

A blank coordinate grid with x and y axes ranging from -6 to 6. The grid consists of 13 vertical columns and 13 horizontal rows. The origin (0,0) is located at the intersection of the 7th column from the left and the 7th row from the bottom. The x-axis is labeled with integers from -6 to 6, and the y-axis is labeled with integers from -6 to 6.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079367
LEASE OR PERMIT TO PROSPECT 14-08-001-950

14-
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 27-5 Unit Field Blanco State New Mexico
Well No. 13 Sec. 30 T. 27N R. 5W Meridian NMPM County Rio Arriba
Location 990 ft. ~~N.~~ of N Line and 1650 ft. ~~E.~~ W of E Line of Section 30 Elevation 6622'

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.

Date January 31, 1956 Signed
Title Petroleum Engineer

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

Commenced drilling November 17, 1955 Finished drilling December 1, 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from	3360	to	3418 G	No. 4, from	5503	to	5640 G
No. 2, from	4977	to	5108 G	No. 5, from		to	
No. 3, from	5108	to	5503 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	Corroded		Purpose
							From	To	
9 5/8"	25.4#	P.E.	S.W.	160'	Howco				Surface
7"	20#	8 RD	J-55	3434'	Baker				Intermediate
5 1/2"	15.50#	8 RD	J-55	5662'	Baker				Prod. Gas.
2"	4.7#	8 RD	J-55	5577'					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"	173'	125	Circulated		
7"	3444'	250	Single Stage		
5 1/2"	5672'	300	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
		See well history.				

TOOLS USED

Gas Drilled

Rotary tools were used from 0 feet to 3444 feet, and from 3444 feet to 5672 feet.

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

DATES

December 20 1955 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 **2,039,000**..... Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. -----1003-----

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	670	670	Tan cr-grn ss w/thin sh breaks.
670	900	230	Variegated sh w/thin ss breaks.
900	2765	1865	Tan to gry cr-grn ss interbedded w/gry sh.
2765	2864	99	Ojo Alamo ss. White cr-grn s.
2864	3162	298	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3162	3360	198	Fruitland form. Gry carbh sh, scattered coals coals and gry, tight, fine-grn ss.
3360	3418	58	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3418	4977	1559	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4977	5108	131	Cliff House ss. Gry, fine-grn, dense sil ss.
5108	5503	395	Menefee form. Gry, fine-grn s, carb sh & coal.
5503	5640	137	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5640	5672 T.D.	32	Mancos formation. Gry carb sh.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
5476	5485	9	Point Lookout formation through perforated intervals 5476-5485, 5502-5516, 5522-5534, 5576-5597, & 5605-5624 (4 holes/ft.) with 61,500 gallons water and 60,000# sand. Breakdown pressure 1500 psi, maximum treating pressure 1700 psi, average treating pressure 1,500 psi. Average injection rate 53 bbls./min. Flush 7000 gallons water. No gases natural.
5485	5490	5	
5490	5495	5	
5495	5500	5	
5500	5502	2	
5502	5516	14	
5516	5522	6	
5522	5534	12	
5534	5576	42	
5576	5597	21	
5597	5605	8	
5605	5624	19	
5624	5630	6	
5630	5640	10	
5640	5650	10	
5650	5660	10	
5660	5670	10	
5670	5680	10	
5680	5690	10	
5690	5700	10	
5700	5710	10	
5710	5720	10	
5720	5730	10	
5730	5740	10	
5740	5750	10	
5750	5760	10	
5760	5770	10	
5770	5780	10	
5780	5790	10	
5790	5800	10	
5800	5810	10	
5810	5820	10	
5820	5830	10	
5830	5840	10	
5840	5850	10	
5850	5860	10	
5860	5870	10	
5870	5880	10	
5880	5890	10	
5890	5900	10	
5900	5910	10	
5910	5920	10	
5920	5930	10	
5930	5940	10	
5940	5950	10	
5950	5960	10	
5960	5970	10	
5970	5980	10	
5980	5990	10	
5990	6000	10	
6000	6010	10	
6010	6020	10	
6020	6030	10	
6030	6040	10	
6040	6050	10	
6050	6060	10	
6060	6070	10	
6070	6080	10	
6080	6090	10	
6090	6100	10	
6100	6110	10	
6110	6120	10	
6120	6130	10	
6130	6140	10	
6140	6150	10	
6150	6160	10	
6160	6170	10	
6170	6180	10	
6180	6190	10	
6190	6200	10	
6200	6210	10	
6210	6220	10	
6220	6230	10	
6230	6240	10	
6240	6250	10	
6250	6260	10	
6260	6270	10	
6270	6280	10	
6280	6290	10	
6290	6300	10	
6300	6310	10	
6310	6320	10	
6320	6330	10	
6330	6340	10	
6340	6350	10	
6350	6360	10	
6360	6370	10	
6370	6380	10	
6380	6390	10	
6390	6400	10	
6400	6410	10	
6410	6420	10	
6420	6430	10	
6430	6440	10	
6440	6450	10	
6450	6460	10	
6460	6470	10	
6470	6480	10	
6480	6490	10	
6490	6500	10	
6500	6510	10	
6510	6520	10	
6520	6530	10	
6530	6540	10	
6540	6550	10	
6550	6560	10	
6560	6570	10	
6570	6580	10	
6580	6590	10	
6590	6600	10	
6600	6610	10	
6610	6620	10	
6620	6630	10	
6630	6640	10	
6640	6650	10	
6650	6660	10	
6660	6670	10	
6670	6680	10	
6680	6690	10	
6690	6700	10	
6700	6710	10	
6710	6720	10	
6720	6730	10	
6730	6740	10	
6740	6750	10	
6750	6760	10	
6760	6770	10	
6770	6780	10	
6780	6790	10	
6790	6800	10	
6800	6810	10	
6810	6820	10	
6820	6830	10	
6830	6840	10	
6840	6850	10	
6850	6860	10	
6860	6870	10	
6870	6880	10	
6880	6890	10	
6890	6900	10	
6900	6910	10	
6910	6920	10	
6920	6930	10	
6930	6940	10	
6940	6950	10	
6950	6960	10	
6960	6970	10	
6970	6980	10	
6980	6990	10	
6990	7000	10	

