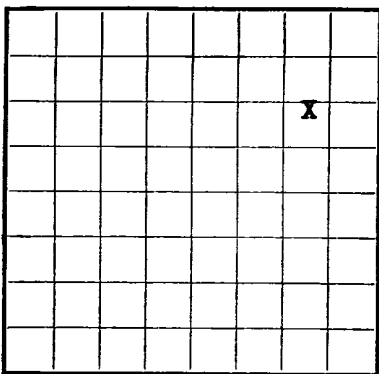


Santa Fe

U. S. LAND OFFICE 079289

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT
14-08-001-459UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYJUL 15 1955
FARMINGTON, NEW MEXICO

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 28-7 Unit Field Blanco State New Mexico
Well No. 24 Sec. 14 T. 28N R. 7W Meridian NMPM County Rio Arriba
Location 1500 ft. N of N Line and 990 ft. E of E Line of Section 14 Elevation 6621'
(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 D. L. Munn Title Petroleum EngineerDate July 8, 1955

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

Commenced drilling May 13, 1955 Finished drilling June 1, 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3370 to 3410 (G) No. 4, from _____ to _____
No. 2, from 5006 to 5194 (G) No. 5, from _____ to _____
No. 3, from 5550 to 5670 (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	Perforated	Purpose
9 5/8"	25.4#	P.E.	S.W.	162'	Howco		From— To—	Surface
7"	23	8 RD	J-55	614'				
7"	20	8 RD	J-55	433'	Baker			Prod. Csg.
2"	4.7	8 RD	J-55	3653'				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"	175'	125	Circulated		
7"	4955'	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
		See Well History.				

TOOLS USED

Gas Drilled

Rotary tools were used from 0 feet to 4955 feet, and from 4955 feet to 5675 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

June 3, 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 3,756,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1046

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1400	1400	Tan cr-grn ss w/thin sh breaks.
1400	2150	750	Variegated sh w/thin ss breaks.
2150	2468	318	Tan to gry cr-grn ss interbedded w/gry sh.
2468	2635	167	Ojo Alamo ss. White cr-grn s.
2635	3120	435	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3120	3370	250	Fruitland form. Gry carb sh scattered coals coals and gry, tight, fine-grn ss.
3370	3410	40	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss
3410	5006	1596	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5006	5194	188	Cliff House ss. Gry, fine-grn, dense sil ss.
5194	5550	356	Menefee form. Gry, fine-grn s, carb sh & coal.
5550	5670	120	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5670	5675	5	Mancos formation. Gry carb sh.

FROM—

TO—

TOTAL FEET

[OVER]

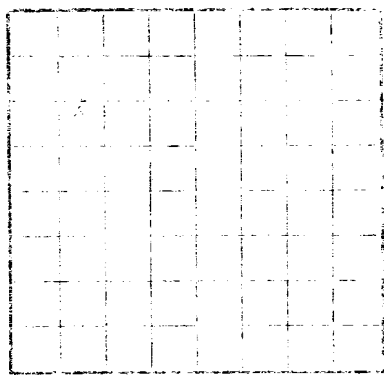
FORMATION

16-48094-3

FORMATION RECORD—CONTINUED

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Location of well, State, County, Township, Range, Section, and other data.
Name of owner, Name of operator, Name of driller, Name of geologist.
Date of completion, Date of log.

OIL OR GAS SANDS OR ZONES

11,400 gallons oil and 10,100# sand. Breakdown pressure 1000#, maximum pressure 1400#. Injection rate 10.3 bbls./min. Natural gas 50 MCF/D.
1300# sand in drill pipe. Natural gas 50 MCF/D.

HISTORY OF OIL OR GAS WELL

FROM	TO	TOTAL FEET	FORMATION
11,400	10,100	1,300	SAND
10,100	9,800	300	SAND
9,800	9,500	300	SAND
9,500	9,200	300	SAND
9,200	8,900	300	SAND
8,900	8,600	300	SAND
8,600	8,300	300	SAND
8,300	8,000	300	SAND
8,000	7,700	300	SAND
7,700	7,400	300	SAND
7,400	7,100	300	SAND
7,100	6,800	300	SAND
6,800	6,500	300	SAND
6,500	6,200	300	SAND
6,200	5,900	300	SAND
5,900	5,600	300	SAND
5,600	5,300	300	SAND
5,300	5,000	300	SAND
5,000	4,700	300	SAND
4,700	4,400	300	SAND
4,400	4,100	300	SAND
4,100	3,800	300	SAND
3,800	3,500	300	SAND
3,500	3,200	300	SAND
3,200	2,900	300	SAND
2,900	2,600	300	SAND
2,600	2,300	300	SAND
2,300	2,000	300	SAND
2,000	1,700	300	SAND
1,700	1,400	300	SAND
1,400	1,100	300	SAND
1,100	800	300	SAND
800	500	300	SAND
500	200	300	SAND
200	0	200	SAND