Well Records for Artificial Penetration #5

Souza #1-36

(API No. 1906032)

FORM 159 (9-49)

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

REPORT OF WELL ABANDONMENT

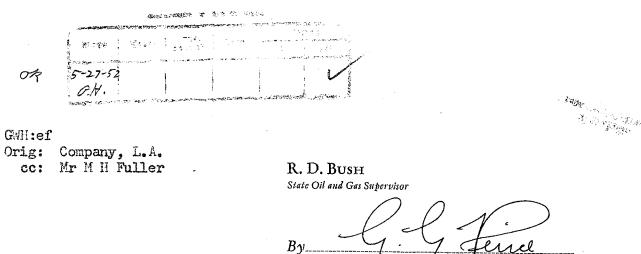
Coalinga , California, May 26 , 19 52

OPEN TO INSPECTION

Mr. M. H. Fuller, Agent L. M. Lockhart Box 165 Burrel, California	0,3%, 10 10 10 10 10 10 10 10 10 10 10 10 10
Dear Sir	
Your report of abandonment of Well No. "Souza" 1-36	, [*] 0 ₁ 4
Sec. 36 , T. 14 S., R. 12 E., M. D. B. & M.,	oil field,
Fresno County, dated February 20, 1952	, has been

examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have been fulfilled.



Deputy Supervisor

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

FILL THIS

DIVISION OF OIL AND GAS

SUBMIT LOG IN DUPLICATE

IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPE

WELL SUMMARY REPORT

Operator	L. H	LOCKIDAR	Ţ	Fie	ld	e_Circula		Prosno Cou	nty_
Well No	"Sou	1-36 1 -36		Sec.	36 т.	1.0	R. 123	<u> </u>	1 & M
Location (r Corrier (n compliance w	nd 6601 W of 30ct200 with the provisi	n 36-14/	All All	wation above se depth measures ich is of 1939, the inf , so far as can b	nents taken	B. Elo	19.2 Survey of Kolly Pais feet above	<u>O</u> Cilet. Ining ground.
	obraary 2		n and an won		, so far as call o Sigi		Henry	-	
03		ard		erintendent)			nginea	President, Secretary or A	
Total dej	ced drilling oth 10,6351 Norma	28	1951 I depth 10 Prom 39	Completed	GEC	ptie lue Diogical M	1.951		ary
Commenced producing <u>Harvar</u> <u>produced</u> Abandoned: Sapt. 5, <u>Clean Oil</u> bbl. per day Initial production Production after 30 days			Gravity Clean Oil	Flowing/gas lift (cross out unnecessa Per Cent Water including emulsion			Tubing Pressure	Casing Pressure	
		<u></u>	CA	SING RECORD	(Present Hole)			× .	
Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Scamless or Lapweld	Grade Size of Hole of Casing Drilled		ole Number of Sacks of Cement	Depth of Cementing if through perforations
4."	3761	Surface	4754	llew	Inils.	97	20'	• 650	· · · · · · · · · · · · · · · · · · ·
				Perfor					1
Size of Casing	From	То	Size c	I ERFOR	Number	Distar Betwoin C	ice	Method of Perf	
	ft.	ft.			of Rows	Between C	enters		
	ft.	ft.	•	······	···		- 	100	······
	ft.	ft.	·				an a		
,	ft.	ft.							
	ft.	ft.		3.3 HP 7				- - 	
E	lectrical Log I	Depths	100 01	dod 10,6	54*** 370*		(A	Attach Copy of Lo	g) /

Pora 103

Pago One

2

DIVISION OF OIL & CAR

HISTORY OF OTL OF GAS WELL

Operators L. E. Lookhart

Woll: "Souma" 1-36

Dato: Pabruary 20, 1952

Field: Panoche Creek Area, Fresno County Los. Sec. 35-7115-5128-500000

Stanes mkarg. Gimedi MAL A LET

Olem H. Sarl, Sugineer Powler Prilling Co., Contractor

14. H. Faller, Lookart Superintendent D. D. Chase, Fewler Superintendent

Caning & Hole Record

14" Ber 47.94 Suls. 3J Surface caping commuted at 370' in 20" hole with 650 max commuted 10-5/8" hole from 666' to 3315'. 9-7/8" hole from 3315' to 9578'. 7-5/8" hole from 3315' to 9578'. 7-5/8" hole from 3578' to 10,635'.

NOTE: All depth measurements from Kelly Bushing. Alevations: Ground 410.2' (Surveyed) K.D. 431.7'.

		11 StAR 100
Amo		Anderson & Anderson, Surveyors of Presso, surveyed well location 6 660' 5. 5 660' W. from S. 1/4 corner of Section 30-14/12.
July	2	Excavating supp. Building roads. Sigging collar.
Jul 7	3	Proparing location as above.
JUL 7	Ă.	Hollday - work susponded.
July	5	Looablan work continued.
Mly	6	Collar and roads completed. Dissing purp.
July	7	Tang the around a tank The as
July	i na Film	Losstion completed. Idle.
Mly	9	Location completed. Satoring reads.
July	10	Noving in Powler Brilling Co. squipments Saldrip mat,

Perm 103

Dego 140

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THE PARTY "Deutes" 1-36 (Constd).

225 3225 20 (Conti * 3)	backed up with Jorque Convertors, one new 10" 211 Tall and party, and 14" sud party, 4-1/2" duil1-pipe.
3mly 11	Rigging up Pauler Willing 30. aculpaunt.
MO Y 12	Maring up Postor Drilling Co. equipment.
3.27 13	Pinished rigging as. Jug ratelals. Syndiat in this 20" and he rock bit Garangh 22" conductor pipe at 3 c'clock Pais. Yel3+51. Nade up 7-5/5" drill-collers. Mined and and infiled 20" hele from 0" to 55". Sarince mand and gravel.
	<pre>prilied 20* hole from 0.5* to 595*. Added two 6-5/0* spill-collings. (0.3*). Prom 75* to 115*. For grownl and sand. Prom 110* to 200*. Sund and grownel. Prom 200* to 200*. Sund and grownel. Prom 200* to 70*. Suche, Structur sand and grownel. Prom 200* to 70*. Suche, Structur sand and grownel. Prom 20* to 200*. Suche. Prom 27* to 200*. At 200* of 20*. At 21.* 0 00* 15*. At 320* 0 0* 30*. At 520* 0 0* 30*. Average and verying 71.5. Viscoulty high. Average pump pressure 200*. Average veryint on 51t 6 3 tons.</pre>
	Delilled 20" hole from 503" to 666". Castman Prilledipe Survey at 620" 6 1° (C Average and colgan 75". Viscoulty high. Average purp pressure 200%. Average woight (bit) 3 terms. Resoured pipe cut of hole at 665". 5. 5. San arith-pipe. Offenhated and conditioned mut and hole. Fulled out to run surface casing. Surface pipe would not go below 105". Fulled pipe to ream hole. Source erows blocks and clouned out hole to 666". Fulled out. Casing would not go below 230". Fulled mains.
MAY 6 1952 COALLINGA, CANARDERIA	Finished pulling casing. Some in hole with 20" Solida its and 20-1/2" Grant J-point person. Second hole from 0' to 000', that we 72-75%. Viscosity higs, billed out, closed bits and reason, was back to bottom. Speciated and conditioned much. Fulled out to run Speciated and conditioned much. Fulled out to run Spectated and conditioned much. Fulled out to run Spectation contact flats of Herrich Called to run Spectation of contact of Herrich Spectations (12-50 int validations, configured with Saler contact pilde shoe, with 450 and remaining Type "0" construction enters. Displaced counts with 300 cm. St.

land 111900

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Porns 103

WELL PROPERT "Scores" 1-96 (Control.)

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THE T (General)

derilling fluid, Maring then 35 minutes, blass placatent time 20 minitus. Appreciation of a fite general retries to surface. Average 106 placey. Count foll anny. Lot count 202 bro locar and than did 200 and: "out-side job" through 2" pipe. Filled angular to dustance Job accileted with Malillanton Person Antiperson and India control (1760) P.H. Claunad Aslown, Attaly and plice.

Standing compared. Rigging up equipment. Lended 14" surface pipe at 9105 -... Schulled and booted line-hat Proventer with 700 processes for 15 minutes. Noid 0. S. Made up 10-5/5" bits on 100* of arills collars. Pound top of compart at 00? at 1000 5.1. Circulated and conditioned mid. Tested cashe and Slow but Proventer with 7509 presence for 15 minutes.

Erillei 10-5/0" hole from 656' to 1511, Prom 666' to 1850' O chale with atpeaks of smale

Mail 19

July 17

MIT 19

17211101 10-5/0" bola from 15:11 to 2351. From 1.3 1. to 1.02.7 to marks which streams and. From 10524 to 17574 shullo. 'hom 1907' to 1997' annis analo, analo, analo and Analla. Saatan (pll1-Pipe Survey at 1603' o 0° 19'; 1903' 6 0° 19'; 1052' 6 0° 20'; 1007' 6 0° 60'; 2070' 6 0° 19'; 1052' 6 0° 00'; 2261' 6 0° 10'; and at 2954' 6 0° 19'. RECEIVED ANALYSS and salah 75%. Viscolity 60. JEAY & 1952 COMENSA SUBSENSE COMENSA SUBSENSE COMENSA SUBSENSE COMENSA SUBSENSE Refion) in hole up 16824.

MAY 20

Leavenue as die in th

COALENSA, CALERORIA

and the second second state and second secon Tablican Delli-Pipe Auswey at 24.5^{4} 0 0° 00'. At 2535^{4} 0 0° 00'. At 257^{4} 0 0° 10', at 3750 C 0° 00'. At 2540^{4} 0 0° 05'. Perm 103

Page Four

5

<u>11273 (11383) (120000* 1406</u> (1006*3)

Mail 77/7 Viewoolds 4.5: Sand Say Values Loop 12-14 c.c. Valled 545 Ho. 2 at 2015 . Sotal Contage 7038 in 23-1/, house. 145 dolla (200-1 Aughos) in at 2019; Cast 16 2057 @ 2767 in 10 inners, 515 dails, 515 No. 5 (Raypan 200-2) in hole at 2657.

July 21

Defiled 10-5/0" hole from 272' to 162'. 272' he 205's most shule: 550' to 1201's hard broad shale; 1201' to 152'; shale. instant Joili Pipe hereby at 201' 0 1° 15'. At 2020' 0 0° 15'. 19 hit of 1° 0'. At 201' 0 0° 50'. here 1° 0'. At 201' 0 0° 50'. here 1° 0'. At 200' 0 0° 50'. here 1° 0'. here 1° 0'. here 1° 0'. 1.61 Hit dudi. Bit No. 6 in hale at 3501'; cut at 3520'. WYG-2 Haghes made 327' in 11-1/4 hours. (516 No. 6) Pailed cut to sum 2-come built bit to straighten hole.

Jely 22

3637* 5 0° 50°, average and weight 70%, Viscoslay 55 sec. Sand 2.50-34. Natur Loss 5-10 s.c. Vall cake Maiolenoso 1/32°. Funy produces 1050%. Saith Recome bit in bala.

Peters Percetion Logging Service Co. began Logging -and collocting Siteh Samples at 10-ft, intervals at 31964. Poters Parsonalt Darb Lara, Coologiat Antherick, Longing Anglesse Acophens, Loging Anglesse Nell men Logged by Folgers Sarring 2 cm 30500 to 10,5300. (Sobel Dougle S detlier 10,650, 5 cm 3 chilesborger 0 10.0151.)

TOLY 23

E AY

prilied 10-1/0" bole from 30.3" to bold". From 30.3" to 30.3" hard brown abale, structure sound. From 30.5" to 2000" sounds whele. From 2000" to 2000" sounds shale. From 2000" to 2000" sounds shale. From 2000" to 2000" sounds. From 2000" to 2000" so 2000". A 2000" of 2000" at 1000". At 2000" to 3" 10". And 70-79". Visconity 2000". A 2000 to 20 00". At 1171" of 2" 00". At 2000" to 3" 10". And 70-79". Visconity 2000". And 70-79". Visconity 2000". And 70-79". Visconity 2000". A 2000 to 20 00". A 2000 to 2000 to 2000". A 2000 to 20 Unalle Of Caller RECEIVED \$ 1952 COALENGA. CALENBRIA

Pace Pire

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WILL RESTART "Sound" 1-36 (Contral)

MIT 23 (General)

Form 103

MIT 34

and sorvierd drill-collers, Checked 2,0,2, Ren lik 179. 6 (Rearry Rechard Diday) at 1991.

1961164 10-5/0° hale from 5201 to 550%. From (2011 to (5))? shows there is a strength form. From (502) to (5))? shows there is a strength form. From (502) to (510), shows and soundy should be 3.0×10^{10} at (502). The field of the fiel 'out. "aiking for parts. Finded aroun. Claund caller. Installed Drowns barring and oll soul in pusp anglass. Installed new peeking in wesh pipe in servel. Cleaned up size

terter 25

without 10-5/5" hole from 4.13" to 5715. Thus bidd to 500%, shale with surveys sand. From 50% to 4517, siley shale. From 552% to 4057%, shale and shalls. From 552% to 5717, shales 50% at 2007 of 20%. And 70-010. Viscosiby 55-50. and 50% and 20%. And 70-010. Viscosiby 55-50. All cake 1/3% Folger balls repaired at 1000 a.m. In bole at 2130 a.m. 414 and 1/3% Folger balls repaired at 1000 a.m. In bole at 2130 a.m. 415 Ma. / Good 20% Consistence and and Grilled to 50%. Total 200° in 11 hours. Salls. Fulled out. Sharked 1.04%. Great drilling line and serviced still. Sharked 1.04%. Great drilling line and serviced still.

Dellics 10-5/2 islo from 5715 to 5073. Free 5715 to 550, duale, 5500 to 5000 spale. 1000 to 5070, sends chale, 1000 to 5000 spale. 1000 to 5070, sends chale, 1000 to 5000 to 5000 Fiscalty 55-00. Land content 2.3-3.5. Later Long 7-9 ess. Come 5/12". Fulled 110 Ber 10 of 12100 prom at 10070. Long ball citled the 10 to 10 of 1000 prom at 10070. Long ball the Ker 11 (000-2) hughes) in bale at 1070 at 1000 prom. Dellings cor.

July 20

Mily 27 Miles 10-6/2" hole from 2076t to 5360t. Miles 5075t to 5215t, shale, From 5215t to 5327t, shale, RECEIVEL sand, shalls. The 112 to 5469t, shale with poreakt MAY 0 1952 MILESA, SALEDEREA COALINEA, SALEDEREA COALINEA, SALEDEREA COALINEA, SALEDEREA COALINEA, SALEDEREA COALINEA, SALEDEREA

Jaco Str

2011 IOI

VELL HESPENIX "Comma" 1-36 (Comptd)

(Consta)

at 5329#1 made 251, in 10-1/4 hoursy dull. Chenked Really data definition line off and slipped 15'. Be-peaked avival. In hole with Dit So. 13 at 7100 pec. Girgulated and conditioned and and drilled from 5020' to 5369*.

Auty 20

ALT 29

Defiled 10-5/6" hole from 5%) to 5001, All Shale. Labels, as 55% of 1° 00%. At 5577 of 1° 15%, at 56304 C 1° 00%. And 50-51%. Visuonity used; see, Sand 3.5%. Water loss 0.5 c.c. will call this childmans 2/27. Fulled ate No. 13 at 5000 at 11000 s.m.; botal 101, in 12 hours; dail. Phonical 5.0.7. Serviced drillesollars. An bit No. 14 of 12130 para and doilthad to give .

periled 10-5/3" hole from 5001" to 5901". Prom 5001" to 5701" abaic. 5770" to 5770", etromatic said. 5770" to 5701, shale. 5770" to 2700° , shale. 5700, at 5720", at 5720" to 2700° . At 5020" at 2000. At 5020" at 5020" and 500. Visconity (5-05. Land 3.5), water loss 6 e.e. Tall cake 2/35", loss trip at 5071' to change bits at 3100 page. Oneshed 3.0.2. Sipped drilling line. Me No. 11 out at 5071's bound 161' in 11-1/2 hours bit in good condition. Sit No. 15 in at 5071' and dmilled to 5951', Artilling promise from 5933' to 5952'; total 19' soft shale. From 5955' to 5951'; total o' sand.

July 30

MAT 31

LAND AND STOR CONTACT EAY. <u>6 1952</u> COALENSA, CAMPORINA

Lellisd 10-5/0" hole from 5061' to 0140', "rom 5061' to 0199', hard abale. From 0139' to 0140', total 11' Milling brank 0 cand. 2, 2, 2, at 0030' 0 1 (9', at 0120' 0 1° 50', that 00-010', Visconfry 50 sec. Sand his. Satery loan 0.2002' one. Will calca 2/32', Milled Alt mo. 15 at 0053' at 10:00 a.m.; total 302' in 21 hours, dull. Ohengod Gylling lines and installed new broke bends. Han litt in. 16 (Thyfass 18-3) at 5100 p.e.. directored and acadivianal and, and drilled from 6053* to dint.

realized 10-5/0" halo from filing to file?". From (1), it to 6270', hard shale with directs sand. From 670' on 670', hard shale with strongs sand. From 670' to 627', hard shale. From 610' to 627', hard shale. RECEIVED (1), 2. at 620' of 30'. Willing brack from 610' to Give to be and from bottom before drilling should pheries orilling at 1:00 dams find drilling break at 6240' to 6250'; alrealated. Relied to 6330' and pulled Mt No. 10; made 277' in 10-1/2 hours; Gall. Ren 316 N c.17 (Dughas 12-3). Chanked B.C.P. Drilled to 6347'.

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Page Seren

8

Porm 103

VELL RISPORT "Journe" 1-36 (Gont'd)

.19	thad Volght 79-80%, Viccosity 50-65, Send content 3,3%, Water loss () 0,0, Only thickness 2/32", pl 7,5-8,
	Drilled 10.5/0" hole from 63.7" to 6530". From 63.7" to 6375 hardshale. From 63.75" to 62.05", broken sand and shale. From 62.05" to 65.7", shale and shale. From 62.72" to 6510", sandy shale. From 62.00" to 6510", sandy shale. From 62.00" to 6510", hard brown shale. Stole.3. at 62.00" of 1° 05". Fulled filt How 17 at 63.0" at 4000 panet 100" in 13.2/2 hours. Shooked 5.0.8, and slipped doilling line. for 51. Hours. 90.
Auguet 2	Drilled 10-5/0" hole from 6500' to 6700's From 6500' to 6570', shale and shalls. From 6570' to 6670', shale and shale. From 6675' to 6730', sand and shale. From 6665' to 6730', sand, shale, shale. LaD,FeB, at 6614' G 1° 00', at 6764' G 1° 00', Since pill and pulled out Bit No. 10 at 2400 a.m. at 6530', dull. Han Bit No.19 (Raghos 0500-3). Giroulabed drilling break at 6605' to 6704', Frilled hard shale or shell from 6764' to 6720', Giroulabed dvilling break from 6764' to 6720', Giroulabed
A	Dwilled 10+5/0" hole from 6730' to 6000's cand, shale and shalls. B.D.P.S. at 6703' 8 19 10'. Mid 70-00%. Videoalty 15-50. Cand 35. Under Loss 1.5+5.0 one. Cake 2/32". Han Dit No. 30 at 0730'. Bad drilling brody from 0740' to 6755'; circulated, Drilled to 0839' and pulled Dit No. 30; made 109' in 3+1/2 hours drilling bine; dull. Serviced drill-collars. Observed B.O.P. han Bit No. 31 at 0939' at 8100 pass, and drilled to 0800's
AUCTOR LA DIVERSE IN EL MAY 6 1952 <u>COALINGA</u> , <u>CALIPUENIA</u>	Drilled 10.5/0" hele from 6001 to 7120. From 60011 to 60001, sand, shale, and shells. From 60051 to 60051, shale and shells. From 60051 to 70011, sand. From 70011 os 70251, shale with strenks sand. From 70011 to 70251, shale with strenks sand. From 70251 to 71201, sand, sundstone, and shale. From 70251 to 71201, sand, sandstone, and shale. From 70251 to 70251, sand, sandstone, and shale. From 70251, sand, sand, sandstone, and shale. From 70251, sand, san

Facto Slaby

7

WELL HIGHDEL "Bours" 1-16 (Contid)

18 . 11

Form 103

August L and directated bit close. Circulated drilling break from 0905' to 70001. Circulated at 7005' for samples. Same at 7000', Drilled to 7120'; circulated and condl-tioned and and hole to rem Schlumbergor Sloctrical (Contid) Section Section Log. Pulled up 10 stands and men back to bostom. Aurrish S Drilled 10-5/0" hole from 7130* (corrected measurement) to 7281'; sund, shale, sendetones L.D.P.S. at 7125' & 1°00', had 77-00%. Viscosity 50-00, Sand 1-95. Water Loss 5 0.0. Wall cake 2/32", Serviced rig; conditioned mady measured pipe out of hele. (Corrected from 7120' to 7230'). Ran Schlamberger Electrical Log and recorded from 7127' to 370'. Hen Directores, Work conclused at 1:00 pers. Mit Ho. 22 made 100' in 9 hours: dull: Obsched H.O.F. Out off drilling line and serviced drillecollars. Hen Dit Ho. 23 (Hughes 000-2). Broke director at 1500' goin: in hole. On bottom and drilling at 5:30 pers. Circulated drilling break at 7220' and again at 7270'. Intilled 10*6/0" hole from 7201' to 7000'. Prom 7201' to 7255', sond and shale, shells, Prom 7355' to 7000', sond and hard shale. Prom 7300' to 7000', part shale. Substate at 7300' of 1° 00's it 7633' of 0° 15'. hul weight 79-018. Visconity 15-50', Sand contents how 3,55%. Satur loss 5.0 c.c. Calco 2/12" Fulled htt Now 33 at 7100 c.c. Calco 2/12" Fulled htt Now 33 at 7100 c.c. to 555' in 0-1/2 hours. Satur loss in 7355' in 0-1/2 hours. Satur dig, made up bit, checked 5.001, and ran bit Now 21 (000*3 hughen), Drilled to 7694'. Aumint O Drilled 10-5/6" bole from 7101' to 7737'. Pulled Haghed 098-3 (No. 21). Bit had drilled from 7355*-7191'. Total of 199'. Ban in hole with Haghes 050-5 mit (No. 25) and drilled from 7001'-7073', a botal of 179'. Pulled Bit No. 25. Ban in hole with Haghes 090-2 (Bit No. 26) at 7073'. LeD.J.S. at 7553' 0 0° 45'. S.B.P.D. at 7073' 0 0° 50'. Nad velont, 90-10. Had visconsity 45-50'. Dad send combant 3. Dat water loss 5 eres had cake thiokness 2/30" August 7 UNDER, OF OR MARKED RECEIVED Unloaded 177 joints of Good 3-1/2" dwill pipe, Serviced dwill collars, and chacked 0.0.7* MAY 6 1952 COALINGA, CALIFORNIA Drilling time 0 11 hours 15 sinutes. Trip time 6 hours. Surveying, servicing vis, and changing bits 0 3 hours 15 minitou.

