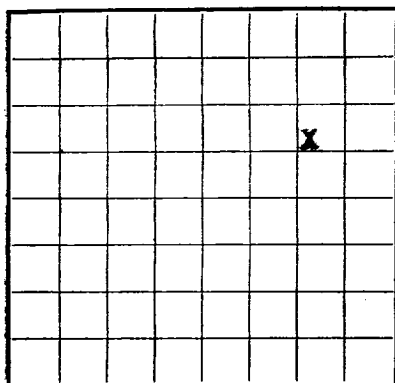
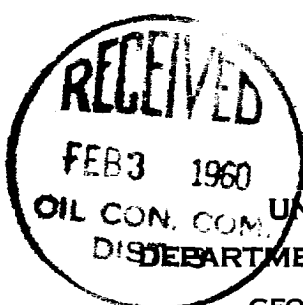




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079761-A
LEASE OR PERMIT TO PRODUCEU. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 29-4 Unit Field Blanco M. V. State New Mexico
Well No. 18-33 Sec. 33 T. 29N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 1500 ft. N of Line and 810 ft. W of E Line of Section 33 Elevation 7375
(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 ORIGINAL SIGNED B.H. MEANS
Date January 29, 1960 Title Petroleum Engineer

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

Commenced drilling 9-36, 19 59 Finished drilling 11-3, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4262 to 4395 (G) No. 4, from 6480 to 6588 (G)
No. 2, from 4395 (G) to 4485 (G) No. 5, from 6588 (G) to 6685 (G)
No. 3, from 4485 (G) to 4585 (G) No. 6, from 6685 (G) to 6785 (G)

IMPORTANT WATER SANDS

No. 1, from 4262 to 4395 (G) No. 3, from 4485 (G) to 4585 (G)
No. 2, from 4395 (G) to 4485 (G) No. 4, from 6480 to 6588 (G)

Casing Record

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
13 3/8	325	8	J-55	250	circulated				Intermediate
9 5/8	4496	8	J-55	170	Single Stage				Prod. Liner
7	2000-8485	8	J-55	470	Single Stage				Prod. Liner
5	8397-8843	8	J-55	50	Single Stage				Prod. Tub.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	325	250	circulated		
9 5/8	4496	170	Single Stage		
7	2000-8485	470	Single Stage		
5	8397-8843	50	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 4496 feet, and from 4496 feet to 8485 feet
Cable tools were used from _____ feet to _____ feet, and from 8485 feet to 8845 feet

DATES

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 1,787,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1043 A.O.F. = 1302 MCF/D

EMPLOYEES

_____, Driller
San Juan Drilling Company, Driller
McKinney Drilling Company, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3647	3647	Tan to gry cr-grn ss interbedded w/gry sh.
3647	3808	161	Ojo Alamo ss. White cr-grn s.
3808	4016	208	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
4016	4262	246	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
4262	4395	133	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
4395	6120	1725	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
6120	6179	59	Cliff House ss. Gry, fine-grn, dense sil ss.
6179	6480	301	Menasie form. Gry, fine-grn s, carb sh & coal.
6480	6588	108	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
6588	7590	1002	Mancos formation. Gry carb sh.
7590	8160	570	Gallup form. Lt gry to brn calc carb micac glassco very fine gry ss w/irreg. interbed sh.
8160	8515	355	Sanabes form. Brk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.
8515	8652	137	Graneros form. Brk gry shales, fossil & carb w/pyrite incl.
8652	8796	144	Dakota form. Lt to dk gry foss carb al calc al silty ss w/pyrite incl thin sh bands clay & shale breaks.
8796	8845	49	Morrison form. Interbed grn brn & red waxy sh & ss to cr-grn ss.

