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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco MV Extn Formation Mesaverde County Rio Arriba
Initial XX Annual _____ Special _____ Date of Test 4-15-57
Company Northwest Production Corp Lease "C" Well No. 2-29
Unit L Sec. 29 Twp. 26N Rge. 4W Purchaser Not connected
Casing 5 Wt. 11.5, 13 I.D. _____ Set at 7800 Perf. 4996 To 5590
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 7657 Perf. _____ To _____
Gas Pay: From 4996 To 5590 L 4996 xG .650 -GL 3247 Bar.Press. 12
Producing Thru: Casing XX Tubing _____ Type Well Dual - G-G
Date of Completion: 3-31-57 Packer Yes - 7494 Single-Bradenhead-G. G. or G.O. Dual
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						2050		1288		SI
1.		3/4	89		58	2061		89	58	3 hrs
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.	14.1605		101	1.0019	.9608	1.000	1377
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
 F_c .651 ($1-e^{-s}$) .210

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 1300 P_c^2 1690

No.	P_w P_t (psia)	P_c^2 P_t	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2$ ($1-e^{-s}$)	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	P_w P_c
1.									
2.									
3.									
4.	89	7.9	.896	.802	.168	8.1	1681.9		1.005
5.									

Absolute Potential: 1377 31 MCFPD; n 75/1.00COMPANY Pacific Northwest Pipeline Corp.ADDRESS 405 1/2 W. Broadway, Farmington, New MexicoAGENT and TITLE C. J. 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 "C" WELL NO. 2-29

DATE OF TEST 4-15-57

SHUT IN PRESSURE (PSIG): TUBING 2050 CASING 1288 S. I. PERIOD 7 DAYS

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

FLOW THROUGH Casing - Mesaverde WORKING PRESSURES FROM Tubing - Dakota

TIME		PRESSURE	Q (MCFD) 15.025 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)	TEMP
HOURS	MINUTES				
	30	131		1994 Dakota	53
1	0	110		2054	56
	30	100		2062	57
2	0	95		2065	57
	30	92		2063	58
3	0	89		2061	58

START AT 10:55 am END TEST AT 1:55 pm

REMARKS: Dry

TESTED BY C. R. Wagner

RELEASED

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DIST. 8

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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