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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

RECEIVED
OCD ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <u>V.F. PETROLEUM CORP.</u>					Lease or Unit Name <u>MANNER 30 SEC COM.</u>				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date <u>2-15-01</u>		Well No. <u>1</u>		
Completion Date <u>12/28/00</u>		Total Depth <u>8,193'</u>		Plug Back TD <u>8,750</u>		Elevation <u>3,635</u>		Unit Ltr. - Sec. - TWP - Rge. <u>G 30 17-S 25-E</u>	
Csg. Size <u>5 1/2</u>	Wt. <u>17#</u>	d <u>4.842</u>	Set At	Perforations: From: <u>7588</u> To: <u>7598</u>			County <u>EL PASO</u>		
Tbg. Size <u>2 7/8</u>	Wt. <u>6.5</u>	d <u>2.441</u>	Set At <u>7478</u>	Perforations: From: To:			Pool <u>EAGLE CREEK</u> <u>ATOKA MORROW EAST</u>		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>SINGLE</u>				Packer Set At <u>PUMPING</u>			Formation <u>ATOKA</u>		
Producing Thru <u>886</u>		Reservoir Temp. °F <u>60</u>		Mean Annual Temp. °F <u>60</u>		Baro. Press - P _a <u>13.2</u>		Connection <u>AGAVE ENERGY COMPANY</u>	
L <u>7478</u>	H <u>7478</u>	Gg <u>678</u>	% CO ₂ <u>1.376</u>	% N ₂ <u>1.677</u>	% H ₂ S	Prover	Meter Run <u>2,067</u>	Taps <u>1-2-6</u>	

FLOW DATA					TUBING DATA			CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice 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					<u>74</u>			<u>520</u>		<u>48 H</u>
1.	<u>2 X 1.500</u>		<u>30</u>	<u>3.24</u>	<u>68</u>			<u>30</u>		<u>24</u>
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 Fg.	Super Compress. Factor, F _{pv} .	Rate of Flow Q, Mcfd
1.	<u>12.76</u>	<u>11.69</u>	<u>43.2</u>	<u>.9924</u>	<u>1.214</u>	<u>1.009</u>	<u>181</u>
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	<u>.06</u>	<u>528</u>	<u>137</u>	<u>.980</u>	<u>DRY GAS</u>	
2.					<u>DRY</u>	
3.						
4.						
5.						

NO.	P _r	P _w	P _w ²	P _c ² · P _w ²
1.		<u>45.1</u>	<u>2.0</u>	<u>282.3</u>
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.007}{1.007 - 2.0} = 1.007$

2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.007}{1.007 - 2.0} = 1.007$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 182$

Absolute Open Flow <u>182</u>	Mcf @ 15.025	Angle of Slope θ <u>45°</u>	Slope, n <u>1.000</u>
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Remarks: * = CORRECTED TO 1.376 % CO₂ & 1.677 % H₂S
WELL PRODUCED 11.2 BBLS N₂O

Approved By Division	Conducted By: <u>METERING & TESTING</u>	Calculated By: <u>BM</u>	Checked By: <u>BM</u>
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COMPANY : VP PETRO. CORP. LEASE : M. 30 Fee COM. WELL NO. : 1
 UNIT : SECTION TOWNSHIP :
 L : 7478 E : 7478 L/H : 1 G/GMIX : 0.678
 %CO2 : 1.376 %N2 : 1.677 H2S : DATE : 2-15-01
 d : Fr : 0.007742 GH : 5070.1 RANGE :

Pc = 533.2 Pc2 = 284.3
 Pt2 = 1.9 Pw = 45.1
 0.0 ERR
 0.0 ERR
 0.0 ERR

VOL 1 : 181 PSIA 1 : 43.2 RESV. TEMP 133.9
 VOL 2 : PSIA 2 :
 VOL 3 : PSIA 3 : SHUT-IN PR: 533.2
 VOL 4 : PSIA 4 :

Pc2-Pw2 = 282.3 Pw2 = 2.0
 ERR ERR
 ERR ERR
 ERR ERR

PCR : 672
 TCR : 381

n = 1.000

Pc2/(Pc2-Pw2) = 1.007
 ERR
 ERR
 ERR

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.181	0.181	0.000	0.000	0.000	0.000	0.000	0.000
2 TW	534	534	534	534	534	534	534	534
3 Ts	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9
4 T	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
PR (est)	0.06		0.00		0.00		0.00	
5 Z(est)	0.969	0.968	ERR	ERR	ERR	ERR	ERR	ERR
6 TZ	546.5	546.0	ERR	ERR	ERR	ERR	ERR	ERR
7 GH/TZ	9.278	9.286	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	1.416	1.417	ERR	ERR	ERR	ERR	ERR	ERR
9 l-e-S	0.294	0.294	ERR	ERR	ERR	ERR	ERR	ERR
0 Pt	43.2	43.2	0.0	0.0	0.0	0.0	0.0	0.0
1 Pt2 /1000	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
2 Fr	0.007742	0.007742	0.007742	0.007742	0.007742	0.007742	0.007742	0.007742
3 Pc=FrTZ	4.231	4.227	ERR	ERR	ERR	ERR	ERR	ERR
4 PcQm	0.77	0.77	ERR	ERR	ERR	ERR	ERR	ERR
5 L/H(PcQm)	0.6	0.6	ERR	ERR	ERR	ERR	ERR	ERR
6 Pw	0.172305	0.172141	ERR	ERR	ERR	ERR	ERR	ERR
7 Pw2	2.0	2.0	ERR	ERR	ERR	ERR	ERR	ERR
8 Ps2	2.9	2.9	ERR	ERR	ERR	ERR	ERR	ERR
9 Ps	53.7	53.7	ERR	ERR	ERR	ERR	ERR	ERR
0 P	48.5	48.5	ERR	ERR	ERR	ERR	ERR	ERR
1 Pr	0.07	0.07	ERR	ERR	ERR	ERR	ERR	ERR
2 Tr	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
3 Z	0.968	0.968	ERR	ERR	ERR	ERR	ERR	ERR

[Pc2/Pc2-Pw2]n = 1.007
 ERR
 ERR
 ERR

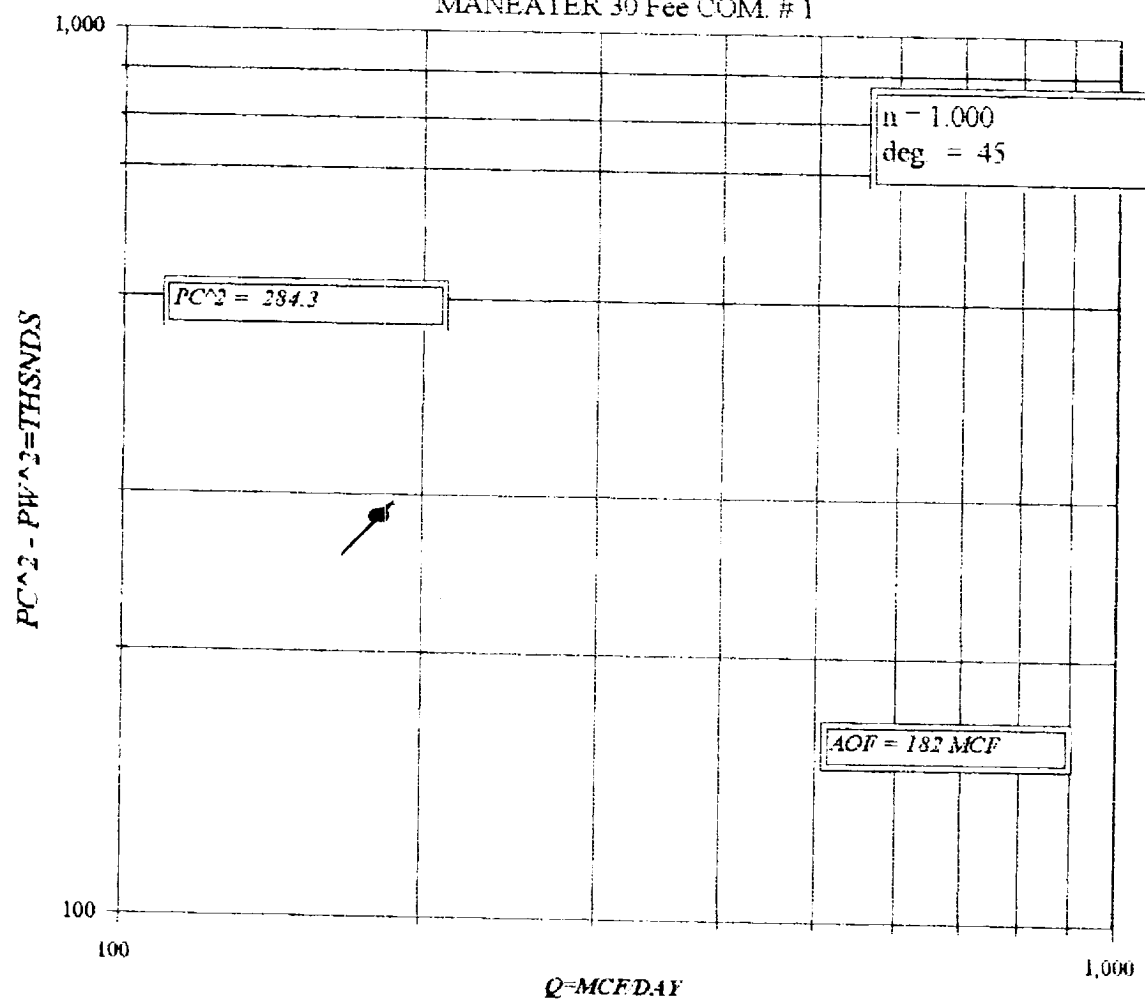
AOP= Q 0.182

ERR
 ERR
 ERR

FORM C122-D

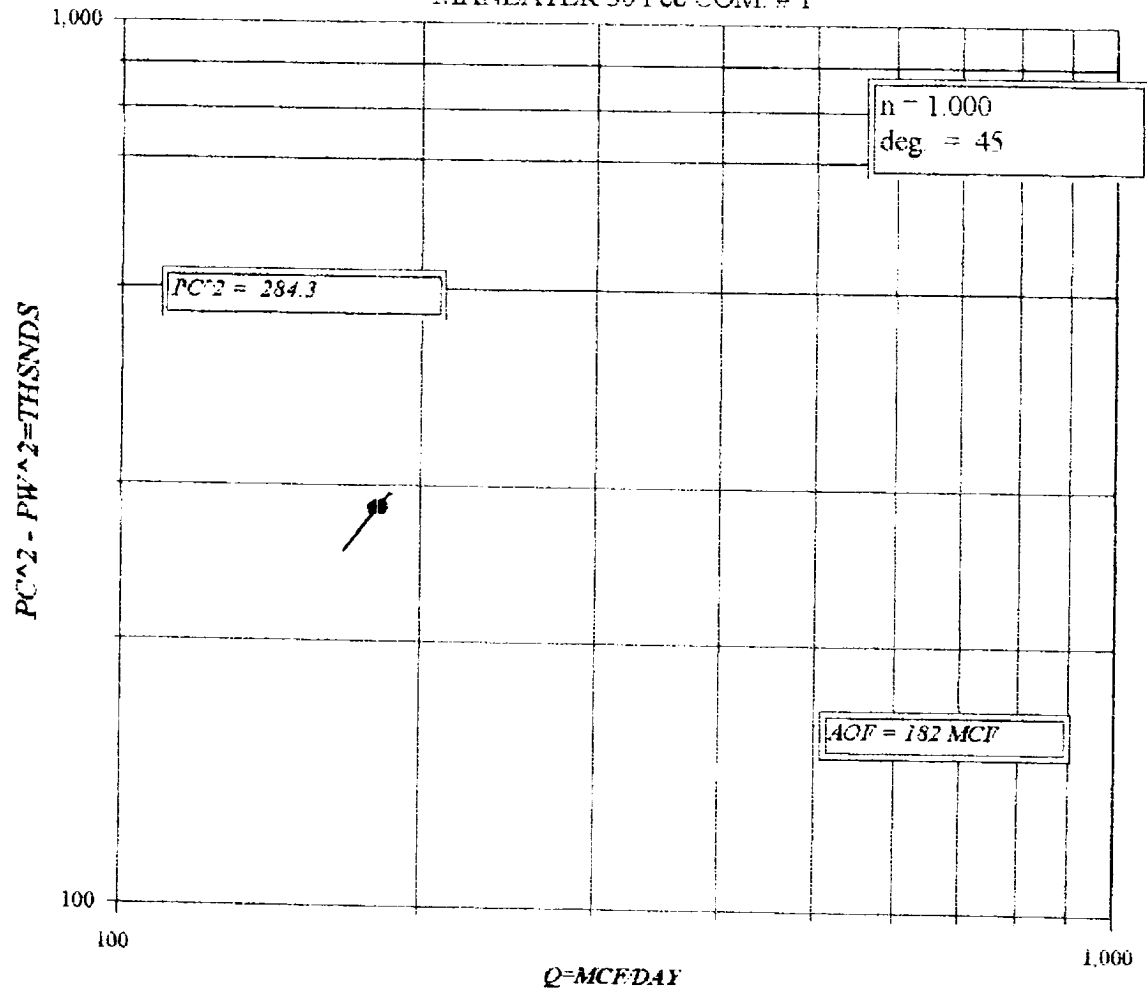
V.F. PETROLEUM CORP.

MANEATER 30 Fee COM. # 1



V.F. PETROLEUM CORP.

MANEATER 30 Fee COM. #1





Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Metering & Testing Services Inc.
Attention: Mr. Tom Duncan
2807 West County Road
Hobbs, New Mexico 88240

SAMPLE:
IDENTIFICATION: Maneater 30 Fee Com. #1
COMPANY: V-F Petroleum Inc.
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/13/01 5:00 pm
ANALYSIS DATE: 2/16/01
PRESSURE - PSIG 85
SAMPLE TEMP. °F
ATMOS. TEMP. °F 50

GAS (XX) LIQUID ()
SAMPLED BY: Shannon D. Johnson
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H ₂ S)		
Nitrogen (N ₂)	1.677	
Carbon Dioxide (CO ₂)	1.875	
Methane (C ₁)	85.810	
Ethane (C ₂)	6.581	1.756
Propane (C ₃)	2.740	0.753
I-Butane (IC ₄)	0.437	0.148
N-Butane (NC ₄)	0.886	0.279
I-Pentane (IC ₅)	0.281	0.109
N-Pentane (NC ₅)	0.261	0.094
Hexane Plus (C ₆ +) <u>0.452</u>		<u>0.196</u>
	100.000	8.824

BTU/CU.FT. - DRY 1133
AT 14.650 DRY 1130
AT 14.650 WET 1110
AT 14.73 DRY 1136
AT 14.73 WET 1116

MOLECULAR WT. 19.5239

SPECIFIC GRAVITY -
CALCULATED 0.678
MEASURED