

[illegible]

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078496-A**
LEASE OR PERMIT TO PROSPECT
14-08-001-459

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
 Lessor or Tract San Juan 28-7 Unit Field Blanco & So. Blanco Est. State New Mexico
 Well No. 32 (EM) Sec. 4 T. 27N R. 7W Meridian N.M.P.M. County Rio Arriba
 Location 1190 ft. S of N Line and 119 ft. W of E Line of Section 4 Elevation 6722
(North, for relation to adjacent)

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. Original Signed R. C. Johnson

Date June 24, 1958 Title Petroleum Engineer

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

Commenced drilling 1-26- 19 58 Finished drilling 2-8- 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3278 to 3362 (g) No. 4, from 5518 to 5687 (g)
No. 2, from 4935 to 5079 (g) No. 5, from to
No. 3, from 5079 to 5518 (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.	161'	Howco				Surface
7 5/8"	26.40	8 Rd.	J-55	3453'	Baker				Prod. casg.
5 1/2"	15.50	8 Rd.	J-55	2309'	Baker				Prod. liner
2"	4.7	8 Rd.	J-55	5693'					Prod. tbq.
1 1/4"	2.4	8 Rd.	Grade A	3363'					Siphon

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4'	172'	125	circulated		
7 5/8'	3466'	150	single stage		
5 1/2'	3409-3718'	300	single stage		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material..... Size..... Baker "EGJ" Br., @ 2469'

SHOOTING RECORD

[illegible]

TOOLS USED

Core Drilled

Rotary tools were used from _____ feet to 3471 feet, and from 3471 feet to 5722 feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

----- 2-15 -----, 1953 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.C. 1,870,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. -----

EMPLOYEES M.V. 7625

-----, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	2444	2444	Tan to gry cr-grn ss interbedded w/gry sh.
2444	2565	121	Ojo Alamo ss. White cr-grn s.
2565	3001	436	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3001	3278	267	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3278	3362	94	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3362	4935	1573	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4935	5079	144	Cliff House ss. Gry, fine-grn, dense sil ss.
5079	5518	439	Menefee form. Gry, fine-grn s, carb sh & coal.
5518	5687	169	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5687	5722	35	Mancos formation. Gry carb sh.

FORMATION RECORD—Continued

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

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.

2-11-58 T.D. 5722'. COTD 5700'. Water frac. P.L. perf. int. 5522-5596; 5634-5644; 5652-5656 w/47,880 gal. water and 60,000# sand. BDP 1100#, max. pr. 2500#, trtg. 1600-1800-2000-2200#. I.R. 62 BPM. Flush 5000 gal. Dropped 4 sets of 15 balls for 5 stages.

2nd Set B.P. @ 5100'. Frac. Cliff House perf. int. 4958-4964; 4990-4996; 5020-5030;
5034-5042; 5048-5058; 5064-5070 v/33,600 gal. water and 50,000# sand. BDP 2600#;
max. pr. 2600#, trtg. 1900-2000#. I.R. 67 ~~1224~~. Flush 9240 gal. Dropped 4 sets of
13 balls for 5 stages.

3rd. B.P. @ 4900'. Frac. P.C. perf. int. 3286-3300; 3338-3356 w/30,450 gal. water and 40,000# sand. BDP 2400#, min. pr. 2400#, trtg. 1200-1300-1400#. I.R. 77 BPM. Flush 6720 gal. Dropped 3 sets of 10 balls for 4 stages.