Porm 103

Pages Mino

NELL HISTORY "Spins" 1-36 (Cont &.)

1

1957 ANA 0

Detilio: 10-5/6" hole from 77371-5071.". Pulled Bit He. 20 (highes 050-2). Dib He. 26 detilied from 7673-7855", a total of 212". Ban in hole with Bit He. 27 (highes 050-2) at 7855". Veight on bit G 341 cons. Retary speed 150 rpm. Fump pressure 1250 pai. Formations of shale and shells.

And reight 7%-CO / per cubic foots had viscosity 17-75 seconds. Sand Contant 35. Weber locs 1.20054: esc. Mai calso thiskness 2/32*. Drilling time, loci/3 house, Spip time 5 bours. Conveying, pervicing vis, changing bits, clipping deliling line 0 201/2 house.

Auroot 9

Crilled 10.5/0" hole from 20%1 to 2256. Higher Bit CSC-2 (No. 27) drilled from 7055 to 3136. a total of 251. Pulled Bit No. 27 and run in hole with Sit No. 20. (Rugher 086.) at 3136. Bud runp presence 1100 psi. Robary speed 150 rpm. Teight on bit. 3et tons. Pornation consisting of shale and streaks of shells and sand.

the usignt, 79-80 # per mible foot, 1ad viscosity 60 seconds, Water Loss 5-744 ors, Mud send contemb, 35, Bud cake thickness 2/32*.

S.D.P.D. th 5253* 0 00 LS1.

Brilling time @ 16 hours, 15 minutes. Trip time @ 3 hours and 30 minutes. Surveying, corvicing rig, and changing bits 0 5 hours and 15 minutes.

10

August 10 August 10 (000-3) (010 No. 20) after drilling from 8250' to 0.315' a total of 50'. Circulated and rigged up to 1/7 down $(-1/2)^2$ drill pipe in sincles. Follod $(-1/2)^2$ drill pipe and layed it down on reall changed to 0" hands and liners in parts. Droke and layed down on such the $R \equiv C \equiv IV \equiv D$

MAY 6 1952 A Bassar a of Ler.

COALLINGA, CAMPORITA

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WELL MISTORY "Souza" 1-36 (Continued)

1951 August 10 (Cont'd.)

Hud weight 79-80# per cubic foot. Mud viscosity 50'. Water loss h.8cc. Mud content 3%. Hud cake thickness 2/32".

Drilling time @ 7 hours and h5 minutes. Laying down h-1/2" drill-pipe and 7-5/8" drill-collars @ 7 hours and 30 minutes. Changing heads and liners in pumps, and installing 3-1/2" rams in Shaffer gate @ 8 hours h5 minutes.

NOTE; Hole reduced from 10-5/8" to 9-7/8" at 8315'.

August 11

Picked up drill collars; made up drill collars and bit. Ran in hole with 3-1/2" drill-pipe in singles. Broke circulation at h000', 6000', and 8300'. Reduced hole to 9-7/8" at 8315'. Drilled from 8315' with Hughes OSC-3 (Bit No. 29). Installed new wash pipe and packing in swivel. Pressure while drilling with pump with new liners @ 1600-1700 psi. Rotary speed @ 150 rpm. Weight on bit @ 3-5 tons.

Mud weight- 80 pounds per cubic foot. Mud viscosity - 64-70 seconds. Mater Loss 7 cc. Sand content 2.5-3%. Mud pH, 8.5. Mud cake thickness 2/32".

Drilling time \otimes 11 hours. Made up drill-collars (one 5-1/2" collar, and three 6-5/8" collars.) Ran in hole with 3-12" drill pipe in singles \otimes 13 hours.

August 12

Prilled 9-7/8" hole from 8390' to 8420'. Pulled Sughes OSC-3 (Bit No. 29) after it had drilled from 8315' to 8420'. a total of 105'. Total hours - 15-1/2. Left one cone in hole. Made up Globe Junk Basket and ran in hole to recover cone. Drilled two feet (8420'-22') with junk basket and pulled pine. Recovered cone on first attempt. Broke down Globe Junk Basket and made up Hughes OSC-3 Bit No. 30 -. Ran in hole and drilled 9-7/8" hole from 8422'-8466'. Weight on bit in tons - 3-5.

E.D. P.S. at 8462' @ 00 50'.

Mud weight - 70 pounds per cubic foot. Nater loss 6.5cc. Sand content - 3%. Mud Ceke thickness 2/32. pH @ 8.5

Drillingtime - 11 hours. Fishing time - 7 hours. surveying, servicing, changing bits, and making up and tearing out tools @ 6 hours.

13.

WELL HISTORY "Souza" 1-36 (Continued)

<u>1951</u> August 13

Drilled 9-7/8" hole from Sh66' to 8603'. Pulled Buches OSC-3 (Bit No. 30), after it drilled from Sh20' to Sh91', a total of 71'; total hours 10-1/2. Ran in hole with Hughes OSC-2 (Bit No. 31) at Sh91'. Formations of shale and streaks of sand. Circulated drilling break at 8583' for sample, showing a reading on Cas Indicator of 2 units. Checked B.O.P. O.K. Drilled with stand-by pump for 7 hours while changing heads and liners in 18" Oil Mell pump. Botary speed 150 row. Furn pressure 1200 pci.

Notary speed 150 rpm. Fump pressure 1200 psi. Meight on bit - 2-5 tons.

Mudweight - 80%. Water loss 7.5-8 cc. Sand content 1%. Mud Viscosity 55-75 seconds. Cake thickness 2/32".

Drilling time 16-1/2 hours. Trip time - h hours. servicing rig, changing bits and circulating drilling break 0 hours. Changing pumps 1/2 hour.

August 11

Pump pressure - 1500-1600 pst. Notary speed - 150 rpm. Weight on bit 3-5 tons. Formations of Filty shale @ drillers' log.

S.D.P.S. at 8747' 8 0º 50'.

Mud Weight 79-80%. Mud Viscosity 50 seconds. Sand content h.5-5%. Water Loss 8 cc. Cake Thickness 2/32".

Drilling time @ 14 hours, 30 minutes. Trip time @ 6 hours, 15 minutes. Surveying, changing bits, and checking B.O.P. @ 3 hours, 15 minutes.

August 15

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CALLS A CALL

Drilled 9-7/8" hole from 8717' to 8858'. Pulled Nughes OSC-2 (Bit No. 33) after it had drilled from 8717' to 8839', a total of 92'; total hours \oplus 9-1/2. Man in hole with fmith 2C (Bit No. 34) at 8839'. Measured out of hole on morning tour. Total depth \oplus 8794.72'. Conditioned mud, and loaded out 12 joints b-1/2" drill-pipe to be repaired. Pump pressure, 1550-1600 psi. Weight on bit - 3-5 tons. Rotary speed 150 rpm. Hard silty shale.

Page Twelve

WELL HISTORY "Souza" 1-36 (Continued)

1951 August 15 Mud weight - 80-81%. Mud Miscosity 50-60 seconds. Water loss 8 cc. Sand content LT. Cake thickness (Cont'd.) 2/32". E.P.P.S. at 871/7 @ 0° 50'. Brilling time - 11-1/2 hours. Trip time - 6-1/2 hours. Surveying, chenging bits, conditioning mud, servicing rig @ 3 hours. August 16 Prilled 9-7/8" hole from 2858' to 2920'. Pulled Smith 2-cone Bit No. 3L, after it had drilled from 8839' to 8877', a total of 38'. Total hours @ 9-3/L. Ran in hole with Mughes OSC-2 (Mit No. 35) and started drilling at 8877', Slipped drilling line, serviced drill collars, checked B.O.P., installed 3 new valves in 18" Oil Well Pump. Drilled with standby pump. Installed new liner rubber and head in 18" Oil Hell Thimp. Mud Pump pressure 1600 pst. Rotary speed 150 rpm. Weight on bit - 4-5 rpm. Weight on bit 4-5 tons. Formations of hard silty shale. E.D.P.S. at 8877* @ 1º 00* Hud weight 80-81#. Hud Viscosity 55-60 seconds. leter Loss 3 cc. Sand content 3-4%. Cake thickness 2/32". Drilling time 6 1 hours, 30 minutes. Trip time 6 hours. Slip and cut off drilling line, change bits, surveying servicing rig @ 3 hours, 30 minutes. Drilled 9-7/8" hole from 8920' to 8999'. Pulled Buch a August 17 030-2 (Hit No. 35) after it drilled from 8877' to 8953', a total of 76' in 16-3/h hours. Ean in hole with Hughes OSC-2 (Pit No. 36) at 8953'. Cleaned mud suction pits, welded water jacket to broke drum. Hud pump pressure;

> Mud Weight - 80-81#. Mud viscosity 60 seconds. Mud sand content - 3.25, Water loss 8.2 cc. Mud cake thickness - 2/32", pH 7.0

1250 pei. Seight on bit; 3-6 tons. Hotary speed; 150 rpm. Formations drilled consisted of hard shale.

Drilling time - 13 hours, 15 minutes. Trip time - h hours, 15 minutes. Changing bits, repairing vater jacket on brake, servicing rig and circulating - 6 hours, 30 minutes.

Erilled 9-7/8" hole from 8999: to 9107:. Pulled Hughes OEC-2 (Bit No. 36), after it had drilled from 8953: to 9036:, a total of 83:. Total hours lb-1/2. Hen in hole with Hughes OEC-2 (Bit No. 37) at 9036:. Slipped

August 18 1000

Fage Thirteen

WELL FISTORY "Souza" 1-36 (Continued)

1951 August 18 (Cont'd)

drilling line. Pump pressure, 1250-1300 psi. Veight on bit - 1:-6 tons. Rotary speed 150 rpm. Formations drilled, hard sticky shale.

E.D.P.S. at 9036' @ 0° 15'.

Hud Weight: 819 Mud Viscosity - 55-60 seconds. Water Loss: 9cc. Sand content: 35 Cake thickness: 2/32".

Drilling time - 17 hours. Circulating drilling break (9069:-9078: with no shows), 1 hour, 30 minutes. Trip time: h hours, 15 minutes. Surveying, changing bits servicing rig. 1 hour, 15 minutes.

Drilled 9-7/8" hole from 9107' to 9202'. Pulled Hughes OSC-2 (Bit No. 37) after it had drilled from 9036' to 9130', a total of 94'. Ren Hughes OSC-2 (Bit No. 38) at 9130'. Checked B.O.P., and cut off250' of drilling line. Freated mud and reduced water loss from 9.2 cc to 5 cc. Weight on Bit - 2-5 tons. Mud Pump pressure - 1250-1300 psi. Rotary speed: 125-150 rpm. Formations drilled consisted of hard shale with streaks of send.

E.D.P.S. at 9130' @ 0° h5'

Hud weight - 80-81# Mud viscosity - 55-60 seconds. Water loss: 5 cc. Sand content - 3.5% Cake thickness - 2/32", pH: 3.5 to 9.0.

Drilling time, 15 hours, 15 minutes. Trip time - 4 hours, 15 minutes. Surveying, servicing rig, conditioning rud, changing bits - 4 hours.

August 20

Drilled 9-7/8" hole fro, 9202' to 9276'. Pulled Hughes OSC-2 Bit No. 38, after it had crilled from 9130' to 9202', a total of 72'. Ran in hole with Hughes OSC-3 (Bit No. 39) at 9202'. Checked R.O.P., re-specied drilling line. Weight on hit -24; tons. Bud pump pressure. 1250-1300 psi. Rotary speed; 125-150 rpm.

Eastman Drill Pipe Survey at 9202' @ 0º 15'

Mud Weight 81% Mud viscosity - 45-50 seconds Send content 3% Water loss 5 cc. Cake thickness 2/32"

August 19

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VELL HISTORY "Souza" 1-36 (Continued)

1951

August 20 (Cont'd)

August 21

Drilling time: 12 hours, 30 minutes. Trip time, 6 hours, 30 minutes. Surveying, servicing rig, changing bits and circulating, 5 hours.

Prilled 9-7/8" hole from 9276' to 93k0'. Pulled Nughes OSC-3 (Bit No. 39) after it drilled from 9202' to 92k2', a total of h0' in 10 hours. Ran in hole with Hughes OSC-2 (Bit No. h0) at 92k2'. Pulled Nughes OSC-2 (Dit No. h0) after it drilled from 92k2' to 9307', a total of 65', in total 10 hours. Ran in hole with Hughes OSC-2 (Bit No. k1) at 9307'. Drill collars parted while hanging from elevators, fell through bit dock and buried 3 feet in the ground. Opposite end was caught by A frame of derrick. No one hurt, no damage to rig. Hetrieved collar from A frame, and loaded out broken collars to be repaired. Height on Fit - h-5 tons. Nud pump pressure 1250-1300 psi. Hotary speed, 125-150 rpm.

E.D.P.S. at 9307' 0 1º 00'.

Mud weight: 81/ Mud viscosity - 49-50 seconds. Mater loss. 5 c.c. Sand content 3% Cake thickness 2/32"

Drilling time: 11 hours, 15 minutes. Trip time - h hours, 15 minutes. Loading out and retrieving broken drill collars - 3 hours. Surveying, changing bits, slipping drilling line - 5 hours, 30 minutes.

Formation drilled consisted of hard brown shale; with streaks of very hard, lime-cemented sandstone.

August 22

Drilled 9-7/8" hole from 93h0' to 9h03'. Fulled Wughes OSC-2(Sit No. hl) after it drilled from 9307' to 9372', a total of 65' in 9-1/h hours. Nam in hole with Wughes OSC-2 (Bit No. h2) at 9372'. Adjusted brake on draw works, slipped drilling line. Wud pump pressure - 1250-1300 psi. Weight on bit, 2-h tons. Hotery speed, 125-150 rpm.

E.D.P.S. at 93721 0 0 551.

Mud weight, 81# Mud viscosity, 47-50 seconds Water loss: 5.2 ce-5.6 cc. Sand content 2-2.5% Cake thickness: 2/32"

Formations drilled consisted of shale with streaks of sand and shale.

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Page Fifteen

WELL HISTOPY "Souza" 1-36 (Continued)

1951 August 23

Drilled ~-7/8" hole from 9422' to 9552'. Pulled Hughes OSC-2 (Pit No. 42) after it drilled from 9372' to 9422', a total of 50'. Han in hole with Hughes OSC-1 (Bit No. 43) at 9422' and drilled to 9552'. Fulled Hughes OSC-1 (Bit No. 43) after it drilled from 9422' to 9552', a total of 130 feet in 13-3/4 houre. Weight on bit, 3-6 tons. Fud Pumap pressure, 1250-1300 psi. Rotery speed, 125-150 rpm.

Fud weight, 30-81#. Fud Viscosity, hh-50 seconds. Cand content, 35 Nater loss, 5.4-5.6 cc. Cake thickness, 2/32"

Circulated the following drilling breaks, 9465'-9470', 9493'-9505', and at 9517'. These breaks had only alight traces of gas, as indicated by gas indicator operated by Peters Well Logging Service.

Prilling time: 13 hours, 15 minutes. Frip time, 1 hours. Circulating drilling treaks, changing bits, servicing rig 6 hours, 15 minutes.

Drilled 9-7/8" hole from 9'52' to 9578'. Measured out of hole (OK) when pulling Hughes OSC-1 (Bit No. 14) after it drilled from 9552' to 9578', a total of 26'. Han in hole with Dunlap Hire-line Core Barrol with 7-5/8" Hughes Hock Head (Bit No. hh-1) and cored from 9583' to 9611', a total of 28'. (See Core Record and Description). Weight on bit 2-h tons. Hud Pump pressure, 900-1200 pei. Potary speed, 75-150 rpm.

Mud weight, 31+82% Mud Viscosity, 60-65 seconds. Sand contert, 3% Nator loss, 5.4-5.7 cc. Cake thicknoss, 2/32"

Drilling time, 3-1/2 hours. Coring time, 5-1/2 hours. Making up coring tools, measuring out of hole, circulating mud, working on pump, pulling cores, 15 hours.

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Cored 7-5/3" hole from 9611' to 9651'. Pulled Dumlap Core Darrel (Bit No. Ld.-1) after coring from 9578' to 9611', a total of 33' in 6 hours. Ban in hole with Dumlap Pbl. (E1t No. Ld.-2) and cored from 9611' to 9651', a total of b0' in 9-1/2 hours. Fulled Dumlap Pbl. (Bit No. Ld.-2) and ran in hole with Dumlap Fbl. (Bit No. Ld.-3) at 9651'. Sud pump pressure, 850-900 psi. Neight on bit, 3-4 tons. Rotary speed, 50-75 rpm.

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August 24

Page Sixteen

VELL HISTAR "Souze" 1-36 (Continued)

1951

August 25 (Cont'd)

Form 103

And Weight, 92-92. And Viscosity, 55-60 seconds Sond content: 37 Nator loss, 6.6-6.8 cc. Cake thicknoss: 2/32"

Coring time, 9-1/2 hours. Trip time, 5-1/2 hours, Pulling cores, changing bits, servicing rig, 9 hours.

August 26

Cored 7-5/8" hole from 9651' to 9716', Fulled Dunlap Mire-line Core Bbl. (Mit No. Ma-3) after it cored from 9651' to 9713', a total of 65' in 9-3/4 hours. Circulated and conditioned and prior to running Electrical Log. Mud Pump pressure, 850-900 pei. Meight on bit, 3-5 tons. Rotary speed, 55-60 rpm.

Yud weight, 80-81" Mud Viscosity, 49-50 seconds Dater loss, 6.8-7 cc. Send content 3-43 Cake thickness: 2/32

Coring time, 9-3/4 hours. Fulling cares, 8 hours. Fulling pipe, 2 hours. Fervicing rig, conditioning mud for electrical log, h-1/4 hours.

August 27

Circulated and measured out of hole for Schlumberger. Corrected measurement @ 9713'. Pan Schlumberger Electrical Log and recorded from 9712' to 7127' Pepth reached by Schlumberger @ 9713', checking' drillers measurements above. Dan 'n hole with Hughes OHC (Bit No. 15) and drilled 7-5/8" hole 9713'-9798'. Veight on bit, 1: tons. The Dump Pressure, 1200 psi. Rotary speed, 150 rpm.

Mid Seight, 215 Mid Misrocity 50 seconds Sand content, 1.5-25 Sater loss, 7.4 cc. Cake Thickness, 2/32"

Wrilling time, 5 hours, 30 minutes. Conditioning mud for Schlusberger, 7 hours, 30 minutes. Hunning Schlumberger 3 hours, 15 minutes. Trip time, 5 hours. Circulating drilling break at 9798' for logging service, 2 hours, 15 minutes.

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TLL HISTORY "Souza" 1-36 (Continued)

1951

Form 103

August 28

Prilled 7-5/8" hole from 9798' to 9921'. Fulled Highes OSC (Bit #45) after it drilled from 9713' to 9819', a total of 106 feet in 9 hours. Fan in hole with Hughes OSC (Bit #46) at 9819'. Circulated drilling breaks for logging service at 9872' and 9885'. No shows recorded from samples. 18" Oil Well Pump broken down; drilling with 11" standby pump. Weight on bit, 3-h tons. Mud Pump pressure: 1000-1250 psi. Rotary speed, 125-150 rpm.

Mud weight, 81# Mud Miscosity: 57-55 Seconds Sand content, 1.5-2% Mater Loss: 7.5-7.6 cc. Cake thickness: 2/32"

Frilling time, 11-1/2 hours. Trip time 1-1/2 hours. Circulating drilling breaks for logging service, 6 hours. Changing bits, servicing rig, loading out 1-1/2" drill pipe - 2 hours.

Prilled 7-5/8" hole from 9921' to 10,007'. Fulled Hughes OSC (Bit No. M6) after it crilled from 9819' to 9977', a total of 158' in 12 hours. Ran in hole with Hughes OSC (Bit No. L7), and drilled from 9977' to 10,007'. Fulled Hughes OSC (Fit No. L7) after it drilled 30 feet in 2-1/2 hours. Ran in hole with Dunlap Fire-line Core Bbl. with Hughes 7-5/8" rock head at 10,007'. Circulated and conditioned mud. Fuilding up mud weight. Fud Pump pressure: 1000-1250 psi. Weight on bit. 2-5 tons. Botary speed, 120-150 rpm.

Hud Weight 0 after being conditioned: 85#. Fud Viscosity: 15-50 seconds Sand content: 2% Sater loss: 7 cc. Fud cake thickness: 2/32"

Drilling time - 6 hours, 30 minutes. Trip time: 7 hours. Circulating much to build up weight, 6-1/2 hours. Working on water pump which was sended up: 2 hours. Making up tools for coring, servicing rig: 2 hours.

Cored and drilled 7-5/8" hole from 10,007' to 10,08h'. Pulled Dumlap Core Bbl. (Pit No. h7-h) after coring from 10,007 to 10,037', a total of 30 feet in 6 hours. Ban in hole with Duches OSC (Fit Bo. h8) at 10,037', and drilled 7-5/8" hole to 10,08b'. Slipped drilling line,

August 29

August 30

<u>Na 200</u>

Page Sighteen

WELL HISTORY "Souza" 1-36 (Continued)

1951 August 30 (Cont'd)

and checked blow-out Preventer (O.F.). Weight on bit: 3-5 tons. Mud pump pressure: 800-1250 pei. Rotary Speed: 125 rpm.

Mud Weight: 84-854 Mud Visconity: 15-48 seconds. Mud sand content: 2% Veter loss: 5.2cc. Cake thickness: 2/32".