FORMATION RECORD—Continued

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible]

LOCATE WELL CORRECTLY

(Derote q
20402

RECEIVED W/500 GBT. 156 DRAINING RECORD

[illegible]

Year	Number of cases	Number of deaths	Number of recoveries	Number of cases	Number of deaths	Number of recoveries
1900	1,000	100	900	1,000	100	900
1901	1,200	120	1,080	1,200	120	1,080
1902	1,400	140	1,260	1,400	140	1,260
1903	1,600	160	1,440	1,600	160	1,440
1904	1,800	180	1,620	1,800	180	1,620
1905	2,000	200	1,800	2,000	200	1,800
1906	2,200	220	1,980	2,200	220	1,980
1907	2,400	240	2,160	2,400	240	2,160
1908	2,600	260	2,340	2,600	260	2,340
1909	2,800	280	2,520	2,800	280	2,520
1910	3,000	300	2,700	3,000	300	2,700
1911	3,200	320	2,880	3,200	320	2,880
1912	3,400	340	3,060	3,400	340	3,060
1913	3,600	360	3,240	3,600	360	3,240
1914	3,800	380	3,420	3,800	380	3,420
1915	4,000	400	3,600	4,000	400	3,600
1916	4,200	420	3,780	4,200	420	3,780
1917	4,400	440	3,960	4,400	440	3,960
1918	4,600	460	4,140	4,600	460	4,140
1919	4,800	480	4,320	4,800	480	4,320
1920	5,000	500	4,500	5,000	500	4,500
1921	5,200	520	4,680	5,200	520	4,680
1922	5,400	540	4,860	5,400	540	4,860
1923	5,600	560	5,040	5,600	560	5,040
1924	5,800	580	5,220	5,800	580	5,220
1925	6,000	600	5,400	6,000	600	5,400
1926	6,200	620	5,580	6,200	620	5,580
1927	6,400	640	5,760	6,400	640	5,760
1928	6,600	660	5,940	6,600	660	5,940
1929	6,800	680	6,120	6,800	680	6,120
1930	7,000	700	6,300	7,000	700	6,300
1931	7,200	720	6,480	7,200	720	6,480
1932	7,400	740	6,660	7,400	740	6,660
1933	7,600	760	6,840	7,600	760	6,840
1934	7,800	780	7,020	7,800	780	7,020
1935	8,000	800	7,200	8,000	800	7,200
1936	8,200	820	7,380	8,200	820	7,380
1937	8,400	840	7,560	8,400	840	7,560
1938	8,600	860	7,740	8,600	860	7,740
1939	8,800	880	7,920	8,800	880	7,920
1940	9,000	900	8,100	9,000	900	8,100
1941	9,200	920	8,280	9,200	920	8,280
1942	9,400	940	8,460	9,400	940	8,460
1943	9,600	960	8,640	9,600	960	8,640
1944	9,800	980	8,820	9,800	980	8,820
1945	10,000	1,000	9,000	10,000	1,000	9,000
1946	10,200	1,020	9,180	10,200	1,020	9,180
1947	10,400	1,040	9,360	10,400	1,040	9,360
1948	10,600	1,060	9,540	10,600	1,060	9,540
1949	10,800	1,080	9,720	10,800	1,080	9,720
1950	11,000	1,100				

