

NM OCC-3
Peppin-1
Tryby-
File-1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco MV Formation Mesaverde County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 6-4-57
Company Northwest Production Corp. Lease "N" Well No. 5-6
Unit L Sec. 6 Twp. 26N Rge. 4W Purchaser Not connected
Casing 5 1/4 Wt. 15.5 & 14 I.D. _____ Set at 6152 Perf. 5506 To 6120
Tubing 2-3/8 Wt. 4.7 I.D. _____ Set at 6045 Perf. _____ To _____
Gas Pay: From 5506 To 6120 L 6045 xG Est 0.70 -GL 4232 Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Dual - G-G
Date of Completion: 5-27-57 Packer Yes - 5402.65 Reservoir Temp. _____

OBSERVED DATA

Tested Through (Plotted) (Choke) (Plotted) 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.	Press. psig	Temp. °F.	
SI						1120		1069		Shut in
1.		3/4	134		60			1071		3 hours
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		146	1.00	.9258	1.016	1945
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

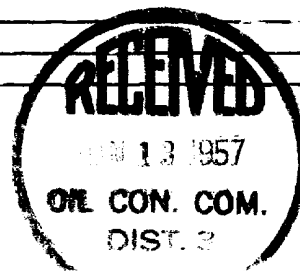
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-S}) 0.265
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1132 P_c² 1,281,424

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.	146	21320	18287	334414	88620	109,940	1,171,484		1.0938
2.									
3.									
4.									
5.									

Absolute Potential: 2080 MCFPD; n .75/1.0695

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 W. Broadway, Farmington, N.M.
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 "N" WELL NO. 5-6

DATE OF TEST 6-4-57

SHUT IN PRESSURE (PSIG): TUBING 1120 CASING 1069 S. I. PERIOD 7 DAYS

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

FLOW THROUGH Tubing WORKING PRESSURES FROM Casing

TIME		CHOKE	Q (MCFD)	WELLHEAD WORKING	
HOURS	MINUTES	PRESSURE	15.025 PSIA & 60°F	PRESSURE (PSIG)	TEMP
	30	763		1071	61
1	0	450		1071	61
	30	166		1071	60
2	0	152		1071	60
	30	142		1071	60
3	0	134		1071	60

START AT: 10:15 am END TEST AT 1:15 pm

REMARKS: Heavy fog of H₂O at 1 1/2 hours



TESTED BY: C. R. Wagner

WITNESS: _____

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