

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER 078596

LEASE OR PERMIT TO PROSPECT

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 990, Farmington, New Mexico
Lessor or Tract Howell Field Blanco State New Mexico
Well No. 4-C Sec. 18 T. 30N R. 8W Meridian N.M.P.M. County San Juan
Location 933 ft. (N) of S Line and 931 ft. (E) of W Line of Section 18 Elevation 6332

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 September 27, 1961 Title Petroleum Engineer

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

Commenced drilling 9-28- 1957 Finished drilling 12-17- 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3080 to 3168 (C) No. 4, from 5263 to 5363 (A)

No. 2. from 4781 to 4889 (c) No. 5. from _____ to _____

No. 3, from 4899 to 5263 (a) No. 6, from 5263 to 5263

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from 1911-12 to 1912-13 No. 4, from 1913-14 to 1914-15

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"	22.75	8 rd	3-55	143	Howson	11 1/2" 100 ft	11 1/2" 100 ft	11 1/2" 100 ft	Surface
11 1/2"	20.75	8 rd	3-55	2104	Baker	11 1/2" 100 ft	11 1/2" 100 ft	11 1/2" 100 ft	Surface
5 1/2"	15.5	8 rd	3-55	2104	Baker	11 1/2" 100 ft	11 1/2" 100 ft	11 1/2" 100 ft	Liner
2 3/8"	4.7	8 rd	3-55	5310	OK	11 1/2" 100 ft	11 1/2" 100 ft	11 1/2" 100 ft	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"	173	150	circulated		
7 5/8"	3348	250	1 stage		
5 1/2"	3256-5360	300	1 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

TOOLS USED

Rotary tools were used from 175 feet to 328 feet, and from 328 feet to 526 feet.

Cable tools were used from _____ feet to 175 feet, and from _____ feet to _____ feet

212 DATES

-----12-17-----, 19-57 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 5,081,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1023 A.O.F. 15.319 MCF/D

EMPLOYEES

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1832	1832	Tan to gry cr-grn ss interbedded w/gry sh.
1832	2021	189	Ojo Alamo ss. White cr-grn s.
2021	2740	719	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2740	3080	340	Fruitland form Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3080	3168	88	Pictured Cliffs forms. Gry, fine-grn tight, varicolored soft ss.
3168	4781	1613	Lewis form. Gry, fine-grn, dense sil ss.
4781	4889	108	Cliff House ss. Gry, fine-grn, dense sil ss.
4889	5263	374	Manefee form. Gry, fine-grn s, carb sh & coal.
5263	5363	100	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5363	5366	3	Mancos form. Gry carb sh.

