

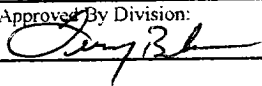
Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

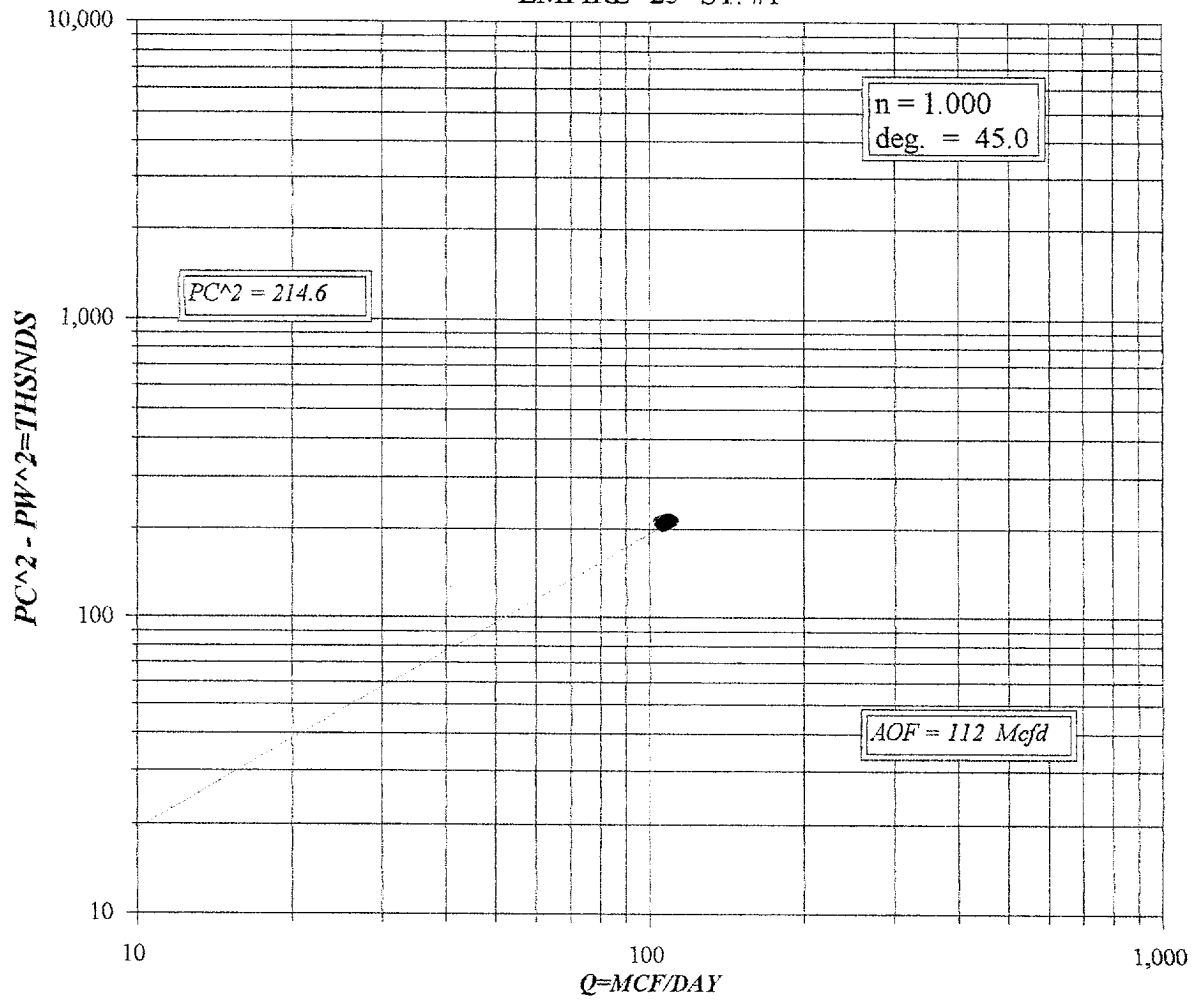
Form C-122
Revised October, 1999

C15P

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL CO.					Lease or Unit Name EMPIRE "25" ST.					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1/15/01		Well No. 1			
Completion Date 7/15/00		Total Depth 10,850'		Plug Back TD 10,756'		Elevation 3,682'		Unit Ltr - Sec - TWP - Rge G-25-17S-28E		
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 10,850'	Perforations: From: 10267 To: 10560			County EDDY			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10246	Perforations: From: To:			Pool South Empire Morrow			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10246			Formation			
Producing Thru TUBING		Reservoir Temp. °F 176.5		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES		
L 10246	H 10246	Gg 0.7	%CO ₂ 1.117	%N ₂ 1.511	%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	Duration of Flow
SI						450	N/A	PKR	N/A	
1	3.067 X .750		260	4	62	40				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 F _t	Gravity Factor F _g	Super Compress Factor F _{pv}		Rate of Flow Q, Mcfd	
1									110	
2	GAS		VOLUMES	FROM	TOTAL	FLOW	METER			
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			Deg.		
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas			0.7 XXXXXXXX		
3					Specific Gravity Flowing Fluid			N/A XXXXXX		
4					Critical Pressure			670 P.S.I.A. P.S.I.A.		
5					Critical Temperature			387 R. R.		
P _c 463.2 P _{c2} 214.6										
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.016}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.016$					
1	2.8	57.6	3.3	211.2	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 112$					
2										
3										
4										
5										
