

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
RECEIVED

30-015-32981 JUN 23 2004

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL **QCD-ARTESIA**

Operator MEWBOURNE OIL				Lease or Unit Name TAMANO "10" FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4/14/04	Well No. 2
Completion Date 3/26/04		Total Depth 12200		Plug Back TD 12117		Elevation 3723	Unit Ltr - Sec - TWP - Rge D 10 18S 31E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12187	Perforations: From: 11804 To: 11826			County EDDY
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11689	Perforations: From: To:			Pool SHUGART NORTH
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11677		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. 176	Mean Annual Temp. 60	Baro. Press.-P _a 13.2			Connection SALES
L 11689	H 11689	Gg 0.699	%CO ₂ 0.567	%N ₂ 0.651	%H ₂ S	Prover Meter Run 4.026	Taps FLG
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff h _w	Temp.	Press p.s.i.g.	Temp.
SI						2413.2	
1	4.026 X 1.000		97	34.6	71	110	
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}
1							
2	TOTAL		FLOW	METER			
3							
4							
5							
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio 39.48 Mcf bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons 50 @ 60 Deg.		
2					Specific Gravity Separator Gas 0.699 XXXXXXXX		
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid XXXXXX GMIX = .776		
4					Critical Pressure 672 P.S.I.A. 669 P.S.I.A.		
5					Critical Temperature 384 R. 411 R.		
P _c 2413.2 P _{c2} 5823.5							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.003}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.003$		
1		129.7	16.8	5806.7			
2							
3							
4							
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 330$		
Absolute Open Flow 330				Mcf/d @ 15.025	Angle of Slope (°): 45	Slope n: 1	
Remarks: * WELL MADE 25 BBLS OF 50 API GRAVITY OIL DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

MEWBOURNE OIL
TAMANO "10" FED COM #2



