Well Records for Artificial Penetration #16 Cheney Ranch #15X (API No. 1921446)

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES

REPORT OF WELL PLUGGING AND ABANDONMENT

J. W. Covello, Agent CENCAL OIL COMPANY, INC. 1701 Westwind Drive Bakersfield, CA 93301

OG159

Coalinga, California July 20, 1995

A.P.I. No	0;	<u>19-21446</u> , Section <u>29</u> , T. <u>14</u> S, R. <u>13</u> E, M.D.B. & M.,
Chene	y Ran	ch Gas field, Fresno County,
		, 1995 , received <u>May 17, 1995</u> , has been examined
in conjund	ction	with records filed in this office. We have determined that all
of the rec	quiren	ments of this Division have been fulfilled relative to plugging
and aband	onmen	t of the well, removal of well equipment and junk, and the
filing of	well	records.
NOTES:	1	Correft on a selection of the selection
NOIES:	1.	Surface plugging completed on December 29, 1994.
	2.	Site inspection made and approved June 15, 1995.
RH/kt		
cc: Well	File	WILLIAM F. GUERARD, JR. STATE OIL AND GAS SUPERVISOR
		By (for) (for) (RICHARD F. CURTIN
`		DEPUTY SUPERVISOR

Your report of plugging and abandonment of well _____ "Cheney Ranch" 15X _____,

DIVISION OF OIL, GAS & GEOTHERMAL RESO ES CHECK LIST - RECORDS RECEIVED AND WELL STATUS

API No	019~21446	Sec. 29	т 14	"CHENEY RANCH" 15X S., R. 13 E., M.D.B.&M.
Field	CHENEY RANCH GAS	Country	1. <u>14</u>	S., R. 13 E., M.D.B.&M.
la const	·	county	FRESI	NO
	Oil			
1	Gas 6	_ Water disposal		
Gag_Or	pen to Oil Zone	_ Waterflood	PRODUCTION TO STATE OF THE PARTY OF THE PART	Completed
l cap of		_ Steamflood		Recompleted
	Drilling	Fire Flood	COUNTY COUNTY AND	Idle
	Dry Hole			Abandoned
1	Gas Storage Observation			Abandoned BLM(c
i Wat	terflood Source	CO ₂ Injection		- k /
Wat		LPG Injection		POOL <u>Abd</u>
1. Summar	ENGINEER'S CHECK L. Y History Core &	IST		CLERICAL CHECK LIST
	11 7		1. Form O	GD121_/
	cic Logs	and the second s	2. Form O	GD159(Final Letter)
3 Operat	or's Name		3. Form O	GD159(Final Letter-BLM)
4. Signat	ure		4. Form O	GD150B (Release of Bond)
5 Well D	esignation	TANK TANK	5. P.I 🗸	
5. Well b			6. EDP	
7 Floret	ion			
. Elevac	S			
9. NUCLCE	8			
o Casina	ports		<i>I</i>	Abandon Pool/Type/
o. Casing	Record		1	·· ····
· Plugs_		have a har gift had be continued to	1	Date/_/
2. Suriac	e Inspection	RH 6/15/95	L	
3. Product	tion		10 50	(Conversions Only)
4. Direct	ional Survey		16-20	/
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•	Electric Logs			0
			(- 12	1-29-94
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			L - U	2-15-95
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		3 1		
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OT APPROVE	:D			
Reason:	See Control of the Co			
		R	ELEASE BONI	no Bond
			Date Eligi	
			urra	(Use date last needed records were rece
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		M	AP AND MAP	BOOK X W5-2 RH 4/16/95
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RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

	Cencal Drilling, INC.	Cheney Ranch Gas	33 ₃₀
	Operator Cen Cal Drilling, Inc.	Field Chaney Ranch	County Program
	Acii Attattoff 1 TX	Sec. 67 T 148	R 100 MD R & M
	A.P.I. No. 019-21446 Name C. Date May 8. 19.95	LOTAS W. Case T	(President, Secretary or Agent)
	Date, 19.92	(reason submitting report)	(President, Secretary or Agent)
			as W. Case
	7010 W. Cerini Riverdale, CA 9	3656	
	(Address)		(Telephone Number)
Date	History must be complete in all detail. Use this form to repor or altering the casing, plugging, or abandonment with the date of cement used, top and bottom of plugs, perforation details, s		
11-3-94	M.I.R.U.		
11-4-94	Rigged up to lay rods down. Uns	seated pump. Closed we	ell in.
11-5-94	Laid 234 3/4" rods down in singl		
11-10-94	M.I.R.U.		
11-11-94	Removed xmas tree. Installed B. tbg. stopped @ 7265'. Rigged up	O.P. Pulled & laid d circ. down could not	own tbg. R.I.H. get below 7300'
11-12-94	Rigged up foam air to cement zon Tag top of cement 6920' witnesse mud down tbg. witness & approved 166 jts. 2 3/8" tbg. Rigged up & displaced 16 sacks of class G	d by D.O.G. approved. by D.O.G. Rigged up foam air w/ tbg. tail	Pumped 80 bbls. & laid down @ 1595! pumped

11-17-94 Cond. mud lowered the tagged top of cement @ 1385' witness by D.O.G. & approved. Mud checked & approved by D.O.G. changed well over to mud w/tail @ 1385' laid the down in singles Removed B.O.P. tore out & loaded up equipment. Laid rig flown.

12-19-94 Mixed & poured cement & filled casing & surface pipe 30' - 5' cut off csg. 6' below surface. Used 8 sacks of cement.

RECEIVED

MAY 1.7 NOT DIVISION OF ON & GAS

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES (209)-935-2941

REPORT ON OPERATIONS

Kurt E.	Sickles	
CENCAL	DRILLING,	INC
P O BOX		
Bakersf	ield CA	93309

Coalinga, California January 3, 1995

Your	operations at well	"Cheney R	anch" 15X	APT No	019-214	16
~~~.	<u> </u>	3 E. M.D.R	_ λ·M .	Changy Danch	C	
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	TILLIDI ICK	. represer	うてみてしひら へそ	the concernia		
from_	1010 to 1015 . There	were also	nresent C	che supervis	or, was j	present
			presence _c	TOTAS Case W/	C. Case C	<u>o.                                    </u>

Present condition of well: 9 5/8" cem. 770'; 4 1/2" cem. 7300', cp at 7257' & 1927', perf. 7226'-7216' & 7192'-7172' WSO. TD. 7300'; plugged w/cem. 7300'-6920', 1585'-1385' & 30'-5'.

The operations were performed for the purpose of abandonment.

DECISION: THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

DEFICIENCIES: None

CONTRACTOR: C. Case Co.

GP/kt

WILLIAM F. GUERARD, JR.

STATE OIL AND GMS SUF RVISOR

BY

RICHARD F. CURTIN

Deputy Supervisor

UK	
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### DIVISION OF OIL AND GAS Cementing/Plugging Memo

1	
5	

WILLIAM TO	∤/Ms≀	2000	123/15c	ch re	Drese	ntative -	f AL			On	12/29/94	7		
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unk ole :	(in hofluid	ole): (bai	led to) at_		Witn	nessed by_			',',		' pulled' pulled	fr		•
unk ole :	(in hofluid	ole): (bai	led to) at	Bb1   80	Witn	Displa					' pulled	fr.	Eng	r.
unk ole :	(in hofluid	ole): (bai	led to) at_	Bb1   80	Witn	Displa	iced				Fill	fr.	Eng	edt
unk (ole :	(in hoffluid  fluid  fl	ole): (bai	led to) at	Bb1   80	Witn	Displa	ced				' pulled	fr.	Eng	edt
unk (ole :	(in hoffluid  fluid  fl	ole): (bai	Date   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12   17/12	86 25	With	Displa	iced				Fill	fr.	Eng	edt
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01e : 68 68 69	(in ho fluid	ole): (bai	Date   1/12   1/12   1/12   1/2   Placing	Bb1   80   25	With	Displa	900 500				rulled Fill 1505 Stc	fr.	Eng	edt
unk ole :	(in ho fluid	(bai	Date  Wiz  Viz 94 Ro  Placing  MO & Depth	Bb1   85   25	With	Displating 6	900 500	Po	oured	Top Wi	Fill /Sob Stc	fr.	Eng	ede
wink ole :	(in he fluid in Hefe for 130 cm./cf	ole): (bai	Date   1/12   1/12   1/12   1/2   Placing	Bbi 86 25 25 Pl by Pl T	Witn ls. bols bols Close	Displate the Case Case Witnessee Engr.	sced 950 SDO	Po	Wt/s	Top Wi	Fill /505 Stc tnessed Date &	fr	Eng Hau	ide
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Contratori C. Cose Company

Definiencies: None

#### KESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES

	]	No. P	<u>593-419</u>
	Field	Code	134
	Area	Code	00
New	Pool	Code_	abd
orq	Pool	Code_	05

## PERMIT TO CONDUCT WELL OPERATIONS

Kurt E. Sickles CENCAL DRILLING,	
P O BOX 11006	INC
Bakersfield CA	93309

Coalinga, California December 10, 1993

Your proposal to abandon
A.P.I. NO. 010 21446 — Quandon Woll Hole
Chenev Ranch
Fresno County, dated 12/6/93, received 12/8/93 has been examined in conjunction with records filed in this office.
in conjunction with records filed in this office.
THE DODOGAT TO THE

## THE PROPOSAL IS APPROVED.

- Adequate blowout prevention equipment shall be installed and maintained 1. in operating condition at all times.
- All portions of the well not plugged with cement are filled with inert . 2. mud fluid having a minimum density of 72 lbs./cu. ft. and minimum gelshear strength (10 min.) of 20 lbs./100 sq. ft. 3.
- The surface plug is placed from at least 30' below surface.
- THIS DIVISION SHALL BE NOTIFIED: 4.
  - TO WITNESS the location and hardness of the cement plug from 7300' `a.
  - TO WITNESS the mudding of the well. b.
  - TO WITNESS the location and hardness of the cement plug from 1600' c.
  - TO WITNESS the location and hardness of the surface plug after the d. casing has been cut 5' below ground.
  - When the well site has been restored to a condition that will pass e.

Blanket Bond GWM/jp

Steffens of WILLIAM F. GUERARD, JR.

Engineer Glenn Muggelberg

Phone (209) 935-2941

STATE OIL AND SUPERVISOR

Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing

Records for work done under this permit are due within 60 days after the work has been

## STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

## Notice of Intention to Abandon Well

	FOR DIVISION USE ONLY
DIVISION OF OIL AND GAS	CARDS BOND FORMS OGD111 OGD121
In compliance with Section 3229, Division 3, Public Resour	rces Code, notice is hereby given that it is our intention
to abandon well - TENEY Manch 15	ADT 25 10 2 2 5 3 11 11
Sec. 29, T. 145, R.13E, MD B. & M., Chavey	lowch Field Fresup
commencing work on Vanuary, 19 9	County.
The present condition of the well is:	Additional data for dry hole (show depths):
1. Total depth 7300	5. Oil or gas shows
2. Complete casing record, including plugs and perforations (present hole)	
VEE HUMED DECALL	6. Stratigraphic markers
3. Last produced (Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D) or	7 Formation and are an all a
4. Last injected (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)	<ul><li>7. Formation and age at total depth</li><li>8. Base of fresh water sands//</li></ul>
9. Is this a critical well according to the definition on the	reverse side of this form? $\square$ $\bowtie$
1) Clo to 7300' Equilize Plug 4.	7300-7070
1) c/o to 7300' Equiliere Plug #. 2) Mad up hole w/70 m/cs mud Equ 3) Plug # 3 25'- Surface - cut	ilize Plug#2 1600'-1500'
3) Plug # 3 25'- Surface - cut o weld on metal cap.	ff esq e 5'below ground
	RECEIVED
	DEC 0 8 1993
	DIVISION OF OIL & GAS COALINGA
It is understood that if changes in this plan become nec	
Address 1900 EAS(on Ur 2)35A	rweal Orla Inc.
Bakers Field Ca 93309	Kur T Pick Lo
Telephone Number (805) 323 6005	Les Lich Vane) 12/1/93
(Area Code) (Number) OG108 /8/87/DWRR/5M)	(Signature) (Date)

RENOUNCES AGENCY OF CALIFORNIA

## L. VISION OF OIL AND G., 3

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PENFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

holes per foot 7215 - 7226 tabing gun. Reshot RCEIVED 1/2" holes per foot /216 - 7226 with casing gun. two

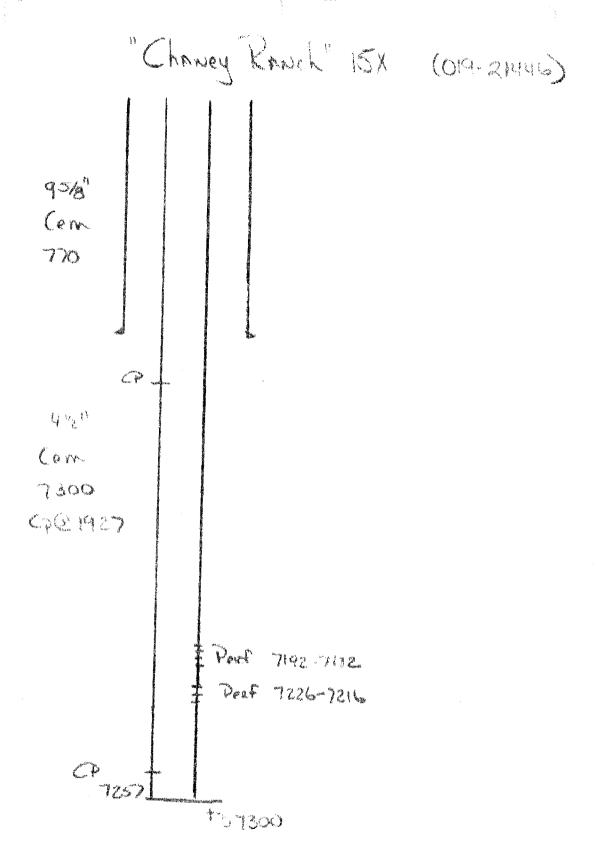
Shot two .26" holes per foot 7272 - 7292.

UEC 0 8 1993

as the well directionally drilled? No If yes, show coordinates at total depth.

ectrical log depths 7288 

100 (1-76-0581-5M) ATTACH ONE COPY OF EACH LOG AND SURVEY



DEC 0 8 1993

DIVISION OF OIL & GAS

**DEPARTMENT OF CONSERVATION** DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

466 NORTH FIFTH STREET COALINGA, CALIFORNIA 93210-1793 (209) 935-2941 TELEFAX (209) 935-5154

April 3, 1995

Kurt E. Sickles, Agent CENCAL DRILLING, INC. P.O. Box 11006 Bakersfield, CA 93309

Subject: Past Due Records

The California Division of Oil, Gas & Geothermal Resources sent three Notice of Records Due all dated March 1, 1995, (copies enclosed) pertaining to wells "Silver Creek" 14X, (019-20712), "Cheney Ranch" 15X, (019-21446) and "Silver Creek" 27X, (019-20726) all in Sec. 29, T. 14 S., R. 13 E., in the Cheney Ranch field, that you have not filed with the Division as required by Division 3 of the Public Resources Code.

Failure to file these records is a violation of law punishable by a substantial civil penalty as provided by Section 3235.5 of the Public Resources Code.

Unless all records listed in the enclosed Notice of Records Due are received in this office by May 1, 1995, the Division will begin proceedings for the imposition of appropriate civil penalties. The state of the s

Sincerely

(FOR) Richard F. Curtin District Deputy

hie Icamilo

RFC/kt

Enclosure

## RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES

## NOTICE OF RECORDS DUE

March 1, 1995

P593-419

Kurt E. Sickles, Agent CENCAL DRILLING, INC. P.O. Box 11006 Bakersfield, CA 93309

Dear Mr. Sickles:

In accordance with Division 3 of the Public Resources Code of California, the following record is due, covering the <u>Abandonment Notice dated December 6, 1993</u>, of your well <u>"Cheney Ranch" 15X</u>, API <u>019-21446</u>, <u>Cheney Ranch Field</u>, <u>Fresno County. Section <u>29</u>, T. <u>14</u> S., R. <u>13</u> E., M.D.B. & M.</u>

**RECORDS:** Records are due with 60 days after completion, suspension, or abandonment of any well, or upon completion of additional work in any well. **Records shall be submitted in duplicate.** Division forms must be signed in the spaces provided.

OIL AND GAS OPERATION

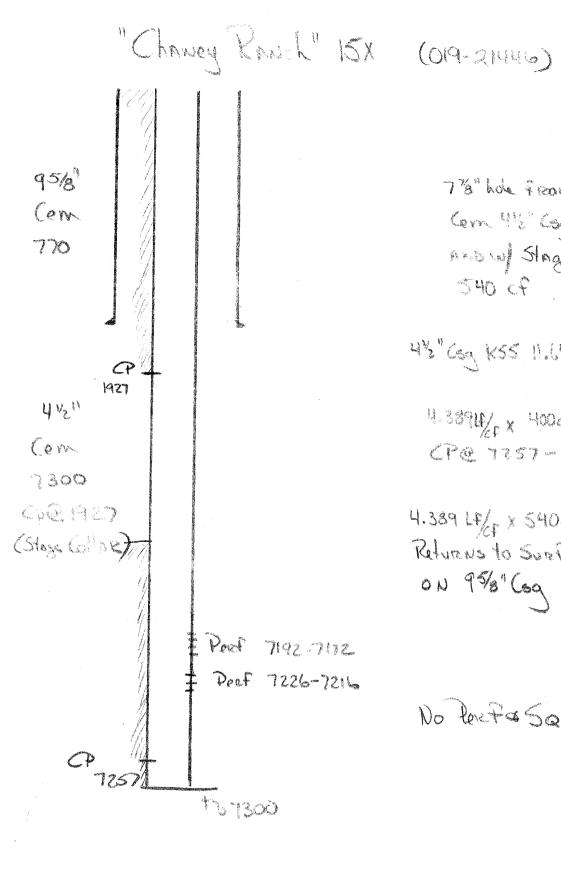
XXX History (Form OG 103)

The surface plug for this well was Witnessed and Approved on December 29, 1994.

Rov J. Haude

ENERGY & MINERAL RESOURCE ENGINEER (209) 935-2941

OG170



7 %" hole from 770-7300 Gm 41/2" Cog w/400 cf @ 7257 AND W/ Singe Collne @ 1927 w/ 540 cf

45" Cog KSS 11.6" 10 778" We 4 1389 L/CE

4.3894/ X HODEF = 1755 CF CP@ 7257-1755 = 5501 7/2 1/2 1/2 1/2

4.389 LF/G x 540cf = 2370 LF Returns to Sunfine use we Will History ON 95/8" (sq

No Pereta Saz Necessary

*

Cheney Ranch Gas Sec Twn Rge Well

Operator Cencal Drilling, Inc.

Type Status

29 14S 13E "Cheney Ranch" 15X

DG IDLE-5

API # 019-21446

* Field

Location Fr W/4 cor 530 S 530 E

Elevation 375' KB

BFW 1600

Lambert N/S Lambert E/W Grid

Map status IDLE-GAS

Casing history 9-5/8" cem 770'; 4-1/2" cem 7300', cp 1927', 7216' & 7192'-7172'WSO. TD 7300'.

F3 to locate API #, F2 to exit, Esc to undo

DIVISION OF OIL AND GAS CHECK LIST - RECORDS RECEIVED AND WELL STATUS Cental Wrilling Well No. 12X API No. 019-21466 Sec. 298, T. 145, R. 136, B.&M. Field_ RECORDS RECEIVED DATE STATUS Well Summary (Form OG100)____ STATUS History (Form OG103)____ Producing - Oil ___ Water Disposal Core Record (Form OG101)____ Idle - Oil ___ Water Flood Directional Survey____ Abandoned - Oil ____ Steam Flood Sidewall Samples____ Drilling - Idle ___ Fire Flood Abandoned - Dry Hole____Air Injection Date final records received Producing - Gas Gas Injection Electric logs:_____ Idle - Gas ___ CO₂ Injection Abandoned - Gas ____LPG Injection Gas-Open to Oil Zone__ Observation Water Flood Source DATE RECOMPLETED REMARKS ENGINEER'S CHECK LIST CLERICAL CHECK LIST Summary, History, & Location change___(F-OGD165)_ Core record (dupl.)____ 2. Electric Log____ 2. Elevation change___(F-OGD165)____ Operator's Name 3. Form OGD121 3. 4. Form OG159 (Final Letter)____ Signature____ Agran in 5. Form OGD150b (Release of Bond)[423 Well Designation____ 5. 6. Duplicate logs to archives____ 6. Location 10 -7. Notice of Records due(F-OGD170)__ Elevation____ ģ: "" Notices____ "T" Reports W43V 9. Casing Record____ Plugs____ 12. Surface Inspection_____ 13. Production____ E Well on Prod. Dir. Sur. Lilia High Laigh Liting A sere was said from Lange of find kole

RECORDS NOT APPROVED Reason:	RECORDS APPROVED 12-23-82 Ef
	RELEASE BOND
	Date Eligible
	(Use date last needed records were received.)
	MAP AND MAP BOOK W5-2 FF 12-23-82

8.

10. 11.

### CHECK LIST - RECORDS RECEIVED AND WELL STATUS

API No. Sec.	, T., R.,	B • &M •
WORK PERFORMED	STATUS	DATE
DrillRedrillDeepen	Producing	gane ang an af sa again an Araba Tao, pan sa again ang an again again again again again again again again agai
PlugAlter Casing	Recompleted Producing	· · · · · · · · · · · · · · · · · · ·
Water FloodWater Disposal		ON-NASTITIVETEN IN SET AND THE CONTRACT OF THE
Abandon	Water Disposal	
Other	Abandoned	
interaction by the South Control of the Control of the South Control of the Contr	Other_	
	MAP AND BOOK Engin	eer
RECORDS FILED AND DATE Clerk	RECORDS & REQUIREMENTS CHECK	ED Engineer_
Summary		-
Log and Core		
History		
E-log		
Directional Survey		
Other		
(Check records for signature and	Surface Inspection	
correct name of operator or well,	Data Needed_	
section, township, range, and field.)	Request Records	OGD170
	Correct records	CONTRACTOR OF THE PROPERTY OF
Location Notice states	(Specify)	The state of the s
	- CARDS	
	BOND_	ANTO A 14th hou fifth shift for the Country of Chancel Beautimes (Queens) are QUeen for
	Hold Reason	ena <del>tiite ka</del> ka ja
Elevation Notice states	Release Date Eligible	OGD150
Notice states	End premium year	
	Release requested	(Check One)
	Bond superseded	(Gneck One)
Production Reports	Well abandoned	
1 Toddecton Report Co	The state of the s	- Characteristics
	FINAL LETTER and	OG159
(If production reports not received, make notation and inform Senior Stenographer when received.)	File cleared	OGD121

#### RESOURCES AGENCY OF CALIFORNIA

## L.VISION OF OIL AND GAS

版 MAR 1 9 1982

## WELL SUMMARY REPORT

DIVISION OF OIL & GAS

					UBMIT IN E				COALINGA			
Opera	ator CenCal	Drilling 1	inc., Open	itor,	Well No	15-x	39. Che.	ney Rinch	API No. 019-2	1466,		
Sec	29, T. 14S,	R. 13E, M	D_B. & M.,	Chen	ey Rancl	1 Gra	5	Field,Fre	esno	County.		
Locat	ion 530' S	S + 530 E f	rom W½ CC	R Sec	29 ጥገ <i>ለ</i> ፡	3D13E						
Locat	1011	(Give surfac	e location from	property or	section corner	, or street	center line a	nd/or lambert coordin	ates)			
	· · · · · · · · · · · · · · · · · · ·						Elevation	of ground abov	e sea level37	5 feet.		
All de	pth measurem	nents taken fro	m top of	Kell	y Bushir	ıg		which is 11	feet abo	ove ground.		
correc	computance wi trecord of th	e present cond	Division 3 of lition of the	the Put well and	dic Kesou I all work	rces Co done t	ode, the in hereon, so	tormation given far as can be d	herewith is a co	mplete and		
record	ls. 12/15	Ki						100	LIR.			
Date	1 11	<u>D1</u>	_			Si	igned	allin	T Jall	· · · · · · · · · · · · · · · · · · ·		
	(Engineer or G		_				Title	Ogento	or or other states			
								<del>-(}</del>				
	·	7-12-81						CICAL MARKERS		ЕРТН		
Comp	leted drilling	11-19-81				BAS	E MIOCE	NE	3503			
Total	depth (1st hol	le) <u>7300</u> (2	nd)	_(3rd)		TOP	Eocene	sand	4875			
Preser	nt effective dep	pth_7300				TOP Cretaceous 5820						
Junk_	None	·				TOP	Cheney	Ranch Sand	6930			
•						<del></del>			Annual design of the control of			
Comm	enced produc	ing(Date)	_Flowing/ (Cross out	gas lift/p unnecessary	oumping words)				th Moreno-Cre			
			Clean bbl. per	Oil day	Gravity Clean Oil	Per Ce includin	ent Water g emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressur		
	Initia	al production	3BI	)	60		.10	80	650	850		
	Production	after 30 days	3BI	)	60		.10	80	650	850		
				CASING :	Record (I	Present	Hole)					
Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	Grade a	and Type of C	Casing	New or Second Ha	Size of Hole and Drilled	Numbers of Sacks or Cubic Feet of Cement	Depth of Cementing if through perforations		
9 5/8	770	0		ř.	RLT&C			12 ½	203			
				and S	T&C							
4 ½	7300	0	11.6	K-55			New	7 7/8	400	7257		
							Stag	ge Collar	540	1927		
		(Size ton bot	tom perfora	Pe ted inter	RFORATED	Casino	cing of ne	rforation and me	thad \	The second secon		
T				,	<del></del>			TOTALION AND THE	edioa.)	The state of the s		
Two .2		per foot										
		per foot ples per foo	<del></del>		n casın	g gun.	•					
				• •		·				· · · · · · · · · · · · · · · · · · ·		
		ly drilled?N	○ If yes	, show co	ordinates	at total	depth					
Electrical l	og depths	/288		Other	surveys				-			

#### RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION



#### DIVISION OF OIL AND GAS

#### History of Oil or Gas Well

#### DIVISION OF OIL & GAS COALINGA

Operator Central Drilling Inc.	Field Cheney R	anch County Fresno
Well 15 A	Sec.	T R R&M
VII. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ame	Title Agent
Date Nov. 1st. , 19 81	(Person submitting report)	(President, Secretary or Agent)
	Signatur	e
(Address)		(Tabuk an Namban)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

7/12/81

SPUD well and drill to 770.

7/13/81

Circulate hole clean. Run and cement 770 9 5/8 K-55 casing. (773 on hook). B&W guide shoe and insert valve.

#### Cement Detail

206 Class G cmt 1:1 pearlite w 2% Gel and 3% CacL2. Displaced top rubber plug w 304 cuft of mud. Plug bumped with 1200 P.S.I. Float held ok. 100 cuft to surface. C.I.P 4:50 am.

Tested blind rams 2" & 3" times at 1200' P.S.I. Tested Hydril and pipe rams to 1200 P.S.I.

BOPE tested and approved by D.O.G. Drilled out and drilled 7 7/8 hole to 1372.

7/14/81 t.o 7/22/81

Drilled 7 7/8 hole from 1372 to 7290.

Install Jacobs mud logging unit at 4875, and logged well to 7290. Had gas shows on mud log from 6835-6872 and from 7146 to 7260. Circulated hole clean at 7290, wipe hole from 7290 to 6570. Circulate for elog.

7/23/81

Ran Welex Induction log. Clean out to bottom, drill to 7300. (circulate gas cut mud at 4400. Mud wt was cut from 77# to 70#). While circulating at 7300 mud was cut 77# to 76# by gas.

7/24/81

Ran 186 joints  $4\frac{1}{2}$ " to 55 11.6# 8rd seamless new casing (7317.28' over all length) with shoe, float collar, and stage collar. Set guide shoe at 7300. Float collar at 7258, stage collar at 1927'. Used 23 centralizers on bottom 4 joints of string. Stage collar at 1927'. Placed 50 cuft mud wash and 25 cuft water ahead of 400 cuft. 1:1 class G. & Howcolite poz mixed with 4% gel and .75% friction reducer followed by 280 cu.ft class G neat premixed with .75% friction reducer. Displaced top rubber plug with 645 cu.ft KCL water. Bumped plug. Bled back 6 cu.ft. CIP 4:15 pm.

2nd stage cement. Dropped bomb and opened stage collar with 160 P.S.I. at 4:30 p.m. Circulated 15 minutes. Placed 50 cuft of mud wash

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION



#### DIVISION OF OIL AND GAS

#### History of Oil or Gas Well

#### DIVISION OF OIL & GAS COALINGA

Operator	CenCal Drilling Inc.	Field Cheney Ranch C	ounty
Well	15-x	, Sec. 29, T 145.	, R13E, B. & M.
A.P.I. No	o. 019-21466 Name C. F. (Pe	Freen Ti	tle Agent (President, Secretary or Agent)
		Signature	
	(Address)		(Telephone Number)
History or alterin of cemen	y must be complete in all detail. Use this form to report all oping the casing, plugging, or abandonment with the dates thereon tused, top and bottom of plugs, perforation details, sidetraction details, sidetraction details.	erations during drilling and testing of. Include such items as hole size, ked junk, bailing tests and initial	of the well or during redrilling formation test details, amounts production data.
follow rubbe:	of 540 cuft 1:1 class G and Howcolite wed by 100 cuft Class G neat premixed r with 75 cuft 3% KCL water. Had ceme d stage collar w 2500 PSI upper stage	with 3% CaCL ₂ . Displent returns ok. Pumpe	aced top d plug and
Lande	d casing. Installed well head. Moved	off drilling rig.	
inter	elex combination Neutron collar record val 5150' to 7300'. Rigged up product g to 7171'.	er and cement <b>b</b> ond log ion hoist and ran two	. Recorded 3/8"
two .	elex combination gun and collar locate 26" holes per foot. Rigged up swab an ot come in.	r. Shot interval 7210 d swabbed well to 5000	6-7226 with O'. Well
Idle		•	
Circul	d up circulating pump. Circulated wellated rotary mud from bottom. Pulled Two ½" holes per foot from 7216 - 722	tubing. Reshot well w	with casing
from t	oo am well had 180 PSI on casing and 50 from well head and well flowed a dribb top of christmas tree. Flow estimated ed swabbing. Swabbed fluid level to 50 pressure 100 PSI.	le of water with raind to be 1 gallon every	oow colors 2 minutes
Swabbe	ed swabbing 8:00 am. Casing pressure ed well until 12 pm, fluid level 6000' ated 100 MCF/day rate. Shut in well 6	. Well started flowing	3700 . ng gas
Casing	g pressure 800 PSI. Tubing pressure 60	00 PSI. Well shut in.	•

Date

7/21/81 cont.

8/13/81

8/14/81

8/15/81 to 8/17/81 8/17/81

8/18/81

8/19/81

8/20/81

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION





#### History of Oil or Gas Well

DIVISION OF OIL & GAS COALINGA

	Operator	CenCal Drillin	ng Inc.	Field	Cheney I	Ranch C	ounty F	resno	
	Well	15-x			Sec 29	7 14S	Dunty		D 0. 14
	A.P.I. No	019-21466	Name	C. F. Gree	en , boc.	rari	Ac Ac	rent	D. & IVI
	Date	CenCal Drillin 15-x 019-21466 Nov. 1st	, 19.81.	(Person su	ibmitting report)		(Presid	dent, Secretary	or Agent)
					Signatu	ıre			••••••
	••••••••		(Address)				(Tc	elephone Numb	 er)
Date	History m or altering th of cement us	ust be complete in all de ne casing, plugging, or a ned, top and bottom of p	etail. Use this form to bandonment with th plugs, perforation de	report all operations of the control	ons during drilli clude such iten unk, bailing te	ing and testing as as hole size, sts and initial	of the wel formation production	ll or during test details data.	redrilling , amounts
11/12/81	perforation of the perforation o	pressure 300, c ting gun. Shot gauge jumped 10 ing pressure.	interval 717 O PSI when gu	72-7192 with in went off.	two .26" There w	holes per as no rea	r foot	_	
11/17/81	Tubing 9	950, casing 136	O. Shut in.						

Tubing 1220, casing 1620.

#### 11/18/81

11/19/81

Tubing 1320, casing 1750.

	PAGE 21050 CNS10140	% :: A ::				Anne en espe	X	MATER E							
elegative of	<b>33</b>						SOURCE	MATE				Consequence in	سائدين بور		
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To be seed	ES		AND A		COMP. ET CW. DATE: 12/80 (19)	CRET	STATES STATES	8	8	8	8	8	8	8	
	2 E	19214	MAK TILIN	5 ?3		NAME: U.	E TE	01/62	28/20	03/82	G4/82	05/82	53/90	07/82	
	PROCESSED 08/82 01STRICT:	API WELL NO.: C1921446 (4)	OPERATOR NAME AND AL	SFIE	8 8 8 8 8 8 8	POOL NA									10
	\$  ST	2-2	SEN CEN	Š.	885	8	ZZ	90	2	8	8	8	2	8	×

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### DIVISION OF OIL AND GAS

## Report on Operations

Charles F. Green, Agent CENCAL DRILLING, INC. P.O. Box 1664 Bakersfield, CA 93302	Coelinge March 30,	Calif.
Your operations at well "Cheney Ranch" 15X  M.D., B.& M. Cheney Ranch Gas Fie on March 30, 1982 E.R. Fleming  present from to There	eld, in <u>fresno</u> , represent e were also present	County, were witnessed reviewed attained the supervisor, was
Present condition of well: 9 5/8" cem. 770"; 7216 & 7192-7172 W.S.O. T.D. 7300".	45" cem. 7300; c.p. 1927	7, perf. 7226-
The operations were performed for the purpose of	evaluating the 4½" wat	er shut-off by
reviewing production data.  DECISION: THE 4½" WATER SHUT-OFF AT 717		•

ERF/dw

cc: Company, Bakersfield

By Deputy Supervisor

RICHARD F. CURTIN

OG109 (10-78-GSRI-15M)

### RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

No. TS82-46

#### DIVISION OF OIL AND GAS

#### Report on Operations

Jensey Brilling	Letter Gertrette	- r'		Calif.
Your operations at well, B.& M, on present from	- E. D 15 C	, 14 G/G		, Sec, T, R, _County, were witnessed live of the supervisor, was
Present condition of well:				one pertinate
The operations were performed	for the purpose of	galmak ing	the 4/2" w	
DECISION: THE 4/2	WATER SAN	T. 814 67	7779173	AFFERDUT D.

cc. Bakusfuld

M.G. MIFFERD

State Oil and Gas Supervisor

By

Peputy Supervisor

FOR) Richard F. Curtin

OG109 (10-78-GSRI-15M)

No. P <u>581-386</u>

## REPORT ON PROPOSED OPERATIONS

134
(field code)

00
(area code)

05
(new pool code)

05
(old pool code)

Charles F. Green, Agent
CENCAL DRILLING, INC., OPR.
P. O. Box 1664
Bakersfield, CA 93302

Coalinga, (old pool code)

November 10, 1981

Your supplementary proposal to drill well "Cheney Ranch" 15X

A.P.I. No. 019-21446 , Section 29 , T. 14S , R. 13E , M.D. B. & M.,

Cheney Ranch field, area, U. Cretaceous pool,

Fresno County, dated 11/4/81 , received 11/6/81 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THIS DIVISION SHALL BE NOTIFIED TO WITNESS a production test demonstrating water shut-off within 30 days of completion.

NOTE: When it becomes necessary to contact this Division concerning the witnessing of operations, please call (209) 935-2941.

Individual Bond #504 0806, dated December 22, 1980
VEV/bcm
cc: Company, Bakersfield

M. G. MEFFERD, State Oil and Gae Supervisor

Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

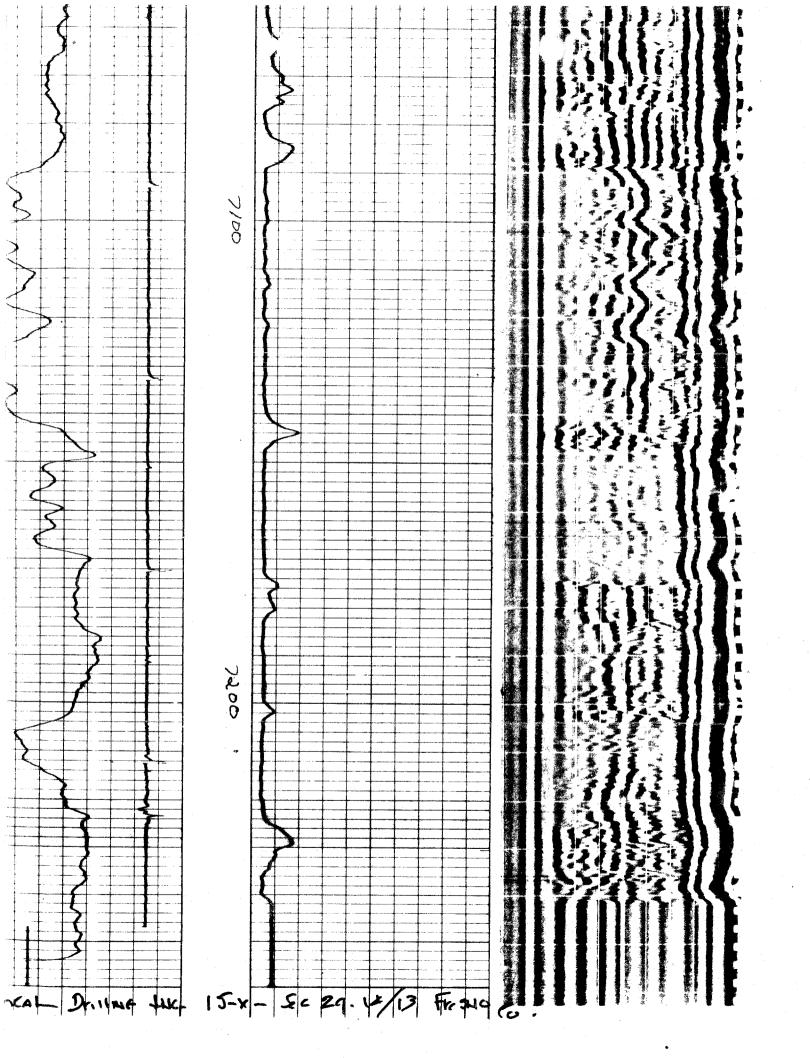
Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

## RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

#### DIVISION OF OIL AND GAS

#### SUPPLEMENTARY NOTICE

	FOR DIVISION USE ONLY
	BOND FORMS EDP WELL OGD114 OGD121 FILE
DIVISION OF OIL AND GAS	
Coalin Calif.	#3/4 Cyolo 13/20/20
A notice to you dated Dec 28 1	, 1980, stating the intention to
Drill (Heney Ranch 15-X (Drill, rework/abandon) (Well name	, API No. OK - 2144 C
Sec. 29 , T. 145 , R. 13E , MD B. & M., _	Cherry Ranch Field,
Fres no County, show	uld be amended because of changed conditions.
The present condition of the well is as follows:	
Total depth 7300	
Complete casing record including plugs and perforations:	
95/8 Casmy consenied at 7	•
4/2 Casing remented . T300-(	Top of rement 5200)
AND remented 1927 to Surface. A	
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We now propose	m rerive m
to perforate she casing from	R EGLIVE III
7145-7155 And	Ш _{NOV 61981} Ш
(14) - (13) And	THE OIL & CAS
Titz - Tigz	DIVISION OF OIL & GAS COALINGA
(Coment Bond Log ATTACK)	,d)
It is understood that if changes in this plan become nece	essary we are to notify you immediately.
	Concal Drilling Juc
Address 7.6.804 936  Bakers Juld (41.7 93302 Type (State)  Telephone Number 805-325-6141  By	of Organization John Venture  (Corporation, Partnership, Individual, etc.)  (Name) (Date)
Telephone Number 2703 - 525 - 6(4)  By	(Name) (Date)
	C & Ecolor



No. P <u>581-298</u>

## REPORT ON PROPOSED OPERATIONS

134
(field code)
00
(area code)

Charles F. Green, Agent
CENCAL DRILLING, INC.
P. O. Box 1664
Bakersfield, CA 93302

Coalinga, (old pool code)
August 7, 1981

THE NOTICE IS CORRECTED AS PER TELCOM C. F. GREEN/V. E. VAN MATRE ON 8-7-81 TO STATE:

Run Cement Bond Log Shoot for W.S.O. at 6710'. Perforate interval 7216'-7226' for production.

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS a test of the 4-1/2" water shut-off at 6710'.

#### NOTES:

- 1. When it becomes necessary to contact this Division concerning the witnessing of operations, please call (209) 935-2941.
- 2. In lieu of a test of the 4-1/2" water shut-off, the Division will accept a cement bond log showing good bonding above the objective zone and a production test of that zone within 30 days of completion.

Individual Bond #504 0806, dated 12/22/80
VEV/bcm
cc: Company, Bakersfield

M. G. MEFFERD, State Oil and Gas Supervisor

Richard F. Curtin

Deputy Supervisor

for

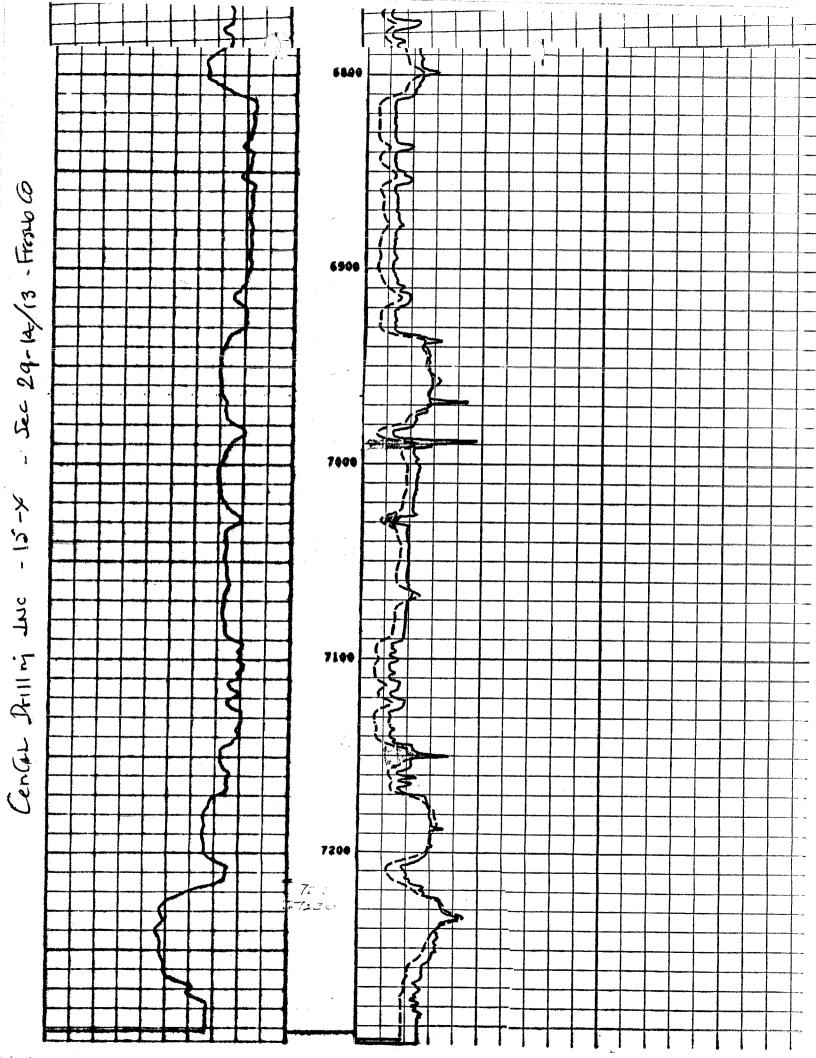
A copy of this report and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

## RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

## SUPPLEMENTARY NOTICE

	FOR DIVISION USE ONLY
DIVISION OF OIL AND GAS  COALING Calif.	BOND FORMS EDP WELL OGD1/14 OGD1/21 FILE  504 0806 daled 12/23/87
A notice to you dated July 21. 1981  Run 4 (cmint 4/2" (a5m)  (Drill, rework, abandon)  Sec. 29, T. 145, R. 13E, MD B. & M., CL	API No. Olg. 24446  Concy Ranch 605  Field,
The present condition of the well is as follows:  Total depth 7290  Complete casing record including plugs and perforations:	amended because of changed conditions.  DECEIVE  AUG 3 1981
95/8 Commind at 770 4/2 Commind at 7290 n/.	DIVISION OF OIL & GAS COALINGA
1900 AUD Commented &1 Surface	
Run (Ement Bond 109  SHOOT FOR WSO DI 69  Perforate mierral 7216 - 7  C Elog + Mud 109 Submitted	7926
It is understood that if changes in this plan become necessary we Address P.O. Box 936  Bakerslield, (olif 93302  Type of Organ	



## RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

## SUPPLEMENTARY NOTICE

		FOR D	IVISION USE ON	NLY
		BOND	FORMS OGD114 OGD121	EDP WELL FILE
DIVISION OF OIL AND GAS	<u> </u>	Frd -	000114 000121	
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A notice to you dated Sec 28- 1980.				
A notice to you dated.		, 19	, stating the i	intention to
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$\Omega \rightarrow Q \wedge q / q$	Checessary Wi	e are to notify	- [	
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(City) (State) (Zip)	Type of Organ	nization Join	11 Venture	
Telephone Number 855 375 6(4)	By C.F.E	(Corpor	ration, Partnership, Ind	ividual, etc.)
	(Nan	ne) r l/h/	(1Da	nte)
	Signature	~ X //NO	<b>4</b>	

## MEMORIANDUM OF TELEPHONE OR PERSONAL CONVERSATION

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A telephone conversation was held, concerning above			
CONSULTANT for above operator on Jul-			7
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(Signed)	U. Z. Y	La Malie	annamento de digues despuesados de contratos
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## MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION (Proposed Well Operations)

Operator	Well No.						
Field personal A telephone conversation was held, concern							
for above operator							
Details of the conversation were as follow							
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Test of W.S.O. to be witnessed by D.O.G.	at	В	y opera	tor at	er i Notherschaftlichte der der Statistische Geberater der der der der der der der der der d	madakangkarasa-tud galapa-kalapapa-kalapapa-kalabarat da 12.752	
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## RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

## Report on Operations

Mr. Charles F. Green, Agent  CENCAL DRILLING, INC.  P.O. Box 1664  Bakersfield, Calif 93302	Coalinga July 14,	1981	Calif.
Your operations at well "Cheney Ranch" 15X  M.D., B.& M. Cheney Ranch Gas Fiel on 7/13/81 C. E. Parli present from 1711 to 1840 There Gary Drilling. Present condition of well: 9-5/8" cem. 770'.	d, in, rep	County, were resentative of the super Azlin, Foreman for cemented).	ervisor, was
The operations were performed for the purpose of installation.  DECISION: THE BLOWOUT PREVENTION EQUIPMENTION			ment and
CEP/bcm cc: Company, Same Add.			
DEFICIENCIES TO BE CORRECTED None			
DEFICIENCIES CORRECTED None CONTRACTOR: Gary Drilling			

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Other	Mudb	ogget	WILL			CAPPERIOR .	The second secon	and the second s	Patrician de actions par			Louise	negrocomen and community columns.	TANK OF STREET,	AV WASHINGTON

DEFICIENCIES - TO BE CORRECTED NON-

DEFICIENCIES - CORRECTED NON &

CONTRACTOR Gary Drilling

#### RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

No. P 580-503

R	EPOR	ON	PROPOSED	<b>OPERATIONS</b>

134 (field code) 00 (area code)

Mr. Charles F. Green, Agent

CENCAL DRILLING, INC., OPERATOR

P.O. Box 1664

Bakersfield, Calif

Coalinga, California
December 30, 1980

Your proposal to drill well "Cheney Ranch" 15X

A.P.I. No. 019-21446, Section 29, T. 14S, R. 13E, M.D. B. & M.,
Cheney Ranch Gas field, area, U. Cretaceous pool, filed in this office.

### DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

- 1. Sufficient cement shall be pumped back of the 8 5/8" casing to fill to the surface.
- 2. Mud fluid of sufficient weight and proper consistency to prevent blowouts shall be used in drilling, and the column of mud fluid shall be maintained to the surface at all times, particularly while pulling the drill pipe.
- 3. Blowout prevention equipment conforming to Division of Oil and Gas Class III B 3M requirements is installed on the 8 5/8" casing and maintained ready for use at all times. A copy of these requirements is enclosed.
- 4. Blowout-prevention practice drills are conducted at least weekly and recorded in the log book.
- 5. THIS DIVISION SHALL BE NOTIFIED TO WITNESS a pressure test of the blowout-prevention equipment prior to drilling out the shoe of the 8 5/8" casing.

#### NOTES:

- 1. When it becomes necessary to contact this Division concerning the witnessing of operations, please call (209) 935-2941.
- 2. A SUPPLEMENTARY NOTICE SHALL BE FILED prior to running any (additional) casing or placing any cement plugs in the hole. At that time additional requirements will be outlined for the protection of oil, gas, or fresh water encountered, either by lifting cement or by multiple-stage cementing.
- 3. RECORDS FOR ALL WORK DONE UNDER THIS APPROVAL ARE DUE WITHIN 60 DAYS AFTER COMPLETION OF THE WORK.

Individual Bond #504 0806 dated 12/22/80 VEV/jp

cc: Company, Bakersfield

M. G. MEFFERD, State Oil and Gas Supervisor

Acting - Deputy Superviso

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

#### DIVISION OF OIL AND GAS Notice of Intention to Drill New Well

	NEG. DEC.	INFORMATION	DOCUMENTALS	<b></b>	FOR DIVISION	USE ONLY	<u> </u>
CLASS	S.C.H. NO	-	DOCUMENT NOT REQUIRED SY LOCAL		MAP OOK CARDS	BOND	FORMS
CLAGO	3.C.n. NO	S.C.H. NO	BY LOCAL LURISDICTION	***************************************		and.	114 12
	See	Reverse Side		12/30/80 149	<u> </u>	<b>7</b>	/ /
		ection 3203, Divis			de, notice is he	reby given	
		illing wellCh				/ Annion	od by District V
Sec. 29, T.1	45, R13	<b>E</b> , <u>MD</u> B. & M	(., <u>Cheney</u>	Ranch	_Field, <b>F</b> :	resno	Cou
Legal descripti	ion of mine	ral-right lease, co	nsisting of 1	60ac	res, is as follows		
		Sc	outhwest O	ne Quarte	er Section	(Attach map	p or plat to scal
Do mineral and	d surface lea	ases coincide? Ye. , and map or plat	s_xx No	If answ	er is no, attach	legal descr	ription of bo
				ežių po po valonia			_
docation of we	311	_feet_South_(Direction)	along section (Cross	<b>Přopekty</b> line out one)	e and <u>5301</u>	feet	East (Direction)
at right angles	to said line	from the West	Quarter	CO	rner of soction	XXXXXX.	(Direction)
					(Gross	out one)	
		rding to the defi				Yes 🗌	No
		reet	om d	nates (from si	urrace location)	at total de	epth:
7]		(Direct	tion)			(]	Direction)
Lievation of gro	ound above	sea level	<u>5</u> feet.				Direction)
		en from top of K	elly Bushi	ing	that is $1$	1 (00)	
		en from top of $\frac{\mathbf{K}}{D\epsilon}$		inic, or went pasing	1 <u>4</u> /	1feet a	
ll depth measu		en from top of $\frac{\mathbf{K}}{D\epsilon}$	elly Bushi	inic, or went pasing	AM CEMENTING	CALCU	above groun
ll depth measu size of casing inches api	weight	en from top of K	elly Bushi prick Floor, Rotary Ta DSED CASIN	G PROGR	CEMENTING DEPTHS Shoe to	CALCU BEHIN	above groun
all depth measu size of casing inches api	weight	en from top of Kon (De PROPO)  GRADE AND TYPE  Grade D	elly Bushi erick Floor, Rotary To OSED CASIN	FOTTOM 750	CEMENTING DEPTHS Shoe to Surface	CALCU BEHIN	nbove groun
size of casing inches api  3 5/8"  Balance of	weight 28# casing	en from top of Kon (De PROPO)  GRADE AND TYPE  Grade D  program co	elly Bushi errick Floor, Rotary Ta DSED CASIN TOP 0	FOR PROGRATION TO THE PROGRATI	CEMENTING DEPTHS Shoe to Surface	CALCU BEHIN	nbove groun
size of casing inches API  8 5/8"  8alance of	weight 28# casing be advi	en from top of Kon (De PROPO)  GRADE AND TYPE  Grade D	elly Bushi erick Floor, Rotary Tr DSED CASIN  TOP  0  ontingent  running	7501 on disco	CEMENTING DEPTHS Shoe to Surface Very at pro-	CALCU BEHIN 400 oductio	nbove groun
size of casing inches api  3 5/8"  Balance of to other ded zone(s)	weight 28# casing be advi	en from top of Kon (De PROPO)  GRADE AND TYPE  Grade D  Toprogram con sed before drilling program is proposed to program is proposed to program is proposed to program is proposed before the program is proposed to program is proposed to proposed t	elly Bushi erick Floor, Rotary Tr DSED CASIN  TOP  O  ontingent running co eferred and may be 250 approx	PROGRATION  7501  on disconsasing.  pe submitted in l	CEMENTING DEPTHS Shoe to Surface Very at profile of the above profile of	GALCU BEHIN 400 oductio	above groun  ILATED FILL  IND CASING  OCU Ft.  on sand.
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size of casing inches Api  3 5/8"  3 alance of casing of casing inches Api  3 to casing inches Api  4 to casing inches Api  5 /8"  6 to casing inches Api  6 to casing inches Api  7 to casing inches Api  8 to casing inches Api  9 to casing inches Api  1 to casing inches	weight 28# casing be advi (A complete d	en from top of Kon (De PROPO)  GRADE AND TYPE  Grade D  Toprogram con sed before drilling program is proposed to program is proposed to program is proposed to program is proposed before the program is proposed to program is proposed to proposed t	elly Bushi erick Floor, Rotary Ta DSED CASIN  TOP  O  ontingent  running concepted and may be a sepected pressure of the plan become	TG PROGR  BOTTOM  7501  on discordance submitted in learning.	CEMENTING DEPTHS Shoe to Surface Very at pro-	GALCU BEHIN 400 oductic ogram.) otal depth.	above groun  ILATED FILL  IND CASING  OU Ft.  On sand.  7400  ately.
size of Casing inches ap!  3 5/8"  3 alance of casing of	weight 28# casing be advi (A complete d ) More	en from top of Kon (De PROPO)  GRADE AND TYPE  Grade D  F program con sed before drilling program is program i	elly Bushi erick Floor, Rotary Ta DSED CASIN  TOP  O  ontingent  running of eferred and may be espected pressure) s plan become  Typ	TG PROGR  BOTTOM  7501  on discoverasing.  De submitted in Interest we be of, Organization	CEMENTING DEPTHS Shoe to Surface Very at pro- lieu of the above pro- Estimated to are to notify yo (Corporation, Partner	GALCU BEHIN 400 oductic ogram.) otal depth.	above groun  ILATED FILL  IND CASING  OU Ft.  On sand.  7400  ately.
size of casing inches api  3 5/8"  3 alance of casing inches api  3 to complete the completion of completion of casing inches are of Operator CENCAL DR	weight 28# casing be advi (A complete d More	en from top of Koron (De PROPO)  GRADE AND TYPE  Grade D  program consed before drilling program is program is program is program is program is proposed by the program is proposed by the program is proposed by the proposed	elly Bushi erick Floor, Rotary Ta DSED CASIN  TOP  O  ontingent  running of eferred and may be espected pressure) s plan become  Typ	TG PROGR  BOTTOM  7501  on discoverage submitted in leading.  Description of the control of the	CEMENTING DEPTHS Shoe to Surface Very at pro- lieu of the above pro- Estimated to are to notify yo (Corporation, Partner	GALCU BEHIN 400 oductic ogram.) otal depth.	above groun  ILATED FILL  IND CASING  OU Ft.  On sand.  7400  ately.
SIZE OF CASING INCHES AP!  3 5/8"  3 alance of O.O.G. to other ded zone(s) of completion.  It is under the completion of the completion of Operator	weight 28# casing be advi (A complete d ) More rstood that	en from top of Kon (De PROPO)  GRADE AND TYPE  Grade D  program consed before consed before consens 72 (Name, depth, and if changes in this changes in this coperation.	elly Bushi erick Floor, Rotary Tr DSED CASIN  TOP  O Dontingent  running cr eferred and may be come a spected pressure) splan become  Typ  ATOR  City	TG PROGR  BOTTOM  7501  on discoverage submitted in leading.  Description of the control of the	CEMENTING DEPTHS Shoe to Surface Very at profile of the above profile are to notify you (Corporation, Partner enture)	GALCU BEHIN 400 oductic ogram.) otal depth.	Tated fill of Casing  Cu Ft.  On sand.  7400  ately.

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice or supply the following information:

Lead Agency:	\$ 2x 3 4 4 2
Contact Person:	76.
Address:	•
	••
Phone: ( )	•
FOR DIVISION USE ONLY	
District review of environmental document (if applicable)? Yes No	
Remarks:	

#### CRITICAL WELL

As defined in the California Administrative Code, Title 14, Section 1720(a), "Critical well" means a well within:

(1) 300 feet of the following:

(A) Any building intended for human occupancy that is not necessary to the operation of the well; or

(B) Any airport runway. (2) 100 feet of the following:

(A) Any dedicated public street, highway, or nearest rail of an operating railway that is in general use:

Any navigable body of water or watercourse perennially covered by water;

Any public recreational facility such as a golf course, amusement park, picnic ground, campground, or any other area of periodic high-density population; or

(D) Any officially recognized wildlife preserve.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for

	18		17		16
	E.A. BENDER Silver Creek 578 7500 7379	T 145	RI3E		
E.A. BENDER	E.A. BEN Cheney F	DER Ranch 73X 7496		•	21
E.A. BENDER Silver Creek  G4  IO,206	19 E.A. Chen	BENDER ey Ronch 	20		<u></u> .
	78	246			
	\ \dots 3	A. BENDER hency Rench			. 28
25 ·	30	Silver Cr	2/8		
	E. S	4	E.A. BENDER Silver Creek	RICI Robi <del>ol</del> 877	HFIELD erte 2
36 LM LOCKHAI Soul <del>Q</del>	31 _{E.M. LOC} England 10357	KHART d	32	E.	33 L BENDER
					A BENDER ver Creek 18 8698

# Well Records for Artificial Penetration #17 Cheney Ranch #15X (API No. 1921924)

# RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

### REPORT OF WELL ABANDONMENT

		***	Coalinga	, California
		*****	January 29, 19	86
Jeff Greening, Agent				
AMERICAN HUNTER EXPLORATION	N. LTD.			
306 Pescado Circle				
Rancho Murieta, CA 95683	******************			
			· / · ·	
			• .	
				en e
Vour raport of shandanment of well	1	11 1		
Your report of abandonment of wel	1	L (Na	me and number)	
A.P.I. No. 019-21924	Section 36	71° 1/₁S.	D 19E M	) 10 U M
THE SEC AND DESCRIPTION THE RESEARCH AND THE RESEARCH AND THE RESEARCH	******************************	field,	Fresno	County.
dated July 5, 1984	received	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	uly 13, 1984	has been
examined in conjunction with rec	coras illea in th	as office, a	and we have determ	ined that all of
the requirements of this Division	have haan fulfill	od		
address of this Division	nave been tuttitt	eu.		
GWM/bcm				
cc: Conservation				
Company, Canada				

٠.	M.G.	MEFFERD,	State	Oil	& Ga	s Sup	ervi	sor
		State Oil and, Gg	s Superison					
Ву	sich	ardf	u	lu	1			
		Deputy Sur	pervisor					
	Rich	ard F. Cu	rtin					

Company American Hunter	Vell No Qalaga	
API No. 019-21924 Sec. 36,	T. 14 , R. 12	_,B.&M
CountyField		
RECORDS RECEIVED DATE	CO COS A TOS Y CO	
	STATUS	STATUS
ell Summary (Form OG100)	Producing - Oil	_ Water Disposal .
ore Record (Form OG101)		Waterflood .
irectional Survey		_ Steamflood
irectional Surveyidewall Samples	Drilling - Idle	Fire Flood
ther	Abandoned - Dry Hole	Air Injection
ate final records received	Producing - Gas  Idle - Gas	
ectric logs:		<ul><li>CO2 Injection</li><li>LPG Injection</li></ul>
	Gas-Open to Oil Zone_	
	Waterflood Source	ా ా ా ా కా
	DATE	"well Yes□ 1
	RECOMPLETED	
	REMARKS	
ENGINEER'S CHECK LIST	CLERICAL CHE	CK LIST
Summary, History, &	1. Location change	(F-0GD165)
Core record (dupl.)	2. Elevation change	(F-0GD165)
Electric Log	2. Elevation change3. Form OGD121	1/29/86
Operator's Name	4. Form OG159 (Final	Letter) 1/29/8
Signature	5. Form OGD150b (Rele	ase of Bond)
	6. Duplicate logs to	archives
Location	<ol><li>Notice of Records</li></ol>	due(F-OGD170)
	8. EDP (F-OGD42A-1, 2	
187746 V		
Casing Record	Ablicance Ray	
Plugs	Hish Res Dipmeter . V	
Surface Inspection 11-1-84 TSB 4-7-85 47	Dills A Elec Prop /	
Production	ith Den-composed, 11	
E Well on Prod. Dir. Sur	ath ven-comprise,	E & Committee of the Co
	Cyberlook 1 2 7	
	Dillsel	
	Borehole com/sonie IV	
	ricrolos	. 1
	Parehole com Konin IV S	1 + 2
	microlos Sorable com/sonia IV s andlos	
	A. 10.000 A. 100.00	
	Sidewail Sample Los!	
<b>A</b>	and Games Runs V	
med state aspies	Dil 2+5 4	Gee Att-ched
CORDS NOT APPROVED	RECORDS APPROVED 6 L	Bar.
Reason:	/	the state of the s
meds some the succoic uliley TIB	RELEASE BOND/	
roads Districts 1005	Date Eligible	
	(Use date last needed	and the second s
	received.) MAP AND MAP BOOK 💠 🗸	3-8 11-1600
	83-1021	

API No. Sec.	, T, R, B.&M.
WORK PERFORMED	STATUS
Drill Redrill Deepen	Producing "E" well Yes No
Plug Alter Casing	Recompleted Producing
Waterflood Water Disposal	Waterflood
Abandon	Water Disposal
Other	
	$Other \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
	MAP AND BOOK Engineer_
RECORDS FILED AND DATE Clerk	RECORDS & REQUIREMENTS CHECKED Engineer_
Summary	
Log and Core	CMARKET TO AND
History	
E-log	
Directional Survey	
Other	
(Check records for signature and	Surface Inspection
correct name of operator or well,	Data Needed
section, township, range, and field.)	Request Records OGD170
Location Notice states	Correct records OGD165
notice states	(Specify) / (OGD42A-1, 2)
	CARDO
	D OND
	77 - 7 - 3 - 75
Elevation Notice states	
	End premium year
	Release requested
	- Particular Particular Account Confession C
Production Reports	Well abandoned
	Environmental Inspection Engineer
(If production reports not received,	FINAL LETTER OG159
make notation and inform Senior Stenographer when received.)	and File clearedOGD121

## RECEIVED

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

JUL 13 1984 No. 019-21924

# WELL SUMMARY REPORT DIVISION OF OIL & GAS

The state of the same of the s	MERICAN	HUNTER E	XPLOI	ATION LT	D.		Well	SOUZA #1						
Field		1860 4157 allica diser	Qay.			- TOTAL MANAGEMENT AND	County	Fresno		and the second second second	Sec. <b>36</b>	T.   145	R. 12E	B.&M. M.D.
٠.	31630	ce location from East alon North at	g sec	cion line	3			or California (		es)		ion of gro	und above	.1
Commence	drilling 3-11-04	(date)			tal de (2nd)	epth	3rd)	Depth meas	urement			op of:	8 ft.	-1 ⁻¹ -1-1
Completed 83	drilling (: 3-12-13	,	10,	217°			ora)	Which is	26	fe	et above	ground	•	hing
Commenced		g (date)	WEI	L ABANDON				] 02020310	AL MAR	KEK3		; '	DEPTH	
Flowin Gas lif	g 🔲 l	Oumping	Junk Note			ole - 17 ole - T.		See At	tachme	ent i	<b>†1</b>			
N/	'A							Formation of Lathro		at tota	l depth	i I	t visit sind side of the control of	MEMORIAN TO THE
//////////////////////////////////////		Clean Oil (bbl per day	.)	Gravity Clean Oil		Percent including		Gas		Т	ubing Pre	ssure	Casing F	Dressure
Producti		N/A												18000
Producti After 30 c		N/A									Contraction and the contraction of the contraction		***************************************	
Size of Casing (API)	Top of C	asing Depth o	f Shoe	Weight of Casing	ı	G RECORI Grade and Ty of Casing		New or Second Hand	Size o		or Cul	r of Sacks bic Feet Cement	Depth of ( (if thro perfora	ough tions)
9 5/8"	Surfac	e 170	9 '	36#	K55	, ITEC		New	12 1/	4"	1	cu.ft.	1	slurry d
5 1/2"	Surfac	e 1021	3'	20#	AC-	80, LT&C	3	New	8 3/	4"		cu.ft.		slurr ₎
PERFORAT	ED CASIN	NG (Size, top,	bottom,	perforated inte	rvals,	size and spa	ncing of p	perforation and	method.)					0000000 ESA ++4+3-handrassanananan
Wasal		tachment												
Yes Electrical lo	X	ally drilled? o	It yes	, show coordi	nates	at total de	pth	real Control			and home many and a second	Philipping and a state of the s		
Other survey	See At	tachment (	<del>‡</del> 3		······································									((A))
n compliance	with Section of the	c. 3215, Divis	ion 3 o work da	f the Public I	Resou so far	rces Code, as can be a	the info	rmation given	herewit	h is a	complet	e and cor	rect recor	d of the
Name	Don L.	-					Title	Senior Dr					a de la constante de la consta	
Address elephone Nu		35 Fourth				C	City	Calgary,					Zip Cod <b>T2P 3</b> 2	
•	mber 260-174	40	Sign	ature	2	MA		<u> </u>		Do	ate Jac	lg 5	184	The state of the s
G100 (3/82/						J		and the second s			s	UBMIT I	N DUPL	ICATE

#### WELL SUMMARY REPORT

#### Attachment #1

#### Souza #1 - Fresno County, California

FORMATION TOPS	(KB 452)		
<u>Formation</u>	Sample top	E-log top	Sub-sea <u>(E-log)</u>
	(Spud in Quate	ernary beds)	
Pliocene	(In surface ho	ole)	
Miocene(?)	2578	2574	- 2122
Kreyenhagen	2977	2992	- 2540
Domengine	36 <i>5</i> 4	3655	- 3203
Glauconitic	4185	4192	- 3740
Upper Dos Palos	4596	4598	- 4146
Cima	4658	4662	- 4210
Lower Dos Palos	5126	5130	- 4678
Dosados	5906	5909	- 5457
Blewett (morem)	6512	6512	- 6060
Ragged Valley	7341	7342	- 6890
Tracy	7435	· 7440	- 6988
Sawtooth	7987	7990	- 7 <i>5</i> 38
Lathrop	9156	91.57	- 8705
Total Depth	10,217 (Drillér)	10,212 (Logger)	
LOGGING SUMMARY	(Logging by	Schlumberger)	
RUN NO. 1 (at 7332')			
Dual Induction - SFL		7298 - 1709	
BHC Sonic Log		7304 - 145	
Litho-Density - Compens	ated Neutron	7304 - 145	

# History of Oil or Gas Well Attachment #1 Drilling History

### RECEIVED

JUL 13 1984

DIVISION OF OIL & GAS

83-11-03		SW 1/4, SE 1/4, SEC 36, T14S, R12E MDB & M FRESNO C	O CALIFORNIA
05-11-05		Rigging up. Rig to raise derrick. Estimate spud tomorrow - P.M.	(MONT. 19)
83-11-04		Rig to Spud. Rigging up - 18 hrs.	(MONT. 19) (63,289)
83-11-05 (1)	1602 Ft Surface	SPUD TIME: 08:30 Hrs 83-11-04 Progress: 1602 Ft.	(MONT #19) (71,374)
83-11-06 (2)	1652 Ft Surface	Wait on Casing. Progress: 50 Ft	(MONT # 19) (78,612)
83-11-07 (3)	1709 Ft Surface	W.O.C.  Progress: 57 Ft  Run 44 jts, 9 5/8" 36#, K-55, LT&C casing.  Cemented w/ 82 bbls 2:1:2 poz, tailed in w/ 60 bb  + 2% CaCl ₂ . Plug down Time: 01:30 Hrs 83-11-07.  Total Length of csg run 1713 '. Set @ 1709' KB.	(MONT # 19) (99,972)
83-11-08 (4)	1731 Ft Surface	Drilling Progress: 22 Ft	(MONT. 19) (109,486)
83-11-09 (5)	2809 Tremblay	Drilling Progress: 1078 2339 - 1 1/4°	(MONT. 19) (159,532)
83-11-10 (6)	4004 F† Eogene	Drilling Progress: 1195 Ft	(MONT. 19) (169,460)
83-11-11 (7)	4911 Ft C/Sand	Drilling Progress: 907 Ft	(MONT. 19) (183,948)
83-11-12 (8)	5758 F† M/Shale	Drilling. Progress: 847 Ft 5661 - 1°	(MONT. 19) (193,450)
33-11-13 (9)	6061 Ft M/ Shale	Ream to Bottom Progress: 303 Ft 6061 - 2°	(MONT. 19) (207,230)
33-11-14 (10)	6249 Ft Dosado/S	POH for DST. Progress: 188 Ft	(MONT. 19) (217,811)

