

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

Form C-122
 Revised 9-1-65

1-57
 1-File
 1-122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-12-78		JUL 26 1978	
Company SOUTHLAND ROYALTY CO.				Connection UNDESIGNATED			
Pool Millmore Draw UNDESIGNATED				Formation STRAUN		Unit O.C.C. ARTESIA, OFFICE	
Completion Date 6 11 78		Total Depth 11100.		Plug Back TD 10170-10200.		Elevation 3508.	
Csq. Size 5.500	Wt. 20.0	d 4.778	Set At 11100.	Perforations: From 9666. To 9704.		Well No. 1	
Tq. Size 2.375	Wt. 4.7	d 1.995	Set At 9602.	Perforations: From 0. To 0.		Unit Soc. Twp. Rge. N 18 19 28	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 9602.		County EDDY	
Producing Thru TRG		Reservoir Temp. °F 168.8 9685.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2	
L 9685.	H 9685.	Gg 0.744	% CO ₂ 4.99	% N ₂ 2.40	% 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
SI							2300.	82.			24.0
1.	2.07 X 0.750			150.	4.0	69.	2120.	77.	0.	0.	1.0
2.	2.07 X 0.750			300.	10.6	65.	1870.	77.	0.	0.	1.0
3.	2.07 X 0.750			390.	19.2	67.	1630.	79.	0.	0.	1.0
4.	2.07 X 0.750			472.	28.6	68.	1260.	81.	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, Mcfd
1	2.71	25.55	163.2	0.9915	1.1593	1.0176	81.
2	2.71	57.62	313.2	0.9952	1.1593	1.0356	187.
3	2.71	87.99	403.2	0.9933	1.1593	1.0455	287.
4	2.71	117.80	485.2	0.9924	1.1593	1.0547	387.
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.24	529.	1.36	0.966	0.	
2.	0.46	525.	1.35	0.932	60.4	
3.	0.59	527.	1.36	0.915		
4.	0.71	528.	1.36	0.899		
5.						

A.P.I. Gravity of Liquid Hydrocarbons		60.4		Deq.	
Specific Gravity Separator Gas		0.744		XXXXXXX	
Specific Gravity Flowing Fluid		XXXXX		0.744	
Critical Pressure		683.		P.S.I.A.	
Critical Temperature		389.		R	

P _c 2282.6	P _c ² 5210.					
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4385$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4385$
1	4551.	2111.	4458.	753.		
2	3546.	1863.	3471.	1740.		
3	2700.	1623.	2636.	2575.		
4	1621.	1260.	1588.	3622.		
5						

Absolute Open Flow		557		Mcf @ 15.025		Angle of Slope θ		45.0		Slope, n		1.000	
Remarks:													
Approved By Commission: _____ Conducted By: B-J Well Testing Co. Calculated By: Don Craig/ Southland Royalty Co. Checked By: _____													

*Positive
 and 4.60
 7-25-78
 SI*