

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 06/06/80	
Company OKLAHOMA OIL CO.				Connection		
Pool BASIN DAKOTA				Formation DAKOTA		Unit
Completion Date 05/22/80		Total Depth 6612		Plug Back TD 6550		Elevation 6132 GL
Farm or Lease Name FEDERAL						
Well No. 1E						
Unit C		Sec. 19		Twp. 27N		Rge. 11W
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At N/A		County SAN JUAN
Producing Thru TUBING		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a as S
State NEW MEXICO						
L		H		Gg		Prover
				.700		
FLOW DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F
SI						
1.	2	X	6	X	.75	
2.						
3.						
4.						
5.						
TUBING DATA						
				Press. p.s.i.g.	Temp. °F	
				1289		
				217		
CASING DATA						
				Press. p.s.i.g.	Temp. °F	
				1287	50°	
				440		
Duration of Flow 3 hrs.						
RATE OF FLOW CALCULATIONS						
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}
1	11		229	1.010	1.195	1.028689
2.						
3.						
4.						
5.						
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1	.34	510	1.29	.945	A.P.I. Gravity of Liquid Hydrocarbon _____ Deg.	
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid _____ XXXXXX	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	
P _c 1299 P _c ² 1687401						
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.13775$	
1		452	204304	1483097	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1016$	
2						
3						
4						
5						
AOG = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 3446$						
Absolute Open Flow 3446 Mcfd @ 15.025 Angle of Slope @ _____ Slope, n .75						
Remarks:						
Approved by Division		Conducted By:		Calculated By:		Checked By: