

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-22-85				
Company Southern Union Exploration Co.				Connection GCNM					
Pool Basin				Formation Dakota				Unit	
Completion Date 7-27-85		Total Depth 7965		Plug Back TD 7928		Elevation		Farm or Lease Name Jicarilla A	
Coq. Size 5.500	Wt. 15.50	d 4.950	Set At 7965	Perforations: From 7816 To 7872		Well No. 8			
Tng. Size 1.900	Wt. 2.90	d 1.610	Set At 7714	Perforations: From To		Unit Sec. Twp. Rge. E 23 26 4			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Gas Multiple						Packer Set At 7650		County Rio Arriba	
Producing Thru Tbg		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gq	% 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							660				7 days
1.		.750				62	32		150		3 hrs
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		44	.9981	.9200	1.004	502
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 .709 Est. ☒ X X X X X X
3.					Specific Gravity Flowing Fluid X X X X X 3
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 672	P _c ² 451584		
NO.	P _i ²	P _w ²	P _c ² - P _w ²
1		156	24336
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0569$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 523$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0424$

Absolute Open Flow 523 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____
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Remarks: 1 hr into test well making medium to heavy mist of condensate. At end of test well was blowing dry gas. This test performed after Gallup formation was placed behind sliding sleeve.

Approved By Division	Conducted By: A /	Calculated By: A /	Checked By:
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