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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

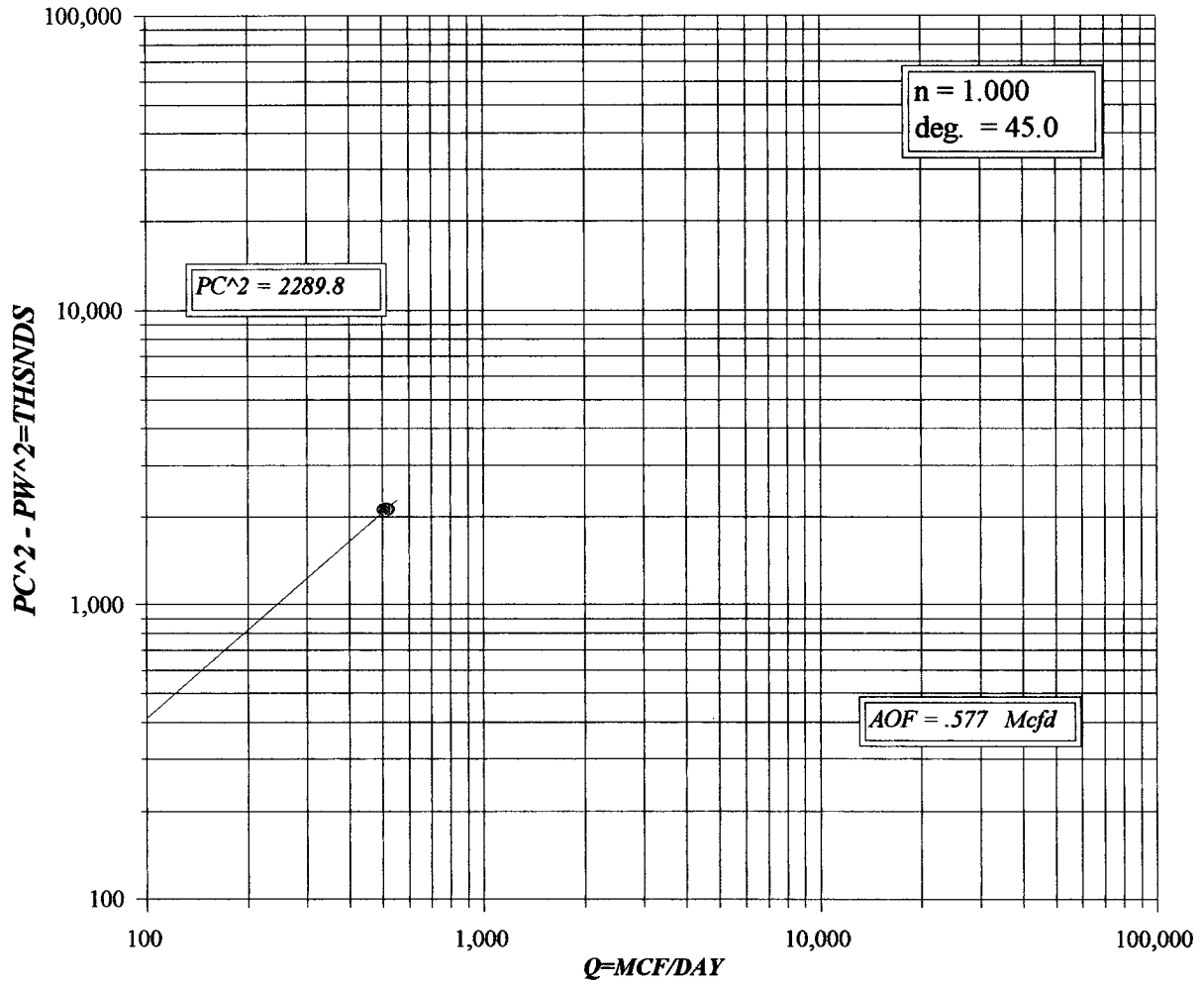
Form C-122
Revised October, 1999

30-025-36165

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL					Lease or Unit Name ROCKY 16 STATE				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6/19/03		Well No. 1		
Completion Date 5/2/03		Total Depth 12975		Plug Back TD 12891		Elevation 4020		Unit Ltr - Sec - TWP - Rge M 16 16 35	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12975		Perforations: From: 12786 To: 12798			County LEA	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 12351		Perforations: From: To:			Pool TOWSEND MISSISSIPPIAN	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 12345			Formation MISSISSIPPIAN	
Producing Thru Tubing		Reservoir Temp. °F 181		Mean Annual Temp. °F 60		Baro. Press.-P _a 13.2			Connection SALES
L 12345	H 12345	Gg 0.699	%CO ₂ 1.871	%N ₂ 0.932	%H ₂ S N/A	Prover N/A	Meter Run 3.067	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						1500	N/A	PKR	N/A
1	3.067 X 1.500		100	13	101	400			
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	11.13		38.4	113.2	0.9628	1.196	1.049		516
2									
3									
4									
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio				Mcf bbl.
1	0.83	561	1.46	0.909	N/A				
2					A.P. I. Gravity of Liquid Hydrocarbons				Deg.
3					Specific Gravity Separator Gas				0.699
4					Specific Gravity Flowing Fluid				N/A
5					Critical Pressure				674
					Critical Temperature				383
P _c 1513.2 P _{c2} 2289.8									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.081}{1.081}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.081}{1.081}$				
1		413.2	170.7	2119.1					
2									
3									
4									
5									
Absolute Open Flow 0.577					Mcf/d @ 15.025		Angle of Slope (°) 45		Slope n: 1
Remarks:									
Approved By Division: <i>[Signature]</i>			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: MB	

MEWBOURNE OIL
ROCKY 16 STATE #1



COMPANY : MEWBOURNE OIL		LEASE : ROCKY 16		STATE	WELL NO. : 1	Pc = 1513.2		Pc2 = 2289.8	*
UNIT : M		SECTION : 16		TOWNSHIP : 16		P12 = 170.7		Pw = 417.8	*
L :	12351	H :	12351	L/H :	1	G/GMIX :	0.699	DATE :	5/16/03
%CO2 :	1.871	%N2 :	0.932	H2S :		RANGE :	35		
d :	2.441	Fr :	0.010763	GH :	8197.0				
VOL 1 : 516 PSIA 1 : 413.2 RESV.TEMP 181.0						Pc2-Pw2 = 2115.2		Pw2 = 174.6	*
VOL 2 : PSIA 2 :						#DIV/0!		#DIV/0!	*
VOL 3 : PSIA 3 :						#DIV/0!		#DIV/0!	*
VOL 4 : PSIA 4 :						#DIV/0!		#DIV/0!	*
PCR : 674						n = 1.000			*
TCR : 383						Pc2/(Pc2-Pw2) = 1.083			*
LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1 QM	0.516	0.516	0.000	0.000	0.000	0.000	0.000	0.000	
2 TW	534	534	534	534	534	534	534	534	
3 Ts	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	
4 T	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5	
PR (est)	0.61		0.00		0.00		0.00		
5 Z(est)	0.921	0.912	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
6 TZ	541.0	535.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
7 GH/TZ	15.152	15.304	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
8 eS	1.765	1.775	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
9 I-e-S	0.433	0.437	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
10 Pt	413.2	413.2	0.0	0.0	0.0	0.0	0.0	0.0	
11 P12 /1000	170.7	170.7	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	5.823	5.765	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
14 FcQm	3.00	2.97	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
15 L/H(FcQm)2	9.0	8.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
16 Fw	3.9126835	3.8638738	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
17 Pw2	174.6	174.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
18 Ps2	308.3	309.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
19 Ps	555.2	556.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
20 P	484.2	485.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
21 Pr	0.72	0.72	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
22 Tr	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	
23 Z	0.912	0.912	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
FORM C122-D									*