

30-015-33900

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

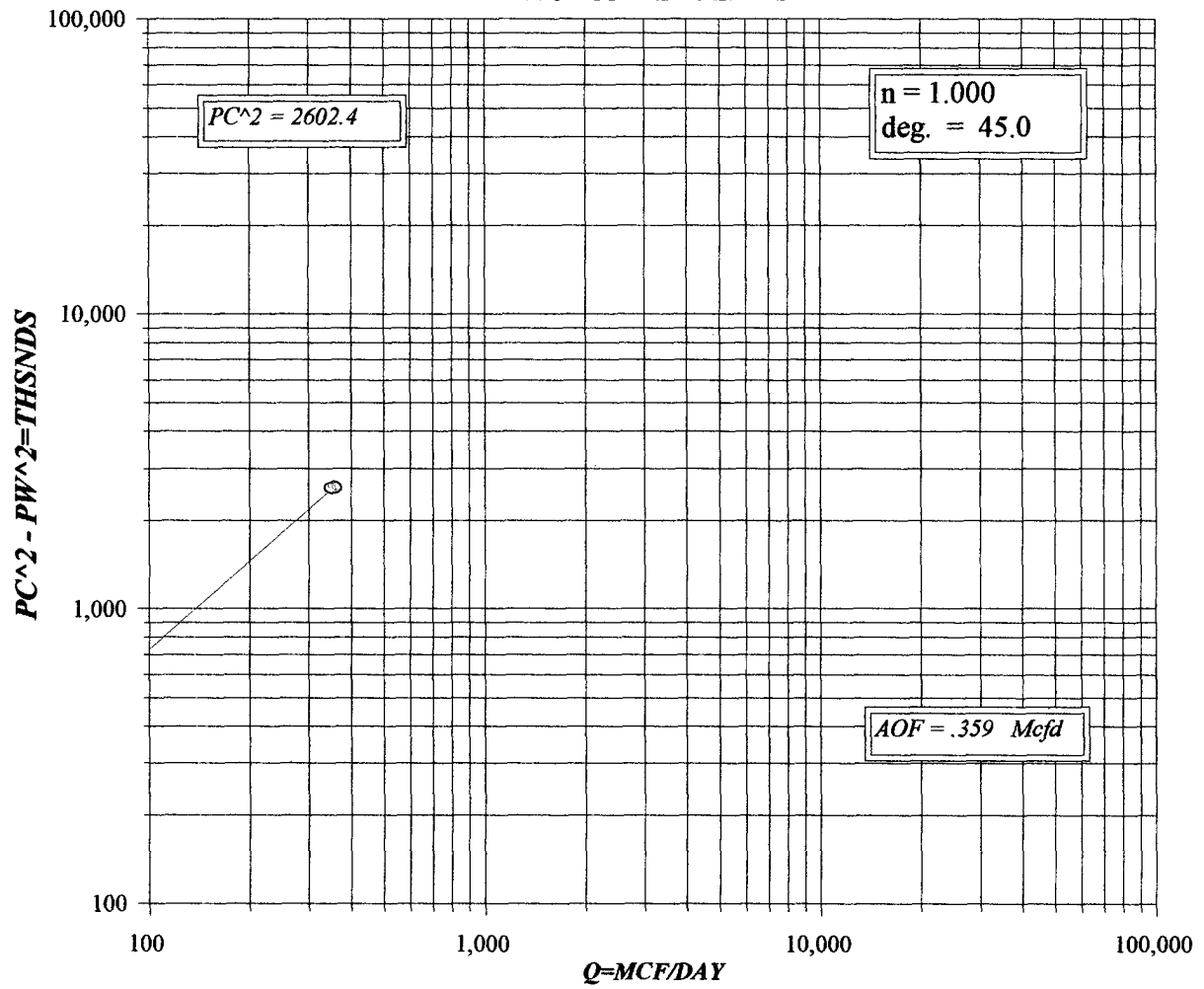
Form C-122
Revised October, 1999

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AUG 18 2005
OIL-ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL				Lease or Unit Name VICTORY 26 FED			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/11/2005	Well No. 1
Completion Date 5/7/2005		Total Depth 11670		Plug Back TD 11601		Elevation 3248	Unit Ltr - Sec - TWP - Rge A 26-20S-28E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11670	Perforations: From: 11422 To: 11498		County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.44	Set At 11001	Perforations: From: To:		Pool BURTON FLAT	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10961		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. 181	Mean Annual Temp. 60	Baro. Press. - P _a 13.2		Connection SALES	
L 11001	H 11001	Gg 0.606	%CO ₂ 0.909	%N ₂ 0.248	%H ₂ S 0	Prover N/A	Meter Run 3
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.
SI						1600	
1	3.0 X 1.000		138	15.4	77	134	
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}
1	7.77						
2							
3							
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 0.606 XXXXXXXX		
3	TOTAL	FLOW			Specific Gravity Flowing Fluid N/A XXXXXX		
4					Critical Pressure 675 P.S.I.A. N/A P.S.I.A.		
5					Critical Temperature 354 R. N/A R		
P _c 1613.2		P _{c2} 2602.4					
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.011}{0.359}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.011}{0.359}$		
1		165.3	27.3	2575.1			
2							
3							
4							
5							
Absolute Open Flow [0.359]				Mcf/d @ 15.025	Angle of Slope (°): 45	Slope, n: 1	
Remarks: 0 BO 13 BW							
Approved By Division:		Conducted By: MEWBOURNE		Calculated By: MERV BUECKER		Checked By: MB	

MEWBOURNE OIL
VICTORY 26 FED #1



COMPANY : MEWBOURNE OIL		LEASE : VICTORY 26 FED		WELL NO. : 1		Pc = 1613.2		Pc2 = 2602.4	
UNIT : A		SECTION : 26		TOWNSHIP : 20S		Pt2 = 21.7		Pw = 165.3	
L : 11001	H : 11001	U/H : 1	G/GMIX : 0.606	DATE : 5/11/05		0.0		#DIV/0!	
