

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 7-26-79	
Company Southland Royalty Company			Connection Southern Union Gathering		
Pool Blanco			Formation Pictured Cliffs		Unit
Completion Date 7-19-79		Total Depth 5340'		Elevation 6220' GR	
Farm or Lease Name Davis		Well No. 5-A			
Perforations: From 2624' To 2717'	Well No. 5-A				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple		Packer Set At 2886'		County San Juan	
Producing Thru Tbg		Reservoir Temp. °F #		State New Mexico	
L		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.	
51							790		790	
1.	2" X 3/4"						273		726	1 hr.
2.							270		715	2 hrs.
3.							260		690	3 hrs.
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	12.365		272.2	1.0000	.9258	1.000	3116
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	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		702.2	493085	150440
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.2776$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10,718$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.4397$

Absolute Open Flow	10,718	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.85
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Remarks:			
Approved By Commission:	Conducted By: Charles Saiz	Calculated By: James Smith	Checked By: