# Well Records for Artificial Penetration #1 Cheney Ranch #1

(API No. 1900190)

## STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS

## REPORT OF WELL ABANDONMENT

·	Coalinga	, California,	May 26	, 19	52
					<b>*</b> .
Mr Philip C Clark A Jergins Oil Company Rts 5 Box 475 Bakersfield Californ	-				
Dear Sir					
Your report of aban	donment of Well I	No. "Cheney Ranc	:h" 1		;
Sec. 29 , T. 14 3., R	. <u>13 Е., М.Д.В</u> .	& M.,	y (min man)	oil fi	ield,
Fresno	County, da	ted February 1	2, 1952	, has b	een
examined in conjunction	with records filed	in this office.		•	
A review of the rep	orts and records sh	ows that the requi	rements of th	is Divis	ion,
which are based on all info	•	*		. •	,
		•		•	
		The second secon	AND THE ST. PRINTS	The property of the same	
		THE PART OF STREET	ing the second	Zago et	res'
	OR	5-2752 2/p			
GWH:ef	· <i>C</i>	Control of the contro	Марину дван настояния объекты по по по процесс	कार्यक्रमेत् १०० (सम्बद्धाः)	ru)
cc: Company Long E		R. D. Bush			
		State Oil and Gas Supervisor			
		O	) N.		
		By $G$ .	1. Lei	rd	
		••	Дери	ty Supervise	D7

Date

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#### SUBMIT IN DUPLICATE

STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

Operator.	Jergins Oil Company	Field	(Panoche Creek Area)
Well No	"Cheney Ranch" 1	, Sec. <b>29</b> , T. <b>1</b> 4	S., R. 13 E., M. D. B. & M.
	•	c: 1 /	AHUMP BING.
		Signed Phi	lip C. Clark
Date	February 12, 1952	Title	Acting Agent
			(President, Secretary or Agent)
operations a drilled to cem out of casing,	t the well, together with the dates thereof, prenting or landing depth of casings, number of sack	or to the first production. I s of cement used in the plugging which hard cement encountered	s form in reporting the history of all important nelude in your report such information as size of hole , number of sacks or number of feet of cement drilled I. If the well was dynamited, give date, size, position sed, position and results of pumping or bailing.
928.4TD	Intention to abandon dated	July 16, 1942 not	approved.
	Filed supplementary notice.		
	A. L. Scott, Contractor, ri	gged mast and sand	lline.
	Well blew gas for 45 minute	s thru 1/2" valve	making condensate at rate
	of 14 gallons per hour. Well blew out approximately	30 bbls. of casin	ng head gasoline when uncapped.
:	Ran in 125 bbls. of water t	o fill 8-5/8" casi	ng.
	Pumped in 25 bbls. of water		20 bbls. of condensate.
	Bailed sand and shale 6624- Bailed sand, shale and some		casing bad at 6721.
	Bailed sand and shale 6680-		
-	Bailed sand 6683-6720.		
P.6480	Dumped 23 sacks of cement in Tested location and hardness		
L COMPO	and Gas.	or compare bank	
	Burned gasoline in sump. (		casing full.
	Scott moved in hydraulic ja Found gas leaking by plug v		had
	Measured in well to 5100 fe		>cu1.
P.5037	McCullough set Type B bridg	ging plug in $8-5/8$	casing at 5037.
	Dumped 6 sacks of cement wi		
	"Still making gas" after lo Dumped 14 sacks of construct		with 1½ sacks of Cal-Seal;
	replaced head and applied 50	00# pressure with h	
	Shut well valve on head over Found 100# pressure on cash		and compart where
	Dumped 9 sacks of cement wi		
	Replaced head and pressured	well to 100# and	
ארחו פ	Gas pressure still 100#; fo		1026
P.4016	McCullough set second 8-5/8 Pressure still 100#. No. 2		
	Dumped 9 sacks of cement at		
·	Released pressure; found no	cement.	
	Dumped 3 loads of mud follo	owed by 20 sacks of	common cement at 4016
	and repressured well at 150% Standing cemented for 4 day		A STATE OF THE STA
		The property of the second sec	100

HISTORY
Jergins Oil Company
"Cheney Ranch" 1
February 12, 1952

1951

12-11	P.3980	Checked cement plug at 3980.
12		Experienced difficulty with 8-5/8" and 13-3/8" landing base.
		Welder would not cut off head on account of gas.
13		Welder checked gas, cut off head and welded on pulling nipple.
14		Pulled 8-5/8" casing at 3000# with only 2 inch stretch.
		Worked easing at 3000# for $3\frac{1}{2}$ hours increasing stretch to 5 inches
9 2		at 3500#.
15		Worked casing at 4500#.
		Shot 8-5/8" casing at 1600, 1424, 1214, 1050 and 908. Pulled 24
		feet at 3750# and 54 feet at 1050#.
17	P.887	Ran plug to stub of 8-5/8" casing.
17	£ *00.1	Dumped 14 sacks of cement in stages on stub of 8-5/8" at 908.
		Pulled 22 good joints of 8-5/8" 36# R3 casing, cutting off joints that would not unscrew.
19		
7.7		Ran bailer to 549 and dumped 19 sacks of construction cement below shoe of 13-3/8".
20		Found cement at 515 and dumped 16 more sacks of construction cement
~\ <i>U</i>		515-503 into 13-3/8" casing.
21	D E03	Tested location and hardness of cement plug at 503 for Division
مكنحت	1 6 70 7	of Oil and Gas.
22		Filled 13-3/8" casing with earth material 503-26 KB.
soso.		Mixed and dumped 8 sacks of cement at 26 filling 13-3/8" to
		bottom of cellar.
		Welded cap on 13-3/8" in cellar some 5 feet below surface of
		ground and abandoned well 12-22-51.
		Se and the contraction of the second

PCC/jwr

#### STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

## Special Report on Operations Witnessed

		No. <b>T</b> 5-5554
Mr. Philip C. Clark	Coalinga,	Calif. December 27, 19 51
Mr. Philip C. Clark  Rte. 5, Box 475, Bakersfield,  Acting Agent for JERGINS OIL COMPA	Calit.	_
<u> </u>		
DEAR SIR:  Operations at your well No. "Cheney Ranch" 1	cac 29 T	14 S. p 13 E. M. D. p . M
Operations at your wen No.	Fresno	County, were witnessed by
G. W. Hunter		representative of the supervisor,
G. W. Hunter on December 21 , 19 51. There was also prese	ent A. L. Scott,	Contractor, and
Casing Record 13-3/8" cem. 5291; 8-5/8"	D. Ainsworth,	Helper.
Casing Record 13-3/8" cem. 529'; 8-5/8" shot 1412', 1204', 1050' and 908', pull	cem. 66/6' W.S.U	Junk (Sidetracked)(1st hole).
6-5/8" liner ld. 6658'-7215', perf. 672	1_6793! 6953-	T.D. 9284! pluced with
7215', bad 6718-6723'. Junk: Sub. and b	it 6720-6723'.	cement 7775-7662'?, 7326-
7215', bad 6718-6723'. Junk: Sub. and b T.D. (present hole) 7215', plugged with	cement 6720-	7191', and 6720-6691'.
6480'. 908'-? and 549-503'.		
The operations were performed for the purpose of Wicement plug placed from 549 to 503 in	tnessing the loc	ation and hardness of a
cement plug placed from 549, to 503, in	the process of	abandonment.
The inspector arrived at the well at 2:00 p.m.	and Mr. Scott	reported:
1. The 8-5/8" casing was shot at 141 908'.	2', 1204', 1050'	and 908° and pulled from
<ol> <li>A total of 14 sacks of cement was casing at 908'.</li> </ol>	dumped in stage	s on the stub of the 8-5/8"
3. On December 19 and 20, 1951, 35 s at 549', filling to 503'.	acks of cement w	as dumped in stages beginning
THE INSPECTOR NOTED that the bailer cousamples of set cement.	ld not be spudde	d below 503' and brought up
The inspection was completed at 3:40 p.	m.	
THE LOCATION AND HARDNESS OF THE CEMENT	PLUG AT 503' AR	S APPROVED.

GWH:ef

Company, Long Beach Mr. A. L. Scott cc:

R. D. BUSH

State Oil and Gas Supervisor

16330 10-49 17,500 @ SPO

#### STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### Special Report on Operations Witnessed

			No.	T >=:	5538
	Coalinga,	Calif	November	16,	1951
M. Philip C. Clark					
Mr. Philip C. Clark Rte. 5, Box 475, Bakersfield,	Calif.				
Acting Agent for JERGINS OIL COMPAN	<u>Y</u> .	-			
DEAR SIR:					
Operations at your well No. "Cheney Ranch" 1	sec 29 т	14 S.	R 13 E.	M.D.	B 87 M
T' 11 *	Fresno		C		. 11
G. V. Hunt	er		ronrecentative	of the	thessed by
on November 14, 19 51. There was also prese	F. A. Jones.	Product	ion Forema	or the s	aupervisor,
on	W. V. David.	Hoist (	Derator.		<del></del>
0: P-113-3/8" cem. 529": 8-5/8"				i)(lst	t hole)
Casing Record 13-3/8" cem. 529'; 8-5/8" W.S.O.; 6-5/8" liner ld. 6658'-7215', pe	rf. 6721'-6793'.	6-5/8	3" liner 6	720'-	71881.
6953'-7215', bad 6718'-6723'. Junk: Sub	and bit		9284', plu		
6720'-6723'. T.D. (present hole) 7215',					
cement 6720'-6480'.			; and 6720		
The operations were performed for the purpose of Wi	tnessing the loc	ation a	and hardnes	ss of	a.
The operations were performed for the purpose of wicement plug placed from 6720' to 6480' i	n the process of	aband	onment.		
Ŧħ&MspectoMahnvedMatYth&Wellatxxxxxxxxxx					
ON NOVEMBER 13, 1951, THE INSPECTOR WAS a.m. AND NOTED:	PRESENT AT THE V	BLL FR	M 9:00 a.1	n. TO	11:00

- The hole was cleaned out to 6720'.
- Two sacks of cement was dumped at 6720'.
- Cementing operations were continuing.

ON NOVEMBER 14, 1951, THE INSPECTOR WAS PRESENT AT THE WELL FROM 9:15 a.m. TO 11:00 a.m. AND MR. JONES REPORTED that on November 13, 1951, a total of 23 sacks of cement was dumped in stages beginning at 6720'.

THE INSPECTOR NOTED THAT the bailer could not be spudded below 6480' and brought up samples of set cement.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 6480' ARE APPROVED.

GMB:ef

Company, Long Beach Mr. A. L. Scott

R. D. BUSH

State Oil and Gas Supervisor

## STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

## REPORT ON PROPOSED OPERATIONS

			140. 7 -5	/24~
	Coalinga,	Calif	Wovember 8.	19 <u>51</u>
MR Philip C. Clark				
Rte. 5, Box 475, Bakersfield,				
Acting Agent for JERGINS OIL COM	PANY			
Dear Sm: Your supplementary proposa	ıl to <u>abandon</u>	Well No	o"Cheney Rancl	h" 1.
Section 29 , T. 14S., R. 13E. , M.D. B. & 1	M.,	Field,	Fresno	County
dated Nov. 5, 1951, received Nov. 8,	19 <u>51</u> , has been exami	ned in conjunction	with records filed	in this office.
Present conditions as shown by the record	ds and the proposal are	as follows:		
THE NOTICE STATES:  "The new conditions are as follow T.D. original hole 9284, plg. w 6-5/8" liner 6720-7188 sid T.D. present hole 7215. 13-3/8" cmt. 529; 8-5/8" cmt. 6676, W.S.O.; 6-5/8" ld. 6658-7215, perf. 672 Junk: Sub and 6-1/2" bit 6720- Standing idle since 1-4-41."	w/cmt. 7775-7662 detracked. 21-6793, 6953-72			
PROPOSAL:  "We now propose  1) To plug top of 6-5/8" lines 2) To pull all 8-5/8" casing p  If from below 1950:  3) To place cement plug in ope  If from above 1950:  4) To cap stub of 8-5/8" casing 5) To plug shoe of 13-3/8" casing 6) To plug 13-3/8" casing at a (All hole not plugged with  DECISION:  THE PROPOSAL IS APPROVED PROVIDED the placing and location and he or on the stub of the 8-5/8" casing at a casing	possible; en hole 1950-185 ng with 40 feet sing with cement surface with 10 h cement to be f D THAT this Divi ardness of the	of cement; 549-509; feet of cementilled with most	ud or surface e notified to	witness

Blanket Bond GGP:ef

cc: Company, Long Beach Mr. A. L. Scott R. D. BUSH

State Oil and Gas Supervisor

Deputy

## STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

## Supplementary Notice

Route 5, Box 475 Bakersfield 6-8187	Bakersfield,	CalifN	ovember 5,	19 <b>51</b>
DIVISION OF OIL AND GAS				
Coalinga,	Calit	f.		
Our notice to you dated	July 16,	, 19 42	, stating our in	tention to
abandon	well No	"Cheney Ranch"	1	
(Drill, deepen, redrill, abandon) Sec. 29, T. 14 S., R. 13 E.				
Sec. 29 , 1. 14 5. , R. 12 15. ,	В. & М			Field,
Fresno	County,	must be amended on acc	count of changed o	r recently
discovered conditions.	·			
The new conditions are as follows:			÷	
T.D. original hole 9284, p 6-5/8" liner 6720-7188 sid		662?, 7326-7191,	6720-6691.	
T.D. present hole 7215. 13-3/8" cmt. 529; 8-5/8" cmt. 6676, W.S.O.; 6-5/8" ld. 6658-7215, perf Junk: Sub and 6-1/2" bit			6723。	
Standing idle since 1-4-41			A STATE OF THE STA	<i>.</i>
We now propose  1) To plug top of 6-5/8" 1	iner with cement	6718-6638;		
2) To pull all 8-5/8" casi	ng possible;	,		
If from below 1950: 3) To place cement plug in	open hole 1950-1	850;		
If from above 1950: 4) To cap stub of 8-5/8" c	asing with 40 fee	t of cement;	•	• `
5) To plug shoe of 13-3/8"	casing with ceme	nt 549-509;		
6) To plug 13-3/8" casing	at surface with 1	O feet of cement	•	
(All hole not plugged	with cement to b	e filled with mu	d or surface	dirt.)
ease give copy of report to: . A. L. Scott, Contractor	<b>J</b>	ergins Oil Compa	ny MMK	

#### Goalinga, Celifornia July 16, 1946

Mr. Harry A. Campbell, Agent Jergins Oil Company c/o Motel M. Rancho Fresno, California

Dear Sir:

Under date of July 16, 1942, you filed a Notice of Intention to Abandon well No. "Chency Ranch" 1, Sec. 29, T. 14 J., R. 15 D., M. D. R. & M., Fresno County. The proposal was not approved by this Division, and our report No. P 5-5868, dated July 28, 1942, outlined the requirements for the abandonment of the well.

In order that our records may be brought to date, I would appreciate a statement as to the present condition and status of the woll, and whether or not any of the outlined work has been done.

Very truly yours

RWWW.

RW: ef

cc: Company, Long Beach

9/3/46 Harry Semplie telephoned of Vicepu from Callenghild + Stated. - Hell is Isles and no work has been done, Will eventually Juston work - nigrantical expressed time.

#### STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

## Report on Proposed Operations

	k			No. P	i-5868
	Coaling	C	alif	July 22	19.42
Mr. Farry A. Compbell					r
Dt. 6, Nor 192, B skerefield,	Calif.				
Agent for TERRITO ON COMPA			_		,
DEAR SIR:					
Yourproposal	to	<u> </u>	Well No	"Choner Ren	<u>o≒                                    </u>
Section 50 , T. 14 S, R. 13 F, HD B. & M.	•9	Fi	eld,	Trour	County,
dated July 15 19 42, received July 22 19	9.42, has been e	examined in co	njunction wi	th records filed i	n this office.
Present conditions as shown by the records					
RECORDS IN ADDITION TO THOSE SHOWN I T.D. original hole 9224', plugged and 6 720'-6691'. 6-5/8" liner s T.D. present hole 7215'. The well has produced only small	l with cemen sidetracked	t, with & 67201-7180	) secks a )' in ori	ginal hole.	
The present condition of the well. 13-3/8" comented at 529'.  2. 8-5/8" comented at 569'.  3. 6-5/8" liner 5358' to 7215'.  4. Liner kinked at 5718' to 6723  5. Well capped with bull plug an Shut in pressure 900%."	Carforetic Ib ditk •V	us 7215* - arond et.	bit and	<b>sub</b> at 6720	5721*. ±.
PROPOSAL:  "The proposed work is as follows:  1. Spot weld bull plug and lock fence around celler."	velve, move	out derri	ek and r	acks, build	tight
DECISION: This Division cannot consider the merely by capping it at the surfa YOUR PROPOSAL IS THEREFORE NOT AP	Co.	t of a wel	l with 9	00/ skut-in	pressure
The well may be abandoned, however  1. All perforations shall be plu the top of the 6-5/8" liner.  2. In case the well cannot be clu cement from 6718" to about 56  3. All hole not plugged with cam 4. The well shall be securely ca	aged with c samed out b 30'. ont shall b	ement and elow 6712* e filled w	, it sho	uld be plug	god with
No bond required.					
EJE:v ce Company, Long Beach RDBush		Oil and Gas Supe			Deputy

## STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin

				I	ong Beac	h	Cal	Jul	у 16		1942	2_
Mr.	E	. J. K	aplow									
		Deputy S	tate Oil and Gas	Supervisor								
	* •		•	Coa	Linga		Cal					
DEAL	r Sir:											
101011		complianc	e with Section	16. Chapte	r 718. Statutes	of 1915.	as amende	d. notic	e is here	<b>bv</b> given	that it	is
our i		Ţ.	on well No	-				•				
			M.D. B. &	_					-		•	
10		•	Fresno	•								
		_	_		19_42		alcing wor	K OII LIIC			Q	ау
01			condition of the									
		_										
	1.		8/8" cemen									
	2.	8-5/	'8" cement	ed at 6	66761.							
	3.	6-5/ 6793	8" liner to 6721	6658' t	to 7215'.	Perf	oratio	ns 72	15' -	- 6953	31 and	i
	4.	Line sub	r kinked at 6720±	at 6718	3¹ to 672	31. W	ith di	amond	pt.	bit a	nd	
	5. Th	Well e proposed	capped w	ith bul	ll plug a	nd val	ve in in pre	8-5/8 ssure	" sir 900#	nce Ja 4.	ın. 1	<b>,</b> -
	1.	Spot rack	weld bul	l plug tight f	and lock Sence aro	valve und ce	, move llar.	out	derri	.ck ar	ıd.	
				•								
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PK.	CRIV	rivii <u>var</u> FTP		Respec	tfully yours		,					
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LINO	A CAL	Pennia	,		<del></del>		1 Same	of Company	or Operator	101	0	
			то Дериту Ѕтат			By_/H	. A. C	AMPBF	LL. F	ngine	∕	

FILL 1 BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF P. ONLY

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

#### LOG OF OIL OR GAS WELL

Operator_	Jergins	Oil Compa	ny	F	ield Panoc	che Dis	trict			
Well No.	#1			Sec	<b>29</b> , T	. 14s	, R <b>1</b>	še,	MT)	B. & M.
Location	330 S,	330 E N C	or. Sec. 29					_Elevatio	n 392	
and correc	In compliance et record of th	e with the pro	visions of Chapte dition of the wel	er 718. Statutes	of 1915, as an	nended, tl	ne informat	ion given	herewith is a	complete
Date_A	ıgust, 19 <sup>)</sup>	+1				Signed	A. A.	J. (C.)	raigned th	<u> 14.8 I</u> deas,
	L. Campbe: Engineer or Geol	l <b>1</b> ogist)		oCarty Superintendent)		Title	<u>A</u>	gent (Presid	lent, Secretary or	Agent)
Commenc	ed drilling	11-19-39		Completed	drilling 8	8-40		Drilli	ng tools Rot	ke ary
			ged depth				MARKERS		DEP	•
Junk	Diamond Po	oint Bit a	nd Sub.		Bes	e Paleoc	ene		3120_	
6	<b>3</b> 1		· · · · · · · · · · · · · · · · · · ·		Base	e Domer	gine		4590	····
			·		Top	Morene	)		14820	
					2,		le		7800	
Commenc	ced producing	1st Comp	7/9/40 (date)	I	Flowing/gas lif	t/pumpir	ng			
			Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsio		Gas of, per day		Tubing Pressure	C2sing Pressure
		production 24 hrs.	Gas				170		20	300
Pı	roduction aft	erXXX days	<u> -</u>	asing Record	(Present Hole	2)				
ze of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld *	Grade of Casin	Size G Casing	of Hole landed in	Number of Sacks of Cement	Depth of Cementin if through perforation
13-3/8"	529	Swf.		New			1	7章	320	
8-5/8	6676	Swf.		New				2출	350	-
	- Brod	was to the of	elle des					TEST.	of OLAN	GAS
	And Annual Control	Cress Services		oilet.				<b>Q</b>	CEVE	1
		1 0 0 0 0 0	1114 1 is					ঠ	-F 10 134	P.55044.4
<b>S</b>				Perfor	ATIONS				NGA, CALIFF	
Size of Casing	From	То	Size	of Perforations	Numb of Rov		Distance ween Centers		Method of Per	forations
6-5/8	6688 f	6768	ft. <u> </u>	M	6_		6n		Shop	
69	6945 f	7186	ft. 19				5945 80	1		
	f	t.	ft. above li	ner side t			ng now i	n hole		1.1
;.							F 84	1	(11	
6-5/8	7215 f	6953 6 6721		n hole bad		5 99	611	d = 12	Shop	· · · · · · · · · · · · · · · · · · ·

Date

11-19-39

11-19-39

11-22-39

11-26-39

11-27-39

11-28-39

3-12-40

3-14-40

3-22-40

3-23-40

3-24-40

Top cement 7187.

#### SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### History of Oil or Gas Well

OPERATOR Jergins Oil Company		Field	Panoch	e Ar	<b>ea</b> .		
Well No. Cheney Ranch #1	_, Sec	<b>9</b> , T.	148	, R.	138	, <u>MD</u>	B. & M.
		Signed_					
Date August 14, 1941		Т	itle		(	President, Secretar	ry or Agent)
It is of the greatest importance to have a complet operations at the well, together with the dates thereof, pr drilled to cementing or landing depth of casings, number of sack out of casing, depth at which cement plugs started, and depth a and number of shots. If plugs or bridges were put in to test for	ior to the fir is of cement u t which hard	st production sed in the place concept contract in the place contract contract in the contract	on. Include ugging, numl untered. If	in you ber of sa the wel	r report such icks or numl l was dynam nd results of	n information a per of feet of o ited, give date.	es size of hole cement drilled size, position
Nove	mber 19	to July	10			CEIVE	Marie .
Spudded in with retary tools.						P 18 194	
Twisted off kelley at depth of  Cemented 13-3/8" casing at 529"						GA, CALIFE	
Twisted off pin at top of drill (8"), Hughes 124" rock bit and Took hold of fish at about 3:00 points. Started pumping in cir	reamer :	in hole. ith soci	. Twist ket, but	ted o	ff at 1	10:00 p.n	0.⊕
Pumped in 185 barrels oil. No loose at 4:00 a.m. changed mud.	circula	tion; o	il went	awaj			ish came
Drilled and cored to 7580. 12	hole	to 732	ļ₁; 8臺Ⅱ	from	7324-7	7586.	
Cemented 8-5/8" at 6676' with 3 Final pressure 750#.	550 sacki	Victor	r high	<b>te</b> mpe	rature	oil well	l cement.
Drilled out with light drill pipe for 3 minutes before drilling of Drilled cement to 6681.							
Ran Johnson formation packer wi Valve open 9:29 a.m. Fair puff Found water 25 above trip valv pipe and drill collar. Water s (bottom 6704. Treated mud with	for 20 ye and 4 shut off	second of g	s. Brol	ke pa ium r	icker a	t 10:29 a	.m. f drill

Wall-scraped 121 hole 7195-7324: fair high-gravity oil showing while wall scraping.

Pumped in 100 sacks Victor high temperature oil well cement through drill pipe hanging at 7360. Final pressure 700%. Pulled 4 joints and single and circulated.

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### History of Oil or Gas Well

OPERATOR Jergins Oil Company	Field Panoche Area
Well No. Cheney Ranch #1	, Sec29, T14S, R13E,MDB. & M.
	Signed
Date	Title(President, Secretary or Agent)
operations at the well, together with the dates thereof, pr drilled to cementing or landing depth of casings, number of sack	te history of the well. Use this form in reporting the history of all important rior to the first production. Include in your report such information as size of hole ks of cement used in the plugging, number of sacks or number of feet of cement drilled at which had come to require the first the result of the company of

and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

3-27-40

Date

Johnson formation test 6676-7187. Packer 6669: 3/8" bean; tail piece 6693: no cushion. Valve open 10:15 a.m. Good steady air blow for 14. Gas to surface at 10:29. Intermittent pulsating gas blow to 1:05 p.m. Estimated at 50,000-100,000 cubic feet of moderately wet (2 g.p.m.) gas. Actually 1.88. Closed valve 1:05-1:28; built up 25#. Opened valve 1:28-1:39. Blew down fast. Closed valve 1:39-2:00; built up 25#. Opened valve 2:00-2:40, gas heading. Closed valve 2:40-3:03, built up 25#. Opened valve 3:03-3:19. Closed valve 3:19-3:46, built up 50#. Opened valve 3:46-4:15. Broke packer 4:25 p.m. Pulled pipe. 14 stands plastered with 4 ring heavy gassy mud. Net rise 2640. of mud, thin at top becoming heavy and somewhat gas cut in lower 13 stands. 1st and 3rd stands were very gassy and a good deal of mud blew out of pipe. Bean was open. No water. Temperature 162°. Pressure below bean when valve opened 1150#. Pressure below bean when valve closed 1900#.

3-29-40

Scraped 122" hole 6681-7187 including cement 6681-6704.

3-30-40

Ran packer on 21 tubing; packer set at 6626' with skeeter bill to 6669'. Started swabbing 9:20 a.m. Swabbed intermittently till noon March 31st.

3-31-40

Lowering fluid to about 4000. Bridging in tubing. Well made occasional blows of mud and small gas. Found fluid at 400 (1st time it had raised appreciably) at 11:00 a.m. Connected up head. Well built up to 700# at 1:00 p.m. Opened valve at 3:06 p.m. Blew down to 0# in 1 hour. Bridged again in tubing. Knocked out bridge in tubing and ran sinker bar to bettom. Well made one good blow in morning; smell gas in afternoon; none in late afternoon.

4-1-40

-2-40

Broke packer at 1:00 a.m.

4-3-40

Cleaned out. Found 8: medium hard bridge 6705-13: (took 5 points weight); hard bridge (took all weight of pipe) 6716-21. Ditch very gassy with strong colors oil after returns from bottom below this bridge. Mudded off fairly quickly with 73# mud. Medium bridge 6735-47. Bridges appeared to be shale. Ditch very gassy while cleaning out below 6950. Mudded off fairly quickly with 73# mud. Drilled out cement 7187-7363 with  $8\frac{1}{2}$  bit. Wall scraped cement out of hole to 124 from 7187-7324: Treated mud with Sementor. AVERT OF OIL AND GAS

4-5-40

Cleaned out to 75801.

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4-6-40 Began coring ahead.

MALINGA, CALIFERNIA

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### History of Oil or Gas Well

OPERATOR Jergins 011 Company	Fier	Danoch	e Area		
Well No. Cheney Ranch #1 , s	Sec29	, T <u>1<sup>1</sup>48</u>	, R <b>1</b> 38	, <u>MD</u>	B. & M.
	Si	gned			
Date August 14, 1941		Title			
It is of the greatest importance to have a complete h operations at the well, together with the dates thereof, prior drilled to cementing or landing depth of casings, number of sacks of out of casing, depth at which cement plugs started, and depth at w	to the first profession to the first profession to the comment used in	oduction. Includ the plugging, nun	m in reporting the e in your report such ther of sacks or numb	information as	l important s size of hole ement drilled

Date

4-26-40

J.F.T. 8320-8407; Total depth 8407. Packer 8320; 2" bean; 21; tail piece; 980; water cushion. Valve opened 3:09 a.m. Open 48 minutes. Good steady air blow for 26 minutes; good intermittent air blow next 22 minutes. Packer stuck but was jarred loose at 3:57 a.m. Net rise (excluding mud that came in when packer was jarred loose) 3036. Details of net rise:

and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

I stand oil-spotted muddy water with smell gas.

1 stand medium mud.

4 stands slightly muddy water.

282 stands salty water, becoming warm and more salty toward bottom.

Valve leaked during jarring on packer and bottom 36 stands were filled with heavy

Pressure rose from 950# to 1300# during time valve opened. Temperature 2220. Left 1' of packer rings in hole. Drilled up.

Cored to 89691.

TYPISH OF OIL AND GAS RECEIVED SEP 18 1941

Cleaned out and began coring shead.

MALINGA, CALIFFRANCE

5-8-40 Ran Schlumberger to 8972\* (correct T.D.) Ran Geophone.

> Cored to 9284; (T.B.). 7-5/8" hole to 8964; 5-5/8" from 8964; to 9284. Pumped in 30 sacks Victor high temp. oil well cement through drill pipe hanging at 77751. Ran 7 joints  $2\frac{1}{2}$  on bottom of drill pipe. Top not located.

> Wall scraped hole to  $12\frac{1}{4}$ " from 7210-7324". Pumped in 100 sacks Victor high temp. oil well cement through drill pipe hanging at 7326. Final pressure 710#. Stood 21 hours. Top located at 7250. (Took 5 points) and top would not wash away. Washed out a good deal of unset cement above 72501.

Pumped in 43 sacks Victor h.t.c.w. cement through drill pipe hanging at 724921. Final pressure 1000#. Mud thick and took high pressure to pump down. Took 3 points at 7211 after standing 22 hours. Pumped away a good deal of unset cement above 7244. Mud very thick after washing cement out. Pumped in 39 sacks h.t.o.w. cement at 7245; at noon. Located top at 7191; at 7:00 p.m. (took 6 points.)

Ran in with wall-scraper and found hole caving badly 15' below shoe. Changed mud to 93# antelope P-95; ran bits and wall scrapers up to 122 from May 25-31st. Found hold caving badly at about 6690: and 6850:. Scraped cement which was fairly firm on walls 7166-91. Hard cement at 7090. Mudded off cave and got hole in

5-6-40

5-22-40

5-23-40

5-24-40

5-25-40

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### History of Oil or Gas Well

	OPERATOR Jergins Oil Company	Field Par	noche Area
	Well No. Cheney Ranch #1	, Sec. <u>29</u> , т. <u>1</u> 4 <u>s</u>	B. & M.
		Signed	
· ·	Date August 14, 1941	Title	(President, Secretary or Agent)
Date	It is of the greatest importance to have a con- operations at the well, together with the dates thereo drilled to cementing or landing depth of casings, number of out of casing, depth at which cement plugs started, and de- and number of shots. If plugs or bridges were put in to t	of, prior to the first production. In f sacks of cement used in the plugging, epth at which hard cement encountered	number of sacks or number of feet of cement drilled. If the well was dynamited, give date, size, position
gradient state	good shape.		
6-2-40	Hung 6-5/8" liner at 7188' an tor high temperature oil well Liner details: Top: Liner hanger-3'	d cemented through por cement. 6649 59.10 Top of liner 6594:	rts at 6945; with 80 sacks Vic-
	Next 38.7' Next 82.1' Next 170.7'	Blank perforated, 120 mesh Blank	<b>PECEIVET</b> SEP 18 1941
	Next 3.9° Bottom 243.3° Overall length 541.7°	Baker basket	Dallaca California bull-nosed at bottom.
6-4-40	Ran in with drill pipe. Foun Cleaned out to 6942.	d mushy mud. Contamir	nated cement as high as 6100.
6-5-40	Ran tubing on bottom of drill tions 6687-6769. No circula around blank with 1300#. The	tion could be obtained	sy circulation through perforation of through ports at 6945 and all in back of blank pipe.
6-6/7-40	Ran packer, but it would not below 6100° with 7-5/8° fish	go. Pulled out, scrap tail bit.	ped cement off 8-5/8" casing
6-8/9-40	Ran new $2\frac{1}{2}$ tubing and lane we packer would set, but would no pulled out.	ells packers. First pot hold 600# pump pres	packer would not set; second ssure. Swabbed a little;
6-10/12-4	O Ran 71-2/3 stands and double level at 5200. Fluid rose t	of 2½" tubing without o 4900° and tubing plu	packer and swabbed until fluid agged at 5400. Pulled out.

6-13/14-40

6-14-40

6-17-40

Ran in with drill pipe and 5-5/8" rock bit to drill out baffle. Bit would not go below 6752; hung up from 6712 to 6752. Liner probably crooked.

til 712 stands new tubing and double old tubing in hole and swabbed to 6430 on June 16th. No rise in fluid; well showed only trace of gas. Pulled tubing,

Washed well for 10 hours to 6769: recovering fine chips of shale, cement and cakes

of mud. Weight of colored water at end of washing was 64. Well was clean. Pulled drill pipe. Ran tubing and circulated 12 hours at 6769. Pulled back un-

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

	gins Oil Company	FIE	LDPanoche	Area	
Vell No. Che	ney Ranch #1	, Sec. <b>29</b>	, T14s	, R <b>13E</b>	.,B. & M
•		. 3.	igned		
Date August	14, 1941	<del></del>	Title	(P	resident, Secretary or Agent)
perations at the worlder to cementing out of casing, depth and number of shots.  Cut liner forated.  in core-al where cross	the greatest importance to have all, together with the dates to landing depth of casings, number which cement plugs started, at 15 plugs or bridges were put in the date of th	thereof, prior to the first puber of sacks of cement used in and depth at which hard cemein to test for water, state kind at 25° and recover was crooked; top rations were tigh a well) were tigh	roduction. Include the plugging, number that encountered. If l of material used, po ed 38.7° bla of crook at thy plugged thy plugged	in your report such ber of sacks or numbe the well was dynamic osition and results of ank and 32.4 t about 6697 with cement with small	information as size of holer of feet of cement drille ted, give date, size, positio pumping or bailing.  5. 120 mesh per in well; or a few at about shale chips.
67201. St	70 sacks Victor b cood 7 hours; locs th bit. Top cemen	ated top at 6660.	•		
Eastman s	ingle shot at 6693 and drilled $5\frac{1}{4}$ " let, S. 35° W.	1:-3°20:, S. 16° hole to 6707:. S	W. Oriente urvey instr	d Eastman kn ument went t	uckle joint e 6696' and
ทั	ot at 6725' - 6°5' 	s. 47° w.	t 21 from o	riginal.	
Single sh	ot at 6822 830	; S. 50° W.			
11	대 6851t <b>- 8-3</b> 대 6869t <b>-</b> 8출	/4°: S. 50° W.			
	1	or; S. 50° W. new hole is 28°	from origin	al hole.	isiek of Oil And
At top of	ot at 6956 8030	01; S. 50° W.			PECEIVED
At top of Single sho	ot at 6956' - 8°30 " "7012' - 8°30				SEP 18 1941  PALINGA, CALIFORN

7-7-40

Date

6-18-40

6-20-40

6-27-40

6-28-40

6-29-40

6-30-40

7-1-40

7-2-40

7-4-40

7-5-40

7-6-40

Hung 557.03' of 40#6-5/8" liner, including 100 mesh perforation 7215-6953' and 6793-6721', at 7215'. Top of liner hanger 6658'. Liner details:

FIELD Panoche Area

## STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

## History of Oil or Gas Well

COMPANY Jergins Oil Company

	200 = 200 = 270	Min Dark Willer Change I	lanah #1
Sec	29 , T. 14S , R. 13E	B. & M., Well No. Cheney I	BIIOIL II I
		Signed	
Date	August 14, 1941	Title	President, Secretary or Agent
the wel	for the work and its results. If there were	complete history of the well. Please state in detail the dates any changes made in the casing, state fully, and if any casi been dynamited, give date, size, position, and number of short ition, and results of pumping or bailing.	of redrilling, together with the ng was "sidetracked" or left in
	Bottom 261,82	100 mesh perf.	
	Next 159.90'	Blank	
	Next 72.56*	100 mesh perf.	
	Top 58.14.	Blank	
	Hanger 4.61. Ran 7116.58. of 21 upset	tubing.	
7-8-40	Displaced mud to 7115' wi 4:30 p.m. Swabbed to 190	.th भेभेo barrels Coalinga Nose 30° oi. O'. Well began blowing oil out of l	l. Began swabbing at nole at midnight. It
7-9-40	was necessary to run swab	a few times to keep well flowing.  up 500# on casing, and flowed est. 7	Blowed all oil out of
7-10-40	through 2 bean. Ran swa		
7-10/12-40	Flowing at diminishing ra	to.	
7-12-40	was installed and the pre	pressure rose to 1440 lbs. at which essure was released. Owing to the de in the hole it was decided to acidi	shydrating effect of
7-16-40	Rigged up and started to Started to clean out tubi	pull tubing. Would not come. Placing using acid.	ed acid in casing.
7-17/18/19	Bailing on tubing pulled	loose.	
7-20-40	——————————————————————————————————————	00' badly crooked. Started bailing. y due to caving in cavity.	Found liner bad at
7-21/22-40	Bailing.		
7-23-40	Ran in roller to try to g	get by bad place. Twisted off rolle	Y o
7-24 to 7-31	Fishing.		
8-1-40	Recovered roller. Ran in bit in hole. $6\frac{1}{2}$ fish in	n with diamond point bits and twisten hole.	•
8-2 to 8-5	Fishing.		WEIGH OF OIL AND GA
8-6-40	Ran tubing to 65591.		PECEIVED SEP 18 1941

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## STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### History of Oil or Gas Well

FIELD Panoche Area	Company Jergins Oil Company
Sec. 29 , T. 14S , R. 13E ,	MD B. & M., Well No. Cheney Ranch #1
JCC	Signed W. W. Mane
	Signed 11. 11.
Date August 14, 1941	Title Agent President, Secretary or Agent

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reason for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

8-7-40 Swabbing.
8-8-40 Well flowing.

8-8-40 to
1-4-41 Well flowing intermittently small amount of gas and distillate.

1-4-41 Pulled tubing to use in Cheney #2.

1-4-41 To date well idle. No pressures. Bean on casing open.

## Free In our correct - chess Hanch 41

goestion: 330's and 330's of W.4 corner of Section 29, 14/13

Plevation: 402 d.f. 392 G.

534	561 J	17	5† 1†	Clay, tan (brownish grey) few silty streeks. Silt, tan, soft.
			31	Clay, ten as above with few silty streaks.
			81	Silt, clayey, tan, soft, becoming more silty in bottom 3!
-				Lost. prilled rapidly, probably soft silt or sand.
e				
561	1085 J			Core gap
1085	1105	20	211	Silt, clayey, grey with red splotches, compact to firm.
			21. 6.	Silt, brownish grey, compact.
				Silt, soft, dark brown to grey, micaceous, sendy in top 6%.
			gr	Silt, grey to greenish grey, clayey streaks, compact.
	J		· /	
1105	1325			Core gap
* water	1345 J	<b>+</b> 2.	• 1 •	
1325	1545	lį	141	Gravel, soft, with rounded cobbles as large as 2" in matrix of
				dark grey, coarse grained sand. Cobbles of dark volcanic rock. black chert, jasper, etc.
				Note: It is not known what part of the interval the lift
				recovered came from. Entire 20; was probably soft gravel or
				sando
	. ز			
1345	<b>16</b> 82			Core gap
1652	1702	12	61	Silt, clayey, reddish brown, firm.
			61	Clay, reddish brown, silty streaks, firm with scattered
				pebbles.
	•			Note: Lower part of core drilled sticky and part lost was probably clay.
				paround stays
1702	1982		(	Core gap
•	•		_	
1982	2006	17	5,1	Clay, reddish brown, compact to firm, carbonaceous aplotches.
			61	Silt, brown with green splotches, compact to soft.
			61	Clay, light brown with silty streaks and splotches.
			•	Lost, clay or silt.
2006	ะระชาวไป			
et tratto	5594		(	Core Gap
2294 ~	2314	7	6+	Clay, light brown, silty spots, becoming siltier toward
	٠ 🕳 کر ۱۰۰۰	1	<b>.</b> ,	bottome
			1'	Silt, sandy, bluish brown, splotched, becoming sandier at
			*	base. No cut.
				Lost. Probably soft milt or fine send.
v				
521/2	PM 555			Core gap
ende man 🖅 -	24 81	rn.	74	
VISION	OF GH AM	26 <b>BAS</b>	71 注:	Clay and claystons, light brown, silt streeks as above.
בענו		UNITE	op F TCLA	Silt and siltstone, light brown sandy.

claystone and sandy siltators.

siltatone, light brown to reddish brown, with streaks

SAALINGA, CALIFORNIA

SEP 18 1941

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2	451	ć ć	2507	20	201	Siltstone, clayey, light brown to reddish brown. Lost. Probably same.
3	507	ć	2534	26	15%	Silt and siltatone, light brown, sandy streaks, becoming sandier in last 2:
					5計 21	Sand, loose, gray, medium to coarse grained.  Sand and gravel, loose gray, cobbles as large a
2	534	ž	2616		(	Core (E)
2	616	<b>.</b>	≥6 <sup>1</sup> +2	21	5° 3° 8°	Silt, brown, clayey, soft, grey, splotched. Sand, greyish brown, fine-redium, soft, silty, carbonaceous. Clay and clayatone, reddish brown, sandy with irregular spots
					51	and streaks medium bluish green sand in top 51 (2625-30). Clay and claystone as above but red. Lost, probably as above.
2	642	ä	2745		(	Core gap
2	745	ć	2773	26	21 2호1 3동1	Siltstone, brown. Glay, red, gritty. Siltstone, brown, clayey.
					21 61	Silt, brown, soft, becoming sandy in lower 2. Sand, brown, soft, silty, medium to coarse becoming gravelly in lower 3. No cut.
					101	siltatone and claystone, brown to reddish brown with sendy streaks and spots, becoming more clayey in lower 3:.
2	773	2	2919		i e	Core gap
2	919	8	<b>29</b> 15	8්	21	Siltstone, sandy, reddish brown with scattered coarse sand grains.
					61	Siltatore, sandy, green with abundant fine saud, Serpen inous, splotched with reddish brown, micaccous, clayey streaks. Lost. Probably as above.
2	945	7	3031			Core Sep
3	031	. 3	3057	26	51	Siltatone, sandy, green with hard green limy sandstone at top. Last 6" hard, limy and sandy. No cut.
					91	Siltatone, sandy and sandstone, red, clayey atreaks, verry ill-sorted. No cut in sandy streaks.
				-	81 41	Siltatone and clayatone, grasm. Siltatone and clayatone, red with green streaks.
, j	057	3	5084	6	1. 2.	Send, bluish green, fine grained, soft, shaley. Siltatone, reddish brown, sandy
	مد هدوروس	nange as as	nea" "aan	N ALA	11	Sand, green, soft, gravelly. Febbles up to 3/44.
	THE STATE OF THE S	IM OF C			21	Siltatone, brown, sandy spots, clayey atreaks. Lost. Drilled tough. Probably clayoy siltatone as in
		SEP 1	8 194	4		bottom of core.

3084	3111	27	1721	Siltatone and claystone, mostly soft and crumbles badly, green red and brown, sendy spots. Some streaks of hard green
		÷	31 61	siltatone. gand, green, soft, fine grained, very clayey. Siltatone and clayatone, green and red, sandy spots as in upper 17 of core.
3111	3138	23	111	Claystone and siltatone, mainly red with green streak, sendy
			61 61	streaks as in proceeding core. Siltatone, very sandy, green, hard streaks. Sand, green, massive, very elayey, firm to hard with limy streaks, very ill sorted varying from fine to gravelly with cobbles 3° long in bottom 2°. So ill sorted its permeability sould be low. No out:
				lost 5' probably sand and gravel as it drilled soft with rough spots.
				Probably base of Big Blue in proceeding core at 31221.
3130	3161	18	31	Conglomerate, grey, soft to firm, cobbles up to 2" in coarse sand matrix. No cut.
			61	Siltatone and shale, greenish grey, sandy, becoming sandier toward bottom.
			91	Sand, grey, fine grained, very clayer and silty at top becoming sandier and somewhat coarser toward bettom. No cut in heat sand it from bottom. Lost. Probably sand.
3161	3188	25	2	Shale, silty, dark grey, very carbonaceous, woody fragments. Siltatone, grey to greenish grey, becoming sendy in bottom 1. Carbonaceous, fish scales.
			6•	Conglomerate, compact to firm, grey, cobbles up to 3" in matrix of coarse sand. No cut.
			161	Sand, grey, medium grained, clayey, occasional pebbly streaks and tan cobbles, soft to firm. No cut, looks TET, 2m shale at 3170, greyish green, fairly well bedded, indicated poor dip at 5-10°.
3 <b>1</b> 84	3203	. 12	5 <b>1</b> 71	Sand, grey, compact, medium-grained, clay. No cut. Conglowerate and streaks pebbly sand, grey, firm to hard, sand is medium to coarse, cobbles to 3%. Fragment of large cyster at 3199 and 4% hard limy siltstone shell.  Lost. Probably conglowerate. Cored very rough at base.  Mote: - No cut, no stains, no odor in any of sand 3172-3203*.  This sand seems to be in Marine, near shore and may be Temblor sand, top of which is 3122*.
3203	3227	5	121	Sand, greenish grey, very clayey, fine grained, with thin streaks green shale.
	RECEIVE			conglomerate, very hard, greenish grey, lime comented, with abundant fragments of oyster shells. Cobbles up to 3%.
	SEP 18 194		21211	Siltatone, dark gray, sandy, oyster shell fragments hear top. 5" cobbles in middle. Fish scales. Slickensided plane 45-600.
CO	WINGA, CALIFI	mnia	4"	Sandstone, dark grey, congloweratic, line communication, very hard, with abundant pearly oyster shells and fragments, slightly humed in norther.

burned in coring.

COALINGA, CALIFFRANIA

				Lost. Drilled hard and rough, probably similar to core recovered.
3227	3 <b>2</b> 33			Core gap
3233	3262	5	51	Siltstone, green, irregular to blocky fracture, sendy in upper 21, few white calcareous spots suggestive of badly leached forams. Some pebbles and limy material in sendy top 21 Lost. Probably green siltstone.
3262	3 <b>2</b> 33	26	g <sub>1</sub>	Siltatone, sandy, green with three 1' sandstone streaks, course to pebbly at 3266. Slickensided fracture plane dipping 43° at 3267, calcite on plane, laminae of green shale below plane dip 45°. Irregular. Those dips are probably depositional. 1/4" fragments shale in the sand, bedly cross-
			6+	bedded sand at 3269, dips 300±. Siltatone, green, sandy spots and streaks, irregular to
			31 31 31	blocky fracture, clayey and slickensided at 3274. Siltstone ditto, clayey in bottom liv. slickensided. Siltstone, as above, sandier. Siltstone as above, less sandy.
<i>,</i> *			31	Siltstone as above, becoming clayer in bottom 1. Few slickensided fractures dipping 20° at 3786. Some calcite on planes.  Note:- Few white calcareous spots in core suggestive of badly leached forams.
<b>328</b> 6	3313	S.	31	Siltatone, greenish grey, very sandy with numerous 1/4" sandy ribs dipping 45°, slight cross-bedding. Dips seem fair but may be depositional.
			21 31	Claystone, green, sandy, crumbly, alickensided common. Siltatone, green, sandy, massive, becoming more sandy toward bottom. Few nearly vertical slickensided fracture planes. Lost. Probably sandy siltatons or sand.
3313	3335	<b>2</b> 5	61 1 <u>2</u> 1	Sand, greenish grey to green, very clayey, firm, friable, massive, medium grained with scattered coarse grains. Conglowerate, hard, greenish grey, lime cemented, abundant
			6點1	shell fragments apparently oysters.  Sand, gray, fine to medium, silty, soft to firm, massive, pebbly in top 1. No cut, stains or odor. Looks WFF. Sand would be fair reservoir.
			11:	Siltstone, green, very sandy at top becoming much less sandy toward bottom.
3338	3362	54	19*	Sand, gray, medium to coarse, silty, soft with tan firm streaks, massive, no cut, stains or odor. Would make good reservoir. Looks WFT, with few pebbles in bottom 1.
	· · · · · · · · · · · · · · · · · · ·	_	ķ.	Siltatone, shaley, green, sandy streaks, rather thinly bedded with strong indications of nearly flat dip.
RECI	CIVET	Þ.	11	Sand, dark grey, fine grained, very clayer, firm.
SEP J	8 1941			

reso 5 Jergins	011 Compa	my -	Cheney	Rench #1 Sec. 29, 14/13
3362	<b>33</b> 89	26	21 31 211	Sand, dark grey, compact, fine grained, abundant fish scales and sharks teath.  Sand, greenish grey, fine grained, clayey, massive.  Sand, grey, soft, medium to coarse with firm lime
			ï	cemented sandstone with abundant large oysters at 3369. Carbonacepus at 3366. Firm streaks and abundant oysters 3375. The No cuts, stains or odor. Massive, looks TET, 6" pebbly streak at 3350.
3389	3418	26	261	Sand, grey, soft, medium to coarse, massive, slightly clayer, mushy. Would make very good reservoir. No cut, stains or odor. Looks WET, sand becomes fine grained and much more clayed in bettom 2. Look, probably sand.
3418	3445	27	211	Sand, very clayey, dark grey, fine grained with scattered pebbles, soft, rare skull fragments.
			3년· 31	Siltstone, very sandy, green in upper 2', dark grey in lower 1 Siltstone, dark grey in upper 1', green in lower 1', sendy
			31	grading into 1' greenish grey clayey sand at bottom. Siltatone, green, sandy with 1/2' grey, coarse soft sand at 3429.
		•	61 31	Send, light grey, soft, ressive, coarse grained, looks WET. Sand, somewhat finer and firmer than above, clayey with numerous streaks green clayey beds showing irregular but low dips of 5-15°.
			42. 1	Sand, light grey, coarse, massive, soft, looks WET. Green siltatone grading into:- Dark grey sandy siltatone.
<del>344</del> 5	3472	<b>2</b> §	1,	Siltatone, dark grey, sandy in upper 1's Fish scales. Siltatone, green, very sandy. Lost. Bottom 10' of core drilled rough.
3472	<b>3</b> 499	27	· 基份	send, bluish grey, fine to medium, clayey, massive, compact, with 3ª dark grey sandy siltstone et 3461 and with 3ª dark grey fairly well bedded shale with streaks sand in middle at
			61	3483, mearly flat dip, becoming coarse in last 3' Sand, gray, coarse, soft, massive, looks BMT, becoming public to last 3' sand and sand and sand sand sand sand s
			31	in lower 3' with pebbled up to 1/2" in dismeter. Shale, dark grey, sandy streeks, with 5" coerse sand 1' from bottom and coarse sand in core head at extreme bottom. Dips on shale and silty streaks are nearly flat and appear to be good.
3 <sup>4</sup> 99	3525	26 1	21 10 <u>8</u> 1	Shale, dark gray, very silty with numerous leminae fine gray sand, soft, beds nearly flat-lying. Sand, gray, soft, medium to coarse, massive with 6" shale
=	on of oil a	ID GAS		streak at 3504, not at bottom, pebbly in upper 124. Conglomerate, pebbles and cobbles up to 14 in sand matrix. Sand, gray, soft, coarse with scattered pebbles, no cut.
	ECEIVE SEP 18 194		3 <u>1</u> .	stains or odor.  Shale, hard dark brown, well bedded in upper 2 becoming
	linga, califi		FU	massive with vlocky fracture in lower 1, somewhat platy, silty, brittle. Impression and casts of abundant Leda, fish scales common. Abundant forams (flood). Mould of one large gastropod. The calcaryous shells have been disolved from

gastropod. The calcaruous shells have been disolved from

the large fossils and most of the small ones are badly leached. Dips 2-30 (somewhat irregular but are certainly nearly flat). Some shell fragments present.

