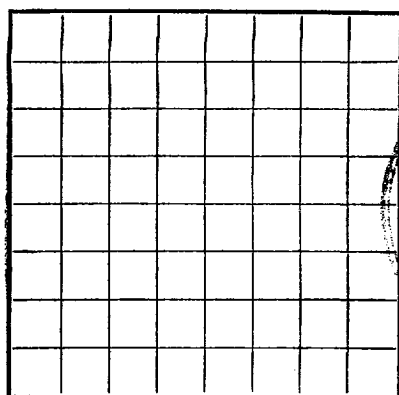


4. 2. 6. 5.
1-W. R. JOHNSON
2-C. C. Rogers
1-FileU. S. LAND OFFICE New Mexico
SERIAL NUMBER 078994
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
FEB 21 1956
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company PACIFIC NORTHWEST PIPELINE CORP. Address 413 1/2 West Main, Farmington, N.M.
Lessor or Tract Unit 30-5 Field Blanco State New Mexico
Well No. 10-18 Sec. 18 T. 30N R. 5W Meridian N.M.P.M. County Sio Arriba
Location 960 ft. [N.] of Sec Line and 640 ft. [E.] of Sec Line of 18 Elevation 6218
(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 Signal signed by T. A. Dugan

Date February 10, 1956 Title District Engineer

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

Commenced drilling 10 19 55 Finished drilling 11 16 55

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4588 to 5566 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 _____ 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
10-3/4	32.75	8.625	R & L	242				
10-3/4	32.75	8.625	Baker	1	Guide			
7-5/8	27	8.625	Baker	1	Float			
5-1/2	14	8.625	Baker	1	Float			
5-1/2	14	8.625	Baker	1	Float			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	257	175 ex 4% gel	Halliburton		
7-5/8	3252	100 ex 100-meat	Halliburton		
5-1/2	5620	125 ex 2% gel	Halliburton		
2-3/8	5570				

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 5620 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

11 16 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 4637 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 11144 EMPLOYEES

Morris Jones, Drilling Foreman, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2224	2224	Surface
2224	2405	181	Cjo Alamo - Sand
2405	2792	387	Kirtland - Shale w/some sand.
2792	3149	357	Fruitland - Interbedded sand, shale and coal.
3149	3245	96	Pictured Cliffs - Sand
3245	4813	1568	Lewis - Sand
4813	5055	242	Mesa Verde Transition - Sand and shale
5055	5141	86	Cliff House - Sand
5141	5393	252	Mansfield - Interbedded sand, shale and coal.
5393	5568	175	Point Lookout - Sand
5568	5620	52	Mancos - Shale
5620	—	5620	Total Depth

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

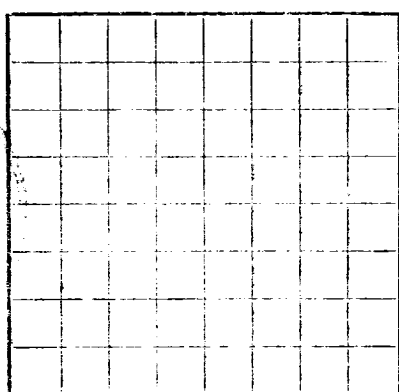
UNITED STATES

PLEASE OR PERMIT TO PROSPECT

SERIAL NUMBER

LAND OFFICE

Form 9-220



LOCATE WELL CORRECTLY

Company _____
Lessor or Trust _____
Well No. _____
Location _____ of _____ line and _____ ft. _____
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.
Signed _____

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

Commenced drilling _____
Finished drilling _____

OIL OR GAS SANDS OR ZONES

(Devote space by (C))

No. 1 from _____ to _____
No. 2 from _____ to _____
No. 3 from _____ to _____
No. 4 from _____ to _____
No. 5 from _____ to _____

Part from 5566-5568, true w/30,000 gals water and 30,000 20-40 sand, breakdown 1200%,
avg treat 1100, avg injection rate 41 g.p.m., vent on vacuum set bridge plug at 5490 and
part 5480-5400, true w/40,000 gals water and 30,000 20-40 sand, breakdown 1400, avg treat
1000, true 1200, vent to vacuum, injection rate 46.1 g.p.m., set bridge plug at 5340
and part from 5332-5176, true w/40,000 gals water and 50,000 40-60 sand, breakdown
3600, true 60 1100, avg treat 1850, true 1500 at end of 5 minutes, 500 injection rate
47.3 g.p.m., set bridge plug with 50,000 20-40 sand, true w/40,000 gals water and
50,000 70-90 sand, breakdown 200, true 200, injection rate 42.9 g.p.m., true 2-3/8"

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 the 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.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE
16-45094-2

MUDGING AND CEMENTING RECORD

Casing size	Water used	Number sacks of cement	Method used	Mud gravity	Amount of cement used
10 1/2	100	100	100	100	100
10 1/2	100	100	100	100	100
10 1/2	100	100	100	100	100
10 1/2	100	100	100	100	100

PLUGS AND ADAPTERS

Adapter - Material _____
Blowing plug - Material _____
Length _____
Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth - feet	Depth - ground surface

TOOLS USED

Cable tools were used from _____ feet to _____ feet and from _____ feet to _____ feet
Rotary tools were used from _____ feet to _____ feet and from _____ feet to _____ feet

DATES

The production for the first 24 hours was _____ barrels of fluid of which _____ was oil; _____ was gas.
If gas well, _____ ft. per 24 hours.
Block pressure, lbs. per sq. in. _____
Gallons gasoline per 1,000 cu. ft. of gas _____
Gravity, °Bé. _____
Put to producing _____

EMPLOYEES

Driller _____
Driller _____
Driller _____

FORMATION RECORD

FROM -	TO -	TOTAL FEET	FORMATION
0	500	500	Gravel - (sand)
500	1000	1000	Gravel - (sand)
1000	1500	1500	Gravel - (sand)
1500	2000	2000	Gravel - (sand)
2000	2500	2500	Gravel - (sand)
2500	3000	3000	Gravel - (sand)
3000	3500	3500	Gravel - (sand)
3500	4000	4000	Gravel - (sand)
4000	4500	4500	Gravel - (sand)
4500	5000	5000	Gravel - (sand)
5000	5500	5500	Gravel - (sand)
5500	6000	6000	Gravel - (sand)
6000	6500	6500	Gravel - (sand)
6500	7000	7000	Gravel - (sand)
7000	7500	7500	Gravel - (sand)
7500	8000	8000	Gravel - (sand)
8000	8500	8500	Gravel - (sand)
8500	9000	9000	Gravel - (sand)
9000	9500	9500	Gravel - (sand)
9500	10000	10000	Gravel - (sand)