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1-Bill Cutler
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1-File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesa Verde County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 7-2-57
Company Pacific Northwest Pipeline Corporation Rosa Well No. 25-15
Unit N Sec. 15 Twp. 31N Rge. 6W Purchaser Not Connected
Casing 7 5/8 Wt. _____ I.D. _____ Set at 3430 5630-3332 Perf. 5234 To 5560
Tubing 5 1/4 Wt. _____ I.D. _____ Set at 5529 Perf. _____ To _____
Gas Pay: From 5234 To 5560 L _____ xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 6/25/57 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Packer) (Choke) X Shut In 7 days Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.		3/4	109		57°	136	57°	1196	867	3
2.						109				
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		121	1.0029	.9608	1.010	1456
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1208 P_c² 1459.3

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ² <u>879</u>	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.						772.6	686.7		2.13
2.									
3.									
4.									
5.									

Absolute Potential: 2,567 MCFPD; n .75/1.7631
COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 405 1/2 West Broadway
AGENT and TITLE C. R. Wagner - Well Test Engineer
WITNESSED _____
COMPANY _____

REMARKS

Tubing loaded with water.



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

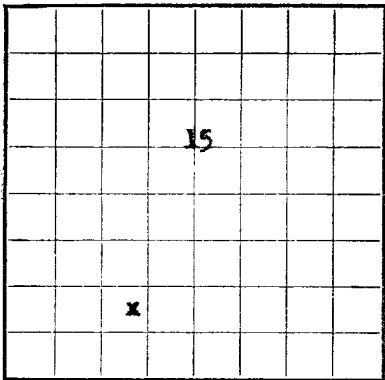
NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressibility factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

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U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF-078765
LEASE OR PERMIT TO PROSPECT 14-08-001-587



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company PACIFIC NORTHWEST PIPELINE CORP. Address 405 1/2 W. Broadway, Farmington
Lessor or Tract Rosa Field Blanco Mesa Verde State New Mexico
Well No. 25-15 Sec. 15 T. 31N R. 54E Meridian N.M.P.M. County Rio Arriba
Location 1140' ft. N. of 3 Line and 1700' ft. E. of R. Line of Section 15 Elevation 5157'
(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. Dugan per J. R. B.

Date July 10, 1957 Title Division Manager

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

Commenced drilling June 1, 1957 Finished drilling June 19, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 0 5234' to 5560' 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 None to _____ 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>10-3/4</u>	<u>32.75</u>	<u>8rd.</u>	<u>CF&I</u>	<u>233.34</u>	<u>Guide</u>				
<u>7-5/8</u>	<u>26.4</u>	<u>8rd.</u>	<u>CF&I</u>	<u>3419.70</u>	<u>Guide</u>				
<u>5-1/2</u>	<u>14.0</u>	<u>8rd.</u>		<u>2294.47</u>	<u>Float</u>				
<u>1-1/4</u>	<u>2.40</u>	<u>10rd.</u>		<u>5519.26</u>	<u>(Tubing)</u>				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4</u>	<u>243.64</u>	<u>232</u>	<u>Pump Plug</u>		
<u>7-5/8</u>	<u>3430</u>	<u>200</u>	<u>Pump Plug</u>		
<u>5-1/2</u>	<u>5630</u>	<u>200</u>	<u>Pump Plug</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 _____ feet to 5630' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

June 25, 1957 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 2,583.000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. Tubing 1200 Casing 1212 CACF 2,619

EMPLOYEES Shut in 7 days

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0'</u>	<u>2188'</u>	<u>2188'</u>	<u>Surface</u>
<u>2188'</u>	<u>2292'</u>	<u>104'</u>	<u>Ojo Alamo</u>
<u>2292'</u>	<u>2809'</u>	<u>517'</u>	<u>Hirtland</u>
<u>2809'</u>	<u>2980'</u>	<u>171'</u>	<u>Fruitland</u>
<u>2980'</u>	<u>3360'</u>	<u>380'</u>	<u>Pictured Cliffs</u>
<u>3360'</u>	<u>5121'</u>	<u>1761'</u>	<u>Lewis</u>
<u>5121'</u>	<u>5242'</u>	<u>121'</u>	<u>Cliff House</u>
<u>5242'</u>	<u>5460'</u>	<u>218'</u>	<u>Manefee</u>
<u>5460'</u>	<u>TD</u>	<u>170'</u>	<u>Print Lookout</u>
<u>5630'</u>			<u>Total Depth</u>
<u>5627'</u>			<u>Plug Back Total Depth</u>