			Top of Kreyenhagen group at 35211.
3525	3543		Core gap
3543	3570	15 15*	Shale, silty dark brown, badly fractured and crumbly, slightly brittle. Cores rapidly. Forams, fish scales. Forams include Plectofrondicularia packhardi and poorly preserved Uvigerina cocoansis?? No Leda found. May be Tumey Shale, core has slickensides at 3563.  Lost. Top 19? of core drilled soft and was made in 45.  next 6. took 2 hours. Bottom 2. was soft and wad drilled in 10. Probably shale.
3570	3597	27 271	Shale, silty, dark brown, fairly hard with soft almost punky streaks, fairly well bedded, blocky fracture but with irregular fractures and crumbly 6-5' from top and 6' from bottom. Very abundant forams mostly Plectfronducularia packhardi, a few Modosaria, some coiled forms and possibly Uvigerina cocoansis. Large Pelecypod at 3582'. Gas escaping from fractures in the shale. Good dips at 3588 of 80 on greyish brown silty laminations. No cut from silty streaks.
3597	3624	<b>1</b> 5 <b>1</b> 5*	Siltatone, hard, dark brown, blocky to irregular fracture, not well bedded, few slickensides, abundant forams, mostly Plectofrondicularia packerdi becoming harder and siltier in lower 9. Gas was escaping from core when pulled. It was strong enough to be heard and could be smelled. Lost. Probably siltatone, but may be sandy.
3624	3647	15 15+	Siltstone, hard, dark brown, massive, very abundant forams including Plectofrondicularia packardi, Nodosaria, Uvigerina cocoansis? and others. Blocky fractures at angles of 5-50 suggest dip. Core gave good gas flame from lighted match at any embedded barrel before core was removed and gas bubbled through mud fairly strongly after core was removed. Becomes slightly better bedded and brittle in lower 30. Pecten interradiatus?? at 36410.  Lost. Bottom 40 of core drilled very rough. Probably hard shale.
3647	3669	22 11%	Shale, hard, dark brown, fairly well bedded, brittle. This

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Skale, hard, dark brown, fairly wall bedded, brittle. This was dug out of top of core barrel in order to insert the rubber. Abundant forams. Fish scales. Middle part of core could not be extracted under 1000# pumppressure. Probably hard shale.

Shale, silty, hard, dark brown, not well bedded, elightly brittle. Abundant forems, including plectofrondicularia packardi, Uvigerina cocoensis? and others. Fish scales. No gas noted. Core breaks with blocky fractures at low angles of 5-10°

Jergins		***************************************		<u>y Rench #1</u> Sec. 29, 14/13
3669	3690	0	01	Missed core. Brilled like hard shale and ditch showed hard shale. Core head cut out and circulation of above shoe.
				Probably kept core from entering barrel. Probably shale.
3690	3717	5	51	Shale, dark brown, silty, poorly bedded, slightly brittle,
				fractures at angles of 6-11° roughly along bedding planes. Abundant forams including Placetofrondicularia packardi.
a Second			. :	Uvigering cocoansis? and others, Pecten interrediatus? and
			*	shell fragments, fish scales. Top 3' of core drilled hard,
		¥		lower 24; was soft, Probably all shale.
3717	3739	55	221	Shale, silty, hard, dark brown, poorly bedded, slightly
				brittle, blocky fractures at angles of 2-10°. Abundant forame as in proceeding core. This core is not as well bedded as
	7 · ·			proceeding, and upper part might be described as siltatone,
				with low slickensides in lower 1', possibly due to core barrel
3739	3764	6	1.	Siltstone, sandy bluish grey.
		·	44.	Shale, hard dark brown, poorly bedded with few thin streaks
	•		1 ·	fine grey sand at 3742' and few streaks at 3744'. Sand, grey, fine grained, silty, micaceous, "clean looking".
			# <b>3</b>	typical of Kreyenhagen sand, No cut, smell or odor. Forams
• 1			*** **********************************	ebundant, fish scales. Bottom 21 of core burned. Some gas bubbling from fractures in shale at 3743-44. Blocky fractures
				at angles of 8 suggest dip. It is not know that part of
			*	interval core recovered came from. No change was noticed
. 7.	e de la companya de	4 - 4		during coring.
3764	3789	11	81	Shale, hard, brown, silty, fairly well bedded, slightly brittl
•				fish scales. Abundant forams as in proceding cores, with 6" hard grey fine grained silty sendstone at 3767'.
			31	Shale as above with 6" hard grey fine grained sandstone at
				3774. Very irregular contact between this sand and shale auggests that this may be a sandstone dike. Shale in core
	**		•	head. Gas bubbling from fractures in shale when core was
				pulled. Dips of rather irregular fractures vary from 5-120
				with best 7-80.
3789	3814	25	251	Shele, brown, firm to soft, silty, slightly brittle, fish
				scales. Abundant forams including Plectofrondicularia packardi. Nodosaria, especially toward bottom of core. Common
				Pecten interradiatus. Shale is fairly well bedded and
				fractures at angles of 7-80 which is probably dip. Few thin
**************************************				streaks tight, fine grained sandstone at 3610. Some gas bubbling from fractures in shale. Few slickensided planes at
	en e			30-40°.
<b>381</b> 4	3839	23	231	Shale, brown, firm to soft, silty as proceding core. Pecten
				interradictus and shell fragments. Foram fauna seems to be changing. Some gas in core. Core fractures at angle of 80
	vision of c	HE AN	D GAS	which is probably dip.
	PECE			- 이 이 중에 경기를 되었다. 이 경기적인 이 기가 되었다는 이 기를 모습하는 이 이 시간을 되었다. 그는 사람이 되는 - 이 왕이 이 기가 말았다면 생물을 하는 이 이 사람이 살아왔다. 수 <b>있을 하</b> 게 되었다. 이 이 아 보이지 않다. 이 사람이
	SEP 18	3 1941		공기에 고민주관(학생 기급이 전망 기급하다 현재 경기 기급 내용 다 모양 기급

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3839	3864	15	15•	Shele, brown, soft, milty, slightly brittle as in preceding core. Fish scales. Pecten interredistus and other shell fragments. Forams common but fauna seems to be changing. Increased number of Modosaria, but no Frondicularia seen. Smell gas. Core fractures at angles of 80 which is probably dip.
				Lost. Bottom 10. drilled thought it might be sand so another core was run.
3839	3864			Core gap ??
3564	3888	17	171	Shale, hard, dark brown, silty, fairly well bedded with fractures and few brown silty laminations showing dip of 80. Abundant forems including Plectofrondicularia packardi,
			i,	Nodosaria and others. Pecten. Fish scales, shell fragments. Shale is firmer and more brittle near top, becomes softer toward base. Few bubbles of gas when core was pulled. Top 21 cored very hard and required le brs. A few pieces hard
				shale at top of core may represent this. Fractures at angles of 16° in lower few feet of core but these probably are not dips.
3888	4278		•	Core gap
4278	4304	56	51	Shale, dark brown, silty, soft to firm, orumbly, few fractures at 45°, dip about 8°, fish scales, forams. Becoming siltier toward base.
			7:	Send, grey, compact, soft, massive, fine to medium, no oil stains, cut or odor, Porceity fair though send contains a good deal of fine material.
			3* 5*	Shele, dark brown as above but firmer. Dips 5-50. Sand, grey, compact, soft, massive, fine to medium as above, but a little coarser. No cut, stains or odor.
		•	61	Shale, dark brown, silty, soft, to firm as above. Fish scales, forams. Dip 5-10°, no gas when core was pulled.
4304	4330	26	261	Shale, dark brown, silty, soft and flaky to firm and slightly brittle, crumbly, fairly well bedded, fish scales, forams. Dips somewhat irregular and vary from 6-10° with best about 9°. Small amount of gas.
4330	4355	25	25*	Shale, dark brown, silty, mostly soft, flaky and crumbly but with few firm streaks in upper 10° of core. Well bedded with numerous thin (1/2-1/4") brown limy ribs in upper 20° of core.
				These dip at angles of 5-15° but best dips seem 7-6°. Fish scales, fish teeth and forams. I' soft grey, crumbly shale at 4340°. 3" hard, grey fine sandstone at 4341°. 3" grey shale at 4347°. 6" hard grey fine sandstone (looks like dike) at 4354°.
e <b>i V</b> i	SION OF OIL SEP 18	/Er	gas	Note:- Thin limy ribs and thin streaks gray shale suggest basel Kreyenhagen.

4355	4381	26	73	Shale, dark grey to brown with light brown streaks and lenses.
			19*	Abundant forams. Fish scales. Dip 10-15. Sand, gray with bluish cast, compact to firm, fine to medium,
				micaceous, common angular grey shale fragments in sand.
				Porosity only fair as send is ill served and fairly tight.
		11		Showed small amount of gas when pulled. No cut, stains or odor.
4381	4407	26	31	Sando grey, massive, compecto soft, fine-medium, choked with fine material, porosity poor. No cut. 1/4" asphaltic residue 6" from bottom of sando
		7	461	Shale, dark brown to grey, soft, crumbly, forans.
		: : : : : : : : : : : : : : : : : : :	1151	Sand, grey, massive, fine, choked with fine material, soft, compact, as sand above. Porosity probably fairly low.
	•		71	Shale, dark brown to brownish grey, soft, crumbly and flaky, forams. A few gas bubbles when core was pulled.
<b>\$\$07</b>	4433	21	91	Shalo, dark brown, soft, flaky, well bedded. Silty, fish scales, forems.
			61	Shale, light brown, firm, silty and liny laminations. Two pieces cent for orientation.
			6*	Shale, dark brown as above with 1 light brown, silty laminated shale as above at high. This was sent for orientat-
				ion. Dip 6-9°. Lost, probably shale.
4433	¥4:60	27	7*	Shale, dark brown, somewhat Greyleb, soft, flaky, crumbly, forems.
			64	Sand, green, fire, fine, glaveonitic.
		•	11 6"	Shale, grey, soft, crumbly with thin streak bentonite. Sand, green, firm, fine, glauconitic 4" thick.
			161	Shale, dark grey to dark brown, soft, very crumbly with
		•		several thin (1/4-1/2") streaks bentonite notably at 4445. 4458, 4453 and with he compact, fine, grey sand at 4452, become
		٠	21	greyer toward bottom. Sand, green, fine, firm, glauconitic. Dip 50. No cut, stains
			· -	or odor. Few bubbles of gas.
4460	4486	19	51	shale, grey, silty, soft to firm, micaceous, poorly bedded, some pyrite, looks slightly bentonitic, sandy spots and streeks.
		10.79	61	siltstone, grey, micaceous, clusters and apots of pyrite
				shell fragments at 4469, blocky fractures. Shell fragments common, pelecypods.
			6"	Sand, grey, fine, muchy, soft, some may have been lost as
\$ 1	$x_n = x_{n+1}$			about 2' of core in here is not accounted for.
namena i in an i	DIL AND GAS	<b>}</b>	5*	Siltstone, grey to greenish grey, micaceous, clusters and spots of pyrite, middle part is clayey and might be called
WECE MISMINION	Bir Lines, 134			silty claystone. Mainly blocky fractures but clayey material is irregularly fractured. Discocyclina at 4478.
SEP 1	8 1941		22,	Hard, grey, limy sandy siltstone, in top 1' becoming softer, sandier and greener in lower 1'. Driller reported 6" of
COALINGA.	福行物中			fairly hard 6' from bottom. Few bubbles of gas.

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Jergins	011 Com	pany -	Cheney	Ranch	#1

				## ### ##############################
4486	4511	20	161	sand, grey, soft to compact, fine to medium, silty. Porosity seems only fair, but sand would make much better reservoir than Kreyenhagen sands 4253-4400.
			4.	Siltatone, clayey, grey, shell fragments common, few small pelecypods, shows poor bedding and might be described as silty shale. Gas in fractures in siltatone.  Lost. Probably shale.
4511	4534	17	17*	Siltatone with streaks silty claystone, greyish green to grey, fairly soft and crumbles badly. Mica common. Pyrite spots and cluster. Shell fragments and small pelecypods fairly common, sandy in bottom l'. Lost, probably shale.
4534	4560	26	171	Claystone, silty, green to grey, crumbly to badly fractured at irregular angles. Shell fragments and Discocycline. Few slickensides.
			91	Siltatone, greyish green, blocky fracture, common small pelo cypods and shell fragments. Bottom 3' sandy with 6" grey hard lime comented fine sandstone at 4559, very fossilferous in lower 3'. Some gas in core.
4560	4586	18	41 141	Siltatone, greyish green, clayey streaks becoming sandier toward base, shell fragments, pelecypods, discocyclina. Sand, greyish green, firm to hard, fine grained, silty streaks
				lignite. Very fossiliferous with Turritella, small pelecypods and abundant shell fragments. Grey limy sandstone 4570-75'. Becomes softer in lower 1'0 carbonaceous in lower 6", few scattered pebbles in lower few feet, gas bubbling from core, Sand is tight, poor reservoir rock. Lost bottom 6' probably sand.
4586	4613	5#	24+	Claystone, dark grey, silty with streaks siltatone, shell fragments and small pelecypods. Pyrite and mica fairly common, forams 4" fine grey sand at 4601 and at 4559. Few slickensides. 6" hard, grey, limy siltatone streak "shell" at 4610. Lost. Cored soft, probably sand or soft shale. Some gas in core.
4613	4639	26	261	Claystone, dark gray, silty with streaks siltstone, especially in upper part of core. Crumbly, forems, shell fragments present but scarce, Mica common, pyrite, few slickensides, few small pelecypods, few finely sandy spots. Core is siltier than preceding and might be described as siltstone. Core becomes clayeyer toward base. Small gas in core.
4639	4641			Core gap ?
4641 G	4659 VISION OF OI REXEIT SEP 18	VED		Claystone, dark gray, very badly broken in coring and part may not be true core. Siltstone, dark gray, pyritic, micaceous with 4" streak firm, gray sand 1' from top. Clayey streaks, poorly sorted and badded, common slickensides, finely sandy spots, clayey in bottom 1'.
	Coalinga, Ci	LUFOR	NIAL!	Shale, mushy, very badly fractured into 1/5" fragments, dark grey, gouge-like type, soft, no out.
4.7			100	사고 교육하는 현 전문화 중심 사람들은 어떻게 되었다. 그는 사람들은 그는 사람들은 사람들은 사람들은 사람들은 사람들은 그는 사람들은 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은

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				그리다 가게 가득하다 하다 하다 하는 사람이 사람들이 되는 사람들이 되었다.
4641	4659	(Cont	·a) 8•	Sandstone, soft, light grey, friable, fine, tight, would make poor reservoir rock, limy and harder in bottom few inches. Top 3' of core drilled soft, balance hard with hard shell at
		i.	• • •	bottom. No gas.
4659	4686	26	21	Sandstone, gray, very hard, very fine grained, lime cemented "shell", abundant pyrite.
			24.	Claystone, dark grey, some with greenish cast, with 4" soft grey mushy sand at 4663 (fine-grained) silty streaks.
		•		Considerably fractured with common slickensides, possibly due
				to coring. Some pyrite, 6" soft grey fine mushy sand at 4669.  Becomes siltier and with forams in bottom 6' and streaks
				siltstone with forams in bottom 31.
4686	4712	26	121	Siltstone, derk grey becoming greenish grey, with stresks
· Walker	3 E states	e. W	****	claystone, forems, abundant pyrite, l' lime comented gritty,
4.5		2		very ill sorted sandy siltatone at 4667. Coarse grains of dark rock in siltatone.
		.0	14 *	Siltatone, sandy, dark greenish grey, massive, tight. Sandy
				parts are very fine. Very poor reservoir. Not frieble.  No cut. Gas in lower 10. Becomes a little sandier at base.
4712	4738	26	261	Sandstone, soft, dark grey to greyish green, difficulty
				friable, silty, very fine, carbonaceous, few shell fragments and poorly preserved Mega fossils at 4729 and 4731. Yew
				coarse quarts grains 4719-20. Leaves green line when cut out
		The state of the s		with hatchet. Sand is tight, very poor reservoir, no cut, stains or odor. No gas. Hard shell reported at bottom may
				not have been recovered.
4736	4764	24	241	Sendstone, soft to hard, greenish grey in upper St becoming
				grey below, very fine, silty, tight, some mice and pyrite, slightly friable, massive, no cut, stains or odor. Sand is
				much the same as proceding core but is grey. It is too tight
			·	for reservoir rock. Becomes very herd, limy and pyritie in lower 6"
		*		그 사람들이 얼마를 살아 있다. 이 가게 하는 그는 그들을 가득하는 말라고 하는 것
4764	4790	21	16,	Sandatone, soft, very silty, grey, slightly friable, massive, becoming greener, harder with common pyrite and mice but with
				scattered coarse grains.
			51	Gritty, very hard and lime comented in lower 1. Abundant pyrite. Shell fragments and pelecypods? at 4780-821. Grit
	• * • • • • • • • • • • • • • • • • • •			4781-521, fish scales, cark grey, hard abundant pyrite, mica
				and carbonaceous material in bottom of core. No coarse grains. small gas in core.
				Note: - The grit 4781-82: is very hard and lime cemented. It
	Sivision o	F OIL A	ND GAS	contains shell fragments and common coarse grains and pebbles up to 3/8" of quartz and black chert. No Spiroglyphus could
•		EIVE		be found.
	SEP	1819	41	그리고 이 1호한 시발을 발생하는 중에 가능하는 수 모모를 이 만들은 그리는 지난 이 때 이 아버지는 그 이 이다.

4790	4816	\$	<b>Š</b> i	Sandstone, soft to firm, dark grey, fine grained, silty massive, common clusters pyrite, Mica, fish scales common at 4793', becoming very dark gray and more carbonaceous in lower 3'. Seems a little softer toward bottom but no change in drilling, A few bubbles of gas,
				Note: A characteristic of preceding cores of silty sandstone is that the fine powdered material is green. The cores look green on the outside where rubbed by the barrel and surfaces cut with hatchet are green. The interior fresh surfaces are mostly dark grey to greenish grey.
				Top definite Cretaceous - 46100
4816	442	21	21	Siltatone, fairly soft, finely sandy, dark greyish brown, micaceous, common shell fragments, Leda. Smell rounded fragments and pebbles of hard fine sandatone, limy up to 1",
			21	possible Inogeramus, pearly. Siltatone, sandy, light grey, very hard, line cemented with sbundant shell fragments. Fossiliferous.
			17:	Siltstone, dark grayish brown with purplish dast in places, micaceous, massive, finely sandy, common shell fragments. rounded pebbles of hard, fine brown sandstone, common 4620-21. Areanscous forams common. No cut in sandier streaks. No stains or odor. Poor bedding in few places with cross bedded
				laminations of grey fine sand at 4834 indicating dip of about 80. Smell gas in core.
4842	4868	26	261	Siltatone, dark greyish brown with distinct purple cast, sendy micaceous, massive, sandier than preceding core with few streaks of very silty fine sand. Shell fragments present but uncommon. Fish remains and scales, sandier streaks give no cut, odor or stains. Woody material at 4562: . Smellges in core.
4868	¥89#	26	18:	Siltstone, dark grey with slight brownish cast in places, finely sandy, pyritic, micaceous, sandy spots and streaks. fish scales, forams, chiefly arenaceous. No Mega fossils. Blocky fractures at angles suggesting low dips.
			8*	Sandstone, dark greenish grey to green, hard, fine grained, massive, very abundant pyrite. Few woody fragments, Abundant glauconite, some mica. Green where cut with hatchet, becomes coarser toward base. No gas.
14894	4910	6		Sandstone, very hard, dark greyish green in top 1' as in pre- cading core, grey and lime comented in lower 2', madium to coarse grained at top becoming fine toward base, pyritic, numerous dark grey carbonaceous spots and few woody fragments.
	NOF OIL AN EXELVED EP 18 194	1	3*	No fossils noted, no cut. Sand, light grey, fairly soft, very friable, fine, silty but well sorted, quartzose, no oil stains, odor or cuts. Sand
	IGA, CALIFO			would make fair reservoir as porosity seems fair. No gas. Lost 10. Brilled reported 1: hard shell in middle of core and 12: hard shell at bottom with firm material possibly sand in between.

				이 상용한 한 생각님들 학생들이 다음이 반응되면 하는 것이 없는 사람들이 가지 않는데 없는 것이 없는 사람
4910	4911			Core EED
4911	4929	6	6+	la bard silty sandstone at top. Sand, grey to dark grey, firm
		-	· ·	to hard, fine to medium, friable, very carbonaceous, micaceous,
			•	silty, well sorted, some pyrite, massive. Porosity seems fair.
			*. * * * *	Somewhat coerser and probably more purous streak at 1912, had
•				strong sulphur cdor. Probably WM. Peerly shell frequent at
				4915 Possibly some anauxite present. No gas. No stains, no
				oll odor, no out. Grey sandy siltatone in core catcher.
				Lost 121. Probably sand to 4926. Hard shall 4928-291.
4929	4955	10	3n	Sendstone, grey, very bard, line comented "shell", fine, with
				few shell fragments. This was at top of core but it was
				believed to represent "shell" 4944-471.
	•	. (	61911	Sandstone, gray to dark gray, fairly soft and friable in places
			K Company	Kine, silty, carbonaceous, massive with 2" line cemented "shell"
				at "952. Guartzose.
			31	Sand, fairly soft, grey, fine Grained, silty, micaceous with
	•			abundant pearly shell fragments in lower 1. Sand is massive,
				quartzose and a little coarse at bottom, very friable. No gas,
				cut, stains or odor. Porosity rather low. Baculite 4954.
		•		Drilled very hard 4944-47, soft 4952-551.
4956	4964	9	71	Sandstone, fairly soft, grey to dark grey, fine, silty,
7,400		•	•	massive, slightly friable, carbonaceous, some mica. Poor
		• *		reservoir rock. No gas, cut, stains or odor.
			21	Sandstone, light grey, extremely hard, lime comented, fine,
			•	Cross bedded but suggests fairly low dip.
4964	4990	2	21	Sandstone, light grey, extremely hard, lime cemented, fine to
				medium, micaceous, with poor cross bedded dips varying from
		2		13-18° Few shell fragments 2 pieces of very hard limy fine
	+ <b>4</b> ,			grained sandstone loose above this 2: contains forems which
• ,		7 100		are somewhat suggestive of Siphogenerinoides and fairly
•				common pearly shell fragments. No gen.
•				It is believed the 2' recovered is from 4968-90' core drilled
		٠		hard (5' per hour) and quite uniformly except li! near top
				was softer and bottom seemed harder.
4990	5016	26	3#	Soft grey sand at top. No cut
. , , , ,	بعصر	~~	1,	Sandstone, dark grey, fine, carbonaceous, silty with
			48-	laminations suggesting dip of about 5°
			20	Soft grey sand.
				Conglomerate, grey, fairly soft with rounded pebbles and
			- 45	cobbles of black chert, quartz and dark volcanic rock in
				metrix of grey sand. Possiliferous with pearly shell frag-
	Town man't 's and	* ***	•	ments and one dark grey lustrous shell at least 1" long.
Theigh	of oil an	d gas :	231911	Send, light grey to white, soft, medium, massive, very friable.
QH	CEIVE	1	* * * * * * * * * * * * * * * * * * * *	well sorted, quartzose, porous with 3" lime cemented "shell"
	P 18 194			at 5000%. "Salt and pepper appearance". Sand is obviously
<b>U</b> L	101	•		porous and would make good reservoir. No ges noted in core.
COALIA	<b>VGA, CALIF</b>	AINS		No cut, oil stains or oil odor. Send has wet appearance and
				is probably wer.

GOALINGA, CALIFORNIA

			**	그 아마지 사람들은 잃었다. 과기 얼마를 잃었다. 그를 살았다. 그 그리다는 그리다 그 나는 그리
5016	5042	14	12:	Sand, firm, medium to coarse, grey, porous, sugary, massive. Sandstone, grey, medium, lime comented, very hard. Sand, grey, "pepper and salt" uppearance, soft with few firm
			75.	streaks; messive, medium to coerse, very friable, well sorted, quartzose, porous, carbonaceous streaks and splotches
				especially at 5025-26's odor of sulphur at 5024 and 5030. 2' lime comented and hard at 5023. Dip 50+. Sand is very porous
				and would make excellent reservoir. No gas, cut, stains or odor. Almost certainly MET.  Lost: 12: which was probably sand. Core drilled about same
		j.		except for "shell" 2' from top.
5042	5068	20	201	Sand, grey, soft, medium to coarse, massive, quartzose, well sorted, porous. Would make excellent reservoir. No gas, No cut.
	•			oil stainu or odor.
50 <b>6</b> 8	5077	đ	8*	Sand, grey, firm, very friable, medium to conree, well sorted, messive, quartzose, porous as in preceding core. No gas, cut,
			•	ataina or odor. Looka WET. excellent reservoir.
5077	5087	9	91	Sand, gray, firm, friable, massive, medium to course, porous, as in preceding core with thin (-1-4") strocks dark gray
				carbonaceous, minaceous, fine grained sand in lower 6. Cross bedded in places. No gas, cut, coor or steins.
5087	5097	10	2n 8•	Grey, fine send at top. Very hard, grey, lime comented sendstone "shell".
			2n 91	Sand, grey, firm, medium, massive, as in preceding core. Sand, grey to dark grey, firm to hard, difficulty frieble.
		3 - 1		micaceous, fine with medium streeks, carbonaceous. No gas, cut, stains or odor. Rather poor reservoir. Some cross bedding.
5097	5107	10	101	Saud, dark grey, hard, fine, difficulty friable, massive, very silty, carbonaccous, porosity appears low. Poor reservoir
				No gas, out, stains or odor. Woody material and two small pelecypods and few shell fragments at 5105.
5107	5117	10	101	Sand. Top 1: in sand, dark grey, very silty, micaceous.
	Johnson			carbonaceous, fine, rest of sand is light grey, firm, friable, fine, massive, well sorted, porous. Becomes coarser in lower few feet. No gas, cut, stains or odor. Fair reservoir. Looks
		1. 14		
5117	5127	9	gn g•40	Sandatons, light grey, very hard, lime comented, fine. Sand, light grey, firm, medium, friable, massive, well sorted. quartzose, porous. Becoming coarser toward base. No gas, cut, stains or odor.
5107	CT TT	•	A.	Myisian of an and cac
5127	5137	0	01	Lost. Drilled like sand.  CECEIVED SEP 18 1941
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Page 15 Jergins	A 1	-		Maria Maria	The same	44
at the think is a		Freshill Artist	-	FITTO TO A	114711	47.4

COALINGA CALIFORNIA

5137	5147	10 10	sand, grey, firm becoming soft in bottom 2', medium becoming coarse in bottom 2', massive, friable, well sorted, porous. No gas, cut, stains or odor. Few delcareous fragments suggesting shell fragments at 51%6. Excellent reservoir, looks wer. Head and catcher dropped off inner barrel. Pulled pipe to
			recover head.
			Note:- Recovered 3" hard, grey, fine, elightly limy sandstone from head. This may represent bard streak 5143-45'. If so, bottom 4' of this core was lost and top 4' represents bottom 4' of preceding core. Few small bubbles of gas in sandstone.
5147	5152	4 2*	Sandstone, hard, grey, lime cemented.
		3+10	
5152	5161	9 9	Sand, dark grey, silty, fine, massive, firm, carbonaceous, micaceous as preceding core but not as silty. Drillers report
			smell gas. Few shell fragments at 5160; which are only slightly pearly. No cut, stains, or oder. Poor reservoir. Difficulty
			friable.
5161	5170	6 31	gand, dark grey as in preceding core.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	74.10	4131	
		121	
5170	5179	9 91	Sand, light grey, massive, fine in upper part grading into medium in lower few feet, friable, firm, porous, fair
			reservoir. No cut, stains or odor. No gas.
5179	51.88	6 21	Sandstone, light grey, very hard, medium, lime comented, massive, No fossils.
		4,	Sand, light grey, firm to soft, medium, frieble, messive,
	e e e e e e e e e e e e e e e e e e e		porous. Good reservoir. No gas, cut, steins or odor. Lost 31. no doubt send.
5188	5198	9 9	
			grading into fine darker grey, silty and less friable. Send toward bottom, carbonaceous apots in lower 5'. No gas, cut, stains or odor.
5198	5207	10 10	Send, grey to dark grey, fine, firm, friable near top, difficulty friable in lower few feet, massive carbonaceous and microscous expecially in lower few feet. No gas, cuts, stain
			or odor. Foor reservoir.
5207	5217	4 41	Send, derk grey, fine, firm difficulty friable, massive, very carbonaceous and micaceous, silty. Very poor reservoir.
5217	<b>5226</b>	9 ,,91	Sand, dark grey, fine, firm, massive, silty, corbonaceous, micaceous. Poor reservoir. No gas, out, steins or odor. 4
	SEP 18		limy sandstone at 5220. Shell fragment at 5221.

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	-,40 CB-11-01-0		 ( <del>140), e., e. 1500 y e. 1514 (14. 17. 17. 17.</del>		<del></del>

MALINGA, CALIFFRINIS

Seco	29.	14/13	Ś

cool	- B-7/	-	7.	
5226	5 <b>23</b> 6		7*	Sand, dark grey, very silty, fine, massive, carbonaceous, micaceous. Few shell fragments. No gas, cut, stains or odor.
	*		. *	Siltier than preceding cores. Very poor reservoir.
5236	5245	2	21	Sandstone, light grey, very hard, lime cemented, medium grained. No fossils. It took 1 hr to core top 2°. Then cored next 7° in 1/2 hr. Lost 7° probably send.
5245	5 <b>2</b> 55	0	0#	Lost entire cofe. 3" piece of hard, lime cemented sandstone from preceding core was left in hole and jammed crosswise into head. Drilled like sand, somewhat hard 5247-48.
<b>52</b> 55	5259	0	01	Found 4" piece hard grey, fine lime cemented sandstone in head. At least one small coiled fossil present. Looks like small gastropod. This piece is believed to be from core 97, 5236-45'. Drilled like sandy shale.
5259	5262	2	ā'	Siltatone, sandy, dark grey, carbonaceous, micaceous, much like sand in cores 5217-36°, but much shaleyer, 5255-62° has cored slower and seems more shaly than above. No cut, gas, stains or cdor.
5262	5267	22	2 <u>1</u> 1	Sand, very silty, dark grey, micaceous, fine, carbonaceous. No cut. Not a reservoir. Firm. Few small shell fragments.
5267	5276	5	51	Silt, dark grey, sandy, carbonaceous, micaceous, firm, slightly friable. Similar to dark grey sand in preceding cores but less sandy. Few shell fragments and one small ribbed fossil at 5268.
5276	5285	2	21	Silt, dark grey as above in top few inches. Rest of core is dark grey as above silty sand becoming hard and lime cemented in lower 3".
5285	5288	40	411	Sandstone, grey, fine, very hard, lime cemented.
5288	5297	9	6½1 1½1	Sandstone, grey, very hard, medium, massive except for poor bedding near top, micaceous. Sand, light grey, firm, fine to medium, micaceous.
			1.	Sand, dark gray, very silty, micaceous, fine friable, No gas, out, stains or odor.
				Possible dip for orientation at 52881.
5297	5306	9	91	Silt, derk grey, very sandy, firm, carbonaceous, micaceous, poorly bedded especially in upper 2'. Sandy streaks and spots. Much like preceding dark grey material but not as sandy.
5306	5316	6	61	Silt, dark grey as above, poorly bedded, sandy, with bottom
	isien of Gi	L'AND	3AS	3. sendstone, gray, very hard, fine, massive, lime cemented.
	RECEN	4. 4.5		Tourist : - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
4	SEP18			
				그 등록 말씀들는 현재 화인판매가 있었다. 마리바람하는 그리고 그리고 그리고 그리고 그는 네트트를 쓰였다. 난

age 17 ergine Oil Company - Cheney Ranch #1

Sec. 29, 14/13

5316	5325	9	3† 11	Sand, grey, medium messive, friable, no cut. Sandstone, fine, grey, very hard, lime comented with common shell fragments and one pelecypod.
			51	Sand, dark grey, fine, silty, carbonaceous, micaceous,
5325	5335	3	31	Sand, dark grey, fine.
5335	5344	2	21	gand, dark grey, firm, silty, fine, carbonaceous, micaceous, few shell fragments.
5344	5347	5	51	Sand, dark grey, fine, silty, yew shell fragments.
5347	5349		0	e Core see
5349	5358	9	91	Sand, dark grey, fine, silty, carbonaceous, micaceous. No out, few shell fragments.
5358	5368	9	91	Sand, dark gray, firm, fine, silty, massive, carbonaceous, micaceous with lime cemented very hard "shells" 5362-632 and 5366.
5368 5377 7 6.  WYISION OF OIL AND GAS  RECEIVED  SEP 18 1941				Sand, dark grey, fine, silty, firm, carbonaceous, micaceous as preceding cores but becoming very silty in lower few feet.  Two pearly common pelecypods at 53691. Shell fragments common. Sandstone, grey, very fine, silty, very hard, lime comented. These sands are very tight and of low porosity and would not act as a reservoir.
GOALING 5377	A, CALIFOR 5386	41W 25	2 <u>2</u> 1	Sand, as above but very silty, might be called a sandy silt. Shell fragments common.
5386	5395	ğ	S*	Silt, sandy, firm, dark grey as above but is becoming less sandy. Some shell fragments.
5395	5404	9	9*	Sand, dark grey, very fine, very silty as above. Common shell fragments some of which are pearly. One small Gastropod from 54001.
5404	5411	7	61	Sand, dark grey, very fine, very silty, firm, massive, carbeneceous, micaceous as preceding cores. Few shell fragments Sandstone, grey, fine, very hard, line cemented.
5411	5420	<b>ક</b>	7.	Sandstone, grey, hard, lime cemented. Sand, dark grey, very fine, very silty as in preceding core but some sandier. Few shell fragments.
5420	5430	1	11	Sand, dark grey as above.
5430	5435	4	41	Sand, dark grey, very silty, very fine, as above. Shell fragments and 1/4" ribbed Gastropod at 5431.
5435	5440	12	121	Sand, dark grey as above, very silty. Few shell fragments.
5 <b>4</b> 40	5149	క	5*	Siltatone, top 2" hard, grey, limy, remainder dark grey with slight brownish cast. Lower 2' is sand, massive, carbonaceous.

COALINGA, CALIFORNIA

5440	5443	(cont*	<b>4)</b> 31	micaceous as preceding cores but beds are becoming less sandy. Sandstone, grey, very fine, silty, fery hard lime cemented.
5449	5458	9	9!	Siltatone, dark brownish grey, sandy, somewhat carbonaceous and micaceous but much less so than preceding cores, massive. Few shell fragments of which some are pearly.
5458	5467	4	4.	Siltatone, dark brownish grey, sandy as preceding core.
5467	5476	2 <u>è</u>	211	Siltatone, dark brownish grey as above.
5476	5463	<b>.</b>	1; 1; 1;	Sand, grey, fine, fairly soft, massive, no cut. Siltatone, dark grey, sandy with streaks sand. Sandstone, grey, very hard, fine, lime cemented. Siltatone, dark grey as above, with few sandstone pebbles. Few bubbles of gas. Few shell fragments.
5 <b>483</b>	5 <b>492</b>	2	21	Siltatone, dark brownish grey, finely sandy, massive, carbon-accous, some mice, becomes sandier toward bottom. Fossiliferous in top few inches with elongated slightly curved costate charburned? cylindrical, tapering. Fossil(as illustrated). These are not Siphogenerinoides, might be Baculite. Smell gas. Fossils at 5453.
5492	5499	2	21	Siltatone, sandy, dark brownish grey, massive, micaceous with shell fragments and some fossils including a few elongated costate ones as described from previous core. Only one gas bubble seen.
5499	5504	0	01	No recovery. Drilled hard, may be siltatone as above.
55 <b>04</b>	5510	6	61	Siltatone, dark brownish gray, carbonaceous, micaceous in places, finely sandy, shell fragments fairly common. Elongated ribbed, tapering cylindrical fossil as previously described fairly common. Pearly shell fragments in lower few inches (may be pelecyped). Elocky fracture.
5510	5519	1	Ĭŧ	Siltstone, dark brownish grey as above except not sandy. Shell fragments and elongated, tapering, cylindrical fossil which may be Baculite fairly common.
5519	5524	5	51	Siltstone, dark brownish grey as above. Shell fragments and some elongated, cylindrical, tapering fossil common. At unknown fossil placed at 5523. Siltstone is harder than previously and is also somewhat browner.
5524	55 <b>2</b> 9	5	51	Siltatone, dark brownish grey as above, but seems firmer, carbonaceous and micaceous spots, shell fragments common. Tew Mega fossil impressions. Some elongated, tapering, righed fossil common.  WYSIGN OF OIL AND GAS
55 <b>2</b> 9	55 <b>3</b> 5			core gap (core missing).  CECEIVED  SEP 18 1941

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Jergins	oil	Compa	ny –	Chen	ey R	anch	#1

5535	5540	411	Ļa	Siltatone as above with elongated, tapering fossils.
5540	5546	6	61	Siltatone, dark brownish gray, carbonaceous, micaceous, blocky fractures, finely sandy, streaks with abundant shell fragments and few poorly preserved Mega fossils especially at 5543. Some of shells are pearly. Few elongated, cylindrical fossils as in preceding cores. At least two long shells which seem to be stems of some kind. Some gas in core.
5546	5552	0	01	Lost core. Probably siltatons.
5552	5558	10	41	Siltatone (recovery from previous core).dark brownish grey, fossiliferous especially at 5552:
			61	Siltstone, hard, dark brownish grey, fossilferous with abundant shell fragments and few Maga fossils, carbonaceous,
				micaceous in places, massive. Some fessils are pearly. Flong-gated cylindrical ribbed fessils again present. A good deal of gas, strongest in some time.
55 <b>5</b> 8	55 <b>61</b>	3"	3"	Siltatone, hard, dark grey, massive, micaceous, carbonaceous. Common shell fragments and two small pelecypods. Elongated, cylindrical fossil as above.
5561	5568	7	71	Siltatone, dark brownish grey, hard, massive, micaceous, carbonaceous, tough, more clayey than preceding. Shell frag-
				ments, some of which are pearly are common. Few smapp pelecypods. Elongated, cylindrical fossil as above. One fossil with horny shell at 5565. Fossiliferous. Hard, tough drilling.
5568	5575	6	61	Siltstons, dark brownish grey, very massive and tough, hard, carbonaceous, micaceous, Fossiliferous with abundant shell
				fragments some of which are pearly and a few pelecypods. Some gas in core. Elongated, cylindrical, ribbed, slightly curved, fossil present as in preceding cores.
55 <b>7</b> 5	5595	6n	611	Siltstone as above. May have recovered bottom of preceding core and missed this one entirely.
5585	5590	5	5*	Siltatone, hard, dark brownish grey, massive, cerbonaceous, micaceous. Shell fragments common. Few small Mega fossile. Elongated, ribbed, cylindrical fossil as in preceding cores. small gas in core. A l' limy siltatone rib at 5587°.
5590	5599	9	91	Siltatona as above with sandy spots in lower 2'. Few pearly shell fragments. Not as hard and is somewhat more crumbly than preceding core.
5599	5608	9	91	Siltatone, dark brownish grey, massive, micaceous, carbon- aceous, as preceding core but with spots and thin streaks of fine sand and it is crumbly (slightly). Shell fragments fairly common. 12 limy rib at 5602:
5608	5617	9	91	Siltatone, dark brownish grey with spots fine send. Shell fragments common and few Mega fossils. Less crumbly than preceding core.
				"我们是我们是一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大

page 20 Jergins	Oil Compa	ny -	Cheney	Ranch #1 Sec. 29, 14/13
5617	5626	0	01	Lest core because inner barrel stopped at 920%, evidently on
				piece of last core. Drilled same as preceding but bottom must have been sand.
5626	5629	6	31	Sand, grey, soft to firm, fine, massive, friable, rather tight and percenty is only fair. No gas, cut, stains, or odor. Poor reservoir. Probably represents bottom of preceding core.
			31	Siltatone, dark brownish grey, finely sandy, massive, micaceous carbonaceous as in preceding cores. Sandy spots. Few shell fragments.
5629	5634	5	5*	Siltatone, dark greyish brown, massive, micaceous, carbon- aceous, finely sendy with spots fine sand espechally in upper
				l'. Few shell fragments, some of which are pearly. Few gas bubbles.
5634	5643	9	51	Siltatone, hard, dark greyish brown, micaceous, carbonaceous as above. Few shell fragments Becomes sandy in lower 17 and grades into:-
				Sand, grey, fine, soft to firm, friable, silty, messive, tight, poor reservoir. No cut, stains, odor or gas in sand. 3" lime "shell" at bottom. Few bubbles of gas in shale above sand when core was opened but it was noticeable that no bubbles of gas came out of sand. Some pyrite in sand.
QT SI	5652 OF OIL AND WEIVET P 18 1941 INGA, CALIFS		2: 1: 6:	Sandstone. Light grey, fine, very hard, lime cemented "shell". Sandstone, dark grey, firm, fine. Siltstone, finery sandy especially in top 2', hard, greyish brown to dark brownish grey, micaceous, carbonaceous, common pyrite. Similar to siltstones above but browner and poorly bedded in few places. Pyritized woody fragment at 5651'. Few shell fragments. Silty cross bedded streaks in sandstones at top indicate low dip of 5-10°. Fair amount of gas from lower part of core.
5652	5661	8	<b>5</b> *	Siltstone, dark brownish grey to greyish brown (looks browner when fresh). Clayey, massive, hard, dense, slightly miceceous and carbonaceous, blocky fracture with slight evidence of bedding in places. Few shell fragments. Some gas in core. Woody fragment at 5656. Few sandy spots.
5661	5670	7	ga .	Sand, grey, soft, fine, silty, poor reservoir. No cut, steins or odor.
		•	141	Sandstone, grey, very hard, fine, lime cemented "shell", No fossile.
5670	5678	3 8	?*8#	Siltatone, dark brownish grey, hard, dense, micaceous, carbon- aceous with sandy spots, blocky fractures, becoming sandy in lower 1. Few shell fragments and curved, cylindrical, ribbed fossil previously described.
			ħn	Sand, grey, very fine, very silty, soft. No cut, stains or odor Part of core lost may have been sand as it drilled soft.
5678	5686	6	5•	Siltatone, hard, dark brownish grey to greyish brown, massive, slightly carbonaceous and micaceous, few sandy spots, clayey,
		100		교사는 사람이 하다면 바람이 많아 있다면 하다면 하는 것 같아야 한 사람들이 되었다. 그는 이동안 하는 소문하는 데 나를 함

5678	5686	(Cont	rd)	clusters of pyrite. Few shell fragments and few elongated, curved, ribbed fossil previously noted.
5686	5691	2	121	Siltstone, sandy, dark grey similar to above but sandy. Sandstone, grey, fine, lime cemented, hard.  priller not certain whether he drilled through lime "shell" or not as bit was worn out.
5691	5700	6	22: 32:	Siltstone, hard dark brownish grey, as above becoming sandy in lower 1'. Micaceous, cerbonaceous, some pyrite. Few shell fragments. Forema?? Sand, grey, soft, fine to medium, massive, porous, good reservoir. No gas, cut, stains or odor in sand. Looks with some gas in siltstone.
5700	5706	11	lģ!	Biltstone as above, Small gas in core.
5706	5710	9	5å* 3å*	Siltstone, hard, dense, dark brownish grey, pyritic, micaceous carbonaceous as preceding core but harder, massive. Fossilforous with abundant shell fragments, foreign, elongated tapering ribbed fossils and others. This represents recovery from preceding core 57(1-06'. Some gas. Shale, hard, dark brownish grey, dense, silty, poorly bedded, micaceous, carboraceous, pyritic with hard limy concretions as large as list in diameter in lower 1'. Fossiliferous with common shell fragments, forems and few elongated, ribbed fossils as above except harder and poor bedding developed.
中的	5710 5718 8 8:  WISHIN OF OIL AND GAS  PECEIVED  SEP 18 1941		<b>8</b> *	Shale, hard, dark brownish grey, silty, poorly bedded, dense, micaceous, carbonaceous. Pyritic, slightly more clayey than preceding core. Possiliferous with common shell fragments, forems and small chain type fossil fragments. Pyritized woody material at 5713. Possible poor dip for orientation in cross bedded silty laminations at 5714. No gas. Drilled very slowly. This seems to be same series except it is becoming dlayeyer
miles 1.14	Raphy 19792-17705	#1813E		and poorly bedded and harder. Cores have distinct brownish cast when fresh but become greyer on drying.
5718	5727	2	21	Shele, hard, dense, silty, dark brownish grey, very poorly bedded, micaceous, pyritic, carbonaceous. Fossiliferous with common shell fragments, calcareous forams. 2 small pelecypods and chain type (as illustrated). Some gas. Pyritized woody fragment.
5727	5729	8	81	Siltatone, dark brownish grey, clayey, hard, dense, pyritic, micaceous, carbonaceous as above but becoming sandy in bottom few inches. Fossiliferous as preceding cores. Few concretions up to lar in diameter. Slightly bedded in upper few feet and might be described as shale. Some gas in core. No cut in sandy spots at bottom. Upper 6' of core represents recovery from preceding core.
5729	5738	9	41	Siltatone, clayey, dark brownish grey, hard, pyritic, micaceous, somewhat carbonaceous as preceding. Fossiliferous with common shell fragment, forams and few poorly preserved

<b>572</b> 9	573 <sup>g</sup>	(Cont	d) 51	gastropods. Sand, grey, firm, somewhat friable, massive, silty streaks, well sorted, some mica. No cut in sand. Drilled reports fair gas incore. No stains or odor in sand. Sand is rather tight and porosity is probably only fair. Not a very good reservoir. Sand becomes a little coarser toward bottom of core. Shale at top drilled slowly, sand drilled soft and fast. Gas in core.
573 <b>s</b>	5745	7	71	Sand, grey, firm, somewhat friable, massive, slightly silty in upper few feet, well sorted, fairly tight, some mica and pyrite in core. No cut, stains or odor. Driller reports no gas noted when removed. Only fair reservoir as porosity seems only fair.
5745	5754	<b>1</b> &	1 <del>2</del> ;	Sand, grey, fine, silty, firm, somewhat friable, mica and pyrite common. Sand seems tight and is poor reservoir. No cut, stains or odor and no gas noted. 3" brownish grey siltstone in bottom. Lost 7' probably recovered in next core.
57 <b>5</b> 4	5 <b>7</b> 59	6	61	Siltatone, dark greyish brown, very clayey, hard, crumbly in places, micaceous, carbonaceous, pyrite present. Fossiliferous with common shell fragment and some forems. Probably represents interval 5745-54:. 5754-59! recovered in next core. No gas noted. The shale is becoming browner but is still same series of beds.
5 <b>75</b> 9	5 <b>76</b> 4	10	101	Siltstone and claystone, firm, dark greyish brown, micaceous, carbonaceous, pyritic as above, except quite crumbly. Fossiliferous with some shell fragments and forams. No gas noted.
5764	5773	7	4.	Sand, grey, soft, silty, fine to medium, massive, mica and pyrite present, fairly well sorted. Porosity looks fair. No gas noted, no cut, stains or odor. Fair reservoir. Siltstone, clayey, dark greyish brown, fossiliferous as above, becoming sandy in lower 1.
5773	5780	6	3: 12: 15:	Sand, grey, fine to medium, soft, massive, well sorted, porosity fair and would make a fair reservoir. Looks with sandstone, grey, fine, lime cemented very hard. Siltstone, brownish grey, fossiliferous with shell fragments and forams. No gas noted.
5780 CIVERN C PEX SEP WALING	18 19	NB GAS 117 141	41 11 31	Siltstone, dark brownish grey (looks brown when fresh), very clayey as above. Fossiliferous with shell fragments and forams. Sand, grey, very fine, silty, silty laminations, dip at 200± but may not be good dip.  Siltstone, very clayey as above. Shell fragments and forams, looks browner than above. No gas noted.
5788	5798		01	Undoubtedly hard shale.
5798	5507		87	Shale, silty, hard, dark brownish grey, very poorly bedded but better bedded than preceding cores, pyritic, micaceous, carbonaceous. Looks brown when fresh. Forams, shell fragments. A little gas in core. Hard, grey, fine sand in bottom in. No cut.

