

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 1-30-80	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Basin				Formation Dakota		Unit
Completion Date 1-23-80		Total Depth 7594'		Plug Back TD 7590'		Elevation 6324'
Form or Lease Name Davis						Well No. #8E
Csg. Size 7.000 4.500		Wt. 23# 10.5#		Set At 5061' 4948'-7592'		
Perforations: From 7467' To 7573'		Perforations: From To		Unit Sec. Twp. Rge. H 11-T31N-R12W		County San Juan
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 7535'		State New Mexico		
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a
L	H	Gg	% 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
1.	2" X 3/4"						1190		1200		3 Hours
2.							107		509		
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	12.365		119.2	1.000	.9258	1.000	1365
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 _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____
5.					Critical Temperature _____

$P_c = 1212.2$ $P_c^2 = 1469428.8$				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2268$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1591$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		521.2	271649.4	1197779.4	
2					
3					
4					
5					

Absolute Open Flow <u>1591</u> Mcfd @ 15.025		Angle of Slope θ _____	Slope, n <u>.75</u>
Remarks: _____			
Approved By Commission:		Conducted By: Mick Ferrari	Calculated By: James Smith
		Checked By:	

