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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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL CO.				Lease or Unit Name RANCH HAND "5" FEE COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/20/01		Well No. 1	
Completion Date 2/8/01		Total Depth 12070		Plug Back TD 11894		Unit Ltr - Sec - TWP - Rge L 5 23S 27E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12070	Perforations: From: 11615 To: 11642		County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10602	Perforations: From: To:		Pool S CARLSBAD Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10605		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. °F 182		Mean Annual Temp. °F 60		Baro. Press.-P _a 13.2	
Connection SALES							
L 10605	H 10605	Gg 0.589	%CO ₂ 1.052	%N ₂ 0.305	%H ₂ S N/A	Prover N/A	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. °F	Press p.s.i.g.	Temp. °F
SI						2450	N/A
1	4.026 X 1.500		460	23	90	1875	
2	4.026 X 1.500		465	31	90	1825	
3	4.026 X 1.500		480	43	90	1725	
4	4.026 X 1.500		500	60	90	1510	
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							2284
2	GAS	VOLUMES	FROM	TOTAL	FLOW	METER	2417
3							2892
4							3487
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	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.589 XXXXXXXX		
3					Specific Gravity Flowing Fluid N/A XXXXXX		
4					Critical Pressure 675 P.S.I.A. P.S.I.A.		
5					Critical Temperature 346 R. R.		
P _c 2545.8 P _{c2} 6481							
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.66$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.66$		
1		1920.6	3688.7	2791.3			
2		1879.8	3533.6	2947.4			
3		1783	3179	3302			
4		1605.6	2577.9	3903.1			
5							
Absolute Open Flow 5788.4				Mcf/d @ 15.025		Angle of Slope (°): 45	
						Slope n: 1	
Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES. NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERY BUECKER		Checked By: BM	