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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

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DEC 22 2004

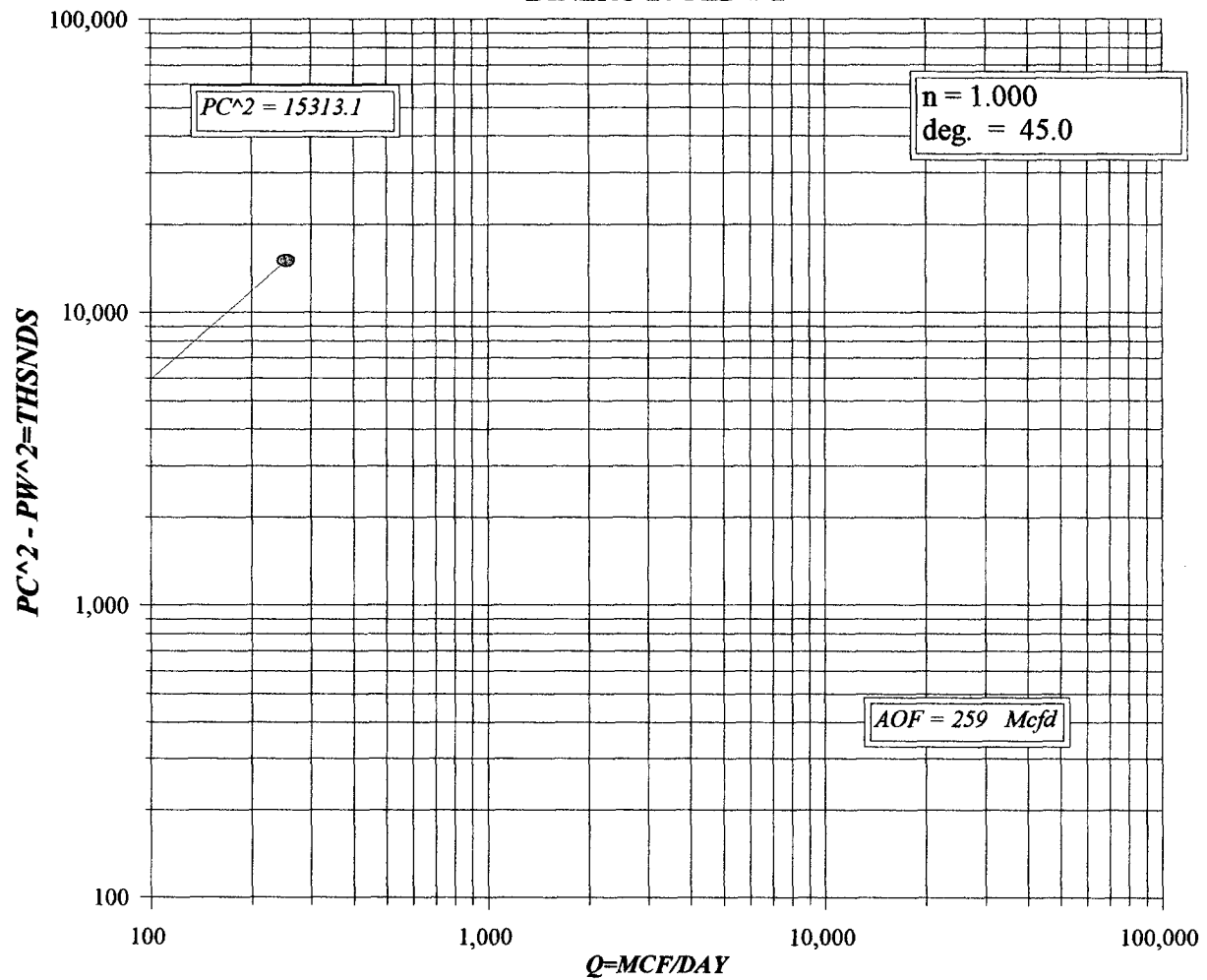
QUARTERIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

30-015-33512

Operator MEWBOURNE OIL				Lease or Unit Name DINERO 20 FED				
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12/7/2004	Well No. 2	
Completion Date 9/11/2004		Total Depth 12530		Plug Back TD 12404		Elevation 3066 GL	Unit Ltr - Sec - TWP - Rge H 20 22S 28E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12530	Perforations: From: 12302 To: 12370		County EDDY		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11538	Perforations: From: To:		Pool DUBLIN RANCH		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11528		Formation MORROW		
Producing Thru TUBING		Reservoir Temp. 181		Mean Annual Temp. 60		Baro. Press.-P _a 13.2		
Connection SALES								
L 11538	H 11538	Gg 0.602	%CO ₂ 1.375	%N ₂ 5.185	%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.	Press p.s.i.g.	Temp.	
SI						3900	PKR	
1	3.067 X 1.000		529	3.06	73	700	"	
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								254
2								
3	TOTAL		FLOW	METER				
4								
5								
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY GAS Mcf bbl.			
1					A.P. I. Gravity of Liquid Hydrocarbons DRY Deg.			
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.602 XXXXXXXX			
3					Specific Gravity Flowing Fluid XXXXXX N/A			
4					Critical Pressure 666 P.S.I.A. N/A P.S.I.A.			
5					Critical Temperature 343 R N/A R			
P _c	3913.2	P _{c2}	15313.1					
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.019}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.019$			
1		530	280.9	15032.2				
2								
3								
4								
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.259$			
Absolute Open Flow		259		Mcf/d @ 15.025		Angle of Slope (°)		45
						Slope, n:		1.000
Remarks: NO LIQUID MADE DURING TEST.								
Approved By Division:		Conducted By: MEWBOURNE OIL		Calculated By: MERV BUECKER		Checked By: BM		

MEWBOURNE OIL
DINERO 20 FED # 2



COMPANY : MEWBOURNE OIL				LEASE : DINERO 20 FED		WELL NO. : 2		Pc = 3913.2		Pc2 = 15313.1	
UNIT : H		SECTION : 20		TOWNSHIP : 22S							
L : 11538		H : 11538		L/H : 1		G/GMIX : 0.602		Pt2 = 280.1		Pw = 530.0	
%CO2 : 1.315		%N2 : 5.185		H2S :		DATE : 12/7/04		0.0		#DIV/0!	
d : 2.441		Fr : 0.010763		GH : 6945.9		RANGE : 28E		0.0		#DIV/0!	
=====											
VOL 1 : 254		PSIA 1 : 529.2		RESV.TEMP : 189.4		Pc2-Pw2=		15032.2		Pw2 = 280.9	
VOL 2 :		PSIA 2 :		SHUT-IN PR = 3913.2		#DIV/0!		#DIV/0!		#DIV/0!	
VOL 3 :		PSIA 3 :				#DIV/0!		#DIV/0!		#DIV/0!	
VOL 4 :		PSIA 4 :				#DIV/0!		#DIV/0!		#DIV/0!	
PCR : 666								n = 1.000			
TCR : 343											
LINE		RATE 1		RATE 2		RATE 3		RATE 4		Pc2/(Pc2-Pw2) = 1.019	
		1ST		2ND		1ST		2ND		#DIV/0!	
										#DIV/0!	
										#DIV/0!	
1 QM		0.254		0.254		0.000		0.000		#DIV/0!	
2 TW		534		534		534		534		[Pc2/Pc2-Pw2]n = 1.019	
3 Ts		649.4		649.4		649.4		649.4		#DIV/0!	
4 T		591.7		591.7		591.7		591.7		#DIV/0!	
PR (est)		0.79		0.00		0.00		0.00		#DIV/0!	
5 Z(est)		0.929		0.923		#DIV/0!		#DIV/0!		#DIV/0!	
6 TZ		549.8		546.4		#DIV/0!		#DIV/0!		AOF= Q 0.259	
7 GH/TZ		12.633		12.712		#DIV/0!		#DIV/0!		#DIV/0!	
8 eS		1.606		1.611		#DIV/0!		#DIV/0!		#DIV/0!	
9 I-e-S		0.377		0.379		#DIV/0!		#DIV/0!		#DIV/0!	
10 Pt		529.2		529.2		0.0		0.0		#DIV/0!	
11 Pt2 /1000		280.1		280.1		0.0		0.0		#DIV/0!	
12 Fr		0.010763		0.010763		0.010763		0.010763		0.010763	
13 Fc=FrTZ		5.918		5.881		#DIV/0!		#DIV/0!		#DIV/0!	
14 FcQm		1.50		1.49		#DIV/0!		#DIV/0!		#DIV/0!	
15 L/H(FcQm)		2.3		2.2		#DIV/0!		#DIV/0!		#DIV/0!	
16 Fw		0.852487		0.846102		#DIV/0!		#DIV/0!		#DIV/0!	
17 Pw2		280.9		280.9		#DIV/0!		#DIV/0!		#DIV/0!	
18 Ps2		451.1		452.5		#DIV/0!		#DIV/0!		#DIV/0!	
19 Ps		671.7		672.6		#DIV/0!		#DIV/0!		#DIV/0!	
20 P		600.4		600.9		#DIV/0!		#DIV/0!		#DIV/0!	
21 Pr		0.90		0.90		#DIV/0!		#DIV/0!		#DIV/0!	
22 Tr		1.73		1.73		1.73		1.73		#DIV/0!	
23 Z		0.923		0.923		#DIV/0!		#DIV/0!		#DIV/0!	
=====											
FORM C122-D											