Form C-122

Revised 12-1-55

Pool Blanco Mesa Verde Formation Mesa Verde County Rio Arriba

Initial Yes Annual Special Date of Test 9-30-63

Company Caulkins Oil Company Lease Breech "E" Well No. MD 64

Unit A Sec. 1 Twp. 26N Rge. 6W Purchaser Southern Union Gas Company

Casing 5 1/2" Wt. 15.5 / 17.0 I.D. 4.95 Set At 7711 Perf. 4924 To 5482

Tubing 1 1/4" Wt. 2.4 I.D. 1.3 Set At 5374 Perf. 5374 To

Gas Pay: From 4924 To 5482 L 5374 Gg .600 GL 3289 Bar.Press. 12

Producing Thru: Casing No Tubing Yes Type Well Gas - Gas Dual
S.G. G. or G.O. Dual

Date of Completion: 9-18-63 Packer 7340 Ref. MD. 1500

OBSERVED DATA

Tested Through XXXXXXX (Choke) XXXXXX Type Taps

No.	Flow Data (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h	Temp. °F	Tubing Data Press. psig	Temp. °F	Duration of Flow Hr.
SI					990	989		7 day SI
1.		3/4"			93	649		3 hours
2.								
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	p_f		Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	14.1605		105	1.000	1.000	1.010	1502
2.							
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 _____ (P_c^2) 1002 P_c^2 1,004,004

No.	P_w P_t (psia)	P_t^2	$P_c^2 - P_t^2$	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.			436,921	567,083		.659
2.						
3.						
4.						
5.						

Absolute Potential: 2304 MCFPD (1.77)n 1.5345

COMPANY Caulkins Oil Company

ADDRESS P. O. Box 788, Farmington, New Mexico

AGENT and TITLE Frank Burr Production Superintendent

WITNESSED _____

COMPANY _____

RECEIVED
APR 6 1964
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.