

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

JAN 07 1994

30-015-32888

OCD-ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL					Lease or Unit Name OTIS "1"				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date		Well No. 2		
Completion Date 11/21/03		Total Depth 12200		Plug Back TD 12133		Elevation 3089		Unit Ltr - Sec - TWP - Rge K 1 22S 27E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12198		Perforations: From: 11582 To: 11771		County EDDY		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11507		Perforations: From: To:		Pool EAST CARLSBAD		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 11497		Formation MORROW		
Producing Thru TUBING		Reservoir Temp. 168		Mean Annual Temp. 60		Baro. Press.-P _a 13.2		Connection SALES	
L 11507	H 11507	Gg 0.6843	%CO ₂ 9.892	%N ₂ 4.096	%H ₂ S	Prover	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.	Press p.s.i.g.	Temp.	Press p.s.i.g.	Temp.	
SI						1180				
1	3.067	X 1.000	100	25	74	100				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							320
2	TOTAL	FLOW	METER				
3							
4							
5							

No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Mcf bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons	N/A	Deg.
2					Specific Gravity Separator Gas	0.684	XXXXXXX
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid	XXXXX	
4					Critical Pressure	701	P.S.I.A.
5					Critical Temperature	385	R.

P _c	1193.2	P _w	1423.7
No.	P _t ²	P _w	P _w ²
1		119.9	14.4
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.01$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.01$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.323$

Absolute Open Flow	0.323	Mcf @ 15.025	Angle of Slope (°)	45	Slope n:	1
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Remarks:

Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: BM
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MEWBOURNE OIL CO.
OTIS "1" # 2



