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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 1-9-58
Company Northwest Production Corp. Lease "C" Well No. 1A-7
Unit 0 Sec. 7 Twp. 26N Rge. 4W Purchaser Not connected
Casing 5 1/4 Wt. 15.50 I.D. _____ Set at 3694 Perf. 3568 To 3598
Tubing 1 1/4 Wt. 2.3 I.D. _____ Set at 3555 Perf. _____ To _____
Gas Pay: From 3568 To 3598 L _____ xG Est .650 -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 1-2-58 Packer No 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						1025		1025		31
1.										
2.										
3.		3/4				175	45	804		3 hr
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		187	1.0147	.9608	1.019	2297
4.							
5.							

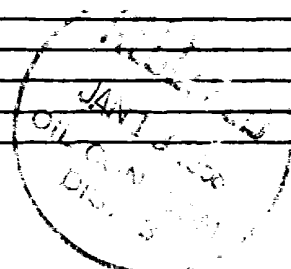
PRESSURE CALCULATIONS

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 1037 P_c 1075.4

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.	816					665.9	409.5		2.6261
4.									
5.									

Absolute Potential: 5,218 MCFPD; n .85/2.2719
COMPANY Northwest Production Corporation
ADDRESS 204 North Orchard, Farmington, New Mexico
AGENT and TITLE L. E. Gilbert, Asst. Dir. 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. **12-7**

DATE OF TEST **1-9-58**

SHUT IN PRESSURE (PSIG): TUBING 1025 CASING 1025 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE _____

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

[illegible]

START AT: 9:50 AM END TEST AT 12:50 PM

REMARKS: _____

TESTED BY: L. E. Gilbert

WITNESS: _____

EXHIBIT TO COMMISSION

STATE OF TEXAS

IN THE COUNTY OF DALLAS

FILE NO. 10

IN RE: THE ESTATE OF

JOHN W. WATKINS

DECEASED

BY: JAMES W. WATKINS

PLAINTIFF

VS.

THE STATE OF TEXAS

DEFENDANT

FILE NO. 10

IN RE: THE ESTATE OF

JOHN W. WATKINS

DECEASED

BY: JAMES W. WATKINS