```
AMERICAN HUNTER/SOUZA #1 SW 1/4, SE 1/4, SEC 36, T14S, R12E MDB & M FRESNO CO CALIFORNIA
 83-11-15 (11)
                 6373 Ft
                            Circ. sample
                                                                                (MONT. 19)
                 Bluitt
                            Progress: 124 Ft
                                                                                (228,763)
                            DST # 1: (6249 - 6202) 10/60/90/180
                            Results to follow.
83-11-16 (12)
                 6373 Ft
                            RIH with bit.
                                                                                (MONT. 19)
                 Bluitt
                            Progress: NII
                                                                                (242,579)
                            6373 - 2°
                            DST # 1:
                                      (6201.5' - 6249') 10/60/90/180
                                      PF: Strong air blow - NGTS
                                      ISI: GTS after 10 mins. 5' flare
                                      VO: GTS immediately - 6' flare, decreasing to 1' flare
                                           in 25 mins and steady - Charts show plugging.
                                      REC: 5' thick drilling mud
                                      IHP 3003 PSI
                                                        PFP
                                                              22 - 22 PSI
                                                                             ISIP
                                                                                   1506 PSI
                                           3003
                                                        FP
                                                              22 - 22
                                                                                   1506
                            DST # 2:
                                     (6308' - 6373') 10/60/60/120
                                      PF: GTS - 4 mins, est. 750 MCF
                                      VO: GTS immediately - max. 682 MCF, levels off to 435
                                           MCF - stabilized.
                                     REC: 15' thick slighly gassy cut drlg mud.
                                                       PFP 208 - 167 PSI ISIP 2747 PSI
                                      IHP 3108 PSI
                                           3108
                                                             146 - 62
                                                                                   2641
                                      Charts show slight plugging.
                                      BHT: 152° F
83-11-17 (13)
                6512 Ft.
                           POH with DST # 3
                                                                               (MONT. 19)
                Bluitt
                           Progress: 139 Ft.
                                                                               (252.041)
                           6512' - 2°
                           DST # 3: 6463' - 6512' 10/60/90/180
                           Results to follow.
                           DST # 3:6463'- 6512' 10/60/90/180
                           PF: GTS - 4 mins, 15-20' flare, est. 400 MCF descreasing
                               to 10' at end.
                           VO: 10' flare decreasing to 3' in 40 mins - stabilizing
                           REC: NII
                           PF 66 - 55
                                         IHP 3183
                                                      ISIP 1195
                           FF 22 - 22
                                              3183
                                                            1195
                           BHT - 162° F
                           Charts indicated plugging.
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AMERICAN HUNTER	R/SOUZA #1 S	SW 1/4, SE 1/4, SEC 36, T14S, R12E MDB & M	FRESNO CO CALIFORNIA
83-11-18 (14)	6915 Ft Bluitt	Drilling Progress: 403 Ft	(MONT. 19) (264,159)
83-11-19 (15)	7286 F† Bluit†	Drilling Progress: 371 Ft 6940 - 1 1/2° BGG - 20 units	(MONT. 19) (281,755)
83-11-20 (16)	7332 Ft D/Valley	Ream to Btm. Progress: 48 Ft 7332 - 2°	(MONT. 19) (317,933)
83-11-21 (17)	7699 Ft Tracy	Drilling Progress: 367 Ft	(MONT. 19) (326,396)
83-11-22 (18)	8080 F† SWTH/Sh	Drilling Progress: 381 Ft BGG - 20 units.	(MONT. 19) (337,108)
83-11-23 (19)	8525 Ft SWTH/Sh	Drilling Progress: 445 Ft 8402 - 2°	(MONT. 19) (347,476)
83-11-24 (20)	8615 Ft. SWTH/Sh	Wash to bottom.  Progress: 90 Ft.  8615 Ft - 2°	(MONT. 19) (359,091)
83-11-25 (21)	8730 Ft Sawtooth	POH. Progress: 115 Ft	(MONT. 19) (371,759)
83-11-26 (22)	8815 Ft Sawtooth	Drilling. Progress: 85 Ft 8730' - 2°	(MONT. 19) (386,589)
83-11-27 (23)	9019 Ft Sawtooth	Drilling Progress: 204 Ft	(MONT. 19) (395,574)
83-11-28 (24)	9159 Ft Lathrop	POH to core Progress: 140 Ft	(MONT. 19) (405,333)
83-11-29 (25)	9200 Ft Lathrop	POH w/ DST Progress: 41 Ft CORE # 1: Lathrop 9159' - 9200' Rec: 40 1/2' Core. 9159' - 2°	(MONT. 19) (416,024)

		SW 1/4, SE 1/4, SEC 36, T14S, R12E MDB & M FRESNO	CO CALIFORNIA
83-11-30 (26)	Lathrop 9200 Ft	POH w/Test tools.  Progress: Ni!  DST # 4: 9156' - 9200' (Lathrop Sand)  PF WAB - inc. SAB  Lost packer seat in 2 mins  Used and recovered 1200' water cushion & 523'	(MONT. 19) (426,089) drlg. mud.
		DST # 5: 9160' - 9200' (Lathrop Sand) Used 2000' water cushion Bottom hole conventional PF: Lost packer seat immediately, attempt to seat again.	reset, lost packe
83-12-01 (27)	9317' Lathrop	Circ. sample Progress: 117 [†]	(MONT. 19) (439,527)
83-12-02 (28)	9433' Lathrop	Pick up DST # 6. Progress: 116 Ft. DST #5: Used and rec. 2000' water cushion 1HP 5287 PSI 5213	(MONT. 19) (450,672)
		Misrun, lost packer seat immediately.	
83-12-03 (29)	9480 Ft Lathrop	5474	(MONT. 19) (469,803) 1287 PSI 1287
33-12-04 (30)	9726 Ft Lathrop	RIH to Core.  Progress: 246 Ft.  9689' - 3 3/4°  CORE # 2: 9726' - 9778' (L/Lathrop)  Cut 54' Rec - 45'	(MONT. 19) (478,458)
3-12-05 (31)	9778 Ft Lathrop	POH w/test tools. Progress: 52 Ft DST # 7: Results to follow.	(MONT. 19) (488,584)

# AMERICAN HUNTER/SOUZA #1 SW 1/4, SE 1/4, SEC 36, T14S, R12E MDB & M FRESNO CO CALIFORNIA

83-12-13 (39) 10,217' TD Tear out BOP's

(MONT. 19)

Progres: NII

(830,653)

Ran 257 jts 5 1/2", AC-80, 20#, LT&C csg. Landed @ 10,213 KB. Followed by 1532 cu ft. + .8% D-60, + .3% D-13, +.3& D46, followed by 755 cu ft. + .2% D-46 + .2% D-60. PDT: 0310 Hrs

83-12-13.

83-12-14 (40)

Tear out BOP's and cut casing.

(MONT. 19)

RIG RELEASE: 16:00 Hrs 83-12-13 STATUS: POTENTIAL GASWELL

(851,516)

# History of Oil or Gas Well Attachment #2 Completion History

#### AMERICAN HUNTER SOUZA # 1

THE TOTAL HOLLIER SOUZA # 1		
84-03-30 (1)	Rigging up. Move in rig and equipment. Rigging up.	(GAMACHE # 1) (7,180)
84-03-31 (2)	Run tubing. Finish rigging up. Unload 2 3/8" N80 tubing. Cut Install BOP. Fill tanks with 800 bbls fresh water	(GAMACHE # 1) off casing. (51,517)
84-04-01 (3)	Run tubing. RIH with 25 joints 2 3/8" tubing with 4 5/8" bit. drilling mud with fresh water. High winds and hea	(GAMACHE # 1) Reverse out vy rain. (56,434)
84-04-02 (4)	Run tubing. RIH with bit to 8400'. Circulate out drilling mud water every 1000'.	(GAMACHE # 1) with fresh (60,232)
84-04-03 (5)	RIH with scraper. RIH with bit to 10165'. Break circulation every 6 9000'. Circulate down to PBTD at 10177'. Circulated illing mud. POH. RIH with bit and scraper on 40 Gray oil tool arrived with primary seal. POH. Pictubing spool. Install primary seal and tubing seals to 5000 PSI. Held good.	ted out thick ) jts tubing. ck up BOP and
84-04-04 (6)	Logging. RIH with bit and scraper to PBTD. Displace to 3% k Schlumberger. Run CBL-VDL-CNL-GR log from PBTD to	(GAMACHE # 1) CCL. POH. Rig 2400 ft. (68,198)
84-04-05 (7)	Run tubing. Ran CBL-VDL log at 1700 psi from PBTD to 2400 ft. log and TDT logs from PBTD to 2400 ft. Bond logs i cement behind casing.	(GAMACHE # 1) Ran CET-GR-CCL nidcate no (71,909)
84-04-06 (8)	Pressure test casing. RIH to PBTD with tubing. Haul in chemicals to mix	(GAMACHE # 1) mud. (110,073)
84-04-07 (9)		(GAMACHE # 1) (113,633)

84-04-08 (10)

Est. circ between perfs.

Pressure test casing to 5000 psi for 15 mins. Held 0.K. Displace hole to 11.2#/gal gel mud. POH w/tbg. Fill hole. Perforate intervals 10060 - 10061 and 9870 - 9871! w/ 4" HSC casing gun @ 90° phasing w/ big hole charges @ 4 SPF. RIH with 4 jts tubing, retrievable packer and 2 3/8" tubing. Set packer @ 9915! KB. Pump down tubing @ 1/6 BPM @ 3000 psi w/returns up annulus. Pump 1/2 bbl. S.I.F.N. (124.143)

84-04-09 (11)

Run tubing and stinger.

Pump mud down annulus and up tubing starting @ 1/6 BPM @ 3300 psi. Pump total of 95 bbls. Final rate of 3/4 BPM @ 2800 psi. Recovered small amounts of gas and solids. No loss to formation. Unseat packer and lower tail pipe to 10112' KB. Reverse circ hole clean w/ 50 bbls mud. POH w/tubing and packer. Rig Schlumberger and set EZ drill cement retainer @ 10056' KB. Pick up stinger and RIH w/ 206 jts tubing. S.I.F.N. (130,270)

84-04-10 (12)

Running free point. (GAMACHE # 1) Finish RIH w/tubing and stinger. Stab retainer and pressure test to 1000 PSI. Est. circ rate of 3/4 BPM @ 1800 PSI w/8 bbls mud. Rig Howco to cement w/65 sxs Class "G" + 30% silica flour + 5% KCL + 1/4#/sxs D-Air + 0.1% HR-7 + 0.75% FDTC - 322. Pull out of retainer. Circ 10 bbls mud flush, 17.7 bbls slurry, 2 bbls fresh water and 7 bbls mud to bottom of tubing. Stab retainer and displace w/27.5 bbls mud @ 1 BPM @ 3000 PSI. Bleed off tubing and casing pressure. Pull out of stinger and pull 10 jts tubing to 9745'KB. Reverse circ clean w/61 bbls mud. Recovered 11 bbls cement. Start cement @ 1205 hrs. Finish reverse circ @ 1350 hrs. Attempt to pull tubing. Would not move. Work tubing - no movement. Circ mud for 30 mins @ 1.5 BPM @ 1200 PSI for 3 hrs. Pull tubing to 80,000# - no movement. Land tubing in slips and pressure casing to 500 PSI. S.I.F.N.

84-04-11 (13)

Bleed off 500 PSI wellhead pressure. Rig Schlumberger and run free point tool. Found free point @ 9360 KB. Reverse circ hole to fresh water. SIFN. (145,456)

84-04-12 (14)

Pull tubing.

Rig Halliburton and circ 750 gals 15% HCL + inhibitor down tubing and up casing annulus. Wash acid past tubing by alternately pumping down tubing and casing. Work tubing, no movement.

Backwash acid w/fresh water. Acid partly spent w/ small volume of acid gas. Rig McCullough and cut tubing @ 93551 KB w/ chemical cutter. Pull tubing w/drag on first joint then pulled free. Pull 200 jts tubing. SIFN. (154,516)

84-04-13 (15)

Pull washover pipe.

Pull remainder of tubing and lay down cut off joint. Pick up 4" washover mill and 217' of 4" x 3 3/8" washpipe, jars, bumper sub and RIH on 2 3/8" tubing. Tag obstruction @ 8936' KB. Rig Power Swivel and mill out cement stringers to 9226' KB. Pipe torquing up. Circ. hole clean. Start POH w/washover pipe. (158.676)

84-04-14 (16)

Washing over tubing. (GAMACHE#11)
POH with remaining tubing and washpipe. Pick up 4 5/8" bit and
RIH to 9226' KB. Rig up power swivel and ream out cement to top
of fish at 9355' KB. Circulate hole clean. POH with tubing and
bit. Pick up washover mill, 245' washpipe, jars and bumper sub
and RIH to 9355' KB. Rig up power swivel and washover fish to
9460' KB. Fine ground cement returns. (165,250)

84-04-15 (17)

POH with washpipe.

Washover fish to 9600' KB. Circulate clean. POH with tubing and washpipe. Pick up tubing cutter and grapple and RIH with tubing. Made cut at 9572' KB. POH and lay down 7 joints tubing and 2 cut off stubs. RIH with washover mill and washpipe to 9600' KB. Washover fish to 9745' KB. No progress in 20 mins. Should be at top of cement stinger. Circulate hole clean. (170,790)

84-04-16 (18)

Drilling on cement retainer.

POH with tubing and washpipe. Pick up overshot. RIH and latch fish at 9572' KB. POH with tubing and overshot and recovered 6 joints tubing and retainer stinger. Pick up 4 5/8" bit, six 3 1/2" drill collars. RIH and tag cement at 9745' KB. Drill through cement to 9885' KB. Pressure test upper perfs to 2000 psi. Held O.K. Run down and tag cement at 10,051' KB. Drill through cement and tag retainer at 10,056' KB. Drill on retainer. (176,150)

84-04-17 (19)

Rigging out Schlumberger.

Drill out cement retainer and cement to 10,062'KB. Clean out to 10,177'KB. Circ hole clean. Pull tbg and lay down DC's. Pick up casing scraper and RIH to 10,177'KB. Work scraper from 8920 - 10,070'KB. PT csg to 2000 PSI. Held 0.K. Displace hole to 3% KCL water. POH. Rig Schlumberger and run CBL-VDL-CCL and CET-CCL from PBTD to 9200'KB. Made 2 passes with zero pressure and 2000 PSI

84-04-18 (20) Lathrop

Pull FWG plug. (GAMACHE #11) Pick up Van gun assembly, firing head,  $4! \times 2 3/8"$  pup, 2 3/8"tubing release w/1.81" latch,  $10^{\circ} \times 2^{\circ} 3/8$ " pup, 1.81 "F" nipple,  $2.3/8" \times 10!$  pup,  $2.3/8" \times 10!$  pup, 2.3/8" flow disc assembly, Brown Hughes M-1 packer, 2 3/8" x 2' pup, Baker EL-2 on-off too! w/1.875 profile w/blanking plug in place, 1 jt 2 3/8" tubing, RA Marker Collar, 61 pup and RIH w/ 2 3/8" tubing and space out pups. Position gun wSchlumberger GR tool. Set packer in 9000# compression. Re-check position w/GR tool. Release and re-set packer @ 9924' KB w/gun positioned to perforate Lathrop formation inervals 10,035 - 10,045', 10,014' - 10,026', 9990 - 9999', 9975 - 9986', 9967 - 9971'. Pressure test packer to 500 psi. Held O.K. Remove BOP's and install wellhead. Rig Baker to pull FWG plug. (221.742)

84-04-19 (21) Lathrop

Assemble guns.

Pull equalizing prong and Mandril from EL-2 profile @ 9920' KB.

Drop detonating bar to fire guns. No positive indication of firing. Slight air blow up tubing. PT annulus. Circ hole @ 1.5 BPM @ 200 PSI. Indication of packer failure. Rig wireline and attempt to pull detonating bar. No success. Install BOP's.

Unseat packer and POH. Top 3 sections of gun fired at low order detonation. Bottom 2 did not fire. Order new guns, install new FWG plug in EI-2 on-off connector. Redress packer.

84-04-20 (22) Lathrop

Rig up braided line.

RIH w/ new gun assembly, 2 3/8" x 10' pup, 2 3/8" x 4' pup, tubing release, 2 3/8" x 4' pup, 1.81 "F" nipple, 1 jt 2 3/8" tbg. Fill disc assembly, M-1 packer, 2 3/8" x 2' pup, EL-2 on-off tool with FWG plug in place, 1 jt 2 3/8" tubing, RA marker collar, 2 3/8" x 6' pup on 2 3/8" tubing. Position gun with Schlumberger. Set packer @ 9905' KB. Re-check depth with wireline. O.K. PT annulus to 500 PSI. O.K. Install wellhead. Rig Baker and pull equalizing prong from FWG plug. RIH and latch plug. Unable to pull plug. Attempt to shear from pulling tool. W/L parted @ surface. Fish wire and drop cutter bar to cut @ rope socket. Rig out slick line. (234,397)

84-04-21 (23) Lathrop

Pulling tubing.

Rig up braided line. RIH and recover cutter bar. RIH and latch FWG plug. Jarred for 3 hrs. Unable to pull plug. Pulled out of rope socket and rig out braided line. Remove WH and install BOP's. Unseat packer. POH w/tubing and assembly. Dogs on FWG plug were broken. RiH w/open ended tubing to PBTD. Rig Howco N2 unit and blow hole dry w/N2. Start POH w/tubing.

(247.898)

84-04-22 (24)	Lathrop	Swabbing.  0800 hrs (10 hrs S.I.). No measurable pressure on wellhead. Bleed off - very light gas flare to pit. Well dead. Pick up and RIH w/the following: 1.79 Otis "XN" nipple, 1 jt tubing, 1.87 Otis "X" nipple, 2 3/8" x 4' pup, M-1 packer, 2 3/8" x 2' pup, Otis tubing seal divider w/1.87 profile and 2 3/8" tubing to surface. Set packer @ 9902.6' KB w/XN nipple @ 9940.3'KB. Fill annulus w/3% KCL water and PT to 500 PSI for 30 mins. Held 0.K. Rig to swab. IFL @ 8600'KB. Pulled 2 swabs to 9890' to recover bbls mud and muddy water. FFL @ 9600'. S.I. @ 1400 hrs. (260,310)	
84-04-23 (25)	Lathrop	Swabbing. (GAMACHE#11) 0700 hrs (17 hrs S.I.) No measurable pressure on Wellhead. Rig to swab. IFL @ 8300'. Pulled 3 swabs over 9 hrs to recover 6 bbls water. No gas flow. Salinity by refractometer 9600 PPM. S.I. @ 1700 hrs. (263,190)	
84-04-25 (26)	Lathrop	Swab testing. (GAMACHE #11) 0700 hrs (14 hrs S.I.) No measurable pressure on wellhead. Rig to swab. IFL @ 8950'. Swab total of 6 bbls water throughout day. No gas flow. FFL @ 9875'. Total new fluid recovered 15 bbls. S.I. @ 1700 hrs. (265,750)	
84-04-26 (27)	Lathrop	Swab testing. (GAMACHE#11) 700 hrs 14 hrs S.I.) SITP 15 PSI. Bleed off gas head. Rig to swab. IFL @ 9500' KB. Swab a total of 3.1 bbls water throughout day. FFL @ 9800'KB. Total new water swabbed to date: 18.1 bbls. S.I. @ 1700 hrs. (268,310)	
84-04-27 (28)	Lathrop	Running tbg ostinger. (GAMACHE#11) 0700 hrs (14 hrs S.I.) SITP: 10 psi. Bleed off and rig to swab. IFL @ 9000'. Pull 2 swabs to recover 1 bbl water. FFL @ 9400'. Fill tbg w/ KCl water. Press tbg to 4500 psi. No feed. Remove wellhead and install BOP's. Unseat packer and POH w/ tubing and packer. Rig Schlumberger and set EZ drill cement retainer @ 9862'KB. SIFN. (271 070)	

84-04-28 (29) Lathrop

Running tubing and packer. (GAMACHE #11) Pick up stinger and RIH on 2 3/8" tubing. Stab retainer and Rig Howco and establish feed rate of 1 BPM @ 8200 PSI w/3 bbls water. Pull out of retainer and batch mix 50 sxs cement. Circ. to bottom and sting into retainer. Squeeze 6 bbls cement to perfs to max. pressure of 9000 PSI. Bleed off to 4000 PSI and pull out of retainer. Backwash excess cement. Rig in No unit and blow hole dry. POH w/ tubing and stinger. Rig Schlumberger and perforate the following w/4" csg gun @ 2 SPF: 9828 - 9832', 9821 - 9826', 9816 -9819', 9798 - 9811', 9784 - 9791', 9768 - 9783', 9740 -97521, 9723 - 97351, 9707 - 97121, 9698 - 97051. Total of 172 shots. Slight air blow after perforating. S.I. well @ 2400 hrs. (298.353)

84-04-29 (30) Lathrop

Swab testing. (GAMACHE#11) 0700 hrs (7 hrs S.I.) SIWHP 5 PSI. Bleed off gas head to pit. Pick up and RIH w/ the following" 1.79 Otis "XN" nipple, 1 jt 2 3/8" tubing, 1.875 Otis "X" nipple, 2 3/8" x 4' pup, Otis Permalatch packer, 2 38" x 2' pup, 1.87 tubing seal divider on 2 3/8" tubing. Set packer @ 9630' KB w/ "XN" nipple@ 9672.5 m, "X" nipple @ 9640.0' KB, tubing seal divider @ 9625.8' KB. Fill annulus and PT packer to 500 PSI for 30 mins. Held O.K. Rig to swab. IFL @ 6800' KB. Pulled 7 swabs over 3 hrs to recover 21 bbls gas cut water. FFL @ 9200'. Salt content by refractometer 9600 PPM. S.I. @ 1700 hrs. (304.127)

84-04-30 (31) Lathrop

Swab testing. (GAMACHE #11) 0700 hrs no pressure on W.H. Rig to swab. IFL @ 3800' KB. Swab total of 34.7 bbls formation water throughout day. 9600 PPM salt by refractometer. Slight trace of gas breaking out of water. FFL @ 9400'. S.I. @ 1700 hrs.

(306.687)

Total New Fluid Recovered: 55.7 bbis.

84-05-01 (33) Lathrop

Pressure test bridge plug. (GAMACHE #11) 0700 hrs SITP 5 PSI. Rig to swab. IFL @ 4300'. Pull 5 swabs to recover 18.5 bbls formation water. Total new fluid recovered: 74.2 bbls. Fill tubing and establish feed rate of 0.2 BPM @ 4000 PSI. Pressure bled to 2500 PSI in 3 mins. Unseat packer and POH. Rig Schlumberger and set bridge plug @ 9670' KB. SIFN. (309.247)

84-04-02 (34) Lathrop

Circ. hole. (GAMACHE#11)
Press test BP to 5000 psi for 15 mins. Held OK. Rig
Schlumberger and perforate intervals 9467 - 68 and 9351 -52
w/4" HSC csq qun @ 90 degrees phasing, Big hole charges @ 5
shots/interval. Pick up retrievable packer and RIH on
2 3/8 tbg. Circ hole to 3% KCL water. Set packer @
9375'KB. Break circ down tbg @ 2500 psi. Attempt to
circ down annulus w/no success. Re-establish circ down tbg
@ 2.1 - 2.8 BPM @ 2500 - 3000 psi. Circ. hole for 6 hrs
until clean. Recovered sand, shale, and cement. Unseat
packer and pull above top perfs. SIFN (314,687)

84-05-03 (35) Lathrop

0700 hours SIWHP: 1100 psi. Bleed off to recover 1/2 BBL water. Circ hole clean. POH w/ tbg & packer. Rig Schlumberger & set cement retainer @ 9460' KB. Pick up stinger & RIH w/tbg & stab into retainer & establish circ. Mix 50 sxs cement (13.3 BBLS slurry) & displace between 2 sets of perfs w/KCl water @ 3.5 BPM @2800 psi. Pull out of retainer to 9210' KB & backwash excess cement. Pull tbg to 8960' KB & press up wellbore to 2000 psi. S.I. well. (334.129)

84-05-04 (36) Lathrop

0700 hours SIWHP: 1300 psi. Bleed off & POH w/tubing and stinger. Pick up 4 5/8" bit and drill collars and RIH to tag top of cement @ 9226'KB. Rig up power swivel and drill out cement and stringers to top of retainer @ 9460' KB. Circ hole clean. Press test upper perfs to 2500 psi. Held O.K. SIFN.

(337,289)

84-05-05 (37) Lathrop Running tubing. 0700 hrs SIWHP: 1350 psi. Bleed off to recover 1 bbl KCI water. POH w/ tubing & lay down DC's. Press test upper perfs (9351-52) to 5000 psi. Press bled off to 4800 psi in 15 mins. Pick up bit & csg scraper & RiH to top of retainer @ 9460'KB. Reverse circ hole clean. POH w/ tbg & scraper. SIFN. (340 349)

84-05-06 (38) Lathrop

RIH w/ seal assembly. 0700 hrs SIWHP: 600 psi. Bleed off water head & RIH w/ 2 3/8" tbg to 9457'KB. Rig up Howco No unit & blow hole dry w/ N2. POH w/ tbg. Rig Schlumberger and perforate Lathrop interval 9380-9423 w/ 4" HSC csq. gun @ 2 SPF. Total of 86 shots. 5 min air blow after shooting lower 23' and 5 min air blow after shooting upper 201. Pick up 1.79 Otis "XN" nipple, 2 3/8 x 10' pup, 2  $3/8 \times 4!$  pup, Otis permatrieve packer & set packer on W/L @ 9357'KB. "XN" nipple @ 9378'KB. SIFN. (360 690)

84-05-07 (39) Lathrop

Swabbing. 0800 hrs no press on WH. RIH w/ Otis anchor seal assembly  $6' \times 2$  3/8 pup, tubing seal divider w/ 1.875 "X" profile. Latch packer, space out and land dognut. Fill annulus w/ 150 bbls water & press test to 500 psi for 15 mins. Held OK. Rig to swab. IFL @ 8550'KB. Pulled 2 swabs from 9350 to recover 1.75 bbls water. FFL @ 9000'. S.I. @ 1600 hrs. No trace of gas. (363 609)

84-05-08 (40) Lathrop

Swabbing. 0700 hrs SITP: 0 psi. Rig to swab. IFL @ 6460 KB. Pulled 9 swabs throughout day from 93501KB to recover 12.5 bbls water. Trace of gas with swabs. FFL @ 8200'. (366 709)

84-05-09 (41) Lathrop Difficulty swabbing dry due to swab cups wearing out. Water salinity by refractometer 9600 ppm. Total new fluid recovered 14.25 bbls. S.I. @ 1700 hrs. Swabbing.

0700 hrs SITP: 25 psi. Rig to swab. IFL @ 6600' K.B. Pulled 9 swabs over 9 1/2 hrs from 9330' K.B. to recover 7.5 bbls water. Trace of gas w/ swabs. FFL @ 8600! K.B. S.I. @ 1700 hrs. New mluid recovered: 21.75 BBLS.

(369.809)

84-05-10 (42) Lathrop

Swabbing.

0700 hrs SITP: 10 psi. Bleed off and rig to swab. IFL: 7920'KB. Pulled 5 swabs over 10 hrs from 9330'KB to recover 3.75 bbis water. FFL @ 9000'KB. Total new fluid recovered 25.5 bbls. S.I. @ 1700 hrs. (372.709)

84-05-11 (43) Lathrop

Pull tubing.
0730 hrs no measurable pressure on wellhead. SICP
remaining @ 170 psi. Bleed off annular pressure. Fluid at
surface. Re-test to 500 psi. No leak off. Rig to swab.
IFL @ 7920'KB. Swab total of 3.75 bbls water throughout
day. FFL @ 9100'KB. Total new fluid swabbed: 29.25 bbls.
Fill tubing with KCI water. Pressure tubing to 4500 psi.
Annular pressure started increasing indicating we have
broken down cement between main perfs and upper squeeze
perfs @ 9350-51'. Bleed off pressure and prepare to pull
tubing. (375.709)

84-05-12 (44) Lathrop

Cement squeeze.

Pull anchor seal assembly from packer & POH. RIH w/ packer releasing stinger to top of packer. Circ hole, latch packer & unseat & POH w/ packer and tailpipe. Rig Schlumberger & set EZ drill cement retainer @ 9340'KB. PT to 3000 psi. Pick up stinger & RIH w/ 2 3/8" tbg. SIFN. (384 509)

84-05-13 (45) Lathrop

Perforating.

Sting into retainer @ 9340¹KB. Est. feed rate of 1 BPM @ 5800 psi. Pull out of retainer. Mix 50 sxs cement - total of 10 bbls slurry - circ cement to bottom of tbg & sting into retainer. Pump 5 bbls slurry @ 1 BPM @ 6100 psi. Stage squeeze 1 bbl slurry to standing pressure of 6500 psi. Pull out of retainer and backwash excess slurry. Rig Howco N2 unit & blow hole dry w/ N2. POH w/ tbg. (394 649)

84-05-14 (46) Lathrop

Pulling tbg & packer.

Rig Schlumberger & perforate Lathrop intervals 9192-9199, 9182-9185, 9159-9176 KB w/ 4" HSC csg gun @ 2 SPF.
Total of 57 shots. Weak air blow after shooting 9192-99 & 9182-85 and fair blow after shooting 9159-9176.
Pick up tailpipe & packer & RIH on 2 3/8" tbg. Attempt to set packer several times without success. Start POH w/ tbg & packer. (402 349)

84-05-15 (47) Lathrop

Swabbing

0700 hrs (13 hrs S.i.) Well head press: 40 psi. Bleed off pressure w/ lazy 2 - 3' flare. POH w/ remaining tbg and packer. Re-dress pkr & RIH w/ 1.79 "XN" nipple, 1 jt 2 3/8 tbg, 1.87 "X" nipple, 2 3/8 x 4' pup, OTIS premaiatch packer, 2 3/8 x 6' pup, On - Off tool w/ 1.87 "X" profile on 2 3/8 tbg. Set packer @ 9081' w/ "XN" nipple @ 9123', X nipple @ 9091', and On-Off tool @ 9073'KB. Fill annulus w/ 80 bbls KCL water & press test packer to 500 psi. Held OK. Rig to swab. IFL @ 4850' KB. Pulled 7 swabs over 4 hrs. to recover 16 bbls water. FFL @ 8500'KB. Trace of gas w/ swabs. S.i. @ 1700 hrs.

(407,854)

AMERICAN HUNTER SOUZA # 1	AMER	<b>ICAN</b>	HUNTER	SOUZA	# 1
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84-05-16 (48) Lathrop Swabbing 0700 hrs SITP: 300 psi. Bleed off gas head. Rig to swab. IFL @ 2060'KB. Pulled 14 swabs over 10 1/2 hrs to recover 46 bbls water. Trace of gas with swabs. No gas flow after swabs. FFL @ 8000' KB. S.I. @ 1700 hrs. Total new fluid recovered: 62 bbis. (414.154)84-05-17 (49) Lathrop Swabbing 0700 hrs SITP: 145 psi. Bleed off and rig to swab. IFL @ 3000' KB. Pulled 16 swabs over 10 1/2 hrs from 9050' to recover 38.2 bbls water. Trace of gas with swabs. No after flow. FFL @ 7900'. S.I.@ 1800 hrs. Total new fluid recovered: 100.2 bbls. (414.354)84-05-18 (50) Lathrop Pull packer. SITP 120 psi. SICP 100 psi. Pressure annulus to 500 psi for 15 mins. Bled annulus down to 175 psi. Bled off tubing. Rig to swab. Fluid level at 3300 ft. Pulled 16 swabs over 10 hrs to 9050 ft to recover 38.85 bbls of gassified water. No gas after swabs. Final fluid level at 8400 ft. New fluid recovered 138.85 bbls. Shut in at 1800 hrs. (417, 454)³4-05-19 (51) Lathrop Set packer. (GAMACHE #11) 0700 SITP 150 psi. SICP 150 psi. Bled off tubing. Fill tubing with 16 bbls 3% KCI water. Unseat packer. Circulate hole. Pull and lay down 85 joints of tubing. POH. Lay down packer. Rig Schlumberger. Set Halliburton bridge plug at 9145 ft. Pressure test plug to 3500 psi for 20 mins. Held good. Perforate intervals 6552-6553! and 6410-6411! at 4 SPF with 4" HSC gun using 22 gm charges. RIH with packer to 63291. (426.454)84-05-20 (52) Pull packer. (GAMACHE #11) 0700 SITP and SICP 640 psi. Bled off. Circulate with 3% KCI. Well flowing. Mix 200 bbls 7% KCI. Displace hole. RIH and set packer at 6425'. Squeeze 10 bbls down annulus at 1/2 BPM at 2200 psi with no returns. Squeeze 12 bbls down tubing at 3/4 BPM at 2200 psi with no returns. (431,554)

84-05-21 (53)

Cement squeeze. (GAMACHE #11) 0700 SITP 580 psi. SICP 380 psi. Bled off. Unseat packer. Pull 2 joints. Circulate hole. POH. Lay down packer. Rig Schlumberger. Set Halliburton EZ-SV cement retainer at 6545'. RIH with stinger on 2 3/8" tubing and set into

retainer. (438,954)

84-05-22 (54)

W-0-C-(GAMACHE #11) 0700 SITP 400 psi. SICP 100 psi. Bled off. Rig Halliburton. Establish feed rate down tubing at 1/2 bbl/min at 3600 psi with 3 bbls. Pull out of retainer. Mix 50 sxs oilwell class "G" cement plus additives. Slurry volume 10 bbls. Circulate to bottom. Stage squeeze 7 bbls to formation to standing pressure of 2250 psi. Pull out of retainer. Backwash excess cement. Pull to 63981. Establish feed rate into perforations at 6410-6411' at 1/2 bbl/min at 2100 psi. Mix 50 sxs of same cement as above. Slurry volume 10 bbls. Circulate cement to bottom. Pull tubing to 57751. Stage squeeze 8 bbls to 2200 psi. Shut in on squeeze at 1600 hrs. (445,754)

84-05-23 (55)

Pull tubing. WOC. SIP 1950 psi at 1800 hrs.

(448.454)

84-05-24 (56)

Finish pulling tubing.
0700 hrs. SIP 1800 psi. Bleed off. POH. RIH with bit and drill collars on 2 3/8 tubing. Tag cement @ 6338 feet. Drill out cement and clean out to top of retainer at 6545 feet.
Circulate clean. Pressure squeeze to 2000 psi for 20 minutes.
Hold good. POH. SDFN with 10 joints of tubing and drill collars and bit left to lay down.

(451,454)

84-05-25 (57)

Pick up tubing.
Finish POH. Lay down drill collars. Unload new 2 3/8" N80
EUE tubing. RIH with bit and scraper. Tag top of retainer.
POH laying down tubing. Lay down bit and scraper. Pick
up and run 130 joints new tubing.

(454 554)

84-05-26 (58) Moreno

Fishing casing gun. Continue running in hole with new tubing. Land tubing at 65431. Displace to nitrogen. POH. Rig Schlumberger. RIH with 4" HSC csg gun with 25' at 2 SPF. Log gun into position to cover interval 6466-6491'. Shot interval 6491-6481' with good kick. Gun did not appear to fire over interval 6481-64661. Tool stuck. Worked for 1 hour. Pulled line off at gun. POH. Bottom of line covered with cement, colored material. Ordered out fishing tools. RIH w/ grapple overshot with jars and bumper sub on tbg. Took weight at 62451. Worked down and latch onto fish at 64621. Unable to hold onto latch onto fish. Pull 20 jts. Pump 32 bbls down tubing. SDFN. (458,554)

84-05-27 (59) Moreno

Run packer.

0700 SIP 50 psi. Circulate out sand and mud from
6245' to top of fish at 6461'. Latch onto fish
and pull loose with 8000 lbs. POH. Lay down
fishing tools and perforating gun. Gun had
completely fired. RIH with tubing to 6545'.
Circulate clean with 7% KCl water. POH. RIH w/
1.79 "XN" nipple + 1 joint tubing + 1.875 "X"
nipple + 4' pup joint + Perma-latch packer +
6' pup + 1.875 on-off tool on 105 joints tubing.
SDFN. (497.045)

84-05-28 (60) Moreno

Swabbing.

0730 SIP zero. RIH with packer. Unable
to set packer. POH. Lay down packer. RIH
w/ 1.79 "XN" nipple + 1 joint tubing + 1.875
"X" nipple + 6' pup joint + Guiberson Uni-V
packer on 2 3/8" tubing. Set packer at 6367'
with XN nipple at 6408'. Land tubing in dognut.
Pressure annulus to 1000 psi. Held good. SDFN.
Temp. 95 °F. (504.115)

84-05-29 (61) Moreno

Swab test 0830 SITP 50 psi. Rig to swab. Fluid level at surface. Pull 13 swabs over 4 1/2 hrs to 6300 feet to recover 28.8 bbls. Final fluid level at 5500 feet. Runs 9 to 13 had swab problems due to heavy drilling mud. Gas blow after swabs 9 to 13. New fluid 2.8 bbls. RIH with sinker bars to 6000 feet. POH Tools covered with heavy drilling mud and sand. SDFN at 1630 hrs

.(506,915)

84-05-30 (62) Moreno

Run coiled tubing.
0730 SITP 480 psi. Bled off. Rig to swab.
RIH and tag fluid. Level at 5500'. Unable to go deeper. Pump in 3 bbls KCI water. RIH with swab bar and work bar from 5000 to 6300'. Pull 3 swabs to 6000'. Final fluid level at 5900'. RIH with sinker bars to 6500'. POH. Tools covered with viscous drilling mud. Pulled 5 dry swabs. SI.

(510915)

-d4-05-31 (63) Moreno

Swabbing 0700 hrs SITP: 380 psi. Bleed off & rig in OTIS coiled tbg unit RIH to 6540' KB while pumping N2. Very little fluid returns. Nitrogen appears to be by-passing fluid. Pull coiled tbg to 5000' & fill hole w/ KCL water. Break circ w/ KCL water & clean out to 6540' KB until clean returns. Rec'd approx. 5 bbls thick. mud with traces of sand. Pull coiled tbg to 6493' & spot 500 gal 15% MCA to perfs. Pull coiled tbg & squeeze acid to perfs @ 2.5 BPM @ 2450 psi. ISIP: 1750 psi bleeding to 1250 psi in 15 min. Open well to tank to recover 1.5 bbls KCL water in 30 mins. Leave open to tank w/ slight flow of water. (521.430)

84-06-01 (64) Moreno

Swabbing 0700 hrs rig to swab. IFL @ surface. Pulled 13 swabs over 9 1/2 hrs. from 6300' to recover 26.5 bbls KCL water and acid water. FFL @ 6000'. Waited 1 hr between swabs 9 and 13. Fair gas blow after swab #12. No blow after swab 13. S.I. @ 1700 hrs. LFLTR: 9.7 bbls.

(525, 180)

84-06-02 (65) Moreno

Swabbing.

0700 hrs SITP: 240 psi. Bleed off and rig to swab. IFL @ 4800'. Pull 5 swabs over 2 hrs from 6300' to recover 4.25 bbis fluid. Good gas blow after 5th swab. Unable to get past 5200' on swab #6. RIH w/ sinker bar and unable to get past 5200'KB. Fill hole w/ KCl water. Unseat packer and reverse circ hole clean to bottom @ 6545'KB. Recover thick mud with sand and silt. Reset packer @ 6367' with tailpipe @ 6408'KB. Press test packer to 1000 psi for 15 mins. Held OK. Rig to swab. Pull 4 swabs to recover 13.75 bbis KCl water. LFLTR: 13 bbis. Si @ 1945 hrs.

84-06-03 (66) Moreno

Swabbing. (GAMACHE #11) 0700 hrs SITP: 340 psi. Blow down and rig to swab. IFL @ 2700'KB. Pull 9 swabs throughout day from 6000' to recover 16.5 bbls fluid. Good gas blow after swab #3. Unable to get past 4700' on swab #4. Pump 3 bbls KCI water down tbg & work sinker bar from 4000-6000'. Re-run swab. Recovering very thick muddy fluid. FFL @ 4900'. S.I. @ 1700 hrs. New fluid recover: 3.5 bbls. (531,830)

84-06-04 (67) Moreno

Swabbing

0730 hrs SITP: 650 psi. Blow down & rig to swab. IFL @ 3900¹. Unable to get down w/ swab and sinker bar. Pump 3 bbls KCI water down tbg & work sinker bar from 3900-6300¹.

Re-run swab. Recovered 7 bbls fluid in 4 runs. Fluid gassy w/ after blow. Unable to get down on swab #7. Pump 6 bbls KCI water down tbg. Unseat packer & circ hole w/ 2% KCI water to 6520¹KB to recover heavy mud. Re-set packer @ 6376¹KB.

Press test packer to 1000 psi for 15 mins. Held 0.K. Rig to swab. Pulled 5 swabs to recover 15.5 bbls KCI water. FFL @ 3600¹. S.I. @ 1830 hrs. New fluid recovered prior to filling hole 7.5 bbls.

84-06-05 (68) Moreno

Swabbing.

0700 hrs SITP: 400 psi. Bleed off & rig to swab. IFL @ 2700'
Pull 5 swabs over 2 hrs to 5500' to recover 10 bbis KCL water &
mud. Unable to get past 5500'. Pump 10 bbis KCL water down tbg.
Unseat packer and rig to swab. Pull 21 swabs over 8 hrs to
recover 90 bbis. KCL water, mud and sand. Mud is dark grey
with sand in suspension. Wt. 11.9 #/gal. FFL @ 5200'.

S.I. @ 1900 hrs. LFLTR: 29 bbis.

(537,645)

34-06-06 (69) Moreno

Rig N₂ unit
0700 hrs SITP: 95 psi, SICP: 115 psi. Bleed off tbg & rig to
swab. IFL @ 4600'. Pull 6 swabs over 2 hrs to 6300' to recover
15 bbls muddy water w/ trace of sand. FFL @ 5600' very little
gas. Pump 10 bbls KCL water down csg annulus. New FL @ 5000'.
Pull 14 swabs over 7 hrs from 6300' to recover 15 bbls muddy
water. RIH w/ sinker bar to 6540'. No fill. FFL @ 5800'.
Very little gas S.I. @ 1700 hrs. LFLTR: 9 bbls
(540,305)

84-06-07 (70) Moreno

Displace hole with N2 0700 SICP: 245 psi, tbg press 0 psi (tbg left open for nite). RIH w/ swab to tag fluid @ 5700 KB. Lower tbg to 6498'. Rig N2 & reverse circ hole to recover 7 bbls heavy mud and sand. Continue pumping  $N_2$  w/ no fluid recovery. Pull up & set packer so tailpipe at 6408'. Inject 20000 SCF  $N_2$  to formation to 4500 psi. ISIP 4400 psi bleeding to 3100 psi in 15 mins. Open on 1/4" choke and recovered large amounts of sand. Tubing plugged off. Fill annulus w/ KCl water. Release packer and reverse circ hole with water. Recover 5 bbls heavy mud & sand. Re-set packer. Pull 2 swabs and flared gas for 30 mins with fair gas blow and tbg plugged off. Release packer & reverse w/  $N_2$  to recover 3 bbls heavy mud and sand. Ran out of  $N_2$ . Set packer. Swab water Good gas blow for 15 mins then the plugged off again. Left tbg open to tank for nite. New fluid recovered to date 6 bbis.

84-06-08 (71) Moreno

Circulate hole w/ N₂
Tubing unloaded 5 bbls mud & sand @ 0400 hrs.
Faint blow of gas. RIH w/ sinker bar & unable to pass 100'KB. Unseat packer & reverse hole w/ N₂ to recover 5 bbls mud & sand. Lower tbg to 6490'KB & reverse out 2 bbls mud w/ N₂. Set packer @ 6458' & pump 50 MCF N₂ to perfs @ 4500 psi. Open to flow on 1/8" choke @ 1120 hrs. Pressure dropping steadily w/ trace of gas mixed w/ N₂. At 1800 hrs TFP 180 psi. Open on 1" choke. Well periodically died & flowed muddy water till 2300 hrs. S.I. @ 2300 hrs. Approx. new fluid rec'd today: 17 bbls. (555 941)

#### AHEL SOUZA #1 - FRESNO COUNTY, CALIFORNIA

(GAMACHE #11)

84-06-09 (72) Moreno

SI for B.U.

0700 hrs SITP: 614 psi (8 hrs S.I.) Blow down
on 1" choke for 2 hrs to recover approx. 3 bbls
watery mud & sand with trace of condensate. S.I. for
1 hr. Tbg built to 155 psi. Blow down on 1" choke
unseat packer and reverse hole w/ N2 to recover 2 bbls
watery mud. Reset packer leaving 960 psi N2 pressure
on annulus. Leave tbg open on 1" choke. TFP less than
10 psi, est. rate 50-75 MCFD. S.I. @ 1330 hrs & record

surface B.U. pressure as follows:

```
30 mins - 120 psi
                      9 hr - 585 psi
1 hr
        - 190 psi
                      10 hr - 630 psi
2 hr
        - 275 psi
                      11 hr - 675 psi
3 hr
        - 310 psi
                      12 hr - 690 psi
4 hr
        - 390 psi
                      13 hr - 730 psi
5 hr
        - 445 psi
                      14 hr - 750 psi
6 hr
        - 490 psi
                      15 hr - 790 psi
7 hr
        - 530 psi
                      16 hr - 800 psi
8 hr
        - 550 psi
                      17 hr - 820 psi
                      18 hr - 840 psi
                              (559 286)
```

84-06-10 (73). Moreno

Running tbg. (GAMACHE #11)
Well S.I. total of 19.5 hrs. SITP: 890 psi. Blow
down on 1" choke. No fluid recovered. Unseat packer
& blow hole around w/ annular N2 pressure. No fluid
recovered. Reverse circ hole w/ 2% KCl water. POH w/
tbg. Rig Schlumberger & set EZ Drill BP @ 6400.7'KB.
PT to 2500 psi. Held OK. (562 251)

84-06-11 (74) Moreno

RIH w/ overshot.

RIH w/ tbg to 6400'. Rig Howco & blow hole dry w/
N2, POH w/ tbg. Rig Schlumberger & position gun
to shoot 6315-6330'KB. Pressure csg to 1000 psi w/
N2. Gun misfired. Reposition gun and shoot interval
6310-6315' @ 4 SPF. Unable to pull gun free. Bleed
off pressure and gun pulled free. Gun covered w/ mud.
Had small trace of gas at surface. Re-run gun and shoot
interval 6315-6330' @ 4 SPF. Gun blew uphole and
sheared off line leaving gun in hole. Gas blow increased
after shooting 6315-6330'. Flow well up casing on 1/8"
prover plate. Well died off in 1 hour. S.I.

(574 086)

#### .HEL SOUZA #1 - FRESNO COUNTY, CALIFORNIA

(GAMACHE #11)

84-06-12 (75) Moreno

Running Overshot

0700 hrs SITP: 15 psi. Bleed off to 0 psi. Pick up overshot & RiH on 2 3/8 tbg. Tag obstruction @ 6250' KB POH. No fish. Re-run overshot & circ. w/ KCL water to 6314' KB. Recovered mud & sand. POH. No Fish. Recovered strands of wire. RiH w/ barbed spear. POH, no fish (578.813)

84-06-13 (76) Moreno

Running tbg.

0800 hrs no press on WH. RIH with concave mill & mill over fish to cut line. Circ bottoms up. Recover pieces of electric line and gassy fluid. POH w/ tubing. Pick up overshot & RIH w/ 60 jts tbg. S.I. well to change out drilling line.

(581 539)

84-06-14 (77) Moreno

Clean up well.

RIH w/ overshot. Attempt to latch fish without success.

POH & recover pieces of wire. RIH w/ overshot & jar down onto fish. POH w/ fish. RIH w/ Otis "XN" nipple, 1 jt tbg, Otis X nipple & reverse circulation hole w/ 2% KCl water to PBTD @ 6400' to recover mud & sand. Reland tbg @ 6285'. Rig in N₂ & displace hole with nitrogen. Open well to tank @ 2100 hrs. (589 222)

4-06-15 (78) Moreno

Clean up well. 0700 Gas TSTM. SICP 15 psi. Blow down with nitrogen. Recovered trace of mud. Displace 60,000 ft3 nitrogen into formation at 3700 SCF/min at 3800 psi. ISIP 3750 psi bleeding to 3510 psi in 15 mins. Bled down tubing. No flow from tubing when annulus pressure down to 250 psi. No formation gas. Bled off annulus. Unable to lower tubing. Pull 4 joints tubing with 40,000 lbs over string weight. Fill hole with KCI water. Clean out to 63501. Unable to go deeper. PBTD at 6400'. Steady gas to surface while reversing out sand, mud and drill cuttings. Land tubing at 61001. Displace with nitrogen. Inject 10,000 ft³ to formation at 3600 psi. Open on 1 inch choke. No fluid recovered. Tubing plugged off with 400 psi on annulus. Pressure annulus to 2500 psi. No flow. Left tbg open for night. (592 402)

n 1 1077 t			
AHEL SOUZA #1	- FRESNO COU	NTY, CALIFORNIA	(GAMACHE #11)
84-06-16	Moreno	Circulating well.  0700 Tubing dead. SICP 2500 psi. Bled of with gas TSTM. Pull 12 joints at 20,000 over string weights before pulling out of Establish circulation with KCI water. Cirto 6440. Unable to go deeper. Circulate mud and chunks of cement and formation roc with foamed KCI water. Recovered large vosand, chunks of rock and cement from peasx 1" in size. Circulate with foam to 0100 with nitrogen to 0400 hrs. Tubing plugged Shut down. SICP 800 psi.	lbs debris. culate down culate sand, ck. Circulate clumes of mud, size to 1/2" hrs. Circulate
84-06-17 (80)	Moreno	Well shut in. Crew released. 0800 SITP and SICP 800 psi. Cleaned out of from choke and surface lines. Open tubing two inch. Tubing plugged with 400 psi on Circulate with KCI water. Pull 60' with 1 over string weight. Circulate down 6335'. to go deeper. Tubing sticking. Pull 16 j tubing. Secure well. Release rig crew.	on annulus. 0,000 lbs Unable oints
94-06-18 (81)	Moreno	Well shut in. Well shut in. Rig crew released.	(GAMACHE #11)
84-06-19 (82)	Moreno	Pull tubing. Well S.I.	(GAMACHE # 11)
84-06-20 (83)		Remove BOP's.  0800 hrs SITP 290 PSI. SICP 40 PSI. Blee lower tubing to tag fill @ 6355' KB. Rela Rig Howco and spot 6 bbls cement plug acrotubing to 6100' and backwash excess cement 5900' and pressure well to 800 PSI and WOC tubing and tag top of cement plug @ 6155' 75 bbls 10.8#/gal mud to 1500' KB. Pull to Schlumberger and perforate 1399 - 1400' w/Howco and break circ up surface casing. Poset plug from 1400' to 1200' in 9 5/8 and Displace with 23 bbls water and 2 bbls cements of the second perforation witnessed by Califor Commission.	nd tubing @ 6330'.  ss perfs. Pull  Pull tubing to  for 4 hrs. Lower  KB. Displace hole w/  ubing. Rig  4" casing gun. Rig  ump 15 bbls cement to  5 1/2 casings.  ent to set plug from

(634,039)

Commission.

