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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

C/SF

Form C-122
Revised October, 1999

30-015-30692

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	MEWBOURNE OIL CO.					Lease or Unit Name	EMPIRE "18" ST. COM		
Type Test: ☑ Initial ☐ Annual ☐ Special						Test Date: 1/15/01	Well No.: 1		
Completion Date: 1/22/00	Total Depth: 10,799'			Plug Back TD: 10,704'		Elevation: 3,644'	Unit Ltr - Sec - TWP - Rge: I-18-17S-29E		
Csg. Size: 5 1/2	Wt.: 17	d: 4.892	Set At: 10,799'	Perforations: From: 10498	To: 10558		County: EDDY		
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 10413	Perforations: From:	To:		Pool: South Empire Morrow		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 10413			Formation: MORROW		
Producing Thru: TUBING	Reservoir Temp.°F: 178.1	Mean Annual Temp. °F: 60		Baro. Press.-P_a: 13.2			Connection: SALES		
L: 10413	H: 10413	Gg: 0.666	%CO_2: 0.491	%N_2: 0.674	%H_2S: N/A	Prover: N/A	Meter Run: 3.067		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					3200	N/A	PKR	N/A	
1	3.067 X .750	260	22	62	310				24 HRS
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 F_g	Super Compress Factor F pv	Rate of Flow Q. Mcfd
1							1020
2	GAS	VOLUMES	FROM	TOTAL	FLOW	METER	
3							
4							
5							

No.	P_r	Temp. °R	T_r	Z
1				
2	TOTAL	FLOW	METER	
3				
4				
5				

Gas Liquid Hydrocarbon Ratio: 72.857 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 52 Deg.
Specific Gravity Separator Gas: .666 / G.MIX= .707 XXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 673 P.S.I.A. 671 P.S.I.A.
Critical Temperature: 374 R 388 R

P_c: 3213 P_c2: 10324.7

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	104.5	343.4	117.9	10206.8
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 1.012 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1.012

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1032

Absolute Open Flow: 1032 Mcfd @ 15.025 Angle of Slope (): 45 Slope n: 1

Remarks: * WELL MADE 14 BBLS OF 52 API GRAVITY CONDENSATE DURING TEST.

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MERV BUECKER	BM