

NM OCC-3
Truby-1
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File-1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Pictured Cliffs County San Juan
Initial XX Annual _____ Special _____ Date of Test 4-11-57
Company Northwest Production Corp Lease Blanco 30-12 Well No. 12-4
Unit 0 Sec. 4 Twp. 30N Rge. 12W Purchaser Not connected
Casing 4 1/2 Wt. 9.5 I.D. _____ Set at 2133 Perf. 2076 To 2084
Tubing 1 1/2 Wt. 2.3 I.D. _____ Set at 2080 Perf. _____ To _____
Gas Pay: From 2076 To 2084 L _____ xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing XX Type Well Single - G
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 3-28-57 Packer No Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) 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.		<u>3/4</u>	<u>16</u>		<u>71</u>	<u>629</u> <u>16</u>	<u>71</u>	<u>629</u> <u>284</u>		<u>81</u> <u>3 hrs</u>
2.										
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.	<u>14.1605</u>		<u>28</u>	<u>.9896</u>	<u>.9608</u>	<u>1.000</u>	<u>377</u>
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 641 P_c² 410.9

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	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						<u>87.6</u>	<u>323.3</u>		<u>1.27</u>
2.									
3.									
4.									
5.									

Absolute Potential: 446 MCFPD; n .85/1.1821

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 W. Broadway, Farmington, New Mexico
AGENT and TITLE C.R. Wagner - Well Test Engineer
WITNESSED _____
COMPANY _____

REMARKS



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} = Supercompressability 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 .

DRILLING DEPARTMENT

COMPANY **Northwest Production Corp.**

LEASE Blanco 30-12 WELL NO. 12-4

DATE OF TEST **4-11-57**

SHUT IN PRESSURE (PSIG): TUBING **6294** CASING **6294** S. I. PERIOD **11** DAYS

SIZE BLOW NIPPLE 3/4" Choke (Bureau of Mines)

FLOW THROUGH Tubing - 3/4" CK WORKING PRESSURES FROM Casing

[illegible]

START AT 9:35 AM

END TEST AT 12:35 PM

REMARKS: At 2 hrs & 20 mins - well would die and then unload slug of H₂O and blow approx 20 min and then repeat.

Very wet through out test

TESTED BY **C. R. Wagner**

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