

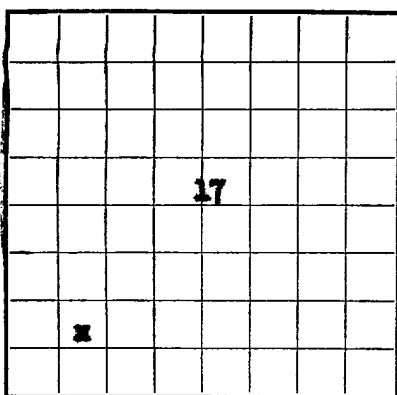
3 - USGS
2 - BUREAU
1 - State Land Office
1 - L. G. Truby
1 - File

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER 87-97894

LEASE OR PERMIT TO PROSPECT 14-08-001-346



LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company PACIFIC PORTLAND PIPELINE CORP. Address 418 1/2 W. Hwy., Farmington, N.M.
Lessor or Tract San Juan 30-5 Unit Field Blanco Mesa Verde State New Mexico
Well No. 24-17 Sec. 17 T. 30N R. 9W Meridian N.M.P.M. County Rio Arriba
Location 890 ft. (N) of Line and 920 ft. (E) of Line of Section 17 Elevation 6409
(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 by L. F. Stone

Date September 19th, 1958

Title Division Manager

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

Commenced drilling August 1st, 1958 Finished drilling August 11th, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 0 5296' to 0 5767' No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None 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 balled	Perforated	Purpose
10-3/4	32.75	8rd	Rep.	182.13	Tex. Pat.			
7-5/8	21.30	8rd	Rep.	112.08	Tex. Pat.			
5-1/2	15.50	8rd	Rep.	112.08	Tex. Pat.			
5-1/2	15.50	8rd	Rep.	112.08	Tex. Pat.			
1-1/4	2.4	10rd	Yagatom	5724.94	TUBING			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	194.13	200	Pump Plug		
7-5/8	3525.00	200	Pump Plug		
5-1/2	5785.00	200	Pump Plug		

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 5785' feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

August 14th, 1958 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 4,383.000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1108# 1202# CAOF 4,738 MCF/D
Start in 11 days

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2516'	2516'	Surface
2516'	2590'	74'	Ojo Alamo
2590'	2972'	382'	Kirtland
2972'	3214'	242'	Fruitland
3214'	3440'	226'	Pictured Cliffs
3440'	5284'	1844'	Lewis
5284'	5340'	56'	Cliff House
5340'	5576'	236'	Mesefee
5576'	5785'	209'	Point Lookout
5785'			Total Depth
5783'			Plug Back Total Depth

FORMATION RECORD—Continued

1-59-101-345
 LEASE OR PERMIT TO PROSPECT
 SERIAL NUMBER 34-076-345
 U. S. LAND OFFICE
 BUREAU OF LAND MANAGEMENT
 DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Date November 19th, 1928
 Title Division Engineer
 Original signed by L. F. Stone
 The information given herewith is a complete and correct record of the well and all work done thereon
 Location 600 ft. of a line and 230 ft. of a line of section 17
 Well No. 24-17 Sec. 17, T. 30N R. 32W Meridian
 Lessor or Tract San Juan 30-5 Unit
 Company Pacific Northwest Petroleum Corp.
 Address 415 N. 3rd St., Portland, O. R.
 Field Utah Nevada State New Mexico

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

OIL OR GAS SANDS OR ZONES

(f) `vd.getStore()`

Log: Lane Wells Gamma Ray from 5770' to surface, Newton from 5762' to surface.

IMPORTANT WATER SANDS

No. 1 from
AD 8000, IR 8500, AP 11500, MP 19500, IP 18000, MC 10 minutes, IN 68 BM.
No. 2 from
AD 8000, IR 8500, AP 11500, MP 19500, IP 18000, MC 10 minutes, IN 68 BM.

