

Santa Fe

U. S. LAND OFFICE

SERIAL NUMBER

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 Wildcat State New Mexico
Well No. 12 Sec. 17 T. 28N R. 7W Meridian NMPM County Rio Arriba
Location 1480 ft. N of S Line and 1150 ft. E of W Line of Section 17 Elevation 6741
(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 School Phulema Title Petroleum Engineer
Date August 20, 1954

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

Commenced drilling May 26, 1954 Finished drilling July 10, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4978 to 5195 (G)
No. 2, from 5195 to 5544 (G)
No. 3, from 5544 to 5710 (G)
No. 4, from 5710 to 7625
No. 5, from 7625 to 7852 (G)
No. 6, from 7852 to 7960

IMPORTANT WATER SANDS

No. 1, from 4978 to 5195
No. 2, from 5195 to 5544
No. 3, from 5544 to 5710
No. 4, from 5710 to 7625
No. 5, from 7625 to 7852
No. 6, from 7852 to 7960

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Clus and pulled from	Perforations	Purpose
13 3/8	48	8 RD	Spang	164	Howco			Surface
9 5/8	36	8 RD	Spang	3417	Howco			Intermediate
7	24	8 RD	Spang	1009	Howco			Production
2	4.7	8 RD	Youngstown	9261	Howco			Prod. Tbg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	176	125	Circulated		
9 5/8	3427	200	Single Stage		
7	4917	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
		Sand-Oil, See Well History				

TOOLS USED

Gas Drilling

Rotary tools were used from 0 feet to 3427 feet, and from 3427 feet to 7960 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

July 17, 1954 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 1,020,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1068

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	720	720	Tan cr-grn ss w/thin sh breaks.
720	1390	670	Variegated sh w/thin ss breaks.
1390	2426	1036	Tan to gry cr-grn ss interbedded w/gry sh.
2426	2566	140	Ojo Alamo ss. white cr-grn s.
2566	3037	471	Kirtland formation. Gry sh interbedded w/tight gry fin-grn ss.
3037	3347	310	Fruitland formation. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3347	3405	58	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss.
3405	4978	1573	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4978	5195	217	Cliff House ss. Gry, fine-grn, dense sil ss.
5195	5544	349	Menefee formation. Gry, fine-grn s, carb sh & coal.
5544	5710	166	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.
5710	7527	1817	Mancos formation. Gry carb sh.
7527	7596	69	Highly calcareous gry. shale w/thin limestone laminations. Green horn formation.
7596	7625	29	Graneros formation. Dk. gry shale, fossil & carb w/pyrite incl.
7625	7852	227	Dakota formation. Lt. to dk. gry. foss. carb sl. calc. sl. silty ss. w/pyrite incl. thin sh. bands clay & shale breaks.
7852	7960	108	Tops
7960	7960	0	Ojo Alamo 2426 Menefee 5195
			Kirtland 2566 Point Lookout 5544
			Fruitland 3037 Mancos 3405
			Pictured Cliffs 3347 Greenhorn 3405
			Cliff House 4978 Graneros 7596
			Dakota 7625

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[illegible]

Commenced drilling _____ 19____
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OIL OR GAS SANDS OR ZONES

The well was drilled to a total depth of 7660' and the Dakota formation was found non productive. On 7-10-54 a 2 1/2" diameter interval 7575' - 7660' tested depth 7575' - 7660' was drilled. On 7-11-54 set Baker Model C-65 cast iron bridge plug at 5000' and 1000' cement was dropped on top of plug. Top cement at 5169'. Ran 4901' of 1 1/2" 1-55 casing set at 4917'. With 150 sacks regular cement and 150 sacks Formix. No. 8 from 4917' to 5000'.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of prospecting, 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 the size and location. If the well has been dynamited, give date, size, position, and number of shots. If drugs or bridges were put in to rest the water, state kind of material used, position, and results of pumping or falling of shaft.

HISTORY OF OIL OR GAS WELL

[illegible]

PLUGS AND ADAPTERS

Leaving ship—Material	Length	Depth sea
Adaptations—Material	Size	

SHOOTING RECORD

Size	Spill used	Leakage used	Quantity	Date	Depth shed	Depth cleaned out

TOOLS USED

1991	to 1991	from 1991	to 1991	from 1991
1991	to 1991	from 1991	to 1991	from 1991

DATES

It was well, on ft. per 24 hours emulsion; and _____ The production for the first 24 hours was _____	Put to producing _____ parcels of fluid of which _____ Gravity, _____ Gallons gasoline per 1,000 cu. ft. of gas _____
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EMPLOYEES

	Driller	
	Driller	

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued