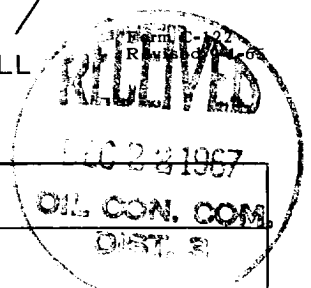


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12/20/67			
Company Southern Union Production Co.				Connection El Paso Natural Gas Company				
Pool Basin				Formation Dakota				Unit
Completion Date 11/23/67		Total Depth 7310		Plug Back TD 7291		Elevation 6974		Farm or Lease Name Nickson
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 7309	Perforations: From 7055 To 7278			Well No. 16	
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set At 7172	Perforations: From 7164 To 7172			Unit Sec. Twp. Rge. 0 35 26N 8W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico
L 7154	H	Gg .700	% CO₂	% N₂	% H₂S	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	
1.	2"		3/4"				2118		2087		8 days
2.							220	58°	972		3 hrs.
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		232	1.0019	.9258	1.028	2.735
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 _____ R _____ R

P _c 2130	P _c ² 4,536,900		
NO.	P _t ²	P _w	P _w ²
1.	53,824	984	968,256
2.			
3.			
4.			
5.			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4,536,900}{4,536,900 - 968,256} = 1.2713$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1972$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.274$$

Absolute Open Flow 3,274 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: **Witnessed by Jesse Goodwin**
 ORIGINAL SIGNED BY
 WAYNE WARRINGTON
 Approved By Commission: **W. Warrington** Conducted By: **W. Warrington** Calculated By: **W. Warrington** Checked By: **W. Warrington**