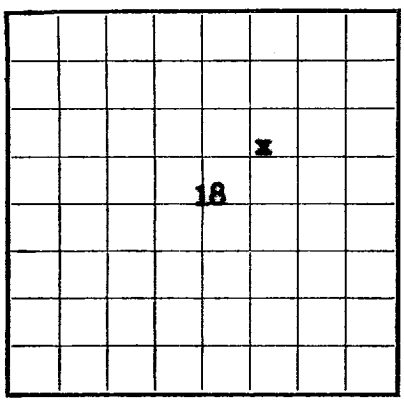
5 - USGS
1 - L. G. Truby
Form 9-330 1 - File

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF-078994
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 NORTHWEST PIPELINE CORP. Address 405½ W. Broadway, Farmington,
Lessor or Tract 30-5 Field Blanco MesaVerde State New Mexico
Well No. 19-18 Sec. 18 T. 30N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 1850' ft. {N. / S.} of N Line and 1850 ft. {E. / W.} of E Line of Section 18 Elevation 6410'
(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 T. A. Dugan

Date June 28, 1957 Title Division Manager

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

Commenced drilling April 18, 19 57 Finished drilling May 9, 19 57

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from G 5790' to 5806'. 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

RECEIVED JUL 3 '57 OIL CON. COM. DIST. 3

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	32.75	8rd.	CF&I	208.09	Guide				
7-5/8	26.4	8rd.	Republic	3552.10	Guide				
5-1/2	14	8rd.	CF&I	2[illegible].57	Float				
1-1/4	2.40	10rd.		5785.62	(Tubing)				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	219.09'	235	Pump Plug		
7-5/8	3552'	200	Pump Plug		
5-1/2	5800'	200	Pump Plug		

FOLD — MARK

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 5809' feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

June 6, 19 57 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. 3,516,000

Tubing 885 Casing 1137 CAOF 7,115

, Driller Shut in 7 days, Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2302'	2302'	Surface
2302'	2505'	203'	Ojo Alamo
2505'	2987'	482'	Kirtland
2987'	3222'	235'	Fruitland
3222'	3488'	266'	Pictured Cliffs
3488'	5302'	1814'	Lewis
5302'	5350'	48'	Cliff House
5350'	5602'	252'	Menefee
5602'	TD	198'	Point Lookout
5800'			Total Depth
5797'			Plug Back Total Depth

[OVER]

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

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

DATES

Ready for production ____ 19____

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____% emulsion; ____% water; and ____% sediment.

Gravity, °Be ____

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

____ Driller ____ Driller

____ Driller ____ Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION

SHOOTING RECORD

Date	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TUBES AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

MUDDING AND CEMENTING RECORD

Size	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

16—43004-2 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.

6-6-57. Perf 5790-86, 5774-70, 5768-64, 5758-54, 5720-10, 5694-66, 5658-30, 5626-06, 5592-46, 5522-14, 5422-06, 5388-84, 5326-22, 5318-06.

6-7-57. Frac w/140,000 gals water. BD 2600#, IP 1400#, MP 2500#, avg 1700#, FP 2000#, standing vac. IR before balls 81 bbls/min, overall IR 58.2 bbls/min. Used 360 rubber balls. Frac thru perfs.

No Cores

Logs: Lane Wells Gamma Ray, Surface to 5785'; Neutron, Surface to 5797'. Multispaced Neutron 3000' to 3550' and 5000' to 5797'.

Max Deviation 3/4° @ 2890' - 3325' - 4950' - 5500' - 5750'.

OIL & GAS CONS. COM. JUL 3 1957 DIST. 3

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

Company ____ Address ____

Lessor or Farm ____ Field ____ State ____

Well No. ____ Sec. ____ T. ____ R. ____ Meridian ____ County ____

Location ____ ft. ____ of ____ Line and ____ ft. ____ of ____ Line of ____ Elevation ____

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 E. A. Durgan

Date ____ Title ____

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

Commenced drilling ____ 19____ Finished drilling ____ 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ____ to ____ No. 3, from ____ to ____

No. 2, from ____ to ____ No. 4, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from ____ to ____ No. 3, from ____ to ____

No. 2, from ____ to ____ No. 4, from ____ to ____

CASING RECORD

Size	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut off	Pulled from	Perforated	Purpose

MARK | DATE