

U.S.G.S.
L.W.R. Johnston
2-G.C. Rogers
1-FileBudget Bureau No. 42-R-355.3.
Approval expires 12-31-55.U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 978469
LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
FEB 27 1956
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company PACIFIC NORTHWEST PIPELINE CORP. Address 413 1/2 West Main, Farmington, N.M.
Lessor or Tract Unit 32-7 Field Alamo State New Mexico
Well No. 14-20 Sec. 20 T. 32N R. 7W Meridian N.M.P.M. County SAN JUAN
Location 1650 ft. S of Sec. Line and 990 ft. W of Sec Line of Sec 20 Elevation 6215
(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 February 10, 1956 Title District Engineer

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

Commenced drilling 10 25, 1955 Finished drilling 11 25, 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5262 to 5720 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 5262 to 5720 No. 2, from _____ to _____
No. 3, 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	Run in	Time	Purpose
10-3/4	32.75	8.75	J. & L.	267.95	Guide				
10-3/4	34.58	8.75	Halliburton	30	Guide				
7-5/8	34.58	8.75	Halliburton	30	Guide				
7-5/8	34.58	8.75	Halliburton	30	Guide				
5-1/2	14.8	8.75	C.T. 5745	30	Guide				
5-1/2	14.8	8.75	C.T. 5745	30	Guide				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	260.75	162 ex 45 gal	Halliburton		
7-5/8	3458	150 ex 85 50 ex 80	Halliburton		
5-1/2	5745	150 ex 25 gal	Halliburton		
2-3/8	5697.23	tubing			

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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable 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; _____%
emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
If gas well _____ ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

SICP 12044 EMPLOYEES 12044

_____, Driller _____, Driller
Guy M. Lehan, Drilling Foreman _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1982	1982	Surface
1982	2120	138	Ojo Alamo - Sand
2120	2780	660	Jirtland - Shale w/some sand
2780	3183	403	Fruitland - Interbedded sand, shale and coal.
3183	3420	237	Pictured Cliffs - Sand
3420	5227	1807	Lewis - Shale
5227	5275	48	Cliff House - Sand
5275	5521	246	Menefee - Interbedded sand shale and coal.
5521	5745	224	Point Lookout - Sand
5745	—	5745	Total Depth

FROM—

TO—

TOTAL FEET

(OVER)

FORMATION

16-43094-8

FORMATION RECORD—Continued

A large rectangular area containing a grid of small squares, similar to graph paper, intended for drawing or writing.

LOCATE WELL CORRECTLY

OIL OR GAS SANDS OR ZONES

(Denote φ by ϕ)

100-443887-100

MISSION OF OH OR GAS WELL

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PLUGS AND ADAPTERS

SHOOTING RECORD

TOOLS USED	
1. 1000' steel tape	
2. 100' steel tape	
3. 50' steel tape	
4. 25' steel tape	
5. 10' steel tape	
6. 5' steel tape	
7. 1' steel tape	
8. 1/2' steel tape	
9. 1/4' steel tape	
10. 1/8' steel tape	
11. 1/16' steel tape	
12. 1/32' steel tape	
13. 1/64' steel tape	
14. 1/128' steel tape	
15. 1/256' steel tape	
16. 1/512' steel tape	
17. 1/1024' steel tape	
18. 1/2048' steel tape	
19. 1/4096' steel tape	
20. 1/8192' steel tape	
21. 1/16384' steel tape	
22. 1/32768' steel tape	
23. 1/65536' steel tape	
24. 1/131072' steel tape	
25. 1/262144' steel tape	
26. 1/524288' steel tape	
27. 1/1048576' steel tape	
28. 1/2097152' steel tape	
29. 1/4194304' steel tape	
30. 1/8388608' steel tape	
31. 1/16777216' steel tape	
32. 1/33554432' steel tape	
33. 1/67108864' steel tape	
34. 1/134217728' steel tape	
35. 1/268435456' steel tape	
36. 1/536870912' steel tape	
37. 1/1073741824' steel tape	
38. 1/2147483648' steel tape	
39. 1/4294967296' steel tape	
40. 1/8589934592' steel tape	
41. 1/17179869184' steel tape	
42. 1/34359738368' steel tape	
43. 1/68719476736' steel tape	
44. 1/137438953472' steel tape	
45. 1/274877906944' steel tape	
46. 1/549755813888' steel tape	
47. 1/1099511627776' steel tape	
48. 1/2199023255552' steel tape	
49. 1/4398046511104' steel tape	
50. 1/8796093022208' steel tape	
51. 1/17592186044416' steel tape	
52. 1/35184372088832' steel tape	
53. 1/70368744177664' steel tape	
54. 1/140737488355328' steel tape	
55. 1/281474976710656' steel tape	
56. 1/562949953421312' steel tape	
57. 1/1125899906842624' steel tape	
58. 1/2251799813685248' steel tape	
59. 1/4503599627370496' steel tape	
60. 1/9007199254740992' steel tape	
61. 1/18014398509481984' steel tape	
62. 1/36028797018963968' steel tape	
63. 1/72057594037927936' steel tape	
64. 1/144115188075855872' steel tape	
65. 1/288230376151711744' steel tape	
66. 1/576460752303423488' steel tape	
67. 1/1152921504606846976' steel tape	
68. 1/2305843009213693952' steel tape	
69. 1/4611686018427387904' steel tape	
70. 1/9223372036854775808' steel tape	
71. 1/18446744073709551616' steel tape	
72. 1/36893488147419103232' steel tape	
73. 1/73786976294838206464' steel tape	
74. 1/147573952589676412928' steel tape	
75. 1/295147905179352825856' steel tape	
76. 1/590295810358705651712' steel tape	
77. 1/1180591620717411303424' steel tape	
78. 1/2361183241434822606848' steel tape	
79. 1/4722366482869645213696' steel tape	
80. 1/9444732965739290427392' steel tape	
81. 1/18889465931478580854784' steel tape	
82. 1/37778931862957161709568' steel tape	
83. 1/75557863725914323419136' steel tape	
84. 1/151115727451828646838272' steel tape	
85. 1/302231454903657293676544' steel tape	
86. 1/604462909807314587353088' steel tape	
87. 1/1208925819614629174706176' steel tape	
88. 1/2417851639229258349412352' steel tape	
89. 1/4835703278458516698824704' steel tape	
90. 1/9671406556917033397649408' steel tape	
91. 1/19342813113834066795298816' steel tape	
92. 1/38685626227668133590597632' steel tape	
93. 1/77371252455336267181195264' steel tape	
94. 1/154742504910672534362390528' steel tape	
95. 1/309485009821345068724781056' steel tape	
96. 1/618970019642690137449562112' steel tape	
97. 1/1237940039285380274899124224' steel tape	
98. 1/2475880078570760549798248448' steel tape	
99. 1/4951760157141521099596496896' steel tape	
100. 1/9903520314283042199192993792' steel tape	

