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JUN 17 1980 MULTIPPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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O. C. D.

JUN 16 1980

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-30-80	
Company Southland Royalty Company ✓		Connection None	
Pool Undersaturated		Formation Morrow	
Completion Date 5-24-80		Total Depth 10,510'	
Plug Back TD 8200'		Elevation 3392' Gr.	
Farm or Lease Name Pecos River Fed "20"		Well No. 1	
Csg. Size 4.5"	Wt. 11.6#	d 4.000	Set At 10,270'
Perforations: From 8186' To 8190'		Unit J	
Tbg. Size 2.375"	Wt. 4.7#	d 1.995	Set At 8140'
Perforations: From 0 To 0		Sec. 20	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 8140'	
Producing Thru Tbg		Reservoir Temp. °F 130 @ 8188'	
Mean Annual Temp. °F 50.0		Baro. Press. - P _a 13.2	
State New Mexico		County Eddy	
L 8188	H 8188	G _q 0.663	% CO ₂ 0.32
% N ₂ 0.95	% H ₂ S 0.12	Prover 0.0	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							1820	60			72.0
1.	2.07 X 1.250			215	18.0	87	1775	68	0	0	1.0
2.	2.07 X 1.250			215	25.0	82	1750	72	0	0	1.0
3.	2.07 X 1.250			210	38.0	80	1720	75	0	0	1.0
4.	2.07 X 1.250			270	75.0	70	1630	75	0	0	1.0
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	8.12	64.09	228.2	0.9750	1.2281	1.0203	636
2	8.12	75.53	228.2	0.9795	1.2281	1.0209	753
3	8.12	92.10	223.2	0.9813	1.2281	1.0206	920
4	8.12	145.74	283.2	0.9905	1.2281	1.0276	1479
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	0.34	547	1.46	0.961	0.0	65.0	0.663	XXXXXX	670	375
2.	0.34	542	1.44	0.959				XXXXX		
3.	0.33	540	1.44	0.960						
4.	0.42	530	1.41	0.947						
5.										

P _c 1833.2	P _c ² 3361	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.1308$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.6241$
NO	P _t ²	P _w	P _w ²
1	3198	1783	3179
2	3109	1756	3082
3	3004	1725	2977
4	2700	1645	2706
5			

AOE = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5362$

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Absolute Open Flow	5362	Mcfd @ 15.025	Angle of Slope θ	51.8	Slope, n	.788
Remarks:						
Approved By Commission:						
Conducted By:		Calculated By:		Checked By:		
BJ Well Testing		Don Craig		Don Craig		