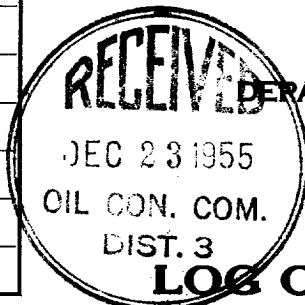


4 - U.S.G.S
1 - W.R. Johnston
1 - File
2 - D.F. Gandy

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078659
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company PACIFIC NORTHWEST PIPELINE CORP. Address 413 1/2 W. Main, Farmington, New Mexico
Lessor or Tract Unit 32-7 Field Blanco State New Mexico
Well No. 9-22 Sec. 22 T. 32N R. 7W Meridian N.M.P.M. County San Juan
Location 1650 ft. 1650 ft. of N Line and 1650 ft. of E Line of Sec. 22 Elevation 6601.8
(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 _____

Date October 5, 1955

Title District Engineer

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

Commenced drilling 7-2, 1955 Finished drilling 8-9, 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5550 to 5875 No. 2, from 5875 to 5975
No. 3, from 5975 to 6075 No. 4, from 6075 to 6175
No. 5, from 6175 to 6275 No. 6, from 6275 to 6375

IMPORTANT WATER SANDS

No. 1, from 5550 to 5875 No. 2, from 5875 to 5975
No. 3, from 5975 to 6075 No. 4, from 6075 to 6175

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4"	24.1	8 RA.	Baker	150 ax. 45	Guide Shoe				
7-5/8"	37.13	8 RA.	Baker	150 ax. 85	Guide Shoe				
5-1/2"	38.14	8 RA.	Baker	100 ax. 25	Guide Shoe				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	24.1	150 ax. 45	Halliburton		
7-5/8"	37.13	150 ax. 85	Halliburton		
5-1/2"	38.14	100 ax. 25	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
None						

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

_____, 1955 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. 3594

S.I.G.P. 1216 S.I.T.P. 1216

Shut in 8 days

G. E. Milchan, Drlg. Foreman _____, Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2333	2333	Surface
2333	2471	138	Sand - Ojo Alamo
2471	3015	544	Shale w/some sand - Kirtland
3015	3288	273	Interbedded shales coals & sand - Fruitland
3288	3704	416	Sand - Pictured Cliffs
3704	5522	1818	Shale - Lewis
5522	5573	51	Sand - Cliff House
5573	5975	200	Sands, Shales, & Coals - Point Lookout
5975	5975	182	Total Depth

(OVER)

FORMATION RECORD—Continued

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Y. BOZDOĞU, L. W. ELLAHO

_____ State of _____ Date _____ Time _____ to reveal

_____ of _____ and _____
_____ County, _____

The information given herein is a complete and correct record of the work and all work done thereon so far as can be determined from the available records.

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

1. 17-9-7/8" - 3715, 4 Lane Wells
 2. 17-9-7/8" - 3968, Good 1 to 15", 17-9-7/8"
 3. 17-9-7/8" - 4178, Lost BG's in hole
 4. 6-3/4" & 2 - 4-3/4" bits, Maximum deviation 1° @ 1718'. Lost BG's in hole
 5. 17-9-7/8" - 5289, w/ no bottom from 3000 - 5968
 6. 17-9-7/8" - 5975, sand trace
 7. 17-9-7/8" - 5975, w/10,000 psi. formation ahead, initial pressure
 8. 17-9-7/8" - 5975, when treat pit formation, pressure rose to 2800 psi and sanding out, no
 9. 17-9-7/8" - 5975, treatment went into formation, perforated 5790-5975 w/ 4 shots per foot, sand
 10. 17-9-7/8" - 5975, from 5790-5975 w/10,000 psi. initial pressure 5500, pump pressure 16500,
 11. 17-9-7/8" - 5975, job ended after 101.9219 hrs formation, 50% bridge plug at
 12. 17-9-7/8" - 5975, perforated 5550 - 5975, ran 2 pits ahead cushion before 500 gal 15% acid
 13. 17-9-7/8" - 5975, ahead of 20,000 psi differential w/10,000 psi initial pressure 18000 max. & final
 14. 17-9-7/8" - 5975, injection rate 40 bbls, planned to bottom prepared to run tubing and pump.
 15. 17-9-7/8" - 5975, 100% drilling

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 the results. If there were any changes made in the casing, state fully, and if any casing was sidetracked, or fell 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.

RECORDING AND CEMENTING RECORD

[illegible]

PLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	INITIALS
10/1/19	DEPOSITED	100.00			
10/2/19	DEPOSITED	100.00			
10/3/19	DEPOSITED	100.00			
10/4/19	DEPOSITED	100.00			
10/5/19	DEPOSITED	100.00			
10/6/19	DEPOSITED	100.00			
10/7/19	DEPOSITED	100.00			
10/8/19	DEPOSITED	100.00			
10/9/19	DEPOSITED	100.00			
10/10/19	DEPOSITED	100.00			
10/11/19	DEPOSITED	100.00			
10/12/19	DEPOSITED	100.00			
10/13/19	DEPOSITED	100.00			
10/14/19	DEPOSITED	100.00			
10/15/19	DEPOSITED	100.00			
10/16/19	DEPOSITED	100.00			
10/17/19	DEPOSITED	100.00			
10/18/19	DEPOSITED	100.00			
10/19/19	DEPOSITED	100.00			
10/20/19	DEPOSITED	100.00			
10/21/19	DEPOSITED	100.00			
10/22/19	DEPOSITED	100.00			
10/23/19	DEPOSITED	100.00			
10/24/19	DEPOSITED	100.00			
10/25/19	DEPOSITED	100.00			
10/26/19	DEPOSITED	100.00			
10/27/19	DEPOSITED	100.00			
10/28/19	DEPOSITED	100.00			
10/29/19	DEPOSITED	100.00			
10/30/19	DEPOSITED	100.00			
10/31/19	DEPOSITED	100.00			
11/1/19	DEPOSITED	100.00			
11/2/19	DEPOSITED	100.00			
11/3/19	DEPOSITED	100.00			
11/4/19	DEPOSITED	100.00			
11/5/19	DEPOSITED	100.00			
11/6/19	DEPOSITED	100.00			
11/7/19	DEPOSITED	100.00			
11/8/19	DEPOSITED	100.00			
11/9/19	DEPOSITED	100.00			
11/10/19	DEPOSITED	100.00			
11/11/19	DEPOSITED	100.00			
11/12/19	DEPOSITED	100.00			
11/13/19	DEPOSITED	100.00			
11/14/19	DEPOSITED	100.00			
11/15/19	DEPOSITED	100.00			
11/16/19	DEPOSITED	100.00			
11/17/19	DEPOSITED	100.00			
11/18/19	DEPOSITED	100.00			
11/19/19	DEPOSITED	100.00			
11/20/19	DEPOSITED	100.00			
11/21/19	DEPOSITED	100.00			
11/22/19	DEPOSITED	100.00			
11/23/19	DEPOSITED	100.00			
11/24/19	DEPOSITED	100.00			
11/25/19	DEPOSITED	100.00			
11/26/19	DEPOSITED	100.00			
11/27/19	DEPOSITED	100.00			
11/28/19	DEPOSITED	100.00			
11/29/19	DEPOSITED	100.00			
11/30/19	DEPOSITED	100.00			
12/1/19	DEPOSITED	100.00			
12/2/19	DEPOSITED	100.00			
12/3/19	DEPOSITED	100.00			
12/4/19	DEPOSITED	100.00			
12/5/19	DEPOSITED	100.00			
12/6/19	DEPOSITED	100.00			
12/7/19	DEPOSITED	100.00			
12/8/19	DEPOSITED	100.00			
12/9/19	DEPOSITED	100.00			
12/10/19	DEPOSITED	100.00			
12					