%CO2 : 0.909	%N2 : 0.248	H2S : 0.018183	GH : 8197.0	RANGE : 28E		0.0		#DIV/0!	
d : 1.995	Fr : 0.018183					0.0		#DIV/0!	
=====									
VOL 1 : 355	PSIA 1 : 147.2	RESV.TEMP : 196.0		Pc2-Pw2 = 2575.1		Pw2 = 27.3		#DIV/0!	
VOL 2 :	PSIA 2 :			#DIV/0!		#DIV/0!		#DIV/0!	
VOL 3 :	PSIA 3 :	SHUT-IN PRI = 1613.2		#DIV/0!		#DIV/0!		#DIV/0!	
VOL 4 :	PSIA 4 :			#DIV/0!		#DIV/0!		#DIV/0!	
PCR : 675		TCR : 354		n = 1.000					
				Pc2/(Pc2-Pw2) = 1.011					
LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1 QM	0.355	0.355	0.000	0.000	0.000	0.000	0.000	0.000	
2 TW	534	534	534	534	534	534	534	534	
3 Ts	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	[Pc2/Pc2-Pw2]n = 1.011
4 T	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	#DIV/0!
PR (est)	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#DIV/0!
5 Z(est)	0.981	0.958	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6 TZ	571.8	569.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
7 GH/TZ	14.336	14.386	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
8 eS	1.712	1.715	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
9 I-e-S	0.416	0.417	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 Pt	147.2	147.2	0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0!
11 Pt2/1000	21.7	21.7	0.0	0.0	0.0	0.0	0.0	0.0	
12 Fr	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	
13 Fc=FRIZ	10.397	10.361	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
14 FcQm	3.69	3.68	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
15 UH(FcQm)	13.6	13.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
16 Fw	5.664882	5.640272	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
17 Pw2	27.3	27.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
18 Ps2	46.8	46.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
19 Ps	216.3	216.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
20 P	181.8	181.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
21 Pr	0.27	0.27	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
22 Tr	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	
23 Z	0.958	0.958	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
FORM C122-D									