CASING RECORD

[illegible]

~~HISTORY OF OIL OR GAS WELL~~

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

NUDDING AND CEMENTING RECORD

Year	Number of cases of cholera	Number of deaths	Number of cases of typhoid	Number of deaths
1900	100	10	100	10
1901	100	10	100	10
1902	100	10	100	10
1903	100	10	100	10
1904	100	10	100	10
1905	100	10	100	10
1906	100	10	100	10
1907	100	10	100	10
1908	100	10	100	10
1909	100	10	100	10
1910	100	10	100	10
1911	100	10	100	10
1912	100	10	100	10
1913	100	10	100	10
1914	100	10	100	10
1915	100	10	100	10
1916	100	10	100	10
1917	100	10	100	10
1918	100	10	100	10
1919	100	10	100	10
1920	100	10	100	10
1921	100	10	100	10
1922	100	10	100	10
1923	100	10	100	10
1924	100	10	100	10
1925	100	10	100	10
1926	100	10	100	10
1927	100	10	100	10
1928	100	10	100	10
1929	100	10	100	10
1930	100	10	100	10
1931	100	10	100	10
1932	100	10	100	10
1933	100	10	100	10
1934	100	10	100	10
1935	100	10	100	10
1936	100	10	100	10
1937	100	10	100	10
1938	100	10	100	10
1939	100	10	100	10
1940	100	10	100	10
1941	100	10	100	10
1942	100	10	100	10
1943	100	10	100	10
1944	100	10	100	10
1945	100	10	100	10
1946	100	10	100	10
1947	100	10	100	10
1948	100	10	100	10
1949	100	10	100	10
1950	100	10	100	10
1951	100	10	100	10
1952	100	10	100	10
1953	100	10	100	10
1954	100	10	100	10
1955	100	10	100	10
1956	100	10	100	10
1957	100	10	100	10
1958	100	10	100	10
1959	100	10	100	10
1960	100	10	100	10
1961	100	10	100	10
1962	100	10	100	10
1963	100	10	100	10
1964	100	10	100	10
1965	100	10	100	10
1966	100	10	100	10
1967	100	10	100	10
1968	100	10	100	10
1969	100	10	100	10
1970	100	10	100	10
1971	100	10	100	10
1972	100	10	100	10
1973	100	10	100	10
1974	100	10	100	10
1975	100	10	100	10
1976	100	10	100	10
1977	100	10	100	10
1978	100	10	100	10

PLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

[illegible]

TOOLS USED

Today tools were used from	1	feet to	feet and from	feet to
Cable tools were used from	feet to	feet and from	feet to	feet

DATE

The production for the first 24 hours was	10.35	Part to producing	10
barrels of fluid of which 26 was oil;			

It was well run ft over 91 hours at \$28.00 per	% sediment	
	% water; and	
Gallons gasoline per 1000 cu ft of gas	Gravity, °Be.	

EMPLOYEES	Block pressure, lbs. per sq. in.	1000 - 1500	1000 - 1500
	Time in 11 days	1000 - 1500	1000 - 1500

