

30-015-32845

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

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NOV - 7 2003

Form C-122
Revised October, 1999

OCD-ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL				Lease or Unit Name WINCHESTER "36" ST			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10/28/03	Well No. 1
Completion Date 9/3/03		Total Depth 11530		Plug Back TD 11426		Elevation 3294	Unit Ltr - Sec - TWP - Rge 36 19S 28E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11523	Perforations: From: 11010 To: 11104			County EDDY
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10945	Perforations: From: To:			Pool WINCHESTER MORROW
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10926		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. 168	Mean Annual Temp. 60	Baro. Press.-P _a 13.2			Connection SALES
L 10945	H 10945	Gg 0.64	%CO ₂ 3.26	%N ₂ 1.65	%H ₂ S	Prover 3.068	Meter Run 3.068
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						450	
1	3.068 X 1.000		280	10	70	280	
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	6.4		54.14	293.2	0.9905	1.25	1.044
2							
3							
4							
5							
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.		
1	0.77	530	1.47	0.918	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2					Specific Gravity Separator Gas 0.64 XXXXXXXX		
3					Specific Gravity Flowing Fluid XXXXXX		
4					Critical Pressure 680 P.S.I.A. P.S.I.A.		
5					Critical Temperature 362 R. R.		
P _c 463.2 P _c 214.6							
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	(1) $P_c^2 = 1.69$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.69$		
1	86	296.1	87.1	126.9			
2							
3							
4							
5							
Absolute Open Flow 0.573				Mcf/d @ 15.025	Angle of Slope (°): 45	Slope n: 1	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

MEWBOURNE OIL CO.
WINCHESTER "36" ST. # 1



