

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8/30/82	
Company Caulkins Oil Company		Connection	
Pool Blanco Mesa Verde Basin-Dakota		Formation Mesa Verde	
Completion Date 8/23/82		Total Depth 7700'	Plug Back TD 7558'
Elevation 6600 KB		Farm or Lease Name Breech D	
Csq. Size 5 1/2"	Wt. 17#	d 4.000	Set At 7700
Perforations: From 4854	To 5462	Well No. 140	
Thq. Size 1 1/4"	Wt. 2.3#	d 1.350	Set At 5500
Perforations: From 5500	To	Unit Sec. Twp. Rge. A 11 26 N 6 W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas Gas Dual		Packer Set At 5535'	
Producing Thru Tubing		County Rio Arriba	
Reservoir Temp. °F		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _g	
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							613		738		7 Days
1.							43		291		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow O. Mcfd
1	14.1605		55	1.000	1.000	1.000	779
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 750	P _c ² 562,500				(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.195$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1429$
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²		
1		303	91,809	470,691		
2						
3						
4						
5						

$$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 890$$

Absolute Open Flow	890	Mcfd @ 15.025	Angle of Slope	75	Slope, n
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Remarks:

Approved By Division _____ Conducted By: _____ Calculated By: _____ Checked By: _____