Drilling time 10-1/2 hours. Fulling cores: 1 hours. Circulated drilling break 3 10,067'-10,079' for logging Service: 2 hours. Trip time: 4-1/2 hours. Making up tools, and servicing rig: 3 hours.

Prilled 7-5/8" hole from 10,084' to 10,180'. Pulled Hughes 080 (Eit No. 48) after it drilled from 10,037' to 10,153', a total of 114 foot in 12-1/2 hours. Pen in hole with Hughes OSC-2 (Fit No. 19) at 10,153'. Rotary chains were vorn and broken and had to be replaced. Checked Blow-Jut reventer - 0.". Perviced drill-collars. Hud Pump Freesure: 1,000-1250 pst. Weight on bit: 3-5 tons. Notary speed: 125-10 rpm.

E.D.F.S. at 10,153' @ 2° 00'.

Mud Weight: 86-87# Mud Viscosity: 15-50 seconds. ster Loss: 15 minute test @ 4.6 to 5.6 ec. " " 30 minute test 8 6.8 to 8.4 cc. Sand content: 1 to 2% Cake thickness: 2/32" plis 7.0

Prilling Time: 10-3/1: hours, Circulating for Poters Logging Service: 1-3/4 hours. Trip time: 5 hours. Repairing rotary chains: 3 hours. Changing bits, surveying, servicing rig, slipping drilling line: 3-1/2 hours.

September 1

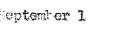
Frilled 7-5/8" hole from 10,180' to 10,321'. Fulled Hughes 036-2 (Fit No. 19) after it drilled from 10,153' to 10,281', a total of 128 feet in 13-1/2 hours. Nam in hole with Hughes OR-2 (Bit No. 50) at 10,281'. Slipped drilling line, installed new drive chain.

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19

eight on bit: 3-5 tons Rotary Speed: 125-150 rpm. Bud pump pressure: 1100-1200 psi.

Sud Meisht: 86-888 Mud Viscosity: 50-60 seconds



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August 31

Form 103

Page Wineteen

WELL HISTORY "Soura" 1-36 (Continued)

1951 Neptember 1 (Cont'd)

Sentember 2

Hud sand content: 2% Sater loss: 8.2-9 cc. Cake thickness: 2/32" pH: minimum @ 7.0 - Maximum @ 8.5

Drilling time: 15-1/2 hours. Trip time: 3-1/2 houre. Changing bits, Servicing rig, and slipping drilling line: 5 hours.

Trilled 7-5 A" hole from 10,321' to 10,638'. Fulled Fughes OSC-2 (Bit No. 50) after it drilled from 10,281' to 10,386', a total of 103 feet in 12 hours. Ran in hole with Hughes OSC-2 (Bit No. 51) at 10,386'. Cerviced drill collars and slipped drilling line.

E.D.P.S. at 10.384 * @ 12 15.

Weight on bit: 3-6 tons. Bud pump pressure: 1,000-1100 psi. Rotary Speed: 125-150 rpm.

Mud Weicht: 875 Mud viscosity: 60-70 seconds. Mud water loss: 7 cc. Cake thickness: 2/32" pH: minimum @ 7.0 - Maximum @ 7.5

Drilling time 16-1/2 hours. Trip time: 5 hours. Surveying, Servicing rig, and servicing drill collers: 3-1/2 hours.

Septender 3

Drilled 7-5/8" hole from 10,138" to 10,538". Fulled Hughes OCC-2 (Bit No. 51) after it drilled from 10,381," to 10,150", a total of 66 feet in 13 hours. Nam in hole with Hughes OSC-2 (Dit No. 52) at 10,150". Fulled Hughes OSC-2 (Dit No. 52) after it drilled from 10,150" to 10,538", a total of 68" in 9-1/2 hours. Serviced drill collars.

Mud pump pressure: 1200 psi. Meight on bit: 3-6 tons Rotary speed: 125-150 rpm.

Mud weight: 87-89# Mud Viscosity: 50-55 seconds Mud Sand content: 2% Mater loss: 7 cc. Cake thickness: 2/32"

Drilling time: 12-1/2 hours. Tris time: 7 hours. Changing bits, and miscellaneous repairs to rig: 1-1/2 hours.

Page Twenty

Vorm 103

WELL HICTORY "Sousa" 1-36 (Continued)

cepter or h

Drilled 7-5/8" hole from 10,536' to 10,634' (Total depth # driller) pulled Hughes OSC-2 (Bit No. 53) after it drilled for 9-3/4 hours, making a total of 96 feet. Conditioned and for Schlunberger Electrical Log. Circulated off bottom for ? hours: then milled up to top of rat hole at 9578' and turned mud over.

Geight on bit: 3-5 tons Potary speed: 125-150 rpm. And pump pressure: 1100 ps1.

itud Soight: 87-88 Mud viscosity: 53 seconds Sand content: 35 Mater loss: 7.4-8.3 cc. Cake thickness: 2/32"

Trilling time: 9-3/h hours. Trip time: 5-3/h hours. Circulating and conditioning mud for Electrical Logi 6-1/2 hours. Checking B.J.P. and servicing rig: 2 hours.

Ren 3rd, run Schlunberger Electrical Log and recorded from 10,631," to 9,712". JOIN. DEPHI of well by Schlunberger @ 10,635' as compared with drillers' measured depth of 10,631.31'. (Changed from L-1/2" to 3-1/2" drill pipe at 83151).

Called Division of Oil 6 Cas in Coalinga at 9:00 a.m. and discussed Abandorment Procedure.

With open-end 3-1/2" drill-pipe hanging at 1200 feet, mixed and pumped in h0 sax Type-C Permanente Construction Cement treated with 1/2 sack Placele. Displaced coment with 48 cu. ft. drilling "luid. Let set 6 hours and found top of firm coment plug at 116'. This plug bridges across the fresh-water brackish-water interface which occurs at 1165'.

Shing open-end 3-1/2" drill-pipe at 3961. Mixed and pumped in 10 eax fermenente Type-C Construction Commt treated with 1/2 sack Flocels. Firplaced cement with 16 cu. ft drilling fluid. After 5-1/2 hours found top of set cement at 350'. This lug bridges from 20' below to 261 above the shoe of the 14" surface casing; which was comented to a depth of 376', drillers measurements.

Above cementing done with Falliburton Tower Equipment and bulk cement.

September 5

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age Twenty-one

MELL HISTON "Soura" 1-36 (Continued)

1951

Contid).

Cut 14" s rface casing at cellar depth and placed a 10 foot cement plug in top of same.

2.

location and hardness of above plugs witnessed by ingineer of Operator.

Implugged portions of hole ware laft full of heavy mud.

Well ABANDONED in above condition September 5, 1951.

2 2.

SUBMIT IN DUPLICATE

Page One

____B. & M.

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Sec

36

Operator

L, M. LOCKHART

"SOUZA" 1-36

Field PANOCHE CREEK AREA, FRESNO COUNTY

T. 145 R. 121 H. D.

FORMATIONS PENETRATED BY WELL (DE ILLERS' LOG)

זימשת	т то		1		
Top of Formation	Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
10p of Formation	Bottom of Formation				······································
0	751	75'	Drilled		Soil, sand, gravel, clays; conglomerate wash.
751	115'	401	11		Pea gravel.
115'	150'	35*	11		Sand and gravel.
150'	2251	751	11		Sard sand.
225 1	3761	151'	11		Shale, streaks sand and gravel.
3761	5981	222*	41		Shale.
5981	6571	591	tt	· · · · ·	Shale.
657'	6661	91	Ĥ		Shale.
6661	1298'	6321	11		Shale with streaks sand.
1298	1541'	243*	11		
	1682'	143.	1		Shale with streaks sandy shale.
1541 ' 1682 '			51 1		Shale with streaks sand.
	1987*	3051	**		Shale.
19871	22541	3671	15 18		Sandy shale and shale shells.
22541	2535	2811	TT TT		Elue shale and coarse sand.
25351	25851	501	1 \$1 \$1		Shale with streaks of sand and hard shale.
25851	2631.1	46			Sand with streaks of shale.
2631'	26591	28	1: 詳 		Elue shale with streaks of sand.
2659*	28721	213'			Shale and shells.
28721	29501	781			Shale (soft)
29501	3201'	251'	R.		Hard brown shale.
3201'	3381'	180'	EF.		Shale.
33811	35281	147.	E.	•	Shale.
35281	3616	88*	191		Hard brown shale
36161	37791	163'	41		Shale.
3779	3893'	114	11 -		Shale and shells.
3893'	3985	921	辞		Hard brown shale, streaks sand.
39851	4210'	2251	t		Shale with streaks sand,
4210'	42201	10'	11		Sandy shale.
42201	4291'	71'	11		Slick shale.
4291'	1,382'	91'	3 1		Shale, streaks sand.
4382	14181	361	11		Shale with streaks of sand.
44181	45031	851	1		Shale with streaks of sand.
1.503	45421	391	11 II I	and an and a second s	-ilty shale.
45421	4657	115'	St. 1		Shale and shells!
46571	4715'	581	#	÷	Shale.
1,7151	18501	135'	#	a an	Shale.
48501	49091	591	11		Shale.
4909 t	50781	169'	11		Sandy shale.
50781	52181	137'	H.		Shale.
52151	53291	111:*	it		Shale and send shells.
53291	53691	10'	н		Shale, streaks sand.
53691	54861	117*	11		Shale.
			8		
					2.3
		1	4	1	

SUBMIT IN DUPLICATE

Page Two

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator L. H. LOCKHART

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Field PANOCHE CREEK AREA, FERSNO COUNTY

Sec. 36, T. 115, R. 12E, N. D. B. & M. "SOUZA" 1-36 Well No.____

FORMATIONS PENETRATED BY WELL (DRILLENS' LOG)

DEPT	H TO		Drilled		
Top of Formation	Bottom of Formation	Thickness	or Cored	Recovery	DESCRIPTION
13 CV +	property and a	67.4	P		in the second
5486	55471	61'	Drilled		Shale.
55471	5661'	114	-		Shale,
56611	5731'	701			Shale.
5731'	5764.1	3 3†	* E		Shale,
57641	י5770	61	47 -		Prilling Break. Circulated for Feters Lorging Magon sample. Mashed material recovered consisted of trace of gray shale; dark brown shale estimated 95%.
57701	58561	86*	17		Shale.
58561	59331	771	R .		Shale.
	59521		框		
59331	9752*	19*	4 9.2 1		Drilling Break. Circulated as above. Recovered gray silty shale 60%; dark brown shale 20%; sand 20%.
59521	59551	31	11		Shale.
59551	5961'	61	žt		Brilling Break. Circulated as above.
م کی طریعہ ²	م <i>له مر مر مر</i>	Nµ2 -			Recovered gray silty shale 60%. dark trown shale 20%; sand 20%.
59611	60021	111*	11		Shale,
مە ~ بر بر	60021	. Viņista	₹Ţ.		Drilling break at 6002'. Circulated as above. Recovered gray silty shale 50%; dark brown shale 25%; sand content 25%.
6002*	60531	51'	12		Shale.
	61331	- 201	17		Shale.
60531	6135. 6144.		1	·	
61331	©¥111.⊧ 	11'			Drilling Break. Circulated as above. Recovered fine to medium clayey sand 90%; dark brown shale 10%.
6111:1	62h01	961	RE CONTRACTOR		Hard shale, streaks of sand.
621.01	62501	10'	* 6.1	CEN I	Drilling Break. Cinculated out as above.
− en engl' a			j.		Recovered clayey sand 80%; dash brown shale 20%.
62501	62701	201	е лу си 11 г. дости		Hard shale, streaks of sand.
62701	63301	601	11		Hard shale, streaks of sand.
63301	63471	17'	11		Shale.
63471	63751	581	11		Shale.
6375	61.651	201 901	** †*		Broken sand and shale.
61.651	Ch05+ (1.72+	71	-11		Shale shell.
					24
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SUBMIT IN DUPLICATE

Page Three

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator <u>I.M. IOCKHART</u>

Field PANOCHE CREEK AREA, TRESNO COUNTY

Well No. "SOUZA" 1-36 Sec. <u>36</u> 11,5, R. 12E, M. D. B. & M. .., T..

> FORMATIONS PENETRATED BY WELL (DRILLERS' LOG)

DEPT	н то		Drilled		
Top of Formation	Bottom of Formation	Thickness	or Cored	Recovery	. DESCRIPTION
6472 6478 6510 6530 6570 6679 6685	6478 6510 6530 6570 6679 6685 6704	61 321 201 401 1091 61 191	Drilled n n n n n		Broken shale. Sandy shale. Hard brown shale. Shale and shells. Shale and shale. Drilling Break. Circulated for Peters Logging Tagon sample. Recovered dark brown shale 20%; gray shale 20%; sand content 60%.
6704 6720 6725	6720* 6725* 6730*	161 51 51	91 33 33:		Shell. ^{Hard} shale. <u>Drilling Break</u> . Circulated out for sample as above. Recovered trace of sand; trace of brown shale; gray shale 95%.
67301 67461	6730' 6746' 6754'	16* 8*	15 31 37		Drilling shell at 6730'. Sand, shale, and shells. Drilling Break. Circulated for samples as above. Recovered trace of sand; trace of brown shale; gray shale 95%.
67541 67671	67671 67801	131 131	15 #1		Sand, shale, and shells. <u>Prilling Break</u> . Circulated as above. Washed material recovered consisted of gray shale 95%; trace of brown shale; trace of sand.
67801 68391 68911 69661 69951	68391 68941 69661 69951 70041	591 551 721 291 91	11 17 11 11 11		Sand and shells. Shale. Sand, shells, and shells. Shale and shells. <u>Drilling Break</u> . Circulated as above. <u>Recovered fine clayey quartz sand 95%;</u> trace dark brown shale.
700L1 70251	7025 ' 7130'	21 <i>1</i> 1051	18 18 18		Shale with streaks of sand. Circulated at 7025' for Peters Logging Magon sample. Recovered (washed material) trace dark brown shale; fine clayey sand 95%. Sand, sandstone, and shale. Corculated as above at 7025'. Recovered dark brown shale 60%; clayey sand h0%.
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STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Sec.

36

L. M. LOCKHART Operator

Field PANOCHE CREEK AREA, FRESNO COUNTY

"SOUZA" 1-36 Well No.

M. D. B. & M. , T. <u>145</u>, R. <u>12E</u>

FORMATIONS PENETRATED BY WELL (DRILLERS' LOC)

DEPTH TO			Drilled				
Top of Formation	Bottom of Formation	Thickness	or Cored	Recovery	DESCRIPTION		
					Circulated at 7060'. Decovered dark brown shale 70%; clayey sand 30%.		
					Girculated at 7094'. Recovered dark brown shale 30%, clayey sand 70%.		
			,		Circulated at 7130'. Recovered dark brown shale 90%; gray clay shale 10%; trace of sand.		
7130'	7220'	901	Drilled		Sand, shale, and sandstones. Circulated at 7220'. Recovered trace dark brown shale; gray clay shale 20%; sand content 80%.		
72201	7270'	501	11		Sand, shale and sandstones. Circulated at 7270'. Recovered dark brown shale 10%; gray clay shale 90%; trace of sand.		
7270'	7281'	11*	12 .		Sand, shale, and sendstones.		
7281'	.73551	741	纬		Sand, and shale shells.		
73551	7414	591	72.		Sand and hard shale.		
7hih'	7494	801	11		Hard shale.		
749h ·	75311	401 661	11		Shale and shells.		
75341 76001	76001 76161	161	15		Shale and shells. Sand and shells.		
76161	7737'	121*	17		Sand and shells.		
77371	7829	921	13		Sand and shells. Circulated out at 7829'.		
					Recovered gray clay shale 30%; dark brown		
_			-		shale 20%; medium to fine sand 50%.		
78291	78631	341	11		Sand and shells.		
7863 ' 7918 '	7918 ' 8074 '	551 1561	11 17		Sand and shells.		
80741	81351	61.	11 11 - E. L E E E E E E		Sand and shells.		
8135'	811.21	71	11		Shale.		
81421	81821	401	17		Shale, streaks sand.		
81821	8256*	7ኪ י	yt		Shale.		
82561	8260*	ht	11	a	Shale with streaks sand.		
82601	83151	551	11 		Hard sand, streaks shale. Circulated		
		-	interior de la companya de la		out at 8315'. Recovered trace gray clay shale; trace of sand; dark brown shale 95%.		
83151	83421	27'	11		Hard sand with streaks shale.		
83121	83901	1.81	. I T		Shale.		
\$3001	84201	301	н		Shale.		
84051	RF554	21	CORE NO.A		Cored 2' of hole (8420'-22') with Globe Junk Basket in recovering rock bit		
. •					24		
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SUBMIT IN DUPLICATE

Page Five

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator I. M. LOCKHARP

Field PANOCHE CPEEK AREA, FRUSHO COUNTY

Well No. "SOLIZA" 1-36 Sec. 36 , T. 1/19 , R. 12E , M. D. B. & M.

FORMATIONS PENETRATED BY WELL (DETLIFES' IM)

DEPT	н то		Drilled		DECOMPTION A		
Top of Formation	Bottom of Formation	Thickness	or Cored	Recovery	DESCRIPTION		
81750+	84221	21	CORE A	(Cont'd)	cone. (See core description).		
8422 8466 8491 8565 8583	8466 8491 8565 8583 8598	14 25 74 18 15	Drilled H H H		Shale. Sandy shale. Silty shale. Shale. Drilling Break. Circulated out cuttings. from this interval for Peters Formation Loging Magon. Recovered (washed material) trace of gray clay shale; trace sand; dark brown shale 95%.		
8598 8601 8706 8717 8791 8839 8858 8858 8953 8953 8953 8953 9036 9059 9069	8601.* 8706* 8707* 8791* 8839* 8839* 8858* 8953* 8953* 8953* 8959* 9036* 9059* 9059* 9059*	6' 102' 11' 17' 15' 19' 19' 19' 19' 19' 19' 19' 19' 23' 10' 9'	特 韩 华 转 称 释 祥 祥 释 释 释 释 释 释		Sand and silty shale. Silty shale. Silty shale. Silty shale. Silty shale. Hard gray shale. Hard silty shale. Shale. Shale. Shale. Shale. Shale. Shale. Shale and thin streaks sand. Shale <u>Drilling Breaks</u> . Circuls ted out bit. Cuttings as above. Recovered dark brown silty shale 80%; trace of gray silty clavstone; sand content 20%.		
9078 9100 9107 9130 9130 9150 9150 9222 9219 9219 9219 9210 9310	9100' 9107' 9130' 9150' 9202' 9219' 9276' 9307' 9340' 9347'	221 71 231 201 521 571 31 331 71	21 1月 1日 1日 1日 1日 1日 1日 1日 1日 1日 1日 1日 1日 1日		Sticky shale, streaks sand. Hard shale. Shale with streaks of sand. Sticky shale. Shale. Shale. Shale. Shale. San and shale shells. Circulated at 93h7' for bottom hole sample of cuttings. Recov- ered dark brown silty shale 30%		
· <u>·</u> ·					27		

SUBMIT IN DUPLICATE

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STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator

L. M. LOCKHART

Field PANOCHE CHEEK AREA, FRESNO COUNTY

Well No.__

"SOUZA" 1-36

_, T. <u>145</u>, R. <u>12E</u>, <u>M. D.</u> B. & M. 36 Sec.

FORMATIONS PENETRATED BY WELL (DRILLERS' LOG)

DEPTH TO Top of Formation Bottom c	of Formation Thickness	Drilled or Cored	Recovery	DESCRIPTION
9340' 934'	71 71	Drilled	(Continued)	Gray silty clay 40%; fine to coarse sand 30%.
9347	21 191 51 331 51 101	75 77 77 72		Sand and shale shells. Sand and shale shells. Sand and shale shells. -ilty shale. Shale. Drilling Break at 9h65'. Circulated out cuttings from 9h70' for Peters formation Logging Wagon. Washed material recovered consisted of dark brown silty shale h0%; gray silty clay 30%; sand content 30%.
94.701 949 94901 949 94901 949 95051 950 95051 950 95061 952 95201 955 95521 957	61 61 51 91 61 11 01 141 21 321	93 73 75 75 75 75 75 75		Sandy shale, hard and soft streaks. Hard shale. Sandy shale, bard and soft streaks. Hard (shale). Dilty shale. Silty shale. Broken sand and shale.
95781 971	61 138*	CORES No. 1 to No.16 inclusive	99.7' (72.2% Recovery)	9578'-9716' Cored with Dunlap (Hunt) Wire-Line Core Barrel equipped with Hughes 7-5/8" Rock Head. This is first cored interval of well. Core No. 1 taken from 9578'-9583'. (See CORE RECORD for detailed CORE DESCRIPTION).
9716 1 979 9798 1 980 9805 1 981 9819 1 983 9836 1 987 9872 1 988 9885 1 992 9921 1 997 9977 1 1000 10007 1 1003	51 71 91 11.1 61 171 21 361 51 131 11 361 71 561 71 301	Drilled n n n n n CORES No. 17 to No. 19 inclusive	Recovery	Shale with streaks of sand Sand. Shell. Shele and sand. Sand and shale. Sand and shale. Sand and shale. Shale, streaks sand. Shale, streaks sand. 10007'-10037'. Cored with Dunlap Wire- Line Core Barrel with Hughes 7-5/8" Bock Head. This is second and last cored interval of well. (See COTE RECORD for detailed CORE DESCRIPTION)
100371 1007	91].21	Drilled		Broken sand and shale.

