

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

Form G-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8/18/69			
Company SOUTHERN UNION PRODUCTION CO.				Connection SOUTHERN UNION GAS COMPANY			
Pool BASIN				Formation DAKOTA		Unit	
Completion Date 7/30/69		Total Depth 7695		Plug Back TD 7653		Elevation 6642	
Form or Lease Name JICARILLA "H"				Well No. 7			
Comp. Size 7.625 5.000	Wt. 26.40 15.50	d 6.969 4.950	Set At 3355 3206-7689	Perforations: From 7400 To 7600			
Thg. Size 1.900	Wt. 2.90	d 1.610	Set At 7493	Perforations: From 7485 To 7493		Unit Sec. Twp. Rge. K 19 26N 4W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL - GAS - GAS				Packer Set At 7296		County RIO ARriba	
Producing Thru TUBING		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12	
State NEW MEXICO							
L 7473	H	Gg .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							2298				16 DAYS
1.	2"		3/4"				266	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		278	1.0000	0.9258	1.032	3,284
2.							
3.							
4.							
5.							

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

P _c 2310	P _c ² 5,336,100	
NO.	P _w	P _w ²
1	77,284	1,000,618
2.		
3.		
4.		
5.		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2308$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1685$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3837$$

Actual Test Flow 3,837	Mcfd @ 15.025	Angle of Slope θ _____	Slope, n 0.75
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Remarks: _____

Approved By Commission:	Conducted By: KENNETH E. RODDY	Calculated By: KENNETH E. RODDY	Checked By: KENNETH E. RODDY
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