

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND DE POINT BACK PRESSURE TEST F GAS WELL

Form C-122
 Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special Test Date 8-24-78					AUG 30 1978				
Company SOUTHLAND ROYALTY CO.				Connection UNDESIGNATED					
Pool Wildcat (monero) WILDCAT				Formation MORFOW				Unit O. G. G. ARTESIA, OFFICE	
Completion Date 6-28-78		Total Depth 11553.		Plug Back TD 11330.		Elevation 3322.		Farm or Lease Name PARKWAY-ST COMM	
Csg. Size 0.500	Wt. 11.3	d 3.920	Set At 11557.	Perforations: From 11201. To 11280.				Well No. 1	
Trq. Size 2.775	Wt. 0.7	d 1.995	Set At 10952.	Perforations: From 0. To 0.				Unit Sec. Twp. Rge. K 15 12 22	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At 10952.		County EBB		
Producing Thru TRG		Reservoir Temp. °F 132.0		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.0		State NEW MEXICO	
L 11201.	H 11241.	Gg 0.483	% CO ₂ 1.00	% N ₂ 0.75	% H ₂ S 0.	Prover 0.	Meter Run 2.1	Taps FLANGE	

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.	2.67 X 1.250			228.	14.0	38.	2980.	69.	0.	0.	72.0
2.	2.67 X 1.250			230.	48.4	18.	2580.	72.	0.	0.	1.0
3.	2.67 X 1.250			230.	84.0	10.	2260.	75.	0.	0.	1.0
4.	2.07 X 1.250			450.	70.0	22.	1880.	78.	0.	0.	1.0
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, Mcd
1.	8.12	62.12	241.2	1.0218	1.2471	1.0271	660.
2.	8.12	108.47	243.2	1.0430	1.2471	1.0309	1181.
3.	8.12	142.93	243.2	1.0518	1.2471	1.0326	1572.
4.	8.12	180.07	463.2	1.0387	1.2471	1.0594	2007.
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/cbl.
1.	0.36	498.	1.36	0.948	16.1	
2.	0.36	478.	1.30	0.941	60.4	
3.	0.36	470.	1.28	0.938	0.645	
4.	0.39	482.	1.31	0.891		
5.						

A.P.I. Gravity of Liquid Hydrocarbons 60.4 Deg. Specific Gravity Separator Gas 0.645 Specific Gravity Flowing Fluid 0.777 Critical Pressure 675. P.S.I.A. 668. P.S.I.A. Critical Temperature 367. °R 416. °R			
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P _c 3287.3 P _c ² 10808.	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5303$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3524$				
NO. P _r ² P _w ² P _w ² - P _r ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2714.$					
1	8957.	2983.	5977.	1400.		
2	6125.	7382.	6669.	6635.		
3	6137.	2232.	6117.	5162.		
4	6081.	1370.	6571.	3738.		
5						

Absolute Open Flow 2714. Mcd @ 15.025	Angle of Slope 50.7	Slope, n 0.242
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Remarks:

Approved By Commission:	Conducted By: B-J Well Testing	Calculated By: Don R. Craig	Checked By: Don R. Craig
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