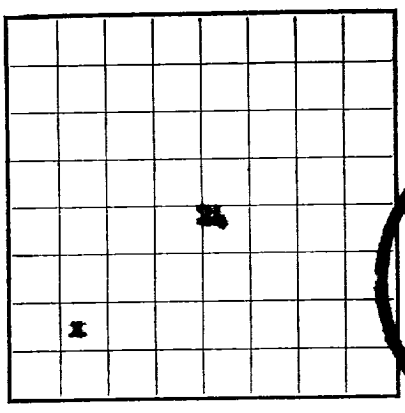
Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER S.F. 080894
LEASE OR PERMIT TO PROSPECT

4-U. S.
1-[illegible] Johnston
2-J. Valicera
2-El Paso
1-[illegible]



LOCATE WELL CORRECTLY

RECEIVED SEP 14 1956 OIL CON. COM.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pacific Northwest Pipeline Corp. Address 413 [illegible] Main, Farmington, New Mexico
Lessor or Tract Unit 32-8 Field Blanco Mesa Verde State New Mexico
Well No. 15-24 Sec. 24 T. 31N R. 8W Meridian N.M.P.M. County San Juan
Location 1100 ft. {N. S.} of Sec Line and 790 ft. {E. W.} of Sec Line of Sec 24 Elevation (Derrick floor relative [illegible]' 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.

Signed Original signed by T. A. Dugan
Date June 28, 1956 Title District Engineer

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

Commenced drilling 4-15-56, 19 Finished drilling 5-27-56, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from to No. 4, from to
No. 2, from 5292 to 5[illegible] G No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to
No. 2, from None 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	32.75	[illegible]	[illegible]	[illegible]	[illegible]				
7-5/8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
5-1/2	15.5	8Rd	Lone Star	5301.75	Float				
2-3/8	4.7	8Rd	Republic	[illegible]	[illegible]				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	214.37	180 sx reg 2% CaCl	Halliburton		
7-5/8	3560.76	150 sx 8% gel & 50 neat	Halliburton		
5-1/2	5[illegible]13.25	20[illegible] sx reg. [illegible]	Halliburton		

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 feet, and from feet to feet
Cable tools were used from 0 feet to 5813 feet, and from feet to feet

DATES

, 19 Put to producing , 19

The production for the first 24 hours was barrels of fluid of which % was oil; % emulsion; % water; and % sediment. 5-27-56 56 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. 4372 Cal Absol Open Flow

EMPLOYEES

, Driller SITP 1137# SICP 1132# , Driller
Larry Bedford Drilling Foreman, Driller test 6-4-56 thru 3/4" choke shut in for 7 days, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2172	2172	Surface
2172	2294	122	Ojo Alamo-Sand
2294	3033	739	Kirtland-Shale w/some sand
3033	3343	310	Fruitland-Interbedded sand, shale and coal
3343	3468	125	Pictured Cliffs-Sand
3468	5292	1824	Lewis-Shale
5292	5331	91	Cliff House-Sand
5331	5632	301	Menefee-Interbedded sand, shale and coal
5632	5813	181	Point Lookout-Sand
5813			Total Depth

FOLD | MARK

[OVER]

16—43094-4

FORMATION RECORD—Continued

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.

[illegible] and loaded hole w/water, tested [illegible] and
hole stopped casting @ 3570'. Set [illegible] @ 3562' [illegible]
casing w/1000#, tested o.k. Perf 4 holes @ 3550' and set retainer @ 3445', tested
casing w/1200#, tested o.k. Br formation w/1100#. Mixed 150 sx reg. cmt. Avg pump
press 400#. Max 800#, cleared perf w/5 bbls water, final 1000#. [illegible] for 24 hours,
press up w/3500# on perf. [illegible] drilled to TD of 5910', ran 116 jts, 5-1/2"
casing. [illegible] running the 116th jt of 5-1/2" pin on 116th jt pulled out of collar of
113th jt. Fished for 5-1/2" casing at 1533'. [illegible] of junk pipe. Top of fish
was then @ 4031', was not able to rec. the rest of the pipe. Ran 150 sx cmt. plug
w/[illegible] [illegible] pressed off [illegible] plug from 3677-3930', set whipstock @ 3950'
[illegible] drilled hole to 5813' (Total depth) Max dev. [illegible] at 3950'. TD 5813'. Perf
5694-5718, 5732-38, 5754-58, 5764-68, 5780-[illegible], 5789-92, 5800-04, w/2 shots/ft. Frac
[illegible] w/50,500 gals water only. [illegible] 1300#, final 1200#, to vac.
Avg [illegible] [illegible] Perf 5662-73 w/3 shots/ft. Perf 5652-62 w/2 shots/ft. Perf
5634-58 [illegible] retrievable BP @ 5640'. Frac w/50,[illegible] gals water only. [illegible] 1300#,
avg 1450#, Max 1500#, final 1400#, to vac. [illegible] Retrieved [illegible] & perf
5444-52, 5462-66, 5472-76, 5502-06, 5544-53, 5570-[illegible], w/4 shots/ft. Set BP @ 5610'.
Frac was w/50,400 gals water only. BD 2600#, avg [illegible] final [illegible] Max 1600#, to vac.
[illegible] Retrieved BP. Perf [illegible], [illegible] w/4 shots/ft. Perf 5392-98,
5306-32 w/[illegible] shots/ft. Frac [illegible] w/47,040 gals water only. BD 1900#,
avg 1450#, max 1500#, final 1450#, to vac. [illegible] Released rig 4:30 [illegible]
out to T.D. Set [illegible] [illegible] @ 5774'.
5-28-56