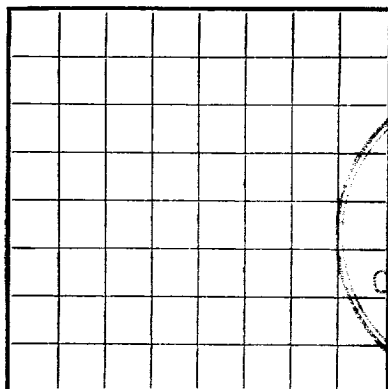


4-U.S.G.S.
1-W. R. Johnston
1-FileBudget Bureau No. 42-R-355.3.
Approval expires 12-31-55.U. S. LAND OFFICE JicarillaSERIAL NUMBER Cont # 58

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
FEB 2 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 StreetLessor or Tract Jicarilla Indian Field Wildcat State New MexicoWell No. 0 11 Sec. 33 T. 29N R. 3W Meridian N.M.P.M. County Rio ArribaLocation 990 ft. N of Sec. Line and 1650 ft. E of Sec. Line of Sec. 33 Elevation 7020
(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. Original signed by T. A. Dugan
Signed _____Date January 24, 1956 Title District Engineer

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

Commenced drilling 6 25, 1955. Finished drilling 7 30, 1955.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3495 to 3680 No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDSNo. 1, from NONE to 3680 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
							From—	To—	
<u>8-5/8</u>		<u>8Rd.</u>	<u>Baker</u>	<u>1</u>	<u>Guide</u>				
<u>8-5/8</u>	<u>32.30</u>	<u>8Rd.</u>	<u>Lone Star</u>	<u>232.60</u>					
<u>5-1/2</u>	<u>14</u>	<u>8Rd.</u>	<u>Lone Star</u>	<u>3524.17</u>					
See reverse side for casing and plug back.									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>243.00</u>	<u>80 ex 8% gel</u>	<u>Halliburton</u>		
<u>5-1/2</u>	<u>3500.00</u>	<u>75 ex regular</u>	<u>Halliburton</u>		

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 3940 feet, and from _____ feet to _____ feet

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

DATES

Released Rig 7-30, 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. Well-Plugged

EMPLOYEES

Robert E. Mize Drilling Foreman, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>3310</u>	<u>3310</u>	<u>Surface</u>
<u>3310</u>	<u>3380</u>	<u>70</u>	<u>Ojo Alamo - Sand</u>
<u>3380</u>	<u>3497</u>	<u>117</u>	<u>Kirtland - Shale w/some sand</u>
<u>3497</u>	<u>3618</u>	<u>121</u>	<u>Fruitland - Interbedded sand, shale and coal</u>
<u>3618</u>	<u>3875</u>	<u>257</u>	<u>Pictured Cliff - Sand</u>
<u>3875</u>	<u>3940</u>	<u>65</u>	<u>Lewis - Shale</u>
<u>3940</u>	<u>—</u>	<u>3940</u>	<u>Total Depth</u>

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 restrict or alter the flow of material used, position, and results of pumping or bailing.

7/29/55 gaged 117 MCF. At 6:30 to 6:45 A.M. 7-29-55 same rate. Spotted 70 ex cement plug from 3650 to 3724 and cemented free point, shot casing at 1316, then filled w/heavy mud to 1360 and spotted 25 ex cement from 1360 to 1279 then filled with heavy mud to 242. Then 25 ex plug to 167, filled w/heavy mud with 30 ex plug to surface and then sit prescribed 4" x 4" water.

July 29 from 10:15 to 10:45 avg gage 167 MCF blow hole and gaged from 3:00 to 3:30 A.M. for 15 minutes. Avg. injection rate 41 B.P.M. at 9:00 P.M. 7/28/55, jotted hole dry. Total depth 3650', and from 3500-3650 w/10,000 gallons w/1" sand/gallon. Treating pressure 1700# increase to 700# and decreased to 500# final, flowed back full 2" stream per 15 minutes. Avg. injection rate 41 B.P.M. at 9:00 P.M. 7/28/55, jotted hole dry.

HISTORY OF OIL OR GAS WELL			
FROM-	TO-	TOTAL FEET	FORMATION
0	3650	3650	SPOTTED 70 EX CEMENT PLUG FROM 3650 TO 3724 AND CEMENTED FREE POINT, SHOT CASING AT 1316, THEN FILLED W/HEAVY MUD TO 1360 AND SPOTTED 25 EX CEMENT FROM 1360 TO 1279 THEN FILLED WITH HEAVY MUD TO 242. THEN 25 EX PLUG TO 167, FILLED W/HEAVY MUD WITH 30 EX PLUG TO SURFACE AND THEN SIT PRESCRIBED 4" X 4" WATER.
3650	3724	74	
3724	3800	76	
3800	3900	100	
3900	4000	100	
4000	4100	100	
4100	4200	100	
4200	4300	100	
4300	4400	100	
4400	4500	100	
4500	4600	100	
4600	4700	100	
4700	4800	100	
4800	4900	100	
4900	5000	100	
5000	5100	100	
5100	5200	100	
5200	5300	100	
5300	5400	100	
5400	5500	100	
5500	5600	100	
5600	5700	100	
5700	5800	100	
5800	5900	100	
5900	6000	100	
6000	6100	100	
6100	6200	100	
6200	6300	100	
6300	6400	100	
6400	6500	100	
6500	6600	100	
6600	6700	100	
6700	6800	100	
6800	6900	100	
6900	7000	100	
7000	7100	100	
7100	7200	100	
7200	7300	100	
7300	7400	100	
7400	7500	100	
7500	7600	100	
7600	7700	100	
7700	7800	100	
7800	7900	100	
7900	8000	100	
8000	8100	100	
8100	8200	100	
8200	8300	100	
8300	8400	100	
8400	8500	100	
8500	8600	100	
8600	8700	100	
8700	8800	100	
8800	8900	100	
8900	9000	100	
9000	9100	100	
9100	9200	100	
9200	9300	100	
9300	9400	100	
9400	9500	100	
9500	9600	100	
9600	9700	100	
9700	9800	100	
9800	9900	100	
9900	10000	100	