SUBMIT IN DUPLICATE

Page Seven

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator T. V. LOCVIERT Field PARCETE CORTY CONTY

Well No. "SOTIAN

_____<u>Sec. 36</u>, T. <u>145</u>, R. 12E, M. D.

(Completed [rilling

1-36

FORMATIONS PENETRATED BY WELL (TELESTED 100)

DEPT	нто		Drilled		
Top of Formation	Bottom of Formation	Thickness	or Cored	Recovery	DESCRIPTION
10079* 1-081:*	109841 101391	51 551	Drilled		Broken sand and shale. Sand and shale.
10139'	101801	111	χ <u>ε</u>		Broken sand and shale.
10160*	10265*	851	群		Sand and shale.
10265	10281'	161	111日 11日 11日 11日 11日 11日 11日 11日 11日 11		Sand and shale.
102811	10321	101	11. 11.		roken sand and chale.
10321、 1039年,	10384." 10401.	631 171	an. 转		Cand, streaks shale. Shale with streaks sand.
10401	101:02	11	帮		Sand.
101:021	104381	361	27		Shele.
101.381	104501	121	11. 11.		Shele.
104501	101.91'	hi.	Ħ		Shale.
10/31	105381	1,71	ाम		The set of
10538+	105531	151	Ŧť		Shale, streaks sand.
105531	10627.	71.1	15 15		Sand and thale
10627	10634,	71	\$\$ \$		Silty chale.
	10631.*			lers' Measu	
	10635*	TOTAL D	IPTH 🕆 Schl	mberger El	ectrical Log.
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			•		
			i ر.	i Jan V.	
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			2000 - 14 1970 - 14		To ward A
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B. & M.

Prec One

Form 101

DIVISION OF OIL AND C.S.

Operator: L. M. Lockhart

Location: Panoche Creek Area, Fresho County

Sec. 36 - TILS - RIZE - MDMM

Well: "Souza" 1-36

Elevation: 131.7' XB

CORE RECORD

Nate 1951	No.	From	<u>10</u>	Thick- ness	Fecov- ery	Type Shl.		Core Description
8-12	A	8µ50.	8 <u>1</u> 551	21	0.81	Globe Junk Basket	c. 81	Siltstone: dark gray, very hard, contains small irregular calcite streaks throughout, finely sandy. Contains abundant inoceramus prisms, and scattered small micro faune.
8-24	1.	9578*	95831	51	1.5	Fimlap Hire-line 7-5/8" Rock Head	1.51	andstone: light gray, fine, hard, well consolidated, and indurated in places; ashy and silty matrix; a very tight rock. Contains abundant jet black ferro- magnesium mineral grains and flakes giving a selt and pepper texture in places. Very fine silt and dark claystone laminas in middle show a fair average dip of 11°. No cut, no stain, no odor.
8-24	2.	95831	95931	10,	.	#	ŢŢŢŢ ŢŢŢŢŢŢŢ	Sandstone: light gray with abundant black grains as above, fine, solid, massive, hard, indurated, very tight rock, silty and ashy matrix. No cut, no stain, no odor.
6-57		95931	9601.1	ß ៖	2 .1 .		1.21	Sandstone as above. Fine dark clayed laminations at contact with claystone below show regular flat dips from 2° to 4°. No cut, no stain, no odor. Claystone: dark blackish-gray, look organic, hard, massive, solid, clea- wage planes at 9°. Contains small forams and fish scales. Irregular small fine gray sand laminae cross- bedded in bottom 2".
8-21	4.	96011	96111	101	7.01	te	7.01	Claystone; dark, blackish-gray, massive, solid, hard, very clayey, organic; scattered forams, inocera- mus prisms, and fish scales observed Contains small fine, tight gray

Page Two

· .	L. M Lockhart "Sousa" 1	-36
ζ.	Core Record (Cont'd)	
12 AT 19 19 19 19 19 19 19 19 19 19 19 19 19	nick- Recov- Type <u>ness ery 1b1.</u> 7.01 Dunlap Sire-line 7-5/8" Rock Read	 Core Description 7.0' sand patches and very thin laminae; slso fine sand and cleystone cross- bedding with irregular and wavy dips in all directions from flat to 15°.
8-25 5. 9611' 9618' 7'	t 8.5t st	3.0' (1.5' Pickup) Claystone: dark blackish-gray, organic, definitely clayey with little fine send or silt, hard, solid, massive; scattered small forams, Incoeramus prisms, and fish scales; very fine gray send laminae show irregular dive of h ^o
		 to 6°. 2.5' Sandstone: light gray with abundant ferro-magnesium specks, hard, consolidated, very tight with silty and ashy matrix, fine-grained, no cut, no stain, no odor. Fine shale laminae and shale streaks to 3" at bottom show irregular and cross-bedded dips 2° to 10°. 2.0' Claystone as above with fine send laminae and streaks showing irregular dips averaging 12°. 0.7' Sandstone as above, no stain, no cut, no odor. 0.3' Claystone as above, solid, massive, organic.
8-25 6, 96181 96231 51		1.7' (0.7' Pickup) Claystone: dark blackish-gray, organic appearing, hard, solid, generally massive but with many fine gray sand laminae toward bottom, Incoaramus prisms and small "bugs" observed; sand laminae cleavage planes, and fracture
; 		show dips from 3° to 10°. 1.8' Gray sand: dirty light gray with abundant small black ferro-magnesium grains; fine, hard, silty, tight, well consolidated, no cut, no stain, no odor. Good 10° dip in sharp sand clay-stone contact at bottom. 1.8' Claystone as above: solid, organic.
		1.8' Claystone as above: solid, organic. o.h' Gray sand as above: hard, consoli- dated, silty, ashy, tight. Seems to be dry and tight with little fluid. No cut, no stain, no odor.

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¹orm 101

L. M. Lockhart "Souza" 1-36

Core Record (Cont'd)

Date 1951	No.	Strom.	To	Thick-	Recov-	Type Bal.		Core Description
8 - 25	7*	9623+	9631*	81	6.01	Funlap Vire-line 7-5/8" Rock Head	3.01 0.51 2.51	Claystone: as above, a few gas "pook marks" broke out through and sheath at 1.5'. Gray sand; fine, hard, well con- solidated silty and dirty in places, very tight rock. At bottom cross- bedded with dark silt and claystone streaks and patches. No cut, no stain, no odor. Claystone/as above: dark gray, organic, massive, no dips observed.
8-25	₿.	9631*	961.1	10'	10.0'	≵	3.41	Claystone: dark ray, hard, solid, contains a little fine sand and silt, looks organic, scattered micro-fauma; thin and mostly irregular very fine gray sand laminae and partings scattered throughout; average of fair dips near bottom $@$ 12°; good clean dip at sharp sandstone contact at bottom $@$ 6°.
							2,31	
8S	9.	96111	9651 *	704	9 . 01		5	Sandstone as above: hard, well consolidated, tight rock, irregular claystone pertings at top, no cut, no stain, no odor. Claystone as above, finely sandy with fine gray and partings throughout

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Form 101

L. M. Lockhart "Souza" 1-36

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Core Record (Contid)

								And
Date <u>1951</u>	No.	From	To	Thick- ness	Recov-	Type Ebl.		Core Description
8-25	9 . ((96111 Contim	96511 med)	10'	9.01	Dunlap Wire-line 7-5/8" Rock head	1.0' h.6'	Sandstone as above, very tight rock. Siltstone: quite clayey but a siltstone finely sandy in places; dark blackish-gray, hard appears quite organic, generally solid material; contains plentiful thin
							• .	fine gray sand partings, irregular laminae, cross-bedded streaks, and inclusions throughout. Average of the better dips at the fine sand partings is from 8° to 11°. Common Inoceramus prisms observed, and scattered small micro-fauna. Bottom 2" is a hard, dark gray, very silty and dirty, fine, very tight sandstone.
8-26	10.	9651'	96611	10'	3.01	¥1	2.31	Sandstone: light gray, selt and pepper texture with black specks and grains asabove, hard and dense, fine grains in very finely sandy and silty matrix, very tight rock
						• .	0.71	and somewhat indurated, almost a shell. No cut, no stain, no odor. Claystone as above, thin fine gray sand laminae showing dips flat to 2°.
8-26	11.	96611	96711	10'	10,0'	11	3.01	Siltstone as in Core 9641'-9651'. Clayey, contains fine gray sand stre- aks and laminae with some good dips of 5° and 6.
						X	2,51	Sandstone as above with streaks of dark gray clayey siltstone. Good 8 dip in silt laminae.
					f .		1.51	Sand: same material as above but not as consolidated and dense, and more permeable. Composed of fine gray sand in a darker dirty-gray silt and very fine sand matrix; firm-hard fairly friable, massive, still a tight appearing rock, no
							2,31	cut, no stain, no oily odor. Looks wet and has a "sour wet" odor.
							0.7*	stain, no odor.

Page Five

L. M. Lockhart "Souza" 1-36

Core Record (Cont'd.)

Date 1951	No.	From	ol	Thickness	ery Pecov-	Type Thl.		Core Description	
8-26	11. (Co	9661. ntinued		101	10.01	Funlep Vire-line 7-5/8"	0,71	no odor, of oil or gas; looks wet and has a "Cour wet" odor.	
	f was	and the second distant of	*	-		Rock Sead		ney wurder en 🖉	
8-26	12.	96711	96811	10*	6.5*	83	0.81	Sand as above: gray, fine, silty and some dirty ash in matrix, hard to firm-hard friable, tight appearing, no cut, no stain, wat and brackish odor.	
							0,41		
ſ							1.01		
					t.		4.01		
							0.31		
8-26	13.	9681+	96911	701	9.01	1 7	0.31	Cray sand as above: hard, tight, no stain, no odor.	
							3.0*	Siltstone: dark gray, finely sandy, bard; fine gray sand streaks, cross bedded and wavy laminae, and sharp sand partings throughout; Sand partings give good 8° dips.	
							2.71	Hard sand nubbins with scattered thin streaks of siltstone.	
	e.						2,51		
							0.51	Fard send nubbins as above.	
F-26		9691*	97011	101	6.01	38	6.01	Sandstone: gray, hard, dense, tight, silty and dirty in places, selt and popper texture with grains and specks of jet black ferro-magnesium minerals abundant	
								contains occasionsl streaks and uneven laminations of dark gray	
					n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n ga na nagagi Tan Bara ang		siltstone. Portions of this	
					· · · · · ·			sandstone up to h" are lime comented into a shell.	

Form 101

L. M. Lockhart "Souza" 1-36

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CORF RECORD (Cont'd.)

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Dete 1951 No.	From	<u>**o</u>	Thick- ness		700 21.	Core Description
8-26 15	9701'	9711'	10'	10.0' Bunla Mro- 7-5/6 Rock	-line }"	Sand: Gray, hard, dense, well consolidated, micaceous, ashy and silty matrix, fine grained, looks tight. No cut, no stain
					4.01	no odor. Alternating streaks up to 3" of sandstone as above and finely sandy derk gray siltstone. Sandstone is line cemented into
					1. • !	an impervious shell in places. Siltatone: hard, dark blackish- gray, clayey with fine gray sand streaks and laminae. Dips from 6° to 10° .
8-26 16.	9711 [†]	97161	E.	7*01 n	4.0	Claystone: massive, colid, hard, organic, finely sendy in spots, dark brownish gray in color. One foot from top is h" of fine gray sand. One foot from bottom (called depth 9712' @ Schlumberger measurements), Claystone showed large bronze-colored fish scales with bright and iridescent luster.
8 -3 0 17	100071	100171	101	7.51 0	3.0*	Sandstone: dirty gray, fine, dense, hard, lime-cemented into a shell in places; contains scattered laminae and streaks to 2" of dark gray siltstone; selt and pepper texture; No cut, no stain,
			-		1.3'	no odor. Siltstone: dark gray, finely sandy, hard, contains laminations and streaks of fine gray sand up to
					0,71	1"; dips vary 7° to 10°. Sandstone as above but massive; no siltatone streaks or laminations. Hard, tight, no cut, no stain,
					2,51 	no odor. Siltstone as above with thin beds, streaks and laminae of hard, tight, gray sandstone. No cut, no stain, no odor.
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Form 101

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L. N. Lockhart "Souza" 1-36

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Core Record (Cont'd.)

Date 1951	No.	From	<u>10</u>	Thickness	Recov-	Type Bbl.	Core Description
8-30	18.	10017'	100271	10,	1.3'	Dunlap Mire-line 7-5/8" Rock Head	Sandstone: Light gray to dirty gray, fine hard, dense, tight, cemented into a shell in places with lime; contains a few thin irregular streaks of dark gray siltstone; shows salt and pepper texture at top with medium to large grains of jet black ferro-magnesium minerals; no cut, no stain, no odor.
8-30	19.	10027	10037'	10'	10,0'	Τf	Siltstone and sandstone 50/50; composed of cross-bedded streaks and lenses often with irregular and wavy texture; fine laminae, irregular to rhythmic; spots, inclusions and patches throughout - of siltstone and sandstone. Siltstone is dark gray, sandy to clayey and organic appearing, hard, tight, dense. Sand- stone is light gray to dirty gray; hard to very hard, indurated and lime cemented in places; tight and dense, finely laminsted with silt and contains re-worked inclusions of siltstone through- out; composed chiefly of very fine sub- rounded quartz grains; no cut, no stain, no odor. Nost dips are wavy and cross- bedded, but good dips from 6° to 8° were observed at sharp sandstone-siltstone contacts.

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June 1

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10635' Total Depth @ 9-4-51

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FORM 111 (1-49)

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P_5-9273 September 13, 19 51 Coalinga, _____Calif.___ MR. M. H. Fuller Box 165, Burrel, Calif. Agent for L. M. LOCKHART DEAR SIR: Your_____proposal to_____abandon____Well No. "Souza" 1-36 Section 36 T. 14S. R. 12E. M. D. B. & M. Field. FresnoCounty, dated Sept. 5, 1951, received Sept. 12, 1951, has been examined in conjunction with records filed in this office. Present conditions as shown by the records and the proposal are as follows: THE NOTICE STATUS: "The present condition of the well is as follows: 1. Complete casing record. 376' of 14" 47.54# New Smls. SJ casing cemented to surface with 650 sax of Type-C Const. Cmt. Drilled 10-5/8" hole from 376' to 8315'. 9-7/8" " " 8315' to 9578'. 11 7-5/8" " 9578' to 10,635' (Total Depth). Last produced. No Production" 2. PROPOSAL: "The proposed work is as follows: 1. To plug w/cmt. from 1200' up and across the fresh-water brackish-water interface which occurs at 1165*. Top of hard cmt. must be found as high as 1165'. To plug w/cmt. from 20' below up to 20' above the shoe of the 14" surface 2. casing. Top of hard cement must be found as high as 356'. 3. Location and hardness of above plugs to be witnessed by Engineer of Operator. 4. Unplugged portions of hole to be left full of heavy mud. To cut 14" surface csg. at cellar depth and place a 10° cement plug in the 5. top of same. No steel plate required over top. To ABANDON well in above condition. 6. NOTE: Above abandonment procedure verbally approved via telephone by Mr. Chas. H. Corwin of Division of Oil & Gas, Coalinga, Sept. 5, 1951." DECISION: THE PROPOSAL IS APPROVED. Bond No. 966767 GGP:ef

R. D. BUSH

State Oil and Gas Supervise

úl_____Deputy

cc:

Orig: Company, L.A.

Mr. M. H. Fuller

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

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

·	Burrel	Calif	Sept. 5	<u> </u>
DIVISION OF OIL AND GAS	•			
Coalinga	Calif.			
	s. 3228, 3229, 3230, 3231 and		Stat. 1939, notice	is hereby given
that it is our intention to abandon well No	"Souza" 1-36			
Sec. 36 , T. 14 S. , R. 12 E.	, <u>M. D.</u> B. & M	Panoche Cre	ek Area	-Ecld,
Fresno	County, com	mencing work on	the 5th	day
of September	<u>1951</u>			
The present condition of the well is as follows:	: .			
1. Complete casing record.				
376' of 14" 47.54# of Type-C Const. Cmt.		cemented to	surface wit	h 650 sax
Drilled 10-5/8" hole " 9-7/8" " " 7-5/8" "	from 3761 to 83151. " 83151 to 95781. " 95781 to 10,635	' (Total De	pth).	
2. Last produced. <u>No Pr</u>	oduction		·	
Date The proposed work is as follows:	Net oil	Gravi	ζÿ	Cut
 To plug w/cmt. from 1200' which occurs at 1165'. To To plug w/cmt. from 20' be Top of hard cement must be Location and hardness of a 4. Unplugged portions of hole To cut 14" surface csg. at of same. No steel plate r To ABANDON well in above c 	p of hard cmt. must low up to 20' above found as high as 35 bove plugs to be wit to be left full of cellar depth and pl equired over top.	be found as the shoe of 6. nessed by E heavy mud.	high as 116 the 14" sur ngineer of C	fice casing.
approved via te Corwin of Dovis Sept. 5, 1951.	nt procedure verball lephone by Mr. Chas. ion of Oil & Gas, Co	H.		· ,
	British British	-71	Deckhart Deckhart	

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS TOTALE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS TOTALE

By.

FORM 111 (1-49)

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

						No. P 5	-9812
			Goa	linga,	Calif. July]		
36-	M. H.	Fuller			Cann	<u></u>	
WIR.							
		Agent for L. M. I	DOGRAARI				
Dea	ar Sir:						
	You	ur	proposal to	arll	Well No	Souza" 1-5	6
Sect	tion36	., T. 145., R. 122.,	,B. & M.,	4338 qoá que	Field,Fre	sno	County,
date	ed July	10, 1951, received	July 17, 19 51	L, has been examined i	n conjunction wit	h records filed in	n this office.
	Pre	sent conditions as showr	n by the records and	the proposal are as fol	lows:		
		e states:					
ŧ		description of 1			• • • • •		1
		ll is 660 feet S ion of ground ab			3. 1/4 cor. 5	ec. 36-14/	18
		pth measurements			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	a 12.5 Pap	t above
	groun			els an second brief	**************************************		4 GD040
	We est	imete that the f	irst productiv	re oil or gas se	und should be	encounter	ed at a
	dəpth	of about 6750 f	'eot."				
PRC	OPOSAL:						
		pose to use the	following stri	lngs of easing.	either cemor	ting or la	adira
		as herein indica		and the second			11.114.1462
	S	ize of Casing,	Weight, Lb,	Grade and	Depth	Landed or	r
		Inches 14	per Jooi	Туре		Cemented	
		14	47.54	SmlsSJ	600*	Clatd.	-
	** **	5 1/2		J-55 & N-80		Cratd.	
e) 	TO TO	understood that before comenting	II Ghanges in or lording of	this plan bacon	le necessary	we are to 1	notify
surfac		001010 00140119A119	, VA 200022165 65	3			
HD III (CISION:						
ratultione	PHE PRO	POSAL IS APPROVE	D PROVIDED TH	17:			
Antes Antes	1. Wa	ter suitable for	irrigation sh	ell be protecte	d from conta	mination.	
	Ze 160	a riula or surri	cient weight a	and proper consi	stoncy to pr	event blow	-outs
ton! ton!	118 **	all be used in d	rilling, and t	me column of mu	a iluid shal	1 be mainta	ained
11111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3. Ad	the surface at equate blow-out	art venus, per neorantion and	tomant aball be	purring the	aritt Dipe	3.
1900 - 19		eration at all t	lags.	all and a suider of	broarded au	w wahe LGG	TÀ TOL
hollowed in fight, sifty higher than England i at 6630, wet int at 165, up cem. 1536, to now up cem. 1536, to now		e 14" casing sha		l with sufficier	t cement to	fill back o	of this
to the state	Ca	sing from the sh	oe to the grou	md surface.			
	5. Th	is Division shel	1 be consulted	I regarding the	comenting de	pth of the	5 1/2"
tows, Hoo	¢a	sing before runn	ing it into th	le hole.			
untu mellig varence varence	6. 191	IS DIVISION SHAL	L HE NOFIFIED.	TO WITNESS a te	st of the 5	1/2" water	shut-
AUR C	*^	f through four s perforating the	not perforatio	ms immediately	above the ob	jective sa	nd, prior
	90 9	Frankling Units	ener 1-17-51	WEING DECORD			
1 E BUNY COTWIN T. D. 10/635 TO S Structurally well Top Jorgins zorre Freshwing water To To To Structure To To Structure La Converter La Converter	ad No.	966767 Joila	ence 1-1-51 12014" hale to	§ 🐴	-	22.00	
	?;gh	14" casi	MG JAORE 91 51	6 0.01 10	$\square \cap$		
b Ori			Sala la com	Jule On and Gas	Supervisor	V	
9/5/5'	ee: Mr	. M. H. Fuller	n for Louis		7. 7.	tend	Deputy
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FORM 105 (2-49) CALIFORNIA STATE PRINTING OFFICE

> STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

019-06032 Notice of Intention to Drill New Well

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

Los Angeles, Calif. July 10, 19 51

9

jεp.,

DIVISION OF OIL AND GAS

COALINGA, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 19	39, notice is hereby g	iven that it is ou	ir intention to
commence the work of drilling well No. "Souza" 1-36		, Sec. <u>36</u>	, т. <u>14</u> S.,
R. 12 E., M.D. B. & M., PANOCHE CREEK AREA		FRESNO	County.
Level description of Level Section $36 - 14/12$			
The well is 660 feet IN SES. , and 660 feet EX SEW (Give location in distance from section corners or o	.from the E, 1/4	cor. Sec. 3	6-14/12
(Give location in distance from section corners or o Elevation of ground above sea level 419.2 feet.	ther corners of legal subdivision)	19.2	
Elevation of ground above sea level 419.2 feet. All depth measurements taken from top of Kelly Bush	ning	2.5	, which is
<u>12.5</u> feet above ground. We estimate that the first productive oil or gas sand should be en	ι	· ·	feet

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
14	47.54	Smls, - SJ	600*	Cmtd.
5 1/2	23	J-55 & N-80	10000 ^t	Cmtd.
•	÷			· · · · ·

It is understood that if changes-in-this plan become necessary we are to notify you before cementing or landing casing. Address 824 Wilshire Blvds, Los Angeles 17, Celif. Telephone number TRinity 1588 By Man M. Bal

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

Well Records for Artificial Penetration #6

Roberts #1

(API No. 1906039)

MAP & BOOK

STATUS

Completed P:	roducing	
Recompleted	Producing	a de la constantina d
Completed AN	oandoned	
Uncompleted		1.1
Idle	· · ·	

	CORDS		
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Oth	ner		
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RICHFIELD OIL CORPORATION

	•		APR 22 1964 6
COMPLETION REPORT OF_	New	WELL NO B	oberts ##ODLAND, CALIFORNIA
FIELD Cheney Ranch Area	(NEW, DEEPENING, ETC.)	1000 Beach 7	
east of the northwest corner o	f Section 33.		le south and 330 feet due
COMMENCED DRILLING December 22,	1963 0000		WHICH IS 14 TT. ABOVE CROLING
COMMENCED Drilling December 22, WORK ORIG. T. D. 8772' PLUG 1844 DEEPENING	5 1692 Plu	WORK January 12. 10	
DEEPENING	REDRI	EE <u>550</u> <u>1185</u>	PLUG 29 19
	PLUG	JUNK None	

	COMMENCED PRODUCING Well	abandoned January 14, 1964 G FLOWING		2523 467877 849
			O PUMPING	L
ĺ		PRODUCTION DATA		
	DATE	CLEAN OIL GRAVITY		

	BALS. PER DAY	CLEAN OIL	INCL. EMULSION	GAS	TUBING	CASING
INITIAL PRODUCTION				M. C. F. PER DAY	1	PRESSURE
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PROD. AFTER			an a			
Constitution and a second se						and a second
			A DESCRIPTION OF A DESC			1

				CASING	RECORD			
BIZE OF CASING A. P. J.	TOP OF CASING	DEPTH OF SHOE	WEIGHT OF CABING	GRADE Of Casing	NEW OR USED	SEAMLESS OR LAPWELD	BACKS	DEPTH OF CEMENTING
<u>18."</u>	<u>18'</u>	53 '	conducto	γ°	Managan State State State State	UN LAPWELD	CEMENT	IF THROUGH PERFORATIONS
10-3/4"	16'	·506 ·	40.5#	J-55	nort	a de la companya de l		
The state of the s					<u>new</u>	seamless	300*	an a
	/	-						
	The second s	ine a transmission of the second s	Manana ing kanang k	n an	an a		an open and the second s	
		NAMES OF TAXABLE PARTY.	·			-		

*See hi	story		CEMEN'	TING OR	OTHER SHUT OFF REC	708D
SIZE OF CASING	DEPTH LANDED	DEPTH CEMENTED	HOLE	NO. SACKS	KIND OF CEMENT	SCRD
10-3/4"	506'	5061	15"	300*	class "A"	RESULT OF TEST
Contraction of the Second Second Second	and the subscript of the				CLOBD A	1000 psi, 0.K.
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	ALADAMIN CONTRACT AND			and the second state of th	an na hana an ann an ann an ann an ann an	

CONTRACTOR DE LA CONTRA			PERFORATIO	RFORATION RECORD				
BIZE OF CASING	FROM	TO	SIZE OF PERFORATIONS	NUMBER				
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PRESENT CONDITION OF WELL AS OF:

March 12, 1964 DATE

s,

RICHFIELD OIL CORPORATION

District Development Engineer

BY.

