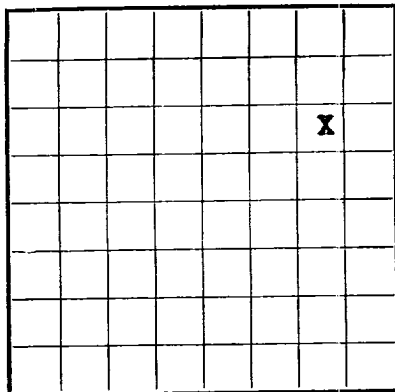




LOCATE WELL CORRECTLY



UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078438
LEASE OR PERMIT TO PROSPECT ☒

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 32-9 Unit Field Blanco State New Mexico
Well No. 16 Sec. 8 T. 31N R. 9W Meridian NMPM County San Juan
Location 1650 ft. N of N Line and 990 ft. W of E Line of Section 8 Elevation 6760'
(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 Lawell N. Walsh Title Petroleum Engineer
Date April 15, 1954

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

Commenced drilling February 8, 1954 Finished drilling March 26, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3622 to 3682 (G) No. 4, from 5870 to 5985 (G)
No. 2, from 5475 to 5560 (G) No. 5, from 5560 to 5870 (G)
No. 3, from 5560 to 5870 (G) No. 6, from 5870 to 5985 (G)

IMPORTANT WATER SANDS

No. 1, from 5870 to 5985 (G) No. 3, from 5870 to 5985 (G)
No. 2, from 5870 to 5985 (G) No. 4, from 5870 to 5985 (G)

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	25.4	Spiral Weld	Armco	161'	Armco				Surface
7	20	8	Spang	3565					Prod. Csg.
2"	4.7	8	Natl.	5970			5873	5903	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	5445	500	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
						5985'
			See History			

TOOLS USED

Rotary tools were used from 0 feet to 5445 feet, and from 5445 feet to 5985 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 29, 1954 Put to producing February 4, 1954

The production for the first 24 hours was _____ barrels of fluid of which 7 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 3,490,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1064

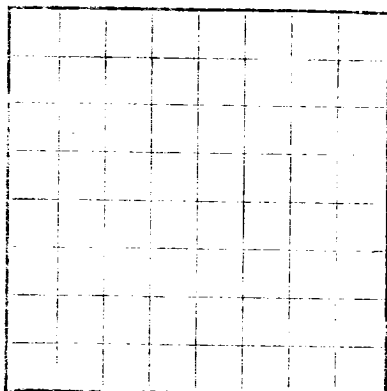
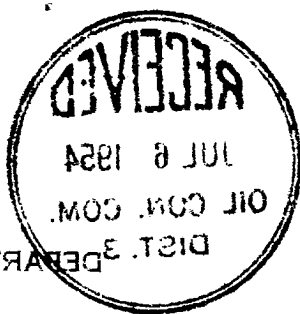
EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1213	1213	Tan cr-grn ss w/thin sh breaks.
1213	2066	853	Variegated sh w/thin ss breaks.
2066	2820	754	Tan to gry cr-grn ss interbedded w/gry sh.
2820	2882	62	Ojo Alamo ss. White cr-grn s.
2882	3195	313	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss.
3195	3622	427	Fruitland formation. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3622	3682	60	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss.
3682	5475	1793	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5475	5560	85	Cliff House ss. Gry, fine-grn, dense sil ss.
5560	5870	310	Menefee formation. Gry, fine-grn s, carb sh and coal.
5870	5985	115	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.
			Mancos formation. Gry carb sh.

(OVER)



UNITED STATES
DIST. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company _____
Lessor or Trust _____
Well No. _____
Location _____
The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.
Signed _____
Date _____

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

Commenced drilling _____ finished drilling _____ 19__

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1 from _____ to _____
before sand-oil 400 M.F. Gage 30 hours after treatment 3,010 M.F. Gage
2100#. Injection rate 5.5 barrels per minute. Flushed with 51 barrels oil. Gage
station 1000#. Breakdown pressure 1900#. Maximum pressure
Set Baker Model "K" Retainer at 5810. Treated point lookout formation with 11,300
March 27, 1924. Total depth 5985. Retainer at 5810. - 5985.
No. 2 from _____ to _____
Gage 19 1/2 hours after treatment 1860 M.F.
rate 5 barrels per minute. Flushed with 60 barrels oil. Natural Gage 280 M.F. Injection
oil and 8,000# sand. Breakdown pressure 1300#. Maximum pressure 2400#. Injection
Set Hovey H.W. Tool at 5413. Treated Cliff House with 9,800 gallons #2 diesel
March 28, 1924. Total depth 5591. Retainer at 5413. - 5591.

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 logs or bridges were put in to test for water, state kind of material used, position, and results of pumping or falling.

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Casing size	Water used	Number sacks of cement	Method used	Mud gravity	Amount of cement used

PLUGS AND ADAPTERS

Heavy plug—Material	Length	Depth set

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	First shot	Depth desired and

TOOLS USED

Rotary tools were used from _____ foot to _____ foot and from _____ foot to _____ foot.
Cable tools were used from _____ foot to _____ foot and from _____ foot to _____ foot.

DATES

The production for the first 24 hours was _____ barrels of oil of which _____ was oil.
emulsion; _____ water; and _____ sediment.
If gas well, gas per 24 hours _____.
Rock pressure, lbs. per sq. in. _____.

EMPLOYEES

Driller _____
Driller _____
Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	100	100	Tan or gray sh. with sh. breaks.
100	200	200	Very hard sh. with sh. breaks.
200	300	300	Tan or gray sh. with sh. breaks.
300	400	400	Gray sh. with sh. breaks.
400	500	500	Gray sh. with sh. breaks.
500	600	600	Gray sh. with sh. breaks.
600	700	700	Gray sh. with sh. breaks.
700	800	800	Gray sh. with sh. breaks.
800	900	900	Gray sh. with sh. breaks.
900	1000	1000	Gray sh. with sh. breaks.
1000	1100	1100	Gray sh. with sh. breaks.
1100	1200	1200	Gray sh. with sh. breaks.
1200	1300	1300	Gray sh. with sh. breaks.
1300	1400	1400	Gray sh. with sh. breaks.
1400	1500	1500	Gray sh. with sh. breaks.
1500	1600	1600	Gray sh. with sh. breaks.
1600	1700	1700	Gray sh. with sh. breaks.
1700	1800	1800	Gray sh. with sh. breaks.
1800	1900	1900	Gray sh. with sh. breaks.
1900	2000	2000	Gray sh. with sh. breaks.
2000	2100	2100	Gray sh. with sh. breaks.
2100	2200	2200	Gray sh. with sh. breaks.
2200	2300	2300	Gray sh. with sh. breaks.
2300	2400	2400	Gray sh. with sh. breaks.
2400	2500	2500	Gray sh. with sh. breaks.
2500	2600	2600	Gray sh. with sh. breaks.
2600	2700	2700	Gray sh. with sh. breaks.
2700	2800	2800	Gray sh. with sh. breaks.
2800	2900	2900	Gray sh. with sh. breaks.
2900	3000	3000	Gray sh. with sh. breaks.
3000	3100	3100	Gray sh. with sh. breaks.
3100	3200	3200	Gray sh. with sh. breaks.
3200	3300	3300	Gray sh. with sh. breaks.
3300	3400	3400	Gray sh. with sh. breaks.
3400	3500	3500	Gray sh. with sh. breaks.
3500	3600	3600	Gray sh. with sh. breaks.
3600	3700	3700	Gray sh. with sh. breaks.
3700	3800	3800	Gray sh. with sh. breaks.
3800	3900	3900	Gray sh. with sh. breaks.
3900	4000	4000	Gray sh. with sh. breaks.
4000	4100	4100	Gray sh. with sh. breaks.
4100	4200	4200	Gray sh. with sh. breaks.
4200	4300	4300	Gray sh. with sh. breaks.
4300	4400	4400	Gray sh. with sh. breaks.
4400	4500	4500	Gray sh. with sh. breaks.
4500	4600	4600	Gray sh. with sh. breaks.
4600	4700	4700	Gray sh. with sh. breaks.
4700	4800	4800	Gray sh. with sh. breaks.
4800	4900	4900	Gray sh. with sh. breaks.
4900	5000	5000	Gray sh. with sh. breaks.
5000	5100	5100	Gray sh. with sh. breaks.
5100	5200	5200	Gray sh. with sh. breaks.
5200	5300	5300	Gray sh. with sh. breaks.
5300	5400	5400	Gray sh. with sh. breaks.
5400	5500	5500	Gray sh. with sh. breaks.
5500	5600	5600	Gray sh. with sh. breaks.
5600	5700	5700	Gray sh. with sh. breaks.
5700	5800	5800	Gray sh. with sh. breaks.
5800	5900	5900	Gray sh. with sh. breaks.
5900	6000	6000	Gray sh. with sh. breaks.
6000	6100	6100	Gray sh. with sh. breaks.
6100	6200	6200	Gray sh. with sh. breaks.
6200	6300	6300	Gray sh. with sh. breaks.
6300	6400	6400	Gray sh. with sh. breaks.
6400	6500	6500	Gray sh. with sh. breaks.
6500	6600	6600	Gray sh. with sh. breaks.
6600	6700	6700	Gray sh. with sh. breaks.
6700	6800	6800	Gray sh. with sh. breaks.
6800	6900	6900	Gray sh. with sh. breaks.
6900	7000	7000	Gray sh. with sh. breaks.
7000	7100	7100	Gray sh. with sh. breaks.
7100	7200	7200	Gray sh. with sh. breaks.
7200	7300	7300	Gray sh. with sh. breaks.
7300	7400	7400	Gray sh. with sh. breaks.
7400	7500	7500	Gray sh. with sh. breaks.
7500	7600	7600	Gray sh. with sh. breaks.
7600	7700	7700	Gray sh. with sh. breaks.
7700	7800	7800	Gray sh. with sh. breaks.
7800	7900	7900	Gray sh. with sh. breaks.
7900	8000	8000	Gray sh. with sh. breaks.
8000	8100	8100	Gray sh. with sh. breaks.
8100	8200	8200	Gray sh. with sh. breaks.
8200	8300	8300	Gray sh. with sh. breaks.
8300	8400	8400	Gray sh. with sh. breaks.
8400	8500	8500	Gray sh. with sh. breaks.
8500	8600	8600	Gray sh. with sh. breaks.
8600	8700	8700	Gray sh. with sh. breaks.
8700	8800	8800	Gray sh. with sh. breaks.
8800	8900	8900	Gray sh. with sh. breaks.
8900	9000	9000	Gray sh. with sh. breaks.
9000	9100	9100	Gray sh. with sh. breaks.
9100	9200	9200	Gray sh. with sh. breaks.
9200	9300	9300	Gray sh. with sh. breaks.
9300	9400	9400	Gray sh. with sh. breaks.
9400	9500	9500	Gray sh. with sh. breaks.
9500	9600	9600	Gray sh. with sh. breaks.
9600	9700	9700	Gray sh. with sh. breaks.
9700	9800	9800	Gray sh. with sh. breaks.
9800	9900	9900	Gray sh. with sh. breaks.
9900	10000	10000	Gray sh. with sh. breaks.