

U. S. LAND OFFICE Santa FeSERIAL NUMBER 076521-A

LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FEB 13 1952

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Howell Field Blanco-La Plata State New Mexico
Well No. 2-1 Sec. 1 T. 30N R. 8W Meridian N.M.P.M. County San Juan
Location 990 ft. ^(N.) of 3 Line and 990 ft. ^(E.) of 1 Line of Section 1 Elevation 6875
(Derives 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 E. J. COELDate February 5, 1952Title Petroleum Engineer

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

Commenced drilling November 14, 1951 Finished drilling January 12, 1952

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5023 to 5225 (G) No. 4, from _____ to _____
No. 2, from 5225 to 5531 (G) No. 5, from _____ to _____
No. 3, from 5531 to 5695 (G) No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 395 to 320 No. 3, from 920 to 940
No. 2, from 820 to 835 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"	36	8	Int'l.	260	MONCO				Surface
5-1/2"	21	8	Int'l.	1000	MONCO				Production
2	4.7	8	Young	5706	HUSLOKA OIL OIL OK CV2 WELT				Producing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	273	150	Circulated		
5-1/2"	4895	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

TOOLS USED

Rotary tools were used from 0 feet to 4895 feet, and from 4895 feet to 5715 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

February 1, 1952 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 2,180,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 1113

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	995	995	Tan coarse-grained ss. w/thin shale breaks.
995	1305	310	Variegated shales w/thin sandstone breaks.
1305	1925	620	Tan to gray coarse-grained ss. interbedded w/gray shales.
1925	2000	75	Ojo Alamo ss. White coarse-grained sand. Top Ojo Alamo 1925.
2000	2580	580	Kirtland fm. Gray shale interbedded w/tight fine-grained ss. Top Kirtland 2000.
2580	3297	717	Fruitland fm. Gray carb. shales, scattered coals & gray, tight, fine-grained ss. Top Fruitland 2580.
3297	3405	108	Pictured Cliffs fm. Gray, fine-grained, tight, varicolored soft ss. Top Pictured Cliffs 3297.
3405	5023	1618	Lewis fm. Gray to white dense shale w/silty to shaly sandstone breaks. Top Lewis 3405.
5023	5225	202	Cliff House ss. Gray, fine-grained, dense sil. ss. Top Cliff House 5023.
5225	5531	306	Maneefee fm. Gray, fine-grained sands, carb. shales & coal. Top Maneefee 5225.
5531	5695	164	Point Lookout fm. Gray, very fine sil. ss. w/frequent shale breaks. Top Point Lookout 5531.
5695	5715 T.D.	20	Mancos fm. Gray carb. shale. Top Mancos 5695.

FROM— TO— TOTAL FEET (OVER) LOWRY CORP. 16-43094-2

LOWRY CORP. RECORD—COMPARISON

Geological Survey, Washington, D. C. 20540
This form is to be filled out by the driller or operator of the well. It should be filled out as the well is drilled, and should be filled out as the well is completed. It should be filled out as the well is abandoned. It should be filled out as the well is reworked. It should be filled out as the well is plugged. It should be filled out as the well is abandoned. It should be filled out as the well is reworked. It should be filled out as the well is plugged. It should be filled out as the well is abandoned.

ORIGINAL SIGNED E. J. COEL
No. 1, from 0 to 100 feet
No. 2, from 100 to 200 feet
No. 3, from 200 to 300 feet
No. 4, from 300 to 400 feet
No. 5, from 400 to 500 feet
No. 6, from 500 to 600 feet
No. 7, from 600 to 700 feet
No. 8, from 700 to 800 feet
No. 9, from 800 to 900 feet
No. 10, from 900 to 1000 feet

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 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.

