

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-7-97	
Company Caulkins Oil Company		Connection	
Pool Basin Dakota-Blanco Mesa Verde		Formation Dakota - Mesa Verde Commingled	
Completion Date 11-1-97		Total Depth 7662'	Plug Back TD 7646'
		Elevation 6610	Farm or Lease Name Breech "F"
Ceq. Size 5 1/2"	Wt. 15.5#	d 4.800	Set At 7646'
Perforations From 7363' To 7556'			5656'
Tub. Size 2 3/8"	Wt.	d	Set At 7560'
Perforations From 7363' To 7556'			5656'
Type Well - Single - Blindhead - G.G. or G.O. Multiple Single Commingled Dakota-Mesa Verde		Packer Set At None	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							1300		1325		7 day SI
1.	3/4"						139		578		3 hours
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 Q, Mcfd
1	14.1605		151	1.000	1.000	1.000	2,138
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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 1337	P _c ² 1,787,569		
NO.	P _i ²	P _w	P _w ²
1	22,801	590	348,100
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_w^2 - P_w^2} = 1.2418$$

$$(2) \left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 1.1764$$

$$AOF = Q \left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 2515$$

Absolute Open Flow 2515	Mcfd @ 15.025	Angle of Slope @ _____	Slope, n, .75
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Remarks: As per recommended production split - 21% Mesa Verde = 448 MCF and 79% Dakota = 1690 MCF

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