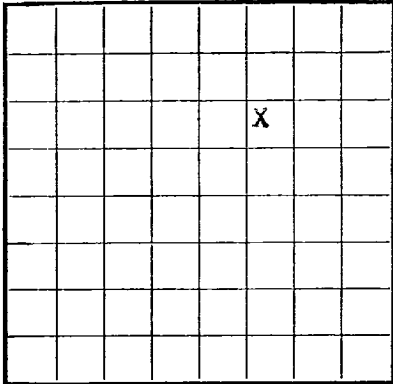


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078580
LEASE OR PERMIT TO PROSPECT _____



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 997, Farmington, New Mexico
Lessor or Tract Howell Field Banco State New Mexico
Well No. 1-A Sec. 8 T. 30N R. 5W Meridian NM County San Juan
Location 1650 ft. rock of N Line and 8 ft. rock of E Line of Section 8 Elevation 5340'
(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 _____

Date October 29, 1950 Title Petroleum Engineer

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

Commenced drilling 3-1-51, 19____ Finished drilling 4-27-51, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3155 to 3235 (G) No. 4, from 5408 to 5560 (G)
No. 2, from 4897 to 5010 (G) No. 5, from _____ to _____
No. 3, from 5010 to 5408 (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—	
9 5/8"	36#	8 RD	J-55	299'	Hallib.				Surface
7	23	8 RD	J-55	633'	Hallib.	Two stag Tool	3314'		
7	20	8 RD	J-55	4143'	Hallib.				Prod. Cag.
5 1/2"	15.5	8 RD	J-55	799'	Baker				Liner
2	4.7	8 RD	J-55	5429'					Prod. Tbg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	309'	120	Circulated		
7	4785'	375	Two Stages		
5 1/2"	4858-5463	170	Single Stage		

PLUGS AND ADAPTERS

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

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
1 1/2"		SNB	1730	4-29-51	4890-5550	5520
			See Remarks.			

TOOLS USED

Rotary tools were used from _____ feet to 4793 feet, and from _____ feet to _____ feet
Cable tools were used from 4793 feet to 5560 feet, and from _____ feet to _____ feet

DATES

10-7-50, 19____ 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 4,970,000 N.O.P. - 14,413 MCF/D. Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 919

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1690	1690	Tan to gry cr-grn ss interbedded w/gry sh.
1690	2495	805	Ojo Alamo ss. White cr-grn s.
2495	2825	330	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2825	3155	330	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3155	3235	80	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3235	4897	1662	Lewis form. Gry to white dense sh w/silty to shaly ss breaks.
4897	5010	113	Cliff House ss. Gry, fine-grn, dense sil ss.
5010	5408	398	Menafee form. Gry, fine-grn s, carb sh & coal.
5408	5560	152	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.

(OVER)

[illegible]

WORKOVER-

9-11-56 Squeezed hole in casing at 1420' with 100 sx.
Set B.P. at 4770'. Perf. 4 holes @ 4735' & sq. w/200 sx.
9-29-56 Set 25 lbs. 5 1/2", 15-54, 1-52 liner & Burns liner hanger (795') from
4658-5403 w/170 sx. Top of cement by temp. survey @ 5120'.
9-30-56 Squeezed top of liner with 200 sx. Pumped in at 800%. Max. & stand. 2000%.
T.D. 5560', F.B.T.D. 5455'. Water fractured Point Lookout (thru perf.)
5337-5357, 5373-5381 & 5409-5429 (4 sq. ft.) w/46,392 gal. water & 51,500
sand. HDP 2750', max. pr. 2750', avg. tr. pr. 1500%. I.R. 59.7 BHM.
10-3-56 Temp. B.P. at 5060'. Water fractured Cliff House thru perf. 4984-5004 &
4966-4974 (4 sq. ft.) with 60,630 gal. water & 60,000 sand. HDP 1875'.
10-7-56 Ran 175 joints 2" tubing 5489'.
Max. pr. 2400', avg. tr. pr. 1950'. I.R. 56.1 BHM. Flush 9000 gallons.

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, 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.

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