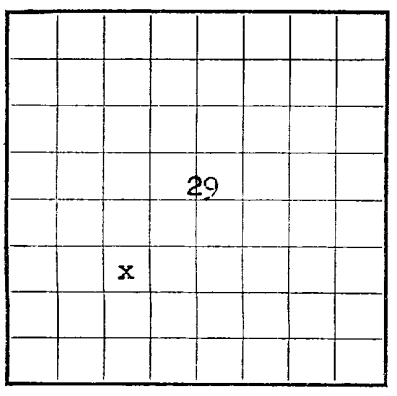
3 - USGS
3 - El Paso
2 - NMOCC
1 - L. G. Truby
1 - File

Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF-079050
LEASE OR PERMIT TO PROSPECT
14-08-001-1051



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company PACIFIC NORTHWEST PIPELINE CORP. Address 405½ W. Broadway, Farmington, N.M.

Lessor or Tract 28-6 Field Blanco Mesa Verde State New Mexico

Well No. 51-29 Sec. 29 T. 28N R. 6W Meridian N.M.P.M. County Rio Arriba

Location 1735 ft. {N./S.} of S Line and 1745 ft. {E./W.} of W Line of Section 29 Elevation 6513'
(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

Date April 22, 1957 Title Assistant Division Manager

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

Commenced drilling November 29, 1956 Finished drilling December 17, 1956

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from G 4906 to 5560 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 pulled from	Perforated From	Perforated To	Purpose
10-3/4	32.50	8 Rd	J & L	173.91	Tex. Pat.				
7-5/8	24	8 Rd	Republic	3450	Guide Shoe				
5-1/2	14	8 Rd	CF&I	5628.03	Float Shoe				
2-3/8	4.7	8 Rd		5554.12	(Tubing)				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	186.91	150	Pump Plug		
7-5/8	3470	150	Pump Plug		
5-1/2	5639.13	150	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 5639' feet, and from feet to feet

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

DATES

March 11, 1957 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 2110 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. Tubing 1089 Casing 1099 CAOF 2,554

EMPLOYEES

, Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2455'	2455'	Surface
2455'	2607'	152'	Ojo Alamo
2607'	2956'	349'	Kirtland
2956'	3264'	308'	Fruitland
3264'	3348'	84'	Pictured Cliffs
3348'	4906'	1558'	Lewis
4906'	5041'	135'	Cliff House
5041'	5427'	386'	Menefee
5427'			Point Lookout
5639'			Total Depth
5629'			Plug Back Total Depth

[OVER]

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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

HISTORY OF OIL OR GAS WELL

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

Perf 4906-10, 4914-22, 4926-36, 4948-54, 4964-68, 4982-86, 5034-38, 5180-84, 5204-08, 5240-44, 5368-72, 5438-52, 5460-66, 5490-98, 5506-10, 5516-20, 5528-32, 5552-60. 2 shots/ft.

Frac w/147,000 gals water only. BD 1350#, IP 1500#, avg 1500#, max 3000#, standing vac. Avg IR 35.3 bbls/min. Dropped 260 balls. HOWCO

Logs: Lane Wells Gamma Ray-Neutron, 10' to 5628', with Long Spaced Neutron, 2900' to 3490', and 4500' to 5628'.

No Cores

Max Deviation $1\frac{1}{2}^{\circ}$ @ 4500'