

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-10-82						
Company Caulkins Oil Company					Connection						
Pool Basin Dakota					Formation Dakota						
Completion Date 8-3-82			Total Depth 7500		Plug Back TD 7500		Elevation 6529 GR		Farm or Lease Name Breach D		
Csg. Size 5 1/2"		Wt. 17#		d 4.950		Set At 7500		Perforations: From 7260 To 7470		Well No. 685 E	
Tbg. Size 2 1/16"		Wt. 3.25		d 1.750		Set At 7259		Perforations: From 7259 To		Unit Sec. Twp. Rge. P 11 26N 6W	
Type Well - Single - Drivenhead - G.G. or G.O. Multiple Gas-Gas Multiple					Packer Set At 5504					County Rio Arriba	
Producing Thru Tubing			Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State 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							1208		PKR		7 days SI
1.							55		---		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		67	1.000	1.000	1.000	949
2.							
3.							
4.							
5.							

NO.	R _f	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

$P_c = 1220$ $P_c^2 = 1,488,400$				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1	4,489	226	50,897	1,437,503
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.035$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.026$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 974$

Absolute Open Flow _____ 947 _____ Mcfd @ 15.025	Angle of Slope @ _____ 75 _____	Slope, n _____
--	---------------------------------	----------------

Remarks: _____

Approved by Division	Conducted By:	Calculated By:	Checked By:
----------------------	---------------	----------------	-------------