

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 10/20/99
RECEIVED
SEP 16 2004

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL				Lease or Unit Name COLT 4 FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date	Well No. 1
Completion Date 7/9/04		Total Depth 11750		Plug Back TD 11485		Elevation 3316 GL.	Unit Ltr - Sec - TWP - Rge F 4 20S 29E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11737	Perforations: From: 11334 To: 11438			County EDDY
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11048	Perforations: From: To:			Pool EAST BURTON FLAT
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11030		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. 181		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
Connection SALES							
L 11048	H 11048	Gg 0.7	%CO ₂ 7.562	%N ₂ 1.902	%H ₂ S	Prover	Meter Run 3.067
						Taps FLG	

FLOW DATA				TUBING DATA				CASING DATA				Duration of Flow
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp.	Press p.s.i.g.	Temp.			
SI						600						
1	3.067 X 1.000		90	31	72	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}	Rate of Flow Q, Mcfd
1							364
2	TOTAL	FLOW	METER				
3							
4							
5							

No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Mcft bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons <td>N/A <td>Deg.</td> </td>	N/A <td>Deg.</td>	Deg.
2					Specific Gravity Separator Gas <td>0.7</td> <td>XXXXXXX</td>	0.7	XXXXXXX
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid <td>XXXXX</td> <td></td>	XXXXX	
4					Critical Pressure <td>693</td> <td>P.S.I.A.</td>	693	P.S.I.A.
5					Critical Temperature <td>376</td> <td>R.</td>	376	R.

No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		131.2	17.2	358.8
2				
3				
4				
5				

(1) $P_c^2 = \frac{2.835}{P_c^2 - P_w^2}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.381$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.835$

Absolute Open Flow	0.381	Mcfd @ 15.025	Angle of Slope (°)	45	Slope n:	1
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Remarks: *** NO LIQUID MADE DURING TEST.**

Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: BM
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MEWBOURNE OIL CO.
COLT 4 FED COM #1