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	Jergins	oil co	mpany	- Che	ney n	anch #1

				사람들은 열심을 살았다. 그리는 사람들이 보다 사람들은 불빛으로 내려온 물을 받았다. 다시
5807	5816	<b>.</b>	60	Claystons and siltatone, dark greyish brown, crumbly, poorly bedded in places and might be called a shale, micacecus, carbonaceous. Fossiliferous, with fairly common shell fragments few small pelecypods and common calcareous forams. Hard shale with fine sandy laminations 5609-10, (dip 6°) would be good for orientation. Concretions present.
		•	ģ, 121	Sand, grey, fairly soft, very silty, slightly friable, very fine, tight. No cut or odor. Siltstone and claystone as above, sandy spots. Some gas in core.
5816	5825	1	11	Sand, grey, very fine, very silty, slightly friable, messive,
		٠.		fairly soft. No cut, stains or odor. Carbonaceous streaks.
5825	5827	0	01	Drilled like shale. Made 2' and tried to pick up the and preceding core but could not.
5827	5834	4	21	Shale, silty, brown, crumbly, poorly bedded, micaceous. Fossil- iferous with forems, few small pelecypod fragments and pieces
			11	of large shell len in diameter. Sendstone and shale. Sand is grey and hard becoming limy at bottom. Contact angle 75°. Looks like sandstone dike or large
			1,	concretion. Shele, dark greyish brown, clayey, poorly bedded. Forams. clusters of pyrite.
	. V	¥',		그런 일반 방향하였다. 하는 사람이 되어 그 바늘에 나는 다른 사람들이 되었다.
5834	5841	7	1,	Shale, dark greyish brown, clayey, crumbly, fossiliferous with shell fragments, forems and few small pelecypods.
			1+ 5+	Siltstone, firm, sandy spots. Sand, grey, firm, fine, silty, slightly friable, massive. No cut, stains or odor. Drilled reports some gas from this sand when core was opened. None apparent 1/2 hr after removal from
				barrel. Sand is rather tight, porosity only fair. Sand has a drier appearance than previous sand cores. Silty or carbonaceous laminations at 5637. Dip 200 probably not true dip.
5841	5850	5	31	Sandstone, light grey, very hard, fine, lime cemented, streak of shale filling 60° fracture in bottom 1'.
			l.	Sand, grey, firm, fine, slightly friable, carbonaceous tight. No cut, stains, gas or odor when removed. Porosity low. Silty concretion in sand.
			1,4	Siltatone, sandy, dark greyish brown becoming very sandy at base. No gas in core when removed. A sand of this character
				should retain some odor if it carried any appreciable amount of gus.
5850	5858	5	1*	Challes lab and Aposto compart als benjame and their witch intermedian at a label a
- <del>-</del> .			1,	Shale, hard, dark greyish brown, silty with streeks clay shale, poorly bedded, shell fragments, forems and small Gastropeds. Sand, grey, very fine, very silty and clayey, tough, carbon-
RE	OF OIL AND CEIVED P 18 1941	GAS		aceous, slightly friable. Poor reservoir. Shale, dark greyish brown, clayey with silty streaks, hard, micaceous. Forems and few shell fragments. A 6" streak of fine very silty grey sand at 5852.
	COALINGA, CALIFORNIA			Sand, grey, very fine, very silty, tough as at top of core. Shale, dark greyish brown, silty as above becoming very sendy in lower 1' where it is carbonaceous. Shell fragments, forems.
				도다가 하다는 '42의 100명/161명/141명/141명 전기 보다가 되는 다른 이를 하는 사람들이 있는데 전 10의

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5850	5 <b>6</b> 58 (0	ont d		Poorly bedded. Smell amount of gas bubbiling from core but not enough to sizzle or be heard. We cut, stains or odor in sand. streaks though these sands are tight and should give some odor if they contained much gas. Possible orientation at 5854. (Dip. 90).
5858	5867	9	21 71	Send, grey, hard becoming limy comented in lower 1/2'. Cross bedded, fine, very tight, with thin streaks dark shale. Shale, dark greyish brown, hard, partly clay shale with poor bedding and partly very silty, micaceous as preceding core, shell fragments and forams. Smell gas in core. 6" streak fine
				grey tight sand at 5561' and lower l' of core is sandy. Extreme bottom is shele. No cut or odor in sand streaks.
5867	5876	9	91	Shale, clay, silty spots, dark greyish brown, hard but crumbly, micaceous, fossiliferous, with common calcareous forems, common shell fregments some of which are pearly, few small Gastropods which may be Pleurotoma and Amauropsis and few pelecypod frag-
				ments. Shale is poorly bedded. Drillers report very small amount of gas in cores #182-187 (5867-5910).
5876	5885	9	91	Shale, clay, silty, spots dark grayish brown, crumbly, micaceous, spots of pyrite as above with 1' hard siltatone at 5677'. Siltatone has 1/2" wide sandstone streak dipping across
				core at 700, looks like dike. Fossiliferous with common cal- careous forems, shell fragments and some pearly pelecypod fragments.
5885	5894	2	21	Shale, clay as above with 60 firm silty streak in middle, cel- careous forams and one small pearly pelecypod. Shall fragments.
5894	5897	. 5	51	Shele, clay, silty spots, dark grayish brown, crumbly with few firmer slightly brittle streaks, pyrite and some mice present. Fossiliferous with common calcareous forams, shell fragments and few pelecypods. Shale is poorly bedded.
5897	5905	8	21	Shale as above:
5905	5910	క	81	Shale, silty, hard, dark brownish grey, better bedded than above with blocky fractures, slightly brittle, fractures indicating low dips of 50±, ressiliferous with shell fragments,
				calcareous forems and some pelecypod fragments.
5910	5916	6	61	Shale, hard, dark brownish gray shale, better bedded than pre- ceding cores, fairly brittle with sub parallel to conchoidal fractures. Fossiliferous with common celeareous forams, shell fragments, one large shell and one probable Baculite at 5911'. Sandstone dike cuts bottom 1'. No ges when removed.
5916	5924	4	4.	Shale, hard, dark greyish brown to brownish grey, clayey with

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Shale, hard, dark greyish brown to brownish grey, clayey with ailty streaks, poorly bedded but like preceding core it is better bedded then those above, sub parallel to conchoidal fractures, brittle, compact in upper 2', crumblu in lower 2', micaceous, carbonaceous apots, some pyrite. Fossiliferous with abundant calcareous forame, including elongated ones, looks like form of Nodoseria, few shell fragments. Drillers report no

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5979

5986

5916	59 <b>2</b> 4 (c	ont:	1)	gas in 5916-5934°, very hard, carbonaceous sendstone "shell" in bottom 2°,
5924	5925	5	51	(h) pick up) Shale, dark brownish grey, clayey and somewhat ailty, hard, poorly bedded, crumbly and flaky, slightly brittle. Fossiliferous with common calcareous forams, shell fragments some of which are pearly, 1/8" Gastropod which may be Lunatia.
5925	5934	5	5*	Shale, hard, dark brownish grey as above, poorly bedded with sub parallel fractures indicating 5°± dips in upper 2', crumbly flaky and slightly silty in lower 3'. Fossiliferous as above. Piece of one fossil placed at 5926'. 3" extremely hard dark grey limestone at 5930' in bottom of core. Very dense.
5934	59 <b>3</b> 5	3	31	(2° pick up) Shale as above, very crumbly, forams, fish scales and 1/8° Gastropod as in above core. No gas.
5935	5943	É	81	Shele, hard, dark brownish grey, clayey with silty streaks; very crumbly with conchoidal fractures, very poorly bedded, flaky, micaceous, slightly brittle, as crumbly shales above. Possiliferous with common calcareous forems, fairly common shell fragments. Some pyrite.
5943	5 <b>952</b>	5	31 11	Shale, clay becoming silty in lower 1. hard, dark brownish grey, crumbly, micaceous as above. Forams but less than above, few shell fragments. Limestone concretions at 5745. Siltstone, very sandy, dark grey, micaceous, carbonaceous, massive, becomes a fine tight sand in lower few inches. No cut. Shale, hard, dark brownish grey, crumbly as above.
	5957 SEN OF OIL AN RECEIVED SEP 18 194 ALINGA, CALIFE	1	91	Shale, hard, clay with silty streaks, dark brownish grey, very crumbly, slightly brittle, poorly bedded as above. Fossiliferous with forems but not as many as above, few shell fragments. 2" very hard, dark grey, pyritic, micaceous, carbonaceous, sendy siltstone at extreme bottom. Pyritized woody material in siltstone.
5957	5966	111	1"	Shele, similer to above but more compact and not crumbly. Entire core drilled like shale.
5966	5970	5 <sup>§</sup>	221	Shale as above in top few inches grading into a dark greyish brown, hard, fine, siltstone, micaceous, pyritic, calcareous forems. Few whell fragments.
5970	5976	ŧ	<b>}</b> ∙	Few pieces of hard dark greyish brown crumbly shale at top, then very hard dense dark grey, micaceous, pyritic siltatone. One or two shell fragments and few forems. Entire care drilled very hard and slowly. Clusters of pyrite. No signs of gas.
5976	5979	3	31	Shale, hard, dark brownish grey, better bedded than above with sub parallel to conchoidal fractures, silty, slightly brittle, slightly crumbly but more compact than preceding. Few calearous forage. Pyrite common and some mica.
				지수 없는 경기 사람들에 밝혀지는 맛있다면 가장하면 하다면 하다는 것이 되었다면 하는 것이 가장하는 것이 가입니다. 일반

Shale, hard as above, calcareous forams,

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5979	5986	(Contrd	3g* 6"	Sandstone, hard, grey, fine, line comented, "shell" splotched with shale in upper 2' and with cross bedded thin streaks dark shale in lower 1'; Chert, very hard, brown, contact between chert and underlying
				dark shale with laminae of fine grey sand dips 35°. 2" below is contact between grey sand and dark shale that dips 15°.  Bottom 3" hard dark shale with sandy spots in bottom.
5986	5994	0	01	Lost core,
5994	5995	9	91	Shale, hard, dark brownish grey, poorly bedded, crumbly, brittle, micaceous and pyritic, streaks and clusters, not as silty as preceding and more brittle. Yew calcareous forame.
5995	6004	9	91	Shale, A 6" hard, fine grey cross bedded sandstone 6" from top. Dip 28°. Rest hard, silty, dark brownish grey, poorly
				bedded but mostly breaks with sub paralles fractures, slightly crumbly, brittle, micaceous, calcareous forams, grades through 6" of siltstone into 6" of grey, fine, hard, tight shale, splotched sand in bottom.
6004	6009	<b>1</b> 5	51	2" hard, grey, fine sandstone in contact with shale at angle
3000			-	of 70°. Probable a dike. 2" below this Sand laminations in shale dip 20°. Shale, hard, dark brownish grey, poorly bedded
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		but with sub parallel fractures indicating dip of 5-10°, orumbly and flaky, sligthly brittle, few sandy spots, thin laminations of mica and pyrite. Fish scales. Calcareous forems.
6009	6018	8		6" hard, grey fine lime cemented sandstone at top. Shale, hard, dark brownish grey, poorly bedded, very crumbly and flaky, clayey with silty streaks, micaceous, pyritic with 1/2" hard fine grey sand at 6010, 4" grey hard limy sandstone dipping 35° at 6011 and 1" hard grey fine limy sandstone at 6017 dipping 63°. These are probably dikes. Sandstone streaks contain shell fragments. No forems found in shale. Not brittle as in preceding cores. Driller reports no gas noted.
6018	6027	5	5*	Shale, as above except better bedded, less mica and pyrite and it is slightly brittle. No shell fragments, no forams seen
		AND GAS		with hand lens. No gas. Shale is hard but is crumbly. 6" hard grey. fine cemented sandstone splotched with shale 1' from
	CEIV EP 181	-		bottom and thin sand streak in catchers. Dip at contact of shale and sandstone of 15° No odor, stains or cut in sand
	NGA, CAL			streaks.
6027	6033	9	91	Shale, firm, clay, dark brownish grey (looks browner when fresh)
•				orumbly, poorly bedded with sub parallel to conchoidal fracture slightly brittle. Some mica. No forams noted. No gas.
6033	6037	1	11	Shale, firm clay, dark brownish grey. No forams noted. No gas. balance of core drilled like shale. Slightly sticky.
6037	6042	6	61	(1' pick up) shale, dark brownish grey (browner when fresh). hard clay, poor to fair bedding, very crumbly and disintegrates badly, slightly brittle, silty spots, some mica, spots of pyrite

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603	7 6042 (con	tid)	No shell fragments or forems found. Occasional fish scale.
			Drillers report no gas in cores 209-213 (6037-6070). Thin (1/2") sandstone dike cuts across lower 3' of core at angle of 80°.
604	2 6051	9 91	Shale as above with 4 green, medium, hard glauconitic sand- stone at 6045, and sandstone dike cutting core at angles of 10-60° at 6047-46. Few fish scales in shale. No shell fragments or forams found. Poor contact of glauconitic sandstone and shale dips 13°.
605	6060	g 4:	Shale as above but is more clayey with 1" fine, grey, sand at 6052 and 4" fine, grey hard, friable sand at 6054. No fossils, fish scales.
		4.	Sandstone, firm, fine, grey, massive, slightly frieble in places, tight with 4" very clayey shale at 6058'. No cut, stains or odor.
606	0 6068	0 01	Recovered in next core.
606	<b>.</b> 6070	9 61	Shale, hard, dark brownish grey (looks browner when fresh), poor to fair bedding, very crumbly, slightly brittle, clayey. No fossils found. Few fish scales. Shale is similar to preceding core.
		31	Sandstone, firm, grey, fine, tight, probably dike of shale- sand contact in upper 6". Dips 75-80". Bottom 2" is shale.
607	ro 6079	9 9	Shale as above but seems better bedded, more compacted and less crumbly. Few silty spots. Fine, grey, hard, sandstone dike cuts lower 4: of core nearly vertically. Few bubbles of gas. No fossils found. Brown limy concretion at 6071:.
607	9 6088	9 91	Shale, clay, hard, dense, dark brownish grey to greyish brown, fairly well bedded with sub parallel fractures of 50t, less crumbly than preceding cores but very similar, brittle with 3" sandstone dike cutting top 1' of core at 60° and 6" very hard better bedded brittle dense shale at 6050'. It required 1 hr to drill. A few bubbles of gas.
608	8 6096 VISION OF OIL AND OPECETVED SEP 18 1941 DALINGA, CALIFORN		Shale, clay, hard, dense, dark brownish grey (looks browner when fresh), poorly bedded with sub parallel fractures indicating low dip, crumbly, slightly brittle, slightly soapy and slick, with 2" hard fine, grey, lime cemented sandstone 6" from bottom. Contacts of sand with shale dip 20-25°. Probably a dike. No fessils noted with hand lens. Few fish scales. Drillers report no gas in cores. Some pyrite and mica in shale, some pyritized pin points man represent pyritized diatoms.
609	6 6103 :	10 10	Shale, with 1/4" micaceous, pyritic, silty rib at 6097.
610	3 6111	7	Shale, except more brittle with nearly vertical fractures in top 1° and 1/8° seam of lignite at 610°, and lignitic lamination at 6110. No fossils noted. Few fish scales and teeth.
611	1 6119	9 91	Shale as above except well bedded from 6115-17: and entire core is fairly well bedded. In well bedded part sub paralles
			그가 하기를 기계를 가고를 했다. 그리고 있는 이 사람들이 아이들이 모든 그리고 있다. 그리고 있는데 그리고 있다.

6111	6119 (	Cont'	a)	fractures gives dips from 2-6° with average about 4°. A 1/2° fine grey, pyritic sandatone dike cuts core at angle of 47° at 6117'. Shele has a little more mice and pyrite than above and is brittle. No fossils noted with hand lens.
6119	6123	4	4.	shale, clay, hard, dense, dark brownish grey, (looks browner when fresh) micromicaceous, somewhat pyritic, fairly well bedded 6119-21, well bedded (but not thin bedded) 6121-23, brittle, crumbly in upper 2. Common fish scales. No shell fregments or calcareous forems noted with hand lens but few possible arenaceous forems or small sand spots present. Well bedded shale 6121-23, breaks into biscuits 1-2, long with apparently good dips varying from 1-3, with best about 15.
6123	6132	9	91	Shale, clay, hard, dense, dark brownish grey (looks browner when fresh), micromicaceous, brittle, somewhat slick occasional spots pyrite, well bedded 6123-242 as in preceding core, fairly well bedded in balance of core, crumbly except in top 1', with 2" sandstone dike dipping 30° at 6127' and 6" sandstone dike dipping 30° at bottom. Sandstones are fine, grey hard, silty and tight. Small amounts of dry bituminous? residue at 6124 and 6131'. Pyritized woody fragment at 6125'. No fessils except in upper 12' where there seem to be some arenaceous and possibly a few calcareous forams. Some fish remains. Dips in well bedded part very from 1-3° with best ones about 2°
6132	6141	9	91	Shale, clay, as above, well bedded 6133-35, fairly well bedded in belance of core. Dips as high as 6° but average is about 2°. Shale is slightly crumbly but is becoming more compact. Fish scales and teeth, but no calcareous forams found with hand lens. Some erenaceous forams. A 3" fine, hard grey, sandstone dike at 6133. No cut in sandstone.
6141	6146	1ģ	13,	Shale, clay as above but more compact. The shale frectures as separates into fairly large fragments but is not crumbly. Fish remains but no forams found. Spots of pyrite.
6146	6149	0	0,	Lost core. Drilled very slowly. Probably hard shale.
	6153 SION OF OIL PECETV SEP 18 MALINGA, CA	AND ( ET) 1941		Shale, clay, hard, dense, dark greyish brown to brownish grey (looks browner when fresh), compact but crumbles slightly along fractures into large fragments, well bedded with subparallel to irregular fractures indicating dip of 1-4° (best one about 2°) brittle, micro-micaceous, occasional spots of pyrite. No shell fragments, No forams noted with hand lens. Few fish scales, One or two small apots which are probably bituminous residue.
6153	6162	9	91	Shale as above but distinctly brown (when met) from 6155-72.  Few dark black spots up to 1/2" which are probably bituminous,

residue as in preceding core. Fish scales and teeth some of which are pyritized. More pyrite than in preceding core. Few

ereneceous forems and possible calcereous at 6159:

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6162	6170		<b>6</b> *	Shale as above, brown (when wet), to purple. No dark black bituminous spots noted. Few probable arenaceous and possible calcareous forems. Dips 1-4° with average about 2°. Spots and small clusters of pyrite. Very tough and massive and purple 6166-68°. Driller reports few bubbles gas incore and in ditch. Note:- Shales in preceding cores are more like Moreno as usually described than preceding more crumbly shale.
6170	6179	9	91	Shele as above, distinctly purple when fresh especially 6172-74. Few arenaceous forans. Shale is becoming better bedded. No cas.
6179	6188	9	91	Shale, clay, dark greyish brown (becomes almost grey on drying). hard, dense, slick, fairly brittle, compact but mostly crumbles along frectures into fairly large fragments, slightly silty, well bedded (but not thin bedded), dips irregular from 1-40 withsverage about 20, micro-micaceous, occasional spots pyrite as above. Fish romains common, few spots of pyritized woody material no shell fragments, few arenaceous forams, but no calcareous forams noted with hand lens. One piece contains a spot which may be a poorly preserved Uvigerina.
6155	6197	9	91	Shele es above.
6197	6202	9	91	Shale as above, many more small spots and clusters of pyrite than in preceding cores and core is noticeably heavier. Shale has a purplish cast. Apparently good dips as high as 5° but average is 2-3°.
6202	6206			Core gap (core missing).
6206	6215	6	61	Shale as above. Small (1/16") yellowish-orange spots which have been rather rare in preceding cores are more common in this. Some of these resemble very badly leached forams. Dip seems a little higher, 3-5° with average about 4°.
6215	6222	10	101	Shale as above. Few orange spots. These probably do not rep- resent forang. No gas poted when core was pulled.
6555	6231.	9	91	Shale as above except a little thinner bedded. Through middle of core the shale fractures, sub-parallel to bedding into 1/2-1* biscuite. Dip veries 2-5° with most about 4°. A 1/4° hard grey, fine, tight sandstone dike outs core at angle of
	RECEI SEP 18 COALINGA, (	WEI 3 1941		37° at 6228'. Abundant pyritized forams were found at 6224-25'. Those are slongated (up to 3/4"), straight, cylindrical, tubular, narrow and exterior where it can be seen has numerous fine longitudinal ridges. What remains in interior seems to be numerous small globules. A few calcareous Modosaria were seen,
6231	6238	7		shale, clay, hard, dense, dark brown in upper 3' and lower 12' brownish purple in middle 3', well bedded at top and bottom, tough and massive in middle 3', slick, fairly brittle, compact and not crumbly, micro-micaceous, pyritic with common small spots and clusters, fish remains common, few possible
		100	100	化工作环境 在北海岛中国海峡 的复数有效 医大口类 医抗压液 经收收的 人名特尔 计特别 的复数人物管理 计可读程序 的过去时 医艾特特氏试验 医马克特氏管 经

6231	6238 (	Cont'd	(	arenaceous forams. No shell fragments, no calcareous forams noted with hand lens. Dip 3-5°. Shele is gradually becoming better and more thinly bedded.
6238	6248	10	101	Shale, hard, dark greyish brown, dense, well bedded as above, shale fractures into fairly large fragments more than preceding core but is not crumbly. Fish remains common and few spines similar to those at 62241. Few amenaceous forams and some doubtful calcareous forams. Dips 3-5° (somewhat irregular) with average about 4°.
<b>62</b> 48	6249			
6249	6256			Shale, clay, very hard, dense, slick, dark greyish brown, brittle, well bedded but not thin bedded, micro-micaceous, pyritic with spots and small clusters of pyrite, compact, tough, not crumbly. No shell fragments. Fish remains common. Probable arenaceous forams but no calcareous forams noted with hand lens. Few smallspots of bituminous residue at top of core. Dips 3-5°, average 4°.
6256	6257	3	31	Shale as above. Plugged bit, inner barrel would not seat, had to pull out of hole.
6257	6264	0	01	Drilled like hard slick shale.
6264	6266	0	01	Lost core. Drilled like shale. Recovered few pieces mushy brown Kreyenhagen shale with abundant Plectofrondicularia. This evidently caved and was picked up in core catcher and head.
6266	6271	5	51	Shele, hard, tough, poorly bedded, purplish brown in upper 3th hard, dense, well bedded, dark brownish grey, in lower 2th Fish scales, some of which are pyritized, common clusters and spots of pyrite. No forams.
	ISION OF OIL RECEIV SEP 18 DALINGA, CAL	7E7 1941		Shale, clay, herd, dense, dark greyish brown, slick, well bedded to semi-platy (bedding as thin as 1/4" in places), semi-porcellaneous with bluish cast on exterior where rubbed against core barrel, micro-micaceous, compact but fractures on standing especially in lower 1', fairly brittle. A few very poorly preserved possible forams in lower few inches. These are Siphogenerinoides. No gas.
6274	6280			Shale, clay, hard, dense, dark greyish brown, slick, well bedded, semi-platy fracturing along bedding into pieces as thin as 1/4", semi-porcellaneous with bluish cast on exterior as above. Abundent Siphogenerinoides, occasional Nodosaria, Plectofrondicularia (wide form) and a few coiled forms. pip 4°.
6250	6287	3	<b>3</b> ¹	Shale, similar to above but notably has porcellaneous and becoming slightly crumbly. Siphogenerina present but in much less abundance than preceding core. No gas.

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6287	6292	<b>.</b>	8.	shale, hard, clay, dense, dark greyish brown, well bedded similar to preceding cores but only slightly porcellaneous in top 2' and not at all below. Few Siphogenerina in upper 1'. Common calcareous forams to bottom of core but no Siphos noted on examination when wet below 6281'. Shale is slightly crumbly and exterior is washed and scraped by fluid and catchers rather than glazed as in above core. No gas.
6292	6297	9	91	Shale, clay, hard, dense, greyish brown, well bedded fractured readily on standing and crumbles into fairly small pieces, slightly brittle, slightly porcellaneous in upper l'. Fish scales some of which are pyritized. Common calcareous forums especially in lower part of core, including Siphogenerinoides.
6297	6306	9	9*	Shake as above with abundant calcareous forams including Siphogenerinoides. Note:- 2' of similar shale, but more thinly bedded (as thin as 3/16"), less wrumbly and fairly porcellaneous was recovered under fish tail in drill collars after drilling from 6306-13'. This contains less common forams, including Siphogenerinoides and Nodosaria. It must come from interval 6306-13'.
6306	6425			
6425	6428	2		Shale, clay, hard, dense, dark greyish brown (looks browner when fresh), brittle, well bedded and becoming thin bedded, slightly crumbly end flaky, slightly slick, very similar to shale above 6305. Very abundant calcareous forams including abundant Siphogenerinoides. Dip 40. Fish scales common, some pyrite.
6428	6437	5	<b>51</b>	Shale as above but thin bedded. A brown limy lamination at 6430°, dips 4°. A 1° streak of bluish grey, fine to medium, fairly soft, silty, friable sand is present 1° below limy streak at 6430°. This dips 4° at contact with overlying shale Ne cut, stains or odor. This does not look like a dike but may be. a 1/4-3/4° dike of hard, white, fine limy sandstone cuts core at 34° at 6433. Abundant forams as above.
QI SE	NOFOTIZAND ICETVEP P 18 1941 NGA, CALIFER		91	Shale as above with small (1/2-1" send spots at 6434' and 6435', a dike of sandatone cutting entire side of core at 50° at 6435', and a 1/4" dike cutting at angle of 20° at 6435'; a 1/4" streak of sand at 6440' and a 1/5" streak at 6449'; a spot at 6442'. Abundant forems as above, small brown limy streaks or concretions at 6435'.
6443	6451	6	61	Shale as above but browner and tougher 644448. Forams common but much less abundant and seem mainly Nodosaria rather than Siphos. Becoming "poker-chip" type in streaks.
6451	6459	8	<b>&amp;</b> 1	Shale, clay, hard, dense, dark greyish brown to brownish grey thin bedded, "poker-chip" type, fairly brittle, slightly crumbly and flaky, similar to above. Common calcareous forams including Siphogenerinoides. New grey-blue sand spots 64532-54: and 6457-59', some of which are elongated and may be dikes. No gas noted.
	grande de la companya			,不知识的主义,我们就连续被强强处,连军都将成功的工作。这个首任的,他们也是不是有关,这个首任的,这个人,这个人是这个人,可以不是一个首任的。

6469 6478 9 4. Sandatone, grey, firm, fine, massive, difficulty to a frieble, tight, silty, fairly well sorted, aplotched shale in places, becoming hard, white and lime cement 6472-731. No cut, stains or odor, but a few bubbles of from the sand were noted when core was extracted. Som the sand had a slight sweetish odor but this hay have from the hot mud. Poresity probably low, poor reserved 2. Shale, as in preceding core but more crumbly. Irregul of 2-8°. Forams less common but small ones are present 3. Sandatone, grey as above except few somewhat softer a cuts, stains or odor. Poresity probably a little high shale-sand contact at 6475. dips 24°, and-shale cont 6478. dips 40°, sand is cross bedded 6475-76. with di high as 65°. Bettom 3" of core is hard shale. It is be the sands 6469-78 are dikes.  6478 6487 3 3. Brown shale fragments in fine grey firm sand, some clested 6492 1 1. Shale fragments in fine grey firm sand, some clested 6492 1 1. Shale fragments.  6496 6496 6 6. Brown shale thin bedded, abundant forams throughout.  6497 6598 6507 7 7. As above.  6507 6514 11 5. As above.  6508 6509 9 9. Dark grey shale with occasional thin send (1 atreaks and carbonaceous matter, not well bedded.	with dark  of gas  o thought  been  ir.  ar dips  t.  pots, No  act at
Shale, as in preceding core but more crumbly. Irregul of 2-60. Forers less common but small ones are present sandstone, gray as above except few somewhat softer a cuts, stains or odor. Porosity probably a little high shale-sand contact at 6475 dips 240, sand-shale cont 6475 dips 400, sand is cross bedded 6475-76 with di high as 650. Bottom 3" of core is hard shale. It is be the sands 6469-73 are dikes.  6475 6487 3 3' Brown shale fragments in fine gray firm sand, some cleand. No cut.  6487 6491 0 0' No recovery.  6491 6492 1 1' Shale fragments.  6492 6495 6 6' Brown shale thin bedded, abundant forams throughout.  6498 6507 7 'As above.  6507 6514 11 5' As above.  6507 6514 12 5' As above.  6508 6509 9' Dark gray shale with occasional thin sand (1 atreaks and carbonaceous matter, not well bedded.	ar dips t. pots, No er. act at
the sands 6469-78 are dikes.  6475 6487 3 3' Brown shale fragments in fine grey firm sand, some cleand. No cut.  6487 6491 0 0' No recovery.  6491 6492 1 1' Shale fragments.  6492 6498 6 6' Brown shale thin bedded, abundant forams throughout.  6498 6507 7 7' As above.  6507 6514 11 5' As above.  6507 6523 9 9' Dark grey spalling shale, few forams.	
6487 6491 0 0: No recovery. 6491 6492 1 1: Shale fragments. 6492 6498 6 6: Brown shale thin bedded, abundant forams throughout. 6498 6507 7 7: As above. 6507 6514 11 5: As above. 6: Spalling dark grey shale with occasional thin sand (1 streaks and carbonaceous matter, not well bedded. 6514 6523 9 9: Dark grey spalling shale, few forams.	)llaved
6491 6492 1 1' Shale fragments.  6492 6496 6 6' Brown shale thin bedded, abundant forams throughout.  6498 6507 7 7' As above.  6507 6514 11 5' As abowe.  6' Spalling dark gray shale with occasional thin sand (1 atreaks and carbonaceous matter, not well bedded.  6514 6523 9 9' Dark gray spalling shale, few forams.	)an
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6523 6532 10 9 As above. Organic material scarce.  1 Orey, fine silty sand. Probably part of a dyke.	
6532 6541 0 0' Core missing	
6541 6543 1 1' Grey firm, fine sand.	
6543 6545 Core gap	
6545 6550 2 2. Hard dark greyish brown shale (spalling). 2. fine great top.	y san <b>ë</b>
6550 6555 0 01 No recovery. QUISION OF OIL AND CRECEIVED	
6555 6557 0 0 No recovery. SEP 18 1941	
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6557	6563	8	3.	park grayish brown spalling shale. Organic material scarce.
6563	6572	0	01	No recovery.
6572	6573	10	101	(9' pick up) Dark greyish brown spalling shale. Scarce forams.
6573	6574	0	0*	No recovery.
6574	6579	6	61	Dark brown shale, spalls, abundant forams, few gas bubbles when fresh.
6579	6587	8්	81	Brownish grey shale as above, abundant forame and fish remains
6587	6594	10	101	(3° pick up) Brown shale, more brown than above, more abundance of forams and fish remains. Dips up to 9°, Pecten shaped bi-valve occurs in this core near bottom about 1/2° dismeter.
6594	6596			Core gap
6596	6605	3	31	Brown shale as above, abundant forems and fish remains.
6605	6608	10	101	(7º pick up) Same as above, forame and fish remains not so numerous.
6608	6616	6	61	Brown shale, well bedded non spalling, fairly hard, abundant forams, abundant pyritized organic matter. Hole 3° 5./0W
6616	6625	9	91	Very derk brown spalling shale, fair abquittish remains, no forems noted. Dip flat.
6625	6632	7	7*	As above. SEP 18 1941
6632	6639	6	61	As above, scarce pyritized fish remains, MALINGA, CALIFORNIA
6639	6646	9	91	As above, scarce pyritized fish remains. Dip up to 20.
6646	6654	క	ấŧ.	in As above.
6654	6663	9	61 31	As above.  Brown shale, dark. 3 2m-2m fine bedded grey sand streaks, very hard to friable, appear to be lenticular streaks, not dikes, places bedded parallel to shale. Dips 0-2°. No cut, no odor.  Conssional carbonaceous fragments in sand. Sand dark grey silty to light grey clean.
6663	6672	9	91	park brown shale, thin bedded spalling with scarce pyritized fish remains and no forams noted. Drills hard but spalls when dry.
6672	6681	5	51	Dark brown shale, few thin 1/8" grey sand streaks in bottom tray. 3" of alternate shale and sand, sands lenticular.

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rage 74 Jengins	oll comp	any -	Chone	y Hanch #1 500. 29, 14/13
6661	6685	9	91	(5) pick up) Hard brown well bedded shale, rare fish remine, spalling.
6685	6694	1	11	Hard to medium dark brown shale.
6694	6695	3	3*	(2) pick up) As above. Scarce fish remains. Spalling.
6695	6700	g	1,	Shale as above.
			14	Grey fine carbonaceous silty sand.
			5'	Shale as above.
			1.	Shale as above with 40 fine hard carbonacsous sand.
6700	6708	g	ă.	Park brown spalling shale, scarce fish remains, very gassy.
6708	6716	8	38	Firm to spalling dark brown shale, very gassy.
			51	Grey, dry, firmly friable to medium hard, fine clean sand.
				Rich gas odor. Gas bubbling from sand. This is very good
				looking gas send. No cut with CClu-
6716	6724	7	Ž.	Shale Wision of Oil and Gas
			1.	- B. <b>현실하다.</b> 그 전, 전, 그림 그는 그를 가는 하는 하는 하는 하는 그를 가고 있다. 그는 그는 그는 그는 그를 가고 있다.
			11	Shale RECEIVED
			21	Send Shele SEP 18 1941
			Ī,	Sound Malinga, California
			1,	Shale, all gasey, good cdor
6724	6732	10	4,	Shale, gessy
***			61	Firm, fine grey sand, gassy, flashed at end of barrel. Sand not wet, no cut, good edor but not as good as in core 6708-16.
6732	6741	9	91	Fine grey dry clean gas sand, odor not so prominent.
6741	6748	8	21	Sand as above, fair cfor.
6748	6753	10	10•	Spalling dark brown shale, good gas show, rere thin 1/2:-1" hard calcareous sand streaks. No odor, no cuto
6753	6761	3	31	park brown shale as above with 1/2" streak sand in middle. Dip law.
6761	6764	2	21	Shele as above.
		•		Overbole 71.
6771	6780	9	91	Shale as above with few thin streaks grey sand (thickest is 1 some gas.
6780	6789	9	91	Shale as above with 4" gray, nedium sand at 6787. Some gas.
6789	6798	9	91	Shale as above with 1' sand at 6790 and 1/2' at 6792.
6798	6807	9	61	Shale as above with 6" hard, brown, fine, very silty sand at 6502.
			31	Send, grey, hard, fine to medium, silty, somewhat friable. No odor or cut. Tight, porosity low. No gas.

Page 35 Jergins	O11 Comps	iny -	Cheney	Rench #1 Sec. 29, 14/13
6807	6 <b>81</b> 6	9		sand as above but fine.
OOOL	0010	7	81	Shale as above.
6816	6825	9	21	Shale as above with 6" grey sand at 6517.
			4*	Sandatone, grey, fine, lime cemented in top 21, softer in bottom 11.
			21	Shale as above with thin streeks grey sand.
			11	Sand, hard, grey, medium, no edor.
6825	6834	9	91	Shale as above with thin streaks sand at 6832.
6834	6843	9	9•	Shale as above with thin streaks grey sand at $6834$ and 1' $9RE$ ; sand at $6837$ .
6843	6852	7	7*	Shale as above
6852	6859	g	81	Shale as above and sand, hard, grey, fine in thin streaks and
			<b>y</b>	laminations. No cuts or odor. Several pieces for possible orientation.
6859	6868	9	5+	gand, grey, fine, tight as above with shale lamination.
			3°	Sand, grey, fine, tight with some shale lamination. Shale as above.
6868	6877	9	91	Shale as above.
6877	6886	9	91	Shale as above, carbonaceous material at 65521.
6886	6895	8	8.	Shale as above with two 1/4" streaks grey, fine send and 6" hard, grey, lime comented "shell" at 6892".
6895	6904	. <b>9</b>	9+	Shale as above with several thin (1/4") streeks grey fine sand. Fair gas.
6904	6913	9	9*	Shale as above with few spots and streaks fine, grey, silty sand. Fair gas.
6913	6921	3	31	Shale as above with one 1/2" sand streak cutting core at 20°.
	•			Lower 4" of core drilled harder. Stripped dogs. Few inches of core recovered at bottom seems harder. May be getting into
	ja Line of the state of			harder shale. Fair gas.
6921	6923	· 5	51	Shale, dark brown, slightly silty, clay, fairly soft, flaky,
	Appl 1			few harder streaks well bedded as above. Few fish scales. No
				forams noted. Slightly micaceous, few small dark black splotches which may be carbonaceous or petroleum residue.
				Traces of gas sizzles. No odor. Few spots hard, gray, fine sand.
6923	6932	5	31	Shale as above.
a strate	State from the	à.e	18'	sand, grey, firm but frieble, fine to medium, silty, micaceous rather tight. Porosity probably only fair. Parts in 3/4"
	oi da And Ceivi	28.		biscuits at angle of 25° Gives odor when fresh of gas but
	P 18 1941		21	disappears quickly. Some gas in sand. No out. Poorly sorted. Shale as above.

COALINGA, CALIFORNIA

Page	76		보고 있는 이렇게 되는 사람이 없는 사람들이 되었다.
	ins Oil Company	- Cheney	Rench #1 Sec. 29, 14/13
6932	6939	7 71	Shale as above. A 2" grey sand streak cuts core at 20° at 6934, gas in shele.
6939	6943	2 21	Shale as above, bottom of core gassy.
6943	6948	4 40	Shale as above with 1/4" sand streak cutting core at 20° at 6444. and 4" hard, grey, silty, lime demented sandstone "shell" at 6946. Gas in core, it sizzles, no odor. Rare forums, Nodosaria
6948	6957	1 1,	Shale as above, some gas.
6957	6958	9 1	Shale as above.  Sandatone, fairly hard and is hard to cut with a hatchet, predominately grey but with brown silty streaks, tight, very difficulty friable in places, fine to medium, silty, ill sorted, massive, micaceous. Porosity and permeability probably low and sand would make a rather poor reservoir. No cut or odor, slight traces of gas. A good deal of fine material chokes pores of sand. Top of Sand- 6950:.
6958	6967	3 3'	Sandstone, hard, grey and lime cemented in top 1's grey to brown and silty, very slightly friable, fine, similar to above but harder and tighter. Slight trace of gas, no odor. A 1/4" sandstone dike cut silty sand core at 70° at 6959.
6967	6971 1	0 10.	Sandstone, grey, firm, very slightly friable, slightly sefter than in core 6957-58', fine fairly well sorted but a good deal of fine material chokes pores. Porosity and permeability poor. Poor reservoir. Traces of gas, seem fainter than above No cut or odor. Shely at 6970-71'.
6971	6980	9 91	Sand, grey, fine to very fine, massive, very similar to pre- ceding core, no traces of gas or odor.
6980	6988	51	Sand, grey, very fine as above, but harder and not at all friable. 4" hard grey fine, lime cemented "shell" at bottom. some gas in sand, much more prominent in the "shell" at bottom.
6988	6993	5 51	Shale, firm, dark brown, slightly silty, micaceous, flaky as shale above the sand. Fish scales. Few pearly very small shells. Fair gas.
6993	7001	31 21	Shele as above. Sand, hard, grey, massive, fine to medium, ill sorted, softer than sand above, fairly friable, micseous, slight gas. 3" shale at bottom, no odor.
7001	7003  WISHIN OF OIL AN  RECEIVED  SEP 18 194		Shale, hard, dark brown as above, but harder. Fair gas. This cored very hard, 20 in 3 hours and it is believed this recovery is from previous core rather than this very hard drilling

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			400-1-120-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
7003	7009	5	lļ n	Extremely hard, greenish grey limestone "shell", probably represents very hard drilling 7001-031.
			611	cavings, grey sand and shale, or badly ground up core.
			31	Shale, dark brown, silty, flaky as preceding shale. Common fish remains, small black splotches which are probably petroleum residue, no forams found. Gassy.
			L12#	Sand. grey, hard, fine, slightly frieble, massive, fairly well sorted but there is a good deal of grey powdery material between grains and porosity and permeability seem fairly low, rather tight. Good gasoline odor. No cut, some glauconite in sand. The dark minerals in the sand give it a slight dark grey appearance.
				Top of Sand- 7007'.
7009	7018			gand, grey, fine to medium, fairly friable in top 2' and lower 1', firm to hard, porosity and permeability better, would make fair reservoic. Bubbles of gas, good gasoline odor in top 1½', odor fades out through middle of core where sand is tighter, strong odor in bottom 1', no cut with CCl4. Sand does not taste selty, is dry in appearance and does not look wet.
7018	7026	78	78'	Sand, grey, firm, frieble, fine to medium but some coarser than preceding core with rare scattered coarse grains, becomes fine at bottom, glauconite present, massive, much as preceding core but porosity and permeability seem better. Fair gasoline odor in upper 2' and lower 1' but none detected in Middle of core. No cut with CCla, would make fair
				reservoir, Lost 5' which was probably all sand.
Ĭ.	7035 ON OF OIL A RECEIVE SEP 18 19	<b>TI</b>	Ş.	Sand, grey, fine to medium, frieble, firm as preceding core. the preceding core the precedent was in core head and had to be pounded out, hence was broken. Slight gasoline odow, probably some gas. No cut with CClu, sand is dry and powdery and does not look WET. There is a slight brownish staining on freshly broken
	LINGA, CALI			pieces of this and preceding core. Odor and this staining disappear quickly.
<b>70</b> 35	7041	ş	21	Sand, grey, badly broken in driving from core. Shoe. No odor. fine to medium grained, pulled barrel at 70451, got this 21.
7041	7050	6	61	Note:- Driller thought this cored a little more shaley than preceding. Sand, grey, almost medium grained, firm, friable. Few gas hubbles but no oder. Looks like good recommends and the product of the p
•				bubbles but no odor. Looks like good reservoir, porosity and permeability seem higher.
7050	705\$	2	21	Sand, grey, similar to above, few bubbles of gas, no odor.
705g	7061	9	31	Shale, hard, dark brown, silty, micro-micaceous, well bedded, flaky, fish remains, no forams, gassy.
			61	Sand, gray, fine, firm to hard, (harder than preceding), fairly well sorted, becomes fine at bottom. Porosity and permeability appear lower than preceding especially in bottom 2'. Some glauconite present. Gassy, no odor or cut. Only slightly
	이 모든 말 함께 하게 되는		医皮质性坏疽炎	나의 불가를 하지 않을 수 있었습니다. 이 그런 나는 하는 사람이 있는 것이 얼마나 하는 것이 없었습니다. 그는 사람이 되는 사람이 하는 것이 없는 것이 없었다.

			4 Te 10	이 발생님의 관심 수 있는 있는 학생들에 발표한 학생들이 하는 것은 사람들이 되는 것 같은 사람들이 되었다. 그는 사람들이 가는 것 같은 그는 사람들이 되었다.
7058	7061 (	Cont *c	1)	friable. Fairly tight.
7061	7068	2	21	Sand, grey, hard, fine, tight, not frieble except in bottom few inches. Gassy, no cut or odor, finer and tighter than preceding.
7068	7072	3	31	gand, grey, firm, fine to medium, fairly friable. Send is softer, more friable than above. Porosity and permeability appear as good as sand about 7050. Gasay but no cut or edor.
7072	7077	4	11	Sand as above.
* T * T	<b>1</b>		Ī٠	Shale, hard, dark brown with 3° streak grey sandstone. Con- tacts dip 22-28°.
			21	Sand, firm, grey, fine, fair reservoir, No cut or odor. Very little gas noted.
7077	7086	10	101	Shele, hard, dark brown, flaky as above with 1" streak of hard grey fine sandstone at 7080". A 6" streak at 7082' and a 4" streak at 7086'. Bottom 1" of core is shale. Good gas.
7086	7095	7	7:	Shale, hard, dense, dark brown, well bedded and thin bedded, silty, similar to shale in preceding core but harder. Erittle, fish remains common, no forams noted. Good gas, dip about 4-50
7095	7104	10	41	Shale as above, common fish remains but no forams noted. Good gas.
			61	Sand, grey, firm, fine to medium, massive, fairly friable, massive, glauconite becoming more common. Very similar to sand 7007-77. Porosity and permeability appear fair though there is a good deal of fine material in pores. Would make fair reservoir, slight odor. No cut, some gas. Does not look wet.
7104	7112	8	<b>Ś</b> †	Sand, grey, hard, fine, massive, "tight", somewhat darker grey, difficulty friable, porosity and permeability seem lower than preceding core, sand would be a rather poor reservoir, slight odor, slight gas. No cut, odor disappears quickly.
7112	7155	10	10:	Sand, grey, hard and tight as preceding core in top 3', slight gas, no odor. Poor reservoir. 3" dark brown shale at 7115. Good gas, sand 7115-22 grey, firm, fine, massive, fairly friable, porosity and permeability fair. Would make fair reservoir. Fairly good gas and good gasoline odor especially in bottom 12' where odor persists for at least 12 hours. Gas burns readily in can after sample stood 5 hours.
7122	7130	g	11	Shale, hard, dark brown as preceding shale. Streaks of grey
		e estado. Nacional		fine sand, good gas. Top 3" similar to sand above, good odor.
9	NOFOLLANDECELVE EP 18 194	n	7'	Sand, grey to dark grey, very fine, silty and clayey, very tight, hard, numerous thin streeks and laminations of dark silty shale, tough. Good gas, no odor, no cut. A very poor
				reservoir. Porosity and permeability low.
GUALI	inga, calif	STAM I'M		그리는 경우의 사람들은 살아가는 경우가 뭐야 있다. 나는 어디를 통해 먹었다면요?

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7130	7137	5	5'	Shale, hard, dark brown, dense, slightly silty, somewhat brittle, flaky, well bedded and thin bedded, micro-micaceous, similar to preceding shales. Common fish remains but no forams noted. Good gas. No odor.
7137	7244	đ	8•	Shale, hard, dark brown as above but seems more compact and better bedded. Becomes very silty in bottom 6" and bottom 1" is fine gray sand, hard. Dip 4-5°. Good gas, no odor, common fish remains, no forams noted.
7144	7149	2	21	Shale as above, good gas.
7149	<b>71</b> 57	క	21 31	Shele as above with few grey, fine, silty sand streaks. Sand, grey, firm, silty, tight, mica common, no cut, very poor reservoir.
			31	Shale, dark brown, shale in this core is softer, flaky and silty, fish remains common, no forams, good gas in core, few sand streaks in lower 31. Fine grey sand in bottom 20 of core.
7157	7166	9	1*	Shale as above
			21	Sand, grey, hard, fine, tight
			1.	Shale an above.
			1* 4,	Sand as above.
			41	Shale as above with few streaks fine grey, tight sand as above. Sands would make poor reservoir. Good gas in core.
7166	7175	9	11	Shale, hard, dark brown, slightly brittle as above but harder and better bedded.
			4.	Sand, grey, firm, fine, massive, fairly friable, somewhat clayey which makes it tough and hard to cut or break, micaceous, some glauconite. Gassy, odor which seems to be of
ahisian a	F GIL AND GI	ls.		a heavier product than gasoline. Gas burned at and off barrol before core was extracted.
QMC	EWEN		11	Shale as above with sandy spots.
SEP	18 1941		31	Sand, as above with 6" shale at 7174". Sand is gessy and has
SMLLACK	y' Cyliegumi	*		some odor. Occasional shale aplotches. These sands would make poor to fair reservoir. Sand does not look wet.  Top of Sand- 7167.
7175	7184	9	91	Sand, grey, firm to hard, fine, similar to preceding core but seems cleaner with less shaly material and porosity and permeability are probably better. Sand is dry and powdery and does not look wet. It is only slightly friable, good gas. Fair oder. No cut. Sand is slightly coarser than preceding.
7184	7193	52	5 <b>å</b> †	Sand, grey as preceding except becoming slightly coarser. Good gas, fair petroleum? odor. No cut.
7193	7200	812	831	Sand, grey as above but cleaner and more friable, especially in upper 3-4. Well sorted, perosity and permeability look fairly good. Fair gas and petroleum odor especially in upper 3.

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				그는 일본 생물하는 일본 선물에 가는 사람들은 나는 사람들이 되었다. 그는 사람들이 되었다는 그 사람들이 되었다. 그렇다는 그를 다 그렇다는 그를 다 살아 있다.
7200	7209	9	91	Sand, grey, firm, fine, clean, fairly frieble as above. Good odor, fair gas, no cut. Petroleum odor, porosity and perms- ability fair. Fair reservoir, Sand does not look wet.
7209	7218	8	₹ 2, 2, 2,	Sand, grey, hard, fine, fairly frieble, massive as preceding. Sandstone, grey, hard, fine, lime comented "shell". Shale, hard, dark brown, silty as preceding shales. Sand, grey, firm, fine, massive, tight, fairly frieble. clayey at top.
			1.	Shale es above.
<b>Wising</b>	OF OIL AND	GAS	21	Sand, grey, fine with scattered coarse grains and gritty or
PE	CEIVED			from bottom, very clayey, tough. Porosity and permeability
7	P 18 1941			low. Not a reservoir. Carbonaceous splotches, woody fragments and petroleum residue (Gilsonite?) in bottom l'. Gas in core,
	ga, calif <del>or</del>	NI2		no cut, no odor. Cross bedding in lower 1' of sand. Character of beds suggests lagoonal deposition and possibly a trans- itional series.
7218	7227	9	6•	Sand, grey, firm, fine, clayey and tight much like bottom of preceding core 7215-19', becoming much less clayey, less tough, fairly friable but still clayey and tight 7219-24'.
			3*	Shale, hard, dark brown, well bedded, slightly brittle, Micromicaceous with streeks and aplotches of sand. Some pyrite. Fish remains common, no forems noted.
7227	72少	8	6°	Shale, dark brown similar to above with streaks non bedded siltstone especially 7227-29 and thin streaks cross bedded fine grey send. Gilsonitic material common, fish remains. Send, grey, hard, tight, micaceous, shaley, very poor
				reservoir. Good gas and possible slight odor in bottom lt.
7234	7242		4.	Sandstone, fairly hard, fine, grey, tight, micaceous, much more dense and more impervious than sands up the hole. difficulty friable, poresity and permeability low. Very poor reservoir. A little gas, fair odor. Seems to be grading into better sand at bottom.
7242	7247	4	å,	<u>- [ - 12] - 13] </u>
f See William	lex!		<b>3章</b> ・	Hard brown shale. Firm, Triable, fine grey sand, good odor, gassy.
7247	7256	9	91	Medium fine grained, friable at top, firmly friable at bottom, fairly tight, gassy, odor fair, fairly hard bottom 2.
7256	7265	9	4.	
	1/		21	As above, faint odor, gassy.  Rerd lime cemented sandstone, probably local
			31	As 4: above, faint odor, gassy, sand below hard streaks no different from sand above
7265	7274	10	101	Sand, grey, fairly friable, good sharp odor, not gassy.
7274	7263	9	91	Sand, medium fine, friable, softer than above.
7283	7000	^	Ω	어 돼요. 하지 않는 사람들이 얼마를 하는 것이 하는 것이 없는 것이 없는 것이 없었다.
leol	7292	9	91	Medium grained, friable grey sand, mud gassy, fair odor.