DIVISION OF OIL AND GAS RECEIVED

gas Lift

FORM 1418 500 7-59 PRTD. IN U.S.A.

STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

REPORT OF WELL ABANDONMENT

Coali	ngaCalifornia
April 1	29 1964

G

Mr. J P Shea	
P O Box 147	n fan de seu an fan de fan
Bakersfield California	
Agent for RICHFIELD OIL CORPO	RATION

DEAR SIR:

~ ~

Your report of abandonment of Well No. "Roberts" 1	
Sec. <u>33</u> , T. <u>14</u> S., R. <u>13</u> E., <u>M.</u> D.B. & M.,	
	field,
Fresno County, dated March 12, 1964	has been
examined in conjunction with records filed in this office.	

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have been fulfilled.

Blanket Bond FIHief Company LA oc: Company Bakersfield Conservation Committee

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

C. H. Courrent Deputy Supervisor Βy.

79185 1-63 6M SPO

May 10, 1971

Mr. R. O. Pollard Atlantic Richfield Company 4121 South "H" Street Bakersfield, California 93302

Dear Sir:

With reference to your abandoned well No. "Roberts" 1, Sec. 33, T. 14 S., R. 13 E., M.D.B.& M., Fresno County, this office is desirous of obtaining the identity of the various formations penetrated in drilling to the total depth of 8,772 feet.

It will be greatly appreciated if you will furnish the depths to the tops of the various formations from Kreyenhagen through Panoche.

Thank you for your assistance.

Yours truly

C.H. Corum

C. H. CORWIN Deputy Supervisor

CHC:fd

AtlanticRichfieldCompany

North Arr an Producing Division California strict Post Office Box 147 Reference of the Solution of Solution of the Solution of

W. R. Scheidecker District Geologist



May 13, 1971

Mr. C. H. Corwin Division of Oil and Gas P. O. Box 616 Coalinga, California 93212

Dear Sir:

You requested information on the Atlantic Richfield "Roberts" #1 in Section 33, T. 14 S., R. 13 E., M.D. B.&M., Fresno County. The following tops were obtained from our files.

Top Kreyenhagen	4020
Top "Domengine"	4968
Base Domengine	5000
Top Dos Palos	5400
Top Panoche	5400 ?

Hope this data can be of some value to you. Yours very truly.

W. R. Dehnduh

mm

cc: Mr. R. O. Pollard

MAY 1 - 1971 CONDIER, SUCCEMENT

LOG AND HISTORY Roberts #1 Section 33, T. 14 S., R. 13 E., M.D.B.&M. Drilled by: Drilling and Exploration Company

December 22, 1963 Spudded in at 7:30 p.m. on December 22, 1963. Drilled 15" hole 0-506'.

0' - 506' Gravel and clay

December 23, 1963

10-3/4" casing cemented at 506': Ran 12 joints, 489.94' net, of 10-3/4", 40.5#, range 3, J-55, 8-round, seamless, ST/C casing and cemented at 506' with 150 sacks of class "A" cement premixed with 4% gel and treated with 2% calcium chloride followed by 150 sacks of neat class "A" cement treated with 2% calcium chloride. Mixing time 14 minutes. Displaced with 256 c.f. mud in 10 minutes. Cement in place at 10:30 a.m. on December 23, 1963. Used one bottom wood plug and one top rubber plug. Bumped plug with 500 psi and had small amount of cement returns to surface. Worked casing 10' from 496-506' for thirty minutes before and during the cementing operations. By B. J. Service, Inc. One power truck. Landed casing. Installed blowout prevention equipment. Tested C.S.O., pipe rams and hydril with 1000 psi for 15 minutes each, drilled 9-7/8" hole to 9-7/8" at 506'. Drilled out cement, baffle collar and shoe and trilled 9-7/8" hole 506-1413'. Reduced 9-7/8" hole to 8-3/4" at 1413'. Drilled 8-3/4" hole

506' 1413' 2778' 3757' 4980' 5265' 5984' 6824' 7266'	163 69 69 69 69 69 69 80	1413' 2778' 3757' 4980' 5265' 5984' 6824' 7266' 7388'	Sand, clay and conglomerate Red mudstone and siltstone Sandy mudstone and siltstone Shale Shale and clay Sand and shale Shale Sand and shale Shale
--	---	---	--

January 5, 1964

Ran induction electric survey and recorded interval 7388-506', drilled depth 7388'. Ran sonic-caliper log and recorded interval 7382-4800'. Drilled 8-3/4" hole 7388-8037'.

7386' - 8037' Sand and shale

January 7, 1964

Left two cones off Bit #16 in the hole at 8037'. Cored 8-1/2" hole for junk 8037-8039' with three junk baskets and recovered both cones. <u>Opened 8-1/2" hole to 8-3/4" 8037-8039'</u> and drilled 8-3/4" hole 8039-8772', the total depth reached January 12, 1964.

80371	к.н	80391	On junk
80391	pir	82501	Shale and sand
8250 '		8258 '	Shale
82581		84691	Sand
82691	6.0	8772'	Sand and shale

January 12, 1964

Ran induction electric survey, checked bottom 7' low at 8779' and recorded interval 8778-7388', drilled depth 8772'. Ran sonic-caliper log, checked bottom 10' low at 8782' and recorded interval 8782-7382'. Ran modified continuous dipmeter. Took sidewall samples in the interval 4967-8736'. Reran standard continuous dipmeter. LOG AND HISTORY Roberts #1 Section 33, T. 14 S., R. 13 E., M.D.B.&M. Drilled by: Drilling and Exploration Company

January 12, 1964 (continued)

Sidewall Samples

All sands appear to be 50%+ quartz, 40% + feldspar

- 4967' 1 3/4" sand, light gray, fine-very fine grained, soft, well sorted, subangular, excellent permeability, 5% mafic, NSF, weak musty odor.
- 4971' 1 3/4" sand, light gray, fine-very fine grained, slightly silty, poorly sorted, soft, angular to subangular, fair permeability, NSF, weak musty odor.
- 6900' 1 3/4" sand, light gray, fine-very fine grained, silty, poorly sorted, firm, fair permeability, 5% mafic, NSOF.
- 6903' 1 3/4" sand, light gray, fine grained, slightly silty, firm, fair permeability, 5% mafic, NSOF.
- 6907' 1 3/4" sand, light gray, fine-very fine grained, silty, poorly sorted, firm, fair-poor permeability, 5% mafic, sub-parallel alignment of mica in bedding plane, NSOF.
- 6915' 1 3/4" sand, light gray, fine-very fine grained, silty, firm, fair permeability, 10% mafic, mica oriented as above, NSOF.
- 6922' 1 3/4" sand, light gray, fine-very fine grained, silty, firm, fair permeability, 5% mafic, NSOFC.
- 7107' 1 3/4" sand, light gray, fine-very fine grained, silty, poorly sorted, firm, fair-poor permeability, 5% mafic, NSOF.
- 7110' 1 3/4" sand, light gray, same as last above, 5-10% mafic, 1% mineral fluorescence, NSO.
- 7118' 1 1/2" sand, light gray, fine-very fine grained, some medium grains, silty, poorly sorted, firm, poor permeability, 10% mafic, NSOF.
- 7715' 1 1/2" clay shale, brown, slightly silty, firm, NSOCF.
- 7720' 1 3/4" clay shale, same as last above.
- 7733' 11/4" sand, light gray, fine-very fine grained, silty, poorly sorted, angular-subangular, firm, poor permeability, 10% mafic, NSCF, slight sour petroleum (?) odor.
- 7737' 1 3/4" sand, light gray, fine-very fine grained, silty, firm, poor permeability, 5-10% mafic, NSOF.
- 7746' l l/2" sand, light gray, fine-very fine grained, 20% clayey-silt matrix, firm, poor permeability, 10% mafic, NSOF.

Roberts Section	33. T. 14	S., R. 13 E., M.D.B.&M. ling and Exploration Company	Page 4
January	12, 1964	(continued)	
Sidewall	Samples	(continued)	
7750 '	1 1/4"	sand, same as 7746'.	
80921	1 1/4"	sand, light gray, fine-very fine, clayey and silty, poorly s firm, poor permeability, 10% mafic, NSOF.	orted,
80961	1 1/4"	sand, same as last above.	
8121'	1 1/4"	sand, light gray, very fine grained, clayey and silty, angula subangular, firm, poor permeability, 20% mafic, green and ora	ar- ange
8125 '	1 1/4"	sand, same as last above.	
8688 '	1 1/4"	sand, light gray, fine-very fine grained, clayey and silty, f poor permeability, 30% mafic, micaceous, NSOF.	lirm,
8690 1	1 1/4"	sand, same as last above, mica subparallel to bedding plane.	
87351	1 1/4"	sand, light gray, fine-very fine grained, clayey and sility, poor permeability, 30% mafic, some orange and green grains, m NSOF.	firm, icaceous,
87361		NT -	

8736' No recovery.

January 13, 1964

Plugged 1845-1692': With open end 4-1/2" drill pipe at 1845', pumped in 75 sacks of class "A" cement treated with 3% calcium chloride and displaced with 127 c.f. of mud. Cement in place at 5:08 p.m. on January 13, 1964. Used one power truck. Ran in with open end 4-1/2" drill pipe and located top of cement plug at 1692'. Location of plug witnessed and approved by Division of Oil and Gas. Plugged 550-485': With open end 4-1/2" drill pipe at 550', pumped in 50 sacks of class "A" cement treated with 3% calcium chloride and displaced with 35 c.f. of mud. Cement in place at 9:45 p.m. on January 13, 1964. Used one power truck. Division of Oil and Gas approved placing of shoe plug at 550'. Ran in with open end 4-1/2" drill pipe and located top of cement plug at 485'.

January 14, 1964

<u>Plugged 19-29':</u> Put 10' cement plug 19-29' in 10-3/4" casing. Released rig and crew at 10:00 a.m. on January 14, 1964. Well abandoned on January 14, 1964. Welded steel plate on surface casing on March 12, 1964.

FORM 109-D

T D Olema

CALIFORNIA RESOURCES AGENCY DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T_564-17

Mr. V & Maidea	
P O Box 147	•
Bakersfield California	<u>Coalinga</u> Calif.
Agent for RICHFIELD OIL COMPORATION	Jamuary 14, 1964
DEAR SIR:	
Operations at well No. "Roberts" 1 on January 13, 1964. Mr. F. L. from \$\$00 p.m. to 10:00 p.m. There were also	County, were witnessed
Present condition of well: $10-3/4"$ com. $506"$. 1692 and $550"-4,29"$.	T.D. 6772'. Plugged with coment 1845'-
The operations were performed for the purpose of plug	ging the hole in the process of abandonment.
M. Jackson	and particular of application.

- reported:
- 1. An 8-3/4" hole was drilled from 506' to 8772'.
- 2. No cil or gas shows were encountered. 3.
- On January 13, 1964, 75 sacks of cement was purped into the hole through $4\frac{1}{2}$ " drill pipe hanging at 1845', filling to 1698'.

THE INSPECTOR MOTED:

- 1.
- The cement plug at 1692' supported two tons of the weight of the drill pipe. On January 13, 1964, 50 sacks of cement was pumped into the hole through $4\frac{1}{2}^{12}$ drill pipe hanging at 550', calculated to fill to 429'. 2.

THE CEMENTING OPERATIONS ARE APPROVED.

Filter

ce: Company LA Company Bakerofield

> E. R. MURRAY-AARON State Oil and Gas

ouven Bv

Deputy

STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 564-19

Mr. J.F. Shee	
P 0 Box 147	
	Coalinga Calif
Agent for RICHFIELD OIL CORPORATION	January 14 1964
Dear Sir:	
Your	

Section 39 m 140	proposal	to	abandon		\$ Som a in	
	T/ and sector & S.Y.W.	EFAD o se	Albert fall and per und displays	Well	No. "Roberts"	1
dated wasse 13. Take	÷			Field.	to MARADIN AND IN .	
dated water the left with	received 982.	the West	• •		<u>6 A 90110</u>	C

14, 1964, has been examined in conjunction with records filed in this office. Present conditions as shown by the records and the proposal are as follows: THE NOTICE STATES:

- "THE PRESENT CONDITION OF THE WELL IS: - L.
 - Total Depths 8778* 2.
 - Complete casing record, including plugs: 35' - 18", 59# conductor set at 53'.
 - 490' 10-3/4", 40.5#, J-55 cemented at 506'. 3. Last Produced -
 - 4.
 - Oil or Gas showings and results of tests: None 5.
 - Formation at bottom: Panoche-Oretaceous 6.
 - Base of fresh water samls: 1750 "

PROPOSAL:

FORM 111

- "THE PROPOSED WORK IS (Confirming telephone conversation, Shea Corwin, 1-13-64) 1. Plug 1800-1585' with 75 sacks of class "A" cement. Top of plug to be located and approved by Division of Cil and Gas.
 - 2. Plug 550-443't with 50 sacks of class "A" comment. Location of shoe plug to be witnessed by Richfield Oil Corporation representative.
 - Place 10' surface plug and abandon hole and location." 3.

DECISION:

THE PROPOSAL IS APPROVED.

Blanket Bond CHOtef 661 Company LA Company Bakersfield

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Deputy

FORM 108. 60287 3-62 10M (2) SPO

TEmple 1-1600

STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

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

Bakersfield. Calif. January 1964 DIVISION OF OIL AND GAS In compliance with Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No.____ Roberts #1 ____, Sec. 33 _____ T. 14 S. ._____B. & M., ____ Area **R**. 13 E. Cheney Ranch Fresno County, Field commencing work on January 13, **_19**_⁶⁴ THE PRESENT CONDITION OF THE WELL IS: Additional Data for Dry Hole 1. Total Depth: 8772' 4. Oil or Gas showings and results of tests: 2. Complete casing record, including plugs: None 35' - 18", 59# conductor set at 53'. 490' - 10-3/4", 40.5#, J-55 cemented at 5061 5. Stratigraphic markers and depths: 3. Last Produced_ 6. Formation at bottom: Panoche-Cretaceous (Date) (Oil, B/D) (Water, B/D) 7. Base of fresh water sands: 1750 THE PROPOSED WORK IS (Confirming telephone conversation, Shea - Corwin, 1-13-64) Plug 1800-1585'+ with 75 sacks of class "A" cement. Top of plug to be 1. located and approved by Division of Oil and Gas. Plug 550-443'+ with 50 sacks of class "A" cement. Location of shoe plug to 2. be witnessed by Richfield Oil Corporation representative. Place 10' surface plug and abandon hole and location. 3. Reference to per P. O. Box 147, Bakersfield, Calif. RICHFIELD OIL CORPORATION (Address)

(Telephone No.) Address One Copy of Notice to Division of Oil and Gas in District Where Well is Located

(Name of Operator)

Form 136A

MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION (Proposed Well Operations)

Operator Richard Ol Corp	Well No.	Coberts" /	
personal Kanch Ayea	Sec	145 R. 13 E	M.D. BSM
A telephone conversation was held, concer	ning above wel	1, with Mr. <u></u>	<u>e stea</u>
for above operato	r <u> </u>	1963	at 11:15 A M.
Details of the conversation were as follo	ws:		
Total depth <u>3800'</u> Casing record 10 34" new 504	Plugs		
Casing record 10 3/4" cem 506		Na - Alta A Mangarangkaran (ng mga Pan-raka), ang di Cangdong Pan-karan (ng mga Pananggo	ŧĸĸĸĊĸĸĸĸĊĸĊĸŎŦŎĸŎŗŎĬŎĸĸŦĊĬĬĸŎĸŎŎŎŎĸŎŎŎŎĸŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎ
		Sa na an Alain an An An Anna an Anna Anna Anna Anna	a gi kaya ka manana ka
Oil or gas showings None per E-log	and schewald	samples	an an ann an an ann an an an an an an an
Results of tests			
	ning yang men digi tikin ang mining karafyay yang na sa na	na Mille Mayor (Sama Sanatana un vertra de la gina angli making un panjakana na sanatana angli	₩₩2.8%,0%10%19.4%20%19.4%20%19.4%20%19.4%20%20%20%20%20%20%20%20%20%20%20%20%20%
Stratigraphic markers	n maar kana ka ka ka maana ka		
	n an an Anna an		
Geologic age at bottom <u>Cretaceous</u>	Rase	of froch retain	an terre and a second
Operator proposes the following work:		or mesh water	
Abandon by plugging 1800-16	an a		
······································			*****
1. 10'-	\sim $^{\prime}$	9998	ana a ya aya na 1999 na a ang barang bara
		nannaga Calan mu dagha yangi 14 mer - Ganda San Alaki Milangi ng Ingan Dalam Salar Ang	ann a dha ann an Ann
Additional requirements outlined:	ar y saya an an an Shine an Anton ya An	allen gener og det en	ĸĸĴġĸĸĊĸŗĸĸĬġġĊĸĸĸġĊĸġŗĸġĸġĊĸĬĸĸĸĬĿĸĬĊĸġĊĸġĸĸġĸĸġĬĸĸġĬĸ
Test of W.S.O. to be witnessed by D.O.G. at	. r		
Plugs to be located by D.O.G. at 1600	Rat on a	by operator at	an a na an
Notice to be filed immediately () Yes () Not	rator at 400	
Other data) Not necessa	ry	
	₽₽~~\$1600000000000000000000000000000000000	n, and get, that have also all affer to disk - I when a sufficient grammer to fing, whereas	na mana any amin' ami
	Signed)		مور است کور است کور است کو است کو این اور این و این
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FORM 109-D

CALIFORNIA RESOURCES AGENCY DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 563-386

Mr. J F Shea	
P 0 Box 147	
Bakersfield California	Coalinga Calif.
Agent for RICHFIELD OIL CORPORATION	December 30, 1963
DEAR SIR:	
Operations at well No	, Sec. 33 , T. 148 , R. 138 , M D B & M.
on December 26, 1963 Mr. F. L.	Steano County, were witnessed
from 5:00 p.m. to 5130 p.m. There were also	present M. M. Chistman, Drilling Foreman
Present condition of well: 10-3/4" cem. 506".	T.D. 2750' (drilling)
The operations were performed for the purpose of inspectation.	acting Blow-out Prevention Equipment and
Mr. repor	ted:

THE BLOW-OUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

FLH:fd cc: Company LA Company Bakersfield

E. R. MU	RRAY-AARON	
State Oil a	ad Gas Suspervisor	
By	C. H. Corwin	Deputy
115	10	Deputy

Sauc			0	Contraction of the Contraction o
·	ny <u>Ruddala</u>	<u>. 92 Salparaz</u>	Date	19
era	ations at well No	Field Free	Sec. <u>33</u> T	. <u>145</u> R. <u>J3F</u> MD B&M County, were witnessed
		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
ese	ent from <u>SPM</u>	to There	was also pres	ent <u>M. M. C.Listma</u>
Dr.	and the second			
ese	ent condition of well	: 10 3/4" cem. 50	<u>6' T-D. 2</u>	150 (drilling)
era	tions were performed	for purpose of inspect	ing BOP equipm	ent and installation.
•	Chistman	reported:		
~* ~*	Cement returned/dia An additional casing from the sur The Sharp pr and the Hydreff pressure of 1200 ps for minutes, res	si for 15 minutes,	t. of cement. rface. t was placed and <u>Shaff</u> were each te psi for	cound the posted with a closed-in minutes, andpst
E E	NGINEER NOTED that th	he well was equipped wit	h the followir	ng BOP equipment:
	closing around the	manually and hydraul well with the drill pip <u>4</u> blow-out prevent t of the hole, and for	e/tubing out o WDing. er for closing closing around	of the hole, and for f in the well with the the the f
.*	A closing in the well	manually and hydr with the drill pipe/tub	aulically oper ing out of the	ated control gate for hole.
	A	manually and hydr	aulically oper	ated control gate for
•	crosting around the	drill pipe/t	ubing.	
.* .*	A	" drill pipe/t blow-out preventer	for closing a	round the
,	Adrill pipe/tubing.	blow-out preventer blow-out preventer above equipment were l	for closing a	
, = , • , •	A drill pipe/tubing. The controls for the the derrick floor. A 2 " mud f the 10 3/4 " cas	blow-out preventer	for closing a ocated outside high-p: ipment.	the derrick and on ressure stopcock into

3.102

THE BLOW-OUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 563-503

Mr. J. P. Shea	
P O Box 147	
Bakersfield California	Costines
Agent for RIGHTELD OTT PRODUCTATE	December 19 1963
Oche 101	
DEAR SIR:	

Your

FORM 111

	Vell No. "Roberts" 1
B. & M. Fresno	

1963, has been examined in conjunction with records filed in this office. Present conditions as shown by the records and the proposal are as follows:

"Legal description of mineral-right lease, consisting of 160 acres, is as follows: The Roberts Lease in Section 33 includes the northwest quarter of the Section. Do mineral and surface leases coincide? Yes

Location of Well: 1000 feet due south and 330 feet due east at right angles to said line from the Northwest corner of section 33 Elevation of ground above sea level 370 feet Topo datum.