1. Name of the person: _____
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 317.

1991	of 1991	and from	1991	to	from
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19	Put to proofing
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Driller, _____	Driller, _____	
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FROM -	TO -	TOTAL FEET	FORMATION
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FROM-	TO-	TOTAL FEET
0-10	10-20	10
10-20	20-30	20
20-30	30-40	20
30-40	40-50	20
40-50	50-60	20
50-60	60-70	20
60-70	70-80	20
70-80	80-90	20
80-90	90-100	20
90-100	100-110	20
100-110	110-120	20
110-120	120-130	20
120-130	130-140	20
130-140	140-150	20
140-150	150-160	20
150-160	160-170	20
160-170	170-180	20
170-180	180-190	20
180-190	190-200	20
190-200	200-210	20
200-210	210-220	20
210-220	220-230	20
220-230	230-240	20
230-240	240-250	20
240-250	250-260	20
250-260	260-270	20
260-270	270-280	20
270-280	280-290	20
280-290	290-300	20
290-300	300-310	20
300-310	310-320	20
310-320	320-330	20
320-330	330-340	20
330-340	340-350	20
340-350	350-360	20
350-360	360-370	20
360-370	370-380	20
370-380	380-390	20
380-390	390-400	20
390-400	400-410	20
400-410	410-420	20
410-420	420-430	20
420-430	430-440	20
430-440	440-450	20
440-450	450-460	20
450-460	460-470	20
460-470	470-480	20
470-480	480-490	20
480-490	490-500	20
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520-530	530-540	20
530-540	540-550	20
540-550	550-560	20
550-560	560-570	20
560-570	570-580	20
570-580	580-590	20
580-590	590-600	20
590-600	600-610	20
600-610	610-620	20
610-620	620-630	20
620-630	630-640	20
630-640	640-650	20
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670-680	680-690	20
680-690	690-700	20
690-700	700-710	20
700-710	710-720	20
710-720	720-730	20
720-730	730-740	20
730-740	740-750	20
740-750	750-760	20
750-760	760-770	20
760-770	770-780	20
770-780	780-790	20
780-790	790-800	20
790-800	800-810	20
800-810	810-820	20
810-820	820-830	20
820-830	830-840	20
830-840	840-850	20
840-850	850-860	20
850-860	860-870	20
860-870	870-880	20
870-880	880-890	20
880-890	890-900	20
890-900	900-910	20
900-910	910-920	20
910-920	920-930	20
920-930	930-940	20
930-940	940-950	20
940-950	950-960	20
950-960	960-970	20
960-970	970-980	20
970-980	980-990	20
980-990	990-1000	20
990-1000	1000-1010	20
1000-1010	1010-1020	20
1010-1020	1020-1030	20
1020-1030	1030-1040	20
1030-1040	1040-1050	20
1040-1050	1050-1060	20
1050-1060	1060-1070	20
1060-1070	1070-1080	20
1070-1080	1080-1090	20
1080-1090	1090-1100	20
1090-1100	1100-1110	20
1100-1110	1110-1120	20
1110-1120	1120-1130	20
1120-1130	1130-1140	20
1130-1140	1140-1150	20
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1150-1160	1160-1170	20
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1170-1180	1180-1190	20
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1200-1210	1210-1220	20
1210-1220	1220-1230	20
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1380-1390	1390-1400	20
1390-1400	1400-1410	20
1400-1410	1410-1420	20
1410-1420	1420-1430	20
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1430-1440	1440-1450	20
1440-1450	1450-1460	20
1450-1460	1460-1470	20
1460-1470	1470-1480	20
1470-1480	1480-1490	20
1480-1490	1490-1500	20
1490-1500	1500-1510	20
1500-1510	1510-1520	20
1510-1520	1520-1530	20
1520-1530	1530-1540	20
1530-1540	1540-1550	20
1540-1550	1550-1560	20
1550-1560	1560-1570	20
1560-1570	1570-1580	20
1570-1580	1580-1590	20
1580-1590	1590-1600	20
1590-1600	1600-1610	20
1600-1610	1610-1620	20
1610-1620	1620-1630	20
1620-1630	1630-1640	20
1630-1640	1640-1650	20
1640-1650	1650-1660	20
1650-1660	1660-1670	20
1660-1670	1670-1680	20
1670-1680	1680-1690	20
1680-1690	1690-1700	20
1690-1700	1700-1710	20
1700-1710	1710-1720	20
1710-1720	1720-1730	20
1720-1730	1730-1740	20
1730-1740	1740-1750	20
1740-1750	1750-1760	20
1750-1760	1760-1770	20
1760-1770	1770-1780	20
1770-1780	1780-1790	20
1780-1790	1790-1800	20
1790-1800	1800-1810	20
1800-1810	1810-1820	20
1810-1820	1820-1830	20
1820-1830	1830-1840	20
1830-1840	1840-1850	20
1840-1850	1850-1860	20
1850-1860	1860-1870	20
1860-1870	1870-1880	20
1870-1880	1880-1890	20
1880-1890	1890-1900	20
1890-1900	1900-1910	20
1900-1910	1910-1920	20
1910-1920	1920-1930	20
1920-1930	1930-1940	20
1930-1940	1940-1950	20
1940-1950	1950-1960	20
1950-1960	1960-1970	20
1960-1970	1970-1980	20
1970-1980	1980-1990	20
1980-1990	1990-2000	20

FORMATION RECORD—Continued