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

State of New Mexico
Energy, Minerals and Natural Resources De[illegible]ent

c15F

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 WELL

Operator ~~Mewborne Oil Co.~~ Mewbourne Oil Co.						Lease or Unit Name Carlsbad 15 Fed		
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/26/98		Well No. 1
Completion Date		Total Depth 11200		Plug Back TD 11,109		Elevation		Unit Ltr. - Sec. - TWP - Rge. 15 21-S 26-E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11,197	Perforations: From: 10754	To: 10774			County Eddy
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10,768	Perforations: From:	To:			Pool Avalon Morrow
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10768				Formation
Producing Thru tbg	Reservoir Temp. °F 186.9	Mean Annual Temp. °F 60°		Baro. Press - P_a 13.2				Connection Sales
L 10768	H 10768	Gg .594	% CO_2 .975	% N_2 .278	% H_2S 0	Prover 0	Meter Run 6.065	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					3450		Pkr		
1.	6.065 X 3.250	374	5.1	96	3420	78°	pkr	---	60 min
2.	6.065 X 3.250	394.7	18.1	83	3350	78°	pkr	-----	60 min
3.	6.065 X 3.250	420.6	38.5	85.9	3215	78°	pkr	----	60 min
4.	6.065 X 3.250	415.3	64.1	84.2	3025	78°	pkr	-----	60 min
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, Fpv.	Rate of Flow Q, Mcfd
1.							3.020
2.							6.004
3.		READINGS FROM TOTAL FLOW METER					9.048
4.							12163
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons N/A Deg.
Specific Gravity Separator Gas .594 XXXXXXXXX
Specific Gravity Flowing Fluid N/A XXXXX N/A
Critical Pressure 675 P.S.I.A. N/A P.S.I.A.
Critical Temperature 350 R N/A R

P_c 3435.9 P_c^2 11,805.4

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		3417.0	11,675.8	129.6
2.		3386.5	11,468.4	337.0
3.		3347.8	11,207.8	597.6
4.		3301.4	10,896.6	908.8
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 12.99$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.25$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 76018.7$

Absolute Open Flow 76018.7 Mcfd @ 15.025 | Angle of Slope θ 54.4 | Slope, n .715

Remarks: *Calculated from known bottom hole pressures
*No fluid made during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testing	M.B.	B.M.