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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 Tapacito PC Extn Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 7-15-57
Company Northwest Production Corp. Lease "E" Well No. 7-28
Unit B Sec. 28 Twp. 26N Rge. 3W Purchaser Not connected
Casing 7-5/8 Wt. 26.4 I.D. _____ Set at 4125 Perf. 3898 To 3958
Tubing 1-1/4 Wt. 2.3 I.D. _____ Set at 3870 Perf. 3868 To _____
Gas Pay: From 3898 To 3958 L 3868 xG .650 -GL 2514 Bar.Press. 12
Producing Thru: Casing _____ Tubing 1 1/2" Type Well Dual - G-G
Date of Completion: 7-7-57 Packer 5479 Reservoir Temp. _____
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Proper) (Choke) (Meter) SI 7 days 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.	
SI								SI
1.		3/4	115		51	115	51	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.	12.3650		127	1.0088	.9608	1.012	1540
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 921 P_c 848.2

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.									
2.									
3.						451.6	396.6		2.142
4.									
5.									

Absolute Potential: 2943 MCFPD; n .85/1.911
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 .

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DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE "E" WELL NO. 7-28

DATE OF TEST 7-15-57

SHUT IN PRESSURE (PSIG): TUBING MV 668 PC 909 CASING PC 909 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE 3/4" T-C- Choke

FLOW THROUGH 1 1/4" Tubing - PC

WORKING PRESSURES FROM Casing - PC

TIME		CHOKE	Q (MCFD) ^{MV} Tbg	WELLHEAD WORKING	TEMP
HOURS	MINUTES	PRESSURE	15.025 PSIA & 60°F	PRESSURE (PSIG)	
	15	153	668	824	
	30	Raining			
	45	141	671	760	48
1	0	136	671	748	48
2	0	128	671	704	48
3	0	115	671	660	51

START AT: 12:10 PM END TEST AT 3:10 PM

REMARKS: Dry

TESTED BY: C. R. Wagner

WITNESS: _____