2. Second and a second

All depth measurements taken from top of Kelly Bushing which is 13.6 feet above PROPOSAL:

Size of Casing	"PE Weight	COPOSED CASING Grade and	PROGRAM		
Inches A.P.I.		Grade and	Top	Bottom	Cementing
10-3/4"	59∉ 40.5¢	conductor	18		Depths
Intended zone of	completion:		17'	500 '+	500 +
Please designate	as "Prospect	Well"	nia die	Estimated total	depth 8000'

It is understood that if changes in this plan become necessary we are to notify DECISION:

lanket Bond

CS:fd

C (

THE PROPOSAL IS APPROVED PROVIDED THAT: 響力

- The 10-3/4" surface casing shall be cemented with sufficient cement to fill back of this casing from the shoe to the ground surface. Mud fluid of sufficient weight and proper consistency to prevent blow-outs 2.

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.

- Adequate blow-out prevention equipment shall be provided and kept ready for 4.
- In the event that additional casing is landed or comented in the well, one of
 - the following operations shall be performed for the protection of fresh water: Sufficient coment shall be used at the shoe of the casing to fill back of this casing to above the base of the fresh water sands, or
 - b. The casing shall be cemented through perforations at the base of the fresh
- This Division shall be notified: 5.
 - **a**.
 - To inspect blow-out prevention equipment prior to drilling below a depth of 1500". Before landing or cementing any casing below the 10-3/4" surface casing, b, and additional requirements will be outlined at that time. ¢.
 - To witness a test of each possible water shut-off.
- NOTE

Information on file in this office indicates that the base of the usable fresh water deposits should be encountered at a depth of approximately 1800'. E. R. MURRAY-AARON, State Oil and Gas Supervisor

Company LA Company^{50M} Bakersfield 111

Win

By

Deputy

		тн	E RESOURCES A	CALIFORNIA GENCY OF CALIFORNIA OF CONSERVATION		
019-	0603	Notice of	ON OF Intention	OIL AND to Drill New ust be filed before drill	w Well 4	
DIMETON				kersfield,	Calif. December	<u>18, 1963</u>
DIVISION OF		0				
		and the second			Code, notice is hereby g	
		and the second sec			, Sec32	
					d, <u>Fresno</u>	•
Legal description	on of minera	al-right lease, consistin	ng of]	60acres, is	as follows: The Rot	Derts
Lease in S	lection 3	33 includes the	northwes	t quarter of	the Section.	map or plat to scale)

		and map or plat to sca	ne.	properity	swer is no, attach legal d	· · · ·
		(Dir	rection)		dfeet	(Direction)
at fight angles (o sala line i	trom the <u>WOPGAN</u>	Vest		property corner of section	33
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
		sea level370_	feet	Topo		et above ground.
		sea level370_ en from top of	Kelly Bi	<u>Topo</u> Ishing Table or Kelly Bushing)	which is 13.6 fe	et above ground.
		sea level370_ en from top of	Kelly Bi	Topo	which is 13.6 fe	
All depth measur SIZE OF CASING INCHES A.P.I.	rements take	sea level370 en from top of PROPOS	feet Kelly Bi rrrick Floor, Rotary ED CASI	Topo Ishing Table or Kelly Bushing)	which is 13.6 fe	
All depth measur	weight	sea level370 en from top of (De PROPOS GRADE AND TYPE	feet Kelly Bi rrick Floor, Rotary ED CASI	Topo Ishing Table or Kelly Bushing) ING PROGRA Воттом	which is 13.6 fe	
All depth measur	weight	sea level 370 en from top of (De PROPOS GRADE AND TYPE conductor	feet Kelly Bi rrrick Floor, Rotary ED CASI TOP 181	Topo Ishing Table or Kelly Bushing) NG PROGRA Воттом 531		
All depth measur SIZE OF CASING INCHES A.P.I. 18" 10-3/4" ntended zone(s)	vements take	sea level 370 en from top of (De PROPOS GRADE AND TYPE conductor J-55	feet Kelly Bi rrrick Floor, Rotary ED CASI TOP 181	Topo ashing Table or Kelly Bushing) ING PROGRA BOTTOM 53' 500'/	-which is <u>13.6</u> for M CEMENTING DE <u>500'/</u>	PTHS
All depth measur SIZE OF CASING INCHES A.P.I. 18" 10-3/4" ntended zone (s) f completion:	vements take	sca level 370 en from top of (De PROPOS GRADE AND TYPE conductor J-55	feet Kelly Bi trick Floor, Rotary ED CASI TOP 18' 17'	Topo Ishing Table or Kelly Bushing) NG PROGRA BOTTOM 53' 500'/ 500'/		PTHS
All depth measures of casing inches a.p.i. 18" 10-3/4" ntended zone (s) f completion:	rements take weight 59# 40.5#	sca level 370 en from top of (De PROPOS GRADE AND TYPE conductor J-55	feet Kelly Bi trick Floor, Rotary ED CASI TOP 18' 17'	Topo Ishing Table or Kelly Bushing) ING PROGRA BOTTOM 53' 500' /		PTHS
All depth measur SIZE OF CASING INCHES A.P.I. 18" 10-3/4" ntended zone (s) f completion:	weight 59# 40.5# 40.5#	sea level 370 en from top of (De PROPOS GRADE AND TYPE conductor J-55 ame) Please desig	feet Kelly Bi rrick Floor, Rotary ED CASI 100 181 17'	Topo ashing Table or Kelly Bushing) NG PROGRA BOTTOM 53' 500'/ 500'/ Depth, top and bottom) "Prospect Well		РТН S
All depth measur SIZE OF CASING INCHES A.P.I. 18" 10-3/4" ntended zone (s) f completion: Ge to Change It is un	weight 59# 40.5# 40.5#	sea level 370 en from top of (De PROPOS GRADE AND TYPE conductor J-55 ame) Please designation	feet Kelly Bi rrick Floor, Rotary ED CASI 100 181 17'	Topo ashing Table or Kelly Bushing) NG PROGRA BOTTOM 53' 500'/ 500'/ Depth, top and bottom) "Prospect Well Are necessary we are	-which is <u>13.6</u> for .M CEMENTING DE <u>500'/</u> Estimated total depth [" e to notify you immedi	ртня 8000! Unit (
All depth measur SIZE OF CASING INCHES A.P.I. 18" 10-3/4" ntended zone (s) f completion: 10 10 10 10 10 10 10 10 10 10	weight 59# 40.5# 40.5#	sca level 370 en from top of (De PROPOS GRADE AND TYPE conductor J-55 Please design hat if changes in this 147	feet Kelly Bi prrick Floor, Rotary ED CASI 10 18' 17' (1 gnate as s plan becon	Topo Ishing Table or Kelly Bushing) NG PROGRA BOTTOM 53' 500' / 500' / Depth, top and bottom) "Prospect Well he necessary we are Richfi		ртня 8000!
All depth measur SIZE OF CASING INCHES A.P.I. 18" 10-3/4" ntended zone (s) f completion: 10 10 10 10 10 10 10 10 10 10	weight 59# 40.5# 4	sea level 370 en from top of (De PROPOS GRADE AND TYPE conductor J-55 ame) Please designation hat if changes in this 147 ld, California	feet Kelly Bi prrick Floor, Rotary ED CASI 10 18' 17' (1 gnate as s plan becon	Topo Ishing Table or Kelly Bushing) NG PROGRA BOTTOM 53' 500'/ Depth, top and bottom) Prospect Well Me necessary we are Richfi By	which is <u>13.6</u> for <u>CEMENTING DE</u> <u>500'/</u> Estimated total depth " e to notify you immedi <u>eld 011 Corporat</u> :	PTHS 8000! Unit is ion

Well Records for Artificial Penetration #11

Silver Creek #27X

(API No. 1920726)

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

Coalinga, California July 20, 1995

Your report of plugging and abandonment of well <u>"Silver Creek" 27X</u>, A.P.I. No. <u>019-20726</u>, Section <u>29</u>, T. <u>14</u>S, R. <u>13</u>E, M.D.B. & M., <u>Cheney Ranch Gas</u> field, <u>Fresno</u> County, dated <u>May 9, 1995</u>, received <u>May 17, 1995</u>, 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 the filing of well records.

NOTES:

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 aler (for) RICHARD F. CURTING DEPUTY SUPERVISOR

OG159

Company	CENCAL DRILLING,	LIST - RECORDS F	Well No		
API No	019-20712 20726	Sec. 29	- WELL NO.	4 G D 12	<u>" 27X</u>
ield	CHENEY RANCH GAS	County	_/ +•	FRESNO	<u> </u>
1	Oil Gas				
Gas-Ope	en to Oil Zone		to an and the second se	Complet	A DESCRIPTION OF A DESC
	Drilling	-		Recomple	eted
l	Dry Hole			Idle	
	Gas Storage			Abandon	
	Observation	CO ₂ Injecti			ed BLM(date)
Wate	erflood Source	LPG Injecti		POO	DL Abd
	ENGINEER'S CHECK LI	0			
L. Summary	History, Core &	<u>ST</u>	-1	CLERICAL CHE	CK LIST
Sidewal	l Records			n OGD121	
2. Electri	C Logs		2. FOrm	n OGD159(Final Lett	ter) <u>/</u>
. Operato	or's Name		4. Form	1 OGD150B (Peloago	ter-BLM) of Bond)
	ire		5. P.I.	Release	
. Well De	SIGNALION_		6. EDP	-\ <i>j</i>	
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. Plugs	Record		ļ		
. Surface	Inspection OK	RH 6/15/0C	ľ	Date/	_/
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RECORDS	COMPLETE RH 5	126 195			
L		166113			
PROVED	RH 6/161			10	
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T APPROVED)				
Reason:	august 1 3-4			and a second	
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			Date El		ा महाई
					needed records were received)
				. 1/	bluder
				ар воок <u>ж</u> w 5-7	Z RH SWH

SUBMIT IN DUPLICATE

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

History of Oil or Gas Well

1	flistory of Oil or Gas Well
-	Cencal Drilling, INC. Cheney Ranch Gas
	Cencal Drilling, INC. Operator Cen Cal Drilling, Inc. Well Silver Creek " 27x Sec 29 T148 P 130 MD P 6 M
	Well Silver Creek " 27x A.P.I. No. 019-20726 Name Clofes W Case R 13e, MD B. & M.
	A.P.I. No. 019-20726 Name Clofas W. Case Title
	A.P.I. No. 019-20726 Name Clofas W. Case Title (Person submitting report) (President, Secretary or Agent)
	Signature Clofas W. Case
	7010 W. Cerini Riverdale, CA 93656 (Address) (Telephone Number)
	History must be complete in all detail. Heathic form to more the
	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 heiler tests and be size.
Date	of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.
11-9-94	MTRU Remarked Hand Days Hill Days
	M.I.R.U. Removed Hyd. Pump Unit. Bled off Tbg PSI 250 unseated pump
	Laid polish rod down installed rod B.O.P. hook up casing started bleading
	csg off. well started flowing on tbg. Hooked up to storage tanks, well
	went to 500 PSI. Bled gas off to 200 PSI. Started to get water well died laid 106 3/4" rods & 114 5/8" rods down. Closed well in.
11-28-94	M.I.R.U.
12-9-94	Bled gas off tbg & csg. Removed xmas tree. Installed B.O.P. Hooked up vac. truck to tbg. pumped 80 bbls down tbg. Killed well. Pulled donut loose broke off & laid down pulled 1 std. tbg. tbg. hung up. worked free P.O.H. Laid mandrel down. R.I.H. w/tbg. measured picked up 11 jts.
12-10-94	Opened up well. Moved in circ. pump. Rigged up cleaned well out from 7248' - 7280'. Rigged up foam air w/ tbg @ 7280' mixed & displaced 53 cu.ft. class G cement displaced w/ 147 cu.ft. formation H20 cement in place @ 12:15 pm Pulled out 15 stds. tbg.
12-14-94	Opened up well lowered tbg. Tag top of cement @ 6680' changed well over to mud 72# set 15 stds tbg in derrick laid tbg. down. Rigged up KFE shot cavit shot @ 1605' - 1595' witness by D.o.G.
12-15-94	Ran 51 jts. in hole 1601' rigged up to circ. cud could not cir. mud went in to formation rigged up foam air mixed & displaced 35 cu.ft class G cement w/724#silica flour 3%cacl2 displaced w/16cu.ft. mud cement in place. Pulled tbg. out of hole W.O.C. tag cement top @ 1508'. Laid 51 jts. 2 3/8" tbg. down.
12-19-94	Cut off csg 6' below surface, Mixed 8 sacks of cement cement from 30' - 5' inside & outside.
	RECIVED
	MAY 1 7 1995

DIVISION OF OIL & GAS COALINGA

OG103 (2/92/DWRR/5M)

AESOURCES 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 11006 Bakersfield CA 93309

Coalinga, California January 3, 1995

Your operations at well <u>"Silver Creek" 27X</u> API No. <u>019-20726</u>, Sec. <u>24</u>, T. <u>14</u> S., R. <u>13</u> E., M.D.B.&M., <u>Cheney Ranch Gas</u> Field, in <u>Fresno</u> County were witnessed on <u>December 29, 1994</u>. <u>G. Philbrick</u>, representative of the supervisor, was present from <u>1000</u> to <u>1005</u>. There were also present <u>Clofas Case w/C. Case Co.</u>

Present condition of well: 9" cem. 1710'; 4 1/2" cem. 7332'; perf. 7250'-7235', 6984'-6966' & 6876' WSO; TD. 7460'; cavity shot 1607'; plugged w/cem. 7332'-7286', 7280'-6686', 1601'-1510' & 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. TATE OIL AND GAS SUPERVISOR RICHARD F. CURTIN Deputy Supervisor

•	⁹				Cemer	SION OF (nting/Plu	ugging	Memo		11		4
pera	ator_	enc	al Prillin 0726	9, IN	IC.	allation of the same spectrum and stranger subscriptions	Well	No. <u>" S</u>	Iver Cre	ek 27X		
f I9 I alc	lo. 0	19-2	0726 Ranch Ga	¢ C	ounty F	NOSHO	Sec	21	, T. 145	, R. 13E	<u>, no</u>	B&M
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le re	e were	also	present 🚄	101-195	Con al 7 S. C.	here.	La Mand	<u> </u>				
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Dof. NoNe Cartender: C. Case INC

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

No. P<u>593-420</u> Field Code 134 Area Code__ 00 New Pool Code____ abd Old Pool Code 05

PERMIT TO CONDUCT WELL OPERATIONS

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

A

Coalinga, California December 10, 1993

Surcisiteta CA 93309	
Your proposal to <u>abandon</u> well "Silver Creek A.P.I. No. <u>019-20726</u> , Section <u>29</u> , T. <u>14</u> S, R. <u>13</u> E, M.D <u>Cheney Ranch</u> field, <u>area, U. cretaceous</u> <u>Fresno</u> County, dated <u>12/6/93</u> , received <u>12/8/93</u> has been in conjunction with records filed in this office.	<u>27x</u> , .B. & M., pool, examined
THE PROPOSAL IS APPROVED.	
 Adequate blowout prevention equipment shall be installed and main operating condition at all times. 	intained
 All portions of the well not plugged with cement are filled wi mud fluid having a minimum density of 72 lbs./cu. ft. and mini shear strength (10 min.) of 20 lbs./100 sg. ft 	
 The surface plug is placed from at least <u>30'</u> below surface. THIS DIVISION GUILT and the surface of the surface of	
4. THIS DIVISION SHALL BE NOTIFIED:	
a. TO WITNESS the location and hardness of the cement plug from to 6776'.	om 72861
b. TO WITNESS the mudding of the well.	
c. TO WITNESS a cavity shot at 1600'.	
d. TO WITNESS the location and hardness of the cement plug fro to 1500'.	om 16001
e. TO WITNESS the location and hardness of the surface plug af casing has been cut 5' below ground.	ter the
f. When the well site has been restored to a condition that will	1] nage
GWM/jp Un GWM/jp WILLIAM F CUEDADD	
Engineer <u>Glenn Muggelberg</u>	SOR
Phone (209) 935-2941	etin
A copy of this nermit at the Deputy Supervisor	

s 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

11-03-93 03:16PM FROM DOG COALINGA

STATE OF CALIFORNIA DEPARTMENT OF CONSERVATION r rinesissee DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

	ſ	FOR	DIVISION	USE ON	
		CARDS	BOND		RMS
DIVISION OF OIL AND GAS	-		B		000721
In compliance with Section 3229, Division 3, Public Reso	urces Code, notice i	hereby	given that i	t is our i	ntentio
to abandon well _ Selver Creek" 27x	-			10- 7	000
Sec. 29, T. 145, R. 13E, MN B. & M., ChENE.	Ranch Field	I. Fr	eswo		County
commencing work on January, 19-2	74	-			oounty
The present condition of the well is:	Additional d	lata for d	lry hole (sł	now dept	hs):
1. Total depth 7460	5. Oil or gas sł			-	·
2. Complete casing record, including plugs and perforations (present hole)					
See Atlached Detail	6. Stratigraphic	6. Stratigraphic markers			
3. Last produced (Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)					
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D Or	7. Formation a	nd age af	t total dept	h	
4. Last injected (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure					
 9. Is this a critical well according to the definition on the The proposed work is as follows: 1) Equilize Plug #1 7286 - 6 2) Cavily shoot @1600' Equilities 3) Plug #3 25' & surface is well on steel cap. 	776'		Yes	x 500 w-6 IVE!	-
			DECO	8 1993	
			DIVISION OF	OIL & GA	S
It is understood that if changes in this plan become	necessary we are	to notifu	Vou imme	diately	
Address 1400 Easton Dr. #135A	Cencal	Dule	, Ins		
Bakers Sich (Street) (City) (State) (Zia) B	KTO	(Name of (Operator)	<i></i>	

OG108 (8/87/DWRR/5M)

Telephone Number _

323

(805) (Area Code)

(Zip)

(Number)

(Prip/Dame)

(Signature)

93

<u>12</u> (Date)

420

STATE OF CALIFORNIA—THE RESOUR CALIFORNIA

PETE WILSON, Governor

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

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.