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Jergins 01	l Company	- Cheney	Ranch #1

7292	7296	4号	31	send, firm, grey, medium, slightly in harder. No gas or odor.	rrieble as above but
			12'	Sandstone, grey, very hard, lime cer little if any gas. No odor. Shell is top 6s, fine in lower l'.	
7296	7301	3	31	Sandstone, light grey, extremely has "shell" on bottom lt' of preceding of Entire core drilled at rate of l' pe 7300 where 6" went a little faster. is 65.	core. No gas, no odor. er hour except about
7301	7304	3	1.7 80 40 1.1	Hard calcareous sandstone shell. Friable, medium grained grey sand. Hard shaley sandstone, gassy. Shaley poorly sorted sandstone.	SEP 18 1941 MALINGA, CALIFORNIA
		Note:-	becau	7301-21: are much darker grey then the se of large amount of biotite and the 21: look as if they might be WET.	
730 <sup>1</sup> 4	7313	9	11 3n 9n 41	Firm to hard medium grained grey san Dark brown shale. Soft, friable sand Firmly friable, medium grained grey tight, gassy, no odor.	
1			31	Friable, medium grained grey sand,	possibly wet.
7313	7322	9	8.	Firm to hard, medium grey sand, ver amall 3" streak of hard shale at 73 shaley, tight, possibly WET, very 1 sand, no odor. Hard brown shale, good gas.	15, sand is micaceous,
7322	7326	4	4.	Hard brown shale, sizzled after bei	
7326	7335	9	41 51	Shale, hard, dark brown, dense as a common fish remains.	
				Sand, firm, grey, fine, silty, tight common shale splotches at 73342', for very poor reservoir. Looks WET, lam might give oriented dip.	ew bubbles of gas, no odor,
7335	7342	7		Sandstone, grey, extremely hard, de with large flakes of biotite, lime what softer not strongly lime cemen slightly friable sand in upper 6". No gas in "shell"	cemented "shell" with some- ted hard medium grey
7348	7348	2	21	Sandstone, grey, fine, extremely ha cemented, as above. Entire core was No gas.	
				그 등록 하고 하는 하고 있는 사람이 들었다. 그 나를 하고 하는데 그 사는	열면이 그렇게 되는 것 같아 얼마나요? 그리다 하

page 42 Jergins 0	11 Company	y - C	heney	Ranch #1 Sec 29, 14/13
7348	7349	1	31	Sandatono, Érey, very hard, lime comented "shell" as above. No Essa
7349	7353	6	61	sandstone, grey, very hard, line cemented, "shell" as above.
7353	7360	7	3* 4.	Sandstone, grey, very hard, lime cemented, as preceding. Bottom of shell 7356. No gas. Sandstone, firm, grey, fine, massive, not friable, perceity and permeability low, tight, poor reservoir. Micaceous, may be WET though too tight to yield much fluid, small increase of gas on ditch after coring this sand. Few bubbles of gas in core. No edor.
7360 VISION OF S RECEI SEP 18	<b>VED</b> 3 1941	9	<b>1 5 .</b>	Sandstone, hard, grey, lime comented as 7335-56'.  Sand, grey, hard, fine to medium tight, micaceous, difficulty friable, messive except in bottom 4" where abundant dark silty laminations indicate low dip. Porosity fair, permeability low. Poor reservoir. Slight trace of gas in core. No odor, no cut. Looks wet. A little coerser and softer than preceding core.
XDALINGA, C 7369	ALIFERNIA 7378	8	8*	Sand, gray, fine to very fine, silty, hard, very difficulty friable, miceceous, well bedded with abundant silty lamination dipping 7-12° with best and average about 10°. Though slight cross bedding is present, these should be good for orientation. Very poor reservoir. A little more gas than last core. No odor, no cut. Some glauconite.
7378	73\$7	9	91	Sand, grey, hard, fine, tight, micaceous, with silty lam- inations at about 7378-79'. Very difficulty friable, very poor reservoir, very little gas. No odor or out. Some glau- conite.
7387	7396	9	61 31	Sand, as above but medium grained, very slight traces of gas. No odor, no cut. Sandstone, hard, grey, medium grained becoming coarse in lower 1/2', not a strongly cemented lime "shell", very slight traces of gas.
7396	7405	7	7	Sand, grey, hard, medium, difficulty friable becoming soft and friable in bottom 1. Porosity and permeability fair especially in friable streak 7402-03. Lost 2. probably good sand, very slight trace of gas, no edor, no cut. Sand looks WET.
7405	7412		<b>7.</b>	gand, grey, firm, compact, fairly friable, medium, well sorted, fairly clean, with some softer friable streaks.  Porosity and permeability fair but better than preceding. Velittle gas, no edor. Looks like fairly good reservoir. Looks
7412	7421	9	91	Sand, grey, firm with fairly soft friable strocks, similar to above. Common glauconite. No gas or odor. Looks WET.

Pago					4							
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Jergins	011 Compa	ny -	Cheney	Ranch #1 Sec 29, 14/13
7421	7430	6	61	Sand, grey, firm but nofter than preceding, frieble streaks, fairly well sorted, medium, massive, micacsous, perosity and permeability fair. No gas, no odor. Looks WET
7430	7435	42	3 <b>2</b> 1	Sandstone, grey, fair firm, medium, much as preceding core but compacted and partially comented, very difficulty friable. Looks WHT. No gas, no odor.
				Shele, hard, dense, derk brownish gray, similar to preceding shales but harder and not flaky. Forams, including Modosaria. No gas, but this 2 of shale was pulled by coming out of the hole with the pipe, gray limy streaks in shale, dip 5-10°.
7435	7444	54	20	Shale, eilth and sandy, micro-micaceous, dark brownish grey, similar to preceding Cretaceous shales but sandy, several
				pieces and ground up slush from Kreyenbagen in cavings in upper 1' in barrel. Several bard limy pieces, few bubbles of gas in mud. First part of core went slowly, middle and lower part cored easily. Probably grading into sand. Few forems in shale.
7414	7446	2	21	Sand, grey, firm, compact, medium, uniform, massive, slightly friable, fairly well sorted, some glauconite, some mica, fair reservoir. No odor, no gas, no cut. Locks WET, fairly "tight".
7446	7455	1	4.	Sand, grey as above but slightly softer and becoming a little more friable. Very few bubbles of gas in mud. No odor. Looks WET, cored softer toward bettom. Probably all sand. Fair reservoir.
7455	7460	9	91	Sand, grey as above, fairly tight but would make fair reservoir. No gas. No odor, looks WET. Lower 2' is sandstone, firm as sand above but hard and lime cemented.
7460	7469	6	21 4.	Sandstone as above, partially lime comented, rare gas bubbles. Sand, grey, firm, medium but coarser than preceding core, massive, compact, micaccous. Fairly tight but would be a fair reservoir. Some glauconite. Similar to preceding sends but coarser. No gas, no cut, no oder.
7469	7476	9	91	Send. Grey, firm but softer then preceding, compact, becoming almost coarse grained. Becomes shaley and splotched with 3/4= shale fragments and carbonaceous in bottom 6*. Yew bubbles of gas at bottom. No odor, fairly good reservoir.
7476	7465	4	1.1	Sand, dark gray, firm, fine with abundant small streaks and splotches of dark shale and carbonaceous material, tight,
	ON OF OIL A	and the second	• •	Tew bubbles of geso
and the second s	EP 18 19	Carata de la companya della companya della companya de la companya de la companya della companya	3'	Sand, grey, firm, medium, compact, similar to send in pre- ceding cores becoming hard end lime cemented in bottom 6s. Bottom of core was sand as it drilled fast. Few bubbles of
ACC	Linga, galii	走经别中		gas at bottom, looks <u>wer</u> , no edor.
7485	7492	9	91	Sand, grey as above but a little coarser, softer and slightly

more friable, fair reservoir, few bubbles gas, looks WET. Bottom 4\* is shale, dark brownish black, silty, gritty.

carbonaceous, forems and small siliceous fragments. Fair gas.

Page 44 Jorgins	Oil Compan	y = 1	Cheney	Reinch #1 sec 29, 14/13
7492	7500	క	81	send, grey, firm, compact, massive, elightly friable; misaceous, fairly tight, some glaucenite, fairly well sorted, uniform, fair reservoir. No gas, no edor. Locks <u>wer</u> .
7500	7561			prilled. Ditch sample:- 7500-7525 Send, grey, fine with 40% chips dark brown shale. All drilled like sand, soft 7506-14:. 7525-50 Hard lime cemented shell 7555-36: soft sand 7538-41:. Hard fine calcareous grey sandstone 7541-53:. Sand, firm 7553-56:, gradually becoming softer 7556-61 soft at bottom.
7561	7580	3	2½+	Sand, grey, hard, medium, elightly frieble, massive, micaceous as preceding sands but harder. No gas or odor. Looks wer. Grades into 6th lime comented sandstone. Shale, hard, dense, dark brownish grey, very silty with fine, grey sand laminations at top.
7580	7590	5	5,	Sand, gray, fine, firm, with hard streak especially in lower 1', splotched and laminated with dark shale, cross bedded with dips up to 10°, slightly friable, fairly dense, tight. E' shale with few fine grey sand streaks placed in cans. Sand is micaceous, slightly pyritic. No odor. Not a reservoir as it is too tight. Bettom 3° of core is hard light brown, silty, micaceous shale. Some gas bubbling from core.
<b>7</b> 590	7598	4	1' 2½' 6#	Hard fine grey sandstone, no dip, massive, pepper and sale. Mixture mud and brown sand fragments, soft. Fine, friable brown sand, jammed in eatcher. Faint gas show in all parts.
7598	7608	1	1.	Soft fine greyish brown sand. Few pieces shele above. No odor, no gas. Includes 2" hard brown shele.
7608	7613	3	31	Firm, frieble fine grey send. No odor, no gas.
7613	7623	8	81	Sand, grey, firm, fine and silty at top becoming medium and cleaner toward bottom, friable, massive. Poor to fair reservoir. No odor, no gas.
7623	7627	3	31	Sand, grey, hard, difficulty frieble becoming lime comented in lower 1. No odor, no gas. Permeability low.
7627	7628	É	ģ.	sendstone, grey, medium, lime comented, tight. No gas.
7628	7633	5	51	Sand, grey, firm to hard, fine, silty, tight, friable streeks, massive. Poor dips 8-12° in shaley leminations at 7630'. No odor, no gas.
7633	7638	2克	21	Shaley fine sand in top 6% Remainder send, grey as above but
QE,	of oil and g CEIVED 18 1941	AS	à:	somewhat coarser. Thin partings of shale. Shale, dark greyish brown, hard with 1/50 streaks and laminations fine grey sand. No gas noted.

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7638	7643	3	<b>3'</b>	gand, grey, firm to bard, fine to medium, massive, misaceous fairly friable, ill sorted, tight. Poor reservoir. No odor, no gas.
7643	7648	23	2: 1:	Sand, gray as above but becoming finer and laminated with shale at 7645. Dip 4-5° (good), no edor, no gas. Shale, hard, dark grayish brown, danse. Sandy streaks. No gas.
7648	7653	3	31	Sand, grey, firm, medium, friable, messive, micaceous. Perme- ability probably moderately low. Fair reservoir. No odor, no gas. Sand looks WYT. Shaly in top by.
7653	7658	3 <del>1</del>	3 <del>8</del> 1	Sand, gray as above but firmer, finer and shaller with 1' shal at 7654', angular splotches shale in fine sand at 7655'.  Note: - 5' of hole actually made but correct depth of hole is 7654'.
7658	7663	6+61	61611	Medium hard, firmly frieble grey sand. Medium to medium coarse carbonaceous fragments in top of Looks very porous and permeable. Looks wet. No gas, no odor.
7663	7668	j u	4n	Hard fine gray sendstone. Medium grained, no gas, no odor.
7668	7674	92	3\$1 61	Hard fine grained sandstone. Medium grained, firm, friable grey sandstone. No cut, no odor, No gas.
7674	7681	7	51 11	Well bedded? medium grained, firm, friable grey sand. No odor. No gas. Peorly bedded, hard brown shale and sandy shale. Few gas bubbles. Poorly bedded fine grained grey sand, firm to hard.
7681	7687	6161	6+6n	Medium grained, firm, friable grey sand. Shows dips on breakage planes of 25°. This may be due to core barrel as in hole above. No gas, no odor.
7667	7692	*		Sand, grey, firm, medium, friable, massive, no gas, no odor. Few inches shale at 7690°. Send looks wet. Breakage planes as in upper 1°.
7692	7697	3	3'	Sand, grey, firm, friable, medium, massive as above. No gas, no odor.
7697	7707	20	<b>10</b> f	Sand, similar to above but finer and with shaley streaks laminated with fine grey sand at 7703' and at 7705'. No gas, no cut. Dip in cross bedded sand at 770" up to 35°. Dip in laminated sand and shale at 7705' of 7-5°.

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7707	7727	10	1 <del>2</del> 1 31	Shale, hard, dark greyish brown, sandy spots. Sand, grey, firm to hard, fine, slightly friable, shale splotched near top and bottom.
		St. Par	21	Shale as above with sandy spots, fish scales,
			11	Sand, grey, hard fine.
			1.	Shale, hard, dark brown as above with sandy laminations.  Poor dip 240.
			<del>}</del> ,	
7717	7725	8	21	park brown hard shale, occasional spots derk sand. Good gas show throughout.
			61	Medium grained grey to brown, micaseous sand with occasional thin included streak dark shale. Has appearance of poorly sorted material, sand and shale fragments, dips flat. No odor,
7725	7732	. 7	. 31	Hard brown, massive shale, abundant gas, occasional high angle fracture.
			1.	Medium grained firm, friable grey sand.
			11	Shele as above.
			1' 2' 12'	Sand as above. Nottled shaley sand, hard or sandy shale, gassy. Shale above
				very tight as gas "cheeped" for h hr after removal.
7732	7741	9	31	Sand, grey, fine with streaks shale, hard, brown. Shale, hard, dark greyish brown, dense with common spots and
				streaks fine grey hard sand. Fair gas bubbling throughout core. Gas could be heard.
7741	7749	7	1,1	Sand, gray, fine, no odor.
			21	Shale, hard, dark brown, sandy, slickensides, Gas.
			1. 1.	Sand, grey, fine, friable, shaley. No odor. Shale as above. Gas.
			21	Sand, grey, fine to medium, friable, massive, sheley spots. fair gas in core, mostly from shale.
7749	7759	10	3*	Medium grained firm, friable grey sand. Gas.
		inger of an Artistical	1.0	Brittle dark grey shale, few forams.
			11	
			2,	Shale, dark grey, forems.  Send as above.  SEP 18 1941
			21	Sand as above.  Shale, dark grey, platy, thin bedded, forems. SALINGA CALIFORNIA
7759	7769	11	11	Shale as above, gassy.
			101	Firm, friable, fine grained grey sand, no cut, no odor, no gas
7769	7779	10	101	Fine grained grey, massive, well sorted, firm, friable, send, slight gas shows top 1'. No cut, no odor. 6" lime comented sandatone shell 7778-778"/
7779	7789	10	31	Sand as above.
			21	Shaley, fine sand, cross bedded streeks thin shale, gassy.
			11	Fine grey, firm, frieble sand, gassy, Mottled fine sandy shale, gassy, no cut, no odor.

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7789	7801	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Fire fine sendstone, faint gas shows, no cut no odor.  Hard brown shale, faint gas shows, no cut, no odor.  Shale fragments " " " " " " " " " " " " " " " " " " "
7801	7810	9 11 11 21 5*	Shele, hard, brown. Sand, grey, medium, friable, no cut. Shale, hard, dark brown, dense, becoming very sandy in bottom 1:. Sand, grey, medium, firm, slightly friable, fairly tight, massive. No cut stains or edor. Faint gas in core. Sand looks
7510	7820	10 1½; 7½;	Sand as above, somewhat softer and more friable. Siltatone, brown, finely sandy, limy? Sand, grey, firm, fine to medium, massive, slightly friable, fairly tight. Some glausouite. Porosity may be fair but permeability is moderately low. No cut, stains or oder. No gas noted in core, mud ring around core is not frothy.
7820	7830	9 1° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4°	Sand, hard, grey, medium, slightly frieble. Sandstone, hard, grey, fine, lime cemented, massive in upper 2', grading into hard grey biscuit parting send in lower 2'. Sand, grey, firm, friable, medium, massive becoming coarser and softer toward bottom. No cut, stains or odor. No gas. Sands look WET.
7830	7840	8 8	Sand, grey, medium, firm, compact, alightly frieble, massive as preceding core. Permeability probably moderately low. Looks WET, No edor, no gas.
7840	7849	7 41	Sand, grey, hard, medium, massive at top, biscuit parting with indications of low dip 7841-44. Sand, grey, firm, medium, massive, slightly friable, fairly tight becoming softer and more friable in lower few inches. No oder, no gas. Sand looks WET.
7849	7855	8 01	Cored like firm sand.
7855	7859	å 2ª	Shale, hard, dark, greying brown. Sand, grey, hard, medium with some coarse grains, micaceous.
7859	7869	8 81	Sand, gray, hard, medium to coarse, ill sorted, slightly friable, massive. We cut, stains, odor or gas. Sand looks wer.
7869	7879	4 4.	Hard broken fine calcareous grey sandstone shell.
7879 NV	7884 ISION OF DIL A RECEIVE SEP 18 19	<u>I</u>	Medium grained hard sandstone, grey, breaks up in 3/4" to 3" lengths. Very sharp gritty. No gas. Softer than above, no odor. 2" hard dark grey shale at top.

Page 48 Jergins	011 Compa	ny -	(hene:	<u>/ Rench #1</u> Sec. 29, 14/13
7684	7889	5	51	As above but slightly softer and coarser breaks on bedding? with 3/4% to 1* lengths. No gas, no oder.
7889	7895	3	31	As above.
7895	7900	3	31	AB chove.
7900	7905	0	01	No resovery.
7905	7910	5	21 11 81	Sand as above but finer, slight gas shows.  Sandy, fine brown shale, poorly sorted, good gas shows.  Sand as above.
7910	7915	5	51	Sand, grey, hard, medium, massive, biscuit parting into piece about 1* long indicating nearly flat dips. Harder and lime cemented sandstone in lower 2'. No odor, no gas.
7915	7918	1}	1ģi	Sandatone, hard, grey, line comented "shell" as bottom 2' of preceding core. No gas.
7918	7924	5	11	Sandstone, hard, grey, line comented as above.  Sand, grey, hard at top becoming softer toward base, fine slity, measive, tight, No odor, no stains, no gas, Looks wer.
7924	7934	10	101	Sand, gray, firm, fine at top becoming medium toward base, slightly friable, massive, misseeous, tight. No cut, steins, odor or gas. Permeability looks low, but sand looks WET. Becoming shaley and with thin shale streaks dipping at low angles in bottom 1%.
7934	7944	9	91	Shale, hard, dark greyish brown, silty, with numerous streaks of send up to 1% and common sand laminations dipping at low angles. Shale is micaceous, good gas throughout core. Some calcareous shale in extreme bottom. Foremes.
7944	7954	10	5	Shale, hard, Cark greyish brown, dense, miceceous, pyritic with fine grey sand laminations and \$1 of sand at 7946.  Possibly some forame, Some gas but not as apparent as in preceding core.
			51	Sand, grey, firm, fine, misaceous, tight, silty, glauconitie, massive, slightly frieble. No cut, stains, ofor or gas in sand. Looks wer but tight. Small gas on ditch at noon 4-14-40 may have been from this sand.
7954	7964		11 31 31	Sandstone, grey, hard, lime comented.  Sand, grey, hard to firm, medium, slightly friable.  Sandstone, grey, hard, lime comented. No gas in core. Cored hard 7961-641.
7964	7974	3	11	Sand, grey, soft to hard, medium to coarse, telescoped in
RECEI SEP 18			21	coring and mushy in lower 6s. No gas.  Shale, hard, dark greyish brown, micaceous, pyritic spots.  Rere forams including Nedoseria, good gas, Bottom 5' of core drilled slowly.
				골프레마 크림티아 하는 그 시간 나는 하나 그는 중에 나는 말이 그렇게 되었다. 그 그

COALINGA, CALIFORNIA

Pege 4g Jergins	Oil Compa	iny -	Chener	7 Ranch #1 Sec 29, 14/13
7974	7980	•	<b>.</b>	Shele with 3" streak hard grey sand, shale at bottom. No gas noted.
79 <b>5</b> 0	7987	5	51	Sand, grey, hard, medium, parts into pieces 1-3° long. No gas.
7987	7995	8	81	Sand, gray, hard, fine, difficulty friable, tight with shaley laminations in lower foot. No cut, odor, stains or gas. Massive and milty.
7995	<b>8005</b>	10	101	Sand, grey, hard as above but a little coarser. Thin shale streams and splotches 8002-03% la shale at extreme bottom. No gas.
\$005	8015	5	31 21	Sand, gray, hard as above but siltier. Sandstone, gray, hard, as above but lime cemented. Bottom l' drilled softer. No odor or gas
<b>501</b> 5	80).5	u	2: 9)	Sandstone, hard, grey, lime comented as above. Sand, grey, hard, fine to medium, silty, small shale splotches, tight, difficulty friable, mostly massive with silty laminat- tons. at 5022, micaccous. No gas.
<del>dozo</del>	<del>2005</del>			
<b>6</b> 025	8035	10	101	Sand, gray, hard, not friable, fine similar to preceding with abundant small shale splotches and laminations 8029-35'. Fair gas in shaley sand 6029-33'. Laminations indicate low dip.
8035	804-5	9	91	Sand, hard, grey to dark grey, similar to above but much more shaley except in bottom 2'. Abundant laminations dark shale indicating low dip. 40 shale at 8043's Some gas bubbles.
<b>60</b> 45	8055	8	71 1•	Fire to medium firm frieble sandstone. Slightly shaley in part. Massive to laminated. No gas. Sandy laminated dark shale. Not very tight.
8055	<b>8</b> 059	4	21	Shale, hard, dense, dark greyich brown, well bedded, micaccous,
			21	pyritic spors.  Bandstone, hard, grey, fine to medium, lims comented, very tight, we gas, 2° laminated shale at 8058'. Shows low dip.
8059	8064	2	11 17	gandstone as above, parts in 1/4*-3/4* biscuits. Shale, silty laminations dipping 5-6° in upper 6°, similar to preceding shale. No gas.
8064	<b>806</b> 9	5	35' 1' 5'	Shale as above but more missueous with 2' sandstone at 6066'. Sandstone, grey, fine with thin shale atreaks. Shale at bottom. No gas.
5069	8077	8	71	Shale as above with abundant laminations and thin streaks
9	ECTIVE EP 18 194	71	*	fine grey sandstone indicating low dip. sandstone, grey, firm, silty and clayey, very micaceous, thinly bedded, good gas in core when fresh.

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\$077	<b>508</b> 5	<b>5</b>	421	Hard gray fine sandstone. Shale, dark gray, very silty and sandy with abundant lamination fine gray sandatone and \$1 softer friable gray sand at 50901, very misaceous shale, few possible forams. Good gas.
8085	<b>8</b> 093	6	61	Shale, hard, dark greyish brown, dense, well bedded with lam- inations fine grey sandstone, few possible forems. Good gas, few 60° slickensides.
<b>\$</b> 093	<b>8</b> 099	5	51	Shale, hard, dense, silty, dark greyish brown, almost porcellaneous, micaceous, few thin sandy spots and laminations. Several 45° elickensides, mud g rime shows gas bubbles. Includes 1° sand, hard, grey at top.
<b>609</b> 9	8107	8	<b>5</b> 1	Sandstone, with 2° shale as preceding at top. Firm, grey, fine calcareous, micaceous, glauconitic, tight, massive with few biscuit parting places and silty and shaley laminations at 510%, dipping 14°. No odor, stains, cut or gas. Sand looks wer, but very tight.
<b>6107</b>	8116	<b>.</b>		gandstone, firm but a little sefter than preceding, difficulty friable, grey, fine, with silty and very shaley streak \$109-\$1102. Laminations dip 7-50. Hard and lime comented in bottom 20. Looks WET but tight. No gas except in shaley part which showed few bubbles.
<b>\$116</b>	<b>8126</b>	10	31 71	Sandstone, grey, hard, fine, lime comented. Sand, grey, firm, fairly friable, fine, very micaceous, glau- conitic, silty, tight, massive, looks wer, but tight, no oder, stains, cut, no gas.
<b>5126</b>	8136	9	91	Sand, grey, like preceding core in top 2' and lower 12' but dark grey, very fine and silty, thin bedded with abundant laminations dark shale, cross bedded, softer, 5127-35'. Yew bubbles of gas from shaley parts. No cdor. Sand looks WET but tight.
8136	8146	10	101	Sandstone, soft, grey to dark grey, fine, micaceous, glaucon- itic, difficulty friable, silty and shaley \$137-38'. No odor. Some gas \$136-37'. Breaks in 1-3" pieces. Looks WET but tight.
<b>8146</b>	8156	9	91	Sandatone es above.
8156	8166	9	<b>41</b> 51	Sandstone as above, softer in lower few feet. No odor some gas. Shale, hard, dark greyish brown, silty, micaceous, gritty especially toward base where shale becomes very sandy. Fair gas, few possible forams, most of shale is very sandy, carbonaceous, pyritic spots.
	8176 F DIL AND (	e Gas	81	Shale, very sandy and gritty as above with numerous streaks hard grey sand especially 5166-67%. Fair gas in core. About 60% shale.

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8176	8186		31 51	Shale and sand streaks as in preceding core. Fair gas. Sand, grey, firm to hard, fine, tight, with few streaks shale. Sand is slightly friable. Some gas from more shaley perts. No edor.	
8186	8196	8	<b>8</b> 1	Sandstone, hard, grey, fine, lime cemented, very micaceous, tight, fairly well bedded with shaley laminations throughout, some glauconite. In shale with nearly horizoneal slickensides at 5190%, pair gas in parts of core. No odor.	
8196	<b>82</b> 03	6	61	Sand, Grey, firm, frieble, fine silty, micaceous, tight with few thin streaks shale. Hard sand \$200-01°. Gas in shaley parts. No odor.	
<b>8203</b>	8213	10	101	Sand, grey, firm, friable, as above, silty and with one thin streak sandy shale. Gas in the shale at 5212. No odor.	
<b>6213</b>	<b>8222</b>	Š1		Sandstone, hard, fine, shaley, micaceous, laminated, cemented with shale streaks constituting about 30% of core. Few calcareous forams \$220-23%, Good gas, no odor. Shale is silty and gritty.	
<b>5222</b>	<b>8226</b>	•	40	Sandstone as above with 20% gritty, silty shale in streaks. Pair gas in shale.	
8226	8236	8	81	Shale, hard, dark greyish brown, silty, sandy spots, mice- ceous as above with atreaks tight shaley grey sandstone especially in lower 3%. Fair gas in shale. 75% shale. Few Torans.	
<b>8236</b>	<b>82</b> 46	10	10*	Shale, hard, dark greyish brown, dense, slightly brittle, slightly porcellaneous, micaseous, thinly bedded, spalling, becoming sandy in lower 5' with few streaks up to 4" of fir friable fine grey sand. Dip 40, Fish remains and few possib forams. Gas in the shale. Shale is denser and less silty an sandy then preceding.	
8246	8256	10	301	Shale as above, micro-misaceous, brittle, fish remains and spines noted but no forems seen with hand lens. Core was dry when pulled, and no gas was seen. It "cheeped" after being washed. This might be due to air rather than gas. Dip 4°. "poker chip" type, 3/4" thick.	
8256	<b>8266</b>	10	101	Shale, hard, dense, brittle, spalling as above. No gas noted but "sheeped" when washed. Due to air or gas.	
<b>526</b> 6	8275	5	51	Shele, hard, donse, dark greyish brown, brittle as above but with few small silty and sandy spots. Fish remains. Carbonaceous woody spots rare. Core was nearly dry when pulled and no gas was noted. No gas noted after washing, very rare forms.	
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Jergins Oi	1 Company .	- Chena	y Rench #1

82715	8280		01	Missed cora because barrel broke 1/2' above shoe. Drilled like shale, softer at bottom.		
8280	8289			Shale, hard, dense, dark greyish brown, well bedded, micro- missceous, brittle, semi-porcellaneous, bluish cast on ex- terior where polished in coring. Somewhat spalling, fish remains, spines. Few calcareous forams including Nodomico. Pleatofrondicularies at 5250:. Core nearly dry when pulled. No gas noted. Dip 40.		
8289	8291	10	101	ghale as above but more compact, denser, more brittle and more porcellaneous. Fish remains, possible forems at \$291'. Gas bubbles breaking through the mud. Dip 4°.		
<b>82</b> 91	<b>8301</b>	10	201	Shale as above, fish remains, spins and scarce forams (Node- seria) at 8297'. A little gas noted. Rare dried bituminous? spots.		
6307	<b>8311</b>	10	101	Shele as above, few pyritic clusters. Scarce fish remains, spines. Few possible forams. Fair gas in places.		
8311	8319	8	81	Shale as above but harder and denser. A very few bubbles of gas		
<b>831</b> 9	<b>832</b> 9	9	91	Sand shale a core above. Dense brown shale, a very small amount of gas noted.		
8329	<b>8339</b>	6*	61	Same shale as above, recovery very poor. Driller figured about 5° of shale. The rest was thought to be very soft. Driller reports soft drilling probably sand 5334-36°. thinks 5335-39° was shale.		
<b>6339</b>	8343	0	01	Driller thinks probably shale.		
8343	8345	0	01	Driller thinks shale except bottom it which was softer and may be sand.		
8345 avis	8352 ION OF OIL A	6 <del>1</del> ND GA	6 <del>1</del> 1	Sand, grey, soft, fine, friable, very silty, with 3" streak shale at 5345' and 1' gritty very sandy shale 5340-41', no odor, no out, so stains. No gas noted but thick mid ring showed signs of gas breaking through it. Sand is silty but		
1	RECEIVE SEP 18 19	M		would make fair reservoir. Sand may possibly be WEF but does not have extremely wet appearance of sands up the hole. Core stood 1 hr in hole while specifing line. Fair gas in mud at		
***	Linga, calif	* Times		midnight way have been from this sand or next core which began at 11:05 PoH.  Top of first sand showing gas 53442'.		
\$552	<b>6362</b>	10	21 31 51	Shale, dark greyish brown, sandy. Siltatone, grey, sandy. Sand, grey, soft, fine, friable, massive with 1' shale 8359- 60', sand does not look war. No gas noted but fair gas on ditch which must have been from sand 8345-62'. No odor.		
8362	\$373	7	13 21	Seft send at top as above. Sandstone, semented, grey.		

<b>6362</b>	<b>\$5</b> 73 (	Cont 1	a) 4.	Shale and thin streaks firm send with 4% soft friable grey sand at 8366. Some gas noted. No odor in sand. Bottom 3% is firm, friable, grey sand. The shale is sandy.				
8373	8383			Slight fleeting odor in tight gas, no cut. Core was in barre barrel stuck. Good gas and lig	micaceous, some glauconite.  Fair. Sand does not look WET.  shaley sand streak at 5377. No el two hours in hole because that oil show on ditch beginning been from this sand. Entire core			
8383	8387	5	31	Sandstone, hard, grey, medium, semented, common source grains Gas, no cut. Shale, soft, silty becoming very sandy at base, greyish brown carbonaceous, no cut, good gas. Bottom 3" is a brownish grey, fine shaley sand. No cut, but it has a slight indefinite odor.				
8387	8397	9	91	No cut, stains ever or gas. Se reservoir though permeability				
8397	<b>8407</b>	7	5章1 1章1	Sand, grey, fairly firm. No od Dark brown shalo, when mud was	lor, no gas, no cut. shed off showed fairly good gas.			
<b>8</b> 107	8417	É	6.	Sand, firm with few soft streemedium massive, silty, ill some cut. No gas.	iks, grey, slightly riable, rede, compact, no stains, pdor			
6417	<b>6427</b>	9	91	Sand as above. No gas.	TAVISION OF OIL AND GAS			
6427	<b>8437</b>	11	110	Sand as above. No gas.	<b>PECEIVED</b> SEP 18 1941			
8437	8447	10	101	Sand as above. No gas.	MALINGA, CALIFORNIA			
6447	8457	10	101	Sand, as above with hard demen	근데 교통 중에 가장이 있었다. 그런 이 얼굴하고 살이다.			
8457	<b>8</b> 466	1	11	Sand, same as core above. No s	gas or odor.			
8466	8470	2	21	Firm to hard grey, medium grai sections. No cut, no odor, no	ined sandstone. Breaks into 2-2s gas.			
<b>64</b> 70	8473	611	611	Brown and grey hard sandy shale, some gas.				
8473	<b>6</b> 480	21	15°	Hard grey sand, very firm. Brown shale, some gas on shale but none on sand. No cut, no odor.				
<b>8480</b>	8488	g	81	Firm to medium, hard grey sand	l. Fine to medium grain. Slight			

gas showings. No odor, no sut.

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Oil Compa	ny -	Cheney	Bench #1 Sec 29, 11/13
8498	10	101	5% Firm to hard grey medium gray mand. 1% Brown shale, no gas. 4% Firm to medium hard gray, medium gray sand. No gas, no odor.
8508	10	101	Firm to hard, groy sand. Fine to medium grained. No gas, no odor. No cut.
8518	10	101	Mark gray, tight send. Fine to medium grained. Bottom 3' not so firm, breaks up in smaller pieces, no gas, no odor, no sut.
8528	7	41 10 21	Mard, grey, medium grained sand. Brown shale, easily broken into small pieces. Pairly tight, fine to medium grey sand. No odor, no gas, no cut
8538			Sand, grey, firm, compact, friable, medium silty, ill sorted with streeks shale as above. As thick as 6" in 5531-34". Laminations indicate low dips.  Shale, brown, hard, micro-micaceous, much browner than above and not thinly bedded. Common selecteous forems. Few shell fragments including 1/2" of organitic material and one 1/4" Pesten like fragment. Few bubbles of gas in shale. Several elickensided fracture planes in shale at angles of 77-70°. Slickensides show nearly horizontal movement due to coring?
8548	5	51	Sand, gray, firm to soft, massive, friable, slightly silty, misaceous, rather ill sorted. No gas, sand looks WET. Harder sand 5538-461.
\$557		<b>†</b> '	Sand as above in top 310 Shale, hard, greyish brown as preceding shales, streaked with grey sand in lower 210 Some gas bubbles from shale.
8563	5t	5%	Sand, gray, soft, friable, poorly bedded, medium silty, ill sorted, micaceous, some glauconite. No odor, stains, cut or gas. Sand looks WET. Similar to preceding sands. Few streaks of shale as thick as la.
£57 <b>4</b>	10	61 11 31	Sand as above with few atreaks sandy shale as thick as 6s. Sandstone, hard, grey, lime comented. Shale, dark brown, very sandy, bottom 2s is grey sand. No oder, no gas, bottom 1s probably sand.
8585		11 21	Shale, dark greyish brown with numerous streaks grey sand. Sand, grey, soft, loose, similar to preceding with streaks shale up to 4%. Sand looks WKT and tastes salty. Sandstone, hard, grey, lime comented. Shale, hard as preceding but not sandy in upper 1', becoming sandy at base, no gas.
8596 NOF OIL AND SCEIVED EP 18 194	H	731	Sand, grey, soft, compact, frieble, massive as sands above with 4* hard dense brown shale at 5556. No gas in sand, few bubbles from shale.
	8498 8508 8518 8538 8557 8563 8574 8585	8508 10 8518 10 8528 7 8538 8 8557 1 8563 58 8574 10 8585 8	8508 10 101  8518 10 101  8528 7 41 21  8538 8 61  8557 1 81 21  8563 58 581  8563 5 581  8565 8 11 21  8596 78 781

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<b>6</b> 59 <b>6</b>	8607	7	1. 2. 4.	Sand, grey, soft as above. Shale, dark greyish brown with abundant thin streaks grey sand. Sand, grey, soft as above, no gas.
<b>8607</b>	8616	7	71	Sand, grey, soft as above with 4" shale at 8611'. No gas.
\$61¢	8629	5	21	Sand, grey, soft as above. Shale as above with common streaks grey sand. Sand, grey, soft, friable, medium silty, ill sorted, fairly well bedded. Looks WET. No gas.
8629	864e	13	141	Driller reports soft drilling except 8632-33'. Recovery provably from 8632-34'. Sand with streaks shale. Yes bubbles of gas in shale. Balance of core is soft mand.
<b>86</b> ¥0	8650	9	91	Sand, grey, soft as above core. Rasily broken into small pieces. Last 18s more hard and better hedded, no gas, no odor.
8650	8661		40	All sand except small piece of shale. Sand similar to above core. Slight streaks of shale in spots. No gas, as olore
8661	8672	8	<b>81</b>	Sand, grey, soft, ill sorted, slight spots of shale running through it. Looks wet. Bottom foot more hard with little more shals spots. A very few gas bubbles when pulled from barrel, no odor.
8671	8683	9	91	Sand, grey, soft, friable, compact as above with it sand streaked shale at 5672, it shale at 5675; and le at 5673; no gas, shale at 5675 is fairly dense, dark brownish grey, micaccous, carbonascous with sand spotted pyritized woody fractionts. Possible calcareous forms.
8683	8694	đ	<b>5</b> •	Sand as above with limy sandstone 5654-55; and 5659-90; and 4s sand streaked shale 5655; Few bubbles gas in shale at 5655;
8694	8705	6	61	Friable medium grained, grey sand, parts in \$-5" sections softer than above, no gas, no edor, no out.
8705	8716		31 11	Sand as above. Hard brown shale, very gassy.
8716	5724	7	6#	(approximately) Shale, first core after reaming. Little gas on ditch.
			616#	Sand, medium grained, grey, fairly hard, no gas, no odor. Ereaks into parts la-40, streaks of shale in bottom 2'.
87 <b>2</b> 4	8734	9	10 5½1 2½1	Shale, streaked with sand, a few gas bubbles. Dip 50. Grey sand, fine to medium grained, friable, small streaks of shale running through in places. Hard sandstone, limy. A few gas bubbles on shale. No odor, no out.
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6734	<i>\$1</i> 45	<b>.</b>	21 31 31	Hard sandstone, limy. Grey sand, fine to medium, firm grained with spots of shele. Grey sand, fine to medium grained. Bottom 6" shele, fair gas on shele but none on the send. No odor.
<b>\$74</b> 5	8756			Shale with about equal parts of sand. Driller reports soft digging so it was probably lest. Fairly good gas on shale sors. No odor.
8756	8761	10	<b>1</b> 11	Soft grey sand, entire core probably sand.
8761	8771	1		Shale, very silty and sandy, hard with streaks fine grey sandstone. No gas.
8771	8778	6	<b>21</b>	Hard tight grey sandstone, small particles of shale. Fine to medium grained, hard grey sand. Sand broken up in 1-4- pieces, friable. No gas, no odor. Sands are very micaceous, some glauconite.
\$778	<b>6789</b>	<b>.7</b>	681 69	Fine to medium grained, fairly firm grey sand, friable, breaks into small pieces 1-3".  Shale, silty and sandy, streaked with fine grey sendstone, sand laminations, dip 4-80, somewhat cross bedded, a very few gas bubbles noted, no odor.
8789	<b>క</b> క00	ŧ	81	Fine to medium grained grey sand, frieble, small particles of shale. Breaks into small pieces 2-2". No gas, no odor.
8800	<b>8807</b>	1	1,	Sand, same as core above. No gas, no odor.
REC	FOREAND GAS EIVEN 18 1941	9	61 31	gand, grey, firm to hard, compact, micaceous, poorly sorted, massive to bedded in \$* biscuits, tight, some glauconite, difficulty friable, no gas, no odor. Sandstone, grey, hard, lime comented, as above but harder.
	A, CALICAPUI»			Mo See:
8617	가 되어 걸린 방법이 되는	11	71	Sandstone as above, well bedded ssis-197. Sand, hard, grey, fine, silty as in core above, becoming softer toward bottom, difficulty friable, with 24 hard dense shale at \$5277. Very few gas bubbles in shale.
				이 교육화 왕조는 요. 그래요? 요. 그래요? 하는 그는 그는 그는 그가 하는 것이 없는 그를 가는 그를 가는 그를 가는 것이 하는 것이다.

softer toward bottom, difficulty friable, with 2" hard dense shale at 5527". Very few gas bubbles in shale.

5828 5838 6 22' Sand, hard, grey, fine silty as in core above. Has streaks of shale in top foot.

12' Hard dense shale.

2' Sand, hard, grey, fine to medium, getting softer in bottom foot. Very few gas bubbles in shale, no edor.

5838 5842 3 3' Sand, hard, grey, fine, streaks of shele, running through, a little harder than bottom of core 5817-28, Core stayed in barrel while coming out of hole. No gas.

8842 8853 11 11: Sand, fairly hard, grey, fine to medium grained, no gas, no coor.

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Jergins	otl	Compa	ny -	Chene	y Rene	h #1

<b>6</b> 853	8854			Gord gay
6854	8866			Sand, grey, firm, compact, fairly well bedded, fine, ill serted, micaceous, similar to preceding sands with he shale, hard brown, silty with sandy spots at 6559'. No oder, no gas in shale.
8866	<b>8</b> 877	8	81	Sand as above but softer and a little more friable with shaley laminations at 5566'. Dipping 11° and 1° shale at 5569'. Sand looks were as do preceding sands. No oder, no gas.
8877	8668	9	91	Sand, as above but softer and well bedded, splits into 1/4-3/4* biscults with 4" shale streaked with sand at 5551, few bubbles of gas from shale, no odor. Coarse mica flakes at 5551. A l* line shall at 55542.
5855	<b>8890</b>	40	4.	Sand as above, bottom l'of core drilled very slowly, possibly because bit was bad.
<b>8890</b>	8901	11	24' 42' 32'	Sand, grey, firm, fine, well bedded. Hard dense shale, calcareous forams rare, including Nodosaria, Yery hard limy sandstone, very hard to drill. Sand in top part of core, a little finer grained and better bedded. No odor, no gas.
8901	6911	10	101	Sand, grey, firm, fine to medium grained, alightly tighter and cleaner than last core. No gam, no odor.
8911	<b>8916</b>	*	**	Hard, lime cemented sandstone, core drilled very slewly, possibly because bit was bad, no gas, no odor.
8916	8927	11		Sand, grey, hard, fine, massive to poorly bedded, poorly sorted, micaceous (large flakes biotite of phologopite) with streaks firm sandstone. ** shale at 5924; showed New bubbles of gas, no odor, no gas in sand.
8927	8938		8.	Send as above with few streaks hard send and few streaks soft sand, probably not recovered, no odor, no gas.
8938	8945	3	11	Sand, hard, grey, shaley and shale streaked with streaks firm sandstone, poor dips 11°.
RE SE	OF, OIL AND CETVET P 18 1941 IGA, CALIFOR			Shale, very hard and dense, slay, dark greyish brown, brittle, compact but slightly spalling, well bedded, rare fish remains one spine, few forems including one pyritized Nodesaria, good to dips, no gas noted.  Top of shale 8941.
8945	8954	311	<b>3.</b>	Mard dense shale as above, entire sample placed together. For bubbles of gas.
g954	8957	0	01	Cored like shale, perhaps a little softer at bottom.
8957	8967	7		Shale as above but badly fractured and few slickensides with 2" streaks hard grey sand at 5961' and 5963', few forams? no gas, top 2' drilled soft, either soft sand of fractured

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Jergins.	011	ompan	y – gh	eney	aench	和

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6957	8967	(Cont	4)	shale. Sand-shale contacts at 8961, dip 34°.
8967	8969			Shale as above but unusually hard, dense, porcellaneous and not fractured. No gas noted, becoming sandy and limy in bottom of.
<b>8969</b>	8978		5·2" 6" 1' 1·6" 4" 6"	Shale, very hard and dense as above, rare bubbles of gas. Sand, grey, fine streaked with shale, no odor. Shale, streaked with sand. Sandstone, grey, fine, firm, tight, limy, no odor. Shale as above. Sand, grey, hard at bottom of core.
<b>6</b> 976	8986	8	81	Shele as above, rare forms, Includes 6° hard sandstone at 8980 and 8983, no gas, no odor, no cut.
<i>t</i> 986	<b>≸99</b> 0		40	Shele as above with few streaks hard grey fine sandstone, no gas, dips 50±, sandstone in bottom in is a dike.
<b>8</b> 990	8998		91	Shale as above, exterior smooth and polished 8990-93; where it drilled very slowly, pitted 8995-96; core cracks while drying due to expension, no gas, 4; hard fine grey sandstone at 8994. Dip 4-5°.
<b>8</b> 998	9009		6	Shale as above with 1* fine grey sandstone streaks at 6998 and 9000; and 1/6° streak at 9002°. A low angle calcite filled slickensided fracture at 9000°, few fish remains, few possible forame at 9003°, no gas, dip 4°.
9009	9019		12.	Shale as above, possibly calcite shell fragment at 9014', no gas, dip averages 4°. For rare forams including Nedosaria? shale in streaks is more clayey than above, occasional fish remains, carbonaccous woody fragment at 9015'.
9019	9030			shale as above with \$" fire grey hard sand at 90292'. Rare forms except 9025' where there are several in a silty streak, also sporbitic material, fish remains, no gas, carbonaceous spots.
9630	9040	21	<b>23</b> 1	Shele as above, broken into small pieces in top 21, with 60 sandstone, grey, fine, hard, micaceous (large flake of biotite) at 90311. No gas, entire core drilled like shele.
9040	9048	5音	731	Shale as above, no gas, fish remains, occasional forams, especially at 9041.
QE.	<b>9058</b> I <b>o</b> f oil an <b>XEIVEI</b> P <b>1</b> 8 194		9.	Shale as above, few silty and sandy spots near bottom, scattered pearly shell fragments 9052-57°, fish remains, forame?, carbonaceous spots, numerous stems, perhaps of Sryzoa at 9053°, very unusual highly colored (red and green) shell fragment? at 9056°. He gas.

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1	e	ľ	8	11	1.5	•	E	)1	1	C	C	Ħ	ľ	ð	U	3	7	-	O	h	0	n	ĕ	y		R	0	n	ø	b	Ħ	1	
			1	-	-								-	_					_						1.7						 _		

DALINGA, CALIFORNIA

sec. 29, 14/13

9058	9065	2 <del>1</del>	231	Shale, similar to above but silty and sandy spots and lam-
				ination, fine grey sand, shell fragments, rare bubbles of gas, few gritty spots, few forams, very odd looking beds, tubular shale, filled impressions at 9060 may be worm holes.
9065	9069	3	3	Shale as above, silty and sandy spots and partings, tubular impression at 9067 as above, spines, fish remains, forams, few shell fragments. A spot of dark green mineral at 9066. No gas, common forams at 9066, Nodoseria.
9069	9080	0	01	Driller thought shale.
9050	9086			Shale as above but uniformly silty, except in bottom l' where it is clayey, with few small sand spots and few laminations fine grey sand, well bedded, few gas bubbles. Occasional calcareous foram.
9086	9096			Shale, slightly silty as above, fairly common calcareous forams including Nodesaria at 9089', also very small pearly shell fragments. No gas, entire core drilled like shale. Few small sandy spots. 2" spot of gilsonite? at 9089'.
9096	9106	0	01	Driller thought probably sandy or retten shale.
9106	9109	0	01	Drillers' log:- 9106-07' shale; 9107-08' send; 9108-09' shale.
9109	9114	뱌	121	Shale as above only slightly silty, no gas. Driller thought 1t might be sand 9110-14'.
9114	9117	0	01	Cored like sand or retten shale. A dozen 1/4" chips of brown shale in catcher but these were rounded and were probably gavings.
9117	9 <b>122</b>	611	4.n 2n	Shale as in core 9109-14. Core is only 3/4" in diameter. Cored like hard shale. Sandstone, hard, grey, fine.
9156	9127	0	06	Cored like hard shale. One is rounded thip ox hard shale in catcher. Sample from shaker taken at 9127. Shale as above with only 2-36 sand.
9127	9132	0	61	Cored like shale. One 1/4" piece shale in core catcher as above. Sample taken from shaker at 9132 was shale as above with 1-2% grey sand.
9138	9134	•	01	Proably shale as above. Two 1/5" chips crumbly shale behind eatcher as above. It of slightly silty shale as above and 1" fine grey sandstone in drill collar pulled at 9134".
9134	9139	3"	3"	Shale, similar to above, slightly silty, sand spotted and
RE	OF CILAND CEIVED P 18 1941			streaked with fine grey sand. No gas, all or some of shale is hard, part is flaky, grumbly and soft.

9139	9143	7	7•	Shale, hard, dense, slightly brittle, dark greyish brown, slightly silty, well bedded, compact, fractures some but not bedly, similar to shales in cores 9089-96' and above but does not seem as dense or hard. No gas, common forams including Nodosaria. There was a 1/4" rounded pebble of dark volcanic rock at top of core. This together with presence of 3/4" rounded pebble of volcanic rock at top of core 9109-14 indicates we have drilled through something like a conglomerate between 9100-9137'.
9143	9150	9	ች፣ 5፣	Shale as above but more silty and less well bedded, few forame, Some gas. Siltstone, dark brown, firm, much as shale above but poorly bedded, with common streaks and splotches fine grey sandstone becoming sandier toward base. Includes 1/2% sand, greyish brown, firm, very fine, very silty, shale-splotched. No cut, Bottom 1' of core has burned odor. Fairly good bubbles of gas Fairly soft flaky sandy material at extreme bottom.
9150	9 <b>161</b>	11	61 21 31	Siltstone, dark brown with very common streaks fine grey sandstone. Gas. Sandstone, grey, brown, fine, tight. Gas. Siltstone as above with streaks sandstone. Gas. No odor or out in sands but fair gas throughout core. Core is 30% sand.
9161	9173	12	12,	Siltstone as above with thin streaks of grey sand. 25% sand.
9173	9182	3 <b>"</b>	3*	Siltstone with streaks of sand as above, few gas bubbles. Better bedded than above and might be termed a silty shale with streaks of sand. 10% sand.
9182	9192	2 <del>1</del>	2è,	Shale and siltstone as above with few thin streaks of fine
্র	RECEIVE SEP 18 19	EP	\$	grey sand, grading into soft, mundy, very flaky dark shale in lower l. This is probably what has been lost in previous cores. Abundant fish remains, few forams and 2 large pearly shall fragments in upper 21. Few bubbles of gas.  Note: Softer flaky shale did not core any different from
A11 and and	DALINGA, CALI			balance of shale.
9192	9197	0	01	Cored like soft shale or sand.
9197	9 <b>2</b> 07	ž	Ž.	Shale, hard, silty, dark brown, calcitic spots. No gas, Entire core placed together. Bottom 2' softer. Sample from shaker representing drilling at 92002 was flaky dark shale with chips (5%) fine grey sand. Shale chips are noticeably small.
9 <b>2</b> 07	9212	0	0+	Cored like shale. Samples from shaker consist of flaky shale with very little sand.
9212	9217	4	<b>4</b> +	Siltatone and shale with common thin streaks and spletches of fine grey sand. shell fragments. No gas, 10% sand.

9217	9 <b>22</b> 7	11	11•	Siltatone and shale 9216-20: becoming much better bedded, alightly silty shale 9220-27 with 2: hard gray fine sandstone at 9221: and 1: of similar sandstone at 9221: Forams including Nodosaria. Abundant shell fragments, small to large, including one large fragment showing coils. This is crushed and contorted but is probably Inoceramus. No gas, Bottom 3: is a little harder? Dip 5-6°, best and average 4°.
9227	9237	10	101	Shale, hard, dark greyish brown, slightly brittle, slightly silty, well bedded, fractures readily as shale above. Abundant pearly shell fragments with organitic structure. No gas. Dip 4-5°. 1° fine grey sand at 9234°. Forams.
9237	9247	10	101	Shale as above, very little send. Abundant pearly shell fragments. No gas, bottom l' looks same.
9247	9 <b>2</b> 57	9	91	Shale as above with very thin streaks fine grey sand. Bottom is is cross bedded, fine grey sandstone. Few foress, shell fragments. No ges.
9257	9 <b>2</b> 67	10	10:	Shale as above becoming more silty and not as well bedded 9265-67: Bottom 3: typical shale. Forums, shell fragments. No gas, few very thin sand streaks.
9267	9277	ಕ	ģ1	Shale as above but fractures more readily. Forams, shell fragments. No gas, few very thin streaks grey sand.
9277	9284	10	101	(3' pick up) Shale as above becoming more clayey, soft and crumbly in lower 5' with 3" streak of fine grey shaley sandatone at 9252'. Forems, fish scales, few shell fragments. No cas, spines.
9254				TOTAL DEPTH
Redrill	; <del></del>			
7017	7027	211	2n	Sand, grey, fairly soft, friable, fine but poorly sorted, massive, rather tight. Permeability looks low. No out or staining. Slight sweetish and gasoline odor. No evidence of mid infiltration especially in best fairly compact piece lalong.
7027	7033	. 0	01.	7027-32 cored like sand; 7032-33 driller thought shale;
7033	7180		•	Core gap
<b>9180</b>	7190	7	71	Sand, grey, soft to compact, friable, fine, rather poorly sorted, massive, glauconitic. Permeability looks fairly low, but sand is fair reservoir. Sand does not look WET. No cut or stains, strong gasoline odor which persists. No evidence of infiltration of mud.
9284				TOTAL DEPTH SEP 18 1941

Not proof read - Ej

DALINGA, CALIFORNIA

## DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Jergins Oil Company	Field	Panoche Area	
Well No. Cheney Ranch #1	Sec. 29	, T. <u>14S</u> , F	R. 13E , MD B. & M.

· · · · · · · · · · · · · · · · · · ·		FC	PRMATION	S PENETR	ATED BY WELL
DEPT	H TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
O O	291	291'	Cored		gravel, sand and clay
291	1400	1091			clay
400	529	1291	: .		clay and sand
					Set 13-3/8" at 529
529	534	51			clay
534	561	271			Core #1
561	835	2741			sandy shale
835	922	87*			tough shale
922	1085	1631			shale
1085	1105				Core #2
1105	1163	58+			sandy shale
1163	1179	161			sharp sand
1179	1198	191	·	• .	sandy shale
1198	1240	42+			shale
1240	1267	271		• . •	sand and shale
1267	1325	581			sand and shale
1325	1345				Core #3
1345	1410	651			sand Western of Oil ANS GAS
1410	1482	721		*	sand and shale SEP 18 1941
1482	1615	1331			sand and clay
1615	1625	10+			tough shale
1625	1900	2751			sandy shale
1900	1982	821			sandy shale, streaks hard shale
1982	2006				Core #5

### DIVISION OF OIL AND GAS

#### LOG AND CORE RECORD OF OIL OR GAS WELL

Operat	tort	ergins	Oil Company	 Fi	eld Panc	che	Ares.			·
•				• • •						
Well 1	No	Cheney	Ranch #1	Sec	29	T	148	. R. 135	MD	B. & M.
					•			,	,	

·		FC	RMATION	S PENETRA	ATED BY WELL
DEPT Top of Formation	H TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
2006	2118	241	Cored		sandy shale, streaks hard shale
2118	2249	1311			sandy shale and clay
2249	2254	51			hard shell
2254	2294	40.			sandy shale
2294	2314	e e			Core #6
2314	2455	141.		•	sandy shale
2455	2534				Cored #7, 8, 9
2534	26 <b>16</b>	82+			elay, streaks hard shale
2616	2642				Core #10
2642	2745	1031			sticky clay
2745	2773				Core #11
2773	2824	51,			sticky clay
2824	2919	951			clay
2919	2945			·	Core #12 VISION OF OIL AND GAS
2945	2967	221			SEP 18 1941
2967	2997	301	,		shale DALINGA, CALIFORNIA
2997	30 <b>30</b>	331			sandy shale
3031					continuous cores to 3888
3888	3931	431			sha <b>le</b>
3931	3968	371			shale and sand streaks
3968	4278	3101			shale
4278		*			continuous cores 4278-9284
		• •			
	1	1	l ·	1	

#### DIVISION OF OIL AND GAS

### Special Report on Operations Witnessed

						No. <b>T</b>	5-2754
		Coalinga	; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Calif.	March	26,	1940
Mr. Warre	en W. O'Kane			•			
Hote	L Tranquillity	, Tranquillity,	Calif.		FICE		7-11
	Agent for	JERGINS OIL COMPANY		) -		J. J. J. J.	
Dear Sir:	-				garingan madhadh dhan an an an dhiridh a dhir		
Operat	ions at your well N	o."Cheney Ranch" 1	Sec. 29,	T. 14 S.	, R.13 E.	, <u>N.</u> ]	D. B. & M.,
	XXXXX	Field, in	Fresno	····	Coun	ty, were	witnessed by
		R. G. Frame			, representa	tive of tl	he supervisor,
on Marc	h <b>23</b> , 19	40. There was also presen					
Driller			7,			·	
		' cem. 529'; 8-5/8" (					
W. S. O	.; T. D. 7580	, bridged with cemer	t 6682 *-669	95*.		·····	
						·	
The op	erations were perfor	med for the purpose ofin	specting bl	ow-out pr	evention	. equip	ment.
and the data	a and conclusions are	e as follows:					
The wel	1 was standin	g subsequent to test	of shut-of	r.			
Thorous	h inspection	showed the equipment	installed	on this	late to b	e sati	sfactory.

RGF:my cc - Company, LB

15

R. D. BUSH

State Oil and Gas Supervisor

By Dodd

Deputy

## DIVISION OF OIL AND GAS

## Report on Test of Water Shut-off

Hotel Tranquillity,  Agent for JERGINS CIL COMPANY  Dear Shr:  Your well No. "Cheney Ranch" 1 , Sec. 29 , T. 14 S. , R. 13 E. , M. D. B. & M.  XXXX								No. T	-8/05
Agent for JERGINS OIL COMPANY  Your well No. "Cheney Ranch" 1 , Sec. 29 , T. 14 S. , R. 13 E. , E. D. B. & M  TAXXX Field, in Fresho County, was tested for shut-off of water on March 25			•	Coalinga,		Calif	March 26,	)	19 40
Hotel Tranquillity,  Agent for JERGINS CIL COMPANY  Dear Shr:  Your well No. "Cheney Ranch" 1 , Sec. 29 , T. 14 S. , R. 13 E. , M. D. B. & M.  XXXX	Mr.	arren W. O'K	ene						
Agent for JERGINS OIL COMPANY  Your well No. "Cheney Ranch" 1 , Sec. 29 , T. 14 S. , R. 13 E. , E. D. B. & M  TAXXX Field, in Fresho County, was tested for shut-off of water on March 25	Ho	otel Tranqui	llity	C lif			ووروس بدويسون ويعطانانا		777
Your well No. "Chency Rench" 1 , Sec. 29 , T. 14 S. , R. 13 E. M. D. B. & M  XXXX Field, in Fresno County, was tested for shut-off of water on March 23 , 1940 Mr. R. G. Frame  shut-off of water on March 23 , 1940 Mr. R. G. Frame  designated by the supervisor, was present as prescribed in Sections 3222 and 3223, Chapter 93, Statutes 1939, and there were also present H. R. Gemphell, Enginear, and W. Goodcell, Driller.  Location of water tested above 6676! and normal fluid level not determined  Depth and manner 6676 ft. of 9-5/8 in 36.2 38 lb. casing was commended in shele for water shut-off: at 6676 ft. of 9-5/8 in 36.2 38 lb. casing was fluid for manner 6676 ft. with 356 sacks Victor a. w., h. t. cement by 3/15/40 metho  Water string was landed in 12-2" rottery had been greated at 6659 ft. with 356 sacks Victor a. w., h. t. cement by 15/15/15/15/15/15/15/15/15/15/15/15/15/1									
Your well No. "Cheney Ranch" 1 , Sec. 29 , T. 14 S. , R. 15 E. , M. D. B. & M  XXXX Field, in Fresno County, was tested for shut-off of water on March 23 , 19 40 Mr. R. G. Frame  designated by the supervisor, was present as prescribed in Sections 3222 and 3223, Chapter 93, Statutes 1939, and there were also present H. R. Camphell, Enginear, and W. Goodcell, Driller.  Location of water tested above 6676? and normal fluid level not determined  Depth and manner of 6676 ft. of S-5/8 in 38 & 38 lb. casing was {cemented } in shale flow water shut-off; ft. of in lb. casing was {cemented } in shale flow water shut-off; ft. of in lb. casing was {cemented } in shale flow water shut-off; ft. of in lb. casing was {cemented } in shale flow water shut-off; ft. of in lb. casing was {cemented } in shale flow water shut-off; ft. of in lb. casing was {cemented } in shale flow water shut-off; ft. of in lb. casing was {cemented } in shale flow water shut-off; ft. of in lb. casing was {cemented } in shale flow water shut-off; ft. with 356 sacks Victor o. W. + t. cement by Basing method water string was landed in lb. casing was flow was landed in lb. casing was flow water shut-off; ft. do for in shale flow water shut-off; ft. with water to the trip valva at 5760. the look bidged/from6682 ft to 6695 ft. Hole cleaned out to 6682 ft. for this tes see below oil balled to ft. do for in shuth water to inside for 5 minutes without loss.  2. Forty-three feet of set cement was drilled out of the 8-5/8" casing, equivalent to 12 sacks. No cement was drilled out before the casing test was made.  3. A Johnston tester was run as noted above.  4. The tester valve was opened at 9:29 a. m., March 23, 1940, and remained open for one hour. There was a light blow of air during the first 20 seconds of this interval and no blow thereafter.  5. Sixty stands of drill pipe had been pulled, and 15 stands, a 20' drill collar and the tester remained to be pulled.  6. The top of the fluid in the drill pipe was located at 5755*, or 25* above the trip valve.  7.	T> C		JERGINS OI	L COMPANY			\	VELL	
AXXXX Field, in Fresho County, was tested for shut-off of water on March 23			24 .1 68	**		· •			
shut-off of water on March 23 The said date The said date The said date tested designated by the supervisor, was present as prescribed in Sections 3222 and 3223, Chapter 93, Statutes 1939, and there were also present. H. R. Comphell, Engineer, and W. Goodcell, Driller.  Location of water tested above 6676. and normal fluid level not determined  Depth and manner 66676 ft. of 8-5/8 in 36.8.38 lb. casing was 6676 ft. of said water shut-off: at 6676 ft. with 356 sacks. Victor 0. W., h. t. cement by 638ing metho 638ing record of well 13-3/5" cem. 329!; 8-5/5" as above; Johnston tester on 4½" drill pipe, packer at 6659!; parf. tail and pressure bomb to 6678', filled with water to the trip valve at 5760'.  Reported total depth of hole measured. belowft and bailer brought up sample of.  At time of test depth of hole measured. belowft and bailer brought up sample of.  At see below of the Well AT 12:40 P. M. AND MR. CAMPRELL REPORTED:  1. The 8-5/8" casing was tested by applying a pressure of 500 lb. to the inside for 5 minutes without loss.  2. Forty-three feet of set cement was drilled out of the 8-5/6" casing, equivalent to 12 sacks. No cement was drilled out of the 8-5/6" casing, equivalent to 12 sacks. No cement was drilled out before the casing test was made.  3. A Johnston tester was run as noted above.  4. The tester valve was opened at 9:29 a. m., March 23, 1940, and remained open for one hour. There was a light blow of air during the first 20 seconds of this interval and no blow thereafter.  5. Sixty stands of drill pipe had been pulled, and 15 stands, a 20' drill collar and the tester remained to be pulled.  6. The top of the fluid in the drill pipe was located at 5755', or 25' above the trip valve.  7. The drill pipe pulled prior to the arrival of the Engineer was all empty.	You	r well No. <u>"Une</u>	ney kench"	L, Sec	. Z9, T. <u>14</u>	: 3. , R	<u>. 10 h.</u> ,	M. U.	B. & M.,
designated by the supervisor, was present as prescribed in Sections 3222 and 3223, Chapter 93, Statutes 1939, and there were also present. H. R. Gamphell, Enginear, and W. Goodcell, Driller.  Location of water tested above 5676! and normal fluid level not determined  Depth and manner of 5676 ft. of 8-5/8 in 36.8.38 lb. casing was cemented in shale remarks at 6676 ft. with 356 sacks Victor o. W., h. t. cement by 3/15/40 method water string was landed in 12½ rotary ho. t. cement by 5/15/40 method casing record of well 13-3/fb cem. 529:; 8-5/fb as above; Johnston tester on 4½ drill pipe, packer at 6659:; nerf. tail and pressure bomb to 6678. filled with water to the trip valve at 5760.  Reported total depth of hole 7580 ft. Hole bridged/from 6682 ft. to 6695 ft. Hole cleaned out to 6682 ft. for this test and attered to the state of test depth of hole measured below ft. and bailer brought up sample of.  At see below of below of below ft. and bailer brought up sample of.  At reserved to the state of the trip valve at the state of the trip valve at 55/8" casing was tested by applying a pressure of 500 lb. to the inside for 5 minutes without loss.  2. Forty-three feet of set cement was drilled out of the 8-5/8" casing, equivalent to 12 sacks. No cement was drilled out before the casing test was made.  3. A Johnston tester was run as noted above.  4. The tester valve was opened at 9:29 a. m., March 23, 1940, and remained open for one hour. There was a light blow of air during the first 20 seconds of this interval and no blow thereafter.  5. Sixty stands of drill pipe had been pulled, and 15 stands, a 20' drill collar and the tester remained to be pulled.  6. The top of the fluid in the drill pipe was located at 5735', or 25' above the trip valve.  7. The drill pipe pulled prior to the arrival of the Engineer was all empty.		XXXXX		Field, in	Fresno		C	ounty, was	tested for
designated by the supervisor, was present as prescribed in Sections 3222 and 3223, Chapter 93, Statutes 1939, and there were also present. H. R. Camphell, Enginear, and W. Goodcall, Driller.  Location of water tested. above 6676! and normal fluid level. not determined  Depth and manner of the first of t	shut-off	of water on	March 23		, 19 40 .	Mr. R.	G. Frame		
Location of water tested above 6676' and normal fluid level not determined  Depth and manner   6676 ft. of 8-5/8 in. 36 & 38 lb   casing was { cemented   in. shale   ft. of   in.   lb   casing was { cemented   in. shale   ft. of   in.   lb   casing was { cemented   in. shale   ft. of   in.   lb   casing was { cemented   in. shale   ft. of   casing was   ft. of   casing was   ft. of   ft. of   casing was   ft. of	designate	ed by the supervise			Sections 3222 and 32	223, Chapte	r 93, Statutes	1939, and	there were
Location of water tested above 6676! and normal fluid level not determined  Depth and manner   6676 ft. of 8-5/8 in 36.2 38 lb. of water shut-off:   ft. of in lb.   casing was   cemented   in shale   shandsukt   Formation   3/15/40   method   standsukt   Formation   3/15/40   method   standsukt   Formation   3/15/40   method   shale   shale	_					=			
Depth and manner of water shut-off:   ft. of in lb casing was cemented thanded:  ft. of in lb casing was cemented to be casing was cemented to casing was cement was drilled out of the casing test was made.  for the casing was cement was drilled out of the 8-5/8" casing, equivalent to 12 sacks. No cement was drilled out before the casing test was made.  The tester valve was opened at 9:29 a. m., March 23, 1940, and remained open for one hour. There was a light blow of air during the first 20 seconds of this interval and no blow thereafter.  Sixty stands of drill pipe had been pulled.  The try valve.  The drill pipe pulled prior to the arrival of the Engineer was all empty.	also prese	IIIiiaiiaii	miner r. a. min	مناهدة والمتعادلين	the months of the first	-tilde de de de Ville.	9		
Depth and manner of water shut-off:   ft. of in lb casing was cemented thanded:  ft. of in lb casing was cemented to be casing was cemented to casing was cement was drilled out of the casing test was made.  for the casing was cement was drilled out of the 8-5/8" casing, equivalent to 12 sacks. No cement was drilled out before the casing test was made.  The tester valve was opened at 9:29 a. m., March 23, 1940, and remained open for one hour. There was a light blow of air during the first 20 seconds of this interval and no blow thereafter.  Sixty stands of drill pipe had been pulled.  The try valve.  The drill pipe pulled prior to the arrival of the Engineer was all empty.									
Water string was landed in  12\frac{1}{4}\text{** rotary} & \text{hotor o. w., h. t. cement by \frac{5710}{638}\text{ing method} \text{ Molecular Size, received cable tool} \text{ Size, received cable tool} \text{ At drill pipe, packer at 6659'; parf. tail and pressure bomb to 6678', filled with water to the trip valve at 5760'.  Reported total depth of hole7580 ft. Hole bridged/from6682 ft. to 6695 ft. Hole cleaned out to 6682 ft. for this test see below \text{ Time and date} \text{ Size below ft. and bailer brought up sample of.} \text{ At time of test depth of hole measured below ft. and bailer brought up sample of.} \text{ At \text{ Time and date} } \text{ top of oil found at ft., top of fluid found at ft.} \text{ Time sand date} \text{ Time and date} \text{ Time and date} \text{ top of oil found at ft., top of fluid found at ft.} \text{ Time sand date} \te									
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Water string was landed in  12\frac{1}{4}\text{** rotary} & \text{hotor o. w., h. t. cement by \frac{5710}{638}\text{ing method} \text{ Molecular Size, received cable tool} \text{ Size, received cable tool} \text{ At drill pipe, packer at 6659'; parf. tail and pressure bomb to 6678', filled with water to the trip valve at 5760'.  Reported total depth of hole7580 ft. Hole bridged/from6682 ft. to 6695 ft. Hole cleaned out to 6682 ft. for this test see below \text{ Time and date} \text{ Size below ft. and bailer brought up sample of.} \text{ At time of test depth of hole measured below ft. and bailer brought up sample of.} \text{ At \text{ Time and date} } \text{ top of oil found at ft., top of fluid found at ft.} \text{ Time sand date} \text{ Time and date} \text{ Time and date} \text{ top of oil found at ft., top of fluid found at ft.} \text{ Time sand date} \te	of water	shut-off:	ft. of	in	lb.\ cas	ing was	xlandedx }	Form	ation
Water string was landed in 12½ rotary Size, receive or cable tool  Casing record of well 13-3/8° cam. 529¹; 8-5/8° as above; Johnston tester on 4½ drill  pipe, packer at 6659¹; perf. tail and pressure bomb to 6678¹, filled with water to  the trip value at 5760¹.  Reported total depth of hole 7580.ft. Hole bridged/from 6682 ft. to 6695.ft. Hole cleaned out to 6682.ft. for this tes  At time of test depth of hole measured below ft. and bailer brought up sample of  At see below oil bailed to ft., drilling fluid swabbed to ft., top of fluid found at ft., top of fluid found at ft.  Time and date  THE ENGINEER APRIVED AT THE WELL AT 12:40 P. M. AND MR. CAMPRELL REPORTED:  1. The 8-5/8° casing was tested by applying a pressure of 500 lb. to the inside for 5 minutes without loss.  2. Forty-three feet of set cement was drilled out of the 8-5/8° casing, equivalent to 12 sacks. No cement was drilled out before the casing test was made.  3. A Johnston tester was run as noted above.  4. The tester valve was opened at 9:29 a. m., March 23, 1940, and remained open for one hour. There was a light blow of air during the first 20 seconds of this interval and no blow thereafter.  5. Sixty stands of drill pipe had been pulled, and 15 stands, a 20' drill collar and the tester remained to be pulled.  6. The top of the fluid in the drill pipe was located at 5755¹, or 25¹ above the trip valve.  7. The drill pipe pulled prior to the arrival of the Engineer was all empty.	at 667	6 ft. with Z	50sac	ks Victor	o. w., h. t. c	ement by	3/15/40 casing	3	method.
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Reported total depth of hole 7580 ft. Hole bridged/from 6682 ft. to 6695 ft. Hole cleaned out to 6682 ft. for this tes  At time of test depth of hole measured below ft. and bailer brought up sample of  At see below oil bailed to ft., drilling fluid swabbed to ft., drilling fluid swabbed to ft., top of fluid found at ft., top of fluid fluid in the drill pipe was located at 5755, or 25, above the trip valve.  7. The drill pipe pulled prior to the arrival of the Engineer was all empty.	the tr	ip valve st	5760°.		***************************************				
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At	At	see below	<b>F</b> e and date	oil l	pailed to	ft., drill	$\begin{cases} \log \text{ fluid} \end{cases} \begin{cases} \text{ball} \\ \text{swa} \end{cases}$	ibbed to	ft.
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7. The drill pipe pulled prior to the arrival of the Engineer was all empty.		the trip va	ilve.		,				- <del>1</del>
K. D. BUSH	7.	The drill	pipe pulled	prior to t	he arrival of R.D.BUSH	tne Eng	ilneer was	att em	<i>3 6 y</i> •
(Continued on page 2)  State Oil and Gas Supervisor	(Conti	nued on neo	a 2)	/		as Supervisor			
I work warman am harde at	( a out 0 z	Tranc an has	,	1150	_				_
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#### DIVISION OF OIL AND GAS

# Report on Test of Water Shut-off

No. T 5-2753

Page 2

Special Report on Operations Witnessed

JERGINS OIL COMPANY

Well No. "Cheney Ranch" 1 , Sec. 29 , T.14 S. , R. 13 E. , M. D. B. & M.,

#### THE ENGINEER NOTED:

- 1. The fluid in the remaining drill pipe and the tester was all clear fresh water, except for about 40° of medium mud fluid on bottom.
- 2. The pressure bomb chart failed to function properly.

The test was completed at 1:30 p. m.

THE SHUT-OFF IS APPROVED.

RGF:my cc - Company, LB

R. D. BUSH

State Oil and Gas Superyiso

By AVVIOLD Deput

#### STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION
(Time) M. Mar. 23 1940
Company Oergins Oil Es Well No. "Chency Ranch"
Field Frence County Sec. 29 T. 14S R. 13 F, M.D. B. & M.
personal On this date a telephone conversation was held, concerning the above well, with Mr. M. B. Smith, Cong
of the alree Company. W. Gordcell, drill
Details of operations were discussed as follows:
The blow-out prevention equipment indicated below was found to be satisfactorily installed at the well on this date:  1. Shaffer gate for complete shut-off.  2. Shaffer gate with drill pipe rame.
1. Shafter gate for complete shut-off.
2. Shaffer gate with drill pipe rame.
V3. Sections in shafts for remote control of gates.
No. 4. Rosser type head with drill insert and bully insert well modelly
V 5. Alch pressure cate on mid overflow line.
V. High pressure pate and fittings on fill-up line.
V7. Stop cook on kelly or selval.
MA 300 cook in stand 310.
V 9. Hotery hope. Hi five 10. tout or
83/8" -cem 5-29' 83/8" -cem 6676. W.S. Q
T.D. 75-80"
The well was being drilled and the dayler of

#### Coalinga, California March 18, 1940

Jergins Oil Company 1000 Jergins Trust Building Long Beach, Galifornia

M

Gentlemen:

Confirming my telephone conversation of March 15 with Mr. Perry Campbell, Geologist:

It is my understanding that you will cement 8-5/8" casing at 6690' at well No. "Cheney Ranch" 1, Sec. 29, T. 14 S., R. 13 E., M. D. B. & M., Fresno County, and that you will place a substantial cement plug below the shoe of the casing at the time it is being cemented.

Please notify this Division to witness a test of the 8-5/8" shut-off.

Yours truly

Deputy Supervisor

ce - Mr. Warren W. O'Kene

## JERGINS OIL COMPANY

#### PRODUCERS OF PETROLEUM

JERGINS TRUST BUILDING
TELEPHONE 7-1231

#### LONG BEACH, CALIFORNIA

January 3, 1940

Mr. H. V. Dodd Division of Oil and Gas State of California Coalinga, California

Dear Sir:

Drilling operations were suspended on Cheney Ranch #1 approximately in July, 1940. Cheney #1 was drilled to a total depth of 9284 feet and subsequently plugged back to 7215 feet with 8-5/8 inch casing set at 6676 feet. We have suspended operations on this well awaiting the outcome of Cheney #2. If Cheney #2 proves commercially productive, we will redrill Cheney #1.

Cheney #2 was standing cemented on December 31 with 7 inch pipe set at approximately 7200 feet and the hole plugged back to 7280 feet from 7355 feet. We expect to make a test on this well within the next ten days.

I regret that our Mr. Campbell is not in this office at the present, and has with him all the available data on these wells, and I, therefore, cannot give you all the information you require. If we are successful in Cheney #2, we will make available to you all the information on both wells immediately.

Very truly yours,

ALLEN JERGINS

Jergins Oil Company

AAJ:CH

N. B. 19/4/

RECEIVED
JAN 6-1941
PALINGA, CALIFORNIA

ur (v)

HVD:my

cc - Mr. Jergins

## STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

### Report on Proposed Operations

4					No.	P 5-52	109
		Coalinga,		Calif	November 6,	19	9 <b>39</b>
Mr. A. A.	Jergins						
1000 Jergin	ns Trust Bldg.,	Long Beach, C	alif.		PROSE	5000	
<b>A</b>	tgent for JERGINS	OIL COMPANY			. I (OO) VEI		
Dear Sir:				-	The state of the s	and the second of the second o	النح جيجت
Your_		proposal to	drill	Well 1	Vo. "Cheney 1	lanch" 1	<u></u> ,
Section29,	T.14 S., R. 13 E.,	M.D. B. & M.,	XXXXX	Field,	Fresno	Co	unty,
dated Oct. 31	L, 1939 , received $N$	ov. 2, 19 39	has been examined	ł in conjunctio	on with records fi	led in this	office.
Presen THE NOTICE "The wel The elev We estim at a dep PROPOSAL: "We prop landing Size of	t conditions as shown	by the records and to and 330 feet ound above sea ret productive 0 \( \precede * feet." \)  following striindicated: ght, Lb.	the proposal are as  E. from NW  Level is 39  oil or gas  ngs of casin	follows: Cor. Sw. O feet. sand shoul	ld be encour	rtered	
other pi Well is It is un	s a prospect ho pe strings will to be drilled w derstood that i ou before cemen	be determined ith rotary too f changes in t	by coring and la. his plan became	nd electri	ical loggine	<b>3</b> *	
This Div	rision has no in ons should be en				oil or gas t	earing	
1. The 2. The of i 3. Wate 4. Adeq oper 5. Mud dril the 6. THIS (a) (b)	POSAL IS APPROV. well shall not 13-3/8" casing t from the shoe er suitable for quate blow-out p ration at all ti fluid of not le ling of the wel surface at all b DIVISION SHALL When a showing Before landing To witness a t	be located with shall be cement to the surface irrigation share revention equipmes.  It is them 70 lb.  It is and the column times, particulation of oil or gas or cementing	thin 100° of the died with suffice of the grould be protected pment shall per cubic for unn of mud follarly while is encounter any casing be	ficient of und. ted from obe provide oot shall luid shall pulling the red. elow the s	ement to fill contamination and ready be used in the bearing to be drill pire	on. of for the ined to	

State Oil and Gas Sypervisor

By \_\_\_\_\_\_

Denuty

#### DIVISION OF OIL AND GAS

### Notice of Intention to Drill New Well

This notice must be given and surety bond filed before drilling begins

9 00190		Long Roach	a is Oats	ahow 71 70
			Calif. 000	ober 31, 19 39
DIVISION OF OIL AND O	GAS H. V. DODI	)		P5-3209
Coa	linga,	Calif.		7 3-
In compliance with Sect	tion 17, Chapter 718, St	atutes of 1915, as amende	ed, notice is h	nereby given that it is ou
intention to commence the wo	ork of drilling well No	Cheney Ranch No. 1	·	Sec. 29 , T. 148
R. 13E , M. D. B. &	M., Panoche Are	ea Field	, Fre	sno County
Lease consists of 960 Acre				•
The well is 330 feet				
THE WEIT ISZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	(Give location in distance from a	section corners or other corners of legal	subdivision)	
The elevation of the grow	iek floor above sea level is	feet.		
C			1 .1 ( 1	. (500 4 *
we estimate that the first	t productive oil or gas sand	d should be encountered at	a depth of abo	out_6500_#tee
We propose to use the fo	ollowing strings of casing,	either cementing or landing	g them as here	in indicated:
Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
13 3/8	54	D	500	· CMT
			700	- Carre
* This is a prospect	hole and will be	thoroughly cored.	Setting ]	points of other pi
strings will be de	termined by coring	and electrical lo	gging.	
		1		
Well is to be drilled with	rotary			•
West to be distinct.	eable			
It is understood that if o	changes in this plan becom	ne necessary we are to notif	y you before o	ementing or landing casin
It is understood that if c	changes in this plan becom	ne necessary we are to notif	y you before o	ementing or landing casing
Address 1000 Jergins T	rust Building		y you before o rgins Oil (Nampor Op	Company
Address 1000 Jergins T	rust Building California		rgins Oil	Company
Address 1000 Jergins T	rust Building California		rgins Oil	Company perator)

Porting.

11.4

Carda

Cross Section my letter 11/4/39-264 W.C. W.C. Book

RECEIVED NOV-21939

Malinga, Calfornia

# Well Records for Artificial Penetration #2

Cheney Ranch #2

(API No. 1900191)

### REPORT OF WELL ABANDONMENT

1 -		C	oalinga	California
		<b>N</b> G	ovember 24 1964	
				*.
Mr (	] F Best			
_	Route 5 Box 475			
	Sakersfield Califor			
	for Humble oil & Re			
J				
_				
Dear	Sir:			-
You	ir report of abandonme	nt of Well No"	Cheney Ranch" 2	
Sec	29 , T. 145 , R. 13	E, MD B. & M.,	Cheney Ranch	field,
Fres	no	County, dated N	ovember 13, 1964	, has been
exami	ned in conjunction wit	h records filed in this	office.	
A r	eview of the reports a	nd records shows that	t the requirements	of this Division,
which	are based on all inform	nation filed with it, ha	ave been fulfilled.	
Rleni	ket Bond			•
FLH:		•		
CC:	Company L A			
and the co	Conservation Commi	ttee		
		E. R. MUR	RAY-AARON	
		State Oil and Gas S		

C.H. Corwin

Deputy Supervisor

### STATUS

Completed Producing	
Recompleted Producing	
Completed Abandoned	· ·
Uncompleted Abandoned Idle	

RECORDS Received	Needed
Well Summary  History  Log & Core  Lge Sm Elec. Log(\$)  Direct.Survey	Lge Sm
Other	
Elevation Release Bond Hold Bond Reason Final letter	161200000000000000000000000000000000000
150b 170 121 card	
0K. 11-10-67 Z-X.	773B 11-15-67 2275

#### SUBMIT LOG IN DUPLICATE

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FILL TI LANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAT

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

### LOG OF OIL OR GAS WELL

Operator	JERGINS	OIL COME	ANY	]	Field	Р.	ANOCHE C	REEK			· ·
Well No	CHENEY R	ANCH #2	. (See letter dated	Sec.	29	, Т.	145.,	R. <u>13</u>	E.,	M. D.	В. & М.
Location.	330 N. 9	90 E. E.	(see letter deted	Sec.	Elevatio	of der	piskxfloorx abo	ve sea lev	vel	392	feet.
	In compliance	with the provi	isions of Chapte tion of the well	r 718, Statute	es of 191	5, as am	ended, the inf	ormation	given	herewith is a	complete
Date_St	eptember	20, 1941				S	igned	W	D	uph	elf
			T. Mc				Title Ag	ent			
	Engineer or Geolog			Superintendent)		T	• 10 7	0/7		ing tools	
		•	.940	_	_	<u> </u>	ل ولاله ا	941	Drill	ing tools Rot	ary
-			ed depth72				OLOGICAL MA			<sub>рев</sub> . 5890	гн
Junk	•					~ .	<i>loreno S</i> Cravenha				
						-	Domengin	~			
							Lodo			• •	
Commend	ced producing	Jan. 19	, 1941 (date)		Flowing		k/pumping				
			Clean Oil bbl. per day	Gravity Clean Oil		ent Water ng emulsion	Gas Mcf. per	day		Tubing Pressure	Casing Pressure
	Initial pr	oduction	13	54	И	one	900 mcf	Est.	30	00	800
P	roduction after	30 days	7	53		料	400 mef		3(	00,	800
				ASING RECORD	(Prese					<i>,</i> 0	1 800
e of Casing A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seam or Lag		Grade of Casing	Size of l Casing lan		Number of Sacks of Cement	Depth of Cementing if through perforations
1-3/4	538	Surface	54	new	Sml	s.	D	15 1	,	315	
7 <del>11</del>	7200	17	26 E 28	Ħ	11			10-	5/8	300	
5110.D.	7273	7162	20#	insert	d li	ner.				14	
				PEREO	RATIONS			<u> </u>			
ize of Casing	From	То	Size	of Perforations		Number	Distan	ce		Method of Perf	orations
n O.D.	7192 ft.	7273 ft	4.5			of Rows		enters		· · · · · · · · · · · · · · · · · · ·	or actions
Vers	ft.	ft			Micres Co	1.0	6		<u>-∠3'</u>	-shop	
	ft.	ft	1	100 mm	Cras	THE PERSON NAMED IN	Port	H-CONTACT NO.			
	ft.	ft	<u> </u>		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	इ ( वश	116	120			348
•••	ft.	ft		Marin				1	JGŢ	17 1941	
F	Electrical Log I	Depths	38 - 7354	i 4		CONTROL PROPERTY OF	-		(Attac	h Gopy of Lo	· ·g)

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

Field	PANOCHE CREEK	Сомрану	JERGINS OIL COMPANY
Sec. 29	, T. 14 S., R. 13 E., M. D.	B. & M., Well N	o CHENEY RANCH #2
		Signed X	a Campbell
Date	September 20, 1941	Title	Agent  President, Secretary or Agent
reason for t the well, gi	is of the greatest importance to have a complete history of the work and its results. If there were any changes made it we its size and location. If the well has been dynamited, give or water, state kind of material used, position, and results of p	n the casing, state full date, size, position, ar	in detail the dates of redrilling, together with the
11/23/40	Spud 8:30 p.m.		
11/24	6:30 a.m Total depth 538' Noon-completed cementing sur Set 538', 11-3/4" 54# Smls. Survey at 530' was 0° 38'.	rface pipe.	x Victor Pacific system.
11/25	Drilled out 6:00 p.m. Survey 825' was 0° 45'.		
11/25 to 12/1	Drilling ahead.		
12/1 to 12/3	Coring 4440' to 4660'. Survey 4660' 2° 30'.		
12/3	Started drilling ahead.		
12/14	Total depth 6675%. Started	coring 7-5/	8" bbl.
12/14 to 12/17	Coring-total depth 6825'. Reamed 10-5/8" to 6770' to re Opened tester 1:40 p.mno le Closed tester 2:20 p.m. No results although valve opened tester. Cleaned out and started coring Survey 6856' 3° 10'.	olow. ened. No.g	as, no oil, no water.
12/17 to 12/20	Coring. Total depth 7014'. Ran Schlumberger 538' to 7014	, <del> </del>	
12/21	Opened hole to 6910*. Started coring ahead.		AMD CAR 
			MALINDA, DAI ISBRAID

#### HISTORY: Cheney Ranch #2

- 12/23 Total depth 7150'.
- Started in with tester. Stopped at 3300'. Pulled out.
  Ran in with hole opener--reamed tight 3300'-3350'. Pulled hole opener and started in with tester. Set tester at 6912'. Seat failed and after dropping packer 16' decided to pull. Test N.G.
  Decided to core ahead as no other suitable seats available in cored interval.
- 12/25 Coring 7050° on.
- 12/26 Total depth 7280%. Opened hole 6912% to 7125%.
- Opened hole 7125 to 7161'.

  Started in to test with Haliburton Tester.

  Valve open 4:00 p.m. Gas up in 2 minutes. Maximum blow in 5 minutes. Estimated 2 million feet. Spray of oil. 3/8" bottom bean. 16' tail piece. Flow pressure at bottom 800#. Shut in pressure 10 minutes to 3000#. Recovered some Kerosene like clear oil dripping from DRILL Pipe and in top of tool. All rat hole mud plastered on walls of drill pipe. Bottom hole temperature 163°. Open 1 hour and 10 minutes. Went on to clean out. Found hole bridged 7164' to 7280'.
- 12/28  $2\frac{1}{2}$  hours reaming out 7-5/8\* core hole. Started coring from 7280\*. Hard shell at 7300\*. Cored to 7334\*.
- 0pened hole to 7297. Ran Haliburton Tester to 7300. Open one hour. Slight gas blow steady. Pulled tester. Found 1450 salt water on drill pipe. Some oil. Some gas. Flow pressure 700-750. Shut in 10 minutes--2650#.
- Cored to 7354. Pulled out. Ran Schlumberger 7014' to 7354'.

  Ran in with open end drill pipe to place cement plug 7280' to bottom.

  Plugged with 50 sax high temperature oil well cement. Pacific. Completed 9:30 p.m.
- Went in hole 7:00 a.m. to find plug. Top of plug 7225'. Soft to 7240'. 7240' to 7280' cement hard. Took 14 points weight. Conditioned mud. Pulled out drill pipe and broke in doubles preparatory to running casing.
- 1/1/41 Ran 179 joints 7<sup>n</sup>, 26# and 28# pipe to 7200\*. Cemented 300 sacks high temperature Victor Pacific. Completed 11:30 a.m. Cleaned up cellar.
- 1/2/41 Layed down drill pipe. Standing cemented.

LAND GIV

#### HISTORY: Cheney Ranch #2

- 1/3 Rigging up to pull tubing Cheney #1. Landing 7" on Cheney #2.
- 1/4 Pulled tubing Cheney #1.
  Unloading  $3\frac{1}{2}$  drill pipe. Hauling  $2\frac{1}{2}$  tubing Cheney #1 to Cheney #2.
- Hauling tubing Cheney #1 to Cheney #2. Started making up tubing in hole. Cheney #2.

  Measured and stood in derrick. 64 stands.
- 1/6 Made up 3½ Doheney Stone drill pipe 121-30' singles. Went in hole to 7050'--circulating.
- Hit cement 7095'. Float valve at 7157'. Shoe at 7200'. Drilled out to 7203'. Ran WSO with Halliburton tester. Tail pipe 7195'. Packer 7178'. Open 1 hour. Pulled-no results. Valve not open.
  Started to rerun tester—same depth. Open 5:20 p.m. Closed 6:25 p.m. Pulled.
  3 stands and drill collar of very thick mud—some gas. No water. Ran in with 10-5/8" wall scraper.
- Ran scraper to 7280'. Conditioned mud-pulled out. Found 16' cement below 7203'.

Made up 111', 5" O.D. 20# liner (inserted), including 81' 80 mesh perforated. Bull nosed bottom (16 rows-6" centers,  $2\frac{1}{2}$ " slots.)
Hung at 7279' to 7168'—Landed 11:30 a.m.
Started laying down drill pipe.

- Took off blow out preventer and gate, preparatory to running tubing.

  Ran in 7157.59', 2½" tubing. Landed 8' below floor. Bottom of tubing 7165.59' below floor.

  Hooked up Xmas tree. Displaced mud with 29° grav. coalinga crude. Completed 11:25 a.m. Well flowing 2:30 p.m. Flowed oil till 6:30 p.m. Then started flowing water in heads—water and gas. Flowing at 9:30 p.m. started to kill with mud, to pull tubing.
- 1/10 Mixing mud-killing well. Killed 6:30 a.m. Pulled tubing-removed swab catcher bottom joint. Put on bell nipple and reran to 7075' for water witch. Put on xmias tree. Started swabbing.
- Swabbing. Flowing through tubing 2:30 a.m.; reversed and made well flow through casing 7:30 a.m. Ran water witch 10:00 a.m. to 1:00 p.m. Water entry at bottom 7280' to 7270' through gas. Locating water by Ennis of Lo-Kate-It. Started killing well 3:00 p.m.
  Took off xmas tree.
  Started pulling tubing, preparatory to pulling liner.

WHAT CHIMBON

#### HISTORY: Cheney Ranch #2

- 1/12 Made up drill pipe.
  Put on down swabs and went in hole to wash 5" liner. Washing liner with mud.
- Found one tight place in liner. Freed up. Started out to lay down washer.

  8:30 a.m.—making up drill collars and spear to go after liner.

  2:00 p.m.—jarred liner loose one jar.

  4:30 p.m.—liner pulled—laying down drill collars, preparatory to run 10-5/8" wall scraper to open hole to 10-5/8" from 7300' to 7318' to replug.
- Opened hole to 10-5/8 from 7300° to 7318°. Pulled scraper found badly worn. Ran in again with new blades and reopened. Hard through shell 7300° to 7303°. Bottom of hole—10-5/8° to 7318°. 6° to 7321°.

  Ran in with drill pipe to plug. Drill pipe with 3° bull plug 5° long on bottom. One bottom hole ½°. 5° side holes ½°. Above bull plug ran Halliburton plug tool. With drill pipe hanging near bottom pumped in 40 cu. ft. water then 37 sax Victor high temperature cement, then placed 15 cu. ft. of water through rubber plug. Pumped out water while pipe was being pulled from bottom to 7280°. Cement out from bottom to 7280°. Plug bumped. Pulled up to 7270° sheared plug pins with 1800% pressure then circulated for few minutes. Closed preventer and put away 15 cu. ft. at 400%. Pulled up into casing and circulated to condition mnd.
- Circulated to condition mud. Found cement hard at 7277 at 7:45 a.m. Took 10 pts. weight. Pulled out (4 hours). Shut down.

NOTE VIOLENT

- 1/16 Shut down.
  - 1/17 Shut down.
  - Ran in with scraper. Cleaned out to 7277. Soft cement 7270 to 7276. Hard 7276 to 7277. Took ten points weight. Conditioned mud. Pulled scraper.

    Made up liner and hung at 7162 (top). Bottom at 7273. Pulled drill pipe and layed down. Changed cellar assembly. Started in with tubing. Tubing catcher at 6749.
  - Tubing landed at 7139.

    Finished xmas tree and displaced mud with oil. Installed Otis Bottom hole choke at 6435. Set to open at 900# to 3/8 choke. Ran swab 3 times to 600 feet. Well started flowing at 2:45 p.m. 7:30 p.m.—flowing water with distallate and gas. Flowed to sump.

#### HISTORY:

Cheney Ranch #2

1/20

Flowing to sump. Flowing water till 1:30 a.m.
Mud and gas and distillate 1:30 a.m. to 2:30 a.m.
Mud and distillate 2:30 a.m. to 8:00 a.m.
First meter reading 1.395 mcf.
January 1 to 22—to sump.

1/22

Installed trap and tank. Prod. 13 bbls. distillate and 923 mcf.

1/28

Pulled tubing after plugging bottom with Otil plug and blowing well down. Ran Baash Ross Perforator as follows: 20 holes (2x2") 7232 to 7268 and one hole at 7212'. Reran tubing to 6749'. Total prod. to tank for January 57.7 in 8 days. Average gravity 50.5

#### PRODUCTION:

February:

Total prod. 186.88 bbls. Average gravity 53°. Average C.P. 500#. Average T.P. 300#. Gas estimate from charts 270 mcf to 400 mcf daily. Well on 28 days. Through low pressure trap.

March:

Suspended March 1 to 11, March 18 to 24, and March 28 to 31. To install high pressure trap and heaters and to determine shut in pressure.

Shut in pressure after 5 days 2200#.

Produced to tank 18 days. Total 75.32 bbls.

Average gravity 51.5°B.

April:

Produced 24 days. Total 222.46 bbls. average gravity 54°B. Tests were run to determine best operating pressure on high pressure trap. Final determination-600# back pressure on high pressure trap and 100# on low pressure trap.

May:

Produced 16 days. Total 245.41 bbls. Average gravity 55.5°B. Changed trap hook up. Pulled 2½" tubing and ran new 1½" tubing to 7250°.

Junes

Produced 30 days. Total 340.48 bbls. Average gravity 60.1°B. Estimated gas total 6450 mcf.

Julys

Produced 31 days total 308.15 bbls. Average gravity 60.2°B.

## HISTORY: CHeney Ranch #2

July 7:

Installed pressure storage tank.

July 11:

Turned gas into P. G. & E. line.

August:

Produced 30 days. Total 314.55 bbls. Average gravity 59.9°B. Estimate 7200 mcf to P. G. & E.

CT 17 194

### DIVISION OF OIL AND GAS

#### LOG AND CORE RECORD OF OIL OR GAS WELL

JERGINS OIL COMPANY

Field PANOCHE CREEK

Well No. CHENEY RANCH #2 Sec. 29 , T. 14 S., R. 13 F., M.D. B. & M.

## FORMATIONS PENETRATED BY WELL

			JRMA I ION	S PENEIR/	ATED BY WELL
DEPT	н то	Thickness	Drilled	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation	1 MCKHESS	or Cored	Recovery	DESCRIPTION
0 230 500	230 500 538	230 270 38	D		Clay, gravel, and boulders. Clay, sand, and gravel. Shale
538 968 1025 1035 1276 1560 1626 1656 1900 2159 2190 2489 3541	968 1025 1035 1276 1560 1626 1656 1900 2159 2190 2489 3541 3657	430 57 10 241 284 66 34 2591 29 2052 1056	经贸易部 经银行 计对称 经		Cemented 54# 113/4 at 538. Shale and sand. Sand, shale, streaks of hard sand. Hard sand. Sand and shale, stks. hard sand. Sand and gravel. Shale, stks. hard sand. Hard sand. Sand, shale hard streaks. Clay - hard streaks. Hard shale. Hard shale and sandy shale. Sand and shale. Black shale(driller-top Krayenhagen
3657 3881 3952 3976 4324 4440 4440 4440	3881 3952 3976 4324 4401 4440 4447	224 71 24 348 77 39 220	TO CT 17		Shale and hard shale. Shale and hard shale. Shale and hard shale. Shale. Hard shale. Shale. Drilled ahead - cored 1' Shale, brown, earthy, crumbly, slickensided. Contains two ½" bentonite partings in upper 6". 2" Sand, gray, clean, well sorted, fine grained, friable. Has salt and pepper appearance. 1" Bentonitic shale, gray, crumbly. 7" Shale, brown, earthy, crumbly. 2" Sand, gray, clean, well sorted, fine grained, friable. Has salt and pepper appearance. 6" Shale, brown, earthy but firm, fish remains and few Radiolaria. 6" Sand, gray, clean, well sorted, fine grained, friable. Has salt and pepper appearance.
			1	7 550° 1941	fine grained, friable. Has salt and

				green cast, sandy and glauconitic.  16" Shale, brown as above with scattered glauconite grains in lower 4", slickensided and crumbly.  16" Claystone, steel gray, bentonitic, slickensided, somewhat soapy.  4" Shale, brown as above.  1" Sand, gray as above.  5" Claystone, as above.  5" Claystone, as above.  4" Claystone, as above.  4" Claystone, as above.  4" Shale, brown as above.  4" Shale, as above.
4447	4457	С	7*	l' Shale, brown, slickensided, hard to crumbly, abundant Radiolaria. l' Claystone, steel gray, slicken- sided, soapy. 4" Shale, as above, abundant Radio-
				laria.  4" Claystone, as above.  2'2" Shale, brown, crumbly to firm, Abundant Radiolaria, fish remains, some pyritized, questionable Forams.  2" Glauconitic sand, green, very glauconitic.  2' Shale, brown, as above but with fewer Radiolaria.
4457	4467	Ħ	31	Shale, brown as above.
4467	4477	<b>A</b>	61	Shale, probably as above but badly "chewed up".
4477	4487	¥	2*	Shale, brown, crumbly, Radiolaria, and abundant fish remains.
4487	4497	<b>証</b>	48	Shale, brown, as above.
4497	4502	智	51	l' Shale, brown as above. 6° Shale, as above but with scattered glauconite grains. 6° Shale, brown as above. 6° Glauconitic sand, green, fine grained, well sorted. This sand at 4499° may correlate with green sand at 4440° in Cheney Ranch #1.
				23 Shale, brown, as above.
4502	4512	TOTAL AND CAST OF THE SECTION OF THE	4*	Shale, brown, as above, with two l <sup>n</sup> thick glauconitic sand partings, l <sup>1</sup> and 2 <sup>t</sup> from base of core.
		THE PARTY OF THE P		

WALINGA, CALIFORNIA

	#3, Che	ency Ranch #2,	Log		
4512	4520		C	6*	Shale, brown as above with 1° sand- stone shell at base, has greenish ca cast at base and contains Radiolaria and Forams.
4520	4530		質	91	Sand, gray, medium fine grained, clea well sorted, friable, with 6"/shell at top. Has salt and pepper appearance. s.s.
4530	4540		<b>對</b>	78	1' Sand as above. 2' Glauconitic sand, green, medium fine, clean, well sorted, very glauconitic. 4' Siltstone, gray siltstone, pyrite common, massive. BASE KREYENHAGEN GREEN SAND AND TOP DOMENGINE SILTSTONE 4536'.
4540	4550	•	<b>P</b>	7 <b>2</b> 1	3½ Siltstone, steel gray, massive, abundant large Forams. 2½ Sand, light gray, fine grained, silty, ashy? 1 Siltstone, gray, clayey, slickensided.
4550	4560		73	10*	1' Siltstone, as above, rare glau- conite grains. 4' Siltstone, gray with greenish cast, sandy, scattered glauconite, becomes increasingly more sandy toward base. 2' Sand, light gray, fine grained, soft, well sorted, clean to white Kaolinitic matrix, sugary texture soft. 3' Sand, greenish gray, fine grained,
4560	4570		<b>韓</b>	21	soft, silty.  1' Sand, light gray, clean, well sorted, medium fine grained, soft.  1* Siltstone, greay, firm, large pyritized Nodosaria, minute rare pelecypod casts.
4570	4580			7불*	Siltstone, steel gray with greenish cast, as above.
4580	4590		<b>3</b>	101	Siltstone, as above, with rare fossil fragments and pyritized Trochocyathus? at 4581.
4590	4600			81	Siltstone, green-gray, rare glauconitic partings Exputen sp. at 4590'.
4600	4610	OCT 17 194 PALITEA CLIEF	· · <b>·</b>	81	Siltstone, as above with Bryozoa and large Forams at 4601.

