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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

RECEIVED

Form C-122
Revised October, 1999

JAN 08 2004

OCD-ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL 30-015-33041

Operator MEWBOURNE OIL				Lease or Unit Name COLT "6" FED			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date		Well No. 1	
Completion Date 12/13/03		Total Depth 11670		Plug Back TD 11334		Elevation 3760	
Unit Ltr - Sec - TWP - Rge J '6 20S 29E		County EDDY		Pool EAST BURTON FLATS		Formation MORROW	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11670	Perforations: From: 11108 To: 11294		Connection SALES	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10588	Perforations: From: To:		Meter Run 3.068	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10567		Taps FLG	
Producing Thru TUBING		Reservoir Temp. 181		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
L 10588	H 10588	Gg 0.622	%CO ₂ 1.026	%N ₂ 0.792	%H ₂ S	Prover	Duration of Flow
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						2525	
1	3.068 X 1.250		481	6	74	2470	2 HRS
2	3.068 X 1.250		481	20	74	1860	4 HRS
3	3.068 X 1.250		484	60	73	1250	4 HRS
4	3.068 X 1.250		488	90	72	745	6 HRS
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							518
2	TOTAL	FLOW	METER				945
3							1643
4							2076
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 0.622 XXXXXXXX		
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid XXXXXX		
4					Critical Pressure 674 P.S.I.A. P.S.I.A.		
5					Critical Temperature 361 R. R		
P _c	2538.2	P _{c2}	6442.4				
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.109$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.053$		
1		2483.9	6169.7	272.7	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.186$		
2		1876.2	3520.1	2922.3			
3		1277.1	1630.9	4811.5			
4		796.8	634.9	5807.5			
5							
Absolute Open Flow 2.186				Mcf/d @ 15.025	Angle of Slope (°): 63.5	Slope n: 0.499	
Remarks:							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

MEWBOURNE OIL

COLT "6" FED #1



