

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/30/69	
Company Southern Union Production Co.		Connection Southern Union Gas Company	
Pool Basin		Formation Dakota	
Completion Date 12/19/69	Total Depth 6790	Plug Back TD 6768	Elevation 5786
Farm or Lease Name Mims State Com.		Well No. 2	
Cas. Size 7.825 4.500	Wt. 26.40 10.50	d 6.965 4.052	Set At 2798 2357-6787
Thg. Size 2.375	Wt. 4.70	d 1.995	Set At 6647
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	
Producing Thru Tubing		Baro. Press. - P_a 12	
County San Juan		State New Mexico	
L 6629	H .700	Gg	% 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"				1820		1816		8 days
1.							224	66°	510		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 F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1	12.3650		236	0.9943	0.9258	1.026	2,756
2							
3							
4							
5							

NO.	P_t	Temp. °R	T_t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P_c 1832	P_c^2 3,356,224	
NO	P_w^2	$P_c^2 - P_w^2$
1	522	3,083,740
2		
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0884$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0655$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,937$$

$$2,937$$

Absolute Open Flow	2,937	Mcf/d @ 15.025	Angle of Slope θ	0.75
Slope, n				
Remarks:				

Approved By Commission:	Conducted By: Kenneth E. Roddy	Calculated By: Kenneth E. Roddy	Checked By: Kenneth E. Roddy
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