Form 9-330

4 - USGS
1 - W.R.Johnston
2 - C.C.Rogers
1 - File

Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078771
LEASE OR PERMIT TO PROSPECT Rosa Unit

RECEIVED
DEC 23 1955
OIL CON. COM.
DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company PACIFIC NORTHWEST PIPELINE CORP. Address 413½ West Main St., Farmington, N.M.

Lessor or Tract Rosa Unit Field Wildcat State New Mexico

Well No. 9-11 Sec. 11 T. 31N R. 6W Meridian N.M.P.M. County Rio Arriba

Location 1800 ft. {N./S.} of Sec. Line and 1650 ft. {E./W.} of Sec. Line of Sec. 11 Elevation 6275.4 (Derrick floor relative to sea level) Ungraded Ground

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 November 15, 1955 Title District Engineer

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 5344 to 5498 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 2684 to 2971 No. 3, from ---------- to ----------

No. 2, from 2971 to 3046 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"	32.75	8 RD	L & S	205.44	Casing				
7-5/8"	24	8 RD	L & S	3500	Casing				
5½"	14	8 RD	Lone Star	5738.99	Casing				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	218.44	160 sx AS	Halliburton		
7-5/8"	3500	130 sx BS	Halliburton		
5½"	5740	125 sx	Halliburton		

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 5740 feet, and from ---------- feet to ---------- feet

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

DATES

9-18, 19 55 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 3,900 Gallons gasoline per 1,000 cu. ft. of gas ----------

Rock pressure, lbs. per sq. in. S.I.T.P. 1174 - S.I.C.P. 1162#

EMPLOYEES

Morris B. Jones, Drlg. Foreman, Driller ----------, Driller

----------, Driller ----------, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2274	2274	Surface
2274	2448	174	Sand Ojo Alamo
2448	2846	398	Shale w/ some sand - Kirtland
2846	3078	232	Interbedded shales, coals & Sand-Furitland
3078	3495	417	Sand - Pictured Cliffs
3495	5298	1803	Shale - Lewis
5298	5344	46	Sand - Cliff House
5344	5576	232	Sand, shales& coals - Menefee
5576	5740	164	Total Depth

[OVER]

16—43094-3

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

[OVER]

16—43094-2

HISTORY OF OIL OR GAS WELL

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

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.

Drill stem tests 2884 - 2971 & 2971 - 3046.

Total depth 5740', [illegible] Sand frac w/ 21,600 gallons water & 30,000# sd. Avg. Injection Rate 62 BPM. Initial treat pressure 900#. Max & Final 1100#. Set bridge plug 5561 perf. 5364-5548, frac w/ 40,000 gallons water & 60,000# sd. [illegible] treat pressure 1300# final and Max. 1825# to [illegible]. Overall injection rate 45.5 BPM. Avg. treat I.R. 48 BPM. Ran [illegible].41' of 2" [illegible] tubing set at 5675.98. Rig released 7 A.M. 9-18-55.