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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

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Form C-122
Revised October, 1999

FEB 18 2004

OCD-ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

30-015-33122

Operator MEWBOURNE OIL				Lease or Unit Name WEST MALAGA 12 ST.					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-12-04		Well No. 1	
Completion Date 1-24-04		Total Depth 12860		Plug Back TD 12800		Elevation 3047 GL		Unit Ltr - Sec - TWP - Rge A 12 24 27	
Csg. Size 5 1/2	Wt. 17#	d 4.622	Set At 12860	Perforations: From: 12512 To: 12524			County EDDY		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10588	Perforations: From: To:			Pool BLACK RIVER MORROW		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 12414			Formation MORROW		
Producing Thru TBG		Reservoir Temp. °F 178.3 @ 12414		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection SALES	
L 12414	H 12414	Gg 0.574	%CO ₂ 1.245	%N ₂ 0.288	%H ₂ S N/A	Prover N/A	Meter Run		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	Press p.s.i.g.	Temp. °F
SI						2425		PKR	
1			521.8	22	95.1	2175		"	
2			528	35	89	2060		"	
3			531	50	91.9	1950		"	
4			535	67.2	93.1	1840		"	
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								702	
2								865	
3	MEASURED		BY		TOTAL		FLOW	1,051	
4								1,237	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio A.P. I. Gravity of Liquid Hydrocarbons				Mcf bbl.
1					DRY				Deg.
2					Specific Gravity Separator Gas 0.574				XXXXXXX
3		N/A			Specific Gravity Flowing Fluid XXXXXX				
4					Critical Pressure 0.676 P.S.I.A.				P.S.I.A.
5					Critical Temperature 345 R.				R
P _c 2138.2 P _{c2} 5944.8									
No.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} = 2.386$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.105$				
1		2189.6	4794.2	1150.6					
2		2075.4	4307.3	1637.5					
3		1966.6	3867.6	2077.2					
4		1858.2	3453	2491.8					
5					79825 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.601$				
Absolute Open Flow 2,601 Mcfd @ 15.025					Angle of Slope (°): 49.4		Slope n: 0.856		
Remarks: NO FLUID PRODUCED									
Approved By Division:		Conducted By: PROWELL TESTING & W.L.		Calculated By: BM		Checked By: BM			

FORM C122-D

MEWBOURNE OIL
WEST MALAGA 12 ST.

