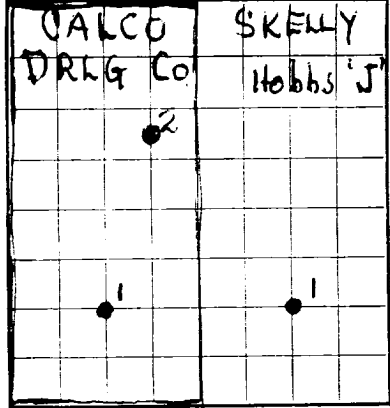


U. S. LAND OFFICE LAS CRUCES
 SERIAL NUMBER LC 070397
 LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Calco Drilling Company Address Fort Worth 2, Texas
1113 Continental Bank Bldg.
 Lessor or Tract Superior-Federal Field Pearl (Queen) State New Mexico
 Well No. 2 Sec. 29 T. 19. S. 35 E Meridian NMPM County Lea
 Location .890 ft. [S.] of N. Line and 1650 ft. [W.] of E. Line of SECTION 29 Elevation 5709 DF
(Derrick floor relative to sea level)
 The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
 Signed A. P. Callahan
 Date September 25, 1958 Title Gen. Mgr. - V. Pres.

The summary on this page is for the condition of the well at above date.
 Commenced drilling August 20, 19 58 Finished drilling September 19, 19 58

OIL OR GAS SANDS OR ZONES
 (Denote gas by G)

No. 1, from 4810 to 4821 No. 4, from 5034 to 5044
 No. 2, from 4938 to 4994 No. 5, from _____ to _____
 No. 3, from 5000 to 5010 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 360 to 390 (Santa Rosa) No. 3, from _____ to _____
 No. 2, from 1720 to 1790 (Rustler) No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
<u>8-5/8 24#</u>		<u>8-R Th. Smls.</u>		<u>328'</u>	<u>Tex. Pat'ns.</u>				<u>Surface</u>
<u>4-1/2 11.6</u>		<u>8-R Th. Smls.</u>		<u>5049'</u>	<u>Comb. Flo- at Guide</u>				<u>Prod. String</u>
<u>2-3/8 4.7#</u>		<u>8-R Th. Smls.</u>		<u>4980'</u>					<u>Tubing</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>328'</u>	<u>265 reg. neat</u>	<u>HOVCO</u>		<u>Cement cir. to surface</u>
<u>4-1/2</u>	<u>5049'</u>	<u>200 reg. 840 LA-2</u>	<u>HOVCO</u>		<u>Theo. fill-up: 29' jr surface</u>

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

(PERFORATING) SHOOTING RECORD (4 1/2" CASING)

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
<u>(1) 0.25"</u>	<u>Jet</u>	<u>Shaped-Chge</u>	<u>24-holes</u>	<u>9-20</u>	<u>4814-20'</u>	<u>Upper Artesia Form.</u>
<u>(2) 0.33"</u>	<u>"</u>	<u>"</u>	<u>32-holes</u>	<u>9-20</u>	<u>5000-05'</u>	<u>Upper Penrose Form.</u>

TOOLS USED

Rotary tools were used from surface feet to 5050' feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

October 7, 19 58 Put to producing October 5, 19 58
 The production for the first 24 hours was 149 barrels of fluid of which 98 % was oil; 0 % emulsion; 2 % water; and 0 % sediment. Gravity, °Bé. 38

If gas well, cu. ft. per 24 hours X Gallons gasoline per 1,000 cu. ft. of gas X
 Rock pressure, lbs. per sq. in. X

EMPLOYEES

Morning: J. L. Antee, Driller Evening: T. C. Marks, Driller
 Day: Don Aucutt, Driller Don Aucutt Tool Pusher

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	290	290	Surface clays, gravels, shales
290	1790	1500	Red Beas and anhydrite streaks
1790	1970	180	Anhydrite, salt, & Red Beas
1970	3030	2080	Anhydrite and salt lenses
3090	4610	1520	Dolomite and anhydrite streaks
4610	4622	12	Sand (Seven Rivers)
4622	4740	118	Sandy dolomite and anhydrite
4740	4810	70	Dolomite
4810	4821	11	Sand (Upper Artesia)
4821	4928	107	Sandy dolomite & shale streaks
4928	4988	60	Anhydrite & sandy dolomite
4988	4994	6	Sand (Upper Penrose)
4994	5000	6	Dense dolomite
5000	5010	10	Sand (Upper Penrose)
5010	5016	6	Shale
5016	5020	4	Sandy dolomite
5020	5028	8	Sand (Penrose)
5028	5034	6	Dense dolomite
5034	5044	10	Sand (Penrose)
5044	5050	6	Dense dolomite
TOTAL		DEPTH : 5050	ft.