EMPLOYEES

Driller	Driller		
Driller	Driller		

FORMATION RECORD

FROM -	TO -	TOTAL FEET	FORMATION
1000'	1100'	100'	Gravelly Sand
1100'	1200'	100'	Sand
1200'	1300'	100'	Sand
1300'	1400'	100'	Sand
1400'	1500'	100'	Sand
1500'	1600'	100'	Sand
1600'	1700'	100'	Sand
1700'	1800'	100'	Sand
1800'	1900'	100'	Sand
1900'	2000'	100'	Sand
2000'	2100'	100'	Sand
2100'	2200'	100'	Sand
2200'	2300'	100'	Sand
2300'	2400'	100'	Sand
2400'	2500'	100'	Sand
2500'	2600'	100'	Sand
2600'	2700'	100'	Sand
2700'	2800'	100'	Sand
2800'	2900'	100'	Sand
2900'	3000'	100'	Sand
3000'	3100'	100'	Sand
3100'	3200'	100'	Sand
3200'	3300'	100'	Sand
3300'	3400'	100'	Sand
3400'	3500'	100'	Sand
3500'	3600'	100'	Sand
3600'	3700'	100'	Sand
3700'	3800'	100'	Sand
3800'	3900'	100'	Sand
3900'	4000'	100'	Sand
4000'	4100'	100'	Sand
4100'	4200'	100'	Sand
4200'	4300'	100'	Sand
4300'	4400'	100'	Sand
4400'	4500'	100'	Sand
4500'	4600'	100'	Sand
4600'	4700'	100'	Sand
4700'	4800'	100'	Sand
4800'	4900'	100'	Sand
4900'	5000'	100'	Sand
5000'	5100'	100'	Sand
5100'	5200'	100'	Sand
5200'	5300'	100'	Sand
5300'	5400'	100'	Sand
5400'	5500'	100'	Sand
5500'	5600'	100'	Sand
5600'	5700'	100'	Sand
5700'	5800'	100'	Sand
5800'	5900'	100'	Sand
5900'	6000'	100'	Sand
6000'	6100'	100'	Sand
6100'	6200'	100'	Sand
6200'	6300'	100'	Sand
6300'	6400'	100'	Sand
6400'	6500'	100'	Sand
6500'	6600'	100'	Sand
6600'	6700'	100'	Sand
6700'	6800'	100'	Sand
6800'	6900'	100'	Sand
6900'	7000'	100'	Sand
7000'	7100'	100'	Sand
7100'	7200'	100'	Sand
7200'	7300'	100'	Sand
7300'	7400'	100'	Sand
7400'	7500'	100'	Sand
7500'	7600'	100'	Sand
7600'	7700'	100'	Sand
7700'	7800'	100'	Sand
7800'	7900'	100'	Sand
7900'	8000'	100'	Sand
8000'	8100'	100'	Sand
8100'	8200'	100'	Sand
8200'	8300'	100'	Sand
8300'	8400'	100'	Sand
8400'	8500'	100'	Sand
8500'	8600'	100'	Sand
8600'	8700'	100'	Sand
8700'	8800'	100'	Sand
8800'	8900'	100'	Sand
8900'	9000'	100'	Sand
9000'	9100'	100'	Sand
9100'	9200'	100'	Sand
9200'	9300'	100'	Sand
9300'	9400'	100'	Sand
9400'	9500'	100'	Sand
9500'	9600'	100'	Sand
9600'	9700'	100'	Sand
9700'	9800'	100'	Sand
9800'	9900'	100'	Sand
9900'	10000'	100'	Sand
10000'	10100'	100'	Sand
10100'	10200'	100'	Sand
10200'	10300'	100'	Sand
10300'	10400'	100'	Sand
10400'	10500'	100'	Sand
10500'	10600'	100'	Sand
10600'	10700'	100'	Sand
10700'	10800'	100'	Sand
10800'	10900'	100'	Sand
10900'	11000'	100'	Sand
11000'	11100'	100'	Sand
11100'	11200'	100'	Sand
11200'	11300'	100'	Sand
11300'	11400'	100'	Sand
11400'	11500'	100'	Sand
11500'	11600'	100'	Sand
11600'	11700'	100'	Sand
11700'	11800'	100'	Sand
11800'	11900'	100'	Sand
11900'	12000'	100'	Sand
12000'	12100'	100'	Sand
12100'	12200'	100'	Sand
