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

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Form C-122
Revised October, 1999

30-015-33494

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator: MEWBOURNE OIL COMPANY						Lease or Unit Name: ESPERANZA 19 FED COM			
Type Test: ☑ Initial ☐ Annual ☐ Special						Test Date: 1/5/2005		Well No.: 2	
Completion Date: 10/3/2004		Total Depth: 11890' MD		Plug Back TD: 11838' MD		Elevation: 3190'		Unit Ltr - Sec - TWP - Rge: B 19 21S 27E	
Csg. Size: 5 1/2	Wt.: 17	d: 4.892	Set At: 11890'	Perforations: From: 11458 MD	To: 11552 MD			County: EDDY	
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.44	Set At: 11307	Perforations: From:	To:			Pool: BURTON FLAT	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 11266				Formation: MORROW	
Producing Thru: TUBING		Reservoir Temp.: 181		Mean Annual Temp.: 60		Baro. Press.-P_a: 13.2		Connection: SALES	

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
11307	11307	0.592	1.645	0.503	N/A	N/A	3"	FLG

	FLOW DATA				TUBING DATA		CASING DATA		
No.	Prover Line Size x Orifice 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	3.0 X 1.0				1100				
1	TOTAL FLOW	550.18	15.14	74	900				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	6.4						586
2		TOTAL	FLOW	METER			
3							
4							
5							

No.	P_r	Temp. R	T_r	Z
1				
2	TOTAL	FLOW		
3				
4				
5				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf bbl.
A.P. I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: 0.592 XXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 675 P.S.I.A. N/A P.S.I.A.
Critical Temperature: 350 R. N/A R

P_c 1113.2 P_c2 1239.2

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		915.5	838.1	401.1
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 3.089

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 3.089

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1.81

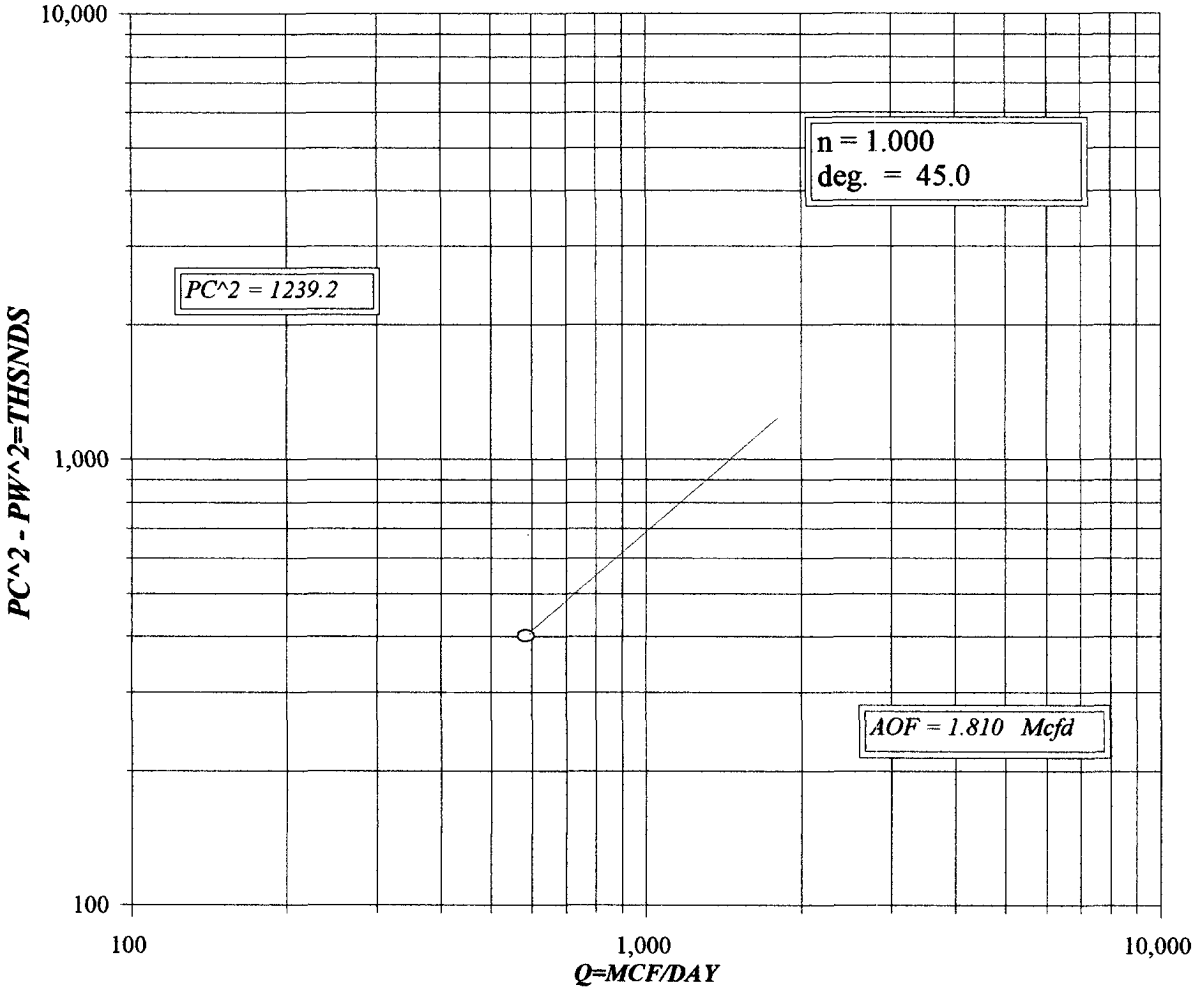
Absolute Open Flow: 1,810 Mcfd @ 15.025 | Angle of Slope (): 45 | Slope, n: 1

