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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 Wildcat Formation Dakota County Rio Arriba

Initial X Annual ____ Special ____ Date of Test 5-23-58

Company Occidental Lease W Well No. 1-E

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

Casing 5½ 7-5/8 Wt. 15.5 26.40 I.D. ____ Set at 7 689 3400 Perf. 5494 7529 7670 To 4944 7441 7588

Tubing 2-3/8" Wt. 4.7 I.D. ____ Set at 7410 Perf Open ended To ____

Gas Pay: From 7441 To 7670 L 7410 xG 0.65 -GL ____ Bar.Press. ____

Producing Thru: Casing X Tubing Cross over sub X Type Well G.G. Dual
Single-Bradenhead-G. G. or G.O. Dual

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

OBSERVED DATA

Tested Through (Prover) (Choke) X (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						0		2428		
1.										
2.		3/4"	101		76					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		113	.9850	.9608	1.010	1336
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____
P_c ____ $(1-e^{-s})$ ____ P_c 2440 P_c^2 5953.6

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.									
2.	113	12.769	.800	.64	.085	12.854			
3.			2.4238	5.86	.387	13.241			
4.			12.561	157.779	16.567	29.808	5923.8		1.00503
5.									

Absolute Potential: 1342 MCFPD; n .85 1.00425

COMPANY Occidental Petroleum Corp.
ADDRESS Box 167, Cardenas, California
AGENT and TITLE T.A.Dugan, Consulting Engineer
WITNESSED Al Kendrick, Clarence Wagner, Charlie Werner
COMPANY ____

REMARKS

7-5/8 x 2-3/8 Fe - 0.5985 $1-e^s$ - .134
5-1/2 x 2-3/8 Fe - 1.812 " - .066
2-3/8 Fe - Fe - 9.402 " - .105

RECEIVED
JUN 4 1958

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.

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