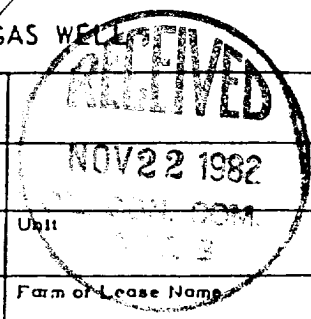


MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-15-82	
Company CURTIS J. LITTLE				Connection El Paso	
Pool Ballard				Formation Pictured Cliff	
Completion Date 11-8-82		Total Depth 2703		Plug back TD 2663	
Elevation 6649 G.L.		Farm or Lease Name Warren			
Csq. Size 2 7/8	Wt. 6.5	d 2.441	Set At 2683	Perforations: From 2542 To 2621	
Trq. Size	Wt. Slim	d Hole	Set At	Perforations: From To	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single				Packer Set At None	
Producing Thru Casing		Reservoir Temp. °F #		Baro. Press. - P _a 12 psia	
Mean Annual Temp. °F		State N.M.			
L	H	Cg .650	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	7 days								734		
1.	2 inch		.750						33	60°	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	12.3650		45	1.000	.9608	1.002	536
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 _____ 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 746	P _c ² 556516				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.00547$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.00464$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		55	3025	553491		
2						
3		Calculated				
4						
5						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 538$$

Absolute Open Flow 538 Mcfd @ 15.025 Angle of Slope ϕ Slope, n .85

Remarks: Gas Completely dry.

Approved By Division Conducted By *[Signature]* Calculated By *[Signature]* Checked By: CURTIS J. LITTLE