Remarks: * NO LIQUID MADE DURING TEST

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	MEWBOURNE OIL	PRO WELL TESINT	MB

MEWBOURNE OIL

ESPERANZA 19 FED Com #2



COMPANY :	MEWBOURNE OIL		LEASE :	ESPERANZA 19 FED	WELL NO. :	2			Pc =	1113.2	Pc2 =	1239.2
UNIT :	B		SECTION :	19	TOWNSHI :	21S						
L :	11307	H :	11307	L/H :	1	G/GMIX :	0.592		Pt2 =	833.9	Pw =	915.5
%CO2 :	1.645	%N2 :	0.509	H2S :			DATE :	1/5/05		0.0		#DIV/0!
d :	2.441	Fr :	0.010763	GH :	6693.7		RANGE :	27E		0.0		#DIV/0!
										0.0		#DIV/0!
VOL 1 :	586	PSIA 1 :	913.2			RESV.TEMP	187.1		Pc2-Pw2=	401.1	Pw2 =	838.1
VOL 2 :		PSIA 2 :								#DIV/0!		#DIV/0!
VOL 3 :		PSIA 3 :				SHUT-IN PRI =	1113.2			#DIV/0!		#DIV/0!
VOL 4 :		PSIA 4 :								#DIV/0!		#DIV/0!
			PCR :	675						n =	1.000	
			TCR :	350								
									Pc2/(Pc2-Pw2) =		3.089	
											#DIV/0!	
											#DIV/0!	

LINE	RATE 1		RATE 2		RATE 3		RATE 4				
	`1ST	`2ND	`1ST	``2ND	`1ST	`2ND	`1ST	`2ND			#DIV/0!
1 QM	0.586	0.586	0.000	0.000	0.000	0.000	0.000	0.000			
2 TW	534	534	534	534	534	534	534	534	[Pc2/Pc2-Pw2]n =		3.089
3 Ts	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1			#DIV/0!
4 T	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5			#DIV/0!
PR (est)	1.35		0.00		0.00		0.00				#DIV/0!
5 Z(est)	0.895	0.886	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
6 TZ	528.3	523.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		AOF= Q	1.810
7 GH/TZ	12.671	12.800	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!
8 eS	1.608	1.616	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!
9 I-e-S	0.378	0.381	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!
10 Pt	913.2	913.2	0.0	0.0	0.0	0.0	0.0	0.0			
11 Pt2 /1000	833.9	833.9	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	0.0107631			
13 Fc=FrTZ	5.686	5.629	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
14 FcQm	3.33	3.30	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
15 L/H(FcQm)2	11.1	10.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
16 Fw	4.198849	4.147301	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
17 Pw2	838.1	838.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
18 Ps2	1347.9	1354.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
19 Ps	1161.0	1163.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
20 P	1037.1	1038.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
21 Pr	1.54	1.54	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
22 Tr	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69			
23 Z	0.886	0.885	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			FORM C122-D