4610	4620		<b>C</b>	10*	<pre>l' Claystone, green-gray, soapy, slickensided. l' Siltstone, green-gray, scattered</pre>
, , , , , , , , , , , , , , , , , , ,				; · · .	glauconite, abundant Foram, <u>DIScocyclina</u> .  1 Glauconitic sand, green, very
			• • • • • • • • • • • • • • • • • • •		fine grained and silty. 52' Siltstone, steel gray, abundant Forams with 2' flood of Exputen sp. at 4615-4616'. 6" Sand, gray, very fine grained to
•				1 4	silty, soft. 1 Siltstone, as above, with Discocyclina.
4620	4630		***	11*	6' Siltstone, greenish-gray, abundant Discocyclina in upper 1' and abundant Forams throughout, scattered small pelecypods. 5' Sand, green-gray, very glauconitic fine grained with silty matrix 1' gray fine grained sugar textured sand 2' from base.
4630	4640		<b>11</b>	10†	l' Sandstone, green-gray, glauconitic hard, scattered smooth pebbles up to in diameter, fossil fragments, Ostrea?, Turritella.  5 Sand, greenish-gray, glauconitic,
***************************************				•	fine grained to silty. Scattered coarse sand grains and gray shale pebbles in lower 6". This is base of Domengine at 4636'.  4636' Base Domengine Top Lodo
					4' Siltstone, gray, firm, slicken- sided at top at Domengine contact, white spots that may be arenaceous Forams, pyritized reeds, scattered minute pelecypod fragments, cal- careous Forams.
4640	4650		19	101	Siltstone, as above.
4650	4660	***	1	1.	Siltstone, as above.
٠.		S. Maria			All cores described while wet or partially wet.
4660	4687	27	, <b>D</b>		Shale.
4687	4715	28		Langan	Shale and sand.
4715	4891	176	. MECETT	/37.P	Sand and shale-stks. hard shale.
			MALISTA, GAI	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

4891 4952 4970 5061 5153 5207 5506 5650 5660	4952 4970 5061 5153 5207 5506 5650 5660 5727	61 18 91 92 54 299 144 10 67	D n n n n n		Shale Hard shale Shale-hard stks. Shale Hard shale and shale. Shale stks. hard shale and sand. Hard shale. Hard shale. Shale and hard shale
5727 5729 5740 5751 5770 5888 5958 5962 6067 6090	5729 5740 5751 5770 5871 5888 5934 5958 6061 6067 6090 6670	2† 11; 11; 29; 101; 17; 46 24, 4; 99; 6; 23; 580;	財教 野 教 野 教 野 教 野 教 野 教 野 教 野 教 野 教 野 教 野		On iron (recovered junk) Hard sand. Shale. Hard sand Hard sand and shale. Hard sand. Hard shale. Hard shale stks hard sand. Hard shell. Hard shale. Shale and shells. Hard shale.
6670 6675 6675	6675 7354 6685	51 6791	n C n	4*	Hard shale occasional shell (Moreno shale). Sand. Cored. Shale, dark brown, semi-platy and
6685 6695 6700 6710	6695 6700 6710 6715		A A A	None 4" 15!	crumbly, dip appears nearly flat. Shale, dark brown, more massive and less crumbly than preceding core. Shale, as above. 10 pick up from preceding core.
6715 6720	6720 6728		寶	3* 81	15' Shale, dark brown, semi-platy, Forams.  2" Gray siltstone parting 4' from top and 4' from base.  Shale, as above.  6' Shale, brown, platy, dip 3°.  5" Sand, white, very fine, floury,
6728	6738		Ħ	71	soft. 3" Shale, as above. 4" Sand, as above. 6" Shale, as above. 5½' Shale as above but soft and crumbly. 1½' Sand, medium gray, fine to very
			PORTY OCT 171	AND GAS 1737 941	fine grained, firm but friable, contains 2" shale parting.

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. 1		$\mathcal{L}_{\mathcal{A}} = \{ (1, 1) \mid \mathcal{A} \in \mathcal{A} \mid \mathcal{A} \in \mathcal{A} \}$		• "	
6738	6748		C	91	Shale, brown, with several thin
<b>U</b> , <b>D</b>	5 ( .45			*	fine grained sandstone dikes up to
					$1\frac{1}{2}^n$ in thickness.
6748	6756		99	31	Shale, as above with sandstone dikes.
6756	6762		39	61	Shale, as above with sandstone dikes.
6762	6771		117	84	Shale, as above with sandstone dikes
					totaling 3 in thickness, sand is
vi.					gray, fine grained, firm, friable.
6771	6780	(1)	14	91	Shale, brown, very crumbly with 3"
	<b>4</b>				sandstone dike at base.
6780	6789		313	91	Shale, as above.
6789	6794		71	3 <b>,</b>	Shale, as above.
6794	6803		93	<b>L</b> .	Shale, brown, platy, and soft,
					crumbly with 2n fine grained, friable
					gray sand in middle; no odor, fish
	* ** **	,	, cients:		scales.
6803	6808		<b>77</b>	5 <sup>t</sup>	Sand, light gray, massive, fine to
	* * *	••		•	very fine grained, firm but easily
					friable; no cuts and no gasoline
/ M A M			' this	use into the	odor, flashed in core barrel.
6808	6817		幹	10,	Sand, as above; no odor, with 1
					brown shale lat from top; contains
1377	1000		- 98	· · · · · · · · · · · · · · · · · · ·	a large brown micaceous mineral.
6817	6825		Ħ	61	6" Shale, brown, crumbly, Dentalina
	٠,				(long), large <u>Plectofrondicularia</u>
					or Frondicularia.
					12 Sand, medium gray, fine to very
					fine grained, slightly silty, friable
i i				og.	te seft, no odor.
		*			21 Shale, brown, chewed up.
	•				2' Sandstone, medium gray, very fine
					grained and silty, micaceous, firm,
					thinly bedded with dips varying from 5° to 12°.
6825	6835		11	61	27 40 127
6836			n	81	it areas stand and a think a
0070	6843		. ***	<b>@</b> "	4' Sand, firm, massive to thin x
					bedded, fine, dark gray, considerable basic ferros, very carbonaceous,
					abundant forams. No oil or gas.
					1 Siltstone, dark gray-brown, friabl
				1	massive, carbonaceous. Forams
					abundant. No oil or gas.
		•			1' Sand, firm, massive, very fine-
				•	silty, dark gray, forams common. No
					oil or gas.
					2' Shale, as above, forams abundant.
6843	6846	,	17	01	was an analysis of the second
6846	6856		71	61	Shale, firm, massive, semi-spalling,
					dark brown, with 1-2"/firm massive,
					dark gray silty sand. Forams abundant
					in sand and shale, no showing oil or
			o eas		gas.
<del>6</del> 856	6865		F 11	11611	<u>Clavey Sand</u> , soft, very fine, white.
6865	6869	OCT 17 1941	n	Ž1 611	Shale, soft, punky, flakey, dark
34 34 V J	~~,	UUII ( 1941		yang we	brown, abundant forams, badly chewed
		MALMA, CALIFE	Massa		up in coring.
		LAMBORATA NA SEL SERVER TO SERVER TO SERVER	76 F88 B (F		method and the second s

•						
6869	6877			/m	81	OFAN Charles Ontonia and the second
0007	00.17	s		.6	0.	3'6" Shale, fairly soft, massive,
	* .	• 1	•		•	flakey, dark brown, with 1-2"/ friable, fine gray sand. Forams
	w .		, , , , , , , , , , , , , , , , , , , ,			abundant.
	:			6		1' Sandstone, hard, massive, fine,
						gray.
						416" Sand, friable, compact, massive
and the second					<i>"</i>	fix and x bedded, fine, gray. Few
/ where we					1	gas bubbles in mud, no cut or odor.
6877	6885		• •	17	61	2'6" Shale, as above.
			,			2' Sand, friable, massive, fine, gray
•						carbonaceous, with 1-1"/brown shale,
		-	•			as above. No cut or odor.
			,			1'6" Sandstone, hard, massive, fine,
6885	6894			Ħ	41611	gray. <u>Sand</u> , friable, massive, well sorted
			• •			fine, brown-gray, show of gas in
,						core bbl., "sweet odor in sand.
6894	6902			73	0:63	Sand, as above, no evidence oil or
					• •	gas.
6902	6912			T	O*	
6912	6917		ı	Ħ	118"	Shale, massive, flakey, dark brown,
						carbonaceous, with 1-5"/fine, massive
4	a <sup>r</sup>					friable gray sand. No cut or odor in
						core, show gas in core bbl.
6917	6922			71	1,64	Shale, as above, few forams. Show
4000	6022	8 - 1		91		gas in core bbl.
6922	6932		1	41	10,	8'6" Shale as above, with 1-8"/
			*	;		friable, massive, fine gray sand.
		W				Forams scarce.
						1'6" <u>Sand</u> , firm, compact, massive, fine, gray. Slight pet. odor at
				•		bottom. Show gas in core bbl.
6932	6942			11	101	4'6" Sand, friable, massive, fine
						gray, becomes silty towards bottom.
i						No cut or edor.
		4	;			5'4" Shale, soft, massive, dark brown
	ing and a second control of the second contr		· · · · · · · · · · · · · · · · · · ·			with 1-8"/hard fine shaly gray sand-
•		· · ·		A		stone. Forams rare.
					,	2" <u>Sand</u> , firm, massive, fine, gray,
	į					slight pet. odor. Show gas in core
6010	LOFE			94		bbl.
6942	6952	•	*	M	TO.	5'9" Sand, firm, massive, compact,
		•		\$ 1	: :	fine, gray, with 1-8"/brown shale,
		<b>.</b>		•	· .	as above. Slight pet. odor.
		•				2'9" Shale, as above, forams rare.
			*		1	1'3" Sand, as above, slight pet.odor. 0'3" Shale, as above.
						Show gas in core bbl.
6952	6962			輯	O'F	Commence of the commence of th
6962	6972		. P. OIL AND	<b>M</b> S	Ŏŧ.	
6972	6977	21.3 ± 4.4 ±	MEVER	17	01	
6999	7014		17 1941	11	01	
7014	7022	**************************************	4 0 1341	31	21611	Sand, firm, massive, fine, fairly
			A. Callena	Nag.		well sorted, gray, no cut, odor or
	<b>V</b>		* .			gas.

#8, Cheney Ranch #2, Lug	#8,	Cheney	Ranch	#2,	Lug
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7022					
	7027		C	416n	Sand, as above with 1-8"/hard, massive, dark brown-gray shale.
					Forams, fish remains, Dip 11°, no cut, odor or gas.
7027	7031		#	41	2'9" sand, as above, slight gas
			•		show. 1'3" shale, slightly bedded, hard,
					dark brown-gray, irregular inclu-
					sions hard fine gray sandstone.
7031	7036		<b>9</b> 7	11611	Forans.
10,24	1000		77	T.O.	Shale, massive, hard, dark-brown- gray. Forams.
7036	7045		Ħ	61	Sand, firm, massive, compact, fine,
					gray, 1-2"/shale, as above. Faint
7045	7055		13	gı	"sweet" odor. Sand, friable to hard, massive, com-
1042					pact, fine to very fine, gray.
FIRER	F10 / 1		**		Slight "sweet" odor.
7055	7064		11	71611	1'6" Sand, as above, except hard.
					Few angular inclusions of shale, as above. No cut, odor or gas.
					6' shale, as above, with 1-2", 1-4"
7064	7066		10	21	s/hard fine gray sandstone.
1004	7000		,		Shale, as above. Forams.
	amples:	•			
5761* 6952*	Rec. 15 s	hale & fine	gray sa	nd, no c	ut or odor.
69571	Rec. $1^{\frac{1}{2}}$	ne gray san Ditto	a, no cu	t or oac	<b></b>
69611	Rec. 1	Ditto			
69721	Rec. 注加	45.4 1			
	*	Ditto			
69751	Rec. 12"	Ditto			
7066	*		#	1.	Shale, hard, thin bedded, simi-spall-
7066	Rec. 15" 7071				Shale, hard, thin bedded, simi-spalling, dark gray brown. Forams & fish.
7066 7071	Rec. 15" 7071 7073		群 鞋	01	ing, dark gray brown. Forams & fish.
7066 7071 7073 7083	Rec. 1½" 7071 7073 7083 7091		11		ing, dark gray brown. Forams & fish. Shale, as above.
7066 7071 7073	Rec. 1½" 7071 7073 7083		II II	01 71611	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"
7066 7071 7073 7083	Rec. 1½" 7071 7073 7083 7091		群 鞋 (鞋	01 71611 71611	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray
7066 7071 7073 7083	Rec. 1½" 7071 7073 7083 7091		群 鞋 (鞋	01 71611 71611	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray sandstone. Dip 11°.
7066 7071 7073 7083 7091	Rec. 1½" 7071 7073 7083 7091 7095		罪 牲 謝 對	01 71611 71611 41	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6" s/hard massive, fine gray-dark gray sandstone. Dip 11°.  Sand, firm, friable, massive, fine, dark gray-light gray. No cut or odor,
7066 7071 7073 7083 7091	Rec. 1½" 7071 7073 7083 7091 7095		打 转 转	01 71611 71611 41	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray sandstone. Dip 11°.  Sand, firm, friable, massive, fine, dark gray-light gray. No cut or odor, faint gas.
7066 7071 7073 7083 7091	Rec. 1½" 7071 7073 7083 7091 7095		罪 牲 謝 對	01 71611 71611 41	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6" s/hard massive, fine gray-dark gray sandstone. Dip 11°.  Sand, firm, friable, massive, fine, dark gray-light gray. No cut or odor, faint gas.  Sand, firm, compact, massive, fine,
7066 7071 7073 7083 7091	Rec. 1½" 7071 7073 7083 7091 7095		打 转 转	01 71611 71611 41	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray  sandstone. Dip 11°.  Sand, firm, friable, massive, fine,  dark gray-light gray. No cut or odor,  faint gas.  Sand, firm, compact, massive, fine,  gray. Faint "sweet"odor, no cut.
7066 7071 7073 7083 7091 7095	Rec. 1½" 7071 7073 7083 7091 7095 7105		罪 特謝 對 對	01 71611 71611 41	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray  sandstone. Dip 11°.  Sand, firm, friable, massive, fine,  dark gray-light gray. No cut or odor,  faint gas.  Sand, firm, compact, massive, fine,  gray. Faint "sweet"odor, no cut.  Sand, fairly hard, massive, fine, gray  numerous angular inclusions shale.
7066 7071 7073 7083 7091 7095 7105 7115	Rec. 1½" 7071 7073 7083 7091 7095 7105 7125		罪 特謝 對 對	01 71611 41 21 61	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray  sandstone. Dip 11°.  Sand, firm, friable, massive, fine,  dark gray-light gray. No cut or odor,  faint gas.  Sand, firm, compact, massive, fine,  gray. Faint "sweet"odor, no cut.  Sand, fairly hard, massive, fine, gray  numerous angular inclusions shale.  No cut or odor.
7066 7071 7073 7083 7091 7095	Rec. 1½" 7071 7073 7083 7091 7095 7105	Ditto	打 特 財 計	01 71611 71611 41 21 61	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray  sandstone. Dip 11°.  Sand, firm, friable, massive, fine,  dark gray-light gray. No cut or odor,  faint gas.  Sand, firm, compact, massive, fine,  gray. Faint "sweet"odor, no cut.  Sand, fairly hard, massive, fine, gray  numerous angular inclusions shale.  No cut or odor.  5'3" Sand as above, with 1-2"/shale.
7066 7071 7073 7083 7091 7095 7105 7115	Rec. 1½" 7071 7073 7083 7091 7095 7105 7125	Ditto	打	01 71611 71611 41 21 61	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray  sandstone. Dip 11°.  Sand, firm, friable, massive, fine,  dark gray-light gray. No cut or odor,  faint gas.  Sand, firm, compact, massive, fine,  gray. Faint "sweet"odor, no cut.  Sand, fairly hard, massive, fine, gray  numerous angular inclusions shale.  No cut or odor.  5'3" Sand as above, with 1-2"/shale,  as above.  9" shale, as above, forams.
7066 7071 7073 7083 7091 7095 7105 7115	Rec. 1½" 7071 7073 7083 7091 7095 7105 7125	Ditto	THE REPORT OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERS	01 71611 71611 41 21 61	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray  sandstone. Dip 11°.  Sand, firm, friable, massive, fine,  dark gray-light gray. No cut or odor,  faint gas.  Sand, firm, compact, massive, fine,  gray. Faint "sweet"odor, no cut.  Sand, fairly hard, massive, fine, gray  numerous angular inclusions shale.  No cut or odor.  5'3" Sand as above, with 1-2"/shale,  as above.  9" shale, as above, forams.  8' sand, firm, thin bedded, fine light
7066 7071 7073 7083 7091 7095 7105 7115	Rec. 1½" 7071 7073 7083 7091 7095 7105 7125	Ditto UCT17	# # # # # # # # # # # # # # # # # # #	01 71611 71611 41 21 61	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray  sandstone. Dip 11°.  Sand, firm, friable, massive, fine,  dark gray-light gray. No cut or odor,  faint gas.  Sand, firm, compact, massive, fine,  gray. Faint "sweet"odor, no cut.  Sand, fairly hard, massive, fine, gray  numerous angular inclusions shale.  No cut or odor.  5'3" Sand as above, with 1-2"/shale,  as above.  9" shale, as above, forams.  8' sand, firm, thin bedded, fine light  & dark gray, carbonaceous. Dip 10°.
7066 7071 7073 7083 7091 7095 7105 7115	Rec. 1½" 7071 7073 7083 7091 7095 7105 7125	Ditto	# # # # # # # # # # # # # # # # # # #	01 71611 71611 41 21 61	Ing, dark gray brown. Forams & fish.  Shale, as above.  Shale, as above, dip 8°.  Shale, as above, with 1-2" & 1-6"  s/hard massive, fine gray-dark gray  sandstone. Dip 11°.  Sand, firm, friable, massive, fine,  dark gray-light gray. No cut or odor,  faint gas.  Sand, firm, compact, massive, fine,  gray. Faint "sweet"odor, no cut.  Sand, fairly hard, massive, fine, gray  numerous angular inclusions shale.  No cut or odor.  5'3" Sand as above, with 1-2"/shale,  as above.  9" shale, as above, forams.  8' sand, firm, thin bedded, fine light

* * * * * * * * * * * * * * * * * * *			es en .	
	#9, Cheney Ran	nch #2, Log		
7133	7141	C	81	Shale, as above, with 1-12"/hard, compact, massive, dark gray, carbonaceous siltstone. No cut or odor. Dip 7°. Numerous carbonaceous fragments in
7141	7150	<b>:t</b>	8†611	shale.  1' Sand, friable, compact, massive, fine, gray, "sweet odor also faint pet. odor. Slight gas show in core bbl 4'6" Shale, as above, forams & fish
				remains, no carbonaceous material. 2' Sand, firm friable, massive, fine, gray, few fragments carbonaceous material & shale, faint "sweet" odor 1' Shale, as above, with 1/2" sandston dike Dip 8°.
7150	7155	<b>:11</b>	41611	Shale, as above, with 1-6"/soft, massive, fine gray sand. Faint pet. odor.
7155 7164	7164 7174	<b>并</b>	31 101	Shale, as above.  2  Sandstone, hard, massive, fine, gray.  1 6 , Sand, soft, massive, fine, gray.
				Fair pet. odor, no cut.  9" Shale, as above.  5'9" Sand, firm friable to fairly hard massive, compact, fine, carbonaceous, dark gray, numerous angular & rounded fragments shale, as above, and 1-3", 1-6" s/shale, as above. "Sweet" odor and fair pet. odor. No cut. Core
7174	7183	Ħ	91	Showed gas in barrel.  Sand, friable, massive, compact, unigrained fine, gray, slight pet. odor, show of gas in core bbl.
7183	7193	<b>. 1</b>	31611	6" Sand, fairly hard, thin bedded, fine, gray.
7193	7198	***************************************	5 <sup>‡</sup>	3' Shale, as above, forams. 2'6" Sand, firm, friable, compact, fine to very fine, gray, "sweet" odor, very faint pet. odor. 1'6" Shale, as above. 1' Sand, firm, massive, fine, gray.
7198	7208	Ħ	10*	"Sweet" odor. 5'6" Shale, as above, forams, & fish remains. 4'6" Sand, friable, massive, compact, fine, gray, "sweet" odor, very faint
7208	7218		101	pet. odor.  2' <u>Sand</u> , as above, faint to fair pet.  odor.  1'9" <u>Sandstone</u> , hard, massive, fine, gray.
		OCT 17 1941		3" <u>Sand</u> , friable, massive, fine- medium, gray. 2'6" <u>Shale</u> , as above, with laminations fine gray silt. Dip 11°.
		PALINGA, CALIFORNIO		6" Sandstone, hard, massive, fine, carbonaceous, gray.

#10,	Cheney	Ranch	#2	Log
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7208	7218	Cont'd.	C	101	2'9" Sand, firm, friable, massive, fine-medium, gray, faint pet. odor,
7218	7228		#	31611	slight show of gas. 1 <u>Sand</u> , soft, massive, fine, gray,
	*			A A	faint pet. odor. 1'6" <u>Shale</u> , as above. 6" <u>Sand</u> , as above.
					6" Sandstone, hard, massive, fine, shaly, gray.
7228	7238		n n	113"	Sandstone, hard, compact, very fine, dark gray, faint pet. odor, slight show gas.
7238	7243		ांग	1,34	5" <u>Sandstone</u> , hard, massive, fine, shaly, gray.
7010	MOKO		W.	* *	10" Shale, as above.
7243	7250		11	0169	No recovery.
7250	7260			91611	Sand, firm, friable, massive, fine, gray, fair pet. odor, faint gas.
7260	7270		***	91	Sand, as above, faint pet. odor.
7270	7280		***	61611	3' Sand, as above, faint pet. odor.
					1'6" <u>Sandstone</u> , hard, fine, massive, gray.
					2' Sand, as above, very faint pet.
mada	Maga		. He	m ė .	odor.
7280	7290		<b>11</b>	71	3 Shale, dark gray brown, clayey to
		•			silty, laminated, dip 10°, forams.
					4' Sand, medium gray to gray, fine
					grained, somewhat silty with rare
					shaly partings mostly firm with few
					easily friable partings. Fair petrol
			, .	. en :	odor at top, "sweet at bottom".
7290	7300		***	7章*	lg! Sand as above.
		•			3' Sand, gray, fine grained to very
			greet in		fine grained, easily friable, very
				*	faint petrol odor.
•••		1.,	•		3' Sandstone, shell.
7300	7310	en de la companya de	11	71	Sand, gray, fine grained to very fine
	41				grained, friable to loose with 4"
					dark gray brown shale with forams and
				•	fish scales and scattered mica flakes
	•				1' from top core. Very faint petrol
					odor.
7310	7319	•	Ħ	101	Sand, as above, faint to no petrol
				: 	odor.
7319	7329	·	33	7克1	Sand as above. No odor,
7329	7334		***	61	Sand as above but all soft.
7334	7344		Ħ	31	6" Shale, gray brown.
					l' Sand, as above.
•					9" Shale, gray brown, badly chewed up.
					9" Sand, as above, badly chewed up.
7344	7354		31	51	Sand, light gray, fine to very fine
					matrix, soft, feels ashy with 2"
			The state of the same		shale parting in upper 1.
Total	depth '	73541	JAN AND GAY		and the second s

DCT 17 1941

THE MEA, THE FRANCE

#### PANCORE CREEK

#### CHERACEOUS

FLA

#### JEROUS OIL COMPANY

CHESTRY RANCH

O

29-14-18

250 71421

7" ( 7200

1111 of 5"

7,3541

7.277

Otin choke at 6454

55.00

8.0%

1.320

inol. Sl' of SOm porf.

1/19 1

60 B/o (dietiliate)

liner landed 7279

Pield and well classification has not been established as yet. Sending in this report for record our comes. On Jan. 20, 1941 pulled Otio Cheke, found it all out out. Liver was open to bottom. Operator reperforated perforated intervals with a built 2"x5/8" globs 2' centers 7252-7268 and one hole et 7211 . However this did not increase production.

250

500

#### Distillate

1/20	25	54.0	10,0	115/460	32 <b>/</b> 06	1300
21	20	53.0	黄芩	110/376	<del>13</del>	IOO
. 22	13	52.4	**	160/260	**	900
30 day	ave. 0 B/	92.1	\$9	150/175	舒	500
P.P	17	52.2	製料	175 <b>/</b> 800	10 <i>/</i> 54	500

32/84

5/6n 000" mak prossure

200°

530 N and 900 E from SW corner

Section 29-14-15

CLARK

Various

7.277

OLAW CA -EB 20 194

· 1981年初度、台灣·韓格兰

WELL HISTORY

Cheney Ranch

MD

well no. Che	ney Rancl	h #2	FIELD (Panoche) COUNTY	Fresno California SEC. 29 148 13E BAN
DATE	DEPT	HS TO	FORMATION	REMARKS
9-1-64 t 9-2-64 9-3-64		10		Moved in and rigged up.  Pumped 325 barrels water through annulus. Pulled 1½ tubing to 7082. Displaced 50 sx cement through tubing. Witness by D.O.G. representative.
9-4-64				Working tubing.
9-5-64 t 9-7-64	hrough			Standing.
9-8-64				Shot off tubing, backed off 14" tubing to 6600.
9-9-64				Pumped 8 sx cement through tubing at 5680.
9-10-64				Pulled 299 Jts (7057') 14" tubing. Checked fluid at 3100'. Dumped 25 sx cement from surface.
9-11-64				Filled hole with earth and water to 2000. Dumped 10 sx cement from surface. Cut off 7" casing at surface.
9-12-64 9-13-64	and			Standing
9-14-64				Checked top of cement at 457.
9-15-64			<b>1</b>	Welded on pulling joint to pull casing.
9-16-64			COLUMN TO THE REAL PROPERTY OF THE PARTY OF	Shot off 7" casing at 457! and pulled 422! of casing. Dumped 20 sx cement at 459!. Witnessed by D.O.G. representative.
9-17-64			8 8 Mg	Moved out rig.
9-18-64				Filled hole with earth to 27'. Dumped 12 sx cement from surface. Top of cement at 7'. Witnessed by D. O. G. representative. Well abandoned.
r				HUMBLE OIL & REFINING COMPANY
				By Agent C. F. Best, Dist. Supt.
			<i>:</i> ,	Date November 13, 1964

#### Coalinga, California January 23, 1941

JERGINS OIL COMPANY

Well No. "Cheney Ranch" 2 Sec. 29, T. 14 S., R. 13 E. M. D. B. & M. Fresno County

#### MUMORANDUM

There was a report in the local newspaper last night stating that this well had been completed as a commercial producer and giving the following information: The well was completed capable of producing 125 bbl. of 55 degree gravity oil per day cutting 8% water, and 1,125,000 cu. ft. of gas. The oil was reported to be entirely in a gaseous form until it reaches the surface and is condensed in the trap. The total depth is 7,355 feet, plugged back to 7,277 feet.

The well is a considerable distance from Coalings and, in view of the bad weather and poor road conditions, it was not considered advisable to send a representative to investigate, particularly in view of the fact that Mr. H. O. Woodruff, engineer of The Texas Company which has interests in the area, has informed me that he believes that the report is much exaggerated. The information available to this company indicates that the well is probably just another "dud" similar to well No. "Cheney Ranch" I drilled by the same company which is capable of producing a minor amount of gas accompanied by a small amount of high gravity oil.

Deputy Supervisor

#### CALIFORNIA RESOURCES AGENCY DÉPARTMENT OF CONSERVATION

# DIVISION OF OIL AND GAS

# Special Report on Operations Witnessed

	No. T_564-251
	Page 1 of 2
Mr. C F Best	
Route 5 Box 4/5	Coalinga Calif.
Bakersfield California	September 23 1964
Agent for HUMBLE OIL & REFINING COMPANY	
DEAR SIR:	
Operations at well No. "Cheney Ranch" 2	, Sec. 29 , T. 14S , R.13E , M D B & M.
Cheney Ranch Field, in	Fresno County, were witnessed
on September 22, 1964 Mr. F. L.	Hill , representative of the supervisor was present
from 3:00 p.m. to 3:10 p.m There were also	o present P. D. Elliston, Contractor
D 11 11-3/4" cem. 5381:	7" cem. 7200', shot and recovered from 457';
5" 1d. 7162 -7273 perf. 7192 -7273	T.D. 7354'. Plugged with cement 7354'-7280',
	!+, 2000'-1944'+, 457'-421'+ and 27'-7' (junk
in hole) 1½" tubing 6732'-6600'.	T S AND THE STORY TO THE TOTAL TOTAL STORY
and thought and the state of th	
1	
The annual company of D	lugging the hole in the process of abandoment.
The operations were performed for the purpose of	and and the sea of Academ At manifesterings
Mr. rej	nortal.
Inspector Hill was present at the well	from 10:00 a.m. to 6:00 p.m. on September 3, 1964
	The state of the s
Mr. Elliston reported:	
1. 1%" tubing was hanging at 7250'.	
The Inspector noted:	
<del></del>	ter before any returns at the surface were
observed.	
2. The 1k" tubing was stuck at 7250'	, however, continued circulation of water
partially freed the tubing.	A new or war in a construction of the construc
3. The 1½" tubing was pulled to 7082	ŧ _
	cement was pumped into the hole through 12"
tubing hanging at 7082', calculat	
மையார்கள் சால்களியாகி மாடி கொள்ளார்கள்	en by take by very 9
Inspector Hill was again present at the	well from 11:30 a.m. to 2:00 p.m. on September
16, 1964.	Acts rrow rring game on ring bins on debrencer
and the second second	
Mr. Elliston reported:	
1. The lt" tubing was plugged with c	ement to 66001.
2. Backed off 14" tubing at 6600' an	
The state of the s	cement was pumped into the hole through 12"
tubing hanging at 5680', calculat	
	level was located at 3100't, and 25 sacks of
	e, calculated to fill from 3100 + to 2960 +.
5. The 7" casing was filled with dir	
	f cement was dumped from the surface, calculated
to fill from 2000' to 1944'+.	r rememe was anubed from the sqligge, estenisied
en titt time than to that.	

State Oil and Gas Supervisor

By (Continued on Page 2)

E. R. MURRAY-AARON

# STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION

#### DIVISION OF OIL AND GAS

#### Report on Test of Water Shut-off

or

Special Report on Operations Witnessed

Page 2 of 2

No. T564-251

HUMBLE OIL & REFINING COMPANY

Well No. "Cheney Ranch" 2 , Sec. 29 , T. 14S , R. 13E , M. D. B. & M.

Mr. Elliston reported: (Continued)

- 7. The 7" casing was shot at 457' and was pulled from that depth.
- 8. The 11-3/4" casing was bridged at 457'.

The Inspector noted:

- 1. The fluid level was located at 435'.
- 2. On September 16, 1964, 20 sacks of cement was dumped from the surface, calculated to fill from 457' to 421'±.

Inspector Hill was again present at the well from 3:00 p.m. to 3:10 p.m. on September 22, 1964.

Mr. Elliston reported:

- 1. The 11-3/4" casing was filled with dirt to 27'.
- 2. A total of 12 sacks of cement was mixed and dumped on the bridge at 27', filling to 7'.

The Inspector noted that the 11-3/4" casing was filled with set cement at 7'.

THE CEMENTING OPERATIONS ARE APPROVED.

FLH:fd

cc: Company L A
P D Elliston

E.R. MUHTAY-AARON,

E. H. MUSSER

State Oil and Gas Supervisor

) A Courn Deputy

#### DIVISION OF OIL AND GAS

# REPORT ON PROPOSED OPERATIONS No. P 564-299

Mr. C F Bes		
	5 Box 475	Coalinga Calif.
	field California	August 19 1964
Agent for	HUMBLE OIL & REFINING COMPANY	
Dear Sir:		
Your	proposal towell	No. "Cheney Ranch" 2
Section 29	T. 14S, R. 13E, M.D. B. & M., Cheney Ranch Field,	Fresno County.
dated Aug. 1	18, 1964, received Aug. 19, 1964, has been examined in conjunct	tion with records filed in this office.
Present condit RECORDS IN 5" ld. 7 THE NOTICE	itions as shown by the records and the proposal are as follows: IN ADDITION TO OR AT VARIANCE WITH THOSE SHOWN IN TO 7162'-7273', perf. 7192'-7273'. CE STATES:	
	RESENT CONDITION OF THE WELL IS:	
	11 Depth: 7354' Plugged Depth 7280'	
	plete casing record, including plugs:	
	3/4" 54# casing cemented at 5381	
	, 26# and 28# casing cemented at 7200'	
•	20# slotted liner from 7168-7279'	
J. Last	Produced 10-23-51 1 (Date) (Oil, B/D) (Water, B/)	entilation on annual programment and programme
PROPOSAL:		<b>9)</b>
	ROPOSED WORK IS	
	l is to be abandoned by Elliston Oil Well Servicing	Co 201 W. Stanielaus
	enal, Calif., as per letter attached."	And an membership
DECISION:	<b>₹</b>	
	DPOSAL IS APPROVED PROVIDED THAT:	
	The 5" liner and 7" casing shall be plugged with co	ement from 7273' to 7142'.
	a. In the event the 7" casing is recovered below a foot cement plug shall be placed from 1420' to	a depth of 1420', a 100-
	b. In the event the 7" casing is recovered above a foot cement plug shall be placed on the 7" cas:	
	A cement plug shall be placed from 558' to 518'.	
	A 10-foot cement plug shall be placed in the 11-3/4	4" casing at the surface.
	This Division shall be notified to witness:	
	a. The clean out depth of 7273'.	_
•	b. The location and hardness of the plug at 7142'	
4	c. The placing of the cement plug from 1420' to 13 50' cement plug on the 7" casing stub.	320° or the placing of the
6	d. The placing of the cement plug at 558'.	
•	e. The location and hardness of the cement plug as	
	f. The placing of the 10-foot cement surface plug	
NOTE:	All unplugged portions of the hole shall be filled	with heavy drilling fluid.

Blanket Bond
JCS:fd
cc: Company L A
P D Elliston

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By C. H. Crurn, Deput



P564-299

#### DIVISION OF OIL AND GAS

# Notice of Intention to Abandon Well

This notice must be given at least five days bef	ore work is to begin; one copy only -
Bakersfiel	d, Calif. August 18, 1964
DIVISION OF OIL AND GAS	
In compliance with Division 3, Public Resources Code, notice	e is hereby given that it is our intention to abandon
Well No. "Cheney Ranch "2	, Sec. 29 , T. 14S
R. 13E , M. D. B. & M., Panoche Creek	Adnen
commencing work on See letter attached.	19
THE PRESENT CONDITION OF THE WELL IS:	Additional Data for Dry Hole
1. Total Depth: 7354' Plugged Depth 7280'	4. Oil or Gas showings and results of tests:
2. Complete casing record, including plugs:  11-3/4" 54# casing cemented at 538'.  7", 26# and 28# casing cemented at 7200' 5", 20# slotted liner from 7168-7279'	5. Stratigraphic markers and depths:
3. Last Produced 10-23-51 1  (Date) (Oil, B/D) (Water, B/D)  THE PROPOSED WORK IS	6. Formation at bottom:
The well is to abandoned by Ellison Oil Well a Avenal, Calif., as per letter attached.	Servicing Co., 201 W. Stanislaus St,
	Annual of the state of
S.	AUS 19 1904
Feference to file of data  Kap W 51	

HUMBLE OIL & REFINING COMPANY

1.	0.	DOW	0.1.2	-
 				(Addres
Da	7000	cfi oʻ	1.8	Cali

lif. FA 5-0741 (Telephone No.)

## ELL N OIL WELL SERVICING

oi west stanislaus street p.o. box <del>soc.</del> .698 AVENAL, CALIFORNIA

August 15, 1964

Humble Oil & Refining Co. P.O.Pox 612
Bakersfield, California

Attention: Mr. C.P. Sest

Dear Mr. Best:

This will confirm my verbal offer to abandon your Cheney Ranch Well #2, Sec. 29, T.14S, Rg. 13E. I will furnish rig, crew, and cerent, clean out and place all plugs to the satisfaction of the Division of Oil & Gas. I will receive all salvage as payment for my work.

of Insurance.

Very truly yours,

Elliston Oil Well Servicing Co.

P. D. Elliston

AUG 19 1964

60ALINGA, CALIFORNIA

# MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION (Proposed Well Operations)

Operator Humble Oild Befin Well No. "Cheney Ranch"/
Field Cheney Bauch Sec. 29 T. 145 R. 13 E M.D. BEM
personal  A telephone conversation was held, concerning above well, with Mr. Kessler
Engineer for above operator May 28 1964, at 400P M.
Details of the conversation were as follows:
Total depth 7354 Plugs_
Total depth 7354 Plugs  Casing record //3/4" Cem. 538; 7" Cem. 7200; 51/2 /d. 7162 -7273
perf. 7192'-7273
Oil or gas showings Producer
Results of tests
Stratigraphic markers
Geologic age at bottom Base of fresh water 1450'
Operator proposes the following work:
1. Plug off interval 7273 - 7100' D.O.G. to witness Load hard
2. Recover. Max. amount of 7" casing, Place plug from 1450-1350
ullet
3700 plot bepending on smooth recoursed pros. To withen pl
3. Pluy Shoe w/ 20' 14 4 20' out (558-518) D.O.G to check
50' stib plug depending on amount recovered. D.O.G. to witness pl 3. Plug Shoe w/ 20' in 4 20' out (558-518) D.O.G to check Additional requirements outlined: 4. 10' new suf plug
Additional requirements outlined: 4.10 Cens. Surf Plug
Test of W.S.O. to be witnessed by D.O.G. at By operator at
Test of W.S.O. to be witnessed by D.O.G. at By operator at Plugs to be located by D.O.G. at By operator at
Test of W.S.O. to be witnessed by D.O.G. at By operator at  Plugs to be located by D.O.G. at By operator at  Notice to be filed immediately (X) Yes ( ) Not necessary
Test of W.S.O. to be witnessed by D.O.G. at By operator at Plugs to be located by D.O.G. at By operator at
Test of W.S.O. to be witnessed by D.O.G. at By operator at  Plugs to be located by D.O.G. at By operator at  Notice to be filed immediately (X) Yes ( ) Not necessary

Ul. FORM 156

#### STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURC. DIVISION OF OIL AND GAS

 District 5
 District 5

sie procesi, calforia

Date June 25 1952

#### REPORT OF PROPERTY AND WELL TRANSFER

Former Owner: Jergins Oil Company

Description and list of wells:

Well No. "Cheney Banch" 2

T. 14 S. R. 13 E. . M. D. B. & M. Fresno County.

**KEISK** 

New Owner: Monterey Oil Company

1000 Jergins Trust Building

Long Beach 2 California

not necessary Request for designation of agent for

County should be sent to:

Name: Address:

Address:

Reported by: Letter dated June 19, 1952, signed by W. O. Davidson, Sec. for Jergins Oil

Confirmed by:

Company, and by Martin N. Erck, Asst-Sec. for Monterey Oil

Company.

Type of organization:

Corporation.

(Individual, partnership, corporation, etc.) .

Our records are being changed accordingly.

On June 2, 1952, Jergins Oil Company assigned its interest in the above Remarks:

well to Monterey Oil Company (70%) and Wilmington Associates, Inc. (30%).

On June 2, 1952, Monterey Oil Company took over and assumed all of the

operations.

Annual and Annual blanc

ce: U	onservation	Committee		
		INITIALS	DATE	
Form 121				
New Well	Cards			
Well Reco	rds			
Logs				
Production	n Reports			
M. O.E.		<u> </u>	7722.71.72	
		-	······································	
		<u> </u>		

; date acquired: June 2 1952

# JERGINS OIL COMPANY

#### PRODUCERS OF PETROLEUM

JERGINS TRUST BUILDING TELEPHONE 7-1231

#### LONG BEACH 2, CALIFORNIA

July 31, 1951

W. O. DAVIDSON SECRETARY

> State of California Division of Oil and Gas Coalinga, California

> > Attention: Mr. G. G. Peirce

Gentlemen:

In response to your letter of July 19, we wish to advise you that the correct location of our well No. "Cheney Ranch" 2, is 330° north and 990° east from the southwest corner of Section 29, T. 14 S., R. 13 E., M. D. B. & M.

Very truly yours,

JERGINS OIL COMPANY

W. O. Davidson

WOD/rb

#### Coalinga California

July 19, 1951

Jergins Oil Company 1000 Jergins Trust Building Long Beach 2 California

Dear Sir

In reviewing the records of your well No. "Cheney Ranch" 2, Sec. 29, T. 14 S., R. 13 E., M.D. B. & M., I find that the location of the well as given on your notice to drill is 330' north and 990' east from the southwest corner of Section 29, whereas, the location as given in the final records is 330' north and 990' east from the west one-quarter corner of the section.

Please inform me which of the above locations is correct.

Yours truly

G G PETRCE

Deputy Supervisor

GGP/gh

# DIVISION OF OIL AND GAS

# Report on Test of Water Shut-off

						No. T	5-3012
		Coalinga,		Calif	January	14,	19 41
Mr. Ha	rry A. Campbell	1					
Mo	tel El Rancho,	Fresno, Calif.			PRO	DSP	ECT
Dear Sir:		RGINS OIL COMPANY			natural management	W.E.L	and a second
		Ranch" 2 Sec.	29 , T. 1	4 S. ,	R. 13 E.	M. D.	B. & M.,
	XXXXX	Field, in	Fresno			County, w	2s tested for
shut-off of		nuary 7					s
-		Time and date as present as prescribed in					
were also p	present T. McCar	rty, Superintenden	t for Jergins	Oil Co.	; E. R. 1	vorris,	Superin-
tenden	t for Rowan & R	lichards, Contract	or.				
Location o	of water tested ab	ove 7200'	and normal flu	id level	not re	ported	
Depth and	manner \ 7200 shut-off: \	ft. of 7 in	26 & 281b. casi	ng was {	cemented } handedx } 1/1/41	in she	Ble mation
	-	sacks Victor	h.t. o.w.	amant by	1/1/41 casi i	n <i>s</i> z	
		10-5/8**		ement by_			
		L" cem. 538'; 7" a	Size reserved as aski	le tool	tastan o	n ezin a-	hole.
_		tail and pressu					
Dacker	. at /I/O., peri	· rair and brassn	the nount to 11.	/U . 1/3	TTT PAPO	CALL ONLY	poy a
					72801-735		
	•	554t. Hole bridged from see asured balout, and ba				7203 ft.	for this test.
At	see belo	<b>े :</b> 11	Lailad aa	£ J:11:	a \ b	ailed (	
At	Time and da	te top of oil foun	d at	f+ +	72 ) st f	wabbed \ \	rut.,
	MPBELL REPORTED	top or our roun	iu at	tu, top	or naid toni	nd at	IT
1.	The 7" casing	was not tested.					
2.		ment was drilled		casing,	equivale	ent to 1	.9 sacks
3.	A Halliburton	tester was run as ve was opened at	noted above.	i remein	ad anen i	Por 65 t	ninutes
4.	The tester val	ir blow of air fo	or 15 minutes.	There	was a fa	ir blow	of air
	for 14 minutes	, then dead for 4	8 minutes and	slight	pulsation	ns for t	the re-
	mainder of the	test.					
5.	The $3\frac{1}{8}$ " drill	pipe contained a	rise of 267'	of fluid	consist:	ing of :	L67' o
		id with some gas	and 100' of ve	ery thic	ek, srign	tly gas:	sy muo
6.	on bottom. The pressure test.	oomb chart indicat	ed that the te	ester va	lve was	open du	ring
	OHSTER ACORS						
THE SE	OT-OFF IS APPRO	VED.					
(0		4	R. D. BUSH	S C	_		
(Conti	inued on page 2)	ا پ	State Oil and O	328 Supervisor	ī		
		772	Rw				1

# STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

# Report on Test of Water Shut-off

No. <b>T</b>	5-3012
	2
Page	

Special Report on Operations Witnessed

JERGINS	OIL COMPA	NY			-									
Well No	"Cheney	Ranch"	2	Sec	29	T	14 S.	, R	13	E.	M.	D.	В.	& M.,

\*This test was not witnessed by a member of this Division because no Inspector was available but was witnessed as noted above and the information furnished by Mr. H. A. Campbell, Engineer and Agent for Jergins Oil Company.

RGF:my ec - Company, Long Beach R. D. BUSH

State Oil and Gas Superviso

.Deputy



" CALIFORNIA'S FINEST MC HIGHWAY 99 AT ROEDING PARK

FRESNO, CALIFORNIA

Jan 12 1941

Mr Wood.

Me

Swies the WSO on 7" we drelled out to top of plug at 7280, fuding 15' of lewent below the Text point at 7203.

Tell set 111' of 5" o. 9. 20# liver Weluding 81 of 80 Mech serps on bottom.

Cerculated mud out Three Tubning with Coalning 294. erude. Weel Started flowing without swalling but after 127 hour started mobiling water and gas.

the same as water wade intest below plugged point. Ran Lo Kate it while well was flowing their casual which also showed water entire at 7280. Are now preparing to



HIGHWAY 99 AT ROEDING PARK

" CALIFORNIA'S FINEST MOTOR INN "

FRESNO, CALIFORNIA

and re plug wont somewhat
afferent method.

The enclosing Lebhraherga
for your study. another view
be sent with Lestory and log.

We have a good gas pressure
and our concern now is to
themate the water and prove
a commercial well

Linewell

TWISION OF OIL AND GAS

RECEIVED

JAN 1 3 1941

OALLOIGA CALLEGENS

H. V. DODD, DEPUTY

7" Cufd



RICHARD SACHSE DIRECTOR OF NATURAL RESOURCES

#### STATE OF CALIFORNIA **DEPARTMENT OF NATURAL RESOURCES**

#### DIVISION OF OIL AND GAS

Coalinga, California January 10, 1941

Mr. Harry Campbell, Agent Jergins Oil Company Motel El Rancho Fresno, California

Dear Sir:

I have your letter of January 8, 1941, giving information relative to test of shut-off recently made at well No. "Cheney Ranch" 2, Sec. 29, T. 14 S., R. 13 E., M. D. B. & M., Fresno County. We shall need the following additional information in order to write our usual report on the test:

(1) Size and depth of the surface casing 538 113/4 ether it was cemented.
(2) Date of cementing the 7" casing. stating whether it was cemented. ~(2) Date of cementing the 7" casing.

\_(3) Amount of water cushion placed in the drill pipe for the test, if any.

it was held, and whether there was any loss.

at lotton (4) Description of the test made on the 7" casing before drilling out the cement. This will usually be a pressure test in which case we should like to know the amount of pressure applied to the inside, the time that

Yours truly

This was new seamles

so me test was made ligs H. V. Doddneys ran free and bale was Deputy Supervisor never more than 1/2° off.

Harrya Campbell Jan. 12 19 41 Moty El Rancho Fresno.

CHRISTON OF OIL AND GAS RECEIVED JAN 13 1941

(2) 制 1 现代品,作品 1 字序次明 3

notes El Raveho Fresuo Cao, Jan 8 1941 Mr HV. Dodd of Oil and Gas **FACEUM** Depety Seperousor JAN 9 - 1941 airorsion of Oil & gas PALINGA, CALIFORNIA Re WSO. Jergus Ois G. Chewey #2 Coalinga. Cal Dear Mer Dodd. Us per your letter of lan 2, 1941 O have the following report to submit regarding the U.S.O Test on our well Chevry #2, Lec 29, Townships 145. Kange 13 E. M. D. B EM. Fresur Co. Cal The text was made fou 7 194) between 5;15PM and 6:20 PM. The test was completed at 9:45 PM. We set 7 at 7200' work the bottom sod and the top 500' 28# while the baleve of the strung woo 26th. If was cemented in shale with 300 Sal Victor Vitemp by Parific. The hale was 10 / Rotary The Halliberton Tester was run on 31/2" Doheny-Stone Hydrill pipe with the packer at 7178 wat 17 of Tail piece below including perforates pipe and pressure Bowl. The Total drilles depth of the hole is 7354 was a Cement plug 7354 To 7280. The 7" was lauded at 7200' with a ten bot

bridge pumped out with the pipe at 7210 for this test the cowert was drilled out to 7203', or 3' helow the shoe.

105' of set Cement was drilled out of the 7" casing equivalent to 1900.

The Value was agreed at 5:15 PM. and ruinness open for I hour and 5 muntes. There was a fair blow for the 12T 1/2 muntes wat no other blow mutil 6:05 when began shight pulsations of few seconds duration. These continues with the lud of the test of 6:20 PM

There was fluid 267' above the value which was fluid rotary mud with some goo. 100' above the value, there was no fluid the mud being very thick and plastered on the interior walls of the pipe. 30' above the value the mud was puty-like with some gas.

There was no other Buig on the pipe. cot was entiruly to bale, probably from the shale at the shale or possibly from the sands below the plug:

The pressure bout industes that the pressure

When the value apened was 1900# but that this pressure gradually diminshed rutif at the end of the text

value opened was 3500 H. Those present beside the undersigned were, Mr ER horris Supt, for Rowan Ex Rechards Mr. McCarty Lupt for Jergus O'es Co. The test indicated to our satisfaction that the WSO on the 7" was good. yours Truly Harry & Campbell, Engmen tigut fergies Oil. Co.

