

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10/4/71		OCT 6 1971 OIL CON. COM. DIST. 3	
Company SOUTHERN UNION PRODUCTION CO.		Connection SOUTHERN UNION GAS COMPANY			
Pool BASIN		Formation DAKOTA		Unit	
Completion Date 9/24/71		Total Depth 7700		Plug Back TD 7642	
Elevation 6811		Farm or Lease Name JICARILLA "K"		Well No. 15	
Csg. Size 5.500	Wt. 15.50	d 4.950	Set At 7690	Perforations: From 7394 To 7586	
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set At 7454	Perforations: From 7446 To 7454	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL - GAS - GAS				Packer Set At 7250	
Producing Thru TUBING		Reservoir Temp. °F 0		Mean Annual Temp. °F 12	
Baro. Press. - P _a 7436		County RIO ARriba		State NEW Mexico	
L 7436	H	Gg 0.700	% 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.	
SI	2"		3/4"				2183			
1.							310	62°		
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		322	0.9981	0.9258	1.039	3823
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 2194	P _c ² 4,813,636	
NO.	P _t ²	P _w
1		1351023
2		3,462,613
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.3902}{1.3902 - 1.3902} = 1.3902$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.894$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2802$$

Absolute Open Flow 4,894	Mcfd @ 15.025	Angle of Slope θ _____	Slope, n 0.75
Remarks: _____			

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