

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-13-85			
Company Southern Union Exploration						Connection			
Pool Basin						Formation Dakota			
Completion Date 5-29-85		Total Depth 7006		Plug Back TD 6980		Elevation 6608		Farm or Lease Name Hodges	
Csq. Size 4239	Wt. 10.5	d 4.052	Set At 7006	Perforations: From 6800 To 6950		Well No. 11-E			
Tbg. Size 2.0625	Wt. 3.25	d 1.751	Set At 6932	Perforations: From To		Unit C	Sec. 27	Twp. 26	Rge. 8
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single Gas						Packer Set At		County San Juan	
Producing Thru Tbg		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L 6932	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover 3/4" choke	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.	
SI		.750					1245		1375	
1.						67	82		600	
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		94	.9933	.9339	1.009	1087
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	P _w	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas .688 EST
3.					Specific Gravity Flowing Fluid X X X X X
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 1387	P _c ² 1923769	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2418$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.20211$
NO	P _t ²	P _w	P _w ²
1		612	374544
2			
3			
4			
5			

Absolute Open Flow 1.307 Mcfd @ 15.025		Angle of Slope θ	Slope, n .85
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Remarks: Well unloaded in 15 min. Blow solid stream of H₂O for 1 min then medium to heavy mist. Well blowing light mist of water at end of test.

Approved by Division	Conducted by: <i>Manuel A. L...</i>	Calculated by: <i>Manuel A. L...</i>	Checked By:
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