

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 12-4-84	
Company Caulkins Oil Company				Connection		
Pool Basin Dakota				Formation Dakota		
Completion Date 7-25-84		Total Depth 7575'		Plug Back TD 7575'		Elevation 6605
Csg. Size 5 1/2"		Wt. 17# 15.5		Perforations: From 7296' To 7539'		Well No. 244-E
Tbg. Size 1 1/2"		Wt. 2.9#		Perforations: From 7366' To		Unit Sec. Twp. Rye. E 14 26N 6W
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Gas Dual					Packer Set At 5530'	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a
L		H		G _g		% CO ₂ % N ₂ % H ₂ S Prover
Meter Run		Taps		County Rio Arriba		
State New Mexico						

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							797		PKR		Shut in
1.							61		PKR		3 Hours
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, Mcfd
1	14.1605		73	1.000	1.000	1.000	1,034
2.							
3.							
4.							
5.							

NO.	P _t	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 809 P _c ² 654,481			
NO.	P _t ²	P _w	P _w ²
1	5329	303	91,661
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.163$

(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.120$

AOG = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1,158$

1,158 Mcfd @ 15.025

Angle of Slope @ 75 Slope, n _____

Re-Tested after being shut in 124 days.

Approved By Division	Conducted By	Calculated By	Checked By
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