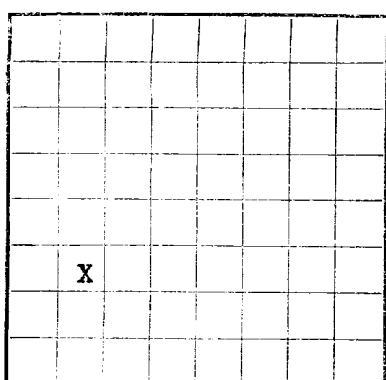


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078498
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
 Lessor or Tract San Juan 28-7 Unit Field Bianco M.V. & Wildcat P. C. State New Mexico
 Well No. 45 (PM) Sec. 27 T. 28-N7-W Meridian N.M.P.M. County Rio Arriba
 Location 1700 ft. [N.] of S Line and 1050 ft. [E.] of W Line of Sec. 27 Elevation 6090

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

Date November 29, 1960 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling 8-4- 1956 Finished drilling 10-30-56 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2705 to 2756 (G) No. 4, from 4907 to 5035 (G)
No. 2, from 4340 to 4408 (G) No. 5, from to
No. 3, from 4408 to 4907 (G) No. 6, from to

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ 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—	
10-3/4"	32.75	P.E.	S.W.	162	Howco				surface
7-5/8"	26.4	8 RD	J-55	2800	Baker				Prod casing
5-1/2"	15.5	8 Rd.	J-55	2311	Baker				prod liner
2"	4.7	8 Rd.	J-55	5009					prod tubing
1-1/4"	2.4	10 Rd.	J-55	2723					prod tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	165	125	circulated		
7 5/8"	2810	300	single stages		
5 1/2"	2784-5095	400	single stage & squeeze		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material----- Size **Guiberson "Shorty" packer @ 2864**

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		See Well History				

TOOLS USED

Rotary tools were used from 170 feet to 2810 feet, and from 2810 ~~Gas~~ Drilled 5100 feet

Cable tools were used from 0 feet to 170 feet, and from _____ feet to _____ feet

DATES

-----8-15-----, 19.60. Put to producing -----, 19.-----

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours P-1, 124, 000
M-2, 919, 000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. P-1000
M-863

EMPLOYEES

A.O.F. P-1133
M-3806 MCF/D

_____, Driller

....., Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	1872	1872	Tan to gry cr-grn ss interbedded w/gry sh.
1872	1972	100	Ojo Alamo ss. White cr-grn s.
1972	2435	463	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2435	2705	270	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2705	2756	51	Pictured Cliffs forms Gry, fine-grn, tight, varicolored soft ss.
2756	4340	1584	Lewis form. Gry, fine-grn, dense sil ss.
4340	4408	68	Cliff House ss. Gry, fine-grn, dense sil ss.
4408	4907	499	Menefee form. Gry, fine-grn s, carb sh & coal.
4907	5035	128	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5035	5100	65	Mancos form. Gry carb sh.

FORMATION RECORD—Continued

[illegible]

HISTORY OF OIL OR GAS WELL

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

Frac Pictorial Glass w/32,125 gal water & 30,000 # sand. MDP 3000 #, max pr 3000 #, avg tr pr 1000-1200 #. IE 50.3 BPM. Flush 6700 gal.

Trac cliff house & Point lookout as follows. Pumped
in @ 1500 #. pumped 50,000 # sand. Lost 5000 #. radio
active. Used 97,000 gal water w/ 90,000 # sand.
Finished w/ 6000 gal water. IR 58 BPM. Max 1st stage
1800 #. 2nd stage 1950 #. Avg 1st stage 1650 #, 2nd
stage 1850 #. Gaged 3500 MCF after trac.

2706-18; 2722-28;
2734-40;
4338-44; 4354-70;
4374-81; 4396-4408;
4430-4438; 4451-58;
4472-78; 4483-90;
4608-24; 4644-58;
5064-74; 5082-28;
5048-5055;