3-NMOCC
2-Occidental
1-NWP
1-Pacific
1-Reese
1-File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba

Initial X Annual ______ Special ______ Date of Test 6-10-58

Company Occidental Petroleum Co. Lease W Well No. 1-8

Unit M Sec. 8 Twp. 26N Rge. 5W Purchaser ______

Casing 7-5/8 (5½) Wt. 26.40 (15.5) I.D. ______ Set at 3400 (7689) Perf. 7529 (5494) (7670) To 7441 (4944) (7568)

Tubing 2-3/8 Wt. 4.7 I.D. ______ Set at 7410 Perf. Open packed To ______

Gas Pay: From 4944 To 5494 L 7-5/8 - 3901; 5½ -1644 xG 0.62 -GL 2042; 1020 Bar.Press. ______

Producing Thru: Casing X Tubing ______ Type Well GGDual
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 4-23-58 Packer ______ Reservoir Temp. ______

OBSERVED DATA

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

	Flow Data					Tubing Data		Casing Data		
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	Duration of Flow Hr.
SI						2183		1137		
1.										
2.		3/4" TC	41		78	2187				3 hrs
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.	12.3650		53	.9831	.9837	1.000	632
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ______ cf/bbl.
Gravity of Liquid Hydrocarbons ______ deg.
F_c 7-5/8 x 2-3/8 -0.5985; 5½ x 2-3/8 - 1.812 $(1-e^{-s})$ .138; .071

Specific Gravity Separator Gas ______
Specific Gravity Flowing Fluid ______
P_c 1149 P_c^2 1320

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	53	2.81	.378	.143	.0197	2.83			
2.			[illegible] 1.145	1.312	.093	2.92	1317		1.00228
3.									
4.									
5.									

Absolute Potential: 633 MCFPD; n .85 1.00192
COMPANY Occidental Petroleum Co.
ADDRESS ______
AGENT and TITLE T. A. Dugan, Consulting Engineer
WITNESSED ______
COMPANY ______

REMARKS

RECEIVED
JUN 26 1958
OIL CON. COM.
DIST. 3

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.