

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED
APR 15 1993

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-5-93	
Company Caulkins Oil Company				Connection	
Pool Basin Fruitland Coal				Formation Fruitland Coal	
Completion Date 3-28-93		Total Depth 2780'		Plug Back TD 2780'	
Elevation 6446		Form or Lease Name Breach			
Csq. Size 5 1/2"	Wt. 15.50	d 4.950	Set At 2780'	Perforations: From 2670' To 2688'	
Tbg. Size 2 3/8"	Wt. 4.70	d 1.995	Set At 2672'	Perforations: From 2672' To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F P		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							370		382		7 days
1.							81		238		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		93	1.000	1.000	1.000	1,317
2.							
3.							
4.							
5.							

NO.	P _t	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 394	P _c ² 155,236				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1	8649	250	62,500	92,736	
2					
3					
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.674 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.549$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,041$$

Absolute Open Flow 2,040	Mcf @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks:

Approved by Division	Conducted By	Calculated By	Checked By
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