> CARRY OF GIL AND GAS RECEIVED. JAN 9 - 1941

MALINGA, CANTERPUS

#### Coalinga, California Wanuary 2, 1941

Mr. Harry Campbell, Agent Jergins Cil Company Motel El Rancho Fresno, California

Y

Dear Sir:

Confirming our telephone conversation of this morning:

It is my understanding that well No. "Cheney Ranch" 2, Sec. 29, T. 14 S., R. 13 E., M. D. B. & M., Fresno County, has been drilled to a total depth 7354' and plugged back to 7280' and that 7-5/8" casing is standing cemented on a bridge at 7200'. It is also my understanding that the 7-5/8" casing is cemented over a sand in the Cretaceous that appears to have possibilities for furnishing commercial production.

In view of the fact that this well is in wildcat territory a considerable distance from this office, you are hereby authorized to witness the test of shut-off as the representative of this Division. For the purpose of this test, the cement should be cleaned out to not more than 5 feet below the 7-5/8" casing shoe and the test made in the usual manner.

After the test has been completed, please supply me with complete details as to the result thereof. In order that you may know the type of information that we wish, I am enclosing two skeleton forms that we ordinarily use for gathering data in the field, marked "A" and "B". "A" is for use when the well flows during the test of shut-off and "B" is the type that we use for tests when there is no flow. Please do not attempt to use the forms as they are being sent to you merely for the purpose of showing the information needed. The actual information should be sent to this office in the form of a letter.

Also, please note that we wish the names, title, and company affiliation of two other persons that were also present at the test.

Yours truly

Deputy Supervisor

THIS SHEET IS TO BE PLACED IN THE FILE IN LIEU OF THE CORRESPONDENCE TO WHICH IT REFERS.

Well No. "Thing Ranch" 2
Sec., Twp., & Range 29-14/32

Correspondence file No.

Company

Company Junes Ill to

The following correspondence has been placed in

Correspondence File No. WK- " hency far.	sed "1
Letter dated /-3-4/	et seq.
From-to allen Jargens- NVD	
Subject Well standingermented 12/3	3//40.

NOTE TO FILE CLERK: The left-hand heading, "Well No.", etc., should be used in the following cases, where the original letter is in the correspondence files or in the well records:

- 1. When correspondence refers to two or more wells. The original letter is placed in the first well file and this sheet in the other.
- When it relates to drilling or other general policies, but contains information in regard to particular wells.
- When it contains information not already in the well records, or which was not taken from the well records.

The right-hand heading should be used in such cases as the following:

1. When the correspondence covers two or more subjects, or where the classification is doubtful. File the original under the main subject, and use this sheet for the other subject reference.

R. D. BUSH
STATE OIL AND GAS SUPERVISOR



RICHARD SACHSE

# STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

FERRY BUILDING, SAN FRANCISCO

November 20, 1940.

Jergins Oil Company, 1000 Jergins Trust Bldg., Long Beach, Calif. we

Gentlemen:

Pursuant to your request, your well No.
"Cheney Ranch" 2, Sec. 29, T. 14 S., R. 13 E., M. D. B.
& M., Fresno County, is hereby designated as a pr.
well, as provided by Section 3218, Chapter 93, Statutes of 1939.

Yours truly,

State Oil and Gas Supervisor.

CC - Mr. H. V. Dodd

OVERUN OF DIL AND GAS OF JEIVET NOV 2 2 1940 PALINGA, CALIFFERD

# STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

# DIVISION OF OIL AND GAS

### Report on Proposed Operations

					No	. p 5-5481
		Coalinga,	~~~~~	Calif	November 12	3, 1940
Mr. Al	<u>Llen Jergins</u> 200 <b>Jergins</b> Tr	ıst Bldg.				
<u>L</u>	ong Beach,		Calif.			
Vice Preside	ent Agent for	JERGINS OIL COMPA	NY	······································		
DEAR SU	R:	÷				
	Your	proposal to	drill	Well	No. "Cheney	7 Ranch" 2
Section		13 E., M.D. B. & M.,				
dated No	ov. 7, 1940, r	eceived Nov. 9, 1940	, has been examined	in conjunct	ion with records	s filed in this office.
	Present conditions a	s shown by the records and	the proposal are as f	follows:		
	TICE STATES:	•				
		feet N. and 990 feet				
The	elevation of t	the ground above sea	level is 390	feet.		
	estimate that epth of about (	the first productive	OIT OF ERS S	ana snou	rra be encor	mrered at
	#					
PROPOSA						
	propose to use a as herein inc	e the following stri	ngs of casing	, either	· cementing	or landing
		Weight, Lb.				Landed or
	Inches	Per Foot	Grade and Type	9	Depth	Cemented
***************************************	11 3/4	Per Foot	C. C	enes.	500	Cemented *
* 171	his is a prosp	ect well and casing	points and con	mpletion	depth will	L depend on
	es and electric					
		lled with rotary too				
		that if changes in t ing or landing casin		me neces	sary we are	to notify
y O a	porore coments.	me or remark esem	<b>*</b>	-		
DECISI						
		no information as t		t which	oil or gas	bearing
		be encountered at t APPROVED PROVIDED TE				
		L not be located wit		71 YF 71 72 74 74 75	maker Taluca	
2,	The 11-3/4" c	asing shall be cemen	ted with suff	uy prope Kcient c	rey line. ement to fi	ll back
	of it from the	shoe to the surfac	e of the grou	ad.		· · · · · · · · · · · · · · · · · · ·
3.	Water suitable	e for irrigation sha	ll be protect	ed from	contaminati	lon.
4.		-out prevention equi	pment shall be	e provid	ed and read	ly for
5.	operation at a	ell times. not less than 70 lb.	man arriva da.		h = === # 3-	. 44
~*	drilling of th	ne well, and the col	. per cause to	niy ayəj ne gustr	. ve usea 11 I he mainte	i the
	the surface a	t all times, particu	larly while p	ulling t	he drill of	ine.
6.	THIS DIVISION	SHALL BE NOTIFIED:		-	<u>7</u>	- II-
		howing of oil or gas				
		anding or cementing			surface cas	sing.
	(c) to mitne:	ss a test of each we	ter shut-off.			
EITT) + mer		R	a. D. BUSH			

cc - Mr. Warren O'Kane

K. D. BUSH

State Oil and Gas Supervisor

Deputy

#### STATE OF CALIFORNIA DEPARTMENT OF-NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

# Notice of Intention to Drill New Well

	is notice must be given an	<del>-</del>		
00191				
		Long Beach	Calif. Nov	ember 7 1940
DIVISION OF OIL AND	ĜAS			101
Coali	nga	Cité		J5-5481
	<u> </u>	Calif.		V
In compliance with Sec	tion 17, Chapter 718, St	tatutes of 1915, as ame	ided, notice is h	ereby given that it is o
intention to commence the we	ork of drilling well No	Cheney Ranch #2	, S	ec. 29 , T. 14
R. 13, M.D. B. &	M., Panoche Creel	c area 🗼 📉	XX Fres	no Count
Lease consists of 160				
The well is 330 feet	N XXXX d 990	feet E XXXX from	SW Corner Se	ction 29
I he well isleet	(Give location in distance from	section corners or other corners of le	gal subdivision)	
Arms	delegheur	700 ±		
The elevation of the gro	above sea level is	fee	<b>.</b> .	
				<sub>ut</sub> 6700 <u>+</u> fe
We estimate that the first	st productive oil or gas san	nd should be encountered	at a depth of abou	it 6100 - fe
We propose to use the fo	ollowing strings of casing,	, either cementing or land	ing them as here	n indicated:
at Colt Value	Walks II. Per Fore	Grade and Type	Depth	Landed or Cemented
Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Берги	Landed of Cemented
<u>11 3/4</u>	54	č	5001	Cemented
				*
	'			
	1			
;				
	mell and casing	noints and comple	tion depth v	vill depend on
* This is a prospect	00720			vill depend on
	00720	points and comple s and electric lo		vill depend on
* This is a prospect Well is to be drilled with	rotary tools.	s and electric lo	g•	
* This is a prospect Well is to be drilled with	00720	s and electric lo	g•	
* This is a prospect Well is to be drilled with	rotary tools.	s and electric lo	g•	
* This is a prospect Well is to be drilled with It is understood that if	rotary tools.  **EXSIX** tools.  changes in this plan become	s and electric lo	g•	ementing or landing casi
* This is a prospect Well is to be drilled with It is understood that if  Address 1000 Jergin	changes in this plan becomes Trust Building	s and electric lo	<b>S•</b> tify you before c	ementing or landing casi
* This is a prospect Well is to be drilled with It is understood that if  Address 1000 Jergin Long Beac	changes in this plan becomes Trust Building h, California	s and electric lo	g. tify you before c NS OIL COMPA	ementing or landing casi
* This is a prospect Well is to be drilled with It is understood that if  Address 1000 Jergin	changes in this plan becomes Trust Building h, California	s and electric lo	g. tify you before c NS OIL COMPA	ementing or landing casi ANY erator)
* This is a prospect Well is to be drilled with It is understood that if  Address 1000 Jergin Long Beac	changes in this plan becomes Trust Building h, California	s and electric lo	tify you before c	ementing or landing casi ANY erator) Vice-Presider
* This is a prospect Well is to be drilled with It is understood that if  Address 1000 Jergin Long Beac	changes in this plan becomes Trust Building h, California	s and electric lo	tify you before c	ementing or landing casi ANY erator) Vice-Presider
* This is a prospect Well is to be drilled with It is understood that if  Address 1000 Jergin Long Beac	changes in this plan becomes Trust Building h, California	s and electric lo	tify you before c	ementing or landing casi ANY erator) Vice-Presiden

MAI INCA. CAI FROMIA

# **Well Records for Artificial Penetration #4**

England #1-31

(API No. 1900193)

#### STATE OF CALIFORNIA **DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS**

### REPORT OF WELL ABANDONMENT

T. DEN TO ARRECTION	Coalinga	California
MONTESEE	September 29, 1964	
And the second second		
	,	
ar D h riliaton		
Mr. P D Elliston P O Box 536		
Avenal California	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>7</b> 0.
Argent for ELLISTON CIL WELL.	SERVICING CO.	TO ANSIDECTION
		TON
DEAR SIR:		
. 1	. M. LOCKHART	
Your report of abandonment of	Well No. "England" 1-3	1
Sec. 31 , T. 14 S , R.13E , M	D B. & M., Cheney Ranch	field,
Fresno Cou	nty, dated September 24, 1964	, has been
examined in conjunction with recor	ds filed in this office.	
A review of the reports and reco	ords shows that the requirements of	this Division,
which are based on all information to	iled with it, have been fulfilled.	

No Bond Required

FLH:fd

cc: Conservation Committee

State Oil and Gas Supervisor

OH/Corum Deputy Supervisor

37864 3-61 5M SPO

#### STATUS

Completed Producing
Recompleted Producing
Completed Abandoned
Uncompleted Abandoned
Idle

R E Received	CORDS	Needed	e. P
1/ Hist Log Lge Sm El	Summary ory & Core Lec. Log(s) ect.Survey	LgeSm	
Location Elevation Release Bond Hold Bond Final letter 150b 170	No 130 Reason 2 1/29		9011-24
121 card 0 K 9-25		ON MA	- - - -

#### SUBMIT IN DUPLICATE

STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

#### DIVISION OF OIL AND GAS

#### History of Oil or Gas Well

OPERATOR L. M. LOCKHART	·	FIELD Che	eney Ranch	
Well No. "England" 1-31	_	ור רכ	जिल्ला <b>।</b> ए	M D
Well No. Bigtain 1-51				, <u>M. D.</u> B. & M.
Date September 24	, 19 <u>64</u>	Signed J	D. Cel	Ceston
		Title	Contractor	
(Address)	(Telephone Number)	•		(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

1964

Sept. 22 The  $5\frac{1}{2}$  casing was cleaned out to 1045, where the bailer encountered heavy mud.

Sept. 22 6 sacks of cement was dumped into the hole beginning at 1045, calculated to fill to 987.

The  $5\frac{1}{2}$ " casing was shot at 792° and pulled to 782°.

26 sacks of cement was dumped into the hole beginning at 794°, calculated to fill to 744°±.

The  $5\frac{1}{2}^{n}$  casing was pulled from the hole.

Sept. 23 | 33 sacks of cement was dumped into the hole beginning at 629, filling to 552.

The 14" casing was filled with dirt from 552' to 15'.

A total of 14 sacks of cement was mixed and dumped on the bridge at 15, filling to 5.

DIVISION OF OIL AND GAS RECEIVED SEP 25 1964 \$

COALINGA, CALIFORNIA

CALIFORNIA RESOURCES AGENCY DEPARTMENT OF CONSERVATION

#### DIVISION OF OIL AND GAS

#### Special Report on Operations Witnessed

No. T 564-256 P D Elliston P O Box 536 Coalinga Avenal, California September 25 1964 Agent for KILISTON OIL WELL SERVICING CO. DEAR SIR: L. M. Lockhart "Ingland" 1-31 Sec. 31, T. 14, S., R. 13 E., M.D. B & M. Operations at well No.... Field, in Freeno Cheney Ranch \_County, were witnessed . Mr. F. L. Hill September 24. 1964 \_\_\_\_, representative of the supervisor was present from 9:30 a.m. to 10:30 a.m. There were also present P. D. Elliston. Contractor Present condition of well: 14" cem. 609; 53" cem. 10,038, four holes 10,017, W.S.O.; shot and recovered from 792°. T.D. 10,357°. Plugged with cement 10,286°-9880°+, 1045°-987°+, 794°-744°+, 629°-552°, and 15°-5°. The operations were performed for the purpose of plugging the hole in the process of abandonment. reported: Inspector Hill was present at the well from 11:00 a.m. to 2:00 p.m., on September 23. 1964, and Mr. Elliston reported: The 52" casing was cleaned out to 1045" where very heavy mud was encountered. On September 21, 1964, 6 sacks of cement was dumped into the hole beginning at 1045', calculated to fill to 987'.
The 5g" casing was shot at 792', and was pulled up to 782'. A wooden plug was driven to 794. The Inspector noted that 26 sacks of cement was dumped into the hole beginning at 794, calculated to fill to 744. Inspector Hill was again present at the well from 9:30 a.m. to 10:30 a.m., on September 24, 1964, and Mr. Elliston reported that on September 24, 1964, 33 sacks of cement was dumped into the hole beginning at 629, filling to 552. The Inspector noted: 1. The bailer was spudded on a plug at 552 and brought up a sample of set cement. 2. The 14" casing was filled with dirt from 552' to 15'. A total of 14 sacks of cement was mixed and dumped on the bridge at 15. filling to 5'.

THE CEMENTING OPERATIONS ARE APPROVED.

FIH: ef

E. R. MURRAY-AARON State Oil and Gas

# STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION

### DIVISION OF OIL AND GAS

### REPORT ON PROPOSED OPERATIONS No. P 561,-310

Mr. P D Elliston	
P 0 Box 536	- Coalinga Calif.
Avenal California 93204	- August 28 1964
Agent for ELLISTON OIL WELL SERVICING CO	
Dear Sir: Your amond amont are proposal to abondon	L. M. Lockhart Well No. "England" 1-31,
Section 31, T. 143, R. 13F, M.D.B. & M.,	Chency Ranch Field, Fresno County,
	has been examined in conjunction with records filed in this office.
Present conditions as shown by the records and the proposal	
THE NOTICE STATES:  "The present condition of the well is  Total depth 10,357, plugged with  Complete casing record including plugged cem. 609.  52 cem. 10,038, four 3/8 hole	cement 10,357'-9,880', and 10'-surface. .ugs.
PROPOSAL:  "We now propose  Pull 5½" casing from as deep as particle of the second from below 1400, above 1400, cap 14" casing at the surface with	place cement plug 1400'-1300'. place 100' cement plug on the stub.
DECISION: THE PROPOSAL IS APPROVED.	·
1/21/64 Fillston/Corwini C.O. 1045, encountered very heavy mud. Study bailer, but finally worked larger. Will dump ber before shooting off 5/2 cgj.	

No Bond Required CHC:ef 2 ce: P D Elliston

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By C. T. Corwin , Deput

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

### DIVISION OF OIL AND GAS

### Supplementary Notice

	Coalinga	Calif	August 28	1964
DIVISION OF OIL AND GAS				
Coalinga	Calif.			
A notice to you dated August 9 abandon	L. M. Lockhar	, 19 <u>9</u> t	2, stating the	
	well No	Chance	<u>31</u> 4,5	
(Drill, deepen, redrill, abandon) Sec. 31, T. 14, S., R. 13 E.	, M. D. B&M		13000 180	Field,
Fresno	County,	should be amende	d because of chang	ged conditions.
The present condition of the well is as follows:				
Total depth 10,357, plugged wit	h cement 10,357°-9	,880°, and 1	O'-surface.	
Complete casing record including plugs.				
14" cem. 609°. 5½" cem. 10,038°, f	our 3/8 <sup>%</sup> holes 10,	017° W.S.O.		
We now propose				
If recovered from	om as deep as poss m below 1400°, pla above 1400°, pla the surface with 1	ce cement pl ce 100° ceme	ug 1400°-1300 nt plug on th	)†. leastub.
Reference to file of data  Map  Map  Map  Map  Map  Map  Map	Elliston	Oil Well Ser	vicing Co	
(Address)			Operator)	 71 -
(Telephone No.)	Ву	W. W.	Luci	LOV-

#### **DIVISION OF OIL AND GAS**

# REPORT OF CORRECTION OR CANCELLATION

	Coalinga	California
MR. P D Elliston P O Box 536	May 22 1957	
Avenal Calliornia		
ELLISTON OIL WELL SERVICING CO.		
Dear Sir		
In accordance with your letter dated	May 20, 1957,	
·		
the following change pertaining to yourswelland	tox L. M. Lockhart well No. 1	'England",
Sec. 31 , T. 14 S. , R.13 E. , M. D. B. &	M.,	field,
Fresno County, District No	o. 5 is being made in a	our records:
☐ The corrected location is		
I he corrected location is		
·		
☐ The corrected elevation is		
☐ Report No, dated		, has been
corrected as follows:		
:	1	
supplementary Your/notice to abandon		
Your/notice to abandon (Drill, abandon, etc.)	dated <u>Nay 6, 1953</u>	<b>;</b>
and our report No. P 553-128	, issued in answer thereto, are herel	by cancelled
inasmuch as the work will not be done. If	you have a drilling bond on file c	overing this
notice it will be returned. No request for su	ich return is necessary.	
□ Other:	·	
19520	wildcah Kis	t
	E. H. MUSSER State Oil and Gas Supervisor	
e: Mrs J O England	Source On and Gas Supervisor	

Dept of Water Resources

#### ELLISTON OIL WELL SERVICING CO.

201 WEST STANISLAUS AVENAL, CALIFORNIA

May 20, 1957

Division of Oil & Gas California Department of Natural Resources Coalinga, California

Gentlemen:

In answer to your letter of May 16, 1957 regarding my notice dated May 6, 1953 to pull casing from abandoned L.M. Lockhart well No. "England" 1-31, Sec. 31, T 145., R 13 E., M.D.B.& M, Fresno County, I would like to cancel this request temporarily, as I am planning to submit a request to do some exploratory work in that well prior to pulling the casing, provided I can get a lease.

I will contact your office prior to my doing any work on the well.

Very truly yours,

Elliston Oil Well Servicing Co.

P. D. Elliston

. 1904-1916 - Harrischwa

#### Coalinga California

May 16 1957

Mr P D Elliston Elliston Oil Well Servicing Co P O Box 536 Avenal California

Dear Sir

Please refer to your notice dated May 6, 1953, to pull casing from abandoned L. M. Lockhart well Mo. "England" 1-31, Sec. 31, T. 14 S., R. 13 E., M. D. B. & M., Fresno County.

In the event that this work has not been started, and you do not plan to commence the work immediately, please furnish this office with a letter requesting cancellation of the notice.

Yours truly

C. H. Corwin

C H CORNIN Deputy Supervisor

5/17/57 Elliston phoned. Plan to so into well soon. Estate problems, Will send in letter requesting concellation.

### DIVISION OF OIL AND GAS

## REPORT ON PROPOSED OPERATIONS

			No. P	553-128
atalan salahan ka	Coalinga	Calif	May 15	19 53
MR. P D Elliston				
P O Box 536 Avenal	Calif.			
Agent for ELLISTON OIL WELL	SERVICING CO.			
DEAR SIR:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		•	
Your supplementary proposal t	abandon	L. M. Lo Well N	ocknart Vo. "England" l	<u>-31</u> ,
Section 31 , T. 145., R. 13E., M. D.B. & M.,		Field,	Fresno	County,
dated May 6, 19 53, received May 14, 19	53., has been examine	ed in conjunctio	n with records filed	in this office.
Present conditions as shown-by the records ar	nd the proposal are as f	ollows:	•	
THE NOTICE STATES:  "The present condition of the well  1. Total depth. 10,357, plugge 2. Complete casing record.  14" cem. 609'.  5½" cem. 10,035', four 3/8'  PROPOSAL:  "The proposed work is as follows:  Pull 5½" casing from as deep as  If recovered from below 1400'.  " " above 1400'.  Cap 14" casing at the surface as a water well."  DECISION:  THE PROPOSAL IS APPROVED PROVIDED the placing and location and hard	possible.  possible.  place cement place 100 cent over the control over th	olug 1400; ment plug of er to lando	1300 . on the stub. wher for the	as
Location: 660 feet South and 660 fee	at East from ce	nter of Sec		47
The landowner, Mrs. John O. England, to whom the well has been quitclaid left in condition to convert to was	649-45th Avenue imed, has reque			

### DIVISION OF OIL AND GAS

### Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin; one copy only

	Coalinga Calif. May	6 19 53
DIVISION OF OIL AND GAS		
Coalinga	Calif.	
In compliance with Secs. 322.  L. M. Lockhothat it is our intention to abandon well No.	, 3229, 3230, 3231 and 3232, Ch. 93, Stat. 1 int "England" 1-31	939, notice is hereby given
	f. D. B. & M	Field,
Company and the company of the compa		
of Fresno	County, commencing work on the	day
	•/	
The present condition of the well is as follows:		
1. Total depth. 10,357, plugge	l with cement 10,357'-9,880', a	nd 10'- surface.
2. Complete casing record.		
14" cem. 609'.		011
5½" cem: 10,038', fou	3/8" holes 10,017' W.S.O.	
a Ti	The state of the s	-1/6/
	Constitution of the Consti	Marie Commence of the Commence
Pas -		7/
7		$\frac{2}{2}$
3. Last produced.		75)
The proposed work is as follows:	Nepoll Gravity	Cat
and the second second		
Pull 5½" casing from as de If recovered from below	ep as possible. (2400', place cement plug 1400'-	13001.
" " above	1400', place 100' cement plug o	n the stub.
Cap 14" casing at the surf as a water well.	w/o' of coment Masson	
Par.	w 10' of coment DIVISION OF C RECE	IL AND GAS
Kap   To File of Cons	LIAY 1 4	1953
	COALINGA, CA	LIPERILA
V	Elliston Oil Well	
	(Name of Operator	<b>'</b>
	2. C.P. D	togonain

May 4, 1953.

Division of Oil and Gas -- Attention Mr. Peirce: - Elm Street Coalinga, California

Dear Sir:-

We are owner of \$Sec\(\frac{1}{4}\) of Sec 31- Township 14, South-Range 13 East. Mr. Lockhart has quick claimed the property back to us- "England No.\(\frac{1}{4}\)."

We are selling the salvage-casing in the hole to Mr. Elliston's Company, the Oil Well Servicing Co. We want the well left in such condition so we can use it as a water well.

We appreciate Mr. Ellistons interest and thank you for any consideration in this matter.

Yours very truly,

Mrs. John O. England 649-45th Avenue

San Francisco, 21

California.

1.17 51953

CONTENTS I ALLER

# STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS

## REPORT OF WELL ABANDONMENT

***	Coalinga	, California,	October 2	7 , 19 52
76 26 TJ 77 4 4				
Mr M H Fuller Agent L. M. Lockhart Box 165				
Burrel Galifornia				
Dear Sir				
Your report of aband	onment of Well No.	"England"	1-31	
Sec. 31 , T. 14 S., R. 1				oil field,
Fresno	County, dated_	October 1	1, 1952	, has been
examined in conjunction w	ith records filed in th	is office.		
A review of the repo			irements of t	his Division
which are based on all infor				21, 101011,
which are based on an info	mation med with it,	nave been run	ineu.	
	•			
	icap is set	9 of data		PROPERTY AND STREET
GWH:ef		- Park		
Orig: Company, L.A. cc: Mr M H Fuller		D. BUSH Oil and Gas Supervise	or	
e de la companya del companya de la companya del companya de la co		P	D-4	
	Ву	7.	7. Ju	futy Supervisor

57615 2-52 12M SPO

#### SUBMIT LOG IN DUPLICATE

FILL THIS 5  $-\infty$  IN WITH TYPEWRITER. WRITE ON ONE BIDE OF PAPER  $\psi$ 

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

	,	,	LOG	OF OIL O	R GAS W	ELL			
Operator.	L. M. L	OCKHA	RT	I	ield PANOCA	HE GREET	C ARE	A, FRESNO	COUNTY
Well No.	"ENGL	AND" /-	31	Sec	<i>3/</i> , т	14 S.	R. 13E.	, M.D.	В. & М.
Location record of Date Oc. Glenn ( Comment	CENTER OF In compliance the present cor Hober II, M. Ear Engineer or Geolog accd drilling	with the production of the 1952  Nov. 27	E. FROM  31-14/13.  visions of Chap  well and all wo  M.H. FULL	ter 93, Statut rk done thereo  ER.  Completed	Elevation of grees of 1939, the m, so far as can	pund about about about information gives be determined igned	ive sea level	th is a complete a vailable records.  President, Secretary of Drilling tools	feet.
TE: WE 4- ME D.O.	ELL SUSPEN 17-51. (SEE NTARY NOTE 1.G. DATED	VDED @  SUPPLE -  VGE TO  4-10-51).  roduction	(date)  Clean Oil bbl. per day	Gravity Clean Oil	Flowing/gas lit (cross out unnece Per Cent Water including emulsion	ssary words) Gas	day managang.	Tubing Pressure	Casing
			C	ASING RECORD	(Present Hole				
e of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Scamless or Lapweld	Grade	Size of Ho		
14"	609'	SURFACE	47.54	New	SMLS.	of Casing	Casing lander		if through perforation
5-1/2"	10,038	4/	20 <sup>#</sup> &		"	N-80 & J-55	7-5/		
				PEREOR	ATIONS		Accession of the Control of the Cont		
ze of Casing	Tron A7	To	Size		Numbe		ce T		
5-1/2"	10,017 tc.	ft.		oles qua					
	fc.	ft.						-	//
	ft.	ft.							
**************************************	ft.	ft.	·						
	ft.	ft.							
5-1/7"	10,017 tc. tc. tc.	ft. ft. ft. ft.			Number of Row	for W.	S. O.	Model of Para Comfed. Co	H.

# DIVISION OF OIL & GAS

### HISTORY OF OIL OR GAS WELL

Operator: L.M. Lockhort

Panoche Creek Area - Fresno County

"England" 1-31 We //:

Sec. 31 - TI45 - RISE - MDB&M.

Date: October 11, 1952

Signed: Themmokarl.

Title: ENGINEER

Location: 660'S. and 660'E. from center of Section 31-14/13.

All depth measurements from Kelly Bushings. Elevations: Ground 406.6' (Surveyed). NOTE:

K.B. 419.1'

Glenn M. Earl, Engr. - M. H. Fuller, Lockhart Supt. Fowler Drilling Co., Contractor - O.D. Chose, Supt. - Woldrip Most.

## Casing & Hole Record:

14" 47.54 How Smls. SJ Csg. cmtd. w/700 sax cmt. at 609' in 20" hole.
10-5" hole 609' - 7425'. (Changed from 4-1/2" to 3-1/2" drill-pipe at 74251) 9 7/8" hole 7425' - 10,033' 7-5/" hole 10,033' - 10,357' (Total Depth)

5-1/2" 20# N-80 & 17# J-55 New Smls. Csg. cmtd. w/300 sax cmt. at 10,038'.

DATE	REMARKS
1950	Surveyed Location - Andersen Surveyors, Fresno.
11-16	Grading out sump; digging cellar; building road.
<b>,</b> //- /7	Pouring concrete for cellar. Laying concrete matte for sub-base and Waldrip Mast. Lee Boyd, Contractor. 22" conductor pipe. 80 yards concrete.
11-20	Installed water line. Sump completed.
11-22 11-23	Moving Fowler Drilling Co. equipment from Burne) to location "England" 1-31. Finished moving equipment from well "Burrel" 1-28. Rigging up.
11-24	Rigging up. Installed water pump.
// <i>-25</i>	Rigging up. Houled GGI of 14" 17.54 surface csg. (16 joints). 14" Bradenhead.
11-26	Rigging up.

1950

Drilled rat-hole in sticky clay. Spudded in at 2:00 P.M., Nov. 27, 1950.

Drilled 20" hole to 255' Eastman Single Shot Survey at 100' @ 1/4".

with Smith Reamer Bit. " " " 200' @ 1/4"

11-28

Drilled 20" hole 255' to Gog'. Survey at 300' @ 1000'
" " 400' @ 00 50'
" " 500' @ 10 00'
" " Goo' @ 10 30'

Started to run 14" surface csg. but pipe would not go after 2 joints run, Pulled the 2 joints of casing - balled up with mud at shee. Ran in hole with 20" Smith Reamer, reamed hole to bettem, and conditioned mud.

11-29 Ran 15 joints of 14" 47.54 tow scamless slip-joint casing equipped with Halliberton Float Shoe. Total pipe 613'. Casing landed at 609' and cemented with 700 sax Permanente Type-C Construction Cement treated with 2 sax Flogele. Mixing time 23 minutes. Displaced cement with 585 cu.ft. drilling fluid. Displacement time 38 minutes. Recovered approximately 120 sax cement to surface. Retated casing through cementing operations. Halliburton Power Equipment and bulk cement. Job completed 2:45 A.M.

Standing cmid. Landed 14° surface esg. and installed Shaffer B.O.P. equipment. Tested Double Control Shaffer Gate w/1000 to for 5 minutes. OK.

11-30 Ran in hole with 10-5/ bit on 4-1/2" drill-pipe and found top of cement in 14" csg. at 597". Drilled out cmt. plug, and shoe at 609'.

Tested B.O.P. with 1000 for 15 minutes. Test OK. Changed mud.

Drilled 10-5/8 hole 609'-1218'. Survey at 750' @ 1° 30'
" " 850' @ 1° 00'
" " 980' @ 1° 30'
" " 1090' @ 0° 45'

12-1 Drilled 10-5/8" hole 1218' - 1511'. Survey at 1280' @ 0° 10'.
" " 1380' @ 0° 30'.

Jumped a pin at 1511' and left a sub and two 6-3/4" drill-collars in hole. Ran Baash-Ross Socket and recovered fish on 3rd run.

Started toking Shaker Screen Samples at 1500' - every 30 fact.

```
1950

12-2 Drilled 10-5/" hale 1511' - 2084', Survey at 1480' @ 1° 00'

" " 1580' @ 0° 50'

" " 1780' @ 1° 00'

" " 1900' @ 0° 30'

" " 2025' @ 0° 35'
```

Pulled out of hole of 2084 to run 12-1/4" Hole Opener and open hole from 10-5/8" to 12-1/4" so that 8-5/8" cosing could be run. Security 12-1/4" Hole Opener would not go thru nipple above B.O.P. Tried 12-1/4" Security rock bit and it would not go thru.

Ron in with 10-5%" bit and drilled 2084'-2088'.

12-3 Drilled 10-518" hale 2088'-2835'. (Taking drift shots inside drill-pipe with Eastman Single Shot Survey Instrument approximately every 100'.)

```
Survey at 2/25' @ 0° 35'
" " 2730' @ 0° 45'
" " 2335' @ 0° 45'
" " 2445' @ 0° 30'
" " 2595' @ 0° 45'
" " 2744' @ 0° 30'
```

Used four 10- 1/8" rock bits from 609' to 2775'. NOTE: Began making Time Log at 2730': minutes per 10' of hale drilled.

- 12-4. Drilled 10-5/g" hole 2835' 3224'. Survey at 2835' @ 0°45'
  " " 2963' @ 0°45'
  " " 3063' @ 0°50'
  " " 3180' @ 1°20'
- 12-5 Drilled 10-5" hole 3224' 3470'. Survey at 3296' @ 100'.
  " " 3400' @ 1015'.

Used seven 10-5/8" rock bits from 609 to 3470'; from shoe of surface casing to approximate Top Kreyenhagen Shale.

12-6 Drilled 10-5% hole 3470 - 3597 . Survey of 3500' @ 10 05'.