#### AHEL SOUZA #1 - FRESNO COUNTY, CALIFORNIA

84-06-21 (84)

Well plugged and abandoned. (GAMACHE # 11)
Remove BOP's and tubing spool. Cut off 9 5/8 and 5 1/2 casings
6' below ground. Weld plate on casings. Dug out conductor pipe
and fill cellar. Rig out rig. Transfer 231 jts tubing, packers
and nipples to R&R Transport and transfer wellhead and casing
bowl to Gray tool. Clean up location. Well abandoned.
FINAL REPORT. (641,000)

AMERICAN HUNTE	R/SOUZA #1	SW 1/4, SE 1/4, SEC 36, T14S, R12E MDB & M FRESI	O CO CALIFORNIA
83-12-06 (32)	9778 Ft. Lathrop	POH w/DST # 8 Progress: Ni! DST # 7: 9694' - 9777' (L/Lathrop) Times: 10/60 VO: 45 mins - lost packer seat - Misrun Used and rec. 3000' water cushion 1500' gas cut drig. mud. PF 1380 PSI IHP 5461 PSI ISIP 5590 PSI I 5238 Leaking at end. BHT - 227 ° F.	(MONT. 19) (497,424)
83-12-07 (33)	9819 Ft Lathrop	Cut Core # 3 Progress: 41 Ft. CORE #3: Results to follow. DST # 8: 9652' - 9778' (L/Lathrop Used 3000' water cushion, lost packer seat im MISRUN. Rec: 3000' water cushion 793' gassy cut mud. IHP 5498 PSI 5350 Trip gas after 8 mins was 9300 units.	(MONT. 19) (512,923) med. on preflow
83-12-08 (34)	10,000 Ft Lathrop		(MONT. 19) (535,256)
83-12-09 (35)	10,217' TD Lathrop	Rig to log. Progress: 217 Ft. 10,217' - 4 3/4°	(MONT. 19 (546,571)
33-12-10 (36)	10,217 Ft Lathrop	Logging. Progress: Nil	(MONT. 19) (554,104)
33-12-11 (37)	10,217 Ft Lathrop	Side cores. Progress: Nil	(MONT. 19) (564,676)
3-12-12 (38)	10,217 Ft Lathrop	Lay down drill string. Progress: Nil	(MONT. 19) (619,742)

#### WELL SUMMARY REPORT

#### Attachment #3

#### Souza #1 - Fresno County, California

#### ELECTRICAL LOGS

DATE	RUN NO	HOLE DEPTH	LOGS RUN
Drilling Dep	oth - 7332	ft.	
Nov. 19/83	1	145 - 7257'	BHCS
Nov. 19/83	1	1709 - 7298'	DI-SFL
Nov. 19/83	1	145 - 7301'	LD-CN
Drilling Dep	oth - 10.2	17 ft.	
Dec. 8/83	1 2	5900 - 10171'	BHCS
Dec. 8/83	2	1709 - 10137	NGR
Dec. 8/83	2	5900 - 10206	DI-SFL, DI-Linear Correlation Log
Dec. 8/83	2	5900 - 10203	LD-CN, Down Mud Log
Dec. 8/83	2	1709 - 10208	Dipmeter
Dec. 8/83	2	2400 - 10170	Microlog
Dec. 8/83	2 .	1709 - 10165	Electromagnetic Propogation Log
D. 1771 -			
Drilling Dep	_	77 ft.	
Apr. 3/84	1	2400 - 10149	CBL w./Neutron Waveforms
Apr. 3/84	1	2400 - 10149	CBL w./Neutron Variable Density
Apr. 4/84	2	2400 - 10149	CBL(B.I. + Waveforms)
Apr. 4/84	2	2400 - 10149	CBL(Amplitude + VDL)
Apr. 4/84	3	2400 - 10154	Acoustic Caliper Log w./Gamma Ray
Apr. 4/84	3	2400 - 10154	Cement Evaluation Log w./Gamma Ray
Apr. 4/84	4	2400 - 10153	Thermal Neutron Decay Time Log
Apr. 5/84	1	2400 - 10137	CNL
Apr. 10/84	1 (	8000 - 9800 Depth-Driller 9800')	Free Point Indication Log
Apr. 14/84	4	2400 - 10153	TDT Quicklook
Apr. 16/84	3	9195 - 10150	CB-VD Waveforms
Apr. 17/84	3	9196 - 10150	Cement Evaluation Log/Acoustic Calipers

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

FR FXPI ORATION-ITH

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LORATION,	
EXPLO	
HUNTER	
RICAN	
MERI	

SOUZA #1 Wildcat Gel-Chem Drilling Fluid: Field: Well:

California Fresno Sec 36-T14S-R12E Counts: Location: State:

Elevation: 451.8 KB Date: TTCS File #:

#### DEAN-STARK PLUG ANALYSIS

and the comments of the commen	NAMES ADDRESS DATES OF THE PARTY OF THE PART				
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	 n e	TTO IO	Dello 1 Ca	(30/85)	
	OB Perm Porosity Saturation	011 420		(%)	
	Porosity	1	(%)	747	-
	OB Perm	4500 PSI	( PW)	) E	
l	Permeability	Vert	(pa) (		
	Per	Horz	(pe)		
	ŧ	Derth	(feet)		
		o Tamen	NUBBEL		

#### LATHROP FORMATION

RECEIVED	APR 2 3 1984  Division of Oil 8 ~ 15	1/shy	
Sd.vf-ma.sltu.mic Sd.vf-ma.sltu.mic Sd.vf-ma.sltu.mic Sd.vf-fa.sltu.mic	Sd.vf-massltusmic Sd.vf-fa.sltusmic Sd.vf-fa.sltusmic Sd.vf-fa.sltusmic Sd.vf-fa.sltusmic	Sd.vf-masslts.mic Sd.vf-masslts.mic Sd.vf-masslts.mic Sd.vf-masslts.mic Sd.vf-masslts.mic	Sd.vf-#44.sltv.mic Sd.vf-m4.sltv.mic Sd.vfs.lmv.sltv.mic
2.65 2.65 2.65	222 24.65 24.65 25 25 25 25 25 25 25 25 25 25 25 25 25	2.65 2.65 2.65 2.65	2.65 2.72
61.8 68.3 71.6 77.7	72.8 82.0 74.0 78.1	77.0 76.4 81.7 79.3	77.6 79.1 83.2
8 6 4 6 0	00000	00000	0.00
14:5 13:5 13:6	14.0 14.0 15.7	15.5 13.9 15.0 13.7	13.5 13.0
0.36 1.6 0.78 0.39	1.8	છ * #	0.53
2.6 2.8 1.7 0.81	1+3 0+41 0-82 1+0	2.9 2.0 0.07 1.8 0.80	1.2 0.84 <0.01
3.7 3.7 2.0 0.88	32 - 20	0.2.4 0.59 1.56	1.5
9159.0-60.0 9160.0-61.0 9161.0-62.0 9162.0-63.0	9163.0-64.0 9164.0-65.0 9165.0-66.0 9166.0-67.0 9167.0-68.0	9168.0-69.0 9169.0-70.0 9170.0-71.0 9171.0-72.0	9173.0-74.0 9174.0-75.0 9175.0-76.0
- Cl 10 4	N 0 7 @ 0	11 11 14 14 17 17	15

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AMERICAN HUNTER EXPLORATION,LTD Well: SDUZA #1

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DEAN-STARK PLUG ANALYSIS

0 0		Perme	Permeability	OB Perm	Porosity	Satur	aturation	Grain	
Number	(feet)	Horz (ad)	Vert (md)	4500 PSI (md)		0i1 (%)	H20 (%)	Density (sm/cc)	11,001039
,	1			·					terry cares office from colors trains there cares moved moved trains outline trains
22	9176.0-77.0	<0.01	0.01		*	<	,	1	
19	9177.0-78.0		0.26		- 1	) ·	80.00	-	Sd, vfs, las, slts, mic
20	9178.0-79.0	0.56	0.35	•	7101	Q ,	79.9		-
21	9179.0-80.0	0.44		CT +0	12.3	0:0	78.9	2,65	salta.
22	9180.0-81.0	+ c	Ŧ		13.5	0.0	82,8		
1	•	*	7+7		14.3	0.0	79.0	2,65	- 11 31 cut 21. 
23	9181,0-82,0		<i>u</i>						UT## 673 77 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
24	9182.0-87.0	) . 4 c	•		14.4	0.0	76.1	2.64	- 9
	0.00		1.5		14.0	0.0	75.4		
	7163.0-84.0		1,4		α. Μ		- 0	•	VI - 100
26	9184.0-85.0	0	0.78		7 6	? .	6+4/	•	Sdrvf-marslty-mic
27	9185,0-86,0		70		12.0	0.0	77.9	•	/*-B4.6144.8
			•		2.1	0.0	92.9	2.69	Vf-fg,sltum
28	9186.0-87.0	0.31	0.74						
29	9187.0-88.0	0.13	00.0		9	0	-		Sd.vf-fs.slts.mir.cl/lec
30	9188.0-89.0	77.0	) r	7010	15.4	0.0	•		0.00 T.C. 8.00
31	9189.0-00.0	70.0	70.0		11,2	0.0	-		-fd:c]+c.e.
62	0100 0-010	21.0	2 · · · ·		7,2	0.0	-		
;	***	\ \ \ \ \	/0.0		8.9	0.0	93,7	2.67	dyvf-fassltvæ
33	9191,0-92,0	0.84	0.72			6			
34	9192.0-93.0	0.93	07.0		<b>t</b> :	0:0	74.0	•	Sd,vf-fa,sltu,mic
35	9193.0-94.0	0.08		•	. I.	0.0	73.0	•	dryf-faralturmi
36	9194.0-05.0	70	71.0	0.03	11.2	0.0	83.4	•	
37	70-0		 		11,1	0.0	78.2		
i	· · · · · · · · · · · · · · · · · · ·	* -			12,4	0.0	77.5	2,65	
38	9196.0-97.0	0.83	1.0		r	<			
39	9197.0-98.0	1.4	. W		1.21	• •	/6.1	å	Sd.vf-fs,slts,mic
		<b>.</b>	3		3	0.0	9	2+65	Sd, vf-ma, sltu, mic

Pase 2

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Pase 3

DEAN-STARK PLUG ANALYSIS

Sample	Derth (feet)	Permes Horz (md)	Permesbility Horz Vert (md) (md)	OB Perm 4900 PSI (md)	Forosity (%)	Satura Oil (%)	ation H20 (%)	Grain Densits (Sm/cc)	
	9198.0 - 9200.0			     		1		Common existent annies common .	and the third from the the same that the track that the the the the the track
	•								Shale
	9	0.43	71.0			•	-		Drilled Interval
41	9727.0-28.0	2 <	7		12+4	0.0	72.4	2.65	*Sltw.mi
. <b>4</b>	0770 0-70 0	) i	٠,		12.1	0.0	82.7	2,64	
7 7	0.42-0.4277	7) i	4		11.7	0.0	79.7	2,63	
2	0.00-0.7277	1.7	1.7	0.12	12.1	0.0	85.3	2.63	-may of the management of the
44	9730.0-31.0	0.49	0.41		< C *				
45	9731.0-32.0	<			7.51	) )	6.6/	2.64	Sd, f-ms, slty, mic
46	0722 0-22 0	? c			12.1	0	90.8	2.63	* S. L.
47	0777 0-77	7:1	\^.		11.8	0:0	82.8	2.64	
) (	01401040077	0.00	0.05	< 0.01	12,2	0.0	75.0	2,67	
r C	7/34.0-33.0	0.03	0.01		11,1	0.0	87.6	2.69	10 C
40	9735.0-36.0	0.08	70.0		ŗ	4			1
200	9736.0-37.0	0.25	20.0		/+11	<u>ه</u> ه		•	Sd.f-mg.slts.mic
<u> </u>	0.01-0.7279		2 4	10.0	12.9	0.0	84,8	2,66	Sd.f-maysltusmic
6	0.00 0.000	71.0	0,12		12,3	0.0	85.0	-	A. A
, r	0170 0100	n .	1.0		13.0	0.0	84.1		
3	0.04.0.76	4. 30	4		13.1	0.0	84.0	2.62	cassitas
54	9740.0-41.0	4.7	6.3		17 1	<	L	•	
55	9741.0-42.0	7.4	4.4	0	7 .	•	ָ מ	÷	Sd,f-cs,slts,mic
56	9742.0-43.0	. 0	1 0	k0 *0	12.6	0	86.1	•	-carsity, mi
57	9747.0-44.0	> 0	•		13.2	0.0	81.2	4	-cassits,
, o	> L	י נים	7.0		12.4	0.0	82.8	4	
0	7/44.0-43.0	r. C	A.		12,5	0.0	85.8	2,62	casatasmi casaltusmi
29	9745.0-46.0	3.4	64 64	0.17	12.1	0.0	85.4	2.62	Sd,f-cs,sltu,mic

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DEAN-STARK PLUG ANALYSIS

Sample	e Derth r (feet)	Horz (ad)	Permeability Horz Vert (md) (md)	OB Perm 4900 PSI (md)	Porosity (%)	Satur Oil (%)	aturation il H20 %) (%)	Grain Density (sm/cc)	Lithology
								ונ	
09	9746.0-47.0	<u>ر</u>	•		1				Chamber nature orients amount damps banks
61	9747.0-48.0	7	7 -		CV.	0.0	83.2	~o	
62	9748.0-49.0	p (	21			0.0	87.2	_ <	THAN THA
2.7	0111-01111	7.0	0.55		2	0	0 1 0	? `	E (5) TS (5)
9 .	7/47.0-50.0	3.6	34.00		10.5	> <	7117	-	ô
4.	9750.0-51.0	3.0	, C			) .	91/8	2,62	Sdyf-mayslts,mic
		) ;	•		: T	0.0	86.3	2.62	-messeltaser
65	9751.0-52.0	2.5	2.1		,				
99	9752.0-53.0	0.40	***		<b></b>	0.0	•	2.62	SO
29	9753.0-54.0	74.0	) c	0.03	11.6	0.0	86.3	2.65	14 17 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
89	9754.0-55.0	† ¢	75.0		4-4	0.0		2,65	
7	0 L	20.	0.07		10.9	0.0		, ,	
ò	0.90-0.00/4	0.12	90.0				•	/017	dif-ms;slt
ŕ					4	>	•	2.66	Sd,vf-fa,slts,mic,sl/shy
9/	9756.0-57.0	0.12	0.22		` c +				
71	9757.0-58.0	0.77	0.72		0177	0 0	•	2.66	Sdyfassitasmin
72	9758.0-59.0	4	0.07		12.	0	•	2.64	drf-maraltu
73	9759.0-60.0	0.48	27.0	0000	12,5	0.0	81.2	2.64	0, f-84, A-40, 84
74	9760.0-61.0	4.4	) tr		12.2	0.0	83,5	2.64	1011111111111111111111111111111111111
		•	•		12,9	0.0	8,98	2.63	f-mayslty,mi
72	9761.0-62.0	0.55	0.27			•	1		
9/	9762.0-63.0	<0.01	<0.01 <0.01		ν,	0.0	85.00 00.00	2,65	Sd.f.masslts.mic
77	9763.0-64.0	0.50	72.0		5.2	•	90.5	2.66	70.0 mm. 0.00
	9764.0 - 9767.0	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10.5	0.0	94.2	2.63	es e
78		0.07	00.0		4				4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
				10.0	14.0	0.0	88.2	2.66	Sdifaisitainic
79	0.69-0.8976	0.12	90.0		10. st	•	r b	:	
0	9769.0-70.0	0.08	0.10		2 4	•	×	2,65	Sdrfgssltsmic
		<b>!</b>	<b>&gt;</b> • •		0.11	0.0	93.4	2.67	Sd, fs, slts, mic, sl/shy

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DEAN-STARK PLUG ANALYSIS

		0 6 6 6	Paraashi 1 : + :			1.		to seement comments and the contract of	proper telesis primas amenis appeir abbita (reduc) indicas telesis actuas actuas actuas actuas carecas
Samele	Derth (feet)	Horz (md)	Vert (md)	4900 PSI (md)	Forosity (%)	Satur Oil (X)	ation H20 (%)	Grain Density (Sm/cc)	Lithology
<b>∞</b>	9770.0-71.0	4	   °		١,		1	-	Anne inter came these passe that their thin their came took these their
<b>!</b>	9771.0 - 9778.0	9	Z+7		13.9	0	95.5	2,62	Sd,f-cs,slts,mic
82	0-26-0	0.73	0.42	0.07	C	4		,	o t
83	9779.0-80.0	0.50	20.0	•	i	0.0	78:1	2.64	Sd.f.ms.sltv.mic
84	9780.0-81.0	200	? ?		. Y	0.0	79.2	2.64	14.5
	200	707	> • •		13.0	0:0	88.9	2.62	-mayslts,mi
85	9781,0-82,0	4.7	8,8			•			
98	9782.0-83.0	, r	y c	L	۱ ن	0.	80.8	2.63	Sd.f.ms.slts.mic
87	9787.0-04.0	y	۲÷۵	0.55	13.0	0.0	80.4	2.63	# P-845 1.0.m.
0	0.10 0.000	17:0	0.54		12.7	0.0	73.1	~0	
0 (	7/84,0-80,0	0.48	0,35		1	0.0	71.0	١.	**************************************
6 8	9785.0-86.0	0.08	0.05		3 (	>	7117	Ω	0,19,5
			3		-	0	80.7	~0	ts, m
06	9786.0-87.0	0.14	0.07		c	<			
7	9787.0-88.0	0.76	. C. C.		7 1 7	) ·	•	2,65	Sdrfassltssmic
60	9788.0-80 A	) ·	) ·		ż	0.0	•	2.64	Sdyf-maysltwaic
0	0.000	0 !	7.0	0.13	ŝ	0.0	70.3	2.64	A. 0.1-C. 2.
	0.04-0-10-10	00.0	0.48			0.0	•	27.65	
<b>t</b>	7/70.0-91.0	0.04	0.04		10.9	0.0	89.1	2,67	0.) - 82/51/52/81C
O I	0.00	:	•						
? o	0.24-0.1777	0,49	0.60		12,2	0.0	8.9/	2,64	20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° -
0 0	0.52-0-22-0	58.0	0.45		12.1	0.0	in the	4	
, ,	7/73.0-74.0	0.30	0.23	0.03	-	0.0	76.4	2,45	
Ω <b>^</b>	9794,0-95,0	0.13	0.13		0		•	3	ひに置んのこれのことのな
66	9795.0-96.0	0.74	20.0		0 1	0 '	82.4	÷	Sd,fg,sltu,mic
		ı	•		٥, ٩	0.0	Ο~	ģ	vof-fa,sit
100	9796.0-97.0	0.02	0.02		1,8	0.0		r	4
101	9797.0-98.0	0.02	0.02			· ·	0 40	0,470	G:VT-TS:SItuani
					•	>	•	ō	SG:VT-f8:Slts:mic:V/lms

⁺ Horizontal dehydration crack

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DEAN-STARK PLUG ANALYSIS

					***************************************	!		******	
Sample	Derth (feet)	Horz (md)	Horz Vert	0B Perm 4900 PSI (md)	Porosity (%)	Satur Oil (%)	Saturation Oil H20 (%) (%)	Grain Density (Sm/cc)	Lithology
102	0.99-0	1.0	0.62	0.12	13.5		7.5 6.7	1 .	
101	0.0086 - 0.4477	:			<b>,</b>	>	C+7/	7.64	514
2 4	7800.0-01.0	2.9	3.9		1.7.1	<	ר ר		s t
<b>*</b> • •	7801.0-02.0	2,5	1.9		4 6	> ·	/3./	2,63	Sd,f-ma,slts,mic
105	9802,0-03,0	2,4	2,4		12.7	0	74.7	2.64	Sysity
		•	)		4.	0.0	80.7	2.63	19,51ty,mi
106	9803.0-04.0	••• •••	2.2		į				
107	9804.0-05.0	2,2	) ·		13+4	0.0	75.5	2.64	00 - 1 - 000 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
108	9805.0-06.0	2.4.0	1 0 1 + 2 +		7	0:0	~0	2.63	
109	9806.0-07.0	2 6	7000		13,0	0.0	74.0	2.64	
C	\$ 50 0 FC00	, t	0.04	0.15	***	0.0	0.09		「猫も方つ」の「カモー・フ
>	0.80-04/00/	1,9	2,3		· C		2	70.7	SG*f-massalts,mic
					4	>	94.6	2.64	Sd.f-ms.slts.mic
	9808.0-09.0	3,7	α. Μ		,	•			
2	9809.0-10.0	3.6		¢	4	0.0	86.1	2,63	000
113	9810,0-11.0	4.4	` • •	0.43	13.2	0.0	•	2,63	Jet-80.63+6.84
4	9811.0-12.0	) t c	- ; - ;		13,1	0.0	•	2.62	
v	> + + × C+00	7 .	0.46		12.9	0.0		177	1 M 4 5 2 T 5 4 5 M 1
3	7012:0-13:0	0+38	0.27		12,4	2 0	) ·	40.4	S'Slty.mi
7					i	> >	-	7.64	Sdyfsysltsymic
D (	7813.0-14.0	2,1	2,0		•	•	1		
7	9814.0-15.0	0.13	0.13	40	1,7	0 0	89.2	2,62	5d,f-mg,s]ta.mir.al/lan
118	9815.0-16.0	0.27	200	01010		0.0	81.4	2.64	Pasaltu
٥	9816.0-17.0		* C		3,2	0:0	81,7	2.64	
20	9817.0-10		80.0			0.0	91.4	2.47	
,	0187 01178	70.0	0.02		11,2	0.0	92.8	2.67	Similar of strains of the similar of
21	9818.0-19.0	<b>1</b> 07	c. r		•				
122	9819.0-20.0		ų ·	•	•	0.0	79.7	2.62	
		>	<b>*</b>		11.9	0.0	81,3	~0	may site, sit
						,			

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-	to establish designed tradered principal canadas despitate training or								
Same 1e Number	Derth (feet)	Permea Horz (md)	Permeability Horz Vert (md) (md)	0B Perm 4900 PSI (md)	Porosity (%)	Satur Oil (%)	Saturation 0il H20 (%) (%)	Grain Density (sm/cc)	Lithology
	·					-			
123	9820,0-21,0	4,3	4	0 V	*	•		;	
	9821.0 - 9823.0	!	3	•	***	• •	81.2	2,62	Sd:f-ms;slts:mic
124	9823.0-24.0	8.0	6.7		, r	•	1		Sh.sl/sds
125	9824,0-25.0	2.6	, °		7007	0	89.5	2.61	Sd,f-ca,slts,mic
124	0 7C-0 5C00	3 6			13,8	0.0	85,3	2.61	S
) }	0+07-0+5707	97	4.4	ម្	12.8	0.0	88.4	2.60	
127	9826,0-27,0	ν.	4		(	1			
128	0000 CC00	* *	> ·		12.7	0.0	29.8	2.63	
1 0	105/10-2010	0.47	0.62		71,7	0.0	7 00	1 1 2	
129	9828.0-29.0	0.10	60.0			•	/+>0	7.63	Soff-massitusmicssh stks
130	9829,0-30,0	0.04	000		7 . 7 . 7	o .	91.0	2,65	Sdyfaysltymic
131	9830.0-11.0	) (	•		11.2	0.0	91.9	2,66	30 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
<b>;</b> <b>:</b>	200	2	01	0.51	12.2	0.0	8.06	2.61	
132	9831.0-32.0	0.0	٠ د		1				
133	9832.0-33.0	2,4	2 4 6		70 ·	0.0	92.4	2.62	Sd,f-ma,slts,min
134	0 4 Z = 0 Z Z B O	r «	24.0		12.0	0.0	88.0	2,64	SOUTH THE STATE OF
- 1	O++0	01.0	80.0		11,7	0.0	0.26	27.6	
0.7	7834.0-35.0	0.13	0,12		19.0		) r		
136	9835.0-36.0	50.0	70.0		> ! • •	•	/+/0	2.65	Sdrfgrsltsmic
		3	2		11.5	0	92.9	2.67	Sd,vf-fa,slty,mic
137	9836.0-37.0	2.1	2,2	0.11	10.4	<	Č	!	
138	9837,0-38.0	0.41	72 0		7 1 7 7	>	Ď	2.63	Sd,f-ma,sltu,mic
	i i i	•	2		11.5	0.0	83,4	2,65	Sd:f-ms;slts;mic

Page 7



TICKET NO. 58786600 14-DEC-83 BAKERSFIELD

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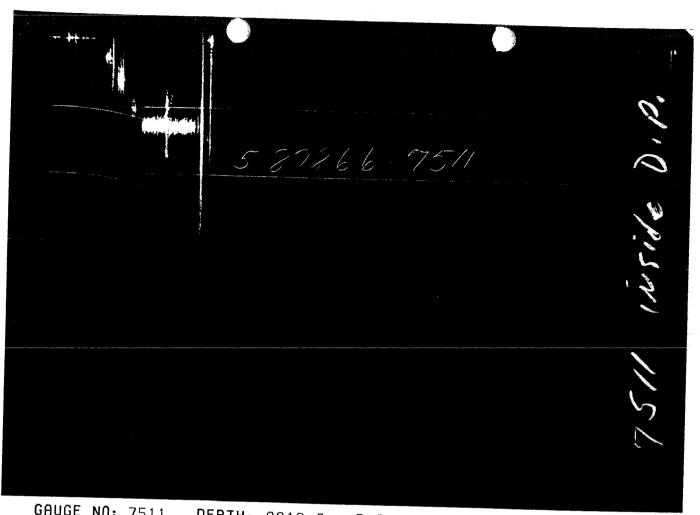
DIVISION OF OIL & GAS

FORMATION LESTING SERVICE REPORT

TESTED INTERVAL AMERICAN HUNTER EXPLOR

MAN

EST NO.

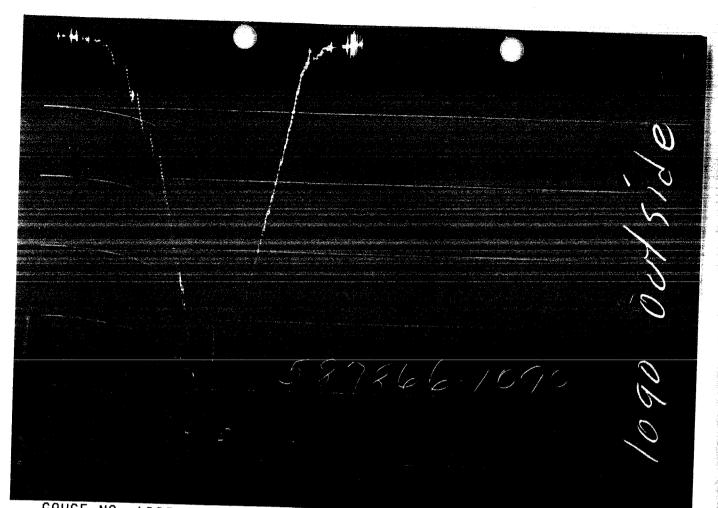


<u> </u>	OL NO: 7511 DEPTH: 9618.0	_ BLANKED OFF:_	NO HOUR OF CLOCK:	21
ID	DESCRIPTION	PRESSURE	TIME	
A	INITIAL HYDROSTATIC	REPORTED CALCULATED	REPORTED CALCULATED	PE
В	FINAL HYDROSTATIC			

21866 1641 Mrs. 145

GAUG	E NO: 641 DEPTH: 9634.0	BLANK	ED OFF:_	NO HOUR OF O	
ID	DESCRIPTION	PRES	SURE	NO HOUR OF CL	
A	INITIAL HYDROSTATIC	FEPORTED   5469	CALCULATED 5419.4	REPORTED   CALCULA	TYPE TYPE
В	FINAL HYDROSTATIC	5250	5419.4		-

24 E



		E NU: 1090 DEPTH: 9770.0	BLAN	KED OFF:Y	ES HOUR OF CLOCK	
	ID	DESCRIPTION	PRE	SSURE	TIME	
	A	INITIAL HYDROSTATIC	REPORTED	CALCULATED	REPORTED CALCULATED TY	PE
f	В		5455	5484.4		
L		FINAL HYDROSTATIC	5308	5484.4		-
						1

GAUG	GE NO: 7512 DEPTH: 9774.0				
ID	DESCRIPTION		KED OFF:Y	ES HOUR C	OF CLOCK: 24
A	INITIAL HYDROSTATIC	KEPORTED	SSURE CALCULATED	IME	
	FINAL HYDROSTATIC	5498	5485.0		CALCULATED TYPE
	111110	5350	5485.0	-	

EQUIPMENT & HOLE DATA	AMERICAN CONTRACTOR OF THE MAIN OF THE MAI
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TICKET NUMBER: 58786600
	DATE: 12-6-83 TEST NO: 8
GROSS TESTED FOOTAGE:	The state of the s
ALL DEPTHS MEASURED FROM: KELLY BUSHING CASING PERFS. (ft): HOLE OR CASING SIZE (t.)	TYPE DST: OPEN HOLE
ELEVATION (ft): 8.750  TOTAL DEPTH (ft): 0	HALLIBURTON CAMP: BAKERSFIELD
TOTAL DEPTH (ft): 0  PACKER DEPTH(S) (ft): 9545 0000	DIMENSI TELU
PACKER DEPTH(S) (ft): 9646, 9652 FINAL SURFACE CHOKE (1)	TESTER: R.D. LYONS
	- 8
1 1944 011011 1161	
MUD WEIGHT (1b/gal): 0.750  MUD VISCOSITY (see): 10.40	WITNESS: WALT ZURBA
120 @ 9777 0 £4	MONTGOMERY
SOURCE SOURCE	SAMPLER DATA
SOURCE RESISTIVITY CHLORIDES	Psig AT SURFACE:
ppm	cu.ft. OF GAS:
B OF	cc OF OIL:
0 ог	cc OF WATER:
6 00	cc OF MUD:
	TOTAL LIQUID cc:
I III UKULHKKIIN PPODEDTIES T	
OIL GRAVITY (OAPI):  GAS/OIL RATIO (cu.ft. DEC bb))	CUSHION DATA
GAS/OIL RATIO (cu.ft. per bbl):°F GAS GRAVITY:	WATER (SEET)
RECOVERED:	3000.0 8.33
3000 FEET OF WATER CUSHION	A S
393 FEET OF DRILLING MUD	14 H
	滿
	MERSURED FROM TESTER VALVE
REMARKS:	是一
LOST PACKER SEAT	
	•

-- 140

TYPE & SIZE MEASURING DEVICE: TICKET NO: 58786600 SURFACE PRESSURE PSI GAS RATE MCF CHOKE SIZE LIQUID RATE BPD TIME REMARKS 12-6-83 0423 OPENED HYDROSPRING 0424 NO PACKER SEAT, PULLED LOOSE

		_		TICK	ET NO. 5878660
		0.0.	I.D.	LENGTH	DEPTH
1	ORILI PIPE				
50	DRILL PIPE	5.000	4.276	9338.0	
3	IMPACT REVERSING SUB	6.000	3.000	1.0	9339.0
5	DRILL COLLARS	6.000	3.000	273.0	-
11	CROSSOVER	6.000	3.000	0.9	
80	119	5.750	2.250	4.6	
13	AP RUNNING CASE	5.000	3.000	4.2	9618.0
60	DUAL CIP SAMPLER.	5.000	0.750	7.0	
80	HYDROSPRING TESTER	5.000	0.750	5.0	9629.0
15	AP RUNNING CASE	5.000	3.000	4.2	9634.0
16	<b>13</b>	5.000	1.750	5.0	
	VR SAFETY JOINT	5.000	1.000	2.8	
70	OPEN HOLE PACKER	7.750	1.530	5.8	9646.0
70	OPEN HOLE PACKER	7.750	1.530	5.8	9052.0
20	FLUSH JOINT ANCHOR			4.∠	
81 0	BLANKED-OFF RUNNING COST	.000	2.370		
81 0	BLANKED-OFF RUNNING COOF	.000		4.6	9770.0
82	TEMPERATURE RUNNING CO.	.000		3.9	9774.0
<u> </u>	5.	.000	2.440	4.1	9777.0
T	OTAL DEPTH				
					9778.0

#### 587866- TE 68

#### L AWALYSIS

Indicated Flow Capacity

$$kh = \frac{1637 Q_g T}{m}$$

md-ft

Average Effective Permeability

$$k = \frac{kh}{h}$$

md

Skin Factor

$$S = 1.151 \left[ \frac{m(P^*) - m(P_f)}{m} - LOG \frac{kt}{\phi \mu c_f r_w^2} + 3.23 \right] -$$

Damage Ratio

$$DR = \frac{m(P^*) - m(P_f)}{m(P^*) - m(P_f) - 0.87 \text{ mS}}$$

Indicated Flow Rate (Maximum)

$$AOF_1 = \frac{Q_g m(P^*)}{m(P^*) - m(P_f)}$$

MCFD

Indicated Flow Rate (Minimum)

$$AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_f)}}$$

MCFD

Approx. Radius of Investigation

$$r_i = 0.032 \sqrt{\frac{kt}{\phi \mu c_t}}$$

ft



Tr.

TICKET NO. 58786500 15-DEC-83 BAKERSFIELD

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FORMATION TESTING SERVICE REPORT

D19-21924 TEST NO. CHANNEY RANCH TESTED INTERVAL HUNTER EXPLORATION LIMITED CALIFORNIA

LEASE NAME

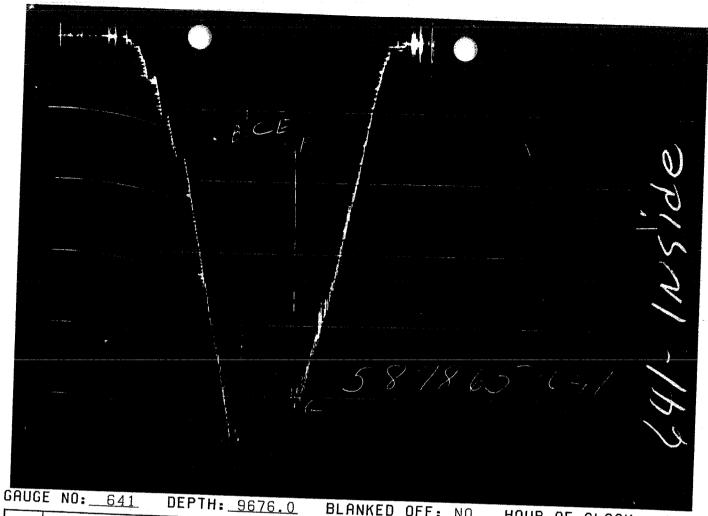
NO.

9778

587865-7511

pic

GAUGE NO: 7511 DEPTH: 9660.0 BLANKED OFF: NO HOUR OF CLOCK: 24 ID DESCRIPTION **PRESSURE** TIME
REPORTED | CALCULATED REPORTED CALCULATED TYPE A INITIAL HYDROSTATIC INITIAL FIRST FLOW В 1323 1294.2 FINAL FIRST FLOW C 10.0 10.6 F 2021 1294.2 INITIAL FIRST CLOSED-IN C 2021 1294.2 FINAL FIRST CLOSED-IN D 60.0 59.4 C 1339.1 E INITIAL SECOND FLOW 1339.1 FINAL SECOND FLOW F 45.0 39.1 F 1508.7 FINAL HYDROSTATIC G



BLANKED OFF: NO HOUR OF CLOCK: 24 ID DESCRIPTION PRESSURE TIME REPORTED | CALCULATED REPORTED | CALCULATED TYPE INITIAL HYDROSTATIC 5543 5463.4 INITIAL FIRST FLOW В 1345 1387.6 C FINAL FIRST FLOW 10.0 10.6 F 1345 1381.7 INITIAL FIRST CLOSED-IN C 1345 1381.7 FINAL FIRST CLOSED-IN D 60.0 59.4 С 5561 5575.9 INITIAL SECOND FLOW Ε 1364 1399.4 FINAL SECOND FLOW F 45.0 39.1 F 1530 1580.2 G FINAL HYDROSTATIC 5177 5132.4

GAUGE NO: 1090 DEPTH: 9770.0 BLANKED OFF: YES HOUR OF CLOCK:

	DEPTH: 9770.0	BLAN	KED OFF:Y	ES HOUR	OF CLOCK	I (* 24
ID	DESCRIPTION	PRE	SSURE		ME CEGEN	T
A	INITIAL HYDROSTATIC	REPORTED	CALCULATED	REPORTED	CALCULATED	TYPE
		5455	5463.4			
В	INITIAL FIRST FLOW	1371	1469.4			
C	FINAL FIRST FLOW	1371	1415.2	10.0	10.6	F
С	INITIAL FIRST CLOSED-IN	1371	1415.2			
D	FINAL FIRST CLOSED-IN	5566	5586.4	60.0	59.4	С
E	INITIAL SECOND FLOW	1389	1434.7			
F	FINAL SECOND FLOW	1575	1625.8	45.0	39.1	F
G	FINAL HYDROSTATIC	5235	5136.2			
				nort entered the second		

DESCRIPTION  INITIAL HYDROSTATIC  INITIAL FIRST FLOW	REPORTED   5461	SSURE CALCULATED 5463.5	7	OF CLOCK ME CALCULATED	TYPE
	5461			<del></del>	TYPE
		5463.5			
INITIAL FIRST FLOW			i		
	1380	1476.2			
FINAL FIRST FLOW	1380	1422.1	10.0	10.6	F
INITIAL FIRST CLOSED-IN	1380	1422.1		**	
FINAL FIRST CLOSED-IN	5590	5585.9	60.0	59.4	С
INITIAL SECOND FLOW	1398	1443.8	100000000000000000000000000000000000000		
FINAL SECOND FLOW	1586	1633.7	45.0	39.1	F
FINAL HYDROSTATIC	5238				
	INITIAL FIRST CLOSED-IN FINAL FIRST CLOSED-IN INITIAL SECOND FLOW FINAL SECOND FLOW	INITIAL FIRST CLOSED-IN 1380 FINAL FIRST CLOSED-IN 5590 INITIAL SECOND FLOW 1398 FINAL SECOND FLOW 1586	INITIAL FIRST CLOSED-IN 1380 1422.1 FINAL FIRST CLOSED-IN 5590 5585.9 INITIAL SECOND FLOW 1398 1443.8 FINAL SECOND FLOW 1586 1633.7	INITIAL FIRST CLOSED-IN 1380 1422.1  FINAL FIRST CLOSED-IN 5590 5585.9  INITIAL SECOND FLOW 1398 1443.8  FINAL SECOND FLOW 1586 1633.7	INITIAL FIRST CLOSED-IN 1380 1422.1  FINAL FIRST CLOSED-IN 5590 5585.9  INITIAL SECOND FLOW 1398 1443.8  FINAL SECOND FLOW 1586 1633.7

EQUIPMENT & HOLE DATA	A PROPERTY COME OF THE PROPERTY OF THE PROPERT
FORMATION TESTED:	TICKET NUMBER: 58786500
,   NL   FMT († t):	DATE: 12-5-83 TEST NO: 7
GROSS TESTED FOOTAGE: 84.0 ALL DEPTHS MEASURED FROM: KELLY BUSHING	TYPE DST: OPEN HOLE
CASING PERFS. (ft):	OPEN HULE
more on chains alke lines a zer	HALLIBURTON CAMP:
IELEVHIIIN   f +   -	BAKERSFIELD
TOTAL DEPTH (ft): 9778.0  PACKER DEPTH(S) (ft): 9688. 9694  FINAL SURFACE CHOKE (t.)	D. D. L. VOUG
PHCKER DEPTH(\$) (ft): 9688, 9694	TESTER: R.U. LYONS
1. THE SOMETICE CHOKE I (D):	***************************************
DOTTON HOLE CHUNE (tn): 0 750	WITNESS: WALT ZURBA
MUD WEIGHT (lb/gal): 10.40	TATRESS.
MUD VISCOSITY (sec): 38  ESTIMATED HOLE TEMP. (°F):	DRILLING CONTROLL
ACTUAL HOLE TEMP. (°F): 227 @ 9778.0 ft	DRILLING CONTRACTOR:  MONTGOMERY
FLUID PROPERTIES FOR	HONTOUNERY
RECOVERED MUD & WATER	SAMPLER DATA
SOURCE RESISTIVITY CHLORIDES	
	Pstg AT SURFACE:
6 of	cu.ft. OF GAS:
0 of DDM	cc OF OIL:
— 6 Ppm	cc OF WATER:
	cc OF MUD:
	TOTAL LIQUID cc:
HYDROCARBON PROPERTIES	CUSHION DATA
TUIL GRAVITY (OAPI).	TYPE AMOUNT WEIGHT
GAS/OIL RATIO (cu.ft. per bbl):	WATER (FEET) 3000.0 8.33
RECOVERED:	
	Σ,,,
3000 FEET OF WATER CUSHION 1500 FEET OF MUD	L KR
1 22 1 31 1700	Z ED
	SSUR
	MEASURE
REMARKS:	
LOST PACKER SEAT DURING SECOND FLOW PERIOD.	11
	1
	1 #

TIME	CHOKE SIZE	SURFACE PRESSURE	GAS RATE	riguid	TICKET NO: 58786500
12 5 00	7.2	PS1	MCF	RATE BPD	REMARKS
12-5-83					
0225	ВН				OPENED LIVER
0227					OPENED HYDROSPRING
0230					FAINT BLOW
0235			-		LIGHT BLOW
0335					CLOSED IN
0340					OPENED
0350					FAINT BUBBLE
0400					FAINT BLOW
1420					FAINT BLOW
					PACKER SEAT GAVE WAY
425					CLOSED DCIP SAMPLER
					PULLED LOOSE
	,				
_	:	ŧ	:		
:		:	:	:	
	ż			4	- Landarian de la companya de la comp La companya de la co
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			1	1	