Absolute Open Flow 112					Mcf/d @ 15.025		Angle of Slope (°): 45		Slope n: 1	
Remarks: * WELL ON COMPRESSOR / NO LIQUID MADE DURING TEST.										
Approved By Division: 				Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM		

MEWBOURNE OIL CO.
EMPIRE "25" ST. #1



UNIT : L : 10246 H : 10246 L/H : 1 G/GMIX : 0.700
 %CO2 : 1.117 %N2 : 1.511 H2S : DATE : 1/15/01
 d : 1.995 Pr : 0.018231 GH : 7172.2 RANGE :

VOL 1 : 110 PSIA 1 : 53.2 RESV.TEMP 176.5
 VOL 2 : PSIA 2 :
 VOL 3 : PSIA 3 : SHUT-IN PR= 463.2
 VOL 4 : PSIA 4 :

PCR : 670
 TCR : 387

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.110	0.110	0.000	0.000	0.000	0.000	0.000	0.000
2 TW	534	534	534	534	534	534	534	534
3 Ts	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
4 T	585.2	585.2	585.2	585.2	585.2	585.2	585.2	585.2
PR (est)	0.08		0.00		0.00		0.00	
5 Z(est)	0.968	0.967	ERR	ERR	ERR	ERR	ERR	ERR
6 TZ	566.5	565.7	ERR	ERR	ERR	ERR	ERR	ERR
7 GH/TZ	12.661	12.679	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	1.608	1.609	ERR	ERR	ERR	ERR	ERR	ERR
9 l-e-S	0.378	0.378	ERR	ERR	ERR	ERR	ERR	ERR
10 Pt	53.2	53.2	0.0	0.0	0.0	0.0	0.0	0.0
11 Pt2 /1000	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231
13 Fc=FrTZ	10.328	10.313	ERR	ERR	ERR	ERR	ERR	ERR
14 FcQm	1.14	1.13	ERR	ERR	ERR	ERR	ERR	ERR
15 L/H(FcQm)	1.3	1.3	ERR	ERR	ERR	ERR	ERR	ERR
16 Fw	0.487825	0.486965	ERR	ERR	ERR	ERR	ERR	ERR
17 Pw2	3.3	3.3	ERR	ERR	ERR	ERR	ERR	ERR
18 Ps2	5.3	5.3	ERR	ERR	ERR	ERR	ERR	ERR
19 Ps	73.0	73.1	ERR	ERR	ERR	ERR	ERR	ERR
20 P	63.1	63.1	ERR	ERR	ERR	ERR	ERR	ERR
21 Pr	0.09	0.09	ERR	ERR	ERR	ERR	ERR	ERR
22 Tr	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
23 Z	0.967	0.967	ERR	ERR	ERR	ERR	ERR	ERR

Pt2 = 0.0 Pw = 57.6
 0.0 ERR
 0.0 ERR
 0.0 ERR
 Pc2-Pw2= 211.2 Pw2 = 3.3
 ERR ERR
 ERR ERR
 ERR ERR
 n = 1.000
 Pc2/(Pc2-Pw2) = 1.016
 ERR
 ERR
 ERR
 [Pc2/Pc2-Pw2]n = 1.016
 ERR
 ERR
 ERR
 AOP= Q 0.112
 ERR
 ERR
 ERR

FORM C122-D