

AM OCC-3
Peppin-1
Truby-1
Fowler-1
Rittmann-1
File-1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Wildcat Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 2-12-58
Company Northwest Production Corp. Lease "E" Well No. 11-15
Unit G Sec. 15 Twp. 26N Rge. 3W Purchaser Not connected
Casing 7-5/8 Wt. 26.4 I.D. _____ Set at 3992 Perf. 3726 To 3792
Tubing 2-3/8 Wt. 4.7 I.D. _____ Set at 3725 Perf. _____ To _____
Gas Pay: From 3726 To 3792 L 3726 xG .650 -GL 2422 Bar.Press. _____
Producing Thru: Casing X Tubing _____ Type Well Dual - G-G
Date of Completion: 12-17-57 Packer Yes Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Proven) (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						1239		627		
1.										
2.										
3.		1/8				1240		413	56	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.							
2.							
3.	.3393		425	1.0039	.9608	1.045	145
4.							
5.							

PRESSURE CALCULATIONS

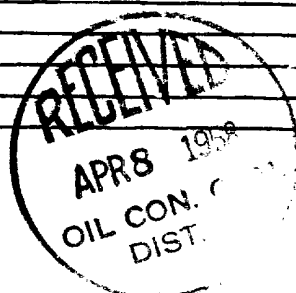
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c .905 (1-e^{-s}) 0.161
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 639 P_c 408.3

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.	425	181	.131	.017	3	184	224.3		1.8203
4.									
5.									

Absolute Potential: 242 MCFPD; n .85/1.6659

COMPANY Northwest Production Corp.
ADDRESS 204 N. Orchard, Farmington, N. M.
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} = 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 .

DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE 12-11 WELL NO. 11-15

DATE OF TEST 2-12-58

SHUT IN PRESSURE (PSIG): TUBING **MV 1239** CASING **PC 627** S. I. PERIOD **8** DAYS

SIZE BLOW NIPPLE _____

FLOW THROUGH 1/8" AM CK WORKING PRESSURES FROM Tubing

[illegible]

START AT: 8:45 am END TEST AT 11:45 am

REMARKS: Unloaded considerable water at start of test. Slight mist thru out.

TESTED BY: L. E. Gilbert

WITNESS: _____

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received	3	
DISTRIBUTION		
Director		
Asst. Dir.		
Chief of Div.	/	
Exec. Sec.		
State Rep.		
U. S. G. S.	/	
Transporter		
File	/	✓