

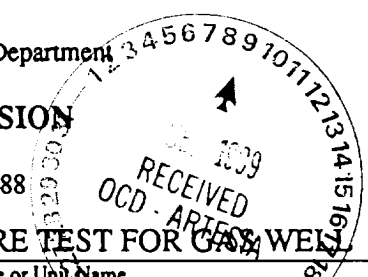
Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator Mewbourne Oil Company				Lease or Unit Name Scoggins Draw 4 St. Com			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-25-99			
Completion Date 8-7-99		Total Depth 10470		Plug Back TD 10150		Elevation 3657 GL	
Csg. Size 5 1/2		Wt. 17#		d 4.892		Set At 10470	
Tbg. Size 2 7/8		Wt. 6.5#		d 2.441		Set At 9824	
Perforations: From: 9830 To: 9840				County Eddy			
Perforations: From: Open To: Ended				Pool Undesignated			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9824			
Producing Thru Tbg		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2	
L 9824		H 9824		Gg 0.665		% CO ₂ 0.169	
				% N ₂ 1.400		% H ₂ S	
				Prover		Meter Run 3.068	
						Taps FTG	
Formation Atoka				Connection El Paso			

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						1475		PACKER		24 hrs
1.	3.068 x 1.500		385	8	82	751				1 hr
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$h_w P_m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11.13	56.44	398.2	.9795	1.226	1.070	807
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcfd/bbl.
1.	1.14	542	1.44	.873	A.P. I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2.					Specific Gravity Separator Gas	.655	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure *	669	P.S.I.A. P.S.I.A.
5.					Critical Temperature *	375	R R

P_c **1488.2** P_c² **2214.7**

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		769.0	591.4	1623.3
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2214.7}{1623.3} = 1.364$

2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.101$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.101$

Absolute Open Flow **1,101** Mcfd @ 15.025 Angle of Slope θ **45** Slope, n **1.000**

Remarks: **Well produced no fluid**
* Corrected to 1.400% N₂

Approved By Division	Conducted By: Jarrel Services, Inc	Calculated By: Bob Murray	Checked By: Bob Murray
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