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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 Rio Arriba
Initial X Annual _____ Special _____ Date of Test 11-20-57
Company Northwest Production Corp. Lease "C" Well No. 7-29
Unit G Sec. 29 Twp. 26N Rge. 4W Purchaser Not connected
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 3833 Perf. 3748 To 3786
Tubing 1 1/2 Wt. 2.3 I.D. _____ Set at 3760 Perf. _____ To _____
Gas Pay: From 3748 To 3786 L _____ xG Est. .650 -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 11-12-57 Packer No Reservoir Temp. _____
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Line) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1026		1026		SI
1.										
2.										
3.		3/4"				60	54	478		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		72	1.0058	.9608	1.011	870
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 1038 P_c² 1077.44

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.	490					240.10	837.34		1.287
4.									
5.									

Absolute Potential: 1,078 MCFPD; n .85/1.23914
COMPANY Northwest Production Corporation
ADDRESS 204 N. Orchard, Farmington, New Mexico
AGENT and TITLE L. E. Gilbert, Asst Drilg Engr
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 "C" WELL NO. 7-29

DATE OF TEST **Nov. 20, 1957**

SHUT IN PRESSURE (PSIG): TUBING 1026 CASING 1026 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE 2

FLOW THROUGH 3/4" T.C. Choke WORKING PRESSURES FROM Casing

[illegible]

START AT: 10:20 PM END TEST AT 1:20 PM

[illegible]

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

WITNESS: _____

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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