

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 1/3/68	
Company SOUTHERN UNION PRODUCTION CO.				Connection EL PASO NATURAL GAS COMPANY		
Pool BASIN				Formation DAKOTA		Unit
Completion Date 12/12/67		Total Depth 7341 FT.		Plug Back TD 7322 FT.		Elevation 6910 FT.
Farm or Lease Name NEWSOM "A"						
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 7340 FT.	Perforations: From 7076 To 7264		Well No. 7
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set At 7232	Perforations: From 7224 To 7232		Unit Sec. Twp. Rge. 0 10 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		State NEW MEXICO
L 7214	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"				2087		2067		19 DAYS
1.							357	59°	1338		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		369	1.0010	.9258	1.046	4.423
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °F							
	1.								
	2.								
	3.								
	4.								
	5.								

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DIST. 3

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas _____			X X X X X X X X
Specific Gravity Flowing Fluid _____			X X X X X
Critical Pressure _____ P.S.I.A.			_____ P.S.I.A.
Critical Temperature _____ R			_____ R

P _c 2099	P _c ² 4,405,801		
NO	P _t ²	P _w	P _w ²
1	136,161	1350	1822500
2			2583301
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.7055}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.4924}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{6,601}$

Absolute Open Flow 6,601 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: **WITNESSED BY DON NORTON OF EL PASO NATURAL GAS COMPANY**

Approved By Commission:	Conducted By: KENNETH E. RODDY	Calculated By: WAYNE WARRINGTON	Checked By: KENNETH E. RODDY
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Original signed by
Kenneth E. Roddy