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See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

NOV - 7 2003

Form C-122
Revised October, 1999

OCD-ARTESIA

30-015-32849

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL				Lease or Unit Name FOSTER DRAW 9 ST. COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/28/03		Well No. 1	
Completion Date 10/3/03		Total Depth 11800		Plug Back TD 11665		Elevation 3235	
Csg. Size 5 1/2		Wt. 17		d 4.892		Set At 11800	
Tbg. Size 2 7/8		Wt. 6.5		d 2.441		Set At 10900	
Perforations: From: 11326 To: 11450				County EDDY			
Perforations: From: To:				Pool BURTON FLATS MORROW			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10970		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. 168		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
Connection SALES		L 10900		H 10900		Gg 0.652	
%CO ₂ 5.1		%N ₂ 2.19		%H ₂ S		Prover 3.068	
Meter Run 3.068		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.
SI						393	
1	3.068 X .750		470	40	70	120	
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	3.41	139	483.2	0.9905	1.238	1.044	468
2							
3							
4							
5							
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.		
1	0.77	530	1.47	0.918	A.P. I. Gravity of Liquid Hydrocarbons Deg.		
2					Specific Gravity Separator Gas 0.652 XXXXXXXX		
3					Specific Gravity Flowing Fluid XXXXXX		
4					Critical Pressure 688 P.S.I.A. P.S.I.A.		
5					Critical Temperature 360 R. R.		
P _c 406.2 P _{c2} 164.9							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.147}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.147$		
1	17.7	145.2	21.2	143.8			
2							
3							
4							
5							
Absolute Open Flow 0.537 Mcfd @ 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.
FOSTER DRAW 9 ST. COM # 1



