

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-5-86			
Company CURTIS J. LITTLE					Correction			
Pool Basin					Formation Dakota		Unit	
Completion Date 1-28-86			Total Depth 6112		Plug back TD 6069		Elevation 5885 GL	
Farm or Lease Name Fairfield								
Csq. Size 4-1/2	Wt. 11.6	d 6112	Set At 6112	Perforations: From 5862 To 6035		Well No. 1-E		
Tbg. Size 2-3/8	Wt. 4.7	d 1.995	Set At 5999	Perforations: From open To ended		Unit I	Sec. 14	Twp. 27N
		Rge. 13W						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia		State New Mexico
L	H	Gg .650	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps
FLOW DATA					TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F
SI	8 days						1505	1515
1.	2 inch	.750					147	60°
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	12.3650		159	1.0	.9608	1.0012	1891	
2.								
3.								
4.								
5.								
NO.	P _t	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 _____ X X X X X X X X			
3.					Specific Gravity Flowing Fluid _____ X X X X X			
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
5.					Critical Temperature _____ R _____ R			
P _c 1527 P _c ² 2331729								
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2067$			
1		632	399424	1932305	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1513$			
2								
3					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2177$			
4								
5								
Absolute Open Flow 2177 Mcfd @ 15.025					Angle of Slope θ		Slope, n .75	
Remarks: Spray frac water & oil.								
Approved By Division _____ Conducted By: Curtis J. Little								
Calculated By: Curtis J. Little								
Checked By: Joe Elledge								

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