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File
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N MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-26-79		DEC 3 - 1979		
Company Southland Royalty Company					Connection El Paso Nat. Gas		O. C. C.		
Pool South Millman Morrow					Formation Morrow		Unit STESIA, OFFICE		
Completion Date 10 19 78			Total Depth 11340		Plug Back TD 11110		Elevation 3493		
Farm or Lease Name State 19 Comm.					Well No. 2				
Csg. Size 4.500		Wt. 11.6		Set At 4.000		11150		Perforations: From 10748 To 11062	
Tbg. Size 2.375		Wt. 4.7		Set At 1.995		10650		Perforations: From 0 To 0	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 10650		County Eddy		
Producing Thru Tbg			Reservoir Temp. °F 168 @ 10905		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		
L 10905		H 10905		G _g 0.636		% CO ₂ 0.74		% N ₂ 0.57	
						% H ₂ S 0		Prover 0	
								Meter Run 4.0	
								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							3030	60			24.0
1.	4.03 x 1.250			518	7.6	84	2645	66	0	0	1.0
2.	4.03 x 1.250			525	16.0	80	2335	66	0	0	1.0
3.	4.02 x 1.250			533	31.0	76	1870	67	0	0	1.0
4.	4.02 x 1.250			540	44.0	80	1220	67	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	7.47	63.54	531.2	0.9777	1.2539	1.0437	607
2	7.47	92.80	538.2	0.9813	1.2539	1.0457	892
3	7.47	130.12	546.2	0.9850	1.2539	1.0477	1258
4	7.47	156.02	553.2	0.9813	1.2539	1.0469	1501
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	0.79	544	1.48	0.918	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	0.80	540	1.47	0.915	Specific Gravity Separator Gas _____
3	0.81	536	1.46	0.911	Specific Gravity Flowing Fluid _____
4	0.82	540	1.47	0.912	Critical Pressure _____ P.S.I.A.
5					Critical Temperature _____ °R

P _c 3043.2	P _c ² 9261	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2048$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1445$
NO.	P _t ²	P _w	P _w ²
1	7066	2654	7043
2	5514	2347	5509
3	3546	1889	3567
4	1521	1255	1574
5			

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope θ _____ 54.1	Slope, n _____ 0.725
Remarks: _____			
Approved By Commission:	Conducted By: B.J. TESTING	Calculated By: D. CRAIG	Checked By: D. CRAIG