TICKET NO: 58786500

CLOCK NO: 28224 HOUR: 24



log t + At

							_	
	R	EF	MINUTES	PRESSURE	ΔP	<u>1×Δt</u> t+Δt	$\log \frac{t + \Delta t}{\Delta t}$	1
	`			FIRST	FLOW			
	B C	1	0.0 10.6	1294.2 1294.2	0.0			
			F.	IRST CL	OSED-IN	I		
-	C D	1	0.0 59.4	1294.2 1339.1	45.0	9.0	0.071	
				SECOND	FLOW			
	E F	23 <b>4</b> 56789	0.0 5.0 10.0 15.0 20.0 25.0 30.0 35.0 39.1	1339.1 1361.2 1368.2 1398.1 1422.3 1438.0 1461.0 1480.8 1508.7	22.1 7.0 29.8 24.2 15.7 23.1 19.8 27.9			

\$ E R V I			DE	PTH:	966	50.0	and the second s
<u>t + Δτ</u> Δτ	REF	MINU	TES	PRESSU	JRE	ΔP	1×Δt
		and the second second	The second second	and an account of the second o		The consequence of the consequen	Ι (ΤΔ)
71							

11CKET NO: 58786500

CLOCK NO: 26221 HOUR: 24



GAUGE NO: 641

DEPTH: 9676.0

RE	F	MINUTES	PRESSURE	ΔP	<u>t×∆t</u> t+∆t	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔΡ	t×Δt	<u></u>
			FIRST	FINV						Δ.Γ	<u>1×∆1</u> 1+∆1	l og t
_			1 21(0)	1 L U #								
В	1	0.0	1387.6									
	2	2.0	1387.2	-0.4								
	3	4.0	1384.3	-3.0								
	4	6.0	1382.8	-1.5								
	5	8.0	1382.8	0.0								
	6 7	10.0	1382.8	0.0			1					
	,	10.6	1381.7	-1.1								
		F:	IRST CL	OSED-IN								
•	1	0.0	1381.7			l						
	2	5.0	4049.5	2007.0		I	1		•			
	3	10.0	4555.2	2667.8	3.4	0.492	İ					
	4	15.0	4865.1	3173.5 3483.4	5.1	0.313	l					
	5	20.0	5064.0	3682.3	6.2	0.231	1					
	6	25.0	5196.9	3815.2	6.9	0.184						
	7	30.0	5295.6	3913.9	7.4	0.153	l					
	8	35.0	5368.4	3986.7	7.8	0.131	ł					
	9	40.0	5424.3	4042.6	8.1 8.4	0.114	l					
	10	45.0	5473.1	4091.4	8.6	0.102						
	1 1	50.0	5514.8	4133.1	8.7	0.091 0.083						
	12	55.0	5550.3	4168.6	8.9	0.003						
1	13	59.4	5575.9	4194.2	9.0	0.078						
		;	SECOND	FLOW								
	i	0.0	1399.4									
	2		1403.1	3.7								
	3	10.0	1413.5	10.4		11						
	4	15.0	1459.1	45.7								
	5	20.0	1482.1	22,9		11						
	6	25.0	1507.4	25.3								
•	7	30.0	1522.4	15.0		11						
i	ô	35.ō	1542.9	20.5		11						
•	u	च्छा १	1500 0			÷ =						

REMARKS:

TICKET NO: 58786500

CLOCK NO: 26228 HOUR: 24



GAUGE NO: 1090

DEPTH: 9770.0

RE	F	MINUTES	PRESSURE	ΔP	<u>1×∆t</u> 1+∆t	$log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	1×Δ1 1 + Δ1	logt
			FIRST	FINV			The same of the sa			and the state of t	<u> </u>	100-
<b></b>				1 20#								
В	1	0.0	1469.4				' <b>I</b>					
	2	2.0	1438.6	-30.8		į	1					
	3	4.0	1421.7	-16.9		İ	1					
	4	6.0	1418.4	-3.3			ļ					
	5	8.0	1418.0	-0.4		į	1					
_	6	10.0	1415.4	-2.6		I	i					
C	7	10.6	1415.2	-0.2								
		F	IRST CL	OSED-IN	ļ							
3	1	0.0	1415.2									
	2	5.0	4198.0	2782.8	<b>3.4</b>	0.496	I					
	3	10.0	4642.9	3227.7	5.1	0.313	1					
	4	15.0	4912.2	3496.9	6.2	0.232	1					
	5	20.0	5089.2	3673.9	6.9	0.184						
	6	25.0	5215.6	3800.4	7.4	0.153						
	7	30.0	5312.1	3896.9	7.8	0.131	1					
	8	35.0	5382.2	3967.0	8.1	0.131						
	9	40.0	5441.0	4025.8	8.4		1					
1	10	45.0	5489.2	4073.9		0.102						
1	1 1	50.0	5529.0	4113.8	8.5 8.7	0.092						
1	12	55.0	5563.4	4148.2	8.7 8.9	0.083						
	3	59.4	5586.4	4171.2	9.0	0.076						
					J.V	0.071						
			SECOND	rLOW								
	İ	o.ō	1434.7									
	2	5.0	1435.1	0.4								
;	3	10.0	1443.2	8.2								
	4	15.0	1495.4	52.1		11						
	5	20.0	1511.1	15.8								
	6	25.0	1548.1	36.9		11						
	7	30.0	1560.5	12.4		11						
	8	35.0	1579.6	19.1								
9	9	39.1	1625.8	46.2								
						11						
						- 11						
						- 11						
												İ
												-
_						L						



REF	K NO:		HOUR: 24		HALL	IVICE:		GAUGE NO: DEPTH: 97			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	MANUIES	PRESSURE	ΔΡ	<u>t ×∆t</u> t +∆t	$log \frac{1+\Delta t}{\Delta t}$	REF	MINUTE	S PRESSURE	ΔP	<u> </u>	
B 1	0.0	1476.2	「 FLO₩				on manufacture and subsequently constructs and only			1+Δ1	log
2 3 4	2.0 4.0	1448.3 1430.5									
5 6	6.0 8.0	1425.1 1424.9	-5.4 -0.2				÷				
C 7	10.0	1421.5 1422.1	-3.4 0.6								
•	F	IRST CL	OSED-IN								
C 1	0.0 5.0	1422.1 4047.3	2625.2	<u> </u>							
3 4	10.0 15.0	4552.1 4869.2	3130.0 3447.1	3.4 5.1 6.2	0.496 0.313						
5 6 7	20.0 25.0	5066.7 5200.9	3644.6 3778.8	6.9 7.4	0.232 0.184 0.153						
8 9	30.0 35.0 40.0	5298.0 5375.0	3875.9 3952.9	7.8 8.1	0.153						
10	45.0 50.0	5436.1 5485.2	4014.0 4063.1	8.4	0.102						
12 13	55.0	5525.9 5562.2 5585.9	4103.8 4140.1	8.7 8.9	0.083 0.076					-"	
			4163.8	9.0	0.071						
i		ECOND !	FLOW								
i 2 3	5.Q j	1443.8 1439.9	-3.9								
4	15.0 ₁	502.4	11.8 50.7								
6 7	25.0 1	523.4 555.1	21.0 31.6								
8 9	35.0 1	574.0 583.0	18.9 9.0								
3	39.1 1	633.7	50.7								

REMARKS:

s 6		* **	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	TICK	ET NO. 5878
		0.0.	I.D.	LENGTH	DEPTH
E					
Ê	DRILL PIPE		4.276	9393.0	
	IMPACT REVERSING SUB	6.000	3.000	1.0	9382.0
Â	DRILL COLLARS	6.000	3.000	273.Ó	
	CROSSOVER	6.000	3.000	0.9	
	HANDLING SUB & CHOKE ASSEMBLY	5.750	2.250	4.6	
8	AP RUNNING CASE	5.000	3.000	4.2	9660.0
$H \rightarrow H$	DUAL CIP SAMPLER	5.000	0.750	7.0	
	HYDROSPRING TESTER	5.000	0.750	5.0	9671.0
HH	AP RUNNING CASE	5.000	3.000	4.2	9676.0
	JAR	5.000	1.750	5.0	
L V	VR SAFETY JOINT	5.000	1.000	2.8	
H11	OPEN HOLE PACKER	7.750	,1.530	5.8	9688.0
	OPEN HOLE PACKER	7.750	1.530	5.8	9694.0
	ANCHOR PIPE SAFETY JOINT	5.000	1.250	4.2	
$\widetilde{\square}$	FLUSH JOINT ANCHOR	5.000	2.370	65.0	
0	BLANKED-OFF RUNNING CASE	5.000		4.5	••
0	BLANKED-OFF RUNNING CASE	5.000		4.6	9770.0
	TEMPEROTURE PUNITAGE COST	5.000		3.9	9774.0
		4 0 0		4.1	9778.0
T	OTAL DEPTH				
					9778.0

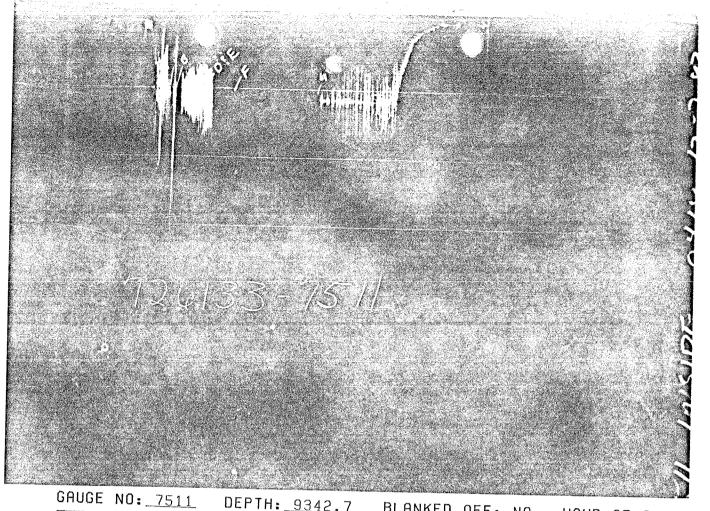


TICKET NO. 72613300
13-DEC-83
BAKERSFIELD
019-21924

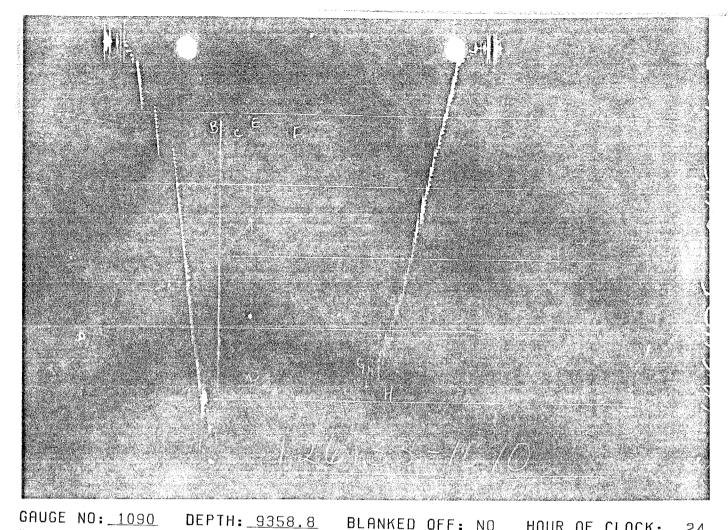


DIVESION OF OIL & GAS COALINGA

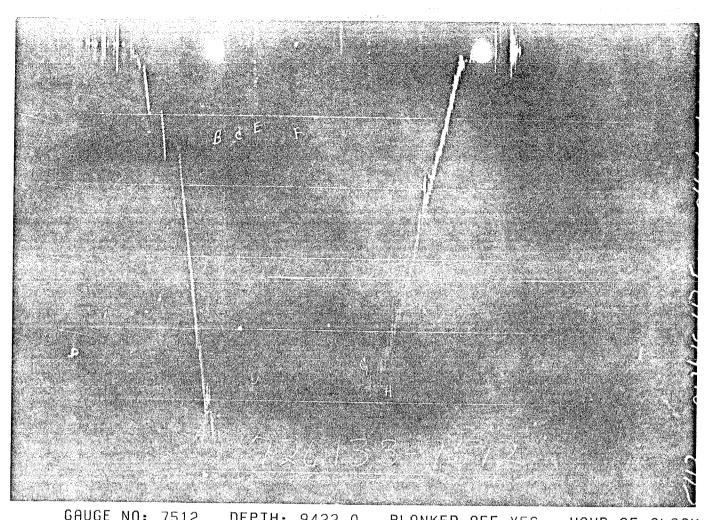
FORMATION TESTING SERVICE REPORT



	DEPIH: 9342.	BLANKED OFF:	NO HOUR	OF CLOCK	K - 2
ID	DESCRIPTION	PRESSURE	TI		<del></del>
A	INITIAL HYDROSTATIC	REPORTED CALCULATED	REPORTED	CALCULATED	TYP
В	INITIAL FIRST FLOW	1088.8			<u> </u>
С	FINAL FIRST FLOW	1096.7	11.0	11.1	F
С	INITIAL FIRST CLOSED-IN				
D	FINAL FIRST CLOSED-IN	1096.7	60.0	59.8	C
F		1103.9		20.0	
-	INITIAL SECOND FLOW	1103.9			<del> </del> -
F	FINAL SECOND FLOW	1122.5	72.0	73.0	F
F	INITIAL SECOND CLOSED-IN	1122.5			
G	FINAL SECOND CLOSED-IN	1139.3	180.0	179.0	С
Н	FINAL HYDROSTATIC	1100.0			
				ļ	



BLANKED OFF: NO HOUR OF CLOCK: 24 ID PRESSURE DESCRIPTION TIME REPORTED | CALCULATED TYPE REPORTED CALCULATED A INITIAL HYDROSTATIC 5548 5344.7 В INITIAL FIRST FLOW 1260 1232.5 11.0 11.1 F С FINAL FIRST FLOW 1260 1232.5 C INITIAL FIRST CLOSED-IN 1260 1232.5 60.0 59.8 С D FINAL FIRST CLOSED-IN 4499 4457.1 Ε INITIAL SECOND FLOW 1278 1254.4 72.0 73.0 F F FINAL SECOND FLOW 1278 1243.0 F INITIAL SECOND CLOSED-IN 1278 1243.0 180.0 179.0 C G FINAL SECOND CLOSED-IN 4683 4661.7 H FINAL HYDROSTATIC 5419 5086.0



0100	E NU: 7512 DEPIH: 9422.0	_ BLANI	KED OFF:Y	ES HOUR	OF CLOCK	: 24
ID	DESCRIPTION	PRESSURE REPORTED CALCULATED		TIME REPORTED   CALCULATED		TYPE
A	INITIAL HYDROSTATIC	5535	5390.6	Ner GRIEB	CHEESCHIES	
В	INITIAL FIRST FLOW	1287	1297.6			
С	FINAL FIRST FLOW	1287	1271.2	11.0	11.1	F
С	INITIAL FIRST CLOSED-IN	1287	1271.2		• -	
D	FINAL FIRST CLOSED-IN	4460	4473.7	60.0	59.8	С
E	INITIAL SECOND FLOW	1287	1304.9			
F	FINAL SECOND FLOW	1287	1274.5	72.0	73.0	F
F	INITIAL SECOND CLOSED-IN	1287	1274.5			
G	FINAL SECOND CLOSED-IN	4664	4683.9	180.0	179.0	С
Н	FINAL HYDROSTATIC	5424	5127.2			~··

**PRESSURE** TIME ID DESCRIPTION TYPE REPORTED | CALCULATED REPORTED | CALCULATED A INITIAL HYDROSTATIC. 5543 5405.9 В INITIAL FIRST FLOW 1290 1289.1 11.0 11.1 F C FINAL FIRST FLOW 1272.5 1290 C INITIAL FIRST CLOSED-IN 1290 1272.5 60.0 59.8 C D FINAL FIRST CLOSED-IN 4481 4496.0 INITIAL SECOND FLOW E 1272 1300.2 72.0 F 73.0 F FINAL SECOND FLOW 1272 1275.8 F INITIAL SECOND CLOSED-IN 1272 1275.8

4540

5433

BLANKED OFF: YES

4701.7

5141.0

HOUR OF CLOCK: 24

C

179.0

180.0

DEPTH: 9425.9

GAUGE NO: 641

G

Η

FINAL SECOND CLOSED-IN

FINAL HYDROSTATIC

Femology - In the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the	
EQUIPMENT & HOLE DATA	TICKET NUMBER: 72613300
FORMATION TESTED:	DOTE 12 2:02 TECT NO. C
NET PAY (ft):	DATE: 12-2-83 TEST NO: 6
GROSS TESTED FOOTAGE: 53.4 ALL DEPTHS MEASURED FROM: KB	TYPE DST: OPEN HOLE
CASING PERFS. (ft):	
HOLE OR CASING SIZE (tn): 8.750	Interruption Citili
ELEVATION (ft):	BAKERSFIELD
TOTAL DEPTH (ft): 9433.0	
PACKER DEPTH(S) (ft): 9374, 9380	TESTER: DUNLAP KOUTROULIS
FINAL SURFACE CHOKE (in):	
BOTTOM HOLE CHOKE (in): 0.750	WITNESS: ZURBA
MUD WEIGHT (15/cal).	
MUD VISCOSITY (sec): 46	,
LEDITUHIED HATE LEWA. (at): 550	DIVILLING CONTINUCTOR:
ACTUAL HOLE TEMP. (°F): Ø ft	MONTGOMERY
FLUID PROPERTIES FOR RECOVERED MUD & WATER SOURCE RESISTIVITY CHLORIDES	SAMPLER DATA Pstg AT SURFACE:
6 ppm	cu.ft. OF GAS:
6 ppm	cc OF OIL:
	cc OF WATER:
	cc OF MUD:
8 °Fppm	TOTAL LIQUID cc:
HYDROCARBON PROPERTIES  OIL GRAVITY (°API): @ °F  GAS/OIL RATIO (cu.ft. per bbl):  GAS GRAVITY:	CUSHION DATA TYPE AMOUNT WEIGHT WATER (FT.) 2700.0 8.33
RECOVERED:	
2700' OF CUSHION	P.R.O.M.
150' OF DRILLING MUD ABOVE CU	JSHION G
	1 1110

#### **REMARKS:**

CLOCK ON TE-68 SLIPPED AND WOULD NOT RECORD. CHART NOT SENT IN FOR PROCESSING.

TYPE & SIZE MEASURING DEVICE: TICKET NO: 72613300 SURFACE GAS LIQUID CHOKE REMARKS PRESSURE PSI TIME RATE RATE SIZE MCF BPD 12-2-83 0530 MADE UP TOOLS 0700 RAN IN HOLE 1045 1/4"BH OPENED TOOL WITH A FAINT BLOW FOR 2 MINUTES, THEN DIED. 1056 CLOSED TOOL 1156 1/4"BH OPENED TOOL WITH NO BLOW 1308 CLOSED TOOL 1608 CLOSED BY-PASS AND PULLED OUT OF HOLE. `a.___

TICKET NO: 72613300

CLOCK NO: 9661 HOUR: 24



GAUGE NO: 1090

DEPTH: 9358.8

						Name and Address of the Owner, or	B E	FVI second
RI	EF	MINUTES	PRESSURE	ΔΡ	$\frac{t \times \Delta t}{t + \Delta t}$	lo	·9 <u>t + Δt</u>	
			FIRST	FLOW				
В	1	0.0	1232.5					
l	5	2.0	1234.0	1.5				
	3 4	4.0 6.0	1239.0	5.0				
1	5	8.0	1239.0 1239.0	0.0 0.0				П
l	6	10.0	1234.1	-4.8				
C	7	11.1	1232.5	-1.7				
		F	IRST CL	OSED-IN	٧			
C	1	0.0	1232.5					
	2	4.0	1601.1	368.6	2	9 0	.580	Ш
	3	8.0	1939.7	707.2	4.		.378	П
ĺ	4	12.0	2285.4	1052.9	5.		.286	11
	5	16.0	2635.4	1402.9	6.		.229	
	6	20.0	2930.4	1697.9	7.		.192	
	7	24.0	3217.6	1985.1	7.		.165	Ш
	8 9	28.0 32.0	3440.2	2207.7	8.		.145	
	10	36.0	3644.1 3812.0	2411.6 2579.6	8.	_	.130	П
	11	40.0	3951.3	2718.8	8. 8.		.117	П
	12	44.0	4084.7	2852.2	8.		.098	П
	13	48.0	4190.8	2958.3	9.		.091	
	14	52.0	4291.5	3059.1	9.		.084	
D	15	56.0	4380.3	3147.8	9.		.079	
ט	16	59.8	4457.1	3224.6	9.	4 0	.074	
			SECOND	FLOW				
Ε	1	0.0	1254.4					1
	2	10.0	1255.8	1.5			l	1
	3	20.0	1251.4	-4.5				I
	4	30.0	1242.5	-8.9			ı	1
	5	40.0	1240.8	-1.7			- 1	
	6 7	50.0 60.0	1243.8	3.0				
	8	70.0	1243.8 1243.8	0.0				İ
F	9	73.0	1243.0	-0.7				
		SE	COND CL	OSED-IN	1			
F	1	0.0	1243.0				1	
•	5	10.0	1593.9	350.8	9.0	) n	973	
	3	20.0	1947.1	704.1	16.1		717	
	4	30.0	2313.3	1070.3	22.1		580	
	5	40.0	2664.4	1421.4	27.1		492	
	6	50.0	2992.6	1749.5	31.3		429	
	7 8	60.0 70.0	3278.0 3535.0	2034.9	35.0		381	
	U	,0.0	2222.0	2292.0	38.2	υ.	343	

RE	F	MINUTES	PRESSURE	ΔP	<u>t×Δt</u> t+Δt	log 1+Δt	
SECOND CLOSED-IN - CONTINUED							
	9	80.0	3738.1	2495.1	41.0	0.312	
	10	90.0	3911.7	2668.6	43.5	0.287	
	11	100.0	4058.0	2815.0	45.7	0.265	
	12	110.0	4175.1	2932.1	47.7	0.247	
	13	120.0	4278.8	3035.8	49.5	0.231	
	14	130.0	4365.0	3122.0	51.1	0.217	
	15	140.0	4440.1	3197.1	52.5	0.204	
	16	150.0	4505.7	3262.7	53.9	0.193	
	17	160.0	4563.0	3319.9	55.1	0.184	
***	18	170.0	4617.9	3374.8	56.3	0.175	
G	19	179.0	4661.7	3418.7	57.2	0.167	

TICKET NO: 72613300

75 37. CLOCK NO: 26221 HOUR: 24



rqç

GAUGE NO: 7512

DEPTH: 9422.0

		, 1104 L	OCCI I	10011. 2		A Z S
RE	:F	MINUTES	PRESSURE	ΔΡ	<u>t×Δt</u> t+Δt	$\log \frac{t + \Delta t}{\Delta t}$
			FIRST	FLOW		
8	1 2 3 4	0.0 2.0 4.0 6.0	1297.6 1289.0 1291.0 1288.8	-8.6 2.1 -2.2		
С	5 6 7	8.0 10.0 11.1	1283.0 1273.8 1271.2	-5.8 -9.2 -2.6		
		F	IRST CL	.OSED-I	N	
С	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.0 4.0 8.0 12.0 16.0 20.0 24.0 28.0 32.0 36.0 40.0 44.0 52.0 56.0 59.8	1271.2 1636.0 1981.6 2337.3 2694.2 3005.6 3261.6 3481.4 3664.8 3832.2 3976.0 4099.4 4206.3 4307.2 4397.0 4473.7	364.8 710.5 1066.1 1423.0 1734.4 1990.5 2210.2 2393.6 2561.1 2704.8 2828.3 2935.1 3036.1 3125.9 3202.5	3.0 4.6 5.8 6.6 7.1 7.6 8.0 8.3 8.5 8.7 8.9 9.0 9.2 9.3 9.4	0.575 0.379 0.286 0.229 0.192 0.165 0.145 0.129 0.117 0.106 0.098 0.091 0.084 0.079 0.074
			SECOND	FLOW		
E	1 3 4 5 6 7 8 9	0.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0 73.0	1304.9 1287.6 1282.2 1272.1 1270.4 1273.0 1273.0 1273.0 1274.5	-17.2 -5.4 -10.1 -1.7 2.6 0.0 0.0		
		SE	COND CL	_OSED-I	N	
F	1 2 3 4 5 6 7 8	0.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0	1274.5 1595.3 1947.6 2315.9 2686.5 3021.6 3316.2 3565.0	320.8 673.0 1041.4 1412.0 1747.1 2041.7 2290.5	8.9 16.2 22.1 27.1 31.3 35.0 38.2	0.973 0.716 0.580 0.492 0.429 0.380 0.343

OCCUPATION OF THE PERSON	CHOONE BOX					· · · · · · · · · · · · · · · · · · ·
RE	F	MINUTES	PRESSURE	ΔΡ	<u>t×∆t</u> t+∆t	$\log \frac{t + \Delta t}{\Delta t}$
	SE	COND CLOSED	-IN - CONTI	NUED	State Western States and Authorities Annual States and States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual States Annual Annual States Annual States Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Ann	TOWNS ELECTRICAL PROPERTY.
	9	80.0	3762.4	2487.9	41.0	0.312
	10	90.0	<b>3</b> 933.1	2658.6	43.5	0.287
	11	100.0	4072.7	2798.2	45.7	0.265
	12	110.0	4188.5	2914.0	47.7	0.247
	13	120.0	4293.5	3019.0	49.5	0.231
	14	130.0	4384.8	3110.3	51.1	0.217
	15	140.0	4462.9	3188.4	52.6	0.204
	16	150.0	4531.4	3256.8	53.9	0.193
	17	160.0	4589.6	3315.1	55.1	0.183
	18	170.0	4643.2	3368.7	56.3	0.175
G	19	179.0	4683.9	3409.3	57.2	0.167

TICKET NO: 72613300

CLOCK NO: 18754 HOUR: 24



GAUGE NO: 641

DEPTH: 9425.9

L	-	CHARLES AND ADMINISTRATION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T				9 E	A V
R	EF	MINUTES	PRESSURE	ΔΡ	<u>t × Δt</u> 1 + Δt	$\log \frac{t + \Delta t}{\Delta t}$	]
			FIRST	FLOW			
В	i	0.0	1289.1				
	2	2.0	1285.8	-3.3			Ì
	3	4.0	1287.1	1.3			l
	4	6.0	1285.4	-1.7			Ī
	5	8.0	1281.0	-4.4			
l	6	10.0	1274.3	-6.7			l
C	7	11.1	1272.5	-1.8			
		F	IRST CL	OSED-II	٧		
С	1	0.0	1272.5				
_	2	4.0	1618.1	345.7	2.9	0 570	
	3	8.0	1973.0	700.6	4.7	0.579	П
	4	12.0	2317.8	1045.3	4.7 5.8	0.378	П
	5	16.0	2656.5	1384.0		0.284	Н
	6	20.0	2957.0	1684.6	6.6 7.1	0.229	П
	7	24.0	3245.2	1972.8	7.1	0.192	
	8	28.0	3473.0	2200.5		0.165	
	9	32.0	3666.2	2393.7	8.0	0.145	ı
	10	36.0	3845.4	2572.9	8.3	0.130	ı
	11	40.0	3996.9	2724.4	8.5	0.117	
	12	44.0	4127.2	2854.7	8.7 8.9	0.106	-
	13	48.0	4240.7	2968.3	9.0	0.098	ļ
	14	52.0	4337.8	3065.3	9,2	0.090	-
	15	56.0	4427.2	3154.7	9.3	0.084	-
D	16	59.8	4496.0	3223.5	9.4	0.079	
			SECOND	FLOW			
Ε	1	0.0	1200 3			Ì	
-	5	10.0	1300.2	10.0		l	ı
	3	20.0	1290.2 1287.4	-10.0		l	ı
	4	30.0	1276.7	-2.8		l	1
	5	40.0	1276.7	-10.7			۱
	6	50.0	1275.4	0.0 -1.3			ı
	7	60.0	1275.4	0.0		1	1
	8	70.0	1275.4	0.0		I	ı
F	9	73.0	1275.8	0.4			
		SE	COND CL	OSED-IN	J		
F			4075			l	
i.	1	0.0	1275.8			1	
	2	10.0	1606.3	330.5	8.9	0.973	
	3	20.0	1973.4	697.6	16.2	0.716	
	4	30.0	2351.3	1075.5	22.1	0.580	l
	5	40.0	2711.1	1435.3	27.1	0.492	
	6	50.0	3033.1	1757.3	31.3	0.429	
	7	60.0	3321.9	2046.1	35.0	0.381	
	8	70.0	3567.5	2291.7	38.2	0.343	
· · · · · · · · · · · · · · · · · · ·						1	ı

R	EF	MINUTES	PRESSURE	ΔΡ	<u>†×Δ†</u> † † Δ†	109 1+A1
	SE	COND CLOSED	-IN - CONTI	NUED	Bootstarkerserverse in his moon system as agreement of	Supplemental Contraction of Street
	9	80.0	3780.7	2504.9	41.0	0.312
	10	90.0	3954.8	2679.0	43.5	0.287
	11	100.0	4095.0	2819.3	45.7	0.265
	12	110.0	4215.2	2939.4	47.7	0.247
	13	120.0	4316.3	3040.5	49.5	0.231
	14	130.0	4403.5	3127.7	51.1	0.217
	15	140.0	4477.1	3201.3	52.6	0.204
	16	150.0	4548.4	3272.7	53.9	0.193
	17	160.0	4604.4	3328.6	55.1	0.184
_	18	170.0	4658.2	3382.4	56.3	0.175
G	19	179.0	4701.7	3425.9	57.2	0.167

And the second second second			0.0.	I.O.	LENGTH	DEPTH
And the transfer of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra		DRILL PIPE	5.000	4.276	9052.1	
5	0	IMPACT REVERSING SUB	6.000	3.000	1.0	9052.0
3		DRILL COLLARS	6.000	2.750	283.0	•
5		CROSSOVER	6.000	3.000	0.9	
1		HANDLING SUB & CHOKE ASSEMBLY	5.750	2.250	4.6	
8	)	AP RUNNING CASE	5.000	3.000	4.2	9342.7
1:	3 0	DUAL CIP SAMPLER	5.000	<b>0.</b> 750	7.0	
60	,   1	HYDROSPRING TESTER	5.000	0.750	5.0	9356.6
80		AP RUNNING CASE	5.000	3.000	4.2	9358.8
15		JAR	5.000	1.750	5.0	9330.8
16	v	VR SAFETY JOINT	5.000	1.000	2.8	
70		OPEN HOLE PACKER	7.750	1.530	5.8	9373.8
70		OPEN HOLE PACKER	7.750	1.530	5.8	9379.6
19		ANCHOR PIPE SAFETY JOINT	5.000	1.250	4.2	
20		FLUSH JOINT ANCHOR	5.000	2.370	35.0	
81	0	BLANKED-OFF RUNNING CASE	5.000		4.6	9422.0
81		BLANKED-OFF RUNNING CASE	5.000		3.9	9425.9
85		TEMPERATURE RUNNING CASE	5.000		4.1	9432.0
		OTAL DEPTH				9433.0

. 312 . 28 . 261 . 231 . 204 . 193 . 184 . 175 . 162



15-DEC-83
BAKERSFIELD
019-21924

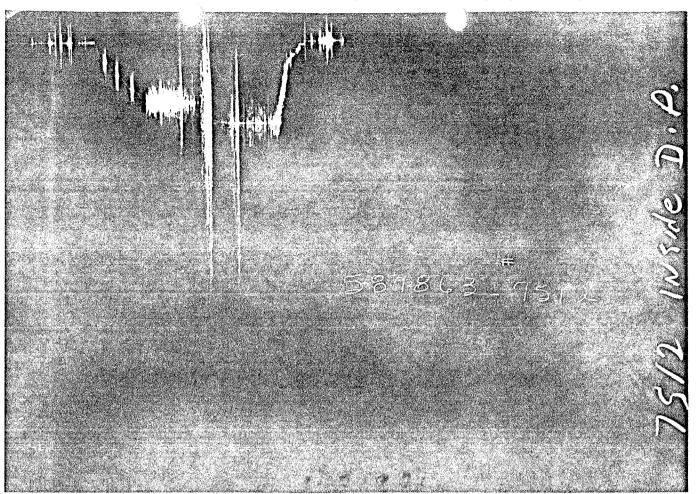


DINGSION OF OIL & GAS COALINGA

FORMATION TESTING SERVICE REPORT

WELL NO TEST NO. FIELD TESTED INTERVAL AMERICAN HUNTER EXPLORATION, LIMITED

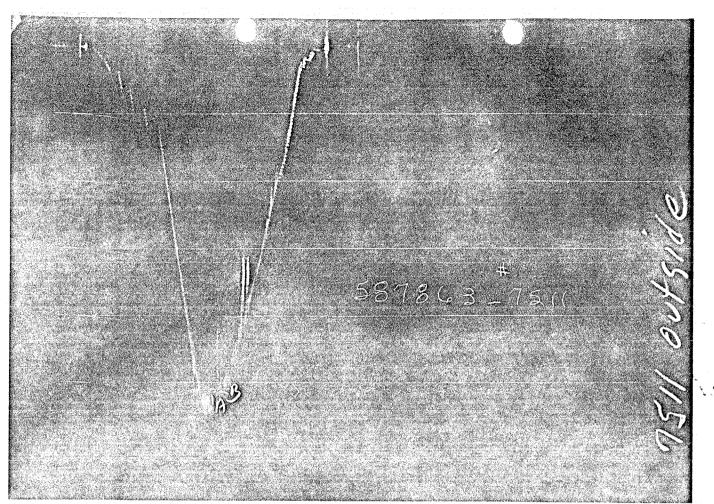
STRIE CALIFORNIA



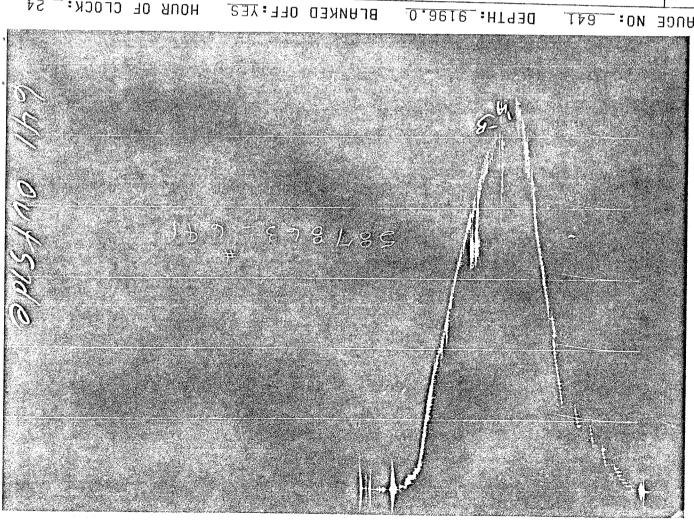
(	GAUG	E NO: 7512 DEPTH: 9126.0	BLANKED OFF:_	NO HOUR OF CLOCK:	24
	ID	DESCRIPTION	PRESSURE	TIME	TYPE
	А	INITIAL HYDROSTATIC	REPORTED CALCULATED	REPORTED CALCULATED	
	В	FINAL HYDROSTATIC			

 $\Gamma^{+}(Q,\zeta)$ 

	L NO: 1090 DEPIH: 9142.0	. BLANI	KED OFF:_	NO HOUR OF CLOCK	- 24	
ID	DESCRIPTION	PRE:	SSURE	TIME		ł
A	INITIAL HYDROSTATIC		5130.7	REPORTED CALCULATED	TYPE	i i
В	FINAL HYDROSTATIC	5198	5086,6			



GAUGE NO: 7511 DEPTH: 9192.0 BLANKED OFF: YES HOUR OF CLOCK: 24 TIME PRESSURE REPORTED | CALCULATED ID DESCRIPTION TYPE REPORTED A INITIAL HYDROSTATIC 5260 5166.5 В FINAL HYDROSTATIC 5182 5132.1



	₱°6SIS	2513	INAL HYDROSTATIC	В
GHCCULATED	7.8712	2887	NITIAL HYDROSTATIC	[
TIME	SSURE	BREPORTED	DESCRIPTION	10
S HOUR OF CLOCK: 24	VED OFF: YE	ВГВИ	NO: 641 DEPTH: 9196.0	CAUGE
		- Ta <del>ld</del> a		

EQUIPMENT & HOLE DATA	TICKET NUMBER: 58786300
FORMATION TESTED:	DOTE 11 20 00 TEST NO. 15
NET PAY (ft):	DATE: 11-30-83 TEST NO: 5
GROSS TESTED FOOTAGE: 40.0  ALL DEPTHS MEASURED FROM: KELLY BUSHING	TYPE DST: OPEN HOLE
CASING PERFS. (ft):	
HOLE OR CASING SIZE (tn): 8.750	HALLIBURTON CAMP:
ELEVATION (ft):	<u>BAKERSFIELD</u>
TOTAL DEPTH (ft): 9200.0	D. D. J. VOLIC
PACKER DEPTH(S) (ft): 9154. 9160	TESTER: R.D. LYONS
FINAL SURFACE CHOKE (tn):	
BOTTOM HOLE CHOKE (in): 0.750	WITNESS: WALT ZURBA
MUD WEIGHT (lb/gal): 10.50	WIINESS:
MUD VISCOSITY (sec):46	
ESTIMATED HOLE TEMP. ( OF):	DRILLING CONTRACTOR:
ACTUAL HOLE TEMP. (°F): 121 @ 9200.0 ft	MONTGOMERY DRILLING COMPANY
FLUID PROPERTIES FOR	× 1
RECOVERED MUD & WATER	SAMPLER DATA
SOURCE RESISTIVITY CHLORIDES	Pstg AT SURFACE:
<b>6</b> ppm	cu.ft. OF GAS:
& ppm	cc OF OIL:
	cc OF WATER:
	cc OF MUD:
	TOTAL LIQUID cc:
	YOUNG LIGOTE CC.
HYDROCARBON PROPERTIES	CUSHION DATA
OIL GRAVITY (°API): @°F	TYPE AMOUNT WEIGHT
GAS/OIL RATIO (cu.ft. per bbl):	WATER (FI) 2000.0 8,33
RECOVERED:	진비
PULLED TO FLUID RECOVERED	
CUSHION AND 523 FEET OF DRILL	STER V GUM DNI
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REMARKS:	
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выскей зент... CAME OUT OF THE HOLE., NO **DROPPED - PULLED LOOSE AND** OPENED HYDROSPRING - FLUID 0230 OROPPEO - PULLED LOOSE. OPENED HYDROSPRING - FLUID 0253 E8-0E-11 L10011 RATE BPD SURFACE PRESSURE PSI MCF **K**EWBKK2 21SE CHOKE SA3 TAR LIWE 11CKE1 NO: 28188300 TYPE & SIZE MEASURING DEVICE:

			0.0.	I.D.	LENGTH	DEPTH
į.		DRILL PIPE	5.000	4.276	8854.0	
)	Đ	IMPACT REVERSING SUB	6.000	3.000	1.0	8838.0
Į		DRILL COLLARS	6.000	2.750	283.0	
İ		CROSSOVER	6.000	3.000	0.9	
		HANDLING SUB & CHOKE ASSEMBLY	5.750	2.250	4.6	
		AP RUNNING CASE	5.000	3.000	4.2	9126.0
	0	DUAL CIP SAMPLER	5.000	0.750	7.0	
	5	HYDROSPRING TESTER	5.000	0.750	5.0	, ,
		AP RUNNING CASE	5.000	3.000	4.2	9142.0
		JAR	5.000	1.750	5.0	The second
	v	VR SAFETY JOINT	5.000	1.000	2.8	
2 may 2 m		OPEN HOLE PACKER	7.750	1.530	5.8	9154.0
		OPEN HOLE PACKER,	7.750	1.530	5.8	9160.0
		ANCHOR PIPE SAFETY JOINT	5.000	1.250	4.2	
		FLUSH JOINT ANCHOR	5.000	2.370	21.0	
	0	BLANKED-OFF RUNNING CASE	5.000		4.6	9192.0
	6	BLANKED-OFF RUNNING CASE	5.000		3.9	9196.0
		TEMPERATURE RUNNING CASE	5.000		4.1	9200.0
	T	OTAL DEPTH				9200.0

рш

## 89 JL-898L8S#

Average Effective

Average Effective 
$$k=\frac{kh}{h}$$
 Permeability 
$$S=1.151\left[\begin{array}{c} \frac{kh}{m}-LOG \frac{kt}{\Phi \ \mu \ C_t \Gamma_w^2}+3.23 \end{array}\right]$$
 — Skin Factor 
$$S=1.151\left[\begin{array}{c} \frac{kh}{m} -\frac{kh}{m} $

Damage Ratio 
$$O(P_1) = O(P_1) = O(P_1)$$
 = RQ oits A spansor of the Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Point Poin

Indicated Flow AOF, = 
$$\frac{Q_g \text{ m(P^*)}}{\text{m(P^*)} - \text{m(P)}}$$
 MCFD Rate (Maximum)

Pate (Minimum) 
$$AOF_2 = Q_9 \frac{m(P^*) - m(P_f)}{m(P^*)}$$
 MCFD



11CKET NO. 58786200 15-DEC-83 BAKERSFIELD 019-21924



DIMISION OF OIL & GAS COALINGA

FORMATION TESTING SERVICE REPORT

ECHL LOCATION

LEASE NAME

WELL NO.