HISTORY OF OIL OR GAS WELL

DATE	DESCRIPTION	TO	FROM
1948-10-15	Drilled 100 feet	0	100
1948-10-20	Drilled 100 feet	100	200
1948-10-25	Drilled 100 feet	200	300
1948-11-01	Drilled 100 feet	300	400
1948-11-05	Drilled 100 feet	400	500
1948-11-10	Drilled 100 feet	500	600
1948-11-15	Drilled 100 feet	600	700
1948-11-20	Drilled 100 feet	700	800
1948-11-25	Drilled 100 feet	800	900
1948-12-01	Drilled 100 feet	900	1000
1948-12-05	Drilled 100 feet	1000	1100
1948-12-10	Drilled 100 feet	1100	1200
1948-12-15	Drilled 100 feet	1200	1300
1948-12-20	Drilled 100 feet	1300	1400
1948-12-25	Drilled 100 feet	1400	1500
1949-01-01	Drilled 100 feet	1500	1600
1949-01-05	Drilled 100 feet	1600	1700
1949-01-10	Drilled 100 feet	1700	1800
1949-01-15	Drilled 100 feet	1800	1900
1949-01-20	Drilled 100 feet	1900	2000
1949-01-25	Drilled 100 feet	2000	2100
1949-02-01	Drilled 100 feet	2100	2200
1949-02-05	Drilled 100 feet	2200	2300
1949-02-10	Drilled 100 feet	2300	2400
1949-02-15	Drilled 100 feet	2400	2500
1949-02-20	Drilled 100 feet	2500	2600
1949-02-25	Drilled 100 feet	2600	2700
1949-03-01	Drilled 100 feet	2700	2800
1949-03-05	Drilled 100 feet	2800	2900
1949-03-10	Drilled 100 feet	2900	3000
1949-03-15	Drilled 100 feet	3000	3100
1949-03-20	Drilled 100 feet	3100	3200
1949-03-25	Drilled 100 feet	3200	3300
1949-04-01	Drilled 100 feet	3300	3400
1949-04-05	Drilled 100 feet	3400	3500
1949-04-10	Drilled 100 feet	3500	3600
1949-04-15	Drilled 100 feet	3600	3700
1949-04-20	Drilled 100 feet	3700	3800
1949-04-25	Drilled 100 feet	3800	3900
1949-05-01	Drilled 100 feet	3900	4000
1949-05-05	Drilled 100 feet	4000	4100
1949-05-10	Drilled 100 feet	4100	4200
1949-05-15	Drilled 100 feet	4200	4300
1949-05-20	Drilled 100 feet	4300	4400
1949-05-25	Drilled 100 feet	4400	4500
1949-06-01	Drilled 100 feet	4500	4600
1949-06-05	Drilled 100 feet	4600	4700
1949-06-10	Drilled 100 feet	4700	4800
1949-06-15	Drilled 100 feet	4800	4900
1949-06-20	Drilled 100 feet	4900	5000
1949-06-25	Drilled 100 feet	5000	5100
1949-07-01	Drilled 100 feet	5100	5200
1949-07-05	Drilled 100 feet	5200	5300
1949-07-10	Drilled 100 feet	5300	5400
1949-07-15	Drilled 100 feet	5400	5500
1949-07-20	Drilled 100 feet	5500	5600
1949-07-25	Drilled 100 feet	5600	5700
1949-08-01	Drilled 100 feet	5700	5800
1949-08-05	Drilled 100 feet	5800	5900
1949-08-10	Drilled 100 feet	5900	6000
1949-08-15	Drilled 100 feet	6000	6100
1949-08-20	Drilled 100 feet	6100	6200
1949-08-25	Drilled 100 feet	6200	6300
1949-09-01	Drilled 100 feet	6300	6400
1949-09-05	Drilled 100 feet	6400	6500
1949-09-10	Drilled 100 feet	6500	6600
1949-09-15	Drilled 100 feet	6600	6700
1949-09-20	Drilled 100 feet	6700	6800
1949-09-25	Drilled 100 feet	6800	6900
1949-10-01	Drilled 100 feet	6900	7000
1949-10-05	Drilled 100 feet	7000	7100
1949-10-10	Drilled 100 feet	7100	7200
1949-10-15	Drilled 100 feet	7200	7300
1949-10-20	Drilled 100 feet	7300	7400
1949-10-25	Drilled 100 feet	7400	7500
1949-11-01	Drilled 100 feet	7500	7600
1949-11-05	Drilled 100 feet	7600	7700
1949-11-10	Drilled 100 feet	7700	7800
1949-11-15	Drilled 100 feet	7800	7900
