

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

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JUL 15 1976

Type Well <input checked="" type="checkbox"/> Conventional <input type="checkbox"/> Special		Test Date 7-9-76	
Well Name LaRue & Muncy A.		Formation Grayburg (Premier)	
Well No. 1		Unit 0 8 14S 28E	
Perforations: 1575 - 1612		Elevation 3560 ft.	
From Open Hole To		Firm or Lease Name Nola Federal	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	
Producing Thru Tubing		Baro. Press. - P _a 13.2	
Reservoir Temp. *F 75 @ 1612		Mean Annual Temp. *F 70	
L 1612		H 1612	
G _g 0.734		% CO ₂	
		% N ₂ 0.2303	
		% H ₂ S	
		Prover Pos. Ck.	
		Meter Run	
		Taps	

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. *F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	Temp. *F	
SI							1277		1277		
1.	2"	x	1/8	1269		74	1269	70	1269		60 min.
2.	2"	x	12/64	1255		74	1255	70	1259		45 min.
3.	2"	x	1/4	1249		73	1249	70	1249		30 min.
4.	2"	x	20/64	1228		73	1228	70	1245		45 min.
5.	2"	x	30/64	1129		73	1129	70	1200		45 min.

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
2	0.6101		1268.2	0.9868	1.167	1.174	1046
3	1.112		1262.2	0.9877	1.167	1.176	1903
4	1.771		1241.2	0.9877	1.167	1.170	2964
5	4.128		1142.2	0.9877	1.167	1.155	6278

NO.	Temp. *K	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.92	534	1.33	.724		0.734		668	401
2	1.90	534	1.33	.726					
3	1.89	533	1.33	.723					
4	1.86	533	1.33	.731					
5	1.71	533	1.33	.750					

NO.	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 8.626943$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.626943$
1	1282.2	1644	21		
2	1272.2	1618	47		
3	1262.2	1593	72		
4	1258.2	1583	82		
5	1213.2	1472	193		

Area = **54160** Mcfd @ 15.025 Angle of Slope = **45°** Slope, n = **1.000**

Approved By Commission: _____ Conducted By: **Marshall Morris** Calculated By: **F. Tefteller** Checked By: _____