

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date			
Company		Caulkins Oil Company		Connection				11-16-81			
Pool		Basin		Formation		Dakota		Unit			
Completion Date		11-09-81		Total Depth		7600		Plug Back TD			
						7600		Elevation			
								6638'			
Csg. Size		4 1/2"		Perforations:		From 7308 To 7542		Well No.			
Thg. Size		2 3/8"		Perforations:		From 7508 To		682E			
								Unit Sec. Twp. Rge.			
								E 10 26N 6W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple		Gas - Gas Multiple		Packer Set At				County			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State			
Tubing								New Mexico			
L		H		G _g		% 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											
1.											
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.											
2.											
3.											
4.											
5.											
NO.											
R _t											
Temp. °R											
T _r											
Z											
Gas Liquid Hydrocarbon Ratio											
A.P.I. Gravity of Liquid Hydrocarbon											
Specific Gravity Separator Gas											
Specific Gravity Flowing Fluid											
Critical Pressure											
Critical Temperature											
Mcf/bbl.											
Deg.											
XXXXXXX											
XXXXXX											
P.S.I.A.											
P.S.I.A.											
R											
R											
P _c 1339 P _c ² 1,792,921											
NO.											
P _i ²											
P _w											
P _w ²											
P _c ² - P _w ²											
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.256$											
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1868$											
1.											
2.											
3.											
4.											
5.											
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,831$											
Absolute Open Flow 1,831 Mcfd @ 13.025											
Angle of Slope 75											
Slope, n											
Remarks:											
Approved By Division											
Conducted By:											
Calculated By:											
Checked By:											