12200'	12300'	100'	Sand
12300'	12400'	100'	Sand
12400'	12500'	100'	Sand
12500'	12600'	100'	Sand
12600'	12700'	100'	Sand
12700'	12800'	100'	Sand
12800'	12900'	100'	Sand
12900'	13000'	100'	Sand
13000'	13100'	100'	Sand
13100'	13200'	100'	Sand
13200'	13300'	100'	Sand
13300'	13400'	100'	Sand
13400'	13500'	100'	Sand
13500'	13600'	100'	Sand
13600'	13700'	100'	Sand
13700'	13800'	100'	Sand
13800'	13900'	100'	Sand
13900'	14000'	100'	Sand
14000'	14100'	100'	Sand
14100'	14200'	100'	Sand
14200'	14300'	100'	Sand
14300'	14400'	100'	Sand
14400'	14500'	100'	Sand
14500'	14600'	100'	Sand
14600'	14700'	100'	Sand
14700'	14800'	100'	Sand
14800'	14900'	100'	Sand
14900'	15000'	100'	Sand
15000'	15100'	100'	Sand
15100'	15200'	100'	Sand
15200'	15300'	100'	Sand
15300'	15400'	100'	Sand
15400'	15500'	100'	Sand
15500'	15600'	100'	Sand
15600'	15700'	100'	Sand
15700'	15800'	100'	Sand
15800'	15900'	100'	Sand
15900'	16000'	100'	Sand
16000'	16100'	100'	Sand
16100'	16200'	100'	Sand
16200'	16300'	100'	Sand
16300'	16400'	100'	Sand
16400'	16500'	100'	Sand
16500'	16600'	100'	Sand
16600'	16700'	100'	Sand
16700'	16800'	100'	Sand
16800'	16900'	100'	Sand
16900'	17000'	100'	Sand
17000'	17100'	100'	Sand
17100'	17200'	100'	Sand
17200'	17300'	100'	Sand
17300'	17400'	100'	Sand
17400'	17500'	100'	Sand
17500'	17600'	100'	Sand
17600'	17700'	100'	Sand
17700'	17800'	100'	Sand
17800'	17900'	100'	Sand
17900'	18000'	100'	Sand
18000'	18100'	100'	Sand
18100'	18200'	100'	Sand
18200'	18300'	100'	Sand
18300'	18400'	100'	Sand
18400'	18500'	100'	Sand
18500'	18600'	100'	Sand
18600'	18700'	100'	Sand
18700'	18800'	100'	Sand
18800'	18900'	100'	Sand
18900'	19000'	100'	Sand
19000'	19100'	100'	Sand
19100'	19200'	100'	Sand
19200'	19300'	100'	Sand
19300'	19400'	100'	Sand
19400'	19500'	100'	Sand
19500'	19600'	100'	Sand
19600'	19700'	100'	Sand
19700'	19800'	100'	Sand
19800'	19900'	100'	Sand
19900'	20000'	100'	Sand
20000'	20100'	100'	Sand
20100'	20200'	100'	Sand
20200'	20300'	100'	Sand
20300'	20400'	100'	Sand
20400'	20500'	100'	Sand
20500'	20600'	100'	Sand
20600'	20700'	100'	Sand
20700'	20800'	100'	Sand
20800'	20900'	100'	Sand
20900'	21000'	100'	Sand
21000'	21100'	100'	Sand
21100'	21200'	100'	Sand
21200'	21300'	100'	Sand
21300'	21400'	100'	Sand
21400'	21500'	100'	Sand
21500'	21600'	100'	Sand
21600'	21700'	100'	Sand
21700'	21800'	100'	Sand
21800'	21900'	100'	Sand
21900'	22000'	100'	Sand
22000'	22100'	100'	Sand
22100'	22200'	100'	Sand
22200'	22300'	100'	Sand
22300'	22400'	100'	Sand
22400'	22500'	100'	Sand
22500'	22600'	100'	Sand
22600'	22700'	100'	Sand
22700'	22800'	100'	Sand
22800'	22900'	100'	Sand
22900'	23000'	100'	Sand
23000'	23100'	100'	Sand
23100'	23200'	100'	Sand
23200'	23300'	100'	Sand
23300'	23400'	100'	Sand
23400'	23500'	100'	Sand
23500'	23600'	100'	Sand
23600'	23700'	100'	Sand
23700'	23800'	100'	Sand
23800'	23900'	100'	Sand
23900'	24000'	100'	Sand
24000'	24100'	100'	Sand
24100'	24200'	100'	Sand
24200'	24300'	100'	Sand
24300'	24400'	100'	Sand
24400'	24500'	100'	Sand
24500'	24600'	100'	Sand
24600'	24700'	100'	Sand
24700'	24800'	100'	Sand
24800'	24900'	100'	Sand
24900'	25000'	100'	Sand
25000'	25100'	100'	Sand
25100'	25200'	100'	Sand
25200'	25300'	100'	Sand
25300'	25400'	100'	Sand
25400'	25500'	100'	Sand
25500'	25600'	100'	Sand
25600'	25700'	100'	Sand
25700'	25800'	100'	Sand
25800'	25900'	100'	Sand
25900'	26000'	100'	Sand
26000'	26100'	100'	Sand
26100'	26200'	100'	Sand
26200'	26300'	100'	Sand
26300'	26400'	100'	Sand
26400'	26500'	100'	Sand
26500'	26600'	100'	Sand
26600'	26700'	100'	Sand
26700'	26800'	100'	Sand
26800'	26900'	100'	Sand
26900'	27000'	100'	Sand
27000'	27100'	100'	Sand
27100'	27200'	100'	Sand
27200'	27300'	100'	Sand
27300'	27400'	100'	Sand
27400'	27500'	100'	Sand
27500'	27600'	100'	Sand
27600'	27700'	100'	Sand
27700'	27800'	100'	Sand
27800'	27900'	100'	Sand
27900'	28000'	100'	Sand
28000'	28100'	100'	Sand
28100'	28200'	100'	Sand
28200'	28300'	100'	Sand
28300'	28400'	100'	Sand
28400'	28500'	100'	Sand
28500'	28600'	100'	Sand
28600'	28700'	100'	Sand
28700'	28800'	100'	Sand
28800'	28900'	100'	Sand
28900'	29000'	100'	Sand
29000'	29100'	100'	Sand
29100'	29200'	100'	Sand
29200'	29300'	100'	Sand
29300'	29400'	100'	Sand
29400'	29500'	100'	Sand
29500'	29600'	100'	Sand
29600'	29700'	100'	Sand
29700'	29800'	100'	Sand
29800'	29900'	100'	Sand
29900'	30000'	100'	Sand
30000'	30100'	100'	Sand
30100'	30200'	100'	Sand
30200'	30300'	100'	Sand
30300'	30400'	100'	Sand
30400'	30500'	100'	Sand
30500'	30600'	100'	Sand
30600'	30700'	100'	Sand
30700'	30800'	100'	Sand
30800'	30900'	100'	Sand
30900'	31000'	100'	Sand
31000'	31100'	100'	Sand
31100'	31200'	100'	Sand
31200'	31300'	100'	Sand
31300'	31400'	100'	Sand
31400'	31500'	100'	Sand
31500'	31600'	100'	Sand
31600'	31700'	100'	Sand
31700'	31800'	100'	Sand
31800'	31900'	100'	Sand
31900'	32000'	100'	Sand
32000'	32100'	100'	Sand
32100'	32200'	100'	Sand
32200'	32300'	100'	Sand
32300'	32400'	100'	Sand
32400'	32500'	100'	Sand
32500'	32600'	100'	Sand
32600'	32700'	100'	Sand
32700'	32800'	100'	Sand
32800'	32900'	100'	Sand
32900'	33000'	100'	Sand
33000'	33100'	100'	Sand
33100'	33200'	100'	Sand
33200'	33300'	100'	Sand
33300'	33400'	100'	Sand
33400'	33500'	100'	Sand
33500'	33600'	100'	Sand
33600'	33700'	100'	Sand
33700'	33800'	100'	Sand
33800'	33900'	100'	Sand
33900'	34000'		