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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

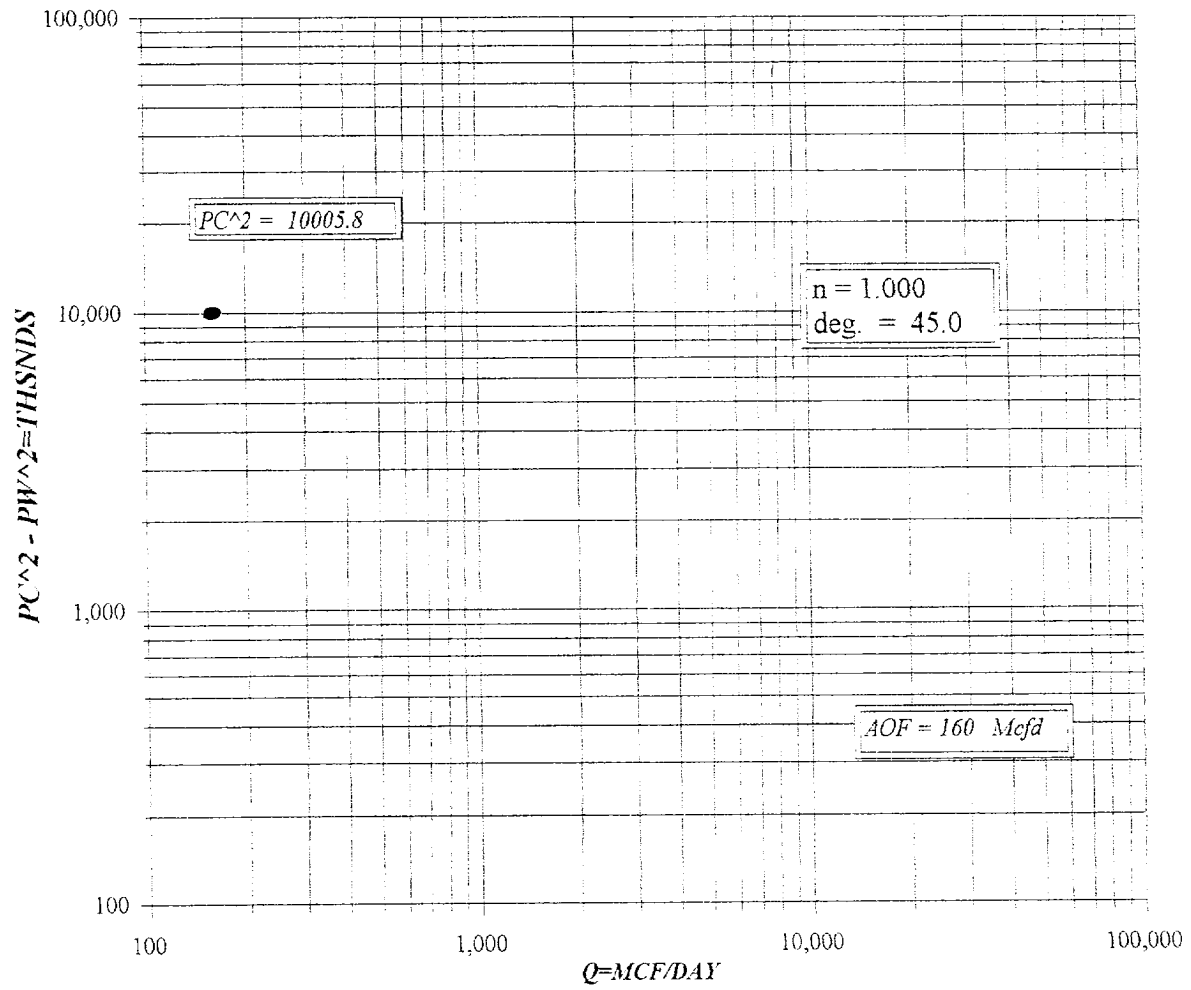
Form C-122
Revised October, 1999

CISF

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL CO.				Lease or Unit Name EMPIRE "7" FED			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1/15/01	Well No. 1
Completion Date 5/28/00		Total Depth 10,758'		Plug Back TD 10,658'		Elevation 3682'	Unit Ltr - Sec - TWP - Rge N-7-17S-29E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 10,758'	Perforations: From: 10446 To: 10470			County EDDY
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10174	Perforations: From: To:			Pool South Empire Morrow
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10174		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. °F 175.7	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2		Connection SALES	
L 10174	H 10174	Gg 0.537	%CO ₂ 0.737	%N ₂ 0.901	%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
1							
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							160
2	GAS	VOLUMES	FROM	TOTAL	FLOW	METER	
3							
4							
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 80 Mcf/bbl.		
1					A.P.I. Gravity of Liquid Hydrocarbons 52 Deg.		
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 687 / G.MEX = .725 XXXXXXX		
3					Specific Gravity Flowing Fluid N/A XXXXX		
4					Critical Pressure 672 P.S.I.A. 671 P.S.I.A.		
5					Critical Temperature 381 R. 394 R.		
P _c 3163.2		P _{c2} 10005.8					
No.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1}{1}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1}{1}$		
1	1.9	54	2.9	10002.9			
2							
3							
4							
5							
Absolute Open Flow 160 Mcfd @ 15.025				Angle of Slope (°): 45		Slope n: 1	
Remarks: * WELL MADE 2 BBLS OF 52 API GRAVITY CONDENSATE DURING TEST.							