Sincerely

hie, Daamilo

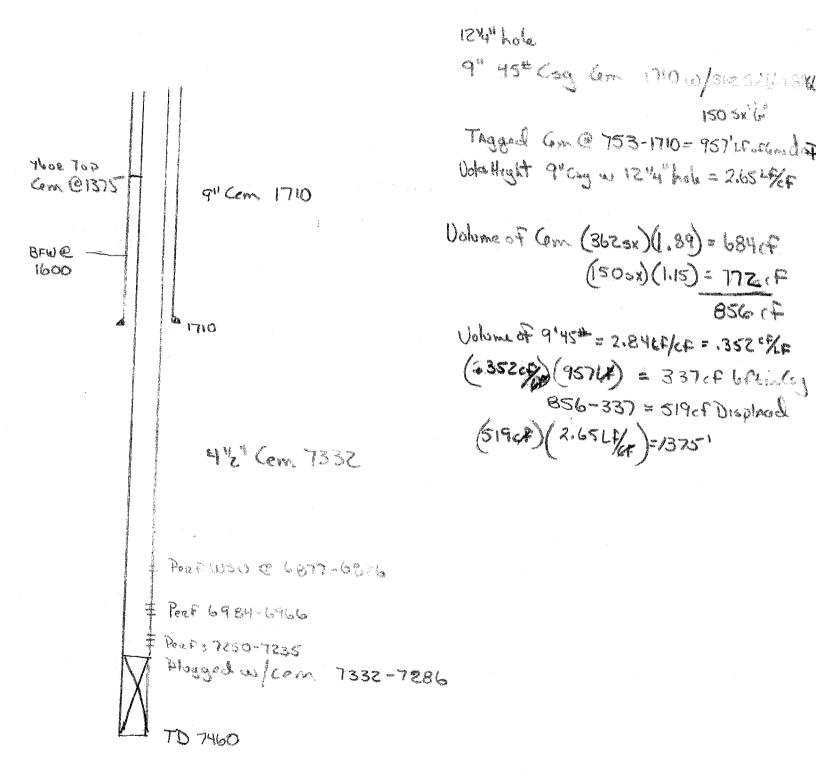
(FOR) Richard F. Curtin District Deputy

RFC/kt

Enclosure



Channey RANch Lins Cancal Drailing, Inc Silve Gr le 27



SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

	OPERATOR E. A. Bender, Operator FIELD Cheney Ranch Ctops
	Well No. "Silver Creek" 27X , Sec. 29 , T. 14S , R. 13E , M. D. B. & M.
	Date March 27, 1975, 19 Signed M. J. Franch
	(Address) (Address) (Address) (Telephone Number)
Date	History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.
2-8-74	Moved in equipment and rigged up to pull tubing. Killed well with salt water using Halliburton pumping equipment.
3-11-74	Upstalled B.O.E., pulled and laid down 29 joints of 2-3/8" tubing. Stood 205 joints of 2-3/8" tubing in derrick. Rigged up Welex and perforated interval 6966-6984 with two $\frac{1}{2}$ " holes per foot. Perforations were shot using casing gun. Picked up 27 joints of 1" tubing and reran 205 joints of 2-3/8" tubing
-12-74	Swabbed well from 500' to 6200'. Closed in well and moved out equipment.
	Tubing pressure 2300#. Casing pressure 2560#.
1 1	

82602-705 3-72 20M (I) OSP

MUNGER'S HISTORY RECORD

Зв Т	$\begin{array}{c} \boldsymbol{u}_{ij} & = \boldsymbol{v}_{ij} \cdot \boldsymbol{v}_{ij}$						
				MUNGER'	and the second	***	
29-14S-				HISTORY REC	ORD	sec. 29-145-13E	
â							
OPERATOR	E. A.	BENDE	R, OPR.	LEASE	Silver Creek"	WELL NO. 27X-29	
FIELD AREA MAP W-33	Cheney			COUNTY	Fresno	ELEV. 388 KB SPUD. AM, 12/7/72 COMP. 6/8/73	
LOCATION	Fr SW	cor .S	ec., 660'N 990			сомр. 678775 RSM. RECOMP.	
DATE OF IFFIII	6/0	23/73				ABAND. T. D. 7460	
A.P.I. 019	-20726		CLASSIFICATION:	Gas		PLUG	
CASING RECO	RD	******	*****	***	**************	*****	170002
SIZE	DEPTH	1				MARKERS	
9	1700	cmrd			6 (9)		11133
4 ½	7332	cmtd	. perfs. 7235	-50'			1000 a
2-7/8	7194					in the second seco	
2-110	/194	Hung			변화한 것 같		
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***	****		7235-501	
DATE	DEP	TH	*****	****	************************	******	in the second
12/6/72		1	Moving in equ	ipment. CONTRA	ACTOR Gary D	rlg.Co. D-3	
12/7/72		130	Drilling.	orala			
12/8/72		010	Drilling. Location, D.C	GEOLO	5151		
12/11/7		050		cmtd. at 170	01.		
12/12/7	· · · · · · · · · · · · · · · · · · ·	077	Drilling.			75001	
12/13/7		150 071	Drilling. Drilling.	PROPOS	SED DEPTH	7500'	
12/15/7		468	Drilling.				
12/18/7		851	Drilling.			and a little East of	
12/19/7		145	Drilling.			Oper.'s "Silver Creek"	
12/20/7		460	Total Depth. Ran I-ES, Sor			7394', completed 10/12 ated 2000 MCF thru 12/6	
Sheef hasher f	4		and took Side			hut In 2600¥. Interval	
			Samples.			Moreno Sand).	
			Standing ceme		Dall Datada	- Co boldo o L Intoro	er alp
12/28/7	2	1	4½" at 7332". Changed to sa		in the play.	um Co. holds a 🖞 Intere	31
12/29/7			Ran Neutron L				
		1	7256'. Perfo		가는 것은 바람이 있었다. 이 아이는 아이는 아이는 아이는 아이는 아이는 아이는 아이는 아이는 아이		
	1		6875-761, WSC	235-45 ' . 2-7/	A 11		
		1		1+ 7194', with			
1/3/73			Swabbed in.	Blowing well.			
1/9/73			Idle account		in productio	n oquilomont	
3/12/73 3/14/73				73. Moved in	(1) A. (1) A. (2) A.		
3/15/73			with salt wat	ter. Pulled t	ubing.		
3/19/73				shut off wate			
3/21/73 6/6/73	he ∎ i Maria Ara Sil∎e e e i i i i i Agi∎e e i i i i i i			n pressure bu		ause of weather.	
6/18/73				F/D, 600∦ T.F		9	
					· EN.K		
	CCL Strate CLL Strate CLL Strates				Un.		
	, i - 21.		n an				

FORM 107 RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS P.574.32 Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well This notice must be given before work begins; one copy only Jakapeld 6rt Feb DIVISION OF OIL AND GAS 1974 In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of <u>deepening</u>, redrilling, <u>plugging</u> or altering casing at Well No. F.A. Bender oper. Vell 2-1x-24 (cross out unnecessary words) , Sec. 24 , T. 45 , R. 13 E, MD B. & M. Well Cheney Ken Field, Fresho (ounly The present condition of the well is as follows: County. 1. Total depth. 4460 - SP | 2. Complete casing record, including plugs: q" Ast Cemented at 1710 41/2 10.9 + 1.5" Cemented at 7332. Bridge plug m A'/2" at 7280. Respirations: - $4.-32^{\circ}$ holes / f WSOK & 6676-72 Glici Squeece Jub (2.-32 holes / f 7229 - (Squeece Jed)3. Last produced. 4.-32 holes / f 7235 - 7245 Hor (Date) 4.-32 holes / f 7245 - 7250 The proposed work is as follows: 13 (OII, B/D) (Water, B/D) (Gas, Met/D) 50 / 50 Kin weil with Satt Water, pull tubrig, Install B.O.E and Perforale 41/2" Codrig 6966 - 6784. Revun tubrig Install Xmad Free and return To production Cod 1 : 13/4 P.O. Pay 52 Balersfield, (aly 13302 MARKED CONTRACT E.A. Bender Operator By C.F. (Name of Operator) By C.F. (Yern, GEO169151

RECORDS RECEIVED

Date Received 10-25-73 Well Summary (Form 100) History (Form 103)	
Well Summary (Form 100)	àtte
	-
ELEC. LOG - LGC. Small	eis.
Minally and the second se	ê.
Sidewall Samples	ið.
Other ferrar	
Other tory methods and the house of the hous	
Notice of Records Due Form 170	
Date Final Records Received	
Low moder responses of the book of the boo	,
ENGINEERIS CHECK LIST	ł
1. Summary, History, &	C
Core record (dupl.)	Ĩ
2. Electric Log 3. Operator's Name 4. Signature	C
> · Vperator's Name	14:000
4. Signature 5. Well Designation 6. Location	RI
7 TTS	,
<pre>8. Notices 9. "T" Reports 10. Casing Record 11. Plugs</pre>	
9. IIII Reports	
10. Casing Record	Le
	\$ - 42 -
13. Production	ø
1.5. Production Language and a second	4
	- 8 ,
RECORDS NOT APPROVED	
Reason: Hala Car available	
Mellogia Accidentificação de construição de construição de construição de construição de construição de constru	
RECORDS APPROVED 100	
RELEASE BOND Blankst Date Eligible	
(Use date last needed records were	
recerved.)	
MAP & MAP BOOK # WS-2 12-12-73	

STATUS

Producing - 011
Idle as 011
Abandoned a OIL
Dr. 1111ng on Idle
Abandoned - Dry Hole
Producing - Gas
Idle - Gas
Abandoned - Gag
Gas - Open to oil Zone
Water Flood Source
Water Disposal
Water Flood
Steam Flood
FLYS FLOOD
Alr Injection
0as Injection
CO2 Injection
LPC Injection
Deerval flou

DATE

RECOMPLETED

CLERICAL CHECK LIST

- 1. Location change (F-165) 2. Elevation change (F-165) 3. Form 121
- L. Form 159 (Final Letter) 5. Form 150b (Release of Bond)

Record o. 1c. 12-12-73 8. U.K.

RECORDS RECEIVED

Name and a second of the second s

Notice of Records Due Form 170

Date Final Records Received

ENGINEER'S CHECK LIST

4	Summary, History, &	
	Core record (dupl.)	1.1
2.	Electric Log	ananan alaithinni anana
(N) +	Operator's Name	usidhistaanseedaga
4.	SIGNATION CONTRACTOR C	wikerstration (http://www.analogica.com
с.) ж	Well Designation	Contraction of the second s
6.	LOCATION	n-theleiansusiderses
7:	RLevel 1011	WARDCOORDECTS Property
8.	AOTIOGO CONTRACTOR CON	Managambasusata
<u> </u>	1921 Report	nacimaticaticas
10.	Gasting Record	animatik westera
11.	Plugs	and an
12.	Surface Inspection	and a second
	Production	Asseed of Landstein Bolton
	Value of the second se	STANSIN MUNICIPALITY

STATUS

Producing - 011
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Abandoned - Dry Hole
Producing a gas
Abendoned "Ges
Gas - Open to OH Zone
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DATE

RECOMPLETED

CLERICAL CHECK LIST

Section and the second

	Location		(F-165))
Ž ø	Elevation	1 change	(r-165)	
	Form 121	Land Constant	to-halaety .	de Restalita ambaiacana a constante e calabilita da de Cara
10 A	Form 159	(Final Le	tter)	instructure de la contract de la contracteur de la contracteur de la contracteur de la contracteur de la contra La contracteur de la c
, 7 #	Form 150b	(Release	of Bond)	a kana kana pangangan kanala na kana kana kana kana kana ka

RECORDS NOT APPROVED Reason:

RECORDS APPROVED

RELEASE BOND

Date Eligible (Use date last needed records were received.)

MAP & MAP BOOK

FORM	00	1. g. ¹ .				CY OF CALIFOR	NIA			
÷	•	· •	DIJIS			OIL AN	ND G.	S		
			W	ELL	SUMM	ARY REP	ORT			
					SUBMIT IN	DUPLICATE	."»,		. morray)	
Opera		and a second	, Operator	- the film of the second system in a system of				lver Creek	27X-29	
Sec	, T	<u>145</u> , R.	13E 1	<u>M. D.</u>	B. & M.	Cheney	Ranch	Field	Fresno	County.
Locat	ion660'_N	North and	990' East	from	<u>s. w. c</u>	orner, Sec	tion 29		and a start of the start of t	
		- " 1. 22/a 2." (a) and a second				ty or section corner, o Elevation of gr			77feet	
All de	pth measureme	nts taken from	top of						<u>11</u> feet abo	
In c	ompliance with t condition of t	Sec. 3215, of	the Public Res	ources	Code. the i	information of	ven herewith	is a complete	and	ord of the
	July 23, 1							<u>m J. A</u>	7	
-	Fred Green	<u></u>							ch R.a	- The framework of the Charles of th
	XXXXXX G	eologist)		(5	iuperintendent)		Title		cretary or Agent)	
	enced drilling_						GEOLOGICAL I	MARKERS	DEI	тн
	leted drilling	and the second		72.50 6	•	Base	Kreyenhag	gen Shale	451	0'
Total	depth746	0'Plug	ged depth7	280 '		Base	Eocene Sa	and	539	<u>)'</u>
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				- <u>Cs</u>		- 1973			۲ 	
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		an gan dan mangangka ana gangan gan gangan ganga				Geologic	age at total o	depth: Cre	taceous	anna a chuir a chuir a chuir a chuir a chuir ann an chuir ann.
Comm	enced producing			/KHNIN	tronger	_	producing zo		taceous San	nd
		(Date)	(Cros	out unne	cessary words)	···				
			Clean Oil bbl. per da	Y	Gravity Clean Oil	 Per Cent Water including emulsion 		as per day	Tubing Pressure	Casing Pressure
	Initia	production	Condensat	e mis	t		573	rate	405#	540#
	Production a	fter 30 dave	Chaster d'any	** •.			·····	Tace	40.517	
		itter 50 days	Shut in.	Wait	on gas	line conr	lection			
				Casing	G RECORD	(Present Hole)				
Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	1	New or ond Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforation
9"	1710'	Surface	45	<u>s.</u>	<u>H.</u>	Smls.	D	12支''	512	
<u>4날</u> "	7332	Surface	9.5-10.5	New	· .	Smls.	K-55	- 7-7/8"	270	
										an a
- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1				n			- AND - John - And -			
		(Size, top,	bottom, perfora	ted int	erforate ervals, size	D CASING and spacing of	f perforation	and method.)		
41/1 W	5.0. 6876'		ur .32" hol							
	35 '- 7245' f				(Saueez	ed with 31	sacke	ement)		
	35'-7245' t					<u> "ICH J1</u>	JUCKS C	caent)		
	45'-7250' f									
	e well directiona				Log Dept	Jacobs hs Welex I	mud log, -ES 1730	6000-7460 '-7457';	_(Attach Copy	of I \
	∆ osp				0 T.		500'-745		-(main copy	UI LOG)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

FORM 103

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator E. A. Bender, Operator			.D	Chene	ey Ra	anch		
Well No. Silver Creek #27X+29	, Sec.	29	, T	14S	, R	13E.	<u>M. D. B</u> .	& M.
Date July 23, 1973 , 19, 19,							ch)	
P. O. Box 52, Bakersfield, Ca. 93302 (Address) (Telephone Number		5)/ ⁸³¹ -	7461 Tit	le Ag	gent		(President, Secretary or Ag	ent)

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

Date		
<u>1972</u>	DEPTH	REMARKS
12-7	714'	Gary Drilling, Contractor, spudded in 7:00 A.M. with 12द्र" bit on 4ट्रे" R.I.F. drill pipe, using fresh water gel mud.
12-8	1710'	Drilled 12½" hole. Run 9" casing.
12-9	1710'	Cemented 60 joints used 9" A.P.I., 45#, Grade D, 8 Vee thread, range 2, seamless casing, including guide shoe at 1710' with 362 sacks Class G cement premixed with 8% gel followed by 150 sacks Class G cement treated with 3% CaCl ₂ . Mixing time: 35 minutes. Displaced with 568 cu. ft. mud using one top rubber
		plug in 15 minutes. Plug did not seat. Equalized 25 sacks Class G cement premixed with 3% CaCl ₂ through open end 1" pipe hung in annulus. C. I. P. 3:30 A.M., B-J cementers. Stood 6½ hours. Landed 9" casing, installed casing head and B.P.O.E. Tested to 1500 p.s.i.
12-10	1724'	Located top of hard cement at 753' using 7-7/8" bit and drilled out cement to 1700'. Retested B.P.O.E. to 1500 p.s.i. for 15 minutes and drilled out shoe.
12-16	6117'	Jacobs mud logging service on at 6000'. Drilling 7-7/8" hole.
12-20	6459;	Drilled 7-7/8" hole to 7460'. Welex recorded I-ES log 7457'- 1730', and sonic log 7457'-5500'. Took 27 sidewall cores. Ran in 7-7/8" bit and conditioned mud 6 hours.
12-21	7460'	Laid down 4½" drill pipe. Ran 139 joints new 4½" A.P.I. 9.5 and 10.5#, K-55, 8 round S.T.&C., NKK, range 3 seamless casing to 7332' including B & W open guide shoe with B & W float collar at 7290'.
12-22	7460' Float 7290'	B-J cemented 4 ¹ / ₂ " casing at 7332' with 135 sacks Class G cement premixed with 135 sacks Diamix A, 117# slurry. Mixing time 25 minutes. Displaced cement with 677 cu. ft. fresh water in 35 minutes, using one top rubber plug. Bumped plug with 1200 p.s.i. Float would not hold. Re-bumped plug at 1200 p.s.i., end shut-in at head. Preceded cement with 500 gallons mud sweep. Cement in place 1:50 A.M. Crews off for holiday.

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				BOURCES AGENCY		A			
			DIVISIO				19		
		· ·						Page 2.	
			Histor	ry of Oil	or Gas	Well			
	Operator	<u>E. A.</u>	Bender, Operator		FIELD	Cheney F	lanch		
		Silver	Craal #278 20	0.0		1/0	1.033		
	Well No.	DTIVEL	Creek #27X-29	, Sec. 29	, T	145	, R. 13E	<u>M. D.</u> B. &	М.
	Data		, 19	<i>c</i> .	4				
		, , , , , , , , , , , , , , , , , , ,		. Sig	ned				
					Tit	1a		·	,
	(Address)		(Telephone Num	nber)	III.	10		(President, Secretary or Agent)	
Date	and cooting	tion test details	ce to have a complete history r during re-drilling, altering , amounts of cement used, to	OF CASING. MINGOL	no or shandor	nmant with th	an daama ah sussef	D	
<u>1972</u>	DEPTH	н _с		REMA	RKS				
12-27	7460'	•	Inndad / Lu an	of mon and d		1 7 7 0	F1 3/ 1		
12-21	Plug 72	76'	Landed 4½" ca ran 2-3/8" E.	U.E., used	nstalled 4.6#. {	1 B.P.O. 3 rd. th	L. Made read tub:	up and ing with	
		~	4½" casing sc	raper to 7	276'. (Changed	over from	n fresh	
			water to 72# for 15 minute	salt water s. O.K.	. Teste	ed B.P.O	.E. to 1	500 p.s.i.	
12-28	11			1	-		_		
12-20			Go-Internatio 7256'. Recor 6876'-6877' f	ded 7256'-	n log ar 6800'.	nd colla Perfora	r locator ted four	.32" holes	
12-29	H · · · ·		Set Howco pac tubing and 50 open one hour remainder of I.S.I.P. 3075 F.S.I.P. 3075 Division of O	0' fresh w . Puff bl test. Rec p.s.i., I p.s.i., W	ater cus ow with overed n .F.P. 43 .S.O. ap	shion. intermi net rise 30 p.s.i	Tool with ttent lig of 270' ., F.F.P.	t blows gassy fluid. 586 p.s.i.,	
12-30	. 11		6.4#, open-en	holes per d tubing a lled Xmas	foot, 7 t 7194'	235-724 with Ba	5'. Hung ker AD-1	gun perfora- g 2-3/8" E.U.E., packer set at bbed well in.	>
12-31	11	:	Blew well 4 he Contractor re	ours. Wat leased. W	er sampl ell shut	e teste in.	d 594 gra	ins per gallon.	•
<u>1973</u>									
2-5	11		Opened casing pressure 450 p light blow fla	p.s.i. Pr	essure b	led off	immediat	with initial ely with very in.	·
3-13	7460' Plug 72	76'	Pyramid Oil We 6876'-6877' to 7164'. No dro salt water int Spudded packer packer rubber f	o 1750 p.s op in pres to formation to break	.i. on a sure, W. on throu	nnulus S.O. O. gh perf	with pack K. Displ orations	er set at aced 10 barrels 7235'-7245'.	5

	анан (т. 1996) 1976 ж. – С. 1976 1976 ж. – С. 1976 ж.	FORM 103	SUBMIT IN DUPLICATE \triangle of resources agency of california
			DIVISION OF OIL AND GAS
			Page 3.
			History of Oil or Gas Well
		Operator E. A. Ben	der, Operator Field Cheney Ranch
		Well No. Silver Cre	eek #27X-29, Sec. 29, T. 14S, R. 13E, M. D. B. & M
		Date	, 19, Signed
		(Address)	(Telephone Number) (President, Secretary or Agent)
		It is of the greatest importance	to have a complete history of the well. Use this form to report a full account of all important operations during th
	Date	arning and testing of the well or c	luring re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such item mounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and
		זזויינייזט	
	1973	DEPTH	REMARKS
	3-14	7460' Plug 7285'	Located top of fill in 4½" casing at 7247' with 3-7/8" bit on 2-3/8" tubing and cleaned out to 7285'. No packer rubber recovered. Conditioned salt water to 72 lbs. per cubic foot.
	3-15	11	Set Howco packer at 7260'. Pressure tested 4 ¹ / ₂ " casing to 2000 p.s.i. Dropped 200 p.s.i. in 10 minutes. Repressured to 2500 p.s.i. Pressure declined 700 p.s.i. in 5 minutes. Reset Howco packer 7128' and checked break down pressure on perforation 7235'-7245' at 4 cubic feet per minute and 2450 p.s.i. Displaced 35 sacks Class G cement (40 cu. ft.) at
•	• •		2400 p.s.i. increasing to 2950 p.s.i. last 10 cu. ft. cement. Held final pressure 2950 p.s.i. for 10 minutes with estima- ted 31 sacks to formation. Released packer; pulled up 361' and reversed out through tubing. Cement in place 1:45 P.M.
	3-16	11	Stood cemented 10 hours. Located top cement inside $4\frac{1}{2}$ " casing at 7156' using 3-7/8" bit on 2-3/8" tubing. Cleaned out firm to hard cement to 7245', then stringers of cement to 7285'.
	3-17	7460' Plug 7286'	Could not clean out below 7286' due to packer rubber and tubing torquing to a stop.
	3-18		Circulated hole clean at 7286'. Bit missing 3 cones. Ran 3-7/8" bit and casing scraper to 1800'. Crew off.
	3-20	7460' Plug 7280'	Ran 3-7/8" bit and casing scraper to 7286'. Circulated hole clean at 7286'. Mixed 38 sacks NaCl ₂ with 3% KCL in 60 barrels water and displaced to bottom for cement bond log. Go-Inter- national logged cement bond log with seismic spectrum from 7286' to 6500', and set $4\frac{1}{2}$ " casing bridge plug 7280'. Go- International perforated $4\frac{1}{2}$ " casing 7245'-7250' with four .32 holes per foot and 7235'-7245' with two .32 holes per foot, using 3-1/8" O.D., 10 gram DML jet gun. Hung 119 joints 2-3/8" O.D., 4.6# EUE 8 rd. thread open end tubing at 7250'. Installed Xmas tree.