Took Core No. 1 from 3597 - 3615'; Dunlap Conventional Core Borres; 8-1/2" Drag Head. Reamed out 8-1/2" rat-hole to 10-3% from 3597' to 3615.

```
1950
                                                                 Survey at 3620' ( 1º 00'
" " 3734' ( 1º 00'
" " 3836' ( 0° 50'
 12-7
                 Drilled 10-5/8" hole 3615' - 4020'.
                                                                       " 3940' 6 0° 55'
                  Toking Shaker Screen Samples every 30 feet.
                Drilled 10-5%" hole 4020' - 4350'.
                                                                  Survey of 4075' @ 10 00'
12-8
                Mud weight 75 - 77 # Viscosity 43 - 45
                                                                             " 4185 @ 1º 15'
                                                                             " 4300' @ 0° 55'
                Drilled 10-5/8" hole A350' - 4630'.
12-9
                                                                   Survey at 4405' @ 1000
                Mud weight 15-78 # Viscosity 43-18 Sand Content 2 to 3%
                                                                               " 4510' @ 0° 35'
                                                                               " 4608' @ 0°55'
                Drilled 10-5" hole 4630' - 4754'. Survey of 4710' @ 0°35'.

Cored 8-1/2" hole 4754- 4774' with Dunlep Conventional Bbl. @ 4-way drag head.
12-10
                Drilling with two 6-1/4" and two 7-1/4" drill-collars; total length 164.74'.
                Weight on bit 3 to 4 tons; 175 - Zoo r.p.m.; 800-900 psi pump pressure. 4-1/2" full-hole drill-pipe. Hughes OSC-3 and Smith 2-cone bits.
                Cored 8-1/2 hole 4774 - 4787 with same tools as above. Opened up 8-1/2" rat-hole 4754-4787' to 10-5/2".
12-11
                Drilled 10-5/" hole 4787' - 4950'.
                                                                              Survey at 4820' @ 1° 00'.
                Drilled 10-98" hole 4950' - 5150'.
12-12
                                                                       Survey at 4950' @ 100'.
                Measured out of hole. Corrected
                Measurements 5143'. Ran in hole
                with new 10-48" rock bit; found tight hole of 4970; reamed to bottom @ 5143'.
               Drilled 10- 1/2" hole 5143' - 5387' (244').
12-13
                                                                      Survey at 5182' @ 0° 45.
                                                                             " 5300' @ /° 30'.
               Drilled 10- 1/2 hole 5387' - 5451.55'.
12-14
                                                                              Survey at 5413' @ 0°30'.
              Ran Schlumberger Electrical Log and cheaked bottom @ 5451', and recorded from 5450' - Gog'. Ran Schlumberger Sidewall Sampler; recovered 16 samples from interval 5350'- 2695'.
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Drilled 10-5/ hole 5451 - 5480 .

12-21.

12-25

full.

# L.M. Lockhart "England" 1-31 WELL HISTORY (Cont'd.)

1950 Drilled 10-5, hole 54 - 5636' (156'). 12-15 Survey of 5514 @ 1º - 30. " " 5630 € 0°-40' Drilled 10-5/8" hole 5636' -5895' (259') 12-16 Survey at 5713' @ 0° 00' (?) " 5844' @ 1º 00'. Drilled 10- 1/8" hole 5895' - 6110' (215') 12-17 Survey at 5953' @ 0° 35. " 6085' @ 0° 00'. Drilled 10- 58" hole 6110' - 6140'. Cored 8-1/2" hole from 6140' - 6172'. 12-18 Coring with Dunlap Wire-line core barrel , 8-1/2" four-way drag head. Cored 8-1/2" hole 6172' - 6202'. Opened up 8-1/2" rot-hole 6140' to 6202' to 10-5/8". Drilled 10-5/8" hole 6202' - 6263'. Survey at 6263' @ 2° 00'. 12-19 Prilled 10-76" hole 6263' - 6410' (147'). Survey at 6380' @ 2° 10' Ran in hole with Hughes Two-Cone bit at 6387' in endeavor to straighten hole after above coring. 12-20 Survey at 6380' @ 2º 10' . Drilled 10-5/" hole 6410' - 6556' (146'). 12-21 Survey at 6500'. @ 2º 30'. Drilled 10-1/9" hole 6556' - 6647' (91'). Using Hughes LW3 Two-Cone bit. 12-22 Survey at 6598' @ 1º 30'. Drilled 10-5/8" hole 6647' - 6704' (57'). Survey at 6686' @ 1º 30'. /2-23 Instrument Co., 2200 W. Alabama, Houston, Texas.) Welded Detector to flow line. Macco mud tests at GG86: Weight 74-1/2"; Viscosity 55; Filtrate @ 30 minutes @ 7.2 c.c. water loss; Filter cake 2/32"; Sheer -Initial 0, Shear - 10 minute 7; Sand Content @ % X Volume 1.5. Mud has good test properties.

Drilled 10-5/8 hole 6704'-6730'. Shut down rig at 8:00 A.M. @ X-MAS.

Watchman mixed mud and Kept hole

Depth 6730'. Rig shut down.

1950

Started operating rig at 8:00 A.M. Went in hole with Smith K2-P rock bit; circulated and conditioned mud; reamed tight spots; reamed 300' of tight hole at bottom with the Smith cross-section bit; circulated and conditioned mud from bottom at 6730'.

Drilled 10-5/8" hole 6730' - 6733' in 2-1/2 hours before midnight.

Adjusted Gas Detector and started it operating.

12-27 Drilled 10-5/8" hole 6733' - 6791' (58').

Replaced Emsco Tail Clutch.

12-28 Drilled 10-5/8" hole 6791'-6938' (147'). Survey of 6800' @ 105'.
" " 6920' @ 100'.

12-29 Drilled 10-98" hale 6938' - 7070' (132'). Survey of 7030' @ 0° 55'.

Macco mud tests at 6979': Weight 15#; Filtrate @ 30 minutes @ 8.5 c.c. water loss; Filter cake 2/32"; Shear - Initial 0, Shear 10 minutes 6; Sand Content 1.7%. Sulphates in drilling water 50 9/9; Salt 20 9/9.

12-30 Drilled 10-3/8" hole 7070' - 7090'. Circulated and checked intensity reading on Gas Detector. Measured out of hole: Corrected Measurement 7091.68.

Ron 2nd Run Schlumberger Electrical Log and could not get below 6976. Recorded from 6975' to 5450'.

Ran in hole with Dunlop wire-line core barrel equipped with Hughes 8-1/2" rock head, Cored 8-1/2" hole 7091'-7111'.

- 12-31 Cored 8-1/2" hole 7111' to 7124'. Pulled out to make Open Hole Formation Test of interval 1112'-7124' in 8-1/2" rat-hole. Depth of well @ 7124'.
- (7112'-7124') FORMATION TEST NO. |. Ran Johnston Formation Tester on 4-1/2" full-hole drill-pipe. Tester equipped with 4-1/2" Suffiff Hydraulic Jars and Homco 4-1/2" Safety Joint. Used 2 8" x 21/8" x 30" straight wall packers. Set packers at 7103' and 7112' with 12' of 5-1/2" anchor. No water cushion used. Tester Value with 1/2" bean opened at 12:01 p.m. & remained open for 40 minutes. 1/4" bean at top. Packers held OK with only 1-1/2 loss of fluid during tast. There was a medium steady blow of air after 1 minute, which continued with gas to surface in 14 minutes, which continued during the remaining 25 min. of test with no increase in blow. Recovered a fluid rise of 15', consisting of slightly gas-cut medium drilling fluid. No saft water. The 2 pressure bomb charts indicated tool operated properly, the tester valve being open during the entire test. Pulled tester and ran back with Dunlop 8-1/2" wire-line core-bbl. with new Hughes rock head.

Cored 8-1/2" hale 7/24' - 7/26'.

1951

Cored 8-1/2" hole 7126'-7150'. Pulled out of hole to make Open Hole Formation Test of interval 7104'-7150' in 8-1/2" rat-hole. Depth of well@ 7150'.

FORMATION TEST NO. 2. Ron Johnston Formation Tester on 4-1/2" full-hole drill-pipe. Used Sutliff Hydraulic Jars & 4-1/2" Homeo Sofety Joint. Two 8" x 2-1/8" x 30" straight wall packers were set at 7095' & 7104' with 46' of 5-1/2" anchor. (7/04'-7/50') No water cushion used. Tester valve with 3/4" boon was opened at 4:00 p.m. Flow period @ I hour . Shut - in period @ 15 minutes. Packers set I hour & 15 min . & held ok. C I hour. Shut-in period C 15 minutes. Factors set I now a 15 min. & held ok. There was a medium, steady blow for I hour. Gas to surface in 22 minutes and continued for remainder of the hour. Recovered 2000 feet of fluid of which the top 180' was slightly gas-cut medium drilling fluid, and the remaining 1820' consisting of salt water. The 2 pressure bomb charts in dicated the tool operated properly. The abouts showed a flow pressure of 1000 at the end of the I hour flow period. During the 15 min. short in period, the pressure rose abruptly to 3100 and had fairly well leveled off at 3300 at the end. Pulled & broke down Tester Tools. Ran in hale w/8-1/2" Dunlap w/L Core Bbl. Reamed and cleaned out from 7140'-7150'.

1-2 Cored 8-1/2" hale 7150 - 7240'.

Ron in hole with 10-5%" rock bit and opened up 8-1/2" core-hole to 10-5%" 1-3 from 1091' to 7240'x Survey of 7240' @ 1º00'

Drilled 8-1/2" hole with Hughes OSC-3 rock bit 7240'- 7299'.

1-4 Drilled 8-1/2" hole 7299' - 7344'.

Ran 3rd Run Schlumberger Electrical Log and found bottom at 7339.

Recorded from 1338 to 6975. Ron Schlumberger Sidewall Sampler and recovered 10 samples from interval 7303-5488.

Installed heavy duty Rotary Table, and put in new floor around table.

Ran in hole with Hughes 10-9/8" OSC-3 bit and opened up 8-1/2" hole from 7240' to 7262'.

Finished opening up 8-12" hole @ 7262' - 7344'. Drilled 10-5/g" hole @ 1-5 7344 - 7425 . Survey of 7384 @ 1º05

Started laying down 4-1/ " drill-pipe.

Finished laying down 4-1/2" drill-pipe. Made up string of 3-1/2" Reed 1-6 & Hydrill drill-pipe and ran in hele with 9-7g Hughes OSC-3 bit.

Drived 9- 1/g" hole 1425' - 1435. Hole reduced from 10-8 to 9-1/g at 1425.

Drilled 9-1/2 hole 1435'- 7500'. Pulled out. Changed drill-pipe 1-7 rams from 4-1/2" to 3-1/2" on B.O.P. Picked up 8-1/2" Dunlap wire-line core bbl. and started measuring in hole.

# L.M. Lockhart "England" 1-31

## WELL HISTORY (Cont'd.)

1951

1-10

Finished measuring in hole. Corrected measurement @ 1499.

Could not break circulation to core. Pulled pipe and found inner barrel stuck in the 3-1/2" Hydrill drill-pipe. Layed down W/L core bbl.

Ran in hole with 8-1/2" Dunlop Conventional Core Barrel with rock head. Cored 8-1/2" hole @ 7499' - 7519. Core No. 33. Pulled pipe. Depth of well 7519.

1-9 (7480'-7519') FORMATION TEST NO.3 (MIS-RUN)

Ron in hole with Johnston Formation Tester on 3-1/2" Reed drill-pipe to make Open Hole Formation Test of interval 1480'-7519'. The 9" packer stopped 50' off bottom at 1469'. Pulled J.F.T. Ron in 9-1/3 bit and reamed tight hole 1450'-7499'. Opened up 8-1/2" core-hole 7499'-7519' to 9-1/3". Circulated hole clean and conditioned mud. Pulled pipe and made up J.F.T. to test interval 1480'-7519'. Depth of Well 7519'.

## FORMATION TEST No. 3-A (7480'-7519')

Ran Johnston Formation Taster on Reed 3-1/2" I. F. drill-pipe". Sutliff Hydraulic Jars & Homeo Safety Joint. Two 9" x 2-7/6" x 30" straight wall packers. Set packer at 7480' w/39' of 5-1/2" drill-collar anchor to 7519'. No water cushion used. Tester valve with 3/4" bean was opened at 2:15 AM. Packers set 2 hours, 30 minutes. Flow period 2 hrs., 15 min. Shut-in period 15 min. There was a light blow of air to surface in 1 minute, which continued in a light steady blow from 2:16 AM to 2:45 AM. At 2:45 AM, gas to surface in a light blow; gas burned with a 2-feet flame; continuous light blow of gas with weak heads from 2:45 AM to 3:45 AM. At 3:45 AM, fluid to surface, consisting of medium drilling-mud fluid flowing in regular heads. Well flowed fluid in regular heads at estimated 125 drate from 3:45 AM to 4:30 AM. At 4:30 AM, fluid had thinned down to watery drilling fluid and muddy water, and was beginning to taste salty (estimated @ 400 9/9). Made shut-in pressure test from 4:30 AM to 4:45 AM.

Pulled tester. The Z pressure bomb charts indicated tool operated properly.

Ran in hole willughes OSC bit, reamed to bottom, and drilled 9-1/8" hole @ 7519'-7586'.

- 1-11 Drilled 9-1/8" hole @ 7586'-7685' (99').
- 1-12 Drilled 9-7/8" hole @ 7685' 7775' (90').
- 1-13 Drilled 9-7, hole @ 7775' 7843' (68'). Survey at 7813' 01°00'.
- 1-14 Drilled 9-7/8" hole @ 7843'-7896' (53'). Survey at 7896' @ 100.

1951

Drilled 9-7," hole 7896 - 7899 (3'). 1-15 Retary table broke down; bearing roce retainer broken. Pulled out of hole at 7:30 A.M. Dismantled and repaired rotary table. Started in hole at 10:00 P.M. with Smith 2- Cone bit.

Drilled 9-78 hole 1899 - 1955 (56). Smith 2-cone bit drilled from 1-16 7896" - 7930' (34') and was pulled dull , Ran in at 7930' with Reed LT Type rock bit,

Drilled 9-7/8" hole 7955' - 8107' (152'). Survey of 8107' @ 100'. 1-17

Drilled 9-1/8" hole 8107' - 8274' (167'). 1-18

Drilled 9-7," hole 8274' -8377' (103'). Survey at 8277' @ 0° 35'. 1-19

Macco mud analysis by Clem Thompson:

(Reaming to bottom at time of fest). Depth: 8280

Weight: 80-1/2 lbs/cu.ft. Viscosity: 1500/Qt. @ 130 (Mud had not been conditioned).

Filtrate: 30 min. @ 10.5 c.c. water loss.

Filter cake 3/32" Shear: Initial O

": 10 min. 6.5 Sand Content: 4.5% Salt: 150 gr./gal.

Sand content is up. Salt content is up from 20 gr./gallon @ Jan. 5, 1951 to 150 gr./gal. today.

- Drilled 9-7 hole 8377 8442' (65'). Measured out of hole @ 8406'; used 1-20 corrected measurement @ 8411'. Re-lined brakes.
- Drilled 9-1/8 hole 8442'-8513' Made Run No.4 @ Schlumberger Electrical 1-21 Log to 8503', & recorded 8502 - 7338', No side wall samples taken . Drilled 9-78" hole 8513'-8518'.
- Drilled 9- 18" hole 8518' 8593 . Made trip & changed bits. 1-22
- Drilled 9-1/8" hale 8593' 8637', Survey of 8637' @ 1°00'x 1-23
- Drilled 9- 1/8 hole 8637'-8704'. 1-24
- Drilled 9- 1/8 hole 8704 8760. 1-25

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1951
            Drilled 9- 7/8" hole 8760' - 8795'.
 1-26
                                                           Survey of 8781' @ 1º30'
            Drilled 9-7 hole 8795' - 8833'.
 1-27
            Drilled 9- 1/8" hole 8833' - 8857'.
 1-28
            Drilled 9-1/8" hole 8857'-8909'
1-29
            Drilled 9-1/2 hole 8909'-8954'.
1-30
                                                          Survey at 8921' @ 1º45'
            Drilled 9- 1/8" hole 8954 - 8985'. Took wire-line cores in interval 8985'-8995'.
 1-31
            Cored 7- 1/8" hole 8995'- 9007'. Reamed core-hole (8985'- 9007') to 9-1/8" &-drilled 9-7/8" hole 9007'- 9022'.
 2-1
            Drilled 9-1/8" hole 9022'- 9068'
2-2
2-3
            Drilled 9-1/8" hole 9068'- 9125'
            Drilled 9-1/8" hole 9125' - 9165'
2-4
                                                          Survey of 9165' @ 1º45'
            Drilled 9- 1/8" trole 9165' - 9209'
2-5
            Drilled 9-1/8" hole 9209' - 9261'.
2-6
            Drilled 9-1/8" hole 9261' - 9305'
2-7
                                                          Survey at 9305' @ 1000.
            Drilled 9-1/8" hole 9305' - 9351'
2-8
            Drilled 9- 1/8" hole 9351' - 9413'. Flow-line mud temperature @ 138.
2-9
2-10
           Drilled 9-1/8" hole 9413' - 9474'.
                                                         Eastman D. P.S.S. Survey@ 9426'@ 0°30'.
           Drilled 9-1/8 hole 9474' - 9511'. Measured out of hole: Corrected
2-11
                    Measurement 9504'. Ron Run No. 5 @ Schlumberger Electrical Log 8 found bottom at 9504'. Recorded from 9503' up to 8502'.
           Drilled 9-1/ hole 9504' - 9558'
2-12
           Drilled 9-18" hole 9558' - 9590'.
2-13
                                                           Survey at 9570 @ 1.00.
           Drilled 9-1/2 hole 9590' - 9635'
2-14
           Drilled 9-1/8 hole 9635' - 9674'
2-15
           Drilled 9-1/2" hole 9674' - 9707'
2-16
           Drilled 9-1/8" hole 9707'-9738.
2-17
                                                         Survey of 9711 @ 1°00'
           Drilled 9-1/ hole 9738' - 9784'.
2-18
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3-3

# L.M. Lockhart "England" 1-31

## WELL HISTORY (Cont'd.)

1951	
2-19	Cored 7- 9 hote 9784' - 9807'. Duntap wire-line; Hunt Bol; 7-9 Hughes rock hear
2-20	10 " 9807 - 9827 . " " " " " " " " " " " " " " " " " "
2-2/	" " 9827'-9836'. " " " " " " "
	Ran in hole w/ Hughes 7- 5/" rock bit & drilled @ 9836'- 9849'.
2-22	Drilled 7-5/8" hole 9849'- 9903'.
2-23	Cored 7-5/g" hole 9903'-9938'. Dunlop W/L; Hunt Bbl.; Hughes rock head.
<i>7-24</i>	" " " 9938-10,002. " " " " " " " "
2-25	" " 10,002 - 10,011 AS ABOVE. Pulled out of hole to run Schlumberger and found 7-56" rock core head bodly worn and all 4 cutters missing.
	Ran No. 6 Schlumberger Electrical Log & found bottom @ 10,008.  Recorded 10,007'-9503'. Ran Mª Cullough Magnetic Fishing Tool to recover rollers from core head. Stuck tool corning out of hole at 6594'.  Pulled wire-line loose and came out of hole; leaving body of Magnet, approximately 3' in length, in hole.
Z-2G	Installed new drilling line and measured in hole w/MSCullough overshot.  Tool would not go below 3000'; hole too tight. Pulled out & ran Security 9-18" Hole Opener to 6592' where top of fish located. Fried to knock magnet loose, where apparently key-seated where hole has greatest deviation of 2-1/2".  Hole rough. Pulled pipe. Made up Baker Expansion Scroper with 12-1/2" blodes.
z-27	Ran in hole wiscroper and was unable to open same. Pulled out and made up new scroper. Ran in and scraped above fish and below fish to 6599. Pulled out & made up Security Hole Opener. Ran hole opener to 6600', cleaned out bridge 6600' to 6620', and reamed 9-1/8" hole to 7704.
2-28	Reamed 9-7/8" hole 7704' - 9784'. Opened up 7-5/8" rat-hole 9784'-9835' to 9-7/8" w/ Security Hole Opener. Fish apparently dropped to bottom.
3-/	Opened 7-5," hole to 9-7, from 1835' to 9857'. Pulled out and ran back with 9-7, Hughes OSC-2 bit.
3-2	Opened 7-5/ hole to 9-7/ from 9857 to 9995' 9-7/ X 7-7/ shoulder at 9995'

ME Cullough Magnet at 10,006'. Pulled out of trole. Recovered Magnet.
Broke down ME Cullough Teals. Made up Globe Basket and run in hole to fish for cutters from Care Bbl. head.

3-4 Reamed down to 10,007' with Basket & tried to pick up cones. Pulled out. No recovery- Ran in w/Hughes 7-86" bit & reamed fight hole 10,000'-10,007. Con-

Pulled out of hole and ran bock with ME Cullough Socket . Fishing for

ditioned mud & pulled out. Made up 7-1/4" Globa Junk Basket & ran in hole.

Drilled 10,007'-10,008 w/Basket Pulled out. No recovery cones or core.

1	951	

- 3-5 Serviced Basket & ran back in hole. Drilled 10,008 10,009.50 with Basket.

  Recovered 2-1/2 cones. Ran in w/ Hughes OSC 7-5/8" bit and hit junk at
  10,010's
- Found 2 pieces of junk above bit cones.

  3-6 Drilled & worked junk, w/7-8," bit 10,010'-10,013' and pulled out. Ran in hole w/7-14" Globe Junk Basket, and cored 10,013'-10,015' with Basket.

  Pulled Basket & recovered 1.5' hard gray Sandstone. (See Core No. 69-A).

  Made up 7-86" Dunlap Wire-Line Core Bbl. and ran in hole. Conditioned mud.
- 3-7 Cored 7-98" hale 10,015' -10,025'. Cored on junk first 5' (10,015'-10,020').
  Pulled core-bbl & ran 7-58" Hughes OSC bit. Drilled 7-58" hale 10,025-10,036'.
- 3-8 Drilled 7-5 hole 10,036' 10,085'
- 3-9 Drilled 7- 8 hole 10,085' 10,125'. Ron Dunlop 7-8 "Core Barre) and cored from 10,125'-10,145'. (Wine-line, rock head).
- 3-10 Cored 7-5/8" hole 10,145'-10,165'. Made trip.
- 3-11 Cored 7-8," hole 10,165' 10,202'. Circulated & conditioned hole for Electrical Log. Ran Schlumberger & checked Drillers' bottom @ 10,202'. Recorded from 10,201' up to 10,007' @ Senlumberger Run No. 7.

  Ran Schlumberger Microlog and recorded from 10,200' up to 9730'. Device did not register properly. Results N.G. Did not re-run Microlog.
- 3-12 Ran to bettom w/7-9/8" bit. Struck bridge at 10,147' and cleaned out to bottom @ 10,202'. Circulated & conditioned mud. Pulled out. Ran Homco Side wall Sampler and took side wall samples in interval 10,119' 10,088'.
- 3-13 Took Homeo side-wall samples in intervals . 10,082 10,045 & 10,177 10,124.

Ran in hole w/1- 1/8" Dunlap Core Bbl. Circulated and cleaned out 10,164 - 10,202 (bottom). Circulated, added new mud, and conditioned hale for formation test. Pulled pipe. Depth of Well @ 10,202'. To make open hole formation test in 7-5/8" rat-hole of interval @ 10,142' - 10,202'.

# 3-14 <u>FORMATION TEST No. 4</u> (10,142'-10,202')

Ran Johnston Formation Tester on Read 3-1/2" I.F. drill-pipe. 4-1/2" Sutliff Hydraulic Jars & 4-1/2" Homeo Safety Joint. Two 7" x 2-7/6" x 30" straight wall packers set et 10,133' & 10,142' with 60' of 4-1/4" drill collor anchor to 10,202'. Used 1200' of fresh water custion. Tester valve with 1/2" bean was opened at 11:14 AM and remained open I hour. There was an immediate weak steady blow decreasing to dead in 9 minutes @ 11:23 AM. Dead for 5 minutes. At 11:28 AM, a week steady blow of air egain, increasing to a fair steady blow at 11:35 AM. From 11:35 AM to 12:14 PM, a fair blow with long heads. No gas to surface. Rocovered 240' net rise of medium, gassy drilling fluid; no free water. The 2 pressure bomb aborts indicated tool operated properly.

1951

3-15 Ran in w/ Dunlap 7-5% wire-line core-bbl. and cored interval 10,202'- 10,253'.

3-16 Cored 7-5/8" hole @ 10,253' - 10,297'. Conditioned mud & hole for Formation test of interval 10,202' - 10,297'. Pulled pipe.

3-/7

## FORMATION TEST No.5 (10,202'-10,297')

Ran Johnston Formation Tester on 3-1/2" full-hole D.P. 4/2" Sutliff Hydraulic jars & 4-1/2" Homeo Safety Joint. 1300' of fresh-water cushion. Set two 7" x 2-7/6" x 30" Straight wall packers at 10,193' & 10, 202' with 95' of anchor to bottom @ 10,297'. Tester valve with 1/4" bean on bottom was opened at 7:42 MM. There was a medium, steady blow for 5 minutes; then fluid began drapping in annulus as packer started to leak. Attempted to re-set packer during which time (7:47 MM to 7:50 MM) fluid went away at an increased rate; may have opened equalizing valve in this operation. At 7:50 AM closed shut-in valve to take B.H. closed-in pressure. Let stand 5 minutes. At 7:55 AM opened equalizing valve; and then pulled packers loose, requiring a 160 ton pull. Charts indicated a 5 minute flow period with a pressure rise to 950 during that interval. (100 p. @ water cushion indicated an charts.) Packers may have been set in fractured rock and fluid leaked around packers thru fractures.

Recovered a net rise of 660 of very gas-cut fluffy oily mud. Gas bubbled and furned at top of fluid and blew mud fluid out of drill-pipe, cleaning out 1-1/2 to 2 stands at a time. No free or salt water in net rise in drill-pipe or in tool.

Ran in hole with 7-5/8" Dunlap wireline core-bbl. Conditioned mud.

3-18 Cored 7-5/8" hole @ 10,297' - 10,342'.

3-19 Cored 7-5/8" hole @ 10,342'-10,357'. TOTAL DEPTH OF WELL @ 10,357'. Conditioned mud and hole. Pulled out. Tested B.O.P. -OK. To make open-hole fermation test of interval 10,297'-10,357' in 7-5/6" rat-hole.

# FORMATION TEST No. 6 (10, 297'-10, 357')

Ran Johnston Formation Tester on 3-1/2 F.H. drill-pipe, equipped as above. 1500 fresh-water cushion. Set double straight hole packer at 10,297 & 10,288, with 60' of 4-1/1" drill-collar anchor to bettem at 10,357. Tester valve with 1/2" been was opened at 6:05 PM & remained open I hour. There was a medium steady blow for 13 minutes, then dead for 5 min., then a light steady blow for remainder of test. Closed valve at 7:05 PM and took shur-in pressure for 10 minutes. Packers set I hour, 10 min. Recovered 4-1/2 stands (405') net rise of gas-cut drilling fluid. Medium salty taste; tested properly and did not plug.

1951

3-20 Ran to bottom w/7-5/g" bit. Circulated and conditioned mud for Electrical Log. Salinity of mud @ 50 grains per gallon.

Made Schlumberger Electrical Log Run No.8. Recorded from 10,359' to 9,960' (See Field Print).
Total Depth of Well @ Schlumberger 10,360'.
"" " Driller 10,357'.

Started back in hole wopen-end drill-pipe to place coment plug in bottom.

- Ran open and drill-pipe to 10,297'. Circulated & conditioned mud for plug job. With open-and drill-pipe hanging at 10,286'- mixed and pumped in 50 sax Permanente Hi-Temp. Coment, using 50 cu.ft. Water ahead and 10 cu.ft. water behind. Displaced coment with 420 cu.ft. of drilling fluid. Halliburton Power Equipment. Job completed at 10:00 MM. Pulled out of hole. Ran in hole width-collar and Hughes 7-56" OSC rock bit. After 12 hours felt for plug with bit at 10:00 PM. Found coment stringers at 10,123'; took 2 to 3 tons weight. Found set coment at 10,135'; took 6 tons weight.
- FORMATION TEST No. 7 (10,034-10,135') Mis-RUN

  Circulated & conditioned mud from 10' above plug for open-hole formation test in 7-5," rat-hole from 10,034' to top of cement plug at 10,135'.

  Ran Johnston Taster on 3-1/2" F.H. drill-pipe. 1200' fresh-water cushion.

  Used double straight hole packer with bottom of packer at 10,034'. 101' of anchor to 10,135'. Tried to set packer at 10,034'. Dropped bar to open valve and cement plug gave way when valve opened. Packer slid down hole & would not hold. Pulled tester.
- 3-23 Ran in hole widrill-pipe & 7-7," bit & cleaned out coment from 10,129' to 10,203'.

  Circulated and conditioned mud & hole for another plug job. Pulled pipe.

  With open and drill-pipe hanging at 10,203', pumped in and displaced 25 sax modified coment with Halliburton Power Equipment. Coment in place 3:00 P.M. Standing comented.
- 3-24 Ran in hole with two 5-74" drill-collars & 7-78" Hughes OSC rock bit. At 3:00 AM felt for plug. Found cement at 10,140" which pumped away. Cleaned out to 10,150'. At 7:00 P.M. Set weight on cement plug at 10,150'. Held 25,000#.

## WELL HISTORY (CONT'd.)

/	4	5	1
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- 3-18 In hole w/9-78" bit. Reamed fight hole 7450' 7709'.
  Reamed 9-78" hole to 8372'.
- 3-29 Reamed tight 9-1/g" hole 8372'-8491'. Opened up 7-5/g" hole from 9995' to 10,033'. Circulated & conditioned mud to run 5-1/2" casing.
  - Ran 231 Joints 5-1/2" Casing as follows:

1966' OF 20 # N-80 8TR on Bottom.

8076' OF 17 # J-55 8TR including 1 Jt. 20 # N-80 on top.

10,047' = Total Pipe on Hook. With shoe at 10,038'.

Float Collar at 9993'

- 3-30 Cemented with 300 sox Permanente Modified Cement.

  Mixing Time 16 minutes. Used 2 Top Rubber plugs.

  Displaced with 1293 cubic feet drilling fluid. Displaced 93 cubic feet over normal computed displacement.

  Displacement time 39 minutes. Final Pressure 500 .

  Job completed 1:45 AM, 3-30-51. Halliburton Power Equipment and Bulk Cement. Casing Centralizing Guides were set at 10,029.50, 10,008.80', and 9992.00'.
- 3-31 Standing Contd. Landed 5-1/2" csg. Installed B.O.P.
- 4-1 Laying down 3-1/2" drill-pipe. Making up 2-3/8" tubing.
- A-2 Ran in hole with A-1/2" Hughes Tricone Bit on 2-3/8" fbg. Broke circ. at 3900', 6400', & 7400'. Found rubber plugs at 9992'. Drilled out plugs and F.G. to 9994'. Drilled out cement to 10,030'. Tested casing & B.O.P. with 800 # for 15 minutes. OK.
- 4-3 Shot 4-3/ holes at 10,017' in 5-1/2" esg. w/McCullough 3-1/2" Mech. Gun Perforator for W.S.O. Test.

W.S.O. TEST: Ran Johnston Formation Tester on 2-3/8" tubing with 1395' of fresh-water cushion. Packer was set at 9947' w/tailpiece to 9964. Tester valve with 1/2" bean was opened at 7:29 AM and remained open I hour. There was a light steady blow for 16 minutes, and then light heads for the remainder of test. Recovered a net rise of 3099' of gassy drilling fluid. Fluid was very gassy and would occasionally unload, blowing 60 to 70 feet into the air. The pressure bomb charts indicated the tester valve was open during the entire test. Water shut-off test was witnessed and approved by Mr. G.W. Hunter of the Division of Oil & Gas, Coalingo.

# L.M. Lockhart "England" 1-31

## WELL HISTORY (Cont'd.)

1951

- 4-3 (Cont'd.) Ran in hole w/1-1/2" Hughes Tricone rock bit on 2-3/6" they found top emt. at 10,079'. Drilled out emt. to stoc found at 10,038'. 2' of emt. below shoe. Cleaned out to top of cernent plug (new bottom) which was located at 10,169. (irculated & conditioned mud.
  - 1-4 Cire. & conditioned mud midnight to 8:00 A.M. Ran 2-3/6 tbg. & landed shoe at 10,020'. Removed B.O.P. and installed X-mas tree. Changed mud to fresh water. Circulated well with fresh water.
  - 4-5 Swabbed well beginning at 10:00 A.M. At 5:00 P.M. swabbing from 5960; fluid level 4760; no fluid rise.

    Removed X-mas tree; flanged up B.O.P.; checked open
    hole to bettom witubing OK. Removed B.O.P. and installed
    X-mas tree. Swabbing.
  - 4-6 Swabbed from midnight to 9:30 A.M. when fluid level 4474' & swabbing from 5474'. Removed X-mas tree & flanged up B.O.P. Changed water to mud.

Hung open-end they at 10,167. Mixed and pumped in 50 sax modified coment. Displaced with 214 cu.ft. drilling fluid. Top of plug approx. 9880. Job completed 7:30 P.M. by Halliburton Comenters.

4-7 Left 5-1/2" casing in place as comented with Bradenhead level with top of cellar.

Hole filled w/heavy drilling fluid from 9880 to surface.

- 4-12-51 Bolted steel plate over top of casing at surface.
  Suspended well in above condition.
- 2-21-52 Plugged top 10' of casing with coment.
  Welded steel plate over top of casing.
  10-11-52 Well is abondoned.

1951

3-25 FORMATION TEST No. 8 (10,049 - 10,150') MIS-RUN

Ran Johnston Formation Tester on 3-1/4" I.H. drill-pipe to make open hole test in 7-5/6" rat-hole. 1200' fresh-water cushion. I side-wall packers at 10,040' & 10,049' with 101' of D.C. anchor to top of contpluy at 10,150'. Packers failed to hold.

# FORMATION TEST No. 9 (10,041'-10,150') MIS-RUN

Ron J.F.T. as obove. 1200' fresh water cushion. 2 side wall packers at 10,032' & 10,041' with 109' of D.C. anchor to top of cement plug at 10,150'. Plug slid down to 10,166'; then packers failed to hold.

3-26 Ran in hole w/7-9/" bit to 10,166'. Conditioned mud & hole: —
Mud Weight 85-88#. Viscosity Go-75 seconds.
Sand Content 2%. Water Loss 8 c.c. Cake Thickness 2/32.

## FORMATION TEST NO. 10 (10,013'-10,166') MIS-RUN

Ran J.F.T. on 3-1/2" D.P. 1200' fresh-water cushion. 2 side-wall packers at 10,004' & 10,013' with 153' of D.C. anchor to top of cmt. plug at 10,166'. Packers failed to hold. Pulled tester.

3-27 Ran in hole w/7-5/8" bit & conditioned mud to 85# 8 50 Vis.

Measured in and found top of cement plug at 10,163' Corr. Meas.

# FORMATION TEST NO. 11 (10,002'-10,163') MIS-RUN

Ran J.F.T. on 3-1/2" D.P. 1/2" bean. 1200' fresh water cushion. 2 side-wall packers at 9993' & 10,002' with 161' of D.C. anchor to top of cement plug at 10,163' (Corrected Measure ment). Fluid dropped in annulus. Packers would not hold.

L.M. LOCKHART

Core #7 6170-6180

Core #8 6180-6190

101

9t

Rec. 10'

Rec. 91

Shale, same.

Shale, same.

"England" #1-31

Section 31-14S/13E (MDBM)
Panoche Greek-Cheney Ranch Area

Location: 660' S. and 660' E. of center of Section

blevation: 419 (K.B.)

#### CORE DESCRIPTION

Core #1 3597-3615 Rec. 19 191 Siltstone, medium brown, hard, weathers to crumbly, medium gray pokerchip shale, rough hackly fracture, massive, rare light brown inclusions, indicating +6° dips, common forams, Dentalina, et al, scattered fish scales, rare echinoid spines, no petroleum shows. Core #2 Missing. 3615-4774 Core #3 4774-4787 Rec. 21 611 Sandstone, medium gray, fine grained, massive, very hard, cemented, very common micas, tight, no petroleum shows. 116" Silt, light-medium gray, very coarse, massive, very soft, friable, micro-micaceous, scattered larger crenulated biotite, very poor porosity and permeability, no petroleum shows. 4787-6140 Core gap - drilled. Core #h 6140-6150 21 Sand, very light grey, fine grained, very silty, kaolinitic, massive, firm-friable, fairly poor porosity and permeability, no petroleum 31 Shale, medium to dark brownish grey, soft, very brittle and easily fragmented into wafer thin fragments, very silty, rare pyrite, forams. Core #5 6150-6160 Rec. 10 6ª Sand, as in last core but mixed with drilling mud. 916H Shale, as in base last core, rare well preserved plant remains, local numerous large forams, Siphogenerinoides, scattered small forams, one possible ostracod valve. Core #6 6160-6170 101 Shale, same, with rare 3"-4" Sand (same) streak with rare 57° dipping calcite veins. Sand is friable, very light to light grey with brownish cast, no petroleum shows, poor porosity and permeability.

L.M. Lockhart - "England" #1

Core #9 6190-6200

Rec. 10'
Shale, similar to above, medium-dark brown to brownish grey, platy to locally wafer parting, floods of large forams (7), local common Dentalina to nearly 1/2" long, scattered large fish scales and remains, rare sandy streaks showing 4" dips.

Gore #10 6200-6202

Rec. 1' Shale, same,

6202-7091

Drilled interval, core gap.

Core #11 7091-7096

Rec. Frags.
Fragments Sand, light grey, scattered medium, friable, very silty, scattered biotite, poor porosity and permerbility, no petroleum shows.

Core #12 7096-7106

Rec. 9'
Sand, medium to light grey, firmly friable to hard, fine grained,
fair sorting, local scattered medium and rare coarse grains, silty,
massive, fairly poor sorting, sub-angular grains, quartzose, scattered
credulated biotite, rare pyrite, fairly low porosity and permeability,
no petroleum shows.

Core #13 7106-7116

Sand, medium grey, fine with scattered medium grained, very silty, difficultly friable to firm-friable, massive with local interbeds of siltstone, dark grey, biscuit parting, to 5° poor dips, common forams, hard, poor porosity and permeability, no odor, stain or cut.

Core #14 7116-7124 8:

Rec. 8'
Sand, as above.

Core #15 7124-7129 5'

Rec. 5' Sand, same.

Core #16 7129-7134

51

Rec, 5!

Sand, same, becoming friable, kaolinitic, very poor porosity and permeability.

Core #17 7134-7139 6'

Rec. 6' Sand, same.

Core #18 7139-7144 6'

Rec. 6 Sand, same, friable to hard, local very carbonaceous streaks with fairly good 10° dips, no shows.

Core #19 7144-7150

Rec. 6'
Sand, same, with local interbeds to l' of siltstone, as above, fair 5° dips, no shows.

7230-7240

and arenaceous forams.

```
ore #20
  7150-7155
                Missing.
  Core #21
  7155-7160
                Rec. 51
        51.
                Sand, same, no siltstone, no shows.
  Core #22
  7160-7165
               Rec. 31
      31
               Ditto.
  Core #23
  7165-7170
               Kec. 31
      3'
               Ditto.
  Core #24
  7170-7175
               Rec. 5
      50
               Ditto.
  Core #25
  7175-7180
               Rec. 231
      21
               Ditto, becoming slightly coarser grained and cleaner, fairly poor
               porosity and permeability.
 Core #26
 7180-7185
               Rec. 51
      51
               Sand, same as cores above - Core #26 (7180-7185)
 Gore #27
 7185-7195
              Rec. 10
     101
              Sand, same, with rare interbeds of very hard carbonaceous siltstone,
              dirty dark brown to black, fracture surfaces show 80% of surface =
              carbonaceous fragments to 3/8" rounded and to 12" elongate fragments
              with matrix of sandy silt, cemented, massive, scattered to locally
              abundant micro-micaceous, Sand = very low porosity and permeability,
 Core #28
 7195-7205
              Rec. 10'
    101
              Sand, as in above cores, rare streaks of siltstone, dark grey, massive,
              dipping 6-8°; becoming very kaolinitic and altered biotite, very poor
             porosity am permeability, no shows.
 Core #29
7205-7215
             Rec. 71
    71
             Sand, same, local biscuit parting.
Core #30
7215-7220
             Rec. 61
             Sandstone Shell.
   43.
             Sand, same.
Core #31
7220-30
             Rec. 11'
   11.
             Sand, same with local interbeds and laminations of siltstone, dark
             gray, micro-micaceous, dips very wavy, nearly flat, no shows.
Core #32
```

Sand and Silt interbeds, same, Siltstone locally slows common fish scales

7240-7499 Core gap - drilled.

Core #33

7499-7519 61

Rec. 6

Sand, light grey, medium and fine grained, difficultly friable to local hard, massive, broken, silty, fairly poor sorting, sub-angular grains, scattered biotite and green grains, rare small clot dark brown petroleum residue, fairly tight, no odor, stain or cut.

Cores #34 & #35 - Missing.

Core #36 8995-8997

Rec. Frags.

Fragments Sand, light grey, very fine, very firm, silty, well sorted, fairly tight and siltstone, medium grey.

Gore #37

8997-9002

11

Sand, as last core. 21

Rec. 31

Siltstone, as last core, medium grey, hard, fragmented, rare forams?

Core #38

9002-9007 Rec. Frags.

Fragments 511tstone, same.

Core #39 9007-9787

Missing.

Core #40

9787-9793 Rec. Fragments

Fragments Siltstone, dark grey, very hard, locally very fine sandy, wavy laminations.

cores #41 thru #44 - Missing.

Core #45

9810-9813 31

Laminated Sand, stone light grey, very fine grained, nearly silt, finely laminated with nearly black carbonaceous material, wavy dips give 0° to 5° dips, very hard, very tight, no shows.

Core #46

9813-9816 31

Rec. 3' Laminated Sandstone, same, dips nearly flat to locally nearly 20°, tight.

Core #47

9816-9821 Missing.

Core #48

9821-9827 31

Rec. 31 Siltstone, dark gray, massive with local wavy laminations +4°, very hard to locally crumbly.

Core #49

9827-9830

21 Siltstone, same, laminations are very fine sand, light grey, as in Cores #45 & #46.

51

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Core #50
9830-9836
            Rec. 5'
   51
            Ditto.
Cores #51 & #52
                   Missing
Core #53
9912-9915
            Kec. 1
    1 1
            Sand, light to medium grey, fine with scattered medium, silty, massive,
            local thin beds siltstone as above, tight.
Core 454
            Missing.
Core #55
9920-9925
            Rec. 1'
    11
            Sand, medium grey, fine and scattered medium, massive, difficultly
            friable to hard, very common biotite crenulated, rare white muscovite.
            fairly poor sorting, sub-angular grains, silty, tight, no shows.
Core #56
9925-9930
            Rec. 21
    21
            Sand, same.
Core #57
            Missing.
Core #58
9935-9938
            Rec. 21
    21
            Sand, same.
Core #59
9938-9940
            Rec. 1'
    11
            Sand, same but friable.
Core #60
9940-9946
            Rec. 61
    61
            Sand, same, but very fine grained and fine, firm-friable to hard, locally
            very common crenulated biotite, rare streaks dark brown siltstone, tight.
Core #61
9946-9956
            Rec. 4'
            Siltstone, dark grey, hard, brittle, massive, scattered brown biotite,
    41
            rare streaks light grey sand as above, dips nearly flat.
Core #62
9956-61
            Rec. 3'
   31
            Sand, as above cores with rare streaks siltstone.
Core #63
            Missing.
Core #64
9966-9971
            Rec. 5'
    51
            Sand, same.
Core #65
            Missing.
Core #66
<del>9978-9988</del>
            Rec. 5
```

Sand, similar to above, medium grey, fine with medium grains, difficultly friable to hard, massive with rare wavy nondiagnostic dip, very biotite,

tight, locally somewhat cemented, no shows.

Core #67

9988-9998

1'

Sand, same, one silty streak gives poor 4-8° dip.

Gore #68

9998-10,008 Rec. h'

Siltstone, dark grey, very hard, locally sandy, very gilsonitic locally, rare amber material, locally very wavy streaks of light grey coarse siltstone, dips very poor +8-10° - locally interbedded with sand, medium grey, fine with scattered medium, very firm to hard, somewhat silty, massive, very common biotite, very low perosity and permeability, no petroleum shows.

Core #69
10008-10011 Rec. frags.
Sand and Siltstone, as above.

Core #70 Missing.

Core #71
10020-10025 Rec. 1'
1' Siltstone, medium grey, hard, dense, with rare fragments sand, same as Core #68.

10025-10125 Core gap - drilled.

Core #72 10125-10130 Rec. 3' 3' Sand, as above but hard, nearly tight.

Core #73 10130-10135 Rec. 5' 5' Sand, same.

Core #74

10135-10145 Rec. 3'

Sand, same but locally difficultly friable, interbedded locally with silt, same.

Core #75

10145-10150 Rec. 3'

Sandstone, as above but very hard, cemented, tight, core flashed for 3 seconds, one foot flash.

Core #76 10150-10155 Rec. 3' 3' Sand, same.

Core #77

10155-10165 Rec. 8'

8' Sand, same but not cemented, very poor porosity and permeability with local interbeds of siltstone, dark grey - (see above). 10" flash 4 sec. burn.

Core #78
10165-10175 Rec. 2'
2' Laminated Sand and Silt, same, but tight.

Core #79
10175-10182 Rec. 1\*
Ditto, tight, 25 sec. 2' flash, poor 5° dips.

10253-10258 1'

Core #80 10182-10187 Jand, medium gray, fine grained with scattered medium, fairly poor 31 sorting, sub-angular grains, massive, hard, very common crenulated biotite, rare beds siltstone, dark gray, hard, massive, very fine abundant micro-micaceous, no petroleum shows except good flash. Core #81 10187-10197 Rec. 31 31 Sand, same, with local siltstone streaks, same, good dips = 5°, rare clots siltstone, same, good 15 sec. Flash, no other shows. Core #82 10197-10202 Rec. 3' 31 Sand and Silt, same, no flash, one yellow stain at bottom of core. Cores #83, 84 - Missing. Core #85 10217-10218 Rec. 1' Siltstone, dark grey, very hard, massive, very micro-micaceous, local יו sand grains, good 15 second flash. Core #86 10218-10223 Rec. 451 44 Siltstone, same, no flash. Core #87 10223-10232 Rec. 8 1' Sand, light grey to medium brown where very biotitic, silty, very fine grained, locally approaching silt, hard, massive but locally very wavy, dips average about 10°, hard, difficultly friable, kaolinitic, very poor porosity and permeability. 4 Siltstone, as above cores, local 10° partings. 1. Siltstone, light grey, coarse, approaches very fine sand, kaolinitic, hard to difficultly friable, very biotitic, local scattered pink and green grains, tight, no odor, stain or cut. 21 Siltstone, same as h! above, no flash. Core #88 10232-10242 Rec. 81 81 Interbedded dark grey siltstone and light grey coarse siltstone to very silty sand, very kaolinitic, local dips appear fair, to 8°, locally core is very carbonaceous, locally clotted light and dark gray silt. Bottles containing very fine silty sand, same, at 10234, 10236 and 10240, no odors, 15 sec. flash, no petroleum odor or stain. Core #89 10242-10252 Rec. 51 51 Ditto, as above, one bottle of fine silty sand from 10251, no odor, 25 sec. flash, no petroleum odors or stain. Core #90 10252-10253 Rec. 2' (Pickup ?) 21 Sandstone, light-medium gray, fine grained, comented, massive, very hard, 10 sec. flash. Core #91

Siltstone, dark gray, local carbonaceous, micro-micaceous, hard, massive.

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Core #92
10258-10264
              Rec. 2'
    21
              Sand, with local beds silts one, same as Core #68 (10232-42).
              no flash.
Core #93
10264-10274
              Rec. L'
    14
              Sand, same, flashed.
Core #94
10274-10279
              Rec. 1'
     1.
              Sand, same.
Core #95
10279-10289
             Rec. 5'
      51
              Vitto.
Core #96
10289-10297
              Rec. 1'
      1'
              Ditto.
Core # 97
10297-10302
             Rec. frags.
              Sand, same.
Core #98
             Missing.
Core #99
10307-10309
             Rec. frags.
              Di tto.
Core #100
10309-10317
             hec. 31
      31
             Ditto.
Core #101
10317-10327
             Rec. 6"
     6<sup>n</sup>
             Vitto.
Core #102
10327-10332
             Rec. 1"
     1"
             Nubbins, ditto.
Core #103
10332-10342
             Rec. 31
     31
             Ditto, with rare beds siltstone, same.
Core #104
10342-10352
             Rec. 6
      61
             Sand, ditto, with interbeds of Siltstone, same, light 10 sec. flash.
Core #105
<del>10352-1035</del>7
             Rec. 2'
     21
             Siltstone, with rare beds light greyish silt, 20 sec. flash, bottled
             streak sand at bottom Core #105 in bottle (10357), no odor.
```

**A-1** 

### HOMCO SIDEWALL SAMPLES

(No petroleum shows unless otherwise indicated)

#11	10,045	R. 3" fine gray silty sand, no odor.
#10	10,059	Rec. 3" Ditto
#9	10,064	Rec. 5" fine, silty, medium grey sand, good kerosene odor, no apparent stain.
#8	10,070	Rec. 3" fine silty medium grey sand, no odor.
#7	10,075	Rec. 2gm Ditto.
#6	10,082	Rec. 3" Ditto.
#5	10,088	Rec. 3" Ditto, sand, hard, very tight.
#4	10,096	Rec. 3" Ditto, as above.
#3	10,100	Rec. 22" Sand, fine medium grey, name, no odor.
#2	10,115	Rec. 3" Sand, same.
#1	10,119	Rec. 3" Sand, same.
A-3	10,124	Rec. 5" Sand, same, fair Kerosene odor.
A-2	10,143	Rec. 3" Ditto, faint kerosene to light petroleum odor.

10,177 Rec. 5" Sand, same, faint to doubtful odor.

#### SCHLUMBERGER SIDEWALL SAMPLES

- 2695 Rec. 2" silty clayey Sand, medium green, no petroleum odor.
- 2732 Silty Sand, very fine grained, light-medium green, well sorted, pebbly, firm, very low porosity and permeability, no shows.
- 2737 Ditto, last above.
- 2778 Silty Sand, greenish, mixed with limonitic brown silt.
- 3200 Siltstone, medium grey, firm-friable.
- 3225 Siltstone, medium brown.
- 4304 Sand, light grey, fine grained, scattered rounded coarse, very friable, fair porosity and permeability, silty, no odor.
- 4330 Siltstone, light greenish grey, massive.
- 4508 Medium-dark green glauconite Siltstone, very fine grained.
- 4735 Medium-dark green glauconite Sand, fine-grained.
- 4831 Medium gray Siltstone, friable, very abundant altered biotite.
- 4832 Ditto, as above, but slightly coarser grained.
- 4896 Siltstone, medium grey, friable.
- 5140 Siltstone, light grey, otherwise as above.
- 5165 Ditto very common biotite.
- 5350 Sand, light grey, silty, fine grained, low porosity and permeability, firm-friable.
- 5486 Rec. 2" Silty Sand, light grey, very fine grained, no odor.
- 7050 Rec. 1" Silty Sand, same, no odor.
- 7059 Rec. 1" Ditto.
- 7245 Rec. 1" Ditto.
- 7255 Sample gone
- 7269 Rec. 12" Ditto.
- 7285 Rec. 1" Sand, light grey, very kaolinitic, no odor.
- 7296 Rec. 1" Sand, as last above.
- 7299 Rec. lan Ditto.
- 7303 Rec. in Ditto.

#### DIVISION OF OIL AND GAS

### REPORT ON PROPOSED OPERATIONS

				No. P	552-308
		Coalinga	Calif	October 14	19_52_
Mr. M. H. Fuller			-		
Box 165, Burrel,	C	alif.			
Agent for L. M. LOCKH	IART				
Dear Sir:	. •				
Your	proposal to	abandon	Well N	o. "England" 1	<del>-</del> 31,
Section 31 , T. 145., R. 13E., M.D.	_B. & M.,		Field,	Fresno	County,
dated August 9, 19 52, received Octob					
Present conditions as shown by the	records and the	nronosal are as fol	lows.		
RECORDS IN ADDITION TO OR AT V 5-1/2" cem. 10,038', four 3/				NOTICE:	
THE NOTICE STATES:  "The present condition of the l. Complete casing record 14" 47.54# New Smls. 5-1/2" 20# N-80 & 1 Total Depth 10,357'  2. Last produced. No Pro 3. Condition of hole:  Hole is plugged with Hole is plugged with the cements off all of casing at 10,017'. The 5-1/2" casing is with the top of the The top of the casin welded over top of All unplugged portion	SJ Casing 7# J-55 Ne  duction  cement fr cement fr the zone to in place cellar. g is pluggsame.	om bottom @ : om 10,169' up ested and the as cemented, ed with 10'	cmtd. w/20 10,357 up to approx W.S.O. ho with the l	to 10,169'. ximately 9880 oles in the 5 oradenhead ab	038'.  ', which -1/2"  out level plate
PROPOSAL: "The proposed work is as fol We propose to abandon wel		condition."			
DECISION: THE PROPOSAL IS APPROVED.					
Bond No. 965734 GGP:ef					

R. D. BUSH

State Oil and Gas Supervisor

L Deputy

Orig: Company, L.A. cc: Mr M H Fuller

#### DIVISION OF OIL AND GAS

ULT 0 - 1952

ALIGUST

COMMINA, CAMPAGA

#### Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin; one copy only

LOS ANGELES

DIVISION OF OIL AND GAS	
COALINGA	Calif.
	29, 3230, 3231 and 3232, Ch. 93, Stat. 1939, notice is hereby given
Sec. 31 , T. 14 S. , R. 13 E. , M.D.	B. & M. PANOCHE CREEK AREA Field,
FRESNO	County, commencing work on the 10 TH day
of APRIL	
The present condition of the well is as follows:	
1. Complete casing record.	
SAX AT 609'.	I CASING CMTD. TO SURFACE W/100
5-1/2" ZO# N-80 & 17# J-55 AT 10,038'.	NEW SMIS. CSG. CMTD. W/200 SAX
TOTAL DEPTH 10, 357	
2. Last produced	No PRODUCTION  Net oil Gravity Cut
	Net oil Gravity Cut
The proposed work is as follows:	. •
3. Condition of hole;	
HOLE IS PLUGGED WITH GE	MENT FROM BOTTOM @ 10,357 UP TO 10,169
	EMENT FROM 10,169' UP TO APPROXIMATELY
HOLES IN THE 5-1/2" CASI	
THE 5-12" CASING IS IN	PLACE AS CEMENTED, WITH THE BRADENHI

THE TOP OF THE CASING IS PLUGGED WITH 10' OF GEMENT, AND A STEEL PLATE WELDED OVER TOP OF SAME.

ALL UNPLUGGED PORTIONS OF HOLE ARE FILLED WITH HEAVY DRILLING FLUID.

4. WE PROPOSE TO ABANDON WELL IN ABOVE CONDITION.

ABOUT LEVEL WITH THE TOP OF THE CELLAR.

.M. LOCKHART to io file of days. AND GAS IN DISTRICT WHERE WEL

### DIVISION OF OIL AND GAS

### REPORT ON PROPOSED OPERATIONS

			No	o. P 5-9188
	Coalinga,	Calif	April 12,	19_ <b>51</b>
Mr. M. H. Fuller	pand at the			
Box 165, Burrel, Ca	lif.			
Agent for L. M. LOCKHAPT				
Dear Sir:			i P	
Your supplementary proposal to	drill	Well	No."England	" 1-31
Section 31, T. 14S., R.13E., M.D.B. & M.,	AND DESCRIPTION OF THE	Field,	Fresno	County
dated April 10,19 51, received April 12,19 51,	has been examined	d in conjunct	ion with records	filed in this office
THE NOTICE STATES:  "The new conditions are as follows:  Hole plugged from bottom 10,357'  5-1/2" casing cemented at 10,038' w  W.S.O. test made through 4 - 3/8" h  Oil and gas shows between 10,038' a  drilling fluid and circulating w  Results inconclusive."	oith 300 sax coles shot a and 10,169 t	coment. t 10,017: wore test	ad by displ	
PROPOSAL:  "We now propose  To plug with cement from 10,169" up  of zone tested and cover the W.S.  To leave the 5-1/2" casing in place  2' below top of cellar and with a  To leave hole full of drilling mud  To suspend well in above condition.	O. holes in as cemented steel plate from 10,000	the 5-1/d, with the bolted	2" <b>casin</b> g a e Bradenhea over top of	nt 10,017°. ad about
DECISION: THE PROPOSAL IS APPROVED.				

Bond No. 965734

GGP:ef

Orig: Company, L.A.

cc: Mr. M. H. Fuller

R. D. BUSH

State Oil and Gas Supervisor

\_Deputy

28489 6-50 19M SPO

## DIVISION OF OIL AND GAS

## Supplementary Notice

•	Los Angeles	Calif	April 10 19 51
DIVISION OF OIL AND GAS	•		
Coalinga,	Calif.		·
Our notice to you dated	March 28	, <sub>19</sub> <b>51</b>	, stating our intention to
Cement 5-1/2" cas	ing in well No.	"England# 1-3	<u> </u>
Sec. 31 , T. 14S , R. 13E	,B. & M	Panoche Ar	ea XXXX
Fresno	County, mus	t be amended on ac	count of changed or recently
discovered conditions.			
The new conditions are as follows:			
		•	
drilling fluid and circ Results inconclusive.	culating with fresh wat	er, and by so	rabbing.
We now propose			
To plug with cement from to of zone tested and cover	10,169' up to 10,000', r the W.S.O. holes in	which will co	ement off all sing at 10,017.
To leave the 5-1/2" casi. 2' below top of cellar	ng in place as cemente and with a steel plate	d, with the Bi	radenhead about top of same.
To leave hole full of dri	lling mud from 19,000'	to surface.	
To suspend well in above	condition.		MICAIVED.
·			APR 12 1957
ACCOUNTS OF SEE OF SEE			
5300 g	Self or a self-self or a self-self or a self-self-self-self-self-self-self-self-	L. M. LOCK	
		Tame of Operat	
97666 9-48 8M SPO	By	Finns.	man and

#### DIVISION OF OIL AND GAS

# Report on Test of Water Shut-off (FORMATION TESTER)

No. T 5-5435

	Coalinga.	Calif	April	9,	19 51
Mr. M. H. Fuller					
Box 165, Burrel, Calif				••	
Agent for L. M. LOCKHART			•		
Dear Sir:					
Your well No. "England" 1-31					
Field, in	Fresno		County, was t	ested for wa	ter shut-off
on April 3 , 19 51. Mr. G.	. W. Hunter		, desigi	nated by the	supervisor,
was present as prescribed in Secs. 3222 and 3223, Ch. 93	3, Stat. 1939; there	were also presen	t M. H.	uller, S	Supt.
	an	d Clenn II.	Earl, Eng	rineer.	
Shut-off data: 5-1/2 in 12 & 20 lb. casing wa on Narch 30 , 19 51 in	is cemented			at_10	),038 ft.
on March 30 , 1951 in	9-7/8	in. hole with	300	sacks	of cement
Casing record of well: 14" cem. 609'; 5-1/2'	0	f which	5	acks was lef	t in casing.
Casing record of well: 14" cam. 609'; 5-1/2"	' cem. 10,038	', four 3/	3" holes ]	10,017	1.5.0.
	(an man /	9.0 APA			
S.O. DOW					
Present depth 10,357 ft. Bridged with cement fro					
A pressure of 1000 lb. was applied to the inside of	casing for 15	min. without	loss after clear	ning out to!	10,030 <sub>ft.</sub>
A Johnston	tester was run	nto the hole on.	2-3/8	in.Ætill×p	ipe-tubing,
with 1395 ft. of water-mudicushion, and	packer set at	147ft.	with tailpiece	to9964	<u> </u>
Tester valve, within. bean, was opene	d at 7:29 a.m	le .		an	d remained
open forhr. andmin. During the	his interval <u>viio</u> r	e was a li	tht stead	brow to	or 16
minutes and then a light heading blo	er ent roll wo	mainder or	the test.	<del>}</del>	
THE IMPRICATOR WAS PROPERT AT THE WEI	LI, FROM 11:00	a.m. TO 1	2:15 p.m.	AND MR.	HARL.

- 1. The 5-1/2" casing was shot-perforated at 10,017' for the test of shut-off.
- 2. All except 1620' of the tubing was removed and 1395' of water cushion and 1479' of gas cut drilling fluid was recovered.

#### THE INSPECTOR NOTED:

- 1. When the remainder of the tubing was removed, 1620° of very gassy drilling fluid was found above the tester valve. The gassy drilling fluid would occasionally unload, blowing 60 or 70 feet into the air.
- 2. The pressure recorder charts indicated that the tester valve was open during the entire test.

THE SHUT-OFF AT 10,017' IS APPROVED.

GWH: of

Orig: Company, L.A. cc: Mr. M. H. Fuller

Deputy

### DIVISION OF OIL AND GAS

## REPORT ON PROPOSED OPERATIONS

			No. P.	5-9110
	Coalinga,	Calif	March 30,	19 <b>51</b>
Mr. M. H. Fuller				
Box 165, Burrel,	Calif.			
Agent for L. M. LOCKHART				
DEAR SIR:				
Your supplementary proposal to	drill	Well	No."England" 1	-31
Your supplementary proposal to Section 31 , T.14S., R. 13E., M.D.B. & M.,	<b>00</b> gp 64 pa <b>0</b> 10	Field,	Fresno	County,
dated March 28, 1951, received March 28, 1951				
Present conditions as shown by the records and to THE NOTICE STATES:  "The new conditions are as follows: 14" cem. 609'. T.D. 10,357', pluge 9-7/8" hole to 10,033'. 7-5/8" " to 10,357'.  Encountered oil and gas shows below	ged with dement		' to 10,163'.	
PROPOSAL: "We now propose  1. Cement 5-1/2" casing at 10,033"  2. Notify Division to Witness shut  3. Test for production."				nd 10,163'.
DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT a test of the 5-1/2" water shut-off above the cementing point, prior to	through four	shot pe	rforations imm	ediately

Bond No. 965734 CHC: ef Orig: Company, L.A. cc: Mr. M. H. Fuller

R. D. I	BUSH	
•	State Oil and Gas Supervisor	$\mathcal{A}\mathcal{A}$
*	Le Ki	<i>f</i>
	Bv/ . / . /	Lluce Deput

28489 6-50 19M SPO

MAR 2 (24)

### DIVISION OF OIL AND GAS

# COMMINGA, CAMPANINA.

## Supplementary Notice

		<b>*</b>	Coalinga,	CalifMarc	h 28,	19.51
DIVIS	SION OF OIL AND GAS			•		
	Coalinga	<b>3</b>	Calif.			
	•					
	Our notice to you d	lated Novemb	per 22	, 19_50,	stating our in	tention to
	Drill		well No. "E	ngland" 1-31		
	(Drill, deepen, redrill, aband	on)				
Sec	31 , T. 14 S. , R. 1		В. & М			Field
	Fre	sno	County, mu	st be amended on accoun	nt of changed o	or recently
discov	vered conditions.				J	•
	The new conditions are as foll	OM/a+				
	6091					
	14" cem. 612".	r.D. 10,357',	plugged with	cement 10,357'	to 10,163	· •
	9-7/8" hole to	10,033'.				
	7-5/8" " to	10,357'.				
	Encountered oil	and gas shows	s below 10,000			
	We now propose					
	1. Cement 5-1/2 10,163'.	" casing at 1	.0,033' to tes	t showings betwe	en 10,033'	' and
	2. Notify Divis	ion to witnes	s shut-off tes	st through holes	at 10,015	51.
\	3. Test for pro	duction.				
	•					
	manager of the state of the sta	·				
	Maro Most Service	POTES	State of the state	•		
	The same of the sa	VV				

L. M. LOCKHART

(Name of operator)

By

Lens M. Engineer

17988 11-49 8750 SPO

## DIVISION OF OIL AND GAS

### REPORT ON PROPOSED OPERATIONS

				No. P.5	-9002
	Coalinga,	Cali	. Novemi	oer 24,	19 50
MR. M. H. Fuller					
Box 165, Burrel,	Calif.				
Agent for L. M. LOCKHART					
DEAR SIR:					
Yourproposal to	drill	W	ell No."En	gland" l-	31
Section 31, T. 14S., R. 13E., M.D.B. & M.,					
dated Nov. 22, 19 50, received Nov. 24, 19 5					· -
Present conditions as shown by the records and THE NOTICE STATES:  "Legal description of lease S. E. The well is 660 feet S., and 660 f Elevation of ground above sea leve All depth measurements taken from ground.  We estimate that the first product depth of about 7000 feet."  PROPOSAL:	one-quarter of eet 2. from of 1 406.6 feet. top of Kelly	f Section senter of Bushing,	Sec. 31.	-14/13 s 12.5 fe	
"We propose to use the following st them as herein indicated:  Size of Casing, Weight, L  Inches Per Foot  14 47.54  8-5/8 32  It is understood that if changes i you before cementing or landing of DECISION:	b. Grade Typ Smls. SmlsI	and e -SJ &C-J55	Depth 600'	Landed Cemente Cemente Cemente	or od
THE PROPOSAL IS APPROVED PROVIDED T  1. Water suitable for irrigation  2. Mud fluid of sufficient weight shall be used in drilling, and to the surface at all times, p  3. Adequate blow-out prevention e operation at all times.  4. The 14" casing shall be cement casing from the shoe to the gr  5. THIS DIVISION SHALL BE NOTIFIE (a) Before landing or cementi (b) To witness a test of each	shall be proton and proper of the column and the column and the column are column and casing any casing	consister of mud flanding pull his process cient continues the process of the pro	ey to produid shall ling the wided and ement to the	event blo l be main drill pi d kept re fill back	w-outs tained pe. ady for of this
Bond No. 965734 CHC:ef Orig: Company, L.A. ce: Mr. M. H. Fuller	R. D. BUSH State Oil an	d Gas Super <i>yi</i> s	) O	$\mathcal{O}$ .	• *

28489 6-50 19M SPO

# RECSIVED NOV 2 4 1950

#### DIVISION OF OIL AND GAS

COALINGA, CALIFORNIA

019 00193

#### Notice of Intention to Drill New Well

This notice must be given and surety bond filed before drilling begins

			*** 3.	
		Los Angeles	alif	er 22 50
DIVISION OF OIL AND	GAS			
Coal	inga	O I''		
<u> </u>		Calif.		
In compliance with Sec	ction 3203, Chapter 93,	Statutes of 1939, notice is h	ereby given tha	at it is our intention to
commence the work of drill	ing well No. "Eng	gland" 1-31	, Sec	31 <sub>T.</sub> 14s.
		ceek Area Field,		
Legal description of lease	S. E. one-quarter	c of Section 31-14/13		
Elevation of ground above se	Give location in distance fr 406 a 6	feet E. of Warom Communication corners or other corners of legal sufficient feet.  Kelly Bushing	ibdivision)	
12.5 fe	et above ground.			
We estimate that the first	st productive oil or gas s	and should be encountered at a	depth of about	7000 feet.
We propose to use the f	ollowing strings of casin	g, either cementing or landing	them as herein i	indicated:
Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
14	47.54	SmlsSJ	6001	Coménted
8-5/8	. 32	Smls T&C - J55	70001	Cemented
	1	-		
It is understood that if	changes in this plan bec	ome necessary we are to notify	you before cem	enting or landing casing
Address 824 Wilshi	re Boulevard	L.	M. LOCKHAR	<b>P</b>
	s 17, California	· .	(Name of Operat	cor)
_	Rinity 1588	Ву	m Lo	sethant
	OPY-OF-NOTICE-TO DIVIS	ION OF OIL AND GAS IN DISTRI	CT WHERE WEL	L IS LOCATED

•	Manu	nes	Oross Section	Cherta	Paris /		
					114	1選/	مد» ار
E	H/Sa/se					- Attendanters:	A STATE OF THE PARTY OF THE PAR

Recent to Pliocene			
Mocene?	•		
Focene	Kreyenhagen Domengine		
Eocene and Paleocene	Lodo		
Paleocene	Martinez		
Cretaceous	Moreno	Brown MT.Sd.  Ragged Valley Silt-4  Joaquen Ridges.s.	723
		6380	
	•		