NEW MEXICO OIL CONSERVATION COMMISSION

3-NMOCC
2-Kern
1-File

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 8-31-59

Company Kern County Land Co. Lease McKenzie Federal Well No. 34-25

Unit O Sec. 25 Twp. 25N Rge. 6W Purchaser ____

Casing 7" Wt. 23# I.D. ____ Set at 7000 Perf. 6934 To 6868

Tubing 2 3/8" Wt. 4.7 I.D. ____ Set at 6863 Perf. open ended To ____

Gas Pay: From 6934 To 6868 L 6863 xG .700 -GL 4004 Bar.Press. ____

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

Date of Completion: 8-19-59 Packer Baker Model D Reservoir Temp. ____

OBSERVED DATA

Tested Through (Prover) (Choke) (Orifice) 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						2437				
1.										
2.										
3.		3/4"	162		72°					3 hrs.
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		174	.9887	.9258	1.020	2008
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl.
Gravity of Liquid Hydrocarbons ____ deg.
F_c 9.042 $(1-e^{-s})$ 0.295

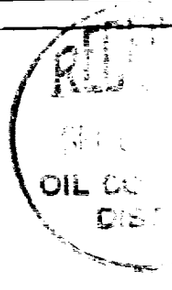
Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c 2449 P_c^2 5998

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.	174	30,276	18.88	356	105	135	5863		1.022
4.									
5.									

Absolute Potential: 2041 MCFPD; n .75 1.0165

COMPANY Kern County Land Co.
ADDRESS 1600 California Street San Francisco, California
AGENT and TITLE [signature] Consulting Engineer
WITNESSED Tom Smith
COMPANY N.M.O.C.C.

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.

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