

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



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1/9/68	
Company Southern Union Production Co.				Connection El Paso Natural Gas Company		
Pool Basin				Formation Dakota		Unit
Completion Date 12/20/67		Total Depth 6724		Plug Back TD 6705		Elevation 6384
Farm or Lease Name Richard						Well No. 15
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 6723	Perforations: From 6686 To 6680		Unit J Sec. 23 Twp. 26N Rge. 8W
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set At 6625	Perforations: From 6617 To 6625		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12
County San Juan						State New Mexico
L 6606	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	2"		3.4"				2170		2169		17 days
1.							175	61	907		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 _{sp}	Rate of Flow Q, Mcfd
1	12.3650		187	.9990	.9258	1.021	2,183
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 _____ 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 _____ F _____ R	

P _c 2182	P _c ² 4,761,124		
NO.	P _c ²	P _w	P _w ²
1	4,761,124	919	844,561
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4,761,124}{4,761,124 - 844,561} = 1.2156$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1576$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,527$$

Absolute Open Flow 2,527 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .75
Remarks: Witnessed by Clarence Wagner			
ORIGINAL SIGNED BY LARRY WARRINGTON			
Approved By Commission:	Conducted By: L. Warrington	Calculated By: L. Warrington	Checked By: L. Warrington