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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Mesaverde Extn Formation Mesaverde County San Juan
Initial XX Annual _____ Special _____ Date of Test 4-11-57
Company Northwest Production Corp. Lease Blanco 30-12 Well No. 1-4
Unit A Sec. 4 Twp. 30N Rge. 12W Purchaser Not connected
Casing 5½ Wt. 14# I.D. _____ Set at 4645 Perf. 4578 To 4630
Tubing 2-3/8 Wt. 4.70# I.D. 1.995 Set at 4602 Perf. _____ To _____
Gas Pay: From 4578 To 4778 L 4602 xG .650 -GL 2991 Bar.Press. 12
Producing Thru: Casing _____ Tubing XX Type Well Dual - G-G
Date of Completion: 4-3-57 Packer Yes - 4500 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Plotted) (Choke) (Meter)/ Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Plotted) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI						1001	622	SI
1.		3/4	42		70	42	624	3 hr
2.								
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	14.1605		54	.9905	.9608	1.000	728
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

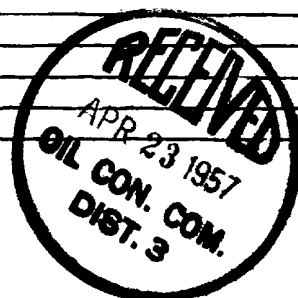
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) .195
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1013 P_c 1026.2

No.	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.	54	2916	6.84	46.8	9.13	12.05	1014.15	318	1.01
2.									
3.									
4.									
5.									

Absolute Potential: 733 MCFPD; n .75/1.0074

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405½ W. Broadway, Farmington, New Mexico
AGENT and TITLE C. E. 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 .

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DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE Blanco 30-12 WELL NO. 1-4

DATE OF TEST 4-11-57

SHUT IN PRESSURE (PSIG): TUBING ^{MV}1001 CASING ^{FR}622 S. I. PERIOD 7 DAYS

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

FLOW THROUGH Tubing - Mesaverde WORKING PRESSURES FROM Fruitland

[illegible]

START AT 9:55 am END TEST AT 12:55 pm

REMARKS: Blowing sand with heavy fog of H₂O

TESTED BY **C. R. Wagner**

OIL CONSERVATION COMMISSION

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