TEST NO.

FIELD AREA

TESTED INTERVAL

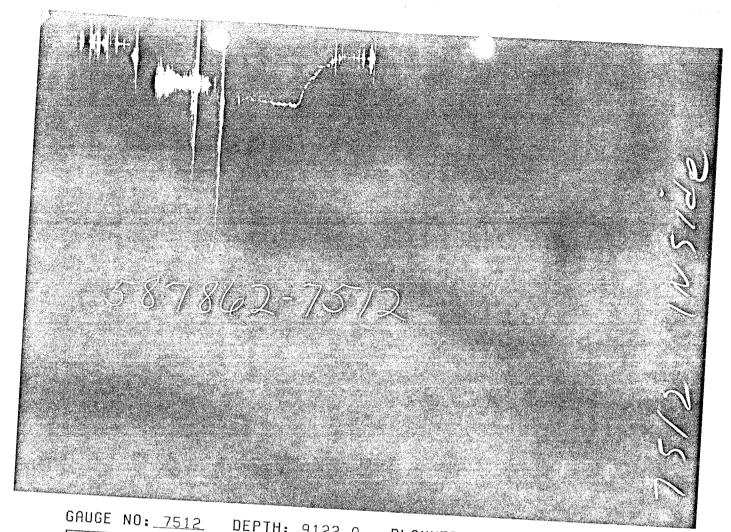
CHANNEY RANCH

COLET

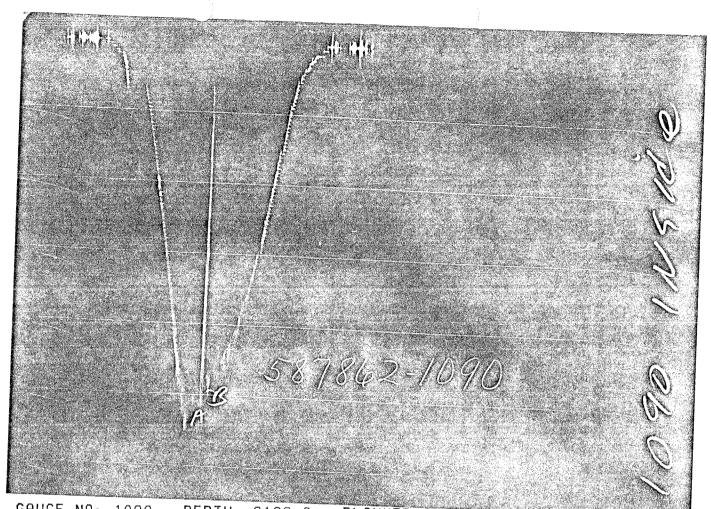
FRESNO

CALIFORNIA

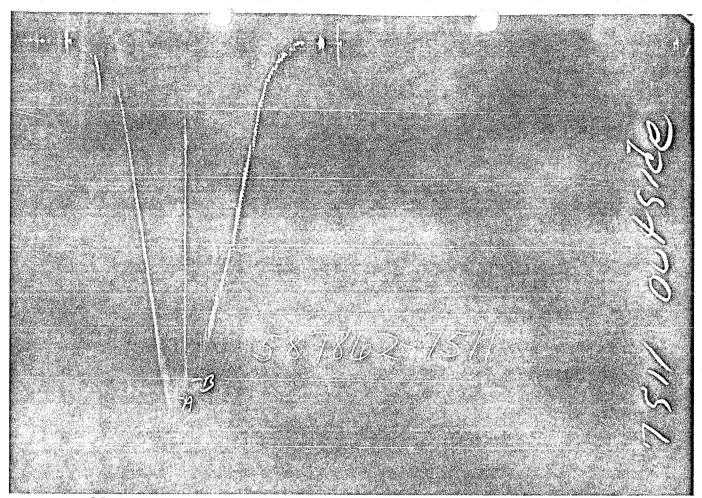
LEASE OWNER/COMPANY NAI



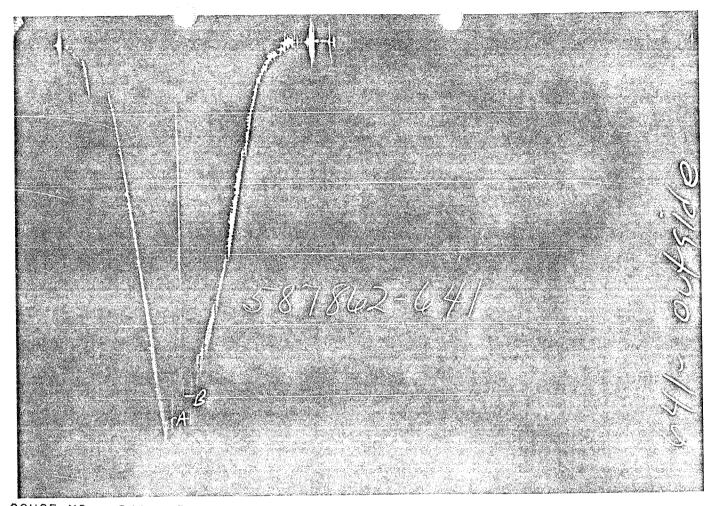
GAUG	E NO: 7512 DEPTH: 9122.(		
ID	DESCRIPTION	D BLANKED OFF: NO HOUR OF CLOCK: PRESSURE	24
A	INITIAL HYDROSTATIC	REPORTED CO. A.	TYPE
	FINAL HYDROSTATIC		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon



•	JHUU	E NU: 1090 DEPIH: 9138.0	_ BLANI	KED OFF:	<u>NO</u> HOUR	UF CCUCK	<u>4</u>
	ID	DESCRIPTION		SSURE	1 4	ME	TYPE
ı			REPORTED	CALCULATED	REPORTED	CALCULATED	
	A	INITIAL HYDROSTATIC		5207.9			
-	В	FINAL HYDROSTATIC	A 100 100 100 100 100 100 100 100 100 10	4877.3			
L				4077.3			1 1



GAL	GE NO: 7511 DEPTH: 9192.0	BLANK	ED OFF: Y	ES HOUR	OF CLOCK	
11	DESCRIPTION		SURE		ME	TYF
<b></b>		REPORTED	CALCULATED	REPORTED	CALCULATED	] ' ' '
A	INITIAL HYDROSTATIC	5299	5268.1			
В	FINAL HYDROSTATIC	4947	4939.3			



GAUGE NO: _ 641 DEPTH: 9196.0 BLANKED OFF: YES HOUR OF CLOCK: 24 PRESSURE REPORTED CALCULATED ID TIME
REPORTED | CALCULATED DESCRIPTION TYPE A INITIAL HYDROSTATIC 5287 5280.4 В FINAL HYDROSTATIC 4956.3 4994

EQUIPMENT & HOLE USER	
ALT: The part of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	TICKET NUMBER: 58786200
CD000	
GROSS TESTED FOOTAGE:  ALL DEPTHS MEASURED FROM:  CASING PERES. (2)	DATE: 11-29-83 TEST NO: 4
HOLE OF . (ft):	_   TYPE DST:OPEN HOLF
ELEVATION (ft):  TOTAL DEPTH (ft):	HALLIBURTON CAMP: BAKERSFIELD
PACKER DEPTH(S) (ft): 9150, 9156  FINAL SURFACE CHOKE (tn):  BOTTOM HOLE CHOKE (tn):	TESTER: LYONS
MUD WEIGHT (lb/gal): 0. /',()  MUD VISCOSITY (sec): 1(). (,()	WITNESS: ZURBA
ACTUAL HOLE TEMP. (°F): 212 @ 9200 1	DRILLING CONTRACTOR:  MONTGOMERY DRILLING COMPANY
SOURCE RESISTIVITY	SAMPLER DATA
- e _ °F - PPm	Psig AT SURFACE:
0 05	cu.ft. OF GAS:
8 05	cc nt OIL:
	CC OF WHIER:
6 oF - bbw	cc up MUD:
HYDROCARBON PRODERTS	INTHE FIGUID CC:
HYDROCARBON PROPERTII ,  OIL GRAVITY (°API):  GAS/OIL RATIO (cu.ft. per bbl):  GAS GRAVITY:	CHCHION
GAS GRAVITY: [cu.ft. per bbl]:	CUSHION DATA TYPE AMOUNT WEIGHT
	WATER (FT.) 1188.0 8.33
RECOVERED:	
523' OF HOLE FLUID ANII MUD	
A LOID HALL MUD	MERSURED FROM TESTER VALVE
	ED F
	SUR
REMARKS:	AER.
LOST PACKER SEAT.	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
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TYPE & SI	ZE MEASUR	ING DEVICE			TICKET NO: 58786200
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
11-29-83			CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF	THE COST COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF THE COST OF T	
0217					OPENED HYDROSPRING WITH A LIGHT
					BLOW
0219					PACKER SEAT GAVE AWAY
0220					PULLED LOOSE.
-					
			47.75		
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	*				
*					
					1
			N. C. C. C. C. C. C. C. C. C. C. C. C. C.		
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				The wife of the transfer and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con	

p						
				I.D.	LENGTH	DEPTH
	Q	•	•			
1	Ä	DRILL PIPE	5.000	4.276	8854.0	
50	8	IMPACT REVERSING SUB	6.000	3.000	1.0	8834.0
3		DRILL COLLARS	6.000	2.750	283.0	
5		CROSSOVER	6.000	3.000	0.9	
11		HANDLING SUB & CHOKE ASSEMBLY	5.750	2.250	4.6	
80		AP RUNNING CASE	5.000	3,000	4.2	9122.0
13	0	DUAL CIP SAMPLER	5.000	0.750	7.0	
60		HYDROSPRING TESTER	5.000	0.750	5.0	, ·
80		AP RUNNING CASE	5.000	3.000	4.2	9138.0
15		JAR	5.000	1.750	5.0	A. M
16	v	VR SAFETY JOINT	5.000	1.000	2.8	
70		OPEN HOLE PACKER	7.750	1.530	5.8	9150.0
70		OPEN HOLE PACKER	7.750	1.530	5.8	9156.0
19		ANCHOR PIPE SAFETY JOINT	5.000	1.250	4.2	
20		FLUSH JOINT ANCHOR	5.000	2.370	25.0	
81	٥	BLANKED-OFF RUNNING CASE	5.000		4.6	9192.0
81	В	BLANKED-OFF RUNNING CASE	5.000		3.9	9196.0
82		TEMPERATURE RUNNING CASE	5.000		4.1	9200.0
	-	TOTAL DEPTH				9200.0



## 4587862-TE68

Indicated Flow Capacity

$$kh = \frac{1637 Q_g T}{m}$$

md-ft

Average Effective Permeability

$$k = \frac{kh}{h}$$

md

Skin Factor

S = 1.151 
$$\left[ \frac{m(P^*) - m(P_f)}{m} - LOG \frac{kt}{\phi \mu c_t r_w^2} + 3.23 \right]$$
 ---

Damage Ratio

$$DR = \frac{m(P^*) - m(P_f)}{m(P^*) - m(P_f) - 0.87 \text{ mS}}$$

Indicated Flow Rate (Maximum)

$$AOF_1 = \frac{Q_g m(P^*)}{m(P^*) - m(P_f)}$$

MCFD

Indicated Flow Rate (Minimum)

$$AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_f)}}$$

MCFD

Approx. Radius of Investigation

$$r_i = 0.032 \sqrt{\frac{kt}{\phi\mu c_t}}$$

ft

## RECEIVED

APR 2 3 1984

DIVISION OF OIL & GAS



TICKET NO. 58786100 28-NOV-83 BAKERSFIELD 12 FIELD CHANNEY RANCH COUNTY

LEASE NAME

WELL NO.

TEST

NO.

6463, 1 -

6512.

AMERICAN HUNTER EXPLORATION LIMITED
LEASE OWNER/COMPANY NAME

STATE CALIFORNIA

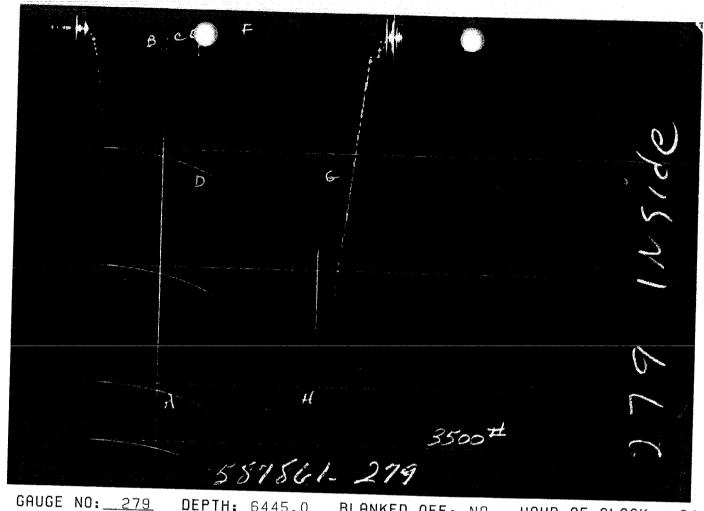
TESTED INTERVAL

FORMATION TESTING SERVICE REPORT

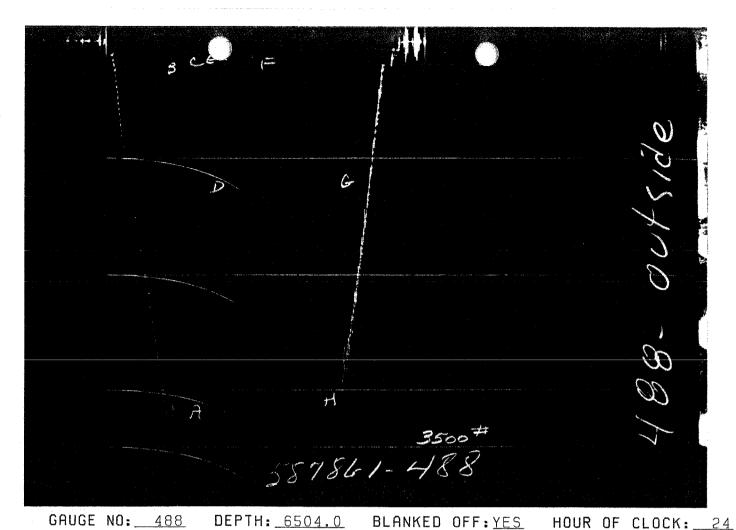
500 # 587861-6179

GAUGE NO: 6179 DEPTH: 6429.0 BLANKED OFF: NO HOUR OF CLOCK: 24

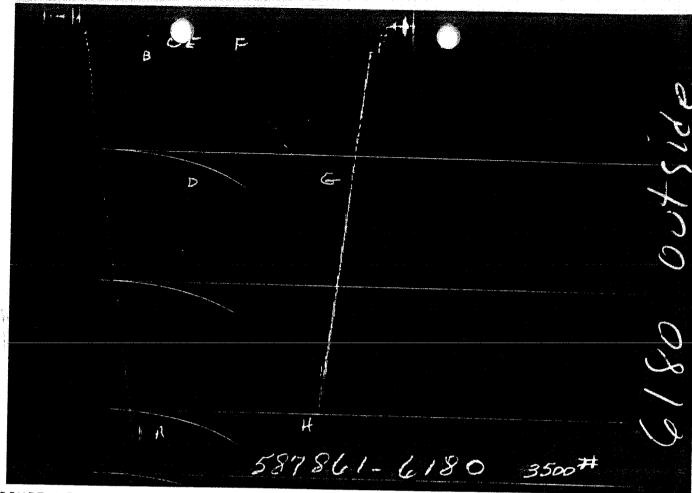
ID	DESCRIPTION		SSURE	TIME		7.10
А	INITIAL HYDROSTATIC	REPORTED	CALCULATED	REPORTED	CALCULATED	TYPE
В	INITIAL FIRST FLOW	31	73.6		19774	
С	FINAL FIRST FLOW	31	21.7	10.0	9.7	F
С	INITIAL FIRST CLOSED-IN	31	21.7			
D	FINAL FIRST CLOSED-IN		32.5	61.0	60.2	С
E	INITIAL SECOND FLOW		21.4			
F	FINAL SECOND FLOW		3.6	91.0	92.9	F
F	INITIAL SECOND CLOSED-IN		3.6			
G	FINAL SECOND CLOSED-IN		3.8	187.0	186.2	С
Н	FINAL HYDROSTATIC					
						ı



DEPTH: 6445.0 BLANKED OFF: NO HOUR OF CLOCK: 24 ID **PRESSURE** DESCRIPTION TIME REPORTED | CALCULATED REPORTED TYPE CALCULATED А INITIAL HYDROSTATIC 3183 3142.4 В INITIAL FIRST FLOW 66 67.1 10.0 9.7 F C FINAL FIRST FLOW 55 36.7 INITIAL FIRST CLOSED-IN  $\mathbb{C}$ 55 36.7 FINAL FIRST CLOSED-IN 61.0 60.2 С D 1195 1185.1 Ε INITIAL SECOND FLOW 25 39.1 91.0 F 92.9 F FINAL SECOND FLOW 22 10.3 INITIAL SECOND CLOSED-IN F 22 10.3 187.0 FINAL SECOND CLOSED-IN 186.2 C G 1195 1205.9 FINAL HYDROSTATIC Η 3183 3042.0



	E NO. 100 DEI III. 0004.0		(LD 0, 1 • 1	LJ HUUN	o, crock	•
ID	DESCRIPTION	PRE:	SSURE CALCULATED	TIM REPORTED	1E CALCULATED	TYPE
A	INITIAL HYDROSTATIC	3167	3177.4			
В	INITIAL FIRST FLOW	207	264.4	100	0 7	_
С	FINAL FIRST FLOW	207	229.9	10.0	9.7	F
С	INITIAL FIRST CLOSED-IN	207	229.9	C1	~~ ~	
D	FINAL FIRST CLOSED-IN	1195	1194.6	61.0	60.2	С
Е	INITIAL SECOND FLOW	218	242.2	0.1 0	00.0	_
F	FINAL SECOND FLOW	286	271.3	91.0	92.9	F
F	INITIAL SECOND CLOSED-IN	286	271.3	107.0	400 0	
G	FINAL SECOND CLOSED-IN	1195	1212.4	187.0	186.2	С
Н	FINAL HYDROSTATIC	3167	3056.4			



GAUG	E NO: 6180 DEPTH: 6508.0	_ BLANI	KED OFF:Y	ES HOUR	OF CLOCK	: 24
ID	DESCRIPTION	PRE REPORTED	SSURE CALCULATED	TI	TIME	
A	INITIAL HYDROSTATIC	3193	3179.3	KEFURTEU	CALCULATED	TYPE
В	INITIAL FIRST FLOW	250	276.6			
С	FINAL FIRST FLOW	229	236.6	10.0	9.7	F
C	INITIAL FIRST CLOSED-IN	229	236.6	· · · · · · · · · · · · · · · · · · ·		
D	FINAL FIRST CLOSED-IN	1169	1183.0	61.0	60.2	С
E	INITIAL SECOND FLOW	229	254.5			
F	FINAL SECOND FLOW	271	283.8	91.0	92.9	F
F	INITIAL SECOND CLOSED-IN	271	283.8			
G	FINAL SECOND CLOSED-IN	1190	1205.6	187.0	186.2	C
Н	FINAL HYDROSTATIC	3193	3050.5			

TICKET NO: 58786100

CLOCK NO: 28187 HOUR: 24



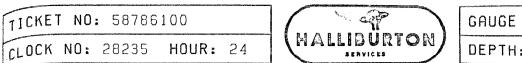
**GAUGE NO:** 6179

<u>t×Δt</u> t+Δt

log t+At

L				tid ot, opid tid fillediscop a more on the opposite		On the latest transfer that					
R	EF	MINUTES	PRESSURE	ΔР	<u>t×Δt</u> t+Δt	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔΡ	
			FIRST	FLOW					-American and American and State and State and State and State and State and State and State and State and Sta	Griffeln fri 20 fe-Griffeln en chaffe fri Ermidd Geborich sweez (God	
١,											
B		0.0	73.6								
	2	2.0	52.3	-21.3							
	3	4.0	41.6	-10.7							
l	4	6.0	37.2	-4.4							
l c	5	8.0	32.9	-4.3				•			
'	6	9.7	21.7	-11.3							
		F	IRST CL	.OSED-I1	٧						
٦		2 4									
CD	i 2	0.0	21.7		0.4	0.005					
	2	60.2	32.5	10.9	8.4	0.065					
			SECONE	FLOW							
۱ _											
E	1	0.0	21.4				1				
	2	10.0	5.0	-16.4							
	3	20.0	4.4	-0.6							
1	4	30.0	4.0	-0.4							
1	5	40.0	4.0	0.0							
	6	50.0	4.0	0.0							
]	7	60.0	4.0	0.0							
1	8	70.0 80.0	4.0	0.0							
F	9 10	92.9	4.1	0.1							
	10	92.9	3.6	-0.5							
		SE	ECOND CI	_OSED-I	N						
F	1	0.0	3.6								
F	5	186.2	3.8	0.2	66.1	0.191					
	_	10016	0.0	0.2		0.101					
1											
l .						1	1				

REMARKS: THIS GAUGE WAS RUN ABOVE THE TOOL.



GAUGE NO: 279

CL	UL r	NU: 2	0235 <b>n</b>	UUK: 24	1	SERVI	-
RE	F	MINUTES	PRESSURE	ΔP	<u>t×Δt</u> t+Δt	log <u>t+Δt</u>	_
			FIRST	FLOW			
В	1	0.0	67.1				
	2	2.0	67.6	0.6			
	3	4.0	54.0	-13.6			
	4	6.0	46.9	-7.1			
	5	8.0	42.0	-4.9			
С	6	9.7	36.7	~5.3			
		F	IRST CL	OSED-II	N		
С	i	0.0	36.7				
L	5	5.0	467.4	430.7	3.3	0.467	
	3	10.0	639.2	602.5	4.9	0.467	l
	4	15.0	752.1	715.4	5.9	0.234	
	5	20.0	834.0	797.3	6.5	0.172	
	6	25.0	897.4	860.7	7.0	0.143	
	7	30.0	954.1	917.4	7.3	0.122	
	8	35.0	1001.2	964.5	7.6	0.106	
	9	40.0	1043.2	1006.5	7.8	0.094	
	10	45.0	1084.0	1047.3	8.0	0.085	
	11	50.0	1120.2	1083.5	8.1	0.077	
	12	55.0	1152.4	1115.7	8.3	0.071	
D	13	60.2	1185.1	1148.4	8.4	0.065	
			SECOND	FLOW			
Ε			00.4				l
_	1	0.0	39.1	77 5			ŀ
	2	10.0	11.6	-27.5 -0.6		1 1	
	3	20.0 30.0	11.1 9.9	-0.6		11	
	<b>4</b> 5	40.0	9.9	0.0			į
	5 6	50.0	9.9	0.0		1 1	i
	7	60.0	9.5	-0.3			i
	8	70.0	9.5	0.0			ĺ
	9	80.0	10.0	0.4			İ
F	10	92.9	10.3	0.3			
		S	ECOND CI	nsen-t	N		
		•		an war again tool of			
F	1	0.0	10.3		***		
	2	10.0	210.5	200.2	9.1	1.050	ĺ
	3	20.0	333.8	323.5	16.7	0.787	
	4	30.0	433.8	423.5	23.2	0.645	
	5 6	40.0 50.0	517.7 590.1	507.3 579.8	28.8 33.6	0.552 0.485	
	6 7	60.0	658.2	647.9	37.9	0.433	
	8	70.0	718.2	707.9	41.6	0.433	
	9	80.0	774.3	764.0	44.9	0.358	
	10	90.0	827.2	816.8	47.9	0.330	
	11	100.0	876.8	866.5	50.6	0.307	

TICKET NO: 58786100

CLOCK NO: 26292 HOUR: 24



GAUGE NO: 488

DEPTH: 6504.0

RE	F	MINUTES	PRESSURE	ΔΡ	1×∆t 1+∆t	$\log \frac{t + \Delta t}{\Delta t}$
<del>- Constantit</del>	· · · · · · · · · · · · · · · · · · ·	о основно в дости в под под под под под под под под под под	FIRST	FLOW		
В	1 2 3 4	0.0 2.0 4.0 6.0	264.4 251.5 236.6 231.2	-12.9 -15.0 -5.3		
С	5 6	8.0 9.7	228.5 229.9	-2.7 1.4		
		F	IRST CL	.OSED-I	N	·
С	1	0.0	229.9			
	2 3 4 5 6	5.0 10.0 15.0 20.0 25.0	501.5 652.8 755.3 835.5 895.1	271.6 422.9 525.4 605.6 665.2	3.3 4.9 5.9 6.5 7.0	0.467 0.295 0.216 0.172 0.142
	7 8 9 10	30.0 35.0 40.0 45.0	953.6 998.7 1049.7 1092.7	723.7 768.8 819.8 862.8	7.3 7.6 7.8 8.0	0.122 0.106 0.094 0.085
ם	11 12 13	50.0 55.0 60.2	1129.7 1162.9 1194.6	899.8 933.0 964.7	8.1 8.3 8.4	0.077 0.071 0.065
			SECONE	FLOW		
E	1	0.0	242.2			
	2 3	10.0 20.0	242.2 251.7	0.0 9.5		
	<b>4</b> 5	30.0 40.0	258.2 259.1	6.4 0.9		
	6 7	50.0 60.0	266.5 268.2	7.4 1.7		
	8	70.0 80.0	269.9 274.0	1.6		
F	9 10	92.9	271.3	-2.7		
		St	ECOND C	LOSED-1	I N	
F	1 2	0.0 10.0 20.0	271.3 284.0 328.3	12.7 57.0	9.1 16.7	1.052
	4 5 6 7 8	30.0 40.0 50.0 60.0 70.0	415.0 497.9 569.3 640.9 706.5	143.7 226.6 298.0 369.6 435.2	23.2 28.8 33.6 37.8 41.6	0.645 0.552 0.485 0.433 0.392
	9 10 11	80.0 90.0 100.0	767.6 825.1 877.2	496.4 553.8 605.9	45.0 47.9 50.6	0.358 0.330 0.307

RE	F	MINUTES	PRESSURE	ΔP	<u>1×Δt</u> 1+Δt	10914
	SEC	OND CLOSED-	IN - CONTIN	IUED		Fare
	12	110.0	921.6	650.4	53.1	0.285
	13	120.0	965.9	694.6	55.3	0.268
	14	130.0	1008.2	737.0	57.3	0.253
	15	140.0	1046.3	775.0	59.2	0.230
	16	150.0	1085.5	814.2	60.9	0.226
	17	160.0	1121.7	850.4	62.5	0.215
	18	170.0	1156.3	885.0	64.0	0.205
	19	180.0	1192.1	920.8	65.3	0.196
G	50	186.2	1212.4	941.1	66.1	0.191



			3000 H			SERVI					
RE	F	MINUTES	PRESSURE	ΔΡ	<u>†×</u> †+	<u>Δt</u> Δt	$\log \frac{t + \Delta t}{\Delta t}$				
			FIRST	FLOW							
В	1 2 3	0.0 2.0 4.0	276.6 259.3 246.2	-17.3 -13.0							
С	4 5 6	6.0 8.0 9.7	240.2 235.9 236.6	-6.1 -4.3 0.7							
	FIRST CLOSED-IN										
С	1 2 3 4	0.0 5.0 10.0 15.0	236.6 512.1 652.2 750.1	275.5 415.6 513.5		3.3 4.9 5.9	0.468 0.296 0.217				
	5 6 7 8 9	20.0 25.0 30.0 35.0 40.0	823.5 887.2 940.3 988.4 1037.0	586.8 650.5 703.7 751.8 800.3		6.5 7.0 7.3 7.6 7.8	0.172 0.143 0.122 0.106 0.094				
ם	10 11 12 13	45.0 50.0 55.0 60.2	1078.8 1116.7 1150.1 1183.0	842.2 880.1 913.5 946.3		8.0 8.1 8.3 8.4					
			SECON	FLOW							
Е	1 2 3 4 5 6 7 8	0.0 10.0 20.0 30.0 40.0 50.0 70.0	254.5 253.4 261.9 267.7 269.8 277.5 278.2 281.6	-1.0 8.5 5.8 2.1 7.6 0.7 3.4			<i>*</i>				
F	9 10	80.0 92.9	285.4 283.8	3.8 -1.6							
		SI	ECOND C	LOSED-1	[ N						
L.	1 2 3 4 5 6 7 8 9 10	0.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0	283.8 296.9 338.8 425.4 507.7 583.8 652.1 713.8 772.7 826.0 877.1	13.0 55.0 141.5 223.9 300.0 368.3 430.0 488.8 542.2 593.3		9.1 16.7 23.2 28.8 33.6 37.9 41.6 44.9 47.9 50.6	1.051 0.788 0.646 0.552 0.484 0.433 0.392 0.358 0.330 0.307				

TICKET NO: 58786100			$- C_{\rm H} $	(HALLIDURTON)				GAUGE NO: 6180				
CLOCI	K NO: 1	3680 H	OUR: 24		\$ ERVI		-	) LDE	PTH: 650	08.0		
REF	MINUTES	PRESSURE	ΔΡ	<u>t ×∆t</u> t + ∆t	log <u>t+Δt</u>	REF		MINUTES	PRESSURE	ΔΡ	<u>t×∆t</u> t+∆t	$\log \frac{t + \Delta t}{\Delta t}$
			F: 04			s	ECO		IN - CONTINU			
		FIRST	FLUW			1	5	110.0	924.4	640.6	53.1	0.286
В 1	0.0	276.6				1	3 4	120.0 130.0	967.5 1010.1	683.7 726.3	55.3 57.3	0.268 0.253
B 1	2.0		-17.3		1	i	4 5	140.0	1048.0	764.2	59.2	
3	4.0		-13.0		1	1	6	150.0	1085.1	801.3	60.9	0.226
4	6.0		-6.1		ļ	•	7	160.0	1120.4	836.5	62.5	0.215
5	8.0		-4.3			ł	8	170.0	1154.9	871.1	64.0	
<b>C</b> 6	9.7		0.7		ĺ		9	180.0	1187.1	903.2	65.3	0.196
						G 2	0	186.2	1205.6	921.8	66.1	0.191
	F	IRST CL	OSED-IN									
C 1	0.0											
2	5.0		275.5	3.3	0.468							
3	10.0		415.6	4.9	0.296	l						
4	15.0		513.5	5.9	0.217							
5	20.0		586.8	6.5	0.172							
6	25.0		650.5	7.0	0.143							
7			703.7	7.3	0.122							
8	35.0		751.8 800.3	7.6 7.8	0.106 0.094							
9 10	40.0 45.0		842.2	8.0	0.094							
11	50.0		880.1	8.1	0.003							
12			913.5	8.3	0.071							
D 13	60.2		946.3	8.4	0.065							
		0500110	- F1 O1									
		SECOND	FLUW		Ī							
E 1	0.0											
2			-1.0			1						
3	•	261.9	8.5			1						
4			5.8		1	İ						
5			2.1			ł						
6			7.6 0.7			1						
7 8			3.4									
9			3.8			İ						
F 10			-1.6									
	c	בכטאים כו	OSED IN	•								
	5	LCOND CL	_OSED-IN	Ą								
F 1					1	j						
2			13.0	9.1	1.051							
3			55.0	16.7	0.788	1						
4			141.5	23.2	0.646							
5			223.9	28.8	0.552							
6			300.0	33.6	0.484							
7			368.3 430.0	37.9 41.6	0.433							
8 9			488.8	41.6	0.358							
10			542.2	47.9	0.330							
11			593.3	50.6	0.307	1						

			0.D.	1.0.	LENGTH	DEPTH
1		DRILL PIPE	5.000	4.270	6250.0	
50	0	IMPACT REVERSING SUB	6.000	3.000	1.0	6238.0
3		DRILL COLLARS	6.000	3.000	180.0	
5		CROSSOVER	6.000	3.000	0.9	
11		HANDLING SUB & CHOKE ASSEMBLY	5.750	2.250	4.6	
97		RECORDER ABOVE DCIP VALVE	5.000	3.000	4.2	6429.0
13	0	DUAL CIP SAMPLER	5.000	0.750	7.0	
60	۵	HYDROSPRING TESTER	5.000	0.750	5.0	
80		AP RUNNING CASE	5.000	3.000	4.2	6445.0
15		JAR	5.000	1.750	5.0	
16	v	VR SAFETY JOINT	5.000	1.000	2.8	
70		OPEN HOLE PACKER	7.750	1.530	5.8	6457.0
70		OPEN HOLE PACKER	7.750	1.530	5.8	6463.0
19		ANCHOR PIPE SAFETY JOINT	5.000	1.250	4.2	
20		FLUSH JOINT ANCHOR	5.000	2.370	30.0	
82		TEMPERATURE RUNNING CASE	5.000	2.440	4.6	6500.0
81	0	BLANKED-OFF RUNNING CASE	5.000		3.9	6504.0
81	0	BLANKED-OFF RUNNING CASE	5.000		4.1	6508.0
		TOTAL DEPTH				6512.0

## 4587861- TE 68

Indicated Flow Capacity

68

Con

$$kh = \frac{1637 Q_g T}{m}$$

md-ft

Average Effective Permeability

$$k = \frac{kh}{h}$$

md

Skin Factor

$$S = 1.151 \left[ \frac{m(P^*) - m(P_f)}{m} - LOG \frac{kt}{\phi \mu c_f r_w^2} + 3.23 \right] -$$

Damage Ratio

$$DR = \frac{m(P^*) - m(P_f)}{m(P^*) - m(P_f) - 0.87 \text{ mS}}$$

Indicated Flow Rate (Maximum)

$$AOF_1 = \frac{Q_g m(P^*)}{m(P^*) - m(P_f)}$$

MCFD

Indicated Flow Rate (Minimum)

$$AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_f)}}$$

MCFD

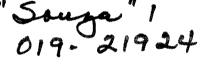
Approx. Radius of Investigation

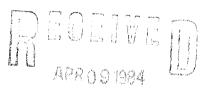
$$r_i = 0.032 \sqrt{\frac{kt}{-\phi\mu c_1}}$$

ft



TICKET NO. 58786000
22-NOV-83
BAKERSFIELD





DIVISION OF OIL & GAS COALINGA

FORMATION TESTING SERVICE REPORT

LEGAL LOCATION

ASE NAME

L NO.

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CHANNEY RANCH

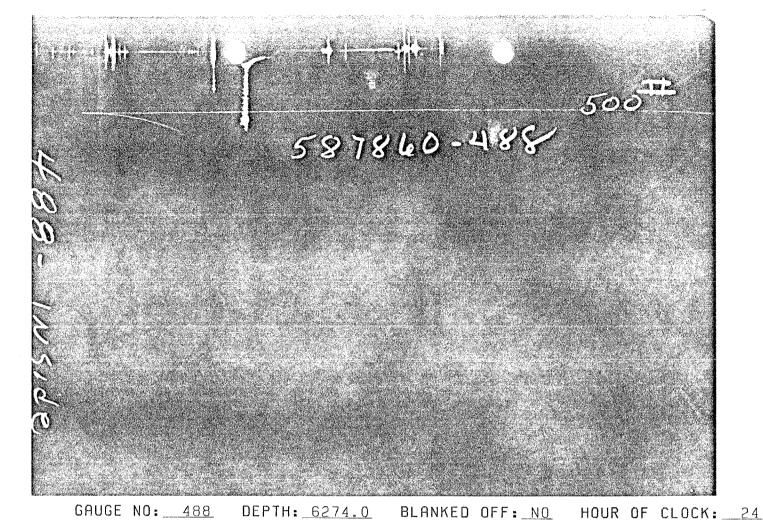
TESTED INTERVAL

COLLETY

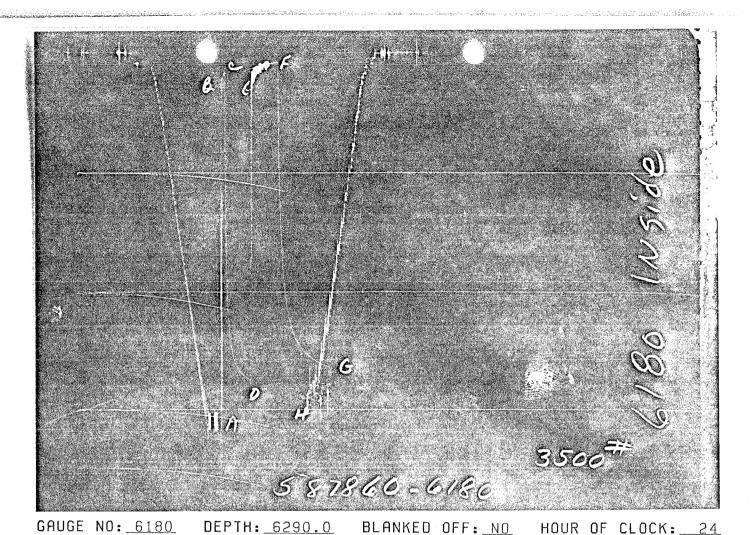
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STATE CALIFORNIA



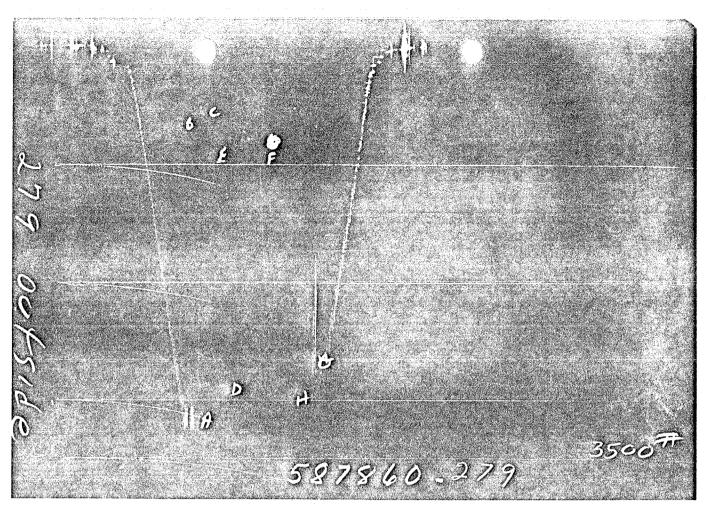
PRESSURE REPORTED | CALCULATED TIME
REPORTED | CALCULATED ID DESCRIPTION TYPE INITIAL HYDROSTATIC В INITIAL FIRST FLOW 305 132.9 10.0 8.6 F C FINAL FIRST FLOW 109 118.1 C INITIAL FIRST CLOSED-IN 109 118.1 C 61.0 59.4 D FINAL FIRST CLOSED-IN 653 104.8 INITIAL SECOND FLOW E 43 104.8 61.0 F 64.6 FINAL SECOND FLOW 48.7 F INITIAL SECOND CLOSED-IN 48.7 120.0 119.3  $\mathbb{C}$ G FINAL SECOND CLOSED-IN 11.2 Н FINAL HYDROSTATIC



PRESSURE REPORTED | CALCULATED TIME
REPORTED | CALCULATED ID DESCRIPTION TYPE А INITIAL HYDROSTATIC 3108 3094.3 В INITIAL FIRST FLOW 805 313.5 10.0 8.6 F C FINAL FIRST FLOW 167 163.8 C INITIAL FIRST CLOSED-IN 167 163.8 61.0 59.4  $\mathsf{C}$ FINAL FIRST CLOSED-IN D 2747 2744.6 INITIAL SECOND FLOW Ε 146 362.6 61.0 64.6 F F FINAL SECOND FLOW 62 78.4 F INITIAL SECOND CLOSED-IN 62 78.4 120.0 C 119.3 FINAL SECOND CLOSED-IN G 2641 2639.6 H FINAL HYDROSTATIC

