

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-1-82	
Company Caulkins Oil Company		Connection	
Pool Basin Dakota		Formation Dakota	
Completion Date 9-24-82		Total Depth 7520'	Plug Back TD 7520'
		Elevation 6669 Gr.	Form or Lease Name State "B" Comm
Csg. Size 5 1/2"	17#	4.950	Set At 7520'
15.5#	4.892	Perforations: From 7424' To 7266'	
Thq. Size 1 1/4"	2.3#	1.380	Set At 7400
		Perforations: From 7400 To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple		Packer Set At 5405	County Rio Arriba
Producing Thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 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							1834		PKR		7 Days
1.							104		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, Mcfd
1	14.1605		116	1.000	1.000	1.000	1,642
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 1846	P _c ² 3,407,716	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.048$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0357$
NO. 1	P _r ² 13,456	P _w 395	P _w ² 155,842
2			
3			
4			
5			

Absolute Open Flow 1,701 Mcfd @ 15.025		Angle of Slope @ 75	Slope, n _____
Remarks: _____			
Approved By Division	Conducted By:	Calculated By:	Checked By: