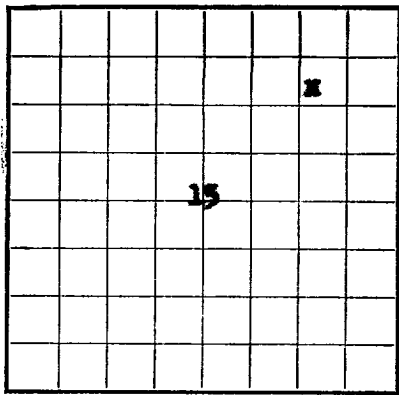


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **57-079904**
LEASE OR PERMIT TO PROSPECT
14-08-001-446

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company **PACIFIC NORTHWEST PIPELINE CORPORATION** Press **405 1/2 W. Broadway, Farmington,**
Lessor or Tract **32-8** Field **Blanco Mesa Verde** State **New Mexico**
Well No. **21-15** Sec. **15** T. **31N** R. **8W** Meridian **N.M.P.M.** County **San Juan**
Location **960'** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
(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 **T. A. Dwyer** Per **H. H. P.**

Date **July 8, 1957** Title **Division Manager**

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

Commenced drilling **May 24,** 19 **57** Finished drilling **June 5,** 19 **57**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
No. 1, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 2, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 3, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 4, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 5, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 6, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 7, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 8, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 9, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**
No. 10, from **0** to **2000** ft. **(S)** of **N** Line and **1146'** **(W)** of **E** Line of **Section 15** Elevation **6569'**

CASING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	203.15'	220	Pump Plug		
7-3/8"	3742.75'	200	Pump Plug		
5-1/2"	5952.83'	200	Pump Plug		

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	203.15'	220	Pump Plug		
7-3/8"	3742.75'	200	Pump Plug		
5-1/2"	5952.83'	200	Pump Plug		

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 **5952'** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

June 17, 19 **57** 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 **3,470,000** Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. **2000** Casing **948** CACF **3,717**
Shut in 7 days

EMPLOYEES _____, Driller _____, Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2235'	2235'	Surface
2235'	2280'	45'	Ojo Alamo
2280'	3050'	770'	Kirtland
3050'	3430'	380'	Fruitland
3430'	3650'	220'	Pictured Cliffs
3650'	5390'	1740'	Lewis
5390'	5430'	40'	Cliff House
5430'	5750'	320'	Manefee
5750'	TD	200'	Point Lookout
5950'			Total Depth
5938'			Plug Back Total Depth

FORMATION RECORD—Continued

Company PACIFIC NORTHWEST PIPELINE CORPORATION
Field Office 1000 1st Avenue, Seattle, Washington
Well No. 21-12 Sec. 12, T. 31N. R. 3W. Meridian 2.M.P.M.
Location 200 ft. of 2. Line and 11 ft. of 3. Line of Section 12
Elevation 6560'
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 _____ Title _____ Date _____

The summary on this page is for the condition of the well at above date.
Max Deviation 170° @ 2650', and 280°
Commenced drilling _____
Finished drilling _____
No Cores _____

OIL OR GAS SANDS OR ZONES
Spaced section, 3000, to 3600, and 3600, to 3900, and 3900, to 4200, and 4200, to 4500, and 4500, to 4800, and 4800, to 5100, and 5100, to 5400, and 5400, to 5700, and 5700, to 6000, and 6000, to 6300, and 6300, to 6600, and 6600, to 6900, and 6900, to 7200, and 7200, to 7500, and 7500, to 7800, and 7800, to 8100, and 8100, to 8400, and 8400, to 8700, and 8700, to 9000, and 9000, to 9300, and 9300, to 9600, and 9600, to 9900, and 9900, to 10200, and 10200, to 10500, and 10500, to 10800, and 10800, to 11100, and 11100, to 11400, and 11400, to 11700, and 11700, to 12000, and 12000, to 12300, and 12300, to 12600, and 12600, to 12900, and 12900, to 13200, and 13200, to 13500, and 13500, to 13800, and 13800, to 14100, and 14100, to 14400, and 14400, to 14700, and 14700, to 15000, and 15000, to 15300, and 15300, to 15600, and 15600, to 15900, and 15900, to 16200, and 16200, to 16500, and 16500, to 16800, and 16800, to 17100, and 17100, to 17400, and 17400, to 17700, and 17700, to 18000, and 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