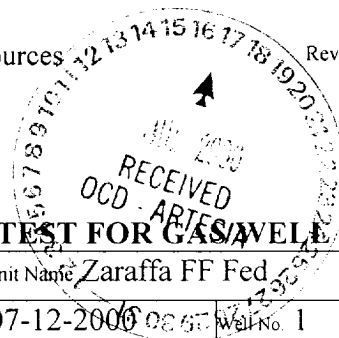


Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator Marbob Energy Corporation						Lease or Unit Name Zaraffa FF Fed					
Type Test ☐ Initial ☐ Annual ☐ Special XX						Test Date 07-12-2000 Well No. 1					
Completion Date 04-10-00		Total Depth 10300		Plug Back TD 10283		Elevation 3539		Unit Ltr. - Sec. - TWP - Rge. 1 12 21S 24E			
Csg. Size 4.5	Wt. 11.6	D D	Set At 10300	Perforations: From: 10048 To: 10134				County Eddy			
Thg. Size 2.375	Wt. 4.7	D 1.99	Set At 9936	Perforations: From: To:				Pool SE Cemetery Morrow			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 9936		Formation Morrow			
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press - P _a 13.2		Connection Pipeline			
L	H	Gg 0.58	%CO ₂ 0.8	%N ₂ 0.29	%H ₂ S 0.0	Prover		Meter Run 2 inch		Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration
No.	Prover Line Size	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	Of Flow
SI						3250				ITHP
1.										
2.	Data from LG&E					300				Current
3.	Meter Run on									Flow
4.	Location									Rate
5.										

RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							
2.							624.0
3.							
4.							
5.							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A. P. I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas 0.580	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXXX	
4.					Critical Pressure P.S.I.A.	P.S.I.A.
5.					Critical Temperature R.	R

No.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1.				
2.				
3.				
4.				
5.				

P_c **1790** P_c² **3204**

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.008594$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.008594$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 630$

Absolute Open Flow 630 Mcfd @ 15.025		Angle of Slope θ: 45		Slope, n: 1.0	
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Remarks: **Single point AOF test completed on data of current THP and FLOW RATE along with ITHP**

Approved By Division	Conducted By: Keltic Services	Calculated By: JJ McGlasson	Checked By:
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