Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078282
LEASE OR PERMIT TO PROSPECT

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OIL CON. COM.
DIST. 3

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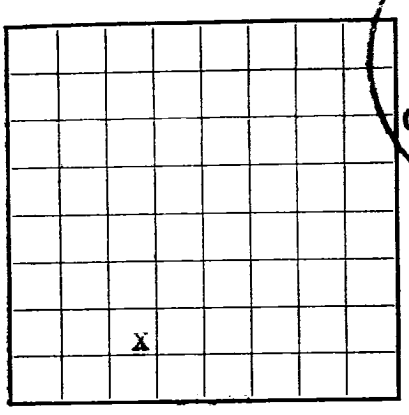
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Pacific Northwest Pipeline Corp. Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 29-5 Unit Field Blanco M.V. & Basin Dak. State New Mexico
Well No. 32-29 Sec. 29 T 29N R 5W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. [N.] of S Line and 1500 ft. [E.] of W Line of Section 29 Elevation 6522 (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 F. H. WOOD

Date 10-7-59 Title Petroleum Engineer

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

Commenced drilling 6-23, 1959 Finished drilling 8-19, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3435 to 3551 (G) No. 4, from 5623 to 5704 (G)
No. 2, from 5253 to 5330 (G) No. 5, from 6849 to 7360 (G)
No. 3, from 5330 to 5623 (G) No. 6, from 7778 to 7989 (G)

IMPORTANT WATER SANDS

No. 1, from 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
13 3/8	48	8 Rd.	J-55	322	Bowco				Surface
9 5/8	36	8 Rd.	J-55	3648	Bowco				Intermediate
7"	23	8 Rd.	N-80	2556					
7"	23	8 Rd.	J-55	7669	Baker				Prod. Csg.
5"	18	8 Rd.	J-55	463	Baker				Prod. Liner
2"	4.7	8 Rd.	J-55	7820					Prod. Tbg.
1 1/4	2.4	10 Rd.	Grade A	7685					Siphon

RECORD OF OIL OR GAS AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	322	345	Circulated		
9 5/8	3648	1000	Two Stages		
7"	7625	1000	Single Stage		
5"	7566-8029	75	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size Bowco Type "C" Production Pkr. at 7473'.

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from 0 feet to 3653 feet, and from 3653 feet to 7630 feet
Cable tools were used from feet to feet, and from 7630 feet to 8032 feet

Gas Drilled
Mud Circulation

DATES

9-5, 1959 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 MV-5,038,000 Dak-3,083,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. MV-1057; Dak 2572 A.O.F. = M.V. 5678; Dak 3185 MCF/D

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2645	2645	Tan to gry cr-grn ss interbedded w/gry sh.
2645	2823	178	Ojo Alamo ss. White cr-grn s.
2823	3134	311	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss.
3134	3435	301	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3435	3551	116	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3551	5253	1702	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5253	5330	77	Cliff House ss. Gry, fine-grn, dense sil ss.
5330	5623	293	Menefee form. Gry, fine-grn s, carb sh & coal.
5623	5704	81	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5704	6849	1145	Mancos formation. Gry carb sh.
6849	7360	511	Gallup form. Lt gry to brn calc carb micac glauc very fine gry ss w/irreg. interbed sh.
7360	7647	287	Sanastee form. Drk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.
7647	7778	131	Graneros form. Dk gry shale, fossil & carb w/prite incl.
7778	7989	211	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay & sha breaks.
7989	8032	43	Morrison form. Interbed grn brn and red waxy sh & fr to cr grn sd.

FOLD | MARK

16—48094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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.

8-24-59 Perf. Lower Dakota perf. int. 7828-7838; 7848-7858; 7864-7882 (2 SPF) fraced w/54,413 gallons water, 1% Calcium Chloride, 30,000# sand. ED pr. 2850#, Max. pr. 3950#, tr. pr. 3100-3600#. I.R. 51 BPM. Flush 15,793 gallons. Spotted 200 gal MCA before perforating. Dropped 2 sets 12 balls each.

8-24-59 Perf. Upper Dakota 7775-7785; 7790-7799 (2 SPF) Fraced w/31,992 gallons water, 1% Calcium Chloride, 18,000# sand. ED pr. 2750#, max. pr. 3975#, tr. pr. 3850-3975. I.R. 49 BPM. Flush 18,000 gal. water. Spotted 200 gal MCA before perforating.

8-25-59 Set bridge plug at 7660'. Perf. Mesa Verde perf. int. 5622-5631; 5649-5651; 5654-5659; 5669-5673; 5695-5699; 5710-5712; 5718-5724 (2 SPF) fraced w/ 68,488 gallons water, ED pr. 800#, max. pr. 3200#, tr. pr. 1210#. I.R. 70.4 BPM. Dropped 4 sets of 10 balls each 2 sets of 15 balls each, balled off after 6th drop.

8-25-59 Temporary bridge plug at 5542'. Perf. Cliff house perf. int. 5290-5300; 5363-5520 (2 SPF). Frac. w/60,000 gallons water, ED pr. 1100#, max. pr. 2500#, tr. pr. 1720#. I.R. 51.5. Dropped 5 sets of 10 balls each.

CORES

Date	Section	Recovery
7-29-59	7770 - 7791	21' 3"
7-30-59	7791 - 7799	7' 4"
8-1-59	7799 - 7836	37'
8-2-59	7836 - 7842	4' 8"
8-3-59	7841 - 7854	12' 6"
8-5-59	7854 - 7869	12' 4"
8-7-59	7869 - 7873	6' 4"

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