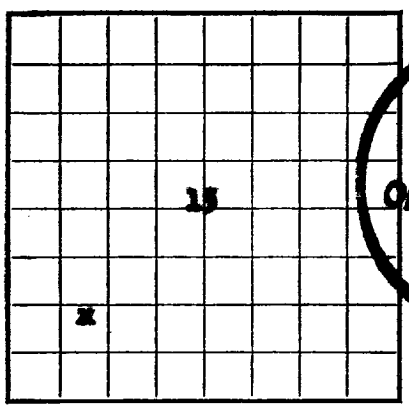
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER N.M. 03402
LEASE OR PERMIT TO PROSPECT
14-08-001-446



LOCATE WELL CORRECTLY

4- USGS
1- H.E. Johnston
2- [illegible]

RECEIVED
OCT 3 1956
OIL CON. COM.
DIST. 3

RECEIVED
SEP 6 1956
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pacific Northwest Pipeline Corp. Address 1051 W. Broadway, Farmington, N.M.

Lessor or Tract Navajo 12-G Field Blanco M.V. State New Mexico

Well No. 16-15 Sec. 15 T. 31N R. 8W Meridian NMPM County San Juan

Location 1190 ft. {N.} of S Line and 890 ft. {E.} of E Line of Sec. 15 Elevation 6445.6 (Derrick floor)

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 July 27, 1956 Title District Engineer

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

Commenced drilling 6-13, 19 56 Finished drilling 7-9, 1956

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from [illegible] to [illegible] No. 4, from [illegible] to [illegible]

No. 2, from [illegible] to [illegible] No. 5, from [illegible] to [illegible]

No. 3, from [illegible] to [illegible] No. 6, from [illegible] to [illegible]

IMPORTANT WATER SANDS

No. 1, from [illegible] to [illegible] No. 3, from [illegible] to [illegible]

No. 2, from [illegible] to [illegible] No. 4, from [illegible] to [illegible]

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	8rd	-	214.39	Baker Patch.				
7 5/8	26.40	8rd	-	2550.0	Baker Patch.				
5 1/2	15.50	8rd	-	5630.0	Baker Patch.				
5 1/2	15.50	8rd	-	5630.0	Baker Float Collar				
2 3/8	4.7	8rd	-	5130.0	Baker Mule Shoe EUE				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	228.39	225	Halliburton		
7 5/8	2550.0	200	"		
5 1/2	5630.0	200	"		

FOLD | MARK

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 5630 feet, and from ____ feet to ____ feet

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

DATES

7-9-56, 19__ 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 5,131 Gal. Gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. SICP 1042#, SITP 1062# Tested 7-19-56 3 hr. open flow thru 3/4 " choke, shut in 7 days

EMPLOYEES

Jim Keenan Drilling Engineer, Driller ____, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2135	2135	Surface
2135	2232	97	Ojo Alamo- Sand
2232	3016	784	Kirtland- Shale w/some sand
3016	3353	337	Fruitland- Interbedded shale and coal.
3353	3469	116	Pictured Cliffs- Sand
3469	5207	1738	Lewis- Shale
5207	5311	104	Cliff House- Sand
5311	5620	309	Menefee- Interbedded sand, shale and coal
5620	5830	210	Point Lookout- Sand.
5830			Total Depth

[OVER]

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			Drillers
			Drillers

EMPLOYEES

Rock pressure, lbs. per sq. in. ____ hours ____ lbs.

H ____ was well ____ lbs. per 24 hours ____ gallons per 1,000 cu. ft. of gas ____

Commenced drilling ____ 19__ Finished drilling ____ 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 ____

DATES

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

Rotary tools were used from 0 feet to 2533 feet, and from ____ feet to ____ feet

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 ____

EMPLOYEES

Rock pressure, lbs. per sq. in. ____ hours ____ lbs.

TOOLS USED

Rotary tools were used from 0 feet to 2533 feet, and from ____ feet to ____ feet

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

DATES

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 ____

EMPLOYEES

Rock pressure, lbs. per sq. in. ____ hours ____ lbs.

TOOLS USED

Rotary tools were used from 0 feet to 2533 feet, and from ____ feet to ____ feet

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

DATES

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 ____

EMPLOYEES

Rock pressure, lbs. per sq. in. ____ hours ____ lbs.

TOOLS USED

Rotary tools were used from 0 feet to 2533 feet, and from ____ feet to ____ feet

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

DATES

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 ____

EMPLOYEES

Rock pressure, lbs. per sq. in. ____ hours ____ lbs.

TOOLS USED

Rotary tools were used from 0 feet to 2533 feet, and from ____ feet to ____ feet

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

DATES

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 ____

EMPLOYEES

Rock pressure, lbs. per sq. in. ____ hours ____ lbs.

TOOLS USED

Rotary tools were used from 0 feet to 2533 feet, and from ____ feet to ____ feet

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

DATES

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 ____

EMPLOYEES

Rock pressure, lbs. per sq. in. ____ hours ____ lbs.

TOOLS USED

Size	Kind used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

SHOOTING RECORD

Adapters—Material ____ Size ____

Heaving plug—Material ____ Length ____ Depth set ____

PLUGS AND ADAPTERS

Size	Where set	Number sacks of cement	Method used	Mud fluid	Amount of mud used
10 3/4"	252'	225	Halliburton		
7 5/8"	3250'-0250'	200	"		
5 1/2"	5700'	250	"		

MUDDING AND CEMENTING RECORD

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 the results obtained. 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.

Size casing	Wt. per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
10 3/4"	32.75	8rd	-	252.28	8rd Baker				Surface
7 5/8"	26.40	8rd	-	3250.00	8rd Baker				Intermediate
5 1/2"	15.50	8rd	-	5700.00	8rd Baker				Production

Total Depth 5800'. Perf. 5706-18', 5722-26', 5728-34', 5736-42', 5744-56', 5766-74', 5778-80', 5782-88', Cmpltd shots/ft. Frac LPL w/51,490 gals water only, No. 5' [illegible], avg 1290#, max 1400#, final 1285#, 40 vac. IR 55.6 BPM. Perf. 5624-34', 5662-68', 5670-74', 5678-92', w/2 bullets/ft. set BP at 5700', and frac LPL w/51,490 gals water only BD 1650#, avg 1760#, max 1775#, final 1775#, 40 vac. IR 60 BPM. Retrieved BP. Perf. 5390-5400', 5436-40', 5446-60', 5480-96', 5502-10', 5550-64', w/ 2 shots/ft. set BP at 5600', and frac Mesaverde w/52,500 gals. water only BD 1900#, avg 1750#, max 1775#, final 1775#, 40 vac. IR 62.5 BPM, Perf 5260-64', 5270-78', 5288-98', 5302-20', w/2 shots/ft. perf. 5346-52', 5360-74', 5380-86', w/3 shots/ft. set BP at 5392', and frac Cliff House w/52,500 gals water only, BD 1200#, avg 1775#, max 1800#, final 1800# to vac. IR 62.5 BPM. Retrieved BP's and cleaned out to total depth, set tubing and completed well, released rig 10:30 PM 7-29-56.

(Please see page 2)

Commenced drilling 6-1-56 Finished drilling 7-9-56

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

Date July 31, 1956 Title Petroleum Engineer

Original signed by J. A. Dodge

Signed

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.

Location 1745' ft. (N.) (S.) of East Line and 845' ft. (W.) (E.) of North Line of Sec. 12 Elevation 6715' G.L.

Well No. 14-12 Sec. 12 T. 31N. R. 9W. Meridian NMPM County San Juan

Lessor or Tract [illegible] Field Blanco P.C. State New Mexico

Company [illegible] Address [illegible]

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
OCT 3 1956
OIL CON. COM.
DIST. 3

RECEIVED
SEP 6 1956

U. S. LAND OFFICE [illegible]
SERIAL NUMBER [illegible]
LEASE OR PERMIT TO PROSPECT [illegible]

FORM 9-330

Approved expires 12-31-55.
Budget Bureau No. 42-R-355.5.