c/s F

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

Form C-122
Revised October, 1999

MAY 2000 RECEIVED OCD - ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: MARATHON OIL CO.			Lease or Unit Name: YATES FED COM.		
Type Test: ☑ Initial ☐ Annual ☐ Special			Test Date: 5/10/00		Well No.: 1
Completion Date	Total Depth: 11712		Plug Back TD: 11710	Elevation	Unit Ltr - Sec - TWP - Rge: 8 20-S 29-E
Csg. Size: 4.5 / Wt.: 13.5 / d: 3.92	Set At: 11710		Perforations: From: 11392 To: 11476		County: EDDY
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995	Set At: 11329		Perforations: From: To:		Pool: East Burton Flat Morrow
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE			Packer Set At: 11329		Formation: MORROW
Producing Thru: Tbg. Size	Reservoir Temp. °F: 187.3	Mean Annual Temp. °F: 60	Baro. Press.-P_a: 13.2		Connection: SALES

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
11329	11329	0.611	0.864	0.505	N/A	N/A	3.067	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					2950	N/A	PKR	N/A	7 DAYS
1	3.067 X 1.000	61.2	219.4	64.1	450				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							830
2	GAS VOLUMES	MEASURED	BY	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	N/A		Mcf bbl.
A.P. I. Gravity of Liquid Hydrocarbons	N/A		Deg.
Specific Gravity Separator Gas	0.611	XXXXXXX	
Specific Gravity Flowing Fluid	N/A	XXXXX	
Critical Pressure	674	P.S.I.A.	P.S.I.A.
Critical Temperature	358	R.	R

P_c 3317.9 P_c2 11008.5

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	214.6	463.2	214.6	10793.9
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 1.02 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1.02

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 0.846

Absolute Open Flow 0.846 Mcfd @ 15.025 | Angle of Slope (): 45 | Slope n: 1

Remarks: * CALCULATED FROM KNOWN SHUT IN BOTTOM HOLE PRESSURE.

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MB	BM