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

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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 / 1-1/4 Wt. 4.7 / 2.3 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
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 12-17-57 Packer Yes Reservoir Temp. ____

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps ____

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (~~Orifice~~) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						1239		627		
1.										
2.										
3.		1/8				1240		413	56	3
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.	.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^2 408.3

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
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 Drlg Engr
WITNESSED ____
COMPANY ____

REMARKS

RECEIVED
APR 8 1958
OIL CON.
DIST.

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 [illegible] WELL NO. **11-15**

PICTURED CLIFFS

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" BM CK** WORKING PRESSURES FROM **Tubing**

TIME HOURS	TIME MINUTES	PRESSURE	Q (MCFD) 15.025 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)	TEMP
3	**0**	**413**		**1240**	**56**

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

[illegible]		
[illegible] Fe	/	
[illegible] Prod.		
[illegible] Prod. Unit		
U. S. G. S.	/	
Transporter		
File	/	✓