1949-11-20	Drilled 100 feet	7900	8000
1949-11-25	Drilled 100 feet	8000	8100
1949-12-01	Drilled 100 feet	8100	8200
1949-12-05	Drilled 100 feet	8200	8300
1949-12-10	Drilled 100 feet	8300	8400
1949-12-15	Drilled 100 feet	8400	8500
1949-12-20	Drilled 100 feet	8500	8600
1949-12-25	Drilled 100 feet	8600	8700
1950-01-01	Drilled 100 feet	8700	8800
1950-01-05	Drilled 100 feet	8800	8900
1950-01-10	Drilled 100 feet	8900	9000
1950-01-15	Drilled 100 feet	9000	9100
1950-01-20	Drilled 100 feet	9100	9200
1950-01-25	Drilled 100 feet	9200	9300
1950-02-01	Drilled 100 feet	9300	9400
1950-02-05	Drilled 100 feet	9400	9500
1950-02-10	Drilled 100 feet	9500	9600
1950-02-15	Drilled 100 feet	9600	9700
1950-02-20	Drilled 100 feet	9700	9800
1950-02-25	Drilled 100 feet	9800	9900
1950-03-01	Drilled 100 feet	9900	10000
1950-03-05	Drilled 100 feet	10000	10100
1950-03-10	Drilled 100 feet	10100	10200
1950-03-15	Drilled 100 feet	10200	10300
1950-03-20	Drilled 100 feet	10300	10400
1950-03-25	Drilled 100 feet	10400	10500
1950-04-01	Drilled 100 feet	10500	10600
1950-04-05	Drilled 100 feet	10600	10700
1950-04-10	Drilled 100 feet	10700	10800
1950-04-15	Drilled 100 feet	10800	10900
1950-04-20	Drilled 100 feet	10900	11000
1950-04-25	Drilled 100 feet	11000	11100
1950-05-01	Drilled 100 feet	11100	11200
1950-05-05	Drilled 100 feet	11200	11300
1950-05-10	Drilled 100 feet	11300	11400
1950-05-15	Drilled 100 feet	11400	11500
1950-05-20	Drilled 100 feet	11500	11600
1950-05-25	Drilled 100 feet	11600	11700
1950-06-01	Drilled 100 feet	11700	11800
1950-06-05	Drilled 100 feet	11800	11900
1950-06-10	Drilled 100 feet	11900	12000
1950-06-15	Drilled 100 feet	12000	12100
1950-06-20	Drilled 100 feet	12100	12200
1950-06-25	Drilled 100 feet	12200	12300
1950-07-01	Drilled 100 feet	12300	12400
1950-07-05	Drilled 100 feet	12400	12500
1950-07-10	Drilled 100 feet	12500	12600
1950-07-15	Drilled 100 feet	12600	12700
1950-07-20	Drilled 100 feet	12700	12800
1950-07-25	Drilled 100 feet	12800	12900
1950-08-01	Drilled 100 feet	12900	13000
1950-08-05	Drilled 100 feet	13000	13100
1950-08-10	Drilled 100 feet	13100	13200
1950-08-15	Drilled 100 feet	13200	13300
1950-08-20	Drilled 100 feet	13300	13400
1950-08-25	Drilled 100 feet	13400	13500
1950-09-01	Drilled 100 feet	13500	13600
1950-09-05	Drilled 100 feet	13600	13700
1950-09-10	Drilled 100 feet	13700	13800
1950-09-15	Drilled 100 feet	13800	13900
1950-09-20	Drilled 100 feet	13900	14000
1950-09-25	Drilled 100 feet	14000	14100
1950-10-01	Drilled 100 feet	14100	14200
1950-10-05	Drilled 100 feet	14200	14300
1950-10-10	Drilled 100 feet	14300	14400
1950-10-15	Drilled 100 feet	14400	14500
1950-10-20	Drilled 100 feet	14500	14600
1950-10-25	Drilled 100 feet	14600	14700
1950-11-01	Drilled 100 feet	14700	14800
1950-11-05	Drilled 100 feet	14800	14900
1950-11-10	Drilled 100 feet	14900	15000
1950-11-15	Drilled 100 feet	15000	15100
1950-11-20	Drilled 100 feet	15100	15200
1950-11-25	Drilled 100 feet	15200	15300
1950-12-01	Drilled 100 feet	15300	15400
1950-12-05	Drilled 100 feet	15400	15500
1950-12-10	Drilled 100 feet	15500	15600
1950-12-15	Drilled 100 feet	15600	15700
