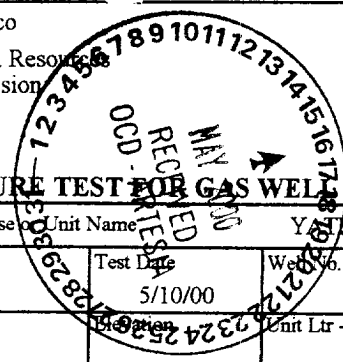


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Submit in duplicate to appropriate district office.
See Rule 401 & Rule 1122

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



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator MARATHON OIL CO.				Lease or Unit Name YATES FED COM.			
Type Test ☒ Initial ☐ Annual ☐ Special							
Completion Date		Total Depth 11712		Plug Back TD 11710		Well No. 1	
Csg. Size 4.5	Wt. 13.5	d 3.92	Set At 11710	Perforations: From: 11392 To: 11476		Unit Ltr - Sec - TWP - Rge 8 20-S 29-E	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11329	Perforations: From: To:		County EDDY	
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 11329	H 11329	Gg 0.611	%CO ₂ 0.864	%N ₂ 0.505	%H ₂ S N/A	Prover N/A	Meter Run 3.067
Taps FLG							

FLOW DATA				TUBING DATA				CASING DATA				Duration of Flow
No.	Prover Line Size	Orifice x 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			
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												

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	Gas Liquid Hydrocarbon Ratio	Mcf bbl.
1					N/A	
2	TOTAL	FLOW	METER		A.P. I. Gravity of Liquid Hydrocarbons N/A	Deg.
3					Specific Gravity Separator Gas 0.611	XXXXXX
4					Specific Gravity Flowing Fluid N/A	XXXXX
5					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 _i ²	P _w	P _w ²
1	214.6	463.2	214.6
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.02$

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

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

Absolute Open Flow	0.846	Mcf @ 15.025	Angle of Slope (°):	45	Slope n:	1
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Remarks: *** CALCULATED FROM KNOWN SHUT IN BOTTOM HOLE PRESSURE.**

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