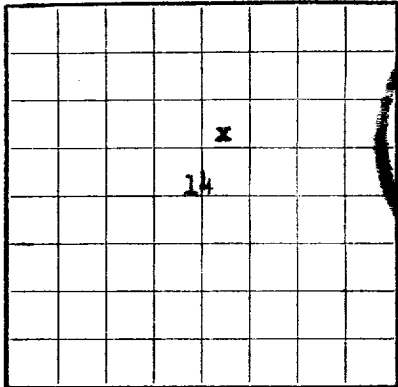


3 - USGS
2 - NMOC
1 - L. G. Truby
1 - File

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 3F-078771
LEASE OR PERMIT TO PROSPECT
14-08-001-587



LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company PACIFIC NORTHWEST PIPELINE CORP. Address 405 1/2 W. Broadway, Farmington
Lessor or Tract Rosa Field Blanco Mesa Verde State New Mexico
Well No. 20-14 Sec. 14 T. 31N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 1580' ft. (S) of N Line and 1790' ft. (E) of E Line of Section 14 Elevation 6388'
(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. Original signed by T. A. Dugan
Signed _____

Date June 18, 1957 Title Division Manager

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

Commenced drilling April 1, 1957 Finished drilling May 4, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6-5760' to 5518' 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		Purpose
							From—	To—	
10-3/4	32.75	8rd.	CP&I	189.17	Guide				
7-5/8	26.4	8rd.	Republic	3525.68	Guide				
5-1/2	14.	8rd.	CP&I	2354.53	Float				
2-3/8	4.7	8rd.		5732.90	(Tubing)				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	202.67'	160	Pump Plug		
7-5/8	3638.18'	200	Pump Plug		
5-1/2	5870'	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 _____ feet to 5870' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

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

Rock pressure, lbs. per sq. in. 2980
Tubing 1252 Casing 1250 CAOF 3,835

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2418'	2418'	Surface
2418'	2522'	104'	Ojo Alamo
2522'	2953'	431'	Kirtland
2953'	3178'	225'	Fruitland
3178'	3561'	383'	Pictured Cliffs
3561'	5385'	1824'	Lewis
5385'	5490'	105'	Cliff House
5490'	5675'	185'	Manefee
5675'	TD	195'	Point Lookout
5870'			Total Depth
5859'			Plug Back Total Depth



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LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

The information given herewith is a complete and correct record of the well and all work done thereon as far as can be determined from all available records. Original signed by T. A. Prosser.

Signed _____ of _____

Location _____ of _____

Well No. _____ Section _____ Township _____ Range _____

Plat _____

County _____ State _____

Address _____

OIL OF GAS SANDS ON ZONES

06-08-2009

6-2-57 Part 1700-14, 5712-22, 5718-06, 5702-5696, 5694-88, 5684-78, 5544-18.
 Casing Record
 Plc w/168,000 gals water. BD 750', lt 1500', avg 1500', max 1600', final 1500',
 standing vac. Overall IR 68.9 bbls/min. Used 225 balls.
 Logs: Lane Wells Gamma Ray, Surface to 5647' - Neutron, Surface to 5859' -
 Multispaced Neutron, 5859' to 4900', and 4090' to 2900'.
 No Cores
 Max Deviation 20° @ 4144'.

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 plungers 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

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

[illegible]