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

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MAY - 4 1992
O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator: MEWBOURNE OIL COMPANY							Lease or Unit Name: RED LAKE ST.				
Type Test: [X] Initial [ ] Annual [ ] Special							Test Date: 4-17-92			Well No.: 1	
Completion Date: 2-28-92		Total Depth: 9810		Plug Back TD: 9748			Elevation:			Unit Ltr. - Sec. - TWP - Rge.: N 16 18 27	
Csg. Size: 5½	Wt.:	d:	Set At: 9810	Perforations: From: 9630		To: 9650				County: Eddy	
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 9450	Perforations: From:		To:				Pool: Red Lake Atoka-Morrow	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single				Packer Set At: 9450						Formation: Morrow	
Producing Thru: TBG	Reservoir Temp. °F: 169@9450		Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2						Connection:	
L: 9450	H: 9450	Gg: .632	% CO_2: .50	% N_2: .24		% H_2S:	Prover:		Meter Run: 3.068		Taps: FLG.

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					2200		Pkr.		72hrs.
1.	3 X 1.250	415	3.70	60	1440		"		1hr
2.									
3.									
4.									
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, F pv.	Rate of Flow Q, Mcfd
1.	7.577	39.80	428.2	1.000	1.258	1.043	397
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.63	520	1.41	.919
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 264.7 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 56.0 @60° Deg.
Specific Gravity Separator Gas .632 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX GMIX = .643
Critical Pressure 670 P.S.I.A. 670 P.S.I.A.
Critical Temperature 368 R 372 R

P_c 2213.2 P_c^2 4898.3

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1453.8	2113.4	2784.9
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.759$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.759$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .698$

Absolute Open Flow 698 Mcfd @ 15.025 | Angle of Slope θ 45 | Slope, n 1.000

Remarks: Well made 1.50 BBLS 56.0 API CONDENSATE

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTERS	BM	BM