FORM 103	RESOURCES AGENCY OF CALIFORNIA
	DIVISION OF OIL AND GAS Page. 4.
	History of Oil or Gas Well
Operator	E. A. Bender, Operator FIELD Cheney Ranch
Well No.	Silver Creek #27X-29, Sec. 29, T. 14S, R. 13E, M.D. B. & D.
Date	, 19, Signed
	Title
(Address)	(Telephone Number) (President, Secretary or Agent)
arilling and testin	reatest importance to have a complete history of the well. Use this form to report a full account of all important operations during g of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such ite ition test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting a data.
DEPTH	REMARKS
ŦŦ	Swabbed well 5 hours. Fluid level 4500'. Shut in.
*1	Casing pressure 40 p.s.i. at 8:00 A.M. Fluid level 4100'. Shut in. Released crew.
11	Casing pressure 2000 p.s.i. at 8:00 A.M. Fluid level in tubing 100'. Swabbed fluid level to 4000' with casing pressure 1420 p.s.i., well blew in. Blew well 3 hours with tubing pressure dropping from 1100 p.s.i. to 80 p.s.i. Shut in.
11	Tubing pressure 1500 p.s.i. at 8:00 A.M. Blew well down in 1½ hours. Killed well with salt water. Howco pumped in 200 gallons 15% HCL, followed by 400 gallons 12% HCL plus 3% H.F., then 400 gallons 3% KCL water. Displaced with salt water to top of perforations and shut in casing valve.
	Pumped acid-mix to formations and blue in cusing valve. With no breakdown in 4 hours, 15 minutes. Total displace- ment to formation 170 gallons 15% HCL and 70 gallons 12% HCL plus 3% H.F. Released pressure with 5 barrels return. Net to formation 1 barrel. Reversed out excess acid-mix to sump. Closed casing valve and swabbed fluid level to 1800' in 2 hours. Crew off.
99	Pumped acid-mix to formation at pressures of 2000-3000 p.s.i. with no breakdown in 4 hours, 15 minutes. Total displace- ment to formation 170 gallons 15% HCL and 70 gallons 12% HCL plus 3% H.F. Released pressure with 5 barrels return. Net to formation 1 barrel. Reversed out excess acid-mix to sump. Closed casing valve and swabbed fluid level to 1800'
11 11	Pumped acid-mix to formation at pressures of 2000-3000 p.s.i. with no breakdown in 4 hours, 15 minutes. Total displace- ment to formation 170 gallons 15% HCL and 70 gallons 12% HCL plus 3% H.F. Released pressure with 5 barrels return. Net to formation 1 barrel. Reversed out excess acid-mix to sump. Closed casing valve and swabbed fluid level to 1800' in 2 hours. Crew off. Casing pressure 175 p.s.i. at 8:00 P.M. Swabbed fluid to
	 Pumped acid-mix to formation at pressures of 2000-3000 p.s.i. with no breakdown in 4 hours, 15 minutes. Total displacement to formation 170 gallons 15% HCL and 70 gallons 12% HCL plus 3% H.F. Released pressure with 5 barrels return. Net to formation 1 barrel. Reversed out excess acid-mix to sump. Closed casing valve and swabbed fluid level to 1800' in 2 hours. Crew off. Casing pressure 175 p.s.i. at 8:00 P.M. Swabbed fluid to 4500'. No blow or pressure build-up on casing. Crew off. Casing pressure 1600 p.s.i. at 8:00 A.M. Swabbed fluid level to 4000' and well blowing gas. Casing pressure dropping at rate of 200 p.s.i. every 15 minutes. Contractor released.
T	 Pumped acid-mix to formation at pressures of 2000-3000 p.s.i. with no breakdown in 4 hours, 15 minutes. Total displacement to formation 170 gallons 15% HCL and 70 gallons 12% HCL plus 3% H.F. Released pressure with 5 barrels return. Net to formation 1 barrel. Reversed out excess acid-mix to sump. Closed casing valve and swabbed fluid level to 1800' in 2 hours. Crew off. Casing pressure 175 p.s.i. at 8:00 P.M. Swabbed fluid to 4500'. No blow or pressure build-up on casing. Crew off. Casing pressure 1600 p.s.i. at 8:00 A.M. Swabbed fluid level to 4000' and well blowing gas. Casing pressure dropping

(continued)

FORM 103

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Page 5.

	History o	f Oil or Gas	Well	rage 5.
OPERATOR E. A. BEI	nder, Operator	Field	Cheney Ranch	1
Well No. Silver Cr	eek #27X-29, S	ec. 29 , T.	14S	13E M. D. B. & M.
Date		Signed		,, ж. м.
(Address)	(Telephone Number)	Tii	tle	(President, Secretary or Agent)

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

Bean 1/4	Casing <u>Pressure</u> 540	Tubing Pressure 405	Rate MCF/Day 573	<u>Hrs./Min.</u> 03:40	<u>Remarks</u> Dodiac l#/min.	when
S.I. S.I.	2470 2470	550 2226	1964 awa 1964 awa	0:10 18:37	F.S.I.P.	S.T.
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Wait on line connection to P. G. & E. Shut in.

 $\frac{1973}{4-24}$

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PACIFIC GAS AND ELECTHIC CO. DEPT. OF ENGINEERING RESEARCH

ANALYSIS OF GAS SAMPLE

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PHODANE	0.04		
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N-RUTANE	0.0112		
ISO-PENTANE	0.0042		
N-PENTANE	ninnoy	and a second s	n North and an an an an an an an
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PAGE 2 OF 2

FORM 103

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator E. A. Bender, Operator Field	D. Cheney Ranch
Well No Silver Creek #27X-29, Sec29	., T. <u>14S</u> , R. <u>13E</u> , <u>M. D. B. & M.</u>
Date	
(Address) (Telephone Number)	'Title

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items initial production data (President, Secretary or Agent)

			Bit	Record			
<u>Bit No.</u>	Size	Make	From	To	Feet	Hours	Remarks
		Varel Y3AJ	0' 1021' 753' 1160' 1992' 2502' 3064' 3566' 4535' 5071' 5334' 5663' 6000' 6305' 6851' 7146'	1021' 1710' 1160' 1992' 2502' 3064' 3566' 4535' 5071' 5334' 5663' 6000' 6305' 6851' 7146' 7460'	1021' 689' 407' 832' 510' 562' 502' 969' 536' 263' 329' 337' 305' 546' 295' 314'	$ \begin{array}{c} 16-3/4\\ 8-3/4\\ 7\\ 13\\ 11\frac{1}{2}\\ 10\frac{1}{2}\\ 10\\ 15-3/4\\ 11\\ 12\frac{1}{2}\\ 16-3/4\\ 11\frac{1}{2}\\ 18\frac{1}{2}\\ 18\frac{1}{2}\\ 15\\ 13\frac{1}{2}\\ \end{array} $	Retip Retip D. Ø. Cement Cement & Formation

Date

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Page 6.

DESCRIPTION OF SIDEWALL SAMPLES

"SILVER CREEK #27X 29

Depth	Description
6259'	Shale, dark brown, clayey, NOSCF.
6305'	Sand, light grey, soft, Kaolimitic, NOSCF.
6555'	Sand as above. NOSCF. Some embedded claystone.
6567'	Sand as above, clayey. Faint petroleum odor. Faint cut. Scattered yellow white fluorescence.
6752'	Sand, medium to light grey, Medium to fine grained, abundant interstitial Kaolin. Fair odor, trace milky cut, NSF.
6757'	Sand as above, trace petroleum odor. NSCF.
6784'	Shale. Dark brown, massive, silty, common crushed forams, trace petroleum odor.
6899'	Sand, medium grey, medium to fine grained, abundant interstitial Kaolin. Trace petroleum odor, NSCF.
6905 '	Sand, medium dark grey, fine grained, Kaolinitic, NOSCF.
6924 '	Sand, light grey, fined grained, soft, friable, Kaolinitic, NOSCF.
6935'	Sand as above, faint petroleum odor, MFS.
6971'	Sand, medium grey, soft, friable, Kaolinitic, good petroleum odor, Fair milky cut, NFS.
6988'	Sand as at 6971', except slightly more Kaolinitic, good odor, milky cut, NFS.
6997 '	Sand as above, good petroleum odor, faint light yellow fluorescence, fair milky cut, no stain.
7032'	Sand, dark grey, fine to medium grained, Kaolinitic, NOSCF.
7075'	Sand as at 7032'. NOSCF.
7135'	Sand, medium grey with shale partings, Kaolinitic, NOSCF.
7165'	Sand as above. Faint petroleum odor, no fluorescence. No cut.
7175'	Sand, medium grey, medium to fine grained, less Kaolinitic than sands above. Trace petroleum odor. NSFC.
7185'	Sand as at 7175'. Slightly more Kaolinitic. Fair petroleum odor, NSFC.

Page 8.

DESCRIPTION OF SIDEWALL SAMPLES

"SILVER CREEK #27X+29

Depth	Description
7218	Sand as last described, faint petroleum odor, no fluorescence or cut.
7244 '	Sand as above, faint odor, no fluorescence, faint milky cut.
7252	Sand as above, faint petroleum odor, trace milky cut, no cut. Abundant interstitial material.
7265'	Sand as above, good petroleum odor, faint milky cut, faint yellow fluorescence.
7271'	Sand as above, fair petroleum odor, NSFC.
7315'	Sand as above, abundant interstitial material. Faint petroleum odor. NSCF.

Page 9.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS Page 7.

History of Oil or Gas Well

Operator	E. A. Bender, Operator	Field_	Cheney	Ranch	
	Silver Creek #27X-29				, М. D. В. & М.
Date	, 19	Signed	-		
(Address)	(Telephone Number)		Title	(Pre	sident, Secretary or Agent)

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

		Single Shot Deviation Record		
Depth	<u>Ang1e</u>		Depth	Angle
990 '	0° 30'		500/1	-0
1021	00 30'		5334	3° 00'
1715'	0° 45'		5648'	2 ⁰ 15'
2502 '	0° 15'		6000'	3° 00'
3064'	0° 45'		6305 '	3° 15'
3566*	0° 45'		6851'	4 ⁰ 15'
4535'	1° 00'		7146'	4 ⁰ 15'
5071'	1° 30'		7460'	4 ⁰ 15'

Date

FORM 103

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Well 27×

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C. Stranberg

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FORM 109

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

Report on Operations

	No. T_ <u>573-1</u>
Mr. Herlin J. Frasch, Agent E. A. HEMIER, OPPEATOR P. O. Box 52 Bakersfield, CA 93302	Coalinga Calif. January 2, 1973
U. Naro,	representative of the supervisor was re were also present <u>E. A. Bender, Operator, and</u> Foreman (Gary Drilling Co.)
The operations were performed for the purpose of formation tester.	testing the 4 ¹ water shut-off by a
Mrr	eported:

THE 42" SHUT-OFF AT 6875' IS APPROVED.

EVK:ef cc: Company

JOHN F. M	ATTHEWS, JR.	
	Gas Supervisor	
By	CH Corum	Deputy

59471-705 1-72 20M () OSP

Halliburton Formati Tester Water-Shut-Off Test .00	month of the product of
Operator <u>E. A. Brinder, Opr</u> Water Shut-Off Test .no	
Well No. <u>"Silver Cuerk" 27X (019-20726</u> Sec. <u>29</u> , T. <u>145</u> , R. <u>13 E</u> Field <u>Cheney Pornch Gas</u> , County <u>Frecho</u>	as tested for water
B. Wave fortunan (Game Arilia Game). There were also present	E.A. Bender, Cor.
Casing record of well: 9" (200 1200 14/1/ 1500)	
present from <u>0900</u> , Mr. <u>E. V. Kandela</u> , representative of B. <u>Wave</u> <u>Evennon</u> (<u>Eavy</u> <u>Mrilling</u> <u>Co</u>) Casing record of well: <u>7" rem 1710</u> ; <u>4 '2' rem 1332</u> ; <u>four</u> <u>T. D. 7332</u> ; <u>plugged</u> with <u>rem. 7332</u> ; <u>72.90</u> '	boles 6875 W.S.D.
The operations were performed for the purpose of <u>trating the 415"</u>	Meter shut all
	n an
The '// " shut-off at ' is approved.	ann a mar cuinte ann ann an Anna Anna a
The operations as witnessed and reported are approved and indicat access to the well from the annulus between and	e that no fluid has
The operations as situated and	'' casings.
The operations as witnessed and reported are approved as indication injection fluid is confined to the formations below' a	ng that all of the t this time.
Hole size: "fr. ' to !, " to ! &	11 to 11 the set of th
Casing (Cementod	alaana maa haadaa ahaa ahaa ahaa ahaa ahaa ah
Size Wt Top Pattern Die Schertled 10p of Fill Squee	zed Final
Size Wt. Top Bottom Date MO-Depth Volume Annulus Casing Away Y''_2' 1.5-10.5 Sunface 733.2 Tump. \$768 ± 7290.4	y Press. Perfs.
	NEW (NO Y SERVICE AND IN AN A DESCRIPTION OF A DESCRIPTION
	n - Marina Mandar Mandar - Marina Mandar - Manandar Anan - Mandar - Man
	nan kan an a
M 135 Class 6 premixed with 135 sx Diamix A losat	Box
Depth or interval tested 6876 - Gerry (4- 4" holes)	ion of battle collar
The hole was open to	19 .
Packar(a) Cut C . c	
IHP IFP FFP FHP Blow Inp IFP FFP FHP Blow Inp Inp Inp Inp Open for test Inp Inp Inp Inp Date 19 Time Guage/meter reading Pump depting	hion <u>900</u>
Open for test I Hr. how how thru aut tect	
Date 19 Time Guage/meter reading Pump Pump Date 19 Time Guage/meter reading Pump depth Fluid level 'surveyed on 19 reviewed (witnessed) by	24 Warter (100)
Date 19 Time Guage/meter reading Fump depth	Engro
Fluid level' surveyed on 19 Engr Total fluid produced, Bbls Not sil	Chine durate a generative control a control a
	and the second se
RA/Spinner (Temperature) survey me at B/D water, %	water cut
Rate: B/D oil, B/D water, Water RA/Spinner (Temperature) survey run at B/D & psi on % fluid confined below ' (Packer depth ')	
The formation tester parted from the tubican	
no appreciable entry, IHP, IEP, EFP and FILP re-	L S MANUMA
Not obtained I gut the way the re-	anings were

Form 35 Rev. 5/72

Form 109

DEPARTMENT OF CONSERVATION

Report on Operations

No. T_ 572-276

Mr. Merlin J. Frasch, Agent E. A. BENDER, OPERATOR P Q Box 52 Bakersfield, CA 93302	Coslinga, Cali December 12, 1972
on December 11, 1972. Mr. E. V. Kearlele	rere also present B. Ware, Foreman
The operations were performed for the purpose ofi equipment and installation. Mrreport	

THE BLOWOUT-PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

EVK:fd cc: Company

OHN F. MATTHEWS, JR.	
State Oil and Gas Supervisor	
By_C.A.Corwins	ţ

59471-705 1-72 20M 3 OSP

1100

__Deputy

578- 8. 74

BOPE Memo

Operator E.A. Bender, Char

Well No. "Silver Creck"	X (OIG (BOARD)	Sec. 29, T. 14, R. 15	3. M.D B&M
Field Cheney Ranch Gas	, County Fresho	. On Dec 11, 19	ny of the
Mr. <u>E.v. Kanstela</u>	, representative of	the supervisor was presen	t from agao
to 1000. There	was also present R	Wave Soreman Gara	
Casing record of well: ?"	cem 1710, 7.8.2	oso (driftes)	<u>,</u>

The operations were performed for the purpose of testing (inspecting) the blowout-prevention equipment and installation.

 $\overline{/\chi/}$ The blowout-prevention equipment and installation are (not) approved.

Hole size: 12 4 " fr. Swefere' to 1710 ', 7% " to Drilling' & ____ " to ____ "

X		alled	BOPE	Anch	or)		(Cem	ented			Тор о	<u>Tested</u> f Fill	Date	Psi	Time (Min.)
	Size	Wt.	To	P	Bottom	Date	M	10-	Depth	Vc	lume	Annulus	Casing			
X	Q.I.	45	SurG	. e. \$.	1710	12/8/72	段;	anip	1210	¥	120million - Saura Parlation - S	Red wing	753			a anticonomic and a state of the state of th
	<u> </u>				- Chonese and a second spin of					L						
	伴 36	22 C 14	ast (m	R. 19 (381 when	Hawed by	310w	် ် ကျ	t Prev	Sel vent	ers	\$2.			1	\$ 8
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-		to Bot	ttom			Model	I)at	e	Bo	lt	Size	Rating			
X	Annu			<u> </u>	Hyelr, 1	GK 10-960					lesser		5000	12/10/72	1500	15 malia
X		rams		2	Shallo								+ ?	11	ja ja	L^{2}
X	Blin	nd rame	3	3	11	ža ir i	وستواجز والكيد فاله					-	47	12/11/2	23	Simon
	<u> </u>					and a second	Ann Braistead				8124 - YALIFARING MARKANI, MARKANI MARKANI, MARKANI MARKANI MARKANI MARKANI MARKANI MARKANI MARKANI MARKANI MA					
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					si	Size or			T		\$6.00° a 15 mar 19 m	Psi	Size or		anne fa an	
<u> </u>	Туре		-	R	ating	Capacity		X	Type			Rating	Capacity			
X	Accu	mulato	or	19	560	80 Gpl]	X	Choke	2 li	ne	5000	2.11			
$ \times$		ogen t	ottl	e 72	00	Zlatie 22	yke.v ^{er} t	X	Fill-	-up	line	5000		Leca	ne li	ne
	The second se	pump		Statement of the local division in the	500]	X	Kill	lin	е	5000	211	5	deli indici - terre d'anni 174	
		dpipe		anne formatione	000	N.A.	1	\leq		and the second	lines	and a second sec	1"			
\bowtie	Chec	k valu	1e	50	200	W7 11					head	N.A.	<u>N.A.</u>			
	Insi	de BOI)						Banjo blow			N.A.	N.A.			
X	Kell	y cock	<u>c</u>	5	000	N.A.			Muff1 blow1			N.A.	N.A.		₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	
X	Spoo	1		. Sr	`℃-Q	15" 900]		Press relie				nalifeitian dar in men a den et departance maine			an real an i an 192 . An Rose Calabrations

Drilling Fluid Program

and the second					
Туре	Weight	Water Loss	Cake	Viscosity	Storage
Nation Solidy			2/32	56-70	140 6611

BOE	PE Control Stations	
Remote:	Lailers Sto	1
Remote:	100 It Surana well have	1
Manual:		T
¥ W	ill have manuals	

	Alarm	
Monitoring Devices	Yes	No
Calibrated mud pit		X
Mud pit level indicator		×
Gas detector		X
Continuous (mud densimeter or)		and the supervised of the state
(temperature recorder)		

Form 36 Rev. 5/72

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 572-296

Mr. Merlin J. Prasch, Agent		
E. A. HENDER, OPERATOR	the second the second second	
P. O. Box 52	Naamhaa (1070	Calif.
Bakersfield, CA 93302	December 6, 1972	

DEAD STD.

FORM 111

DIAN DIN:		(019-20726)
Your	19 de tas das	
IUUI	proposal to drill	Well No."Silver Greek" 27X
Section 29 TILS	n The What we wanted the	Wen IVO. STAR VIE CIA
uccuon and i familie ,	R. Adder B. & M Uneney R	anch Gas Field France o
dated 11~30~72	1 Toust wm	Well No. Silver Creek" 27X Lanch Gas Field, Fresno County, nined in conjunction with records filed in this office.
uatou re	ceived has been exam	nined in conjunction with records flad in this offer
	, Outer	integ in conjunction with records med in this omce.

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

- The 9" surface casing shall be cemented with sufficient cement to fill back of 1. this casing from the shoe to the ground surface.
- Mud fluid of sufficient weight and proper consistency to prevent blowouts shall be 2. used in drilling, and the column of mud fluid shall be maintained to the surface at all times, particularly while pulling the drill pipe.
- Adequate blowout-prevention equipment shall be installed, consisting in part of power-3. operated equipment capable of closing in the well with the pipe either in or out of the hole. Power-operated controls shall be situated both on the derrick floor and at a remote location. For this well, minimum equipment shall consist of an annular preventer and two ram-type preventers, one of which is a complete shutoff and the other is to close around the drill pipe.
- This Division shall be consulted regarding the cementing of the $5\frac{1}{2}$ " casing before 4. running it into the hole.
- This Division shall be notified to witness: 5.
 - a. a pressure test of the blowout-prevention equipment on the 9" casing string prior to drilling below the shoe of the casing.
 - b. a test of the water shut-off through four shot perforations immediately above the objective sand, prior to perforating the casing for production.
- Note: Information on file in this office indicates that the base of the usable fresh water deposits should be encountered above a depth of 1700'.

Blanket Bond RAR: of cc: Company

JOHN F. MATTHEWS, Jr., State Oil and Gas Supervisor

By CHCouvin) , Deputy

57525-705 11-71 35M () OSP

FORM 10	25
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4

019 20726

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

			Bakers	sfield	Calif.	November 30	19 72
DIVISION OF	OIL AND	GAS					
In compliance	e with Secti	ion 3203, Division	III, Article 4, J	ublic Resource	s Code, not	ice is hereby given	that it is our
intention to com	mence drill	ling well No.	Silv	ver Creek 2	7X-29	, Sec. 29	, т <u>. 14 S</u> ,
R. <u>13 E</u> ,	<u>M. D.</u> B. &	z M.,	<u>Cheney Ranc</u>	:h (*#5 - F	Field,	Fresno	County.
Legal description	of mineral	-right lease, consisti	ng of <u>16</u>	0 acres,	is as follow	/s:	
Southwes	t Quarte	r, Section 29	<u>, Township</u>	14 South, 1	Range 13	(Attach map or East, M.D.B.	
surface and mine	ral leases, a	s coincide? Yes nd map or plat to so	cale.				
Location of Well	:660	feet Not	cth al	property ong section line	and 9	90 feet	
at right angles to said line from the <u>Southwest</u> (Direction) at right angles to said line from the <u>Southwest</u> corner of section.							
0 0 -							
				UShing able or Kelly Bushing)	which i		
SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	ТОР	воттом		CEMENTING DEPTH	S
9"	<u>45</u> #	<u>D - Smls.</u>	01	1700'	Shoe	Shoe to surface	
5½"		к-55	01	7500'	7500	<u>±</u>	
Intended zone(s) of completion: It is un	(N:	Moreno ame) hat if changes in t	(D	7250 '± epth, top and bottom) e necessary we	12	nated total depth	
Address P. O						Operator	
				20		e of Operator)	
<u>Баке</u>	rsrield,	Calif. 9330	<u> </u>	ЗуМ.	<u>. /. ()</u> J. Fras	ch, Agent Red	8 - 2 M •

Telephone Number (805) 831-7461

Type of Organization Individual (Corporation, Partnership, Individual, etc.) F3 to locate API #, F2 to exit, Esc to undo

Operator * Field Cencal Drilling, Inc. Cheney Ranch Gas Status Туре Sec Twn Rge Well TDLE-5 DG 29 145 13E "Silver Creek" 27X API # 019-20726 BFW Elevation 377' KB Location 1600 Fr SW cor 660 N 990 E

Lambert N/S Lambert E/W Grid Map status IDLE-GAS

Casing history 9" cem 1710'; 4-1/2" cem 7332', perf 6877'-6876'WSO, perf 7250'-7235' & 6984'-6966'. TD 7460'. Plugged w/cem 7332'-7286'.

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

*