Approved By Division: <i>[Signature]</i>		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

MEWBOURNE OIL CO.
EMPIRE "7" FED #1



UNIT : SECTION : TOWNSHIP :
 L : 10174 H : 10174 L 1 G/GMIX : 0.725
 %CO2 : 0.737 %N2 : 0.901 H2S : DATE : 1/15/01
 d : 1.995 Fr : 0.018231 GH : 7376.1 RANGE :

VOL 1 : 160 PSIA 1 : 43.2 RESV. TEMP 175.7
 VOL 2 : PSIA 2 :
 VOL 3 : PSIA 3 : SHUT-IN PR= 3163.2
 VOL 4 : PSIA 4 :

PCR : 671
 TCR : 394

LINE		RATE 1		RATE 2		RATE 3		RATE 4	
		1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1	Qm	0.160	0.160	0.000	0.000	0.000	0.000	0.000	0.000
2	Tw	534	534	534	534	534	534	534	534
3	Ts	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7
4	T	584.9	584.9	584.9	584.9	584.9	584.9	584.9	584.9
	PR (est)	0.06		0.00		0.00		0.00	
5	Z(est)	0.969	0.967	ERR	ERR	ERR	ERR	ERR	ERR
6	TZ	566.8	565.6	ERR	ERR	ERR	ERR	ERR	ERR
7	GH/TZ	13.015	13.041	ERR	ERR	ERR	ERR	ERR	ERR
8	eS	1.629	1.631	ERR	ERR	ERR	ERR	ERR	ERR
9	1-e-S	0.386	0.387	ERR	ERR	ERR	ERR	ERR	ERR
10	Pt	43.2	43.2	0.0	0.0	0.0	0.0	0.0	0.0
11	Pt2 /1000	1.9	1.9	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	10.333	10.312	ERR	ERR	ERR	ERR	ERR	ERR
14	FcQm	1.65	1.65	ERR	ERR	ERR	ERR	ERR	ERR
15	L/H(FcQm)	2.7	2.7	ERR	ERR	ERR	ERR	ERR	ERR
16	Pw	1.055473	1.052897	ERR	ERR	ERR	ERR	ERR	ERR
17	Pw2	2.9	2.9	ERR	ERR	ERR	ERR	ERR	ERR
18	Ps2	4.8	4.8	ERR	ERR	ERR	ERR	ERR	ERR
19	Ps	69.0	69.0	ERR	ERR	ERR	ERR	ERR	ERR
20	P	56.1	56.1	ERR	ERR	ERR	ERR	ERR	ERR
21	Pr	0.08	0.08	ERR	ERR	ERR	ERR	ERR	ERR
22	Tr	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
23	Z	0.967	0.967	ERR	ERR	ERR	ERR	ERR	ERR

Pt2 = ? Pw = 54.0
 0.0 ERR
 0.0 ERR
 0.0 ERR
 Pc2-Pw2= ***** Pw2 = 2.9
 ERR ERR
 ERR ERR
 ERR ERR
 n = 1.000
 Pc2/(Pc2-Pw2) = 1.000
 ERR
 ERR
 ERR
 [Pc2/Pc2-Pw2]n = 1.000
 ERR
 ERR
 ERR

AOX= Q 0.160
 ERR
 ERR
 ERR

FORM C122-D