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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 South Blanco Formation Pictured Cliffs County San Juan
Initial X Annual _____ Special _____ Date of Test 12-9-57
Company Northwest Production Corp. Lease San Juan 27-8 Well No. 3-13
Unit H Sec. 13 Twp. 27N Rge. 8W Purchaser Not connected
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 3038 Perf. 2940 To 2980
Tubing 1 1/2 Wt. 2.3 I.D. _____ Set at 2968 Perf. _____ To _____
Gas Pay: From 2940 To 2980 L _____ xG Est .680 GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 12-2-57 Packer No Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through 1 1/2" (Choke) (Choke) 1 1/2" Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (9 1/2" 1 1/2") Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						822		823		81
1.										
2.										
3.		3/4				68		438	47	3 hrs
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.							
2.							
3.	12.3650		80	1.0127	.9393	1.013	953
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 _____ (1-e^{-s}) P_c 835 P_c² 697.2

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.	450					202.5	496.7		1.4093
4.									
5.									

Absolute Potential: 1,276 MCFPD; n .85/1.3385

COMPANY Northwest Production Corporation
ADDRESS 204 North Orchard, Farmington, N.M.
AGENT and TITLE L. E. Gilbert, Asst Dir.
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} = Supercompressibility 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 San Juan 27-8 WELL NO. 3-13

DATE OF TEST 12-9-57

SHUT IN PRESSURE (PSIG): TUBING 822 CASING 823 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE _____

FLOW THROUGH 3/4" CK on tubing WORKING PRESSURES FROM **Casing**

[illegible]

START AT: 12:10 PM

END TEST AT **3:10 PM**

REMARKS: Slightly wet with H₂O

TESTED BY: **L. E. Gilbert**

WITNESS: _____

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