

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-18-84	
Company Southland Royalty Company				Connection Southern Union Gathering	
Pool Blanco				Formation Pictured Cliffs	
Completion Date 11-07-84		Total Depth 2920'		Plug Back TD 2895'	
				Elevation 6219' GL	
Csg. Size 2.875		Wt. 6.4#		Set At 2905'	
Perforations: From 2640' To 2754'				Well No. 9	
Thq. Size ----		Wt. ----		Set At -----	
Perforations: From ----- To -----				Unit J	
				Sec. 11	
				Twp. 32N	
				Rge. 12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At ---	
Producing Thru Casing				Baro. Press. - P _g 12.2	
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.	
SI									925	
1.	2" X 3/4"								277	1 hr
2.									223	2 hrs
3.									195	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		207.2	1.0000	.9258	1.0000	2372
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	NOV 30 1984	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons <td></td> <td>Deq.</td>		Deq.
2.					Specific Gravity Separator Gas	OIL CON. DIV	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5.					Critical Temperature	R	R

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	937.2	207.2	878343.8	42931.8	835412.0	1.0514	1.0435
2							
3							
4							
5							

Absolute Open Flow				Angle of Slope	
2475 Mcfd @ 15.025				Slope, n .85	

Remarks: Mist of water throughout test			
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Approved By Division	Conducted By: Richard Ramos	Calculated By: James M. Smith	Checked By: C. Terry Hobbs
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