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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 Formation Mesaverde County Rio Arriba

Initial XX Annual ____ Special ____ Date of Test 8-9-57

Company Northwest Production Corp. Lease "E" Well No. 7-28

Unit B Sec. 28 Twp. 26N Rge. 3W Purchaser Not connected

Casing 5½ Wt. 14 & 15.5 I.D. ____ Set at 6277 Perf. 5640 To 6190

Tubing 2-3/8 Wt. 4.7 I.D. ____ Set at 6180 Perf. ____ To ____

Gas Pay: From 5640 To 6190 L 6180 xG .650 -GL 4017 Bar.Press. ____

Producing Thru: Casing ____ Tubing XX Type Well Dual - G-G
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 7-7-57 Packer 5479'. Reservoir Temp. ____

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps ____

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI		3/4				532		982		SI
1.						132	65	986		3 hrs
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		144	0.9952	0.9608	1.013	1975
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____
F_c 9.402 $(1-e^{-s})$ 0.253 P_c 1100 P_c^2 1210

No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2$ $(1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	144	20.736	18.569	344.808	87.236	107.972	1022.036		1.184
2.									
3.									
4.									
5.									

Absolute Potential: 2,242 MCFPD; n .75/1.135

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405½ W. Broadway, Farmington, New Mexico
AGENT and TITLE C. R. Wagner, Well Test Engineer
WITNESSED ____
COMPANY ____

RECEIVED
AUG 15 1957
OIL CON. COM.
DIST. 3

REMARKS

Absolute potential calculated using a shut-in Mesaverde pressure of 1100 psia rather than the measured 544 psia.

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 "E" WELL NO. 7-28

DATE OF TEST 8-9-57

SHUT IN PRESSURE (PSIG): TUBING MV 532 CASING PC 982 S. I. PERIOD 9 DAYS

SIZE BLOW NIPPLE 3/4" B. M. Choke

FLOW THROUGH Mesaverde WORKING PRESSURES FROM Pict Cliffs

TIME HOURS	TIME MINUTES	CHOKE PRESSURE	Q (MCFD) 15.025 PSIA & 60°F	PC WELLHEAD WORKING PRESSURE (PSIG)	TEMP
	15	222		982	64
	30	200		984	64
	45	182		984	65
1	0	170		985	65
2	0	145		985	65
3	0	132		986	65

START AT: 11:20 AM END TEST AT 2:20 PM

REMARKS: Well died and then unloaded stream of H_2O for first 9 mins.
Very wet through out test.

OK from NM OCC to test without witness

TESTED BY: C. R. Wagner

WITNESS: _____