DATE

DATE

EMPLOYEES

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL POTENTIAL TEST-DATA SHEET

FORM C-122-B

3-MMC
1-M. R. Johnston
1-Outler
1-Hollis 2- Phillips
1-Fowler

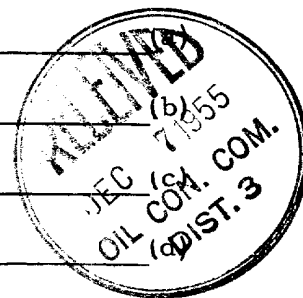
This form must be used for reporting all pitot tube tests made in the State. It is particularly important that it be used for reporting Initial Potential Tests in the San Juan Basin as prescribed by Order No. R-333 and by the New Mexico Oil Conservation Commission Manual of Tables and Procedure for Initial Potential (Pitot Tube) Tests.

POOL Blanco Mesa Verde FORMATION Mesa Verde
COUNTY San Juan DATE WELL TESTED 12/2/55

Operator Pacific Northwest Lease 32-7 Well No. 11-20
Unit
1/4 Section NE Letter N Sec. 20 Twp. 32N Rge. 7N
Casing: 7-5/8 "O.D. Set At 3458 Tubing 2" "WT. Set At 5695
Pay Zone: From 5242 to 5710 Gas Gravity: Meas. Est. .650
Tested Through: Casing Tubing X
Test Nipple 2.067 I.D. Type of Gauge Used X
(Spring) (Monometer)

OBSERVED DATA

Shut In Pressure: Casing 1205 Tubing: 1205 S. I. Period 7 days
Time Well Opened: 11:00 A Time Well Gauged: 2:00 P
Impact Pressure: 184 W/ 599 PSIG ON CSG
Volume (Table I) 2684
Multiplier for Pipe or Casing (Table II) 1.068
Multiplier for Flowing Temp. (Table III) 53° 1.0068
Multiplier for SP. Gravity (Table IV) 1.000
Ave. Barometer Pressure at Wellhead (Table V) 6215 11.8
Multiplier for Barometric Pressure (Table VI)994 (e)
Initial Potential, Mcf/24 Hrs. (a) x (b) x (c) x (d) x (e) = 2069/ ABS G. Flow 3,593



Witnessed by: _____ Tested by: O. R. Wagner
Company: _____ Company Pacific Northwest Pipeline Corp.
Title: _____ Title: Gas Tester

PACIFIC NORTHWEST PIPELINE CORPORATION

DRILLING DEPARTMENT

COMPANY Pacific Northwest

LEASE 32-7 WELL NO. 11-20

DATE OF TEST 12/2/55

SHUT-IN PRESSURE(PSIG): TUBING 1205 CASING 1205 S.I.PERIOD 7 DAYS

SIZE BLOW NIPPLE 2"

FLOW THROUGH 2.5 WORKING PRESSURES FROM _____

TIME		IMPACT PRESSURE	Q(MCFD)* 14.7 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)	
HOURS	MINUTES				
	34.5	32	3937	840	46
	42.5	30	3758	827	47
	50	29	3669	788	48
1	0	28	3579	760	49
	12	26	3460	732	51
	20.5	24	3291	675	52
2	5	21	2953	652	58
	30	20	2863	622	59
3	0	18	2601	576	59

* All rates of flow taken from nearest value found in Reid's Pitot Tables

REMARKS: Slightly wet with 11-20 through out test.

TESTED BY C. R. Leggett

