

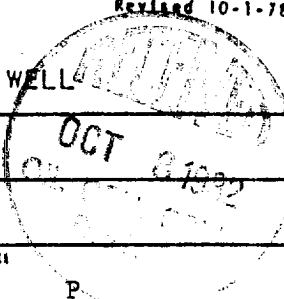
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-172
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-5-82			
Company Caulkins Oil Company				Connection			
Pool Basin Dakota				Formation Dakota		Unit P	
Completion Date 9-28-82		Total Depth 7700'		Plug Back TD 7700'		Elevation 6661	
Ceq. Size 5 1/2"		wt. 17# 15.5#		Set At 4.950 4.892		Perforations: From 7650' To 7449'	
Teg. Size 2 1/6"		wt. 3.250		Set At 1750 7587		Perforations: From 7587 To	
Type Well - Single - Drilled - G.C. or G.O. Multiple Gas and Gas Multiple				Packer Set At 5806		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g		State New Mexico	
				% CO ₂		% N ₂	
				% H ₂ S		Prover	
						Meter Run	
						Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1616		PKR		7 Days
1.							112		PKR		3 Hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mc/d
1	14.1605		124	1.000	1.000	1.000	1.756
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1628 P _c 2,650,384				
NO.	P ₁ ²	P _w	P ₂ ²	P ₂ ² - P _w ²
1	15,376	426	181,487	2,468,897
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_2^2 - P_w^2} = 1.074$ (2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.055$

AOF = Q $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1,852$

Absolute Open Flow _____ 1852 _____ Mc/d @ 15.025	Angle of Slope @ _____ 75 _____	Slope, n _____
Remarks: _____		
Approved By Division	Conducted By:	Calculated By:
		Checked By: