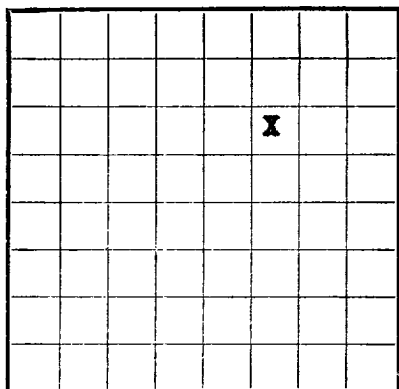


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078389-A
LEASE OR PERMIT TO PROSPECT 14-08-001-569



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 30-9 Unit Field Blanco State New Mexico
Well No. 14 Sec. 11 T. 31N R. 10W Meridian N.M. County San Juan
Location 1650 ft. N of N Line and 1735 ft. E of E Line of Section 11 Elevation 6187
(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 Michael Schuler
Date June 11, 1956 Title Petroleum Engineer

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

Commenced drilling February 23, 19 56 Finished drilling March 13, 19 56

OIL OR GAS SANDS OR ZONES

No. 1, from 3025 to 3025 (0) No. 4, from 5239 to 5355 (0)
No. 2, from 4822 to 4912 (0) No. 5, from _____ to _____
No. 3, from 4912 to 5239 (0) 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
9 5/8"	25.4	8.0	SAF	163'	Reamer	Surface		Surface
7"	20.4	8.0	SAF	3175'	Reamer	Intermediate		Intermediate
5 1/2"	15.2	8.0	SAF	5450'	Reamer	Production		Production
2"	4.7	8.0	SAF	1036'	Reamer	Production		Production

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"	3175'	250	Single Stage		
5 1/2"	5450'	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

Rotary tools were used from 0 feet to 3175 feet, and from 3175 feet to 5450 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 26, 1956, 19 _____ Put to producing _____, 19 _____

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment.

If gas well, cu. ft. per 24 hours 22,396,000 Gravity 60.35 °Bé
Gallons gasoline per 1,000 cu. ft. of gas 1036

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2090	2090	Tan to gry cr-grn ss interbedded w/gry sh.
2090	2293	203	Ojo Alamo ss. White cr-grn s.
2293	2597	304	Kirtland form. Gry sh interbedded v/tight gry fine-grn ss.
2597	3025	428	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3025	3215	190	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3215	4822	1607	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4822	4912	90	Cliff House ss. Gry, fine-grn, dense sil ss.
4912	5239	327	Menashee form. Gry, fine-grn s, carb sh & coal.
5239	5355	116	Point Lookout form. Gry, very fine sil ss v/frequent sh breaks.
5355	5450 T.D.	95	Mancos formation. Gry carb sh.

GEOLOGICAL SURVEY

THE OIL OR GAS WELL

LOCATE WITH CORRECTION

[illegible]

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 anything was "detached," or fell in the well, give the 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.

3-21-56 I.D. 5426'. Water fractured Lower Point Lookout part. Intervals 5306-5380, average pressure 2850#, maximum pressure 2950#, injection rate 39 bbls./min. Flush 5400 gallons.

CASING RECORD

3-21-56 I.D. 5426'. Water fractured Lower Point Lookout part. Int. 5306-5380, maximum pressure 1650#, average working pressure 1500#. Injection rate 40 bbls./min. Flush 5400 gallons.

IMPORTANT WATER SANDS

3-21-56 I.D. 5255'. Water traced Upper Point Lookout part. Int. 5196-5216 with 58,000 gallons water. Maximum pressure 2000#, average treating pressure 2000#, injection rate 48 1/4 bbls./min. Flush 5216 gallons.

No. 8 from

3-22-56 I.D. 5095'. Water traced Upper Point Lookout part. Int. 5196-5216 with 56,600 gallons water port. Int. 5196-5216. Average pressure 2500#, maximum pressure 2700#, average treating pressure 2500#. Injection rate 40 bbls./min. Flush 5400 gallons.

Completed drilling

3-23-56 I.D. 4701'. Water traced Lower Point Lookout part. Int. 4905-4915, 4885-4895 with 58,800 gallons water. HSE 2200#, max. pr. 2200#, avg. tr. pr. 1700#. Injec-tion rate 46.5 bbls./min. Flush 4900 gallons.

Signed _____ Title _____ Retired Engineer

3-23-56 I.D. 4970'. Water traced Lower Point Lookout part. Int. 4905-4915, 4885-4895 with 66,800 gal. water at 51,000# sand. Max. pr. 52,000#, avg. tr. pr. 2800#, max. pr. 2800#. Injection rate 46 bbls./min. Flush 5000 gallons.

Location _____ Time of _____ Elevation _____

V-23-56 I.D. 4810'. Water traced Upper Point Lookout part. Int. 4826-4846 with 58,800 gallons water & 55,000# sand. Max. pr. 55,000#, avg. tr. pr. 2000#. Injec-tion rate 46.5 bbls./min. Flush 5000 gallons.

Company _____ Address _____

HISTORY OF OIL OR GAS WELL

SLUDDING AND CEMENTING RECORD

Mo- neth	Where of	Number sacks of cement	Blotted used	Hand gravity	Amount of mud used
1915	11	100	100		
1915	11	100	100		
1915	11	100	100		

[illegible]

010 49 CARTOONS

bio (snash) rigoff	snash rigoff	snash	snash	snash	snash	snash	snash

TOOLS USED

feet to	most bare feet	feet to	most bare feet	feet to	most bare feet
feet to	most bare feet	feet to	most bare feet	feet to	most bare feet

ESTAO

11 gas well, cu. ft. per 24 hours	25,000
emulsion; % water; and % sediment	0
The production for the first 24 hours was	0
but no production	0

SEE OTHERS

Driller	Driller
Driller	Driller

FORMATION RECORD

FORMATION	TOTAL FEET	TO-	FROM-
100 ft. of gray to white sandstone (100 ft.)	100	0	0
50 ft. of white sandstone (50 ft.)	50	50	150
50 ft. of white sandstone (50 ft.)	50	100	200
50 ft. of white sandstone (50 ft.)	50	150	250
50 ft. of white sandstone (50 ft.)	50	200	300
50 ft. of white sandstone (50 ft.)	50	250	350
50 ft. of white sandstone (50 ft.)	50	300	400
50 ft. of white sandstone (50 ft.)	50	350	450
50 ft. of white sandstone (50 ft.)	50	400	500
50 ft. of white sandstone (50 ft.)	50	450	550
50 ft. of white sandstone (50 ft.)	50	500	600
50 ft. of white sandstone (50 ft.)	50	550	650
50 ft. of white sandstone (50 ft.)	50	600	700
50 ft. of white sandstone (50 ft.)	50	650	750
50 ft. of white sandstone (50 ft.)	50	700	800
50 ft. of white sandstone (50 ft.)	50	750	850
50 ft. of white sandstone (50 ft.)	50	800	900
50 ft. of white sandstone (50 ft.)	50	850	950
50 ft. of white sandstone (50 ft.)	50	900	1000

FORMATION RECORD—Continued