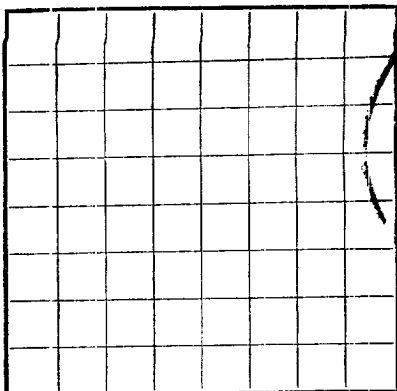


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079366
LEASE OR PERMIT TO PROSPECT

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 Rincon Unit Field Basin Dakota State New Mexico
Well No. 167 Sec. 13 T. 27 R. 1W Meridian N.M.P.M. County Rio Arriba
Location 1100 ft. S. of N. Line and 1550 ft. W. of E. Line of Section 13 Elevation 6655'
(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 Original Signed D. W. Meehan

Date August 16, 1962 Title Petroleum Engineer

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

Commenced drilling 6-29, 1962 Finished drilling 7-19, 1962

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

No. 1, from 7453 to 7582 (G) No. 4, from _____ to _____
No. 2, from 7582 to 7751 (G) No. 5, from _____ to _____
No. 3, from _____ to _____ 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"	38.2	8 rd	H-40	308					Surface
4 1/2"	11.6, 10.5	8 rd	J-55	7741					Prod casing
2 3/8"	4.7	8 rd	J-55	7580					Prod tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	319	210	circulated		
4 1/2"	7751	560	3 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
Perforator	7104-08; 7658-62	(3 SPT); 7620-26; (2 SPT)	7514-18; 7493-97	(3 SPT); Frac w/83, 160 gal water, 75,000# sand. Flush w/5040 gallons water. I.R. 35.2 RPM. Max pr 4000#, BDP 2000#, or pr 400-4000#. 2 drops of 12 balls.		

TOOLS USED

Rotary tools were used from _____ feet to 7751 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 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 2,880,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 2556 csg. A.O.F. 3201 MCF/D

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2505	2505	Tan to gry cr-grn ss interbedded w/gry sh.
2505	2594	89	Ojo Alamo ss. White cr-grn s.
2594	3004	410	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3004	3216	212	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3216	3259	43	Pictured Cliffs forms Gry, fine-grn, tight, varicolored soft ss.
3259	4922	1663	Lewis form. Gry, fine-grn, dense sil ss.
4922	4952	30	Cliff House ss. Gry, fine-grn, dense sil ss.
4952	5403	451	Menefee form. Gry, fine-grn s, carb sh & coal.
5403	5592	189	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5592	6523	931	Mancos form. Gry carb sh.
6523	7392	869	Gallup form. Lt gry to brn calc barb micac glauco very fine gry ss w/irreg interbed sh.
7392	7453	61	Greenhorn form. Highly calc gry sh w/thin lmst.
7453	7582	129	Graneros form. Dk gry shale, fossil & carb w/prite incl.
7582	7751	169	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/prite incl thin sh bands clay & shale breaks.