1950-12-20	Drilled 100 feet	15700	15800
1950-12-25	Drilled 100 feet	15800	15900
1951-01-01	Drilled 100 feet	15900	16000
1951-01-05	Drilled 100 feet	16000	16100
1951-01-10	Drilled 100 feet	16100	16200
1951-01-15	Drilled 100 feet	16200	16300
1951-01-20	Drilled 100 feet	16300	16400
1951-01-25	Drilled 100 feet	16400	16500
1951-02-01	Drilled 100 feet	16500	16600
1951-02-05	Drilled 100 feet	16600	16700
1951-02-10	Drilled 100 feet	16700	16800
1951-02-15	Drilled 100 feet	16800	16900
1951-02-20	Drilled 100 feet	16900	17000
1951-02-25	Drilled 100 feet	17000	17100
1951-03-01	Drilled 100 feet	17100	17200
1951-03-05	Drilled 100 feet	17200	17300
1951-03-10	Drilled 100 feet	17300	17400
1951-03-15	Drilled 100 feet	17400	17500
1951-03-20	Drilled 100 feet	17500	17600
1951-03-25	Drilled 100 feet	17600	17700
1951-04-01	Drilled 100 feet	17700	17800
1951-04-05	Drilled 100 feet	17800	17900
1951-04-10	Drilled 100 feet	17900	18000
1951-04-15	Drilled 100 feet	18000	18100
1951-04-20	Drilled 100 feet	18100	18200
1951-04-25	Drilled 100 feet	18200	18300
1951-05-01	Drilled 100 feet	18300	18400
1951-05-05	Drilled 100 feet	18400	18500
1951-05-10	Drilled 100 feet	18500	18600
1951-05-15	Drilled 100 feet	18600	18700
1951-05-20	Drilled 100 feet	18700	18800
1951-05-25	Drilled 100 feet	18800	18900
1951-06-01	Drilled 100 feet	18900	19000
1951-06-05	Drilled 100 feet	19000	19100
1951-06-10	Drilled 100 feet	19100	19200
1951-06-15	Drilled 100 feet	19200	19300
1951-06-20	Drilled 100 feet	19300	19400
1951-06-25	Drilled 100 feet	19400	19500
1951-07-01	Drilled 100 feet	19500	19600
1951-07-05	Drilled 100 feet	19600	19700
1951-07-10	Drilled 100 feet	19700	19800
1951-07-15	Drilled 100 feet	19800	19900
1951-07-20	Drilled 100 feet	19900	20000
1951-07-25	Drilled 100 feet	20000	20100
1951-08-01	Drilled 100 feet	20100	20200
1951-08-05	Drilled 100 feet	20200	20300
1951-08-10	Drilled 100 feet	20300	20400
1951-08-15	Drilled 100 feet	20400	20500
1951-08-20	Drilled 100 feet	20500	20600
1951-08-25	Drilled 100 feet	20600	20700
1951-09-01	Drilled 100 feet	20700	20800
1951-09-05	Drilled 100 feet	20800	20900
1951-09-10	Drilled 100 feet	20900	21000
1951-09-15	Drilled 100 feet	21000	21100
1951-09-20	Drilled 100 feet	21100	21200
1951-09-25	Drilled 100 feet	21200	21300
1951-10-01	Drilled 100 feet	21300	21400
1951-10-05	Drilled 100 feet	21400	21500
1951-10-10	Drilled 100 feet	21500	21600
1951-10-15	Drilled 100 feet	21600	21700
1951-10-20	Drilled 100 feet	21700	21800
1951-10-25	Drilled 100 feet	21800	21900
1951-11-01	Drilled 100 feet	21900	22000
1951-11-05	Drilled 100 feet	22000	22100
1951-11-10	Drilled 100 feet	22100	22200
1951-11-15	Drilled 100 feet	22200	22300
1951-11-20	Drilled 100 feet	22300	22400
1951-11-25	Drilled 100 feet	22400	22500
1951-12-01	Drilled 100 feet	22500	22600
1951-12-05	Drilled 100 feet	22600	22700
1951-12-10	Drilled 100 feet	22700	22800
1951-12-15	Drilled 100 feet	22800	22900
1951-12-20	Drilled 100 feet	22900	23000
1951-12-25	Drilled 100 feet	23000	23100
1952-01-01	Drilled 100 feet	23100	23200
1952-01-05	Drilled 100 feet	23200	23300