

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-17-81			
Company Southland Royalty Company				Connection El Paso Natural Gas					
Pool Basin				Formation Dakota				Unit	
Completion Date 1-16-81		Total Depth 6581'		Plug Back TD 6538'		Elevation 5767' GR		Farm or Lease Name Federal PRI	
Coq. Size 4.500	Wt. 10.5#	d 4.052	Set At 6581'	Perforations: From To		Well No. 1-E			
Thq. Size 2.375	Wt. 4.7#	d 1.995	Set At 6497'	Perforations: From 6352' To 6516'		Unit Sec. Twp. Rye- H 11 29N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - G				Packer Set At		County San Juan			
Producing Thru Tubing		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		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.	Temp. °F	
SI							1305		1287		
1.	2" x 1/2"						72		288		1 hr.
2.							6		304		2 hrs.
3.							2		401		3 hrs.
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 _{pv}	Rate of Flow Q, Mcfd
1	5.4315		14.2	1.0000	.9258	1.0000	71
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mc/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$
1		413.2	170734.2	1564281.6	1.1091	1.0808
2						
3						
4						
5						

Absolute Open Flow				Angle of Slope		Slope, n	
77				15.025		.75	

Remarks: Unloaded some oil and water throughout test			
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Approved By Division	Conducted By: Kelly Maxwell	Calculated By: James Smith	Checked By: L.O. Van Ryan
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