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.

12-8-55 T.D. 5672'. Cleanout depth 5624'.

Water fractured Point Lookout formation through perforated intervals 5476-5485, 5502-5516, 5522-5534, 5576-5597, & 5605-5624 (4 holes/ft.) with 61,500 gallons water and 60,000# sand. Breakdown pressure 1500 psi, maximum treating pressure 1700 psi, average treating pressure 1,500 psi. Average injection rate 53 bbls./min. Flush 7000 gallons water. No gases natural.

12-9-55. T.D. 5672'. Temporary bridge plug at 5450'.

Water fractured Menefee formation through perforated intervals 5216-5226, 5266-5277, 5364-5375, & 5382-5402 (4 holes/ft.) with 55,700 gallons water and 55,000# sand. Breakdown pressure none, maximum and average treating pressure 2250 psi, Average injection rate 41.5 bbls/min. Flush 6400 gallons. Natural gage TSTM. Menefee gaged 40 MCF/D 26 hours after treatment.

OK OK CYS EVIDS OK ROMER

The following is a summary of the work done on this well from the time it was first drilled to the present. It is intended to give a complete history of the well, including all work done on it, and the results of that work. It is to be used as a guide in the future, and should be kept up to date as work is done on the well.

DATE	DESCRIPTION OF WORK	RESULTS
12-8-55	Cleanout depth 5624'.	
12-9-55	Temporary bridge plug at 5450'.	
	Water fractured Menefee formation through perforated intervals 5216-5226, 5266-5277, 5364-5375, & 5382-5402 (4 holes/ft.) with 55,700 gallons water and 55,000# sand. Breakdown pressure none, maximum and average treating pressure 2250 psi, Average injection rate 41.5 bbls/min. Flush 6400 gallons. Natural gage TSTM. Menefee gaged 40 MCF/D 26 hours after treatment.	

LOG OF OIL OR GAS WELL

DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASH. D. C.

WELL NO. 12-8-55
T.D. 5672'
C. 5624'