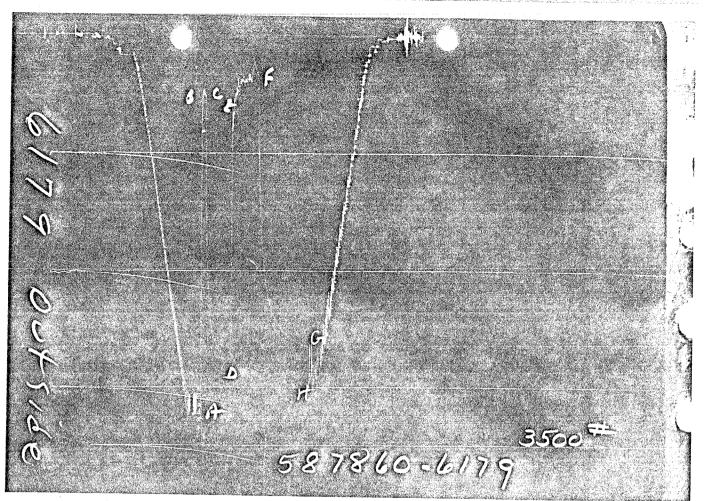
3108

2943.9



GAUGE NO: 279 DEPTH: 6369.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRE	SSURE	TI	TYPE	l	
10	DLJCIVII I 1 OIV	REPORTED	CALCULATED	REPORTED	CALCULATED		-
A	INITIAL HYDROSTATIC	3115	3132.9				
В	INITIAL FIRST FLOW	487	617.1	10.0	8.6	F	-
С	FINAL FIRST FLOW	576	576.0	10.0	0.0		
С	INITIAL FIRST CLOSED-IN	576	576.0	61.0	59.4	С	
D	FINAL FIRST CLOSED-IN	2757	2772.6	01.0	JJ. 4		
E	INITIAL SECOND FLOW	841	944.9	61.0	64.6	F	
F	FINAL SECOND FLOW	797	817.3	O1.V	04.0		-
F	INITIAL SECOND CLOSED-IN	797	817.3	120.0	119.3	۲	
G	FINAL SECOND CLOSED-IN	2645	2654.4	120.0	113.3		
Н	FINAL HYDROSTATIC	3115	2972.5				-



GAUGE NO: 6179 DEPTH: 6373.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRES	SSURE CALCULATED	TI		TYPE
A	INITIAL HYDROSTATIC	3120	3129.9	REPORTED	CALCULATED	
В	INITIAL FIRST FLOW	481	559.9			
С	FINAL FIRST FLOW	523	509.3	10.0	8.6	F
C	INITIAL FIRST CLOSED-IN	523	509.3	0.4		_
D	FINAL FIRST CLOSED-IN	2758	2756.2	61.0	59.4	С
E	INITIAL SECOND FLOW	523	649.4	0.4		
F	FINAL SECOND FLOW	314	337.2	61.0	64.6	F
F	INITIAL SECOND CLOSED-IN	314	337.2	100.0	4.4.0	
G	FINAL SECOND CLOSED-IN	2630	2650.3	120.0	119.3	С
Н	FINAL HYDROSTATIC	3120	2969.2			

TYPE & SIZE MEASURING DEVICE: CHOKE TICKET NO: 58786000 GAS RATE LIQUID RATE SURFACE CHOKE REMARKS PRESSURE TIME SIZE PS1 MCF BPD 11-15-83 1" 1906 OPENED TOOL 1" 1910 28# GAS TO SURFACE 28 1916 1 CLOSED TOOL 2017 .75 OPENED TOOL 2019 .75 30 GAS 2037 .75 20 GAS 2045 .75 17 GAS 15 2100 .75 GAS 2118 .75 15 CLOSED TOOL 2318 PULLED LOOSE

CLOCK NO: 13740 HOUR: 24



GAUGE NO: 488

DEPTH: 6274.0

		1101 1				V ryerysperson commencers are selected	Section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sectio				T a v A d	1 4 1 1
REF	T	MINUTES	PRESSURE	ΔР	<u>t ×Δt</u> t + Δt	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	1 × Δ1 1 + Δ1	log 1 At
	,		FIRST	FLOW								
	1	0.0	132.9 118.1	-14.7								
L	2	8.6										
				_OSED-I	N							
	; ;	0.0 59.4		-13.3	7.5	0.059						
			SECON	) FLOW							^	
E	1 2	0.0 10.0		-1.3								
	3	20.0	78.5	-25.0								
	4 5	40.0	54.3	-8.5								
F	6 7	50.0 64.6										
		S	ECOND (	CLOSED-	IN							
F G	1 2	0.0 119.3		-37.4	45.	4 0.208						
					Note that the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat	Participation of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the Landson of the			PARTIES AND AND AND AND AND AND AND AND AND AND	y negovoja nastandana, patestrijas	***************************************	

REMARKS:

<u>+ Δt</u> Δt CLOCK NO: 26292 HOUR: 24



GAUGE NO: 6180

DEPTH: 6290.0

L						\$ E !	VICES	2,22		1 1114			Transcription of the second second second
RE	Ē F	MINUTES	PRESSURE	ΔΡ	<u>t×Δt</u> t+Δt	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINU	JTES	PRESSURE	ΔΡ	<u>t×∆t</u> t+∆t	$\log \frac{t + \Delta t}{\Delta t}$
В	1	0.0	F I R S T	FLOW			G 1		.0SED-	2839. B	2561.2	45.4	0.208
C	2	8.6	163.8	-149.7			PRODUCTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF						RESPICE SHEET AND ANY COMMENTS OF THE
		F	IRST CL	OSED-IN	İ								
C	1 2 3 4 5 6 7 8 9 10 11 12	0.0 4.0 8.0 12.0 16.0 20.0 24.0 28.0 32.0 36.0 40.0	163.8 2005.2 2286.5 2429.9 2515.4 2575.4 2614.9 2646.7 2669.7 2687.0 2701.7 2715.4	1841.4 2122.7 2266.1 2351.6 2411.6 2451.1 2482.9 2506.0 2523.3 2537.9 2551.6	2.7 4.1 5.0 5.6 6.0 6.3 6.6 6.8 7.0 7.1	0.318 0.235 0.187 0.156 0.133 0.117 0.104 0.093 0.085 0.078							AND THE CONTROL CANADA AND AND AND AND AND AND AND AND AN
D	13 14 15 16	48.0 52.0 56.0 59.4	2724.9 2733.2 2740.6 2744.6	2561.2 2569.4 2576.8 2580.8	7.3 7.4 7.5 7.5	0.072 0.067 0.062 0.059							
			SECOND	FLOW									
E	1 2 3 4 5 6 7	0.0 10.0 20.0 30.0 40.0 50.0 64.6	362.6 162.8 124.2 103.5 95.1 90.4 78.4	-199.8 -38.6 -20.7 -8.5 -4.7									
		SE	COND CL	OȘED-IN									
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0.0 8.0 16.0 24.0 32.0 40.0 48.0 56.0 64.0 72.0 80.0 88.0 96.0 104.0 112.0	78.4 1683.6 2018.9 2204.5 2319.6 2394.2 2446.7 2486.2 2519.6 2546.1 2567.3 2588.1 2603.9 2618.7 2630.0	1605.3 1940.5 2126.2 2241.2 2315.8 2368.3 2407.8 2441.2 2467.7 2488.9 2509.7 2525.5 2540.3 2551.6	7.2 13.1 18.1 22.3 25.9 29.0 31.7 34.2 36.3 38.2 40.0 41.6 43.0 44.3	1.005 0.747 0.608 0.517 0.452 0.403 0.363 0.331 0.305 0.282 0.263 0.246 0.232 0.219							

REMARKS:

CLOCK NO: 13680 HOUR: 24



GAUGE NO: 279

DEPTH: 6369.0

		LUCI	/ MO: 1	3680 1	100K: 24		A K I	RVICE
		REF	MINUTES	PRESSURE	ΔP	<u>t ×Δt</u> t +Δt	$\log \frac{t + \Delta t}{\Delta t}$	
				FIRST	FLOW			
	E	) 2	0.0 8.6	617.1 576.0	-41.1			
			F	IRST CL	OSED-IN	l		
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			ŞEO	COND CL	OSED-IN			
	F	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0.0 8.0 16.0 24.0 32.0 40.0 48.0 56.0 64.0 72.0 80.0 88.0 96.0 104.0 112.0	817.3 1746.7 2069.2 2242.1 2345.1 2418.1 2470.8 2510.0 2540.2 2565.5 2586.8 2605.5 2620.4 2633.6 2645.9	929.3 1251.9 1424.7 1527.7 1600.8 1653.5 1692.6 1722.8 1748.2 1769.5 1788.2 1803.0 1816.2 1828.5	13.1 18.1 22.3 25.9 29.0 31.7 34.2 36.3 38.2 40.0 41.5 43.0	1.008 0.746 0.608 0.517 0.452 0.402 0.363 0.331 0.305 0.282 0.263 0.246	

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G	SEC 16		IN - CONTIN 2654.4		45.4	0.208

CLOCK NO: 28235

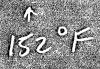


GAUGE NO: 6179

LLLUC	K NO: 2	28235	HOUR: 2	4	HALLI	J C	irto	N)	<b></b>	PTH: 63			
REF	MINUTES	PRESSURE	ΔΡ	<u>t×Δt</u> t+Δt	$\log \frac{t + \Delta t}{\Delta t}$		REF	MINU		PRESSURE	ΔΡ	t×Δt	9 ÷ A +
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	F	IRST CL	OSED-IN	1									
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REMARKS: FLOW READINGS MAY BE QUESTIONABLE

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		0.0.	1.0.	LENGTH	DEPTH
1	DRILL PIPE	5.000	4 DTC		
50	IMPACT REVERSING SUB		4.276 3.000	6100.0	6000 A
3	DRILL COLLARS	6.000	3.000	180.0	6089.0
11	CROSSOVER  HANDLING SUB & CHOKE ASSEMBLY	6.000	3.000	0.9	
80	AP RUNNING CASE	5.750	2.250	4.6	
13	DUAL CIP SAMPLER	5.000 5.000	3.000 0.750	4.2	6274.0
60	HYDROSPRING TESTER	5.000	0.750	7.0 5.0	6288.0
В0	AP RUNNING CASE	5.000	3.000	4.2	6290 0
15	JAR	5.000	1.750	5.0	
6 V	VR SAFETY JOINT	5.000	1.000	2.8	
	OPEN HOLE PACKER	7.750	1.530	5.8	6302.0
0	OPEN HOLE PACKER	7.750	1.530	5.8	6308.0
9	ANCHOR PIPE SAFETY JOINT	5.000	1.250	4.2	
	FLUSH JOINT ANCHOR	5.000	2.370	46.0	
2		5.000	2.440	4.6	6365.0
		5.000		3.9	6369.0
` <u> </u>	BLANKED-OFF RUNNING CASE	5.000		4.1	6373.0
	TOTAL DEPTH				
					6373.0



182°F 587860-7668

Indicated Flow Capacity

$$kh = \frac{1637 Q_g T}{m}$$

md-ft

Average Effective Permeability

$$k = \frac{kh}{h}$$

md

Skin Factor

S = 1.151 
$$\left[ \frac{m(P^*) - m(P_f)}{m} - LOG \frac{kt}{\phi \mu c_f r_w^2} + 3.23 \right]$$
 ---

Damage Ratio

$$DR = \frac{m(P^*) - m(P_f)}{m(P^*) - m(P_f) - 0.87 \text{ mS}}$$

Indicated Flow Rate (Maximum)

$$AOF_1 = \frac{Q_g m(P^*)}{m(P^*) - m(P_f)}$$

**MCFD** 

Indicated Flow Rate (Minimum)

$$AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_f)}}$$

**MCFD** 

Approx. Radius of Investigation

$$r_i = 0.032 \sqrt{\frac{kt}{-\phi\mu c_t}}$$

ft

#### DIVISION OF OIL AND GAS

### Report on Operations

<u> Jeff Greening, Agent</u>		
AMERICAN HUNTER EXPLORATION, L	Coalinga,	Calif.
611 E. Clay, P. O. Box 468	June 25, 1984	Сащ.
Colusa, CA 95932		
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
Your operations at well "Souza"	1 API No. 019-21924	
Your operations at well "Souza" Sec. 36, T145, R. 12F, M.D. B.& M.	Field, in Fresno	, , , , , , , , , , , , , , , , , , , ,
were witnessed on 6/19/84	T S Boardman	,
the supervisor, was present from 1300 Engineer.	to 1900 There were also present De	ive Gunderson,
Present condition of well: 9-5/8" cem. 17	'09'; 5-1/2" 10,213', c.p. 10,061'-10,0	)60! 9871!-
<u>9870', 9468'-9467', 9352'-9351', 6</u>	553'-6552', 6411'-6410' 1400' perfe	10 0/51 99671
9832'-9689', 9423'-9380', 9199'-91	59', 6491'-6466', 6330'-6310'. T.D. 1	10,0455507.
Bridge plug 10,177', 9670', 9145'.	6401', Retainer 9862', 9460', 6545'	Plugged
w/50 sx of cem. below 9862'. 50 sx	of cem. below 9460', 50 sx of cem. be	102 93/01
Plugged with cem. 6330'-6155'. 140	0'-1200'+, 90'+-5'.	:10w 7.140
The operations were performed for the purpos	se of abandonment.	
, , , , , , , , , , , , , , , , , , ,		
DECISION: THE PLUGGING AND CEMENTI	NG OPERATIONS AS WITNESSED AND REPORTE	משעות מתם א מוי
	THE OF ELLIPSING IN WITHHOUSE AND KEI OKIE	D AKE AFFRUVED.
TSB/bcm		
cc: Company, Canada	2 12 OKC	
cc. company, canada	5000 ole 184	
	768 (1167)	
DEFICIENCIES CORRECTED None		
DEFICIENCIES TO BE CORRECTED		

M. G. MEFFERD

State Oil and Cas Supervisor

By

Richard F. Curtin

Deputy Supervisor

(for)

None

CONTRACTOR: Ganache Well Service, Inc.

#### DIVISION OF OIL AND GAS Cementing/Plugging Memo

API	No	019 2	ican Hunter				Sec.	36		T 145	<b>9</b> 134	= m.D	· B&M
Field	d			Co	unty	Fresmo			_	On 3	une 19. 1	984	
Mr.	<u>۔ ، در ا</u>	SOAFC	Qmad o present_	, rep	resent	ative (	of the	superv	180	r was p	resent f	rom <u>1300</u>	2 to 1900.
Casi	ng re	cord	of well: 9	sk'cen	1709 ;	51/2"ce	<u>em 102 (3</u>	5 cp /	006/	-19060	9871-987	0,9468	-9467 <u>/ 935</u> 2
<u>1351</u>	, <u>655</u>	3-659	52, 6411-6411	5 Perfs	10045	<u>-996</u>	7, 9832	-9689	,94	<u> 23 - 93</u>	80, 9199	-9159	6491-6466
6330	-6310	) ·	TD 10217	. BP 101	77, 967	10, 9145,	640/ Red	P Paller	862	(9460)	6545.	<u>Pi</u>	usged w/
			were perfo									THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN	in of the selection of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section o
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6330	<u>5-619</u>	<u> </u>	1400-1200F	, 90F-	5		<u> </u>	***					
_			ugging/ceme										
			cation and			4			2.7				
Hole	size	;	fr		' to		9	" to	<b>&gt;</b>		\$	" to	*
		-V											Walishan
		Casin	g		Ceme	ented		Тор	of	Fill			· ·
Size	Wt.	Тор	Bottom	Date	MO-De	pth	Volume			Casing	Squeezed Away	1	s. Perfs.
151/2				6/15/84	* *		15 bb/s			7	53 c 🗧 ∓		in 51/2" CS
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											7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
(* L	Displace	ed c	ement from -	whee	with	22 bb	s mud			1			
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			iled to) at				bv						
	-						*					_I	
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# PERMIT TO CONDUCT WELL OPERATIONS

(field code) (area code) Abd. (new pool code) Jeff Greening, Agent AMERICAN HUNTER EXPLORATION LTD. (old pool code) 306 Pescado Circle Coalinga. _, California Rancho Murieta, CA 95683 January 28, 1986 Your... proposal to___ ABANDON "Souza" 1 well_ 019-21924 A.P.I. No.___ Section 36 _, T. <u>14S</u>, R. <u>12E</u>, <u>M.D.</u> B. & M., field,__ area,____ and one that the time that the total day the County, dated 11/12/85, received 1/27/85 has been examined in conjunction with records filed in this office.

THE PROPOSAL, COVERING WORK ALREADY COMPLETED IN ACCORDANCE WITH PRIOR AGREEMENT, IS APPROVED.

Blanket Bond CP/bcm

cc: Company, Canada

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed and the special properties and the second of the second second in the second second second second second second

#### RECEIVED

#### BTATE OF CALIFORNIA DEPARTMENT OF CONBERVATION

## DIVISION OF OIL AND GAS

JAN 27 1986

DIVISION OF OIL & GAS

## Notice of Intention to Abandon Well

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

	FOR DIVISION USE ONLY
DIVISION OF OIL AND GAS	CARDS BOHO FORMS OGD/14 OGD12Y
In compliance with Section 3229, Division 3, Public Resou	rces Code, notice is hereby given that it is our intention
to abandon well <u>AMERICAN HUNTER SOUZA #1</u>	
Sec. 36 , T. 14S , R. 12E , MD B. & M.,	,
commencing work on NOVEMBER 4th , 19 83	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
The present condition of the well is: Plugged & Abandone	Additional data for dry hole (show depths):
<ol> <li>Total depth 10,217</li> <li>Complete casing record, including plugs and perforations Casing: 9-5/8", 36#/ft, K55, LT&amp;C @ 1709' 5-1/2", 20#/ft, L80, LT&amp;C @ 10213' Perfs: Lathrop 9990-9999,9975-9986,9967-9971 Set cement retainer @ 9862',</li> </ol>	5. Oil or gas shows DST #1: 6201-6249 Moreno, GTS - 5' flame DST #2: 6308-6373 Moreno, GTS - 750 MCF DST #3: 6463-6512 Moreno, GTS - 400 MCF DST #4, #5: 9156-9200 Lathrop - MR DST #6, #7, #8: 9382-9433, 9652-9778 Lathrop-MR
squeeze 6 bbls. cement Lathrop 9832-9698, 172 shots Set bridge plug @ 9670' cont'd below  3. Last produced (Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D) or	6. Stratigraphic markers Moreno Shale 5130 Tumey 2572 Bluewett 6540 Kreyenhegen 2992 Tracey 7437 Domengine 3655 Lathrop 9159 7. Formation and age at total depth
4. Last injected N/A  (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)	Lathrop
The proposed work is as follows:  Perfs: Lathrop 9380-9423, 86 shots  Set cement retainer @ 9340'  Squeeze 50 sks cement  Lathrop 9192-9199, 9182-9185, 9159-9176, 57 sl  Set bridge plug @ 9145'  Moreno 6491-6466  Set bridge plug @ 6401'  Moreno 6310-6330  Spot 6 bbls. cement across perfs.  9-5/8"-5-1/2" Casing Annulus: 1399-1400  Circulate 15 bbls. cement between Inside 5-1/2" Casing: Spot 2 bbls. cement in comparison of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second	hots en casings
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Calgany ATL 1 Tab and	MERICAN HUNTER EXPLORATION LTD. (Name of Operator)
Calgary Alberta T2P 3A8 By (State)	RAY SHEPERT

(Signature)

(Date)

Telephone Number <u>(403)</u>

00100 1010 1 1011100 10111

[Area Code]

260-1824

(Number)

10,213

#### MEMORANDUM OF TELEPHONE OR PERSONAL CO. VERSATION

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	risen	JUNE	18	1984
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Field FRESNO COUNTY	Sec. 36 T	. 145. R. I	25	M.D. B&M
personal A telephone conversation was held, concer	ming above	well, wit	h Mr. Pa	VE GUNDERSE
for above operato	or on June	. 18	1984	9 30 A.M. at 8 40 A.M.
Details of the conversation were as follo	ws:			The control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co
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# MEMORAN OF TELEPHONE OR PERSONAL CONVERSATION (Proposed Well Operations)

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# MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION

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

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## MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION

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		APRIL 26	19 <i>84</i>
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# MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION (Proposed Well Operations)

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# MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION

	COALINGA, Calif.
	<u>DECEMBER</u> 7 1983
Operator AMERICAN HUNTER	
Field FRESING CO.	Sec. 36 T. 145. R. 12E. M. D B&M
personal A telephone conversation was held, concer	
(403) 260-1740 for above operator	or on December 7 1983 at 3:00 P.M.
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	Signed) (Value)
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# MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION (Proposed Well Operations)

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## américan hunter

TRANSMITTAL		
TO: State of California	DATE	- April 19,1984
Oil and Gas Commission		
PO Box 60 RE: WELL NAME: American Auster Souze	#1 <u></u>	
Coalman, CA 98210 500 36- F145, R12E, F	<u>.</u> ድ፡፡ /ለው	Co., CA-
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REMARKS: The Division of Oil and Gas requires duplicate set	s of	records,
Logs, histories etc. Please send 1 more set of a	l lo	gs listed above.
RECEIVED W: 7.5 Bondman DATE: 4/2	154	Thank you
DIMEN ACCUMULATION DECETTOR BY SECULIAL AND DETURMENCE	ur	

ENCLOSED COPY.

#### DIVISION OF OIL AND GAS

## Report on Operations

AMERICAN HUNTER EXPLORATION, LTD. 611 E. Clay, P. O. Box 468 Colusa, CA 95932	Coalinga, November 10, 1983	Calif.
Your operations at well "Souza" 1 Sec. 36, T.14, SR. 12E, M.D., B.& M were witnessed on 11/8/83 the supervisor, was present from 0130 to 032 Pusher for Montgomery Present condition of well: 9-5/8" cem. 1709'.	Field, in Fresno C. Parli There were also present Jo	County, , representative of oe Lindsey,
The operations were performed for the purpose of <u>test</u> and installation.  DECISION: THE BLOWOUT PREVENTION EQUIPMENT.		
CP/bcm cc: Company, Canada		
DEFICIENCIES CORRECTED None		
DEFICIENCIES TO BE CORRECTED None		
CONTRACTOR: Montgomery Drilling		

By Deputy Supervisor (for)

Richard F. Curtin

# DIVISION OF OIL AND GAS

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# DEFICIENCIES - TO BE CORRECTED NONE

DEFICIENCIES - CORRECTED NONE

CONTRACTOR MONT Gomery Drilling

REPORT ON PRO	POSED OPERATIONS (field code)
	(area code)
	(new pool code)
Jeff Greening, Agent	also can
AMERICAN HUNTER EXPLORATION LTD.	(old pool code)
P. O. Box 468	Coalinga, California
Colusa, CA 95932	October 13, 1983
Your proposal todrill	well "Souza" 1
	66 , T. 14S , R. 12E , M.D. B. & M.,
were sever and and any any edit and and and and and and and	MOO! and also time time who what time who what time who who time time time time time time time time
Fresno County, dated 10/6/83 rec	reived 10/12/83 has been examined in conjunction with records
filed in this office.	sas soon examined in conjunction with records

#### THE PROPOSAL IS APPROVED PROVIDED:

- 1. Sufficient cement shall be pumped back of the 9-5/8" casing to fill to the surface.
- Mud fluid of sufficient weight and proper consistency to prevent blowouts shall be used in drilling, and the column of mud fluid shall be maintained to the surface at all times, particularly while pulling the drill pipe.
- Blowout prevention equipment conforming to Division of Oil and Gas Class III A 3M is installed on the 9-5/8" casing and maintained ready for use at all times. Copy of requirements is enclosed.
- Blowout-prevention practice drills are conducted at least weekly and recorded in the log book.
- Sufficient cement shall be used to fill the annular space behind the 5-1/2" casing to at least 500' above oil and gas zones and excessive pressure intervals.
- THIS DIVISION SHALL BE NOTIFIED: 6.
  - TO WITNESS a pressure test of the blowout-prevention equipment prior to drilling out the shoe of the 9-5/8" casing.
  - TO WITNESS a test of the 5-1/2" water shut-off immediately above the objective zone.

NOTE: To contact this Division call (209) 935-2941.

Blanket Bond VEV/bcm cc: Company, Canada

M. G. MEFFERD, State Oil and Gas Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS



Notice of Intention to Drill New Well

DIVISION OF OIL & CAS

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C	2016	Reverse Side		W 3-9	<u> 49                                   </u>	
In complian	rice with So	<del>ection 3203,</del> Divis	sion 3, Public	Resources Coe	le, notice is herel	by given that it is
intention to co	ommence d	rilling well	"SOUZA" 1		, API No.	019-219
Sec36, T	14S, R.12	E, M.D.B. & M	1.,		_Field,Fresi	noCou
Legal descript	tion of mine	eral-right lease, co	nsisting of	640 acı	es, is as follows:_	(Attach map or plat to scal
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If well is to be	directional	lly drilled, show pfeet(Direct	ond		irface location) at	t total depth:
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Elevation of gro	WEIGHT  36#  17#  (A complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete or complete	GRADE AND TYPE  K55  MN80  drilling program is prof (9245'), 43 (Name, depth, and if changes in this Exploration Avenue S.W.	Surface Surface Surface Surface Surface Surface Surface Top Surface Surface Surface Top Surface Surface Top Surface Surface Surface Top Surface Surface Surface	BOTTOM  1700'  10,200'  be submitted in Inormal H 2  necessary we pe of,Organization  Corporation	that is 26  that is 26  AM  CEMENTING DEPTHS  0 - 1700  10200-6150 3800-1700  ieu of the above progration of the above progration of the ship is a second of the above progration. Partnership is a second of the above progration of the above progration of the above progration of the above progration of the above progration. On	t total depth:  feet  feet above groun  CALCULATED FILL BEHIND CASING  800 ft.  1228 ft. 640 ft.  ram.)  al depth  immediately.  p, Individual, etc.)  Zip Code

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.



Resources and Development Department

#### WAIVER OF APPEAL PERIOD

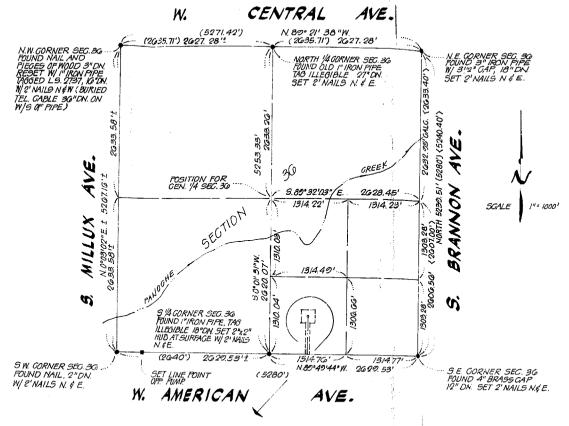
Application	CUP	#2016	
Date Approved	10/1	2/93	
Required Appeal	Period	15 DAYS	72

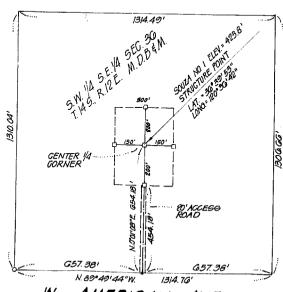
The undersigned hereby agrees to meet all the requirements of the above approval, and requests the Director of the Resources and Development Department of the County of Fresno to issue all necessary construction permits and perform the necessary construction inspections to determine Code compliance authorized by the above approval prior to the expiration of the required appeal period.

The undersigned further agrees that should the above application not become effective for any reason, the permittee or owner shall remove any improvements or construction authorized by this application (if in conflict with existing zoning regulations) within 30 days after written notice from the Director of the Department of Resources and Development, and restore said property as nearly as practicable to it's prior condition.

The undersigned further agrees to hold the County of Fresno harmless for any damages incurred in the event the removal of the improvements are required as provided above; the undersigned also agrees to pay all costs of court and counsel incurred in the event legal action is required to enforce the provisions of this waiver.

Owner's Name	Permittee's Name Experien LTP:
Signed	Signed Michaela
Date:	Date: 007 12, 1983
Accepted By Accepted By	Date: 10/12/63,





W. AMERICAN SCALE : 1"= 300"

#### LEGEND

- CORNERS FOUND AND ACCEPTED AS NOTED
- SET I"X 2" STAKES, FLUSH
- DATA PER GOVERNMENT SURVEY
- DATA PER SCOTT MCKAY RECORD BK G2 FG. 14 MARCH 1912.
- SET NAIL AND TIN

#### MAP OF SURVEY OF SECTION 30, T.145, R.12E., M.D.B. &M.

for AMERICAN HUNTER EXPLORATION L.T.D.

W.O. OENTRY 4780 E. TULARE AVE. TELEPHONE

LIGENGED LAND SURVEYOR FRESNO, CALIFORNIA 93702 (209), 251-7527

# Well Records for Artificial Penetration #20 Blue Agave #1 (API No. 1924225)



## DEPARTMENT OF CONSERVATION

Managing California's Working Lands

Division of Oil, Gas, & Geothermal Resources

466 North 5th Street • COALINGA, CALIFORNIA, 93210

PHONE 559/935-2941 • FAX 559/935-5154 • WEBSITE conservation.ca.gov

#### **COMPLIANCE LETTER**

March 17, 2016

Mr. Steve Black Holmes Western Oil Corporation 4300 Midway Road Taft, CA 93268

FIELD: Coalinga; LEASE: ; SEC.8 T.21S R.15E

DATE OF INSPECTION: 03/16/2016

INSPECTOR: Colin Lawson

Dear Mr. Black:

The inspection listed above has determined that the following **Lease** is in compliance with the Division of Oil and Gas environmental regulations. If you have any questions regarding this matter, please contact the above referenced inspector, at (559) 935-2941.

Sincerely,

Tim Boardman District Deputy

37720.CMP



#### DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES 466 N. Fifth Street Coalinga, CA 93210-1793 Phone:(559) 935-2941 Fax:(559) 935-5154

#### REPORT OF WELL ABANDONMENT

Coalinga, California March 14, 2016

Mr. Wolf E. Regener R&R Resources, LLC (R0177) 760 Paseo Camarillo, Suite 350 Camarillo, CA 93010

Your report of abandonment of well "Blue Agave" 1, A.P.I. No. 019-24225, Section 32, T. 14S, R. 13E, MD B.&M., Cheney Ranch Gas field, Fresno County, dated 2/25/2016, received 3/14/2016, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and filling of well records.

#### NOTE:

- 1. Surface plugging completed on 11/24/2015.
- 2. Site inspection made and approved on 12/8/2015.

Blanket Bond

Kenneth A. Harris Jr. State Oil and Gas Supervisor

Tim Boardman

Senior Oil & Gas Engineer

gm



#### DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES 466 N. Fifth Street Coalinga, CA 93210-1793 Phone:(559) 935-2941 Fax:(559) 935-5154

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Blanket Bond

Kenneth A. Harris Jr. State Oil and Gas Supervisor

Tim Boardman

Senior Oil & Gas Engineer

gm

# DIVISION OF OIL, GAS GEOTHERMAL RESOURCES CHECK LIST - RECORDS RECEIVED AND WELL STATUS

company R&R Resources, LLC Well N	"Blue Agave" 1		
PI# 019-24225 Sec. 32 , T. 14S ,			
ield Cheney Ranch Gas (ABD)	County Fresno		
Well Type Well Status	Electric Logs		
DG ABD			
Old pool			
RECORDS COMPLETE 3-14-16 6M	-		
Wellstat 1/23, C.L. 12/3/2015			
Wellstat	•		
Surface Inspection 4th, C.V. 12/0/2019	•		
CLOSE "P" 3-14-16 GM			
Notes:			
•			

#### RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

#### HISTORY OF OIL OR GAS WELL

Operator R&R Resources, LLC	Field Cheney Ranch	Field Cheney Ranch County Free		0
Well Blue Agave #1	Sec. 3	32 T. <u>14S</u>	R. <u>13E</u>	MDB.&M.
A.P.I. No. 019-24225	Name Wolf Regener	Title Pre	sident	
Date 02/25/2016 (Month, day, year)	(Person submitting report) (President, Secretary, or Agent)  Signature		, or Agent)	
Address 760 Paseo Camarillo, Suite 350, Cama	rillo, CA 93010	Telephone Nu	mber <u>805-484-3</u>	8613

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

#### Date 11-20-15

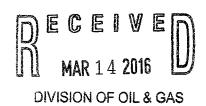
Start JSA. Meet and greet with Rig, Harzard hunt, tailgate meeting. Spot and Rig up equipment. Safety meeting before coil RIH. RIH with Coil and Tag @887'. DOGGR requested to circulate down to 1,160'. Attempted to make hole, made hole down to 894' w/40 bbl H20. Safety meeting before pumping Cement. Pumped 3 bbl H20 ahead. Mixed and pumped 410 cuft (73 bbl) class G-35% SF @15.6 ppg @1.3 BPM @ 2800 psi while coil came out of hole @23 ft/minute. Brining cement from 894' to surface, displaced coil with 9 BBL H20, shutdown. Wash through coil. Rig down coil, wash pumps and lines. RDMO, run in hole and cleanout to 382 feet.

11-23-15 Cut off wellhead

11-25-15 DOGGR confirmed surface plug (Colin Lawson)

11-27-15 Welded plate on conductor, backfilled and cleaned location

11-30-15 DOGGR confirmed location cleanup



**COALINGA** 

# R & R RESOURCES, LLC

March 10, 2016

Department of Conservation Division of Oil, Gas & Geothermal Resources 466 N Fifth Street Coalinga, CA 93210-1793

## Blue Agave 1

Dear Ladies and/or Gentlemen:

Enclosed are two originals of the well history for the abandonment of the Blue Agave #1 well.

If you need anything else please let us know.

Sincerely,

Wolf E. Regener President

WER NSP Enclosures DECEIVED

MAR 14 2016

DIVISION OF OIL & GAS

**COALINGA** 



# NATURAL RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

## DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES

466 N. Fifth Street, Coalinga, CA 93210-1793 Phone: (559) 935-2941

#### NOTICE OF RECORDS DUE

Coalinga, California 3/2/2016

Mr. WolfE. Regener R&R Resources, LLC (R0177) 760 Paseo Camarillo, Suite 350 Camarillo, CA 93010

In accordance with Divisio	n 3 of the Californi	a Public Resourd	ces Code, the	following	g records are due	
( covering the abandonment notice	ce dated 10/8/2015	5) for your well. '	'Blue Agave"	1	(019-24225).	
Cheney Ranch Gas Field, F	resno County,	Sec. 32, T.	14S, R.	13E, MI	D B.&M.	
Records, in duplicate are due wit result in enforcement action, inclu						
Well Summary (Form OG 10	00)	Ali Logs			Velocity Su	rvey
X History (Form OG 103, OG	<del>3</del> 103)	Dipmeter (	computed)		Temperatu	e Survey
Core of sidewall sample (Form OG 101, OGG 101)		Oil and/or	gas analysis		Spinner sur	vey
Directional survey		Water ana	lysis	<u> </u>	Standard A	nnular Pressure Test
Other		Pressure r (flowing or	neasurement static)	s	RA Tracer : (fluid migra	•
REPORTS FOR THE MONTH O	F	: Production, oil	and gas disp	osition, a	nd injection repor	ts are due on or before
the 30th day of each month for th	ne preceding calen	dar month. Divis	ion forms mu	st be sign	ned in the spaces	provided.
OIL AND GAS OPERATIO	N	GEOTHER	RMAL OPER	ATION		
Production and disposition (Form OG 110 or computer	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Production (Form OG	•			
Injection reports (Form OG 110B or compute	er report)	Injection re (Form OG	•			
Name: Glenn Muggelberg	Title:	Associate Oil 8	Gas Engine	er	Signature:	2 Migell



### DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES 466 N. Fifth Street Coalinga, CA 93210-1793 Phone:(559) 935-2941 Fax:(559) 935-5154

## REPORT ON OPERATIONS

No. T**515-0252** 

Mr. Wolf E. Regener R&R Resources, LLC (R0177) 760 Paseo Camarillo, Suite 350 Camarillo, CA 93010 Coalinga, California December 08, 2015

Your operations at well "Blue Agave" 1, A.P.I. No. 019-24225, Sec. 32, T. 14S, R. 13E, MD B. & M., Cheney Ranch Gas field, in Fresno County, were witnessed on 11/25/2015. Colin Lawson, a representative of the supervisor, was present from 0800 to 1100. Also present was N/A.

The operations were performed for the purpose of **abandonment**.

#### **DECISION:**

THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Kenneth A. Harris, Jr. State Oil and Gas Supervisor

Tim Boardman / District Deputy

COL/col OG109

API#	019-242	25												l <del>1</del>	+		
Operator			R8	R Resour	ces, L	LLC				Field	d b	Chene	y Ra	nch G	as	(ABD)	
					o. "Blue Agave" 1					Cou	nty		Fresno	<b>)</b>			
Casing H	listory			ED 1160'.													
On Nove present N		2015, 0	Colin	Lawson, re	eprese	entative	of the	supe	ervisor,	was pre	esent from 0	8:00 to	11:0	00 Th€	ere v	was also	
The oper	ations we	ere perf	orme	d for the p	urpose	e of aba	ndonn	nent									
		Decisi	on:	APPRO	OVED												
		Defici	encie	s: None													
												·		1.			
Mudding				Date	Bb	ols.		Place	ement m	ethod		Filled	to:		Engi	neer	
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Shot type		From	То	Date	Engin	neer			Date	Method	d			Sqz. vo	l.   F	inal pres.	Ann. fill
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Date	Material	Volum		ing method	scu	Time	Engine	er		Depth	Location meth		Date		me	Engineer	
	Cement									894	CTU C/O	-	11/20/	2015 10	0:00	C. Lawso	n
11/20/2015	Cement	410ct	СТІ	J @ 894		10:00	C. Lav	vson		5	Visual		11/24/	2015 9	:00	C. Lawso	n
					<del></del>				- A-83			1-6					
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			<u> </u>														
Junk in h	ole:																

Comments

Contractor: GPS



#### NATURAL RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL. GAS & GEOTHERMAL RESOURCES 466 N. Fifth Street Coalinga, CA 93210 - 1793

## PERMIT TO CONDUCT WELL OPERATIONS

Old New 134 00 05 ABD POOL CODE

No. P 515-0321

Coalinga, California October 08, 2015

Mr. Wolf E. Regener, Agent R&R Resources, LLC (R0177) 760 Paseo Camarillo, Suite 350 Camarillo, CA 93010

Your proposal to (Re) Abandon well "Blue Agave" 1, A.P.I. No. 019-24225, Section 32, T. 14S, R. 13E, MD B. & M., Cheney Ranch Gas field, Any area, U. Cretaceous pool, Fresno County, dated 9/20/2015, received 10/5/2015 has been examined in conjunction with records filed in this office. (Lat: 36.670152 Long: -120.585760 Datum:83)

THIS PERMIT CONTAINS SIGNIFICANT VARIATIONS ON YOUR PROPOSAL. PLEASE READ *****NOTE: CAREFULLY BEFORE PROCEEDING WITH WORK.*****

### THE PROPOSAL IS APPROVED PROVIDED:

- 1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
  - a. Class II2M on the 9 5/8" casing.
- The well is plugged with cement from 870' to 770'.
- 3. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 72 lbs/cu.ft and a minimum gel shear strength of 20 lbs./100 sq. ft.
- 4. All casing must be removed from between 5' and 10' below ground level.
- 5. A steel plate, at least as thick as the outer well casing and bearing the last five digits of the API number, shall be tack welded around the top circumference of the outer casing.
- 6. Well site restoration shall be completed within 60 days following the completion of plugging operations.
- 7. THIS DIVISION SHALL BE NOTIFIED TO:
  - a. Witness a test of the installed blowout prevention equipment prior to commencing Abandonment operations.
  - b. Witness the clean-out depth at 1160'.
  - c. Witness the mudding operations.
  - d. Witness the placing, location and hardness of the cement plug from 870' to 770'.
  - e. Witness the mudding operations.
  - Witness the placing, location and hardness of the cement plug from 30' to 5'.
  - g. Witness the location and hardness of cement at surface, including all annular spaces.
  - h. Inspect the restored well site.

#### NOTE:

1. The top of the hydrocarbon zone is at 7350'±.

Blanket Bond Dated: 3/30/2000 CC!

Engineer Benjamin Goldstone

Direct

(559) 935-2941

Office

(559) 935-2941

BG1/bg1

Steven Bohlen State Oil and Gas Supervisor

Tim ₿oardman, *District Deputy* 

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.