TOOLS USED

DATES		TEST TO		TEST TO	
From	To	From	To	From	To

2770

[illegible]

FORMALDOX 2000

FROM-	TO-	TOTAL FEET	FORMATION
0	5873	5873	Gravel
5873	5871	5871	Gravel - 100'
5871	5870	5870	Gravel - 100'
5870	5868	5868	Gravel - 100'
5868	5867	5867	Gravel - 100'
5867	5866	5866	Gravel - 100'
5866	5865	5865	Gravel - 100'
5865	5864	5864	Gravel - 100'
5864	5863	5863	Gravel - 100'
5863	5862	5862	Gravel - 100'
5862	5861	5861	Gravel - 100'
5861	5860	5860	Gravel - 100'
5860	5859	5859	Gravel - 100'
5859	5858	5858	Gravel - 100'
5858	5857	5857	Gravel - 100'
5857	5856	5856	Gravel - 100'
5856	5855	5855	Gravel - 100'
5855	5854	5854	Gravel - 100'
5854	5853	5853	Gravel - 100'
5853	5852	5852	Gravel - 100'
5852	5851	5851	Gravel - 100'
5851	5850	5850	Gravel - 100'
5850	5849	5849	Gravel - 100'
5849	5848	5848	Gravel - 100'
5848	5847	5847	Gravel - 100'
5847	5846	5846	Gravel - 100'
5846	5845	5845	Gravel - 100'
5845	5844	5844	Gravel - 100'
5844	5843	5843	Gravel - 100'
5843	5842	5842	Gravel - 100'
5842	5841	5841	Gravel - 100'
5841	5840	5840	Gravel - 100'
5840	5839	5839	Gravel - 100'
5839	5838	5838	Gravel - 100'
5838	5837	5837	Gravel - 100'
5837	5836	5836	Gravel - 100'
5836	5835	5835	Gravel - 100'
5835	5834	5834	Gravel - 100'
5834	5833	5833	Gravel - 100'
5833	5832	5832	Gravel - 100'
5832	5831	5831	Gravel - 100'
5831	5830	5830	Gravel - 100'
5830	5829	5829	Gravel - 100'
5829	5828	5828	Gravel - 100'
5828	5827	5827	Gravel - 100'
5827	5826	5826	Gravel - 100'
5826	5825	5825	Gravel - 100'
5825	5824	5824	Gravel - 100'
5824	5823	5823	Gravel - 100'
5823	5822	5822	Gravel - 100'
5822	5821	5821	Gravel - 100'
5821	5820	5820	Gravel - 100'
5820	5819	5819	Gravel - 100'
5819	5818	5818	Gravel - 100'
5818	5817	5817	Gravel - 100'
5817	5816	5816	Gravel - 100'
5816	5815	5815	Gravel - 100'
5815	5814	5814	Gravel - 100'
5814	5813	5813	Gravel - 100'
5813	5812	5812	Gravel - 100'
5812	5811	5811	Gravel - 100'
5811	5810	5810	Gravel - 100'
5810	5809	5809	Gravel - 100'
5809	5808	5808	Gravel - 100'
5808	5807	5807	Gravel - 100'
5807	5806	5806	Gravel - 100'
5806	5805	5805	Gravel - 100'
5805	5804	5804	Gravel - 100'
5804	5803	5803	Gravel - 100'
5803	5802	5802	Gravel - 100'
5802	5801	5801	Gravel - 100'
5801	5800	5800	Gravel - 100'
5800	5799	5799	Gravel - 100'
5799	5798	5798	Gravel - 100'
5798	5797	5797	Gravel - 100'
5797	5796	5796	Gravel - 100'
5796	5795	5795	Gravel - 100'
5795	5794	5794	Gravel - 100'
5794	5793	5793	Gravel - 100'
5793	5792	5792	Gravel - 100'
5792	5791	5791	Gravel - 100'