

30-015-33686

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

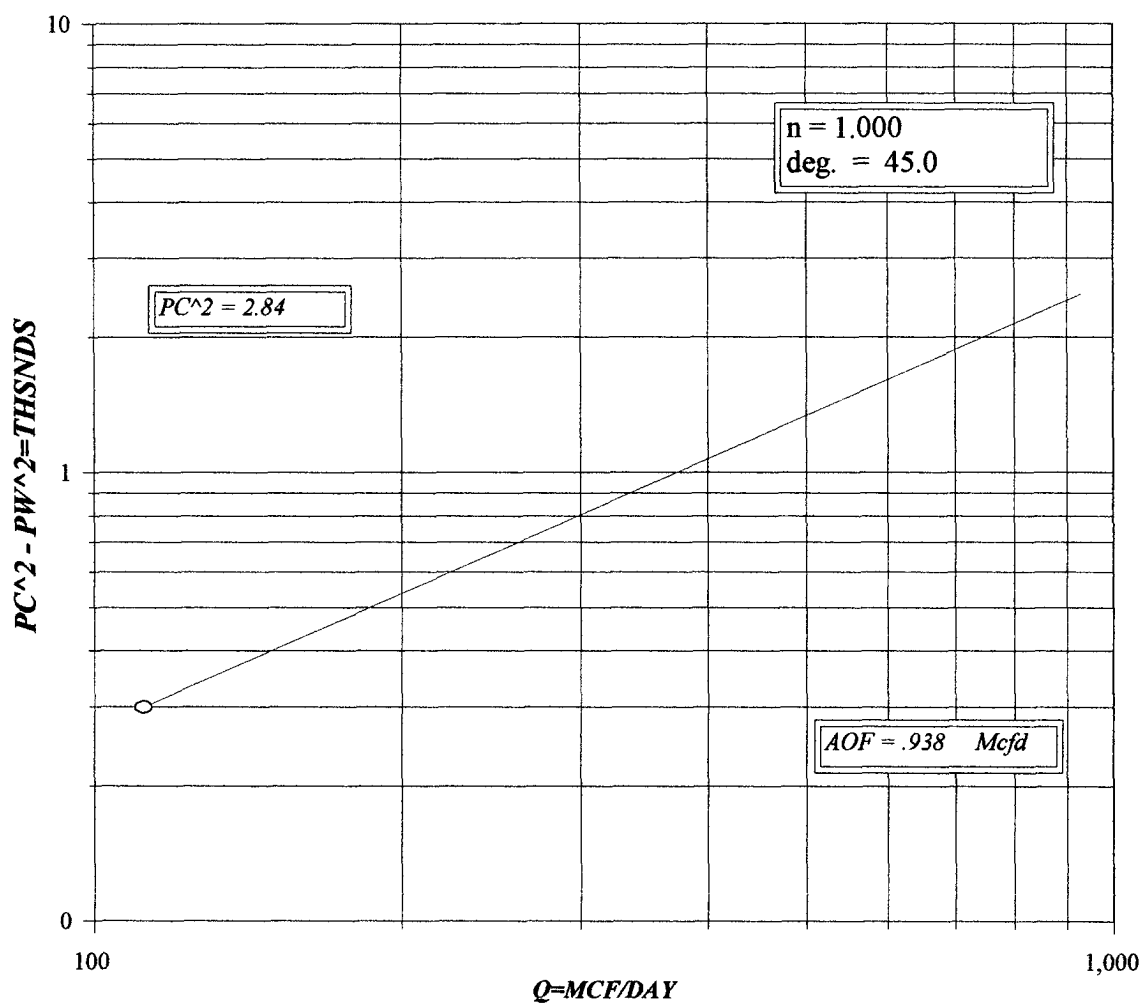
Form C-122
Revised October, 1999

RECEIVED
AUG 18 2005
OIL CONSERVATION DIVISION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL					Lease or Unit Name BLACK RIVER 26 ST COM						
Type Test ☒ Initial ☐ Annual ☐ Special							Test Date 3/4/2005		Well No. 1		
Completion Date 2/25/2005			Total Depth 11784			Plug Back TD 11583		Elevation 3238		Unit Ltr - Sec - TWP - Rge H 26 23S 26E	
Csg. Size 5 1/2		Wt. 17		d 4.892		Set At 12000		Perforations: From: 11470 To: 11562		County EDDY	
Tbg. Size 2 7/8		Wt. 6.5		d 2.441		Set At 11263		Perforations: From: To:		Pool S. CARLSBAD MORROW	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE							Packer Set At 11223		Formation MORROW		
Producing Thru TUBING			Reservoir Temp. 180		Mean Annual Temp. 60		Baro. Press.-P _a 13.2		Connection SALES		
L 11263		H 11263		Gg 0.594		%CO ₂ 2.094		%N ₂ 0.578		%H ₂ S 0	
								Prover N/A		Meter Run 3.068	
										Taps FLG	
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.	Press p.s.i.g.	Temp.	Duration of Flow	
SI						40					
1	3.067 X .875		41	15	61	35				24 HRS	
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								112			
2											
3	TOTAL		FLOW	METER							
4											
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 0.594 XXXXXXXX						
3					Specific Gravity Flowing Fluid XXXXXX						
4					Critical Pressure 679 P.S.I.A. N/A P.S.I.A.						
5					Critical Temperature 348 R. N/A R						
P _c 53.2 P _{c2} 2.84											
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{8.375}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8.375$						
1		49.9	2.5	0.3							
2											
3											
4											
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.938$						
Absolute Open Flow [.938]					Mcf/d @ 15.025		Angle of Slope (°): 45		Slope, n: 1		
Remarks: * NO LIQUID MADE DURING TEST.											
Approved By Division:			Conducted By: MEWBOURNE OIL			Calculated By: MERV BUECKER			Checked By: MB		

MEWBOURNE OIL CO.
BLACK RIVER ST. COM. #1



COMPANY : MEWBOURNE OIL		LEASE : BLACKRIVER 26 ST		WELL NO. : 1		Pc = 53.2		Pc2 = 2.8	
UNIT : H		SECTION : 26		TOWNSHIP : 23S					
L : 11263		H : 11263		L/H : 1		G/GMIX : 0.594		P12 = 2.3	
%CO2 : 2.094		%N2 : 0.578		H2S : 0.010763		DATE : 3/4/05		Pw = 49.9	
d : 2.441		Fr : 0.010763		GH : 6690.2		RANGE : 26E		0.0	
								0.0	
								0.0	
VOL 1 : 112		PSIA 1 : 48.2		RESV.TEMP : 186.6		Pc2-Pw2 = 0.3		Pw2 = 2.5	
VOL 2 :		PSIA 2 :		SHUT-IN PRI = 53.2		#DIV/0!		#DIV/0!	
VOL 3 :		PSIA 3 :				#DIV/0!		#DIV/0!	
VOL 4 :		PSIA 4 :				#DIV/0!		#DIV/0!	
		PCR : 679				n = 1.000			
		TCR : 348				Pc2/(Pc2-Pw2) = 8.375		#DIV/0!	
								#DIV/0!	
								#DIV/0!	
LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1 QM	0.112	0.112	0.000	0.000	0.000	0.000	0.000	0.000	
2 TW	534	534	534	534	534	534	534	534	
3 Ts	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	
4 T	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	
PR (est)	0.07		0.00		0.00		0.00		
5 Z(est)	0.971	0.970	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
6 TZ	573.1	572.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
7 GH/TZ	11.673	11.681	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
8 eS	1.549	1.550	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
9 I-e-S	0.355	0.355	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
10 Pt	48.2	48.2	0.0	0.0	0.0	0.0	0.0	0.0	
11 P12 /1000	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	
13 Fc=FrTZ	6.169	6.164	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
14 FcQm	0.69	0.69	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
15 L/H(FcQm)Z	0.5	0.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
16 Fw	0.169216	0.169077	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
17 Pw2	2.5	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
18 Ps2	3.9	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
19 Ps	62.1	62.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
20 P	55.2	55.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
21 Pr	0.08	0.08	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
22 Tr	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	
23 Z	0.970	0.970	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
								FORM C122-D	