

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8/25/92	
Company Southern Union Exploration Co.				Connection Gas Company of New Mexico			
Pool Basin				Formation Dakota			
Completion Date 12/16/67		Total Depth 8175 ft.		Plug Back TD 7220 ft.		Elevation 6913 ft.	
Ceq. Size 4.500		Wt. 10.50		Set At 4,052		Perforations: From 6982 To 7200	
Thq. Size 1.900		Wt. 2.90		Set At 1,610		Perforations: From 7104 To 7112	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12	
L 7094		H		G _g .700		% 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	2"		3/4"				1366		1370		15 days
1.							52	64°	573		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		66	.9962	.9258	1.022	769
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 1378 P _c ² 1898884				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	4096	585	342225	1556659
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2198$

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

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1606$

Absolute Open Flow 892 Mcfd @ 15.025	Angle of Slope @ _____	Slope, n .75
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Remarks: Witnessed by Gary Hudgins with Southern Union Exploration Company

Approved By Division	Conducted By: Ron Coffee	Calculated By: Ron Coffee	Checked By: Ron Coffee
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