# NATURAL RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

. TO F	OR DIVISIO	N USE ON	ILY
	Fori	ms	41977
Bond	OGD114	OGD121	
В	Cul	/	

# NOTICE OF INTENTION TO ABANDON / RE-ABANDON WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog

In compliance with Section 3229, Divi abandon ☑ / re-abandon ☑ well Bl		ources Code, notice is I	nereby given tha , API No. <u>0</u>		on to
Sec. 32 (Check one) , T. 14S , R. 13E	, <u>MD</u> B.&M.,	Cheney Ranch	Field,	Fresno	County.
The complete casing record of the schematics diagram also.) 16" 0.375" wall pipe from surface to 9 5/8" 36# K-55 LT&C casing cemer Cement plug set across fresh wate witnessed by DOG and approved 1	o 40 ft nted with 260 sack r: 130 sacks Class	ks of cement from 820	' to surface.	·	
The total depth is: 7,753' fee	t.	The ef	fective depth is:	1,160	feet.
Present completion zone(s): N/A	(Name)	. Prese	nt zone pressure	: <u>N/A</u>	_ psi.
Oil or gas shows: Minor Gas -Cheney		10 feet. Depth	to base of fresh	water: 1,345	feet.
Top of uppermost hydrocarbon zone			(Dep	show at 7,350 th of interval)	feet.
Is this a critical well as defined in the  The proposed work is as follows:  1) Move in Rig up. Install BOP.  2) Lay cement plug from 1,250' to 1,1  3) Pump mud from top of plug to surfall Set 25' cement surface plug  5) Cut off casing 5' below ground level  6) Rig down, move off  7) Clean up location	(A complete progr 00'. ace	ram is preferred and n			OCT 05 2015  OVISION OF OIL & COALINGA
The Division must be notified immediaccurate representation of the well					rue and
Name of Operator R&R Resources, LLC				-	
Address 760 Paseo Camarillo, Suite 350		City/State Camarillo			Code 010
Name of Person Filling Notice Wolf Regener	Telephone Number: 805-484-3613	Signature		Dat 9/2	e 20/15
Individual to contact for technical questions: Wolf Regener	Telephone Number: 805-484-3613	E-Mail Address wregener@	r-rresources.com	1	

This notice must be filed, and approval given, before plugging and abandonment operations begin. If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

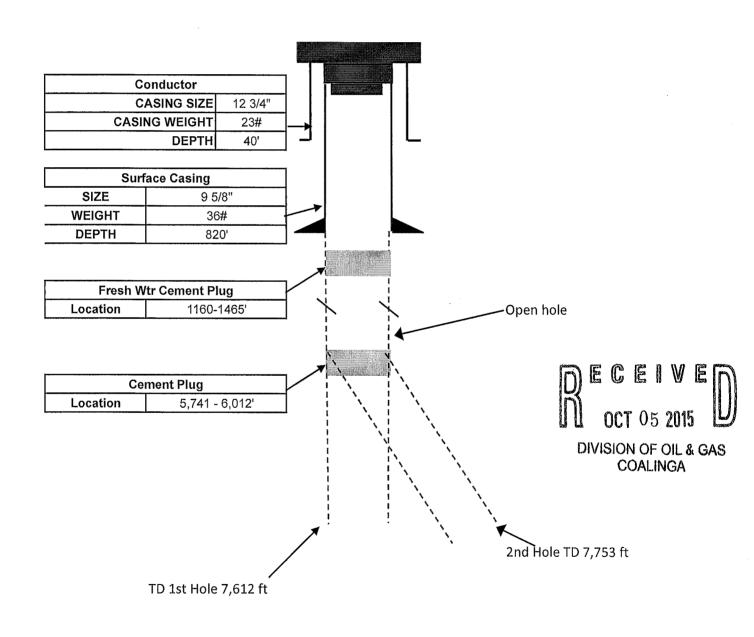
# **WELL BORE SCHEMATIC**

API#: 019-24225

WELL NAME: Blue Agave #1

Area: Cheney Ranch

Location: Sec 32, T 14S, R13E MD B&M



# DIVI N OF OIL, GAS GEOTHERMAL RESOU ES CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Compa	R & R Resources LLC	Well No		"Blue Agave" 1
API#_	019-24225 Sec. 32	т. <u>14S</u> , к	<b>13E</b> , M. D. B. 8	§ М.
Field _	Cheney Ranch Gas	<del></del>	County	Fresno
	Oil  Gas  Gas-Open to Oil Zone  Drilling  Dry Hole  Gas Storage  Observation  Waterflood Source	Water Disposal Waterflood Steamflood Fire Flood Air Injection Gas Injection CO Injection LPG ² Injection		Completed  Recompleted  Idle  Abandoned  Abandoned BLM  Pool  Pool  Dynly
	ENGINEER'S CHECK LIST			CLERICAL CHECK LIST
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Well Designation Location Elevation Notices "T" Reports Casing Record Plugs Surface Inspection Production		3. Form OG 4. Form OG 5. P.I. 6. EDP	Abandon Pool/Type/_ Date/_ (Conversions Only)
	Directional Survey  Electric Logs		NOT APPRO\ Reason:	/ED
	res spe pen buil sp. west 2'es Ind Fware sonic 245  C. Micro Imager 5-  11V9  vd Leg	3 (2) " (2) (3)		
			Return to:	Deal
REC	CORDS READY FOR P.I. 11-3-	By _		
APPF	ROVED 11-3-03 gs			BOND /Vu Blanket
Data	entry		MAP AND MA	(Use date last needed records were received)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

W	/FI	1	SI	IN	ЛΝ	ΙΔ	R/	/ R	FD	OR'	Г
w 1	<i>-</i>			,,,,,	71 IVI	_				l Jr	1

API NO. 019-24225

Operator R&R Resources, LLC Field Cheney Ranch Location (Give surface location from prop 2,500.99' South and 100' East from the California Coordinates (if known):	perty or section	corner, s	,	Well Blue Aga County Fresno	ave #1		Se		R.	B.&M.
Cheney Ranch  Location (Give surface location from prop 2,500.99' South and 100' East from the California Coordinates (if known):	perty or section	corner, s		1					R.	B.&M.
2,500.99' South and 100' East from the California Coordinates (if known):	erty or section NW Corner o	corner, s					32	148	13E	MD
		f Section	32	r line)			Ele 38:	vation of ground	nd above sea	a level
Was the well directionally drilled? 1307.06' North and 730.7' West.	l Yes □ N	lo if	yes, show	coordinate	s at total o	depth. 1 st Hole	1404.79	North & 1	3.54' East	, Redrill is
Commenced drilling (date) 9/28/02	(1st hole)	(2:	depth nd)	(3rd)	Depth	measuremen errick Floor D	ts taken f Rotary	from top of:  Table	Kelly Bus	hing
Completed drilling (date) 10/24/02 Commenced production/injection (date)	7612'		53'		Which		HAED C	feet abo	ve ground	l
N/A  Production mode: ☐ Flowing  ☐ Pumping ☐ Gas lift  Name of production/injection zone(s)  N/A	Present effe	cuve dep	tn 1,160		- GEO	DIVISIO	CION OF	2003 OIL & G/		
			•••			ation and age ev Sands. Up	COALIN at total de	VGA epth		fresh water
Clean Oil (bbl per day)  Initial Production	API Gra (clean			nt Water g emulsion)		Gas per day)		Pressure	Casing	y Pressure
Production N/A After 30 days										
	CASIN	ig and c	EMENTIN	G RECOR	D (Presen	t Hole)	*			
Size of Casing Top of (API) Casing Depth of Shoe	Weight of Casing	Ca	nd Type of sing	New (N) or Used (U)	Size of Hole Drilled	Number of S Cubic Feet of		Depth of Co (if thro perfora	ugh	Top(s) of Cement in Annulus
16" Surface 40'		0.375" \	wall pipe	Used				:		Surface
9 5/8" Surface 820'	36#	K-55 LT	Г&C	New	12 1/4"	260 sacks		820		Surface
					,					
PERFORATED CASING (Size, top, botton/A	om, perforated	intervals,	size and s	pacing of p	erforations	s, and method	.)		7. 1 ¹ 10-ma	
HRI, Sonic, EMI 7590' to 820', Shiva 7,6 HRI/Density/Neutron 7707' to 5485' in 1	600' to 6,050' i redrill.	n 1st Hol		,,						,
In compliance with Sec. 3215, Division 3,	, of the <i>Public I</i> ereon, so far a	Resource: s can be	s Code, the determined	e informatio I from all av	n given he vailable re	erewith is a co cords.	mplete aı	nd correct re	ecord of th	e present
condition of the well and all work done the						Agent		1		
Name R&R Resources, LLC								·, · · · ·		
Name			) majure			City/State > Camarillo,	Californ	nia		Zip Code 13010

# REPORT OF CORRECTION OR CANCELLATION

Mr. Wolf E. Regener R & R Resources LLC 601 Daily Drive Suite 215 Camarillo, CA 93010

Coalinga, California November 3, 2003

In ac	cordance with	the su	mmary dated 1/12/20	003	
the f	ollowing change pertaining t	o your well	"Blue A	\gave" 1	
API	019-24225 . ,	Cheney Ranch Ga	s field	Fresno	County,
Sec.	32, T14S_	, R <u>13E</u>	_ , M.D. B. & M., is b	eing made to	our records:
X	The corrected location is: Fr NW cor 2501' S 100' E			i	
· 	The corrected elevation is				
	Report No				
				:	
	Your notice to	received	, and ou	r report No. F	· 
	issued in answer thereto, a have an individual bond on is necessary.	re hereby cancelled	inasmuch as the wor	rk will not be	done. If you
	Other:				
				·	
		Clifford	d E. Parli	Parl	

Energy & Mineral Resources Engineer

### DIVISION OF OIL AND GAS

#### HISTORY OF OIL OR GAS WELL

Operator <u>R&R Resources, LLC</u> Field <u>C</u> Well Blue Agave #1 Section 32 ,T

Field Cheney Ranch

Section 32 ,T 14S, R 13E, MDB&M

Date January 12, 2003.

API No 019-24225

Name Wolf E. Regener Title: Agent

County Fresno

Page 1

Signature_

601 Daily Drive, Suite 210, Camarillo, California 98010 (805) 484-9648



- 8/22/02 Staked location 2,500.99' South and 100 East from the NW Corner of Section 32, T14S, R13E, MDB&M, elevation 385'.
- 9/13/02 Built the location, dug the drilling sump, set 40' of 16" conductor pipe, cemented in place, set an 8' cellar and drilled the rat and mouse holes.

9/26/02 Loading out rig and moving in on location.

- 9/28/02 Rigged up Caza rig 514. Take on water, weld pitcher nipple and mix spud mud. Rig on books as of 1 o'clock. Drilled to 573, circulated and wiped to bit. Drilled to 820', circulated bottoms up, wiped hole to bit, ran in hole, circulated bottoms up and pulled out for casing.
- 9/29/02 Laid down collars and bit. Rigged up casing tongs and ran 9 5/8" casing at 820', ran 18 joints 36# K55 LT&C, including guide shoe and insert. Rigged up Halliburton and cemented casing with 165 sacks class G, premixed 6% gel, 2% cacl2, followed by 95 sacks class G, premixed 2% cacl2, dropped plug, good returns, bumped plug, in place at 11:57 AM. Waited on cement. Cut off conductor and Casing, dressed and welded casing head. Tested head to 2000 ok. Rigged up Halliburton for top cement job, with 100 sacks class G cement, premixed 2% cacl2. Cement in place at 5:50 PM. Rig down cementers. Nippled up BOP and function tested rams, ok. Made up BHA and ran in hole to 760. Tested BOP for DOG, approved.
- 9/30/02 Finished testing for DOG. Drilled out insert and shoe, circulated and conditioned hole. Drilled to 900', circulated and pulled out of hole, picked up directional tools and made up BHA. Oriented MWD and ran in hole. Drilled to 1,352', circulated and pulled out of hole for jars. Picked up Jars, Jars defective. Layed down jars, check MWD, didn't work, fixed. Drilled to 1,710', circulated and wiped hole to shoe, free. Drilled to 1765'
- 10/1/02 Drill to 2,150', Wipe hole 10 stands, free. Drill to 2622, circulate and wipe hole to shoe. Free. Drill to 2627, Circulate and pull out of hole for new BHA. Lay down mud motor. Pickup tools and make up lock up assembly. Run in hole. Ream from 2535 to 2627. Drill to 2835.
- 10/2/02 Drill to 3,139. Circulate and pull out of hole for MWD failure. Change out MWD and run in hole. Drill to 3416', Circulate and wipe hole 10 stands. (50K spot drag). Drill to 3542', circulate pull out of hole for MWD failure. Lay down MWD, install Totco ring and run in hole. Drill to 3,740.
- 10/3/02 Drill to 3,820. Circulate and wipe hole 10 stands, 45,000 spot drag. Drill to 4,038, circulate and wipe hole 10 stands (35,000# spot drag). Drill to 4,287', Circulate and wipe hole 10 stands (20 to 50K over from 3942 to 4200). Drill to 4505. Circulate and survey to 4505'. Drill to 4,785. Circulate and pull out of hole for new BHA.
- 10/4/02 Circulate and clean hole. Pull out of hole. Work tite hole from 3562 to 3431', Condition mud. Pull out of hole. Lay down collars and stabs and change bit. Pickup new BHA. Run in hole. Ream from 3540 to 3875'. Run in hole to 4211. Ream to 4785. Drill to 4955, wipe hole to 3838 (120,000# over) Drill to 5109..

## DIVISION OF OIL AND GAS

#### HISTORY OF OIL OR GAS WELL

Field Cheney Ranch Operator R&R Resources, LLC Well <u>Blue Agave #1</u>

County Fresno

API No <u>019-2422</u>5

Section <u>32</u>,T <u>14S</u>, R <u>13E</u>, MDB&M Name Wolf E. Regener

Title: Agent

Date January 12, 2003.

OIL &

10/5/02 Circulate and clean hole, wipe to 4,492' (50K spot drag) Drill to 5,295', circ and survey 5295'. Pull out of hole. Work tite hole (50 to 100K over) Condition mud and bring mud weight up. Ream 4870 to 5295. Condition mud and bring mud weight up. Wipe hole to shoe. Slip and cut drill line. Run in hole. Ream 5235 to 5295'. Drill to 5,358'.

Drill to 5,360'. Circulate and wipe hole 10 stands. (30K spot drag) Drill to 5453. Pull 10/6/02 out of hole, work through tite spot from 5480 to 5280, (120,000# over). Con't pulling out of hole. Look for washout. None. Slip and cut drill line. Make up bit with 14, 2x13's, jets. Run in hole to 5,260'. Ream 5,260 to 5453'. Drill to 5,544'. Depth midnight 5500'. Circulate and wipe hole 10 stands (30-40K spot drag) Drill to 5,668'.

10/7/02 Circulate and wipe hole (free). Drill to 5,792'. Circulate and survey 5792'. Wipe hole 10 stands (tite 5751' - 5472). Drill to 5885'. Circulate and wipe hole.  $2^{nd}$  and  $3^{nd}$ stands pulled 50-100K over. Work tite hole and pull out of hole. Change jets to 3 x 15's. Run in hole. No drag and no fill. Drill to 5915'.

Drill to 5,975'. Circulate and wipe hole. 2nd and 3rd stands pulled 10-16K over. Drill to 6,069'. Wipe hole 10 stands (10-20K spot drag). Drill to 6,160' Circulate and wipe hole (20-40K spot drag) Drill to 6,246'. Circulate and wipe hole 10 stands (40K spot drag). Drill to 6,316'. Circulate and survey @6316'.

10/9/02 Survey at 6,316'. Pull out of hole. Lay down Bottom hole assembly and pick up new PDC bit and bottom hole assembly. Run in hole. Drill to 6,379. Circulate and wipe hole 10 stands, free. Drill to 6504', Circulate and wipe hole 10 stands, free. Drill to 6645. Circulate and survey, 1st survey no good. Rerun survey. Wipe hole 10 stands, free. Drill to 6657'.

10/10/02 Drill to 6901'. Circulate and wipe hole. 10 stands (10-30K spot drag. Drill to 7090'. Circulate and survey @ 7090'. Wipe hole 10 mstds (10-30K spot drag). Drill to 7352'. Circulate bottoms up. Pull out of hole to shoe. Run in hole. Drill to 7552'.

10/11/02 Drill to 7612'. Circulate and wipe hole. 15 stands (10-20K spot drag. Circulate and survey @ 7612'. Pull out of hole F/logs. Run Halliburton HRI/Sonic/EMI. Run in hole to 6000'.

10/12/02 Run in hole open ended to 6012'. Circulate and condition mud. Rig up Halliburton cementers and pump 120 sacks, west coast Premium Hi Temp cement, kick off plug @6012. estimated top of cement 5712'. Pull out of hole to 5600'. Circulate pipe clear and rig down cementers. Wait on cement and circulate. Run in hole and tag top of cement at 5741' with 10,000 #'s. Pull out of hole. Service Rig. Measure and make up directional tools. Run in hole to shoe and test MWD. Ok. Run in hole. Prepare to drill of plug directionally.

10/13/02 Run in hole to 5,017'. Ream to 5080'. Run in hole to 5,330. Ream to 5,395'. Run in hole to 5741'. Circulate and condition. Test MWD. OK Drilling to 5773'. MWD failed. Pipe screen filling halfway on connection. Suspend operations. Notify CAZA of same and call Troy Azlin. Pull out of hole and lay down MWD. Photograph MWD and cleanout of pit operation. Dump and clean mud pits. Repair holes and split in shaker/suction pit divider. Make up MWD. Test MWD. Ok. Run in hole to 2000'. Cir 5 minutes. Handful of debris in pipe screen. Probably from clearing lines. Will stop at 4000' and repeat process.

## DIVISION OF OIL AND GAS

#### HISTORY OF OIL OR GAS WELL

Operator R&R Resources, LLC Field Cheney Ranch

County Fresno

Well <u>Blue Agave #1</u> API No <u>019-24225</u>

Section <u>32</u>,T <u>14S</u>, R <u>13E</u>, MDB&M

Name Wolf E. Regener

Title: Agent

Date January 12, 2003.

Page 3

- 10/14/02 Run in hole to 3995'. Break circulation and test MWD. OK. Run in hole to 5773'. Circulate and condition. Test MWD. OK. Drill to 5897'. Wipe hole to 5440', free. Drill to 5987'. Wipe hole to 5660'. (free) Drill to 6081', wipe hole to 5789 (free)
- 10/15/02 Drill to 6173'. Circulate and wipe 10 stands (free). Drill to 6204'. Circulate and pull out of hole for PDC bit. Slip and cut drill line 100'. Lay down bit and break UBHO sub, service MWD. Make up bit and MWD, run in hole to shoe and test MWD. OK. Run in hole. Drill to 6242'.

10/16/02 Drill to 6300'. Circulate and wipe 10 stands (free). Drill to 6486'. Circulate and wipe 10 stands (free). Drill to 6750'.

- 10/17/02 Drill to 6825'. Circulate and pull out of hole for new MM and bit. Having problems orienting the PDC in sandstone. Lay down mud motor and bit. Service MWD and measure and pick up additional monel collar. Run in hole, test MWD. OK. Run in hole. Drill to 6948' (Depth midnight 6888'). Circulate and wipe 10 stands (free). Drill to 6979'.
- 10/18/02 Drill to 7071'. MWD not working. Drill pipe screen full of metal pieced. Pull out of hole for MWD service. Service MWD. Run in hole. Ream tite spot at 5377'. Run in hole. Circulate bottoms up. Drill to 7081'. Pull out of hole. Check bit. OK. No scoring, cones and teeth in good shape. Motor seems fine. Lay down mud motor. New one on location. Decided to run it. Pick up mud motor and test. OK. Make up new BHA and orient MWD.

10/21/02 Continue to ream to 7412'. Drill o 7753'. Pull out of hole. Work thru tite spot 1-3 stands. Lay down PDC & NB stab. Pick up FDS+bit. Run in hole. Circulate bottoms up. Wipe hole 20 stands (free). Circulate bottoms up. Pull out of hole from logs.

10/22/02 Pull out of hole from logs. Rig up Halliburton with triple combo. Tool stuck at 1835'. Work tool. Order out Weatherford fishing tool crew. Wait on fishing tools. R/U fishing tool and run in hole to fish. Tag fish and latch on. Pull out of hole with fish (chain out of hole). Lay down fish and fishing tools. Slip and cut drill line and service rig. Make up bottom hole assembly and run in hole to circulate and condition hole from logs.

10/23/02 Run in hole and circulate and condition hole from logs. Pull out of hole from logs. Rig up Halliburton loggers and run elogs. Rig down loggers. Services rig. Run in hole to 6248'. Rig up lay down equipment and lay down drill pipe.

10/24/02 Run in hole open-ended to 1465'. Circulate for cement. Rig up Halliburton cementers and Equalize 130 sx Class "G" cement premixed 3% CaC12 at 1465'. CIP at 7:50 a.m. base of fresh water plug. Waiting on cement. Run in hole and tag top of cement at 1160'. D.O. G. witnessed and approved. Lay down drill pipe, Lay down collars. Nipple down blow out preventers, dump and clean mud pits. Release rig. Suspend well.

DOCT 0 1 2003

DIVISION OF OIL & GAS COALINGA Job Number: 092902

Company: RER RESOURCES LLC

Lease/Well: BLUE AGAVE #1

Location: CHENEY RANCH

Rig Name: CAZA #14

RKB:

G.L. or M.S.L.:

State/Country: CALIF\USA

Declination: 15*

Grid:

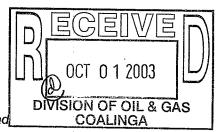
File name: C:\WINSERVE\R&R.SVY

Date/Time: 10-Oct-02 / 12:03

Curve Name:

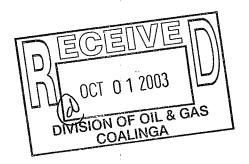
WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plans 4.03

Vertical Section Plane 1,93
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead



								ì	
Measured Depth FT	Inci Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT		S U R E Direction Deg	Dogleg Severity Deg/100
00	00	00	00	00				ζ,	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
810.00	.20	306.40	810.00	.84	-1.14	.80	1.41	306.40	.02
980.00	.60	335.50	979.99	1.82	-1.75	1.77	2.53	316.27	.26
1137.00	2.60	.60	1136.93	6.13	-2.05	6.06	6.47	341.53	1.32
1289.00	6.70	356.30	1288.39	18.44	-2.59	18.34	18.62	352.02	2.71
1320.00	7.90	359.00	1319.14	22.37	-2.74	22.27	22.54	353.02	4.03
1353.00	9.60	2.30	1351.76	27.39	-2.67	27.28	27.52	354.43	5.37
1414.00	12.10	6.70	1411.66	38,82	-1.72	38.74	38.86	357.47	4.31
1474.00	13.90	2.20	1470.12	52.27	71	52.22	52.28	359.22	3.44
1569.00	15.00	2.00	1562.12	75.96	.16	75.92	75.96	.12	1.16
		•							
1659.00	15.00	2.20	1649.05	99.24	1.01	99.22	99.24	.58	.06
1781.00	17.00	2.10	1766.32	132.84	2.27	132.84	132.86	.98	1.64
1935.00	16.00	.80	1913.98	176.56	3.39	176.58	176.59	1.10	.69
2089.00	15.30	2.30	2062.27	218.09	4.51	218.11	218.13	1.18	.52
2214.00	16.30	1.60	2182.54	252.10	5.66	252.15	252.16	1.29	.81
								1	
2276.00	14.90	2.30	2242.26	268.76	6.22	268.82	268.83	1.33	2.28
2528-00	14.60	1.90	2485.95	332.88	8.57	332.98	332.99	1.48	.13
2709.00	15.00	2.20	2652.25	376.79	10.15	376.92	376.92	1.54	.24
2610.00	15.40	2.80	2758.40	405.60	11.41	405.75	405.76	1.61	.39
3109.00	14.60	5.90	3047.21	482.74	17.22	483.05	483.05	2.04	.38
									•
3232.00	14.70	5.50	3166.21	513.70	20.31	514.09	514.10	2.26	.12
3416.00	14.40	6.40	3344.31	559.67	25.10	560.20	560.23	2.57	.20
4500.00	6.20	358.00	4409.98	752.46	38.10	753.31	753.42	2.90	.77

_	Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W *	Vertical Section FT	C L O S Distance FT	SURE Direction Deg	Dogleg Severity Deg/100	
	5295.00 5792.00	9.50 14.50	357.00 359.00	5197.43 5683.41	860.91 964,14	33.17 29.93	861.54 964.60	861.55 964.61	2.21 1.78	.42 1.01	_
	6379.00 6645.00	22.00 16.00	1.00 358.00	6240.49 6491.89	1147.81 1234.35	30.57 30.16	1148.19 1234.66	1148.22 1234.71	1.53 1.40	1.28 2.28	
	7079.00	10.00	355.00 ⁻	6914.58	1331.75	24.78	1331.83	1331.98	1.07	1.39	
ل 	7612.00	6.00	345.00	7442.31	1404,79	13.54	1404.45	1404.86	.55	.79	



Job Number: 692962

Company: R&R RESOURCES LLC.

Lease/Weit BLUE AGAVE #1

Location: CHENEY RANCH

Rig Name: #14

RKD:

G.L. or M.S.L.:

State/Country: CALIF/USA

Declination: 15*

Gna:

File name: C:\WINSERVE\RR1.SVY

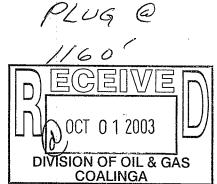
Date/Time: 19-Oct-02 / 21:57

Curve Name:

# CONTROLLED DIRECTIONAL, INC. PO BOX 534 RIO VISTA, CA 94571 707-374-4001 FAX 707-374-4003

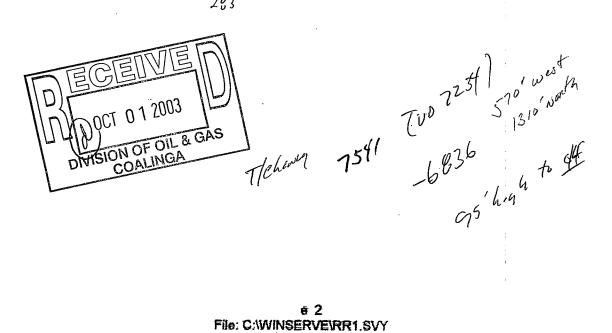
#### WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method Vertical Section Plane 270.00 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead



								CUALIN	IGA	
Measured Depth FT	inci Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT		S U R E Direction Deg	Dogleg Severity Deg/100	
: <b>00</b> :	.00	.00	.00	.00	.00	.00	.00	.00	.00	
810.00	.20	306.40	810.00	.84	-1.14	1.14	1.41	306.40	.02	
980,00	.60	335.50	979.99	1.82	-1.75	1.75	2.53	316.27	.26	
1137.00	2.60	.60	1136.93	6.13	-2.05	2.05	8.47	341.53	1.32	
1289.00	6.70	356.30	1288.39	18.44	-2.59	2.59	18.82	352.02	2.71	
1320.00	7.90	359.00	1319.14	22.37	-2.74	2.74	22.54	353.02	4.03	
1353.00	9.60	2.30	1351.76	27.39	-2.67	2.67	27.52	354.43	5.37	
1414.00	12.10	6.70	1411.66	38,82	-1.72	1.72	38.86	357.47	4.31	
1474.00	13.90	2.20	1470.12	52.27	71	.71	52.28	359.22	3.44	
1569.00	15.00	2.00	1562.12	75.96	.16	16	<b>75.96</b>	.12	1.16	
1659.00	15.00	2.20	1649.05	99.24	1.01	-1.01	99.24	.58	.016	
1781.00	17.00	2.10	1766.32	132.84	2.27	-2.27	132.86	. 98	1.64	
1935,00	16.00	.80	1913.98	176.56	3.39	-3,39	176.59	1.10	.69	
2089.00	15.30	2.30	2062.27	218.09	4.51	4.51	218.13	1.18	.52	
2214.00	16.30	1.60	2182.54	252.10	5.66	-5.66	252.16	1.29	.51	
2276.00	14.90	2.30	2242.26	266.76	6.22	-6.22	268.83	1.33	2.28	
2528.00	14.60	1.90	2485.95	332.88	8.57	-8.57	332.99	1.48	.13	
2700.00	15.00	2.20	2652.25	376.79	10.15	-10.15	376.92	1.54	.24	
2810.00	15.40	2.80	2758.40	405.60	11.41	=11.41	405.76	1.61	.39	
3109,00	14.60	5.90	3047.21	482.74	17.22	-17.22	483.05	2.04	.38	

Measured	Incl	Drift:	True			Vertical	CLO	SURE	Döğleğ
Depth	Angle	Direction	Vertical	N-S	E-W	Section	Distance	Direction	Severity
FT	Deg	Deg	Depth	FT	FT	FT	FT	Deg	Deg/100
3232.00	14.70	5.50	3186.21	513.70	20.31	-20.31	514.10	2.26	.12
3416.00	14.40	6.40	3344.31	559.67	25.10	-25.10	560.23	2.57	.20
4500.00	6.20	358.00	4409.98	752.46	38.10	-38.10	753.42	2.90	.77
5295.00	9.50	357.00	5197.43	860.91	33.17	-33.17	861.55	2.21	.42
5 <del>8</del> 20.00	15.90	3 <del>56</del> .70	5 <b>709</b> :32	976.09	<del>26</del> .75	-26.75	976.46	1.57	1.22
5690.00	17.20	352.70	5776.42	995,93	24.89	-24.89	996.24	1.43	2.47
5924.00	17,00	347.80	5808.91	1005.77	23.20	-23.20	1006.04	1.32	4.28
5954.00	17.60	346,20	5837.56	1014.47	21.19	-21.19	1014.69	1.20	2.55
5050.00	18.00	343.10	5928.96	1042.75	13.42	-13.42	1042.84	.74	1.07
<del>505</del> 0.50	19.00	341.30	5957.41	1051.81	10.50	-10.50	1051.87	.57	3.84
6110.00	19.80	340.70	5985.71	1061.24	7.26	-7.26	1061.26	.3 <del>9</del>	2:7 <del>5</del>
6182.00	18.30	337.60	6053.77	1083.20	-1.08	1.08	1083,20	359.94	2.51
6274.00	19.10	330.20	6140.92	1109.62	-14.07	14.07	1109.71	359.27	2.72
6364.00	20.80	325.60	6225.52	1135.58	-30.42	30.42	1135.99	358.47	2.57
6517.00	22.40	313.60	6367.84	1178.13	-66.90	66.90	1180.02	356.75	3.0 <del>6</del>
6065.00	24.50	301.00	6503.70	1213.40	-113.66	113.66	1218.72	354.8 <del>5</del>	3. <del>68</del>
6756.00	26.60	302.00	6585.80	1233.92	-147.11	147.11	1242.66	353.20	2.36
6846.00	27.50	296,00	6665.97	1253.71	-182.88	182.88	1266.98	351.70	3.19
6910.00	28,40	290.80	6722.51	1265.60	-210.39	210.39	1282.96	350.56	4.06
7603.60	28.90	287.10	6804.13	1280.06	-252.55	252.55	1304.73	345.84	1.98
7041.00	30.10	285.00	6837.20	1265.22	-270. <del>5</del> 3	270.53	1313,39	348,11	4.17
7213.00	35,30	279.20	6981.93	1304,35	-361.34	361.34	1353.47	344.52	3.53
7243.00	36.40	278.00	7006.24	1306.98	-378.71	378.71	1360.74	343.84	4.35
7245.00 7280.00	38.40	278.10	7035.64	1310.12	-400.9 <del>6</del>	400.96	1370.11	342.98	5.41
7310.00	40.00	275.20	7058.89	1312.31	-419.79	419.79	1377.82	342.26	8.11
/ 7413.00	40.80	<del>268</del> .30	7137.36	1314.31	-4 <b>86</b> .43	486.43	1401.44	339.69	4,41
27787.00	40.80	268.30	7420.48	1307.06	-730.70	730.70	1497.44	330.79	.00
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374

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES 466 North Fifth Street Coalinga, CA 93210

# REPORT ON OPERATIONS

Wolf E. Regener R & R Resources LLC 601 Daily Drive, Suite 210 Camarillo, CA 93010 Coalinga, California December 17, 2002

Your operations at Well "Blue Agave" 1 A.P.I. No. 019-24225 Section 32, T.14S, R.13E, M. D. B. & M., Cheney Ranch Gas field, in Fresno County, were witnessed on 10/23/2002. Timothy S. Boardman, representative of the Supervisor, was present from 1200 to 1230. Also present was Bob Walton - Geologist.

Present condition of well:

16" cem 50'; 9 5/8" cem 820' TD 7753 (Present Hole) Plugged w/cem

By

1465'-1160

The operations were performed for the purpose of plugging back for redrill & suspension.

DECISION: The location and hardness of the cement plug @ 1160' is approved.

**DEFICIENCIES: NONE** 

CONTRACTOR: Caza Drilling

TSB/do

KENNETH P. HENDERSON, ACTING STATE OIL AND GAS SUPERVISOR

TIMOTHY S. BOARDMAN,

Deputy Supervisor

OG109

#### Form OGD10 (6/80)

#### DIVISION OF OIL AND GAS Cementing/Plugging Memo

1-232	
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r. T	T.S. B.	× cQm	Resource 4225 Irich GAS	, o	resents	tive c	of the g	unervie	011 <u>~~</u>	resent fro	<b>am</b> 12 00	*a 1230
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No. T502-169

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES 466 North Fifth Street Coalinga, CA 93210

# REPORT ON OPERATIONS

Wolf E. Regener R & R RESOURCES LLC 601 Daily Drive, Suite 210 Camarillo, CA 93010 Coalinga, California October 7, 2002

Your operations at Well "Blue Agave" 1 A.P.I. No. 019-24225 Section 32, T.14S, R.13E, M.D.B. & M., in Cheney Ranch Gas field, Fresno County, were witnessed on 09/29/2002. Cliff Parli, representative of the Supervisor, was present from 0536 to 0642.

Present condition of well:

16" cem 50'; 9 5/8" cem 820' insert 779'. T.D. 820' (standing

cemented)

The operations were performed to test the blowout prevention equipment and installation.

DECISION: The blowout prevention equipment and it's installation on the 9 5/8" casing are approved.

DEFICIENCIED CORRECTED: Internal preventer not on rig floor.

CONTRACTOR: Caza Drilling

CP/do

KENNETH P. HENDERSON ACTING STATE OIL AND GAS SUPERVISOR

TIMOTHY S. BOARDMAN,

Deputy Supervisor

OG109

FU	
APľ No.	019-24225

# DIVISION OF OIL AND GAS BLOWOUT PREVENTION EQUIPMENT MEMO

Opera	ator_R	&R Re	Source	خ	LL	.c			w	ell Bluy Fres	e A	991	3"						
Field	_EV	ieney F	Ranch	9	as				Count	y <u>Fres</u>	no			_Spud D	ate			-	
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		DECISION:	. The b	lowo	ut pr	eventi	ion ed	quipm	ent and	l its installati	on on	the <u> </u>	7/8		casing	are ap	prov	ed.	
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DIVISION OF OIL,
GAS, & GEOTHERMAL
RESOURCES

466 N. FIFTH STREET COALINGA CALIFORNIA 93210-1793

PHONE 559/935-2941

FAX 559/935-5154

INTERNET consrv.ca.gov

GRAY DAVIS GOVERNOR

# DEPARTMENT OF CONSERVATION STATE OF CALIFORNIA

September 24, 2002

Wolf E. Regener R&R Resources LLC 601 Dailey Drive, Suite 210 Camarillo, CA 93010

RE: Request of confidential status for well "Blue Agave" 1 Section 32 T14S, R13E, M.D.B.&M. Cheney Ranch Gas field, Fresno County

I have reviewed your request for confidential status for well "Blue Agave"

1. The proposed well is located in a designated gas field, the proposed completion zone is the Cheney Sands at 7400 feet. This appears to be the same strata as the Jergins sands (Cretaceous) found elsewhere in the field.

Lacking further evidence of new fault block or other new accumulation I cannot grant full confidential status. However I will grant confidential status for 60 days until you can provide further evidence to the contrary.

Sincerely

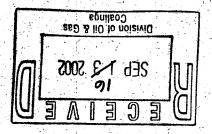
Timothy S. Boardman District Deputy

cc:Well File

# R & R Resources, LLC

September 12, 2002

Division of Oil and Gas 466 N. Fifth Street Coalinga, California 93210



Blue Agave #1
Fresno County California

Dear Ladies and/or Gentlemen:

This letter is to request confidential status for the Blue Agave #1, API #019-24225.

If you need anything else please let me know. Thank you for your help with this..

Sincerely,

Wolf E. Regener

President

WER NSP Enclosures DURCES AGENCY OF CALIFORNIA

LEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS &

GEOTHERMAL RESOURCES

466 North Fifth Street

Coalinga, CA 93210

No. P502-281

Field Code 134

Area Code 00

New Pool Code 05

Old Pool Code New Well

#### PERMIT TO CONDUCT WELL OPERATIONS

Wolf E. Regener R & R Resources LLC 601 Daily Drive, Suite 210 Camarillo, CA 93010 Coalinga, California August 19, 2002

Your proposal to Drill well "Blue Agave" 1, A.P.I. No. 019-24225 Section 32, T. 14 S., R13 E., M.D. B. & M., Cheney Ranch Gas field, U.Cretaceous pool, Fresno County, dated 08/13/2002, received 08/16/2002 has been examined in conjunction with records filed in this office.

#### THE PROPOSAL IS APPROVED PROVIDED:

- 1. Drilling fluid of sufficient quality and quantity to prevent blowouts shall be used in drilling, and the column of drilling fluid shall be maintained to the surface at all times, particularly while pulling the drill pipe.
- 2. Blowout prevention equipment conforming to CDOGGR Class III B3M requirements is installed on the 9 5/8" casing and maintained ready for use at all times.
- 3. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet.
- 4. Fresh water deposits are to be protected by cement behind the 5 ½" casing. Sufficient cement must be used to fill to at least 100 feet above the base of the fresh water deposits, which is estimated to be at 1450'. If cementing through ports set them between 50 and 100 feet below the base of the fresh water deposits and use sufficient cement to fill 300 feet or more of casing/hole annulus.
- 5. THIS DIVISION SHALL BE NOTIFIED:
  - a) To witness a test of the installed blowout prevention equipment prior to drilling out of the 9 5/8" casing.
  - b) To witness a production test demonstrating water shut-off within 30 days of completion.

NOTE: The base of the usable fresh water should be encountered near 1450.

Blanket Bond GP/do

Engineer: Gary Philbrick Phone: (559) 935-2941 WILLIAM F. GUERARD, JR., STATE OIL AND GAS SUPERVISOR

Timothy S. Boardman
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

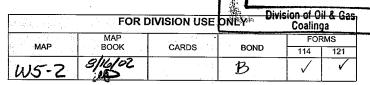
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# RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

# NOTICE OF INTENTION TO DRILL NEW WELL

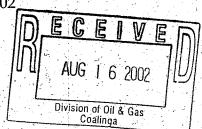
C.E.Q.A. INFORMATION									
ЕХЕМРТ □	NEG. DEC.	E.I.R.	DOCUMENT NOT REQUIRED BY LOCAL						
CLASS	S.C.H. NO.	S.C.H. NO.	JURISDICTION 🛛						
See Reverse Side									



In compliance	with Section 3203	Division 3, Public R	esources Code, no	tice is hereby giver	n that it is our inter	ntion to commence
drilling well_Blue	Agave #1		, well type Gas		, API No. O	19-24225
Sec.32 , T.1	4s , R.13E	, MDB.&M.,	Che	eney Ranch Gas		
Legal description (		se, consisting of 320		acres (attach map o		
Do mineral and so leases, and map of	urface leases coind or plat to scale.	cide? Yes 🏻 No	. If answer is	no, attach legal de	scription of both s	urface and mineral
Location of well 2	,600 feet <u>s</u>	outh along se	ection 🛛 / property (Check one)	☐ line and 100	feet	East (Direction)
at right angles to s	aid line from the <u>M</u>	v		n ⊠ / property □ _ (Check one)	32	or
	ctionally drilled, sho	definition on the next ow proposed coordin feet East	ates (from surface I	ocation) and true ve		
(D	irection)	(Direction)		tical depth 7,200	Elevatio	n or ground above
sea level 385	feet. All depth mea	surements taken fro		thary Table, or Kelly Bushing)	at is 15	feet above ground.
		PROPOS	ED CASING PR	OGRAM	·	
SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	ТОР	воттом	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING (Linear Feet)
9 5/8"	36#	K-55 ST&C	Surface	800'	800 a	800 + 20% excess
5 1/2"	17#	N-80 LT&C	Surface	7,400	7,400	1,800' w/20% excess
	(A comp	lete drilling program is pre	formed and may be submi	tate of the United States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of the States of t		
Intended zone(s)		ete driming program is pre	ierred and may be subm		÷ ,	
of completion Che		ame, depth, and expected pres	esura)	Estimated to	tal depth 7,400	(F1)
Cheney Sands,	7,100, 3,100					(Feet)
lt is	s understood that	if changes to this p	lan become neces	ssary, we are to no	tify you immedia	tely.
Name of Operator R&R Resources			Type of Or	ganization (Corporation, d Liability Con	Partnership, Individual,	
Address 601 Daily Driv	ve, Suite 210		City Camari	110		Zip Code 93010
Telephone Number 805-484-9648	Name of Person Filir Wolf E. Rege	_	Signature	11//	?	Date 8/13/02
This notice and a	an indemnity or c	ash bond shall be	filed, and approva	I given, before dri	lling begins. If op	erations have not

# R & R Resources, LLC

August 14, 2002.



**Overnight Express** 

Division of Oil and Gas 466 N. Fifth Street Coalinga, California 93210

> Blue Agave #1 well Fresno County California

Dear Ladies and/or Gentlemen:

Enclosed are two originals of the Notice of Intent to drill the Blue Agave #1 well. If you need anything else please give us a call.

Sincerely

Wolf E. Regener President

WER NSP Enclosures