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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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O. C. D.

Form C-122
Revised 4-1-91

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MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: MW PETROLEUM CORPORATION						Lease or Unit Name: HOC FED. GAS COM.		
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 5/20-21/92	Well No.: 2	
Completion Date: 3/17/92		Total Depth: 7800		Plug Back TD: 7780		Elevation:	Unit Ltr. - Sec. - TWP - Rge.: D 13 22S 23E	
Csg. Size: 5½"	Wt.:	d:	Set At: 7800	Perforations: From: 7629	To: 7758		County: EDDY	
Tbg. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 7523	Perforations: From:	To:		Pool: INDIAN BASIN	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 7523			Formation: UPPER PENN	
Producing Thru: TBG	Reservoir Temp. °F: 149 @ 7325		Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2			Connection:	
L: 7523	H: 7523	Gg: .627	% CO_2: .52	% N_2: .94	% H_2S:	Prover:	Meter Run: 4.026	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						950		PKR		24 HRS
1.	4	X 1.250	681	59.29	65	800		PKR		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 Fg.	Super Compress. Factor, F pv.	Rate of Flow Q, Mcfd
1.	7.469	202.88	694.2	.9952	1.263	1.071	2,040
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	1.03	525	1.43	.871
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P. I Gravity of Liquid Hydrocarbons 61.5 @ 60° Deg.
Specific Gravity Separator Gas .627 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX G MIX = .721
Critical Pressure 671 P.S.I.A. 668 P.S.I.A.
Critical Temperature 365 R 398 R

P_c 963.2 P_c^2 927.8

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		696.3	484.8	442.9
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.095$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.095$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.274$

Absolute Open Flow 4,274 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.000

Remarks: WELL MADE 11.0 BBLS 61.5 API GR CONDENSATE DURING TEST AND 4.0 BBLS. H2O. A ONE (1) POINT WAS CONDUCTED DUE TO WELL LOGGS OFF ON LOW RATES AND SHUT-INS ALSO SIP WAS USED FROM PREVIOUS INFORMATION AS COMPLETED.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	JOHN WEST ENGINEERING	BM	BM