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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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator BELLWETHAR EXPLORATION CO.				Lease or Unit Name CHAPS 12 ST. COM.			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10 15 00		Well No. 1	
Completion Date 9/1/00		Total Depth 11768		Plug Back ID 11448'		Elevation 3394 GL	
Csg. Size 5.5		Wt. 17		Set At 11768		Perforations: From: 11386 To: 11394	
Tbg. Size 2 7/8		Wt. 6.5		Set At 11381		Perforations: From: To:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11311		Formation MORROW SANDS	
Producing Thru		Reservoir Temp. °F 186		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 11287		H 11287		Gg 0.666		%CO ₂ 1.88	
				%N ₂ 0.801		%H ₂ S	
				Prover		Meter Run 3"	
						Taps	
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff h _w	Temp. °F	Press p.s.i.g.	Temp. °F
1	3 X 1.000		250		76	2600	PKR
2						600	
3							
4							
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Super Compress Factor F _{ps}	Rate of Flow Q Mcfd
1							1126
2					METER	TOTAL	FLOW
3							
4							
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 48.957 Mcf/bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons 59.0 @ 60 Deg.		
2		N/A			Specific Gravity Separator Gas 0.666 XXXXXXXX		
3					Specific Gravity Flowing Fluid XXXXXX GMIX .724		
4					Critical Pressure 672 P.S.I.A. 672 P.S.I.A.		
5					Critical Temperature 377 R. 397 R.		
P _c 2613.2 P _w 6828.8							
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.061}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.061$		
1		627.2	393.4	6435.4			
2							
3							
4							
5							
Absolute Open Flow 1.195 Mcfd @ 15.025				Angle of Slope (°): 45 Slope m: 1			
Remarks: well prod. 23 bbls 59 api gr. & 31 bbls H2O							
Approved By Division:		Conducted By: Pro Well Testing & Wireline		Calculated By: BM		Checked By: BM	

0 COMPANY : BELLWETHER EXPL. CO. LEASE : CHAPS 12 ST. COM WELL NO. : 1
UNIT : SECTION : 12 TOWNSHIP : 19
L : 11287 H : 11287 L/H : 1 G/GMIX : 0.724
%CO2 : 1.889 %N2 : 0.801 H2S : DATE : 10 15 00
d : 2.441 Fr : 0.010763 GH : 8171.8 RANGE : 29

Pc = 2613.2 Pc2 = 6828.8
Pt2 = 376.0 Pw = 627.2
0.0
0.0
0.0

VOL 1 : 1126 PSIA 1 : 613.2 RESV. TEMP 186.9
VOL 2 : PSIA 2 :
VOL 3 : PSIA 3 : SHUT-IN PR= 2613.2
VOL 4 : PSIA 4 :

PCR : 672
TCR : 397

Pc2-Pw2= 6435.4 Pw2 = 393.4
ERR
ERR
ERR

n = 1.000

Pc2/(Pc2-Pw2) = 1.061
ERR
ERR
ERR

LINE		RATE 1		RATE 2		RATE 3		RATE 4		
		1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1	QM	1.126	1.126	0.000	0.000	0.000	0.000	0.000	0.000	
2	TW	534	534	534	534	534	534	534	534	
3	Ts	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9	
4	T	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	
	PR (est)	0.91		0.00		0.00		0.00		
5	Z(est)	0.886	0.870	ERR	ERR	ERR	ERR	ERR	ERR	
6	TZ	523.0	513.6	ERR	ERR	ERR	ERR	ERR	ERR	
7	GH/TZ	15.625	15.911	ERR	ERR	ERR	ERR	ERR	ERR	
8	eS	1.797	1.816	ERR	ERR	ERR	ERR	ERR	ERR	
9	l-e-S	0.443	0.449	ERR	ERR	ERR	ERR	ERR	ERR	
10	Pt	613.2	613.2	0.0	0.0	0.0	0.0	0.0	0.0	
11	Pt2 /1000	376.0	376.0	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	0.010763	
13	Fc=FrTZ	5.629	5.528	ERR	ERR	ERR	ERR	ERR	ERR	
14	FcQm	6.34	6.22	ERR	ERR	ERR	ERR	ERR	ERR	
15	L/H(FcQm)	40.2	38.7	ERR	ERR	ERR	ERR	ERR	ERR	
16	Fw	17.81386	17.40914	ERR	ERR	ERR	ERR	ERR	ERR	
17	Pw2	393.8	393.4	ERR	ERR	ERR	ERR	ERR	ERR	
18	Ps2	707.6	714.5	ERR	ERR	ERR	ERR	ERR	ERR	
19	Ps	841.2	845.3	ERR	ERR	ERR	ERR	ERR	ERR	
20	P	727.2	729.2	ERR	ERR	ERR	ERR	ERR	ERR	
21	Pr	1.08	1.09	ERR	ERR	ERR	ERR	ERR	ERR	
22	Tr	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	
23	Z	0.870	0.870	ERR	ERR	ERR	ERR	ERR	ERR	

[Pc2/Pc2-Pw2]n = 1.061
ERR
ERR
ERR

AOF= Q 1.195
ERR
ERR
ERR

FORM C122-D

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NEW MEXICO G.O.R./G. MIX

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NO. OF BBLs PRODUCED = 23.0

API GRAVITY @ 60 DEG. = 59.0

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SPECIFIC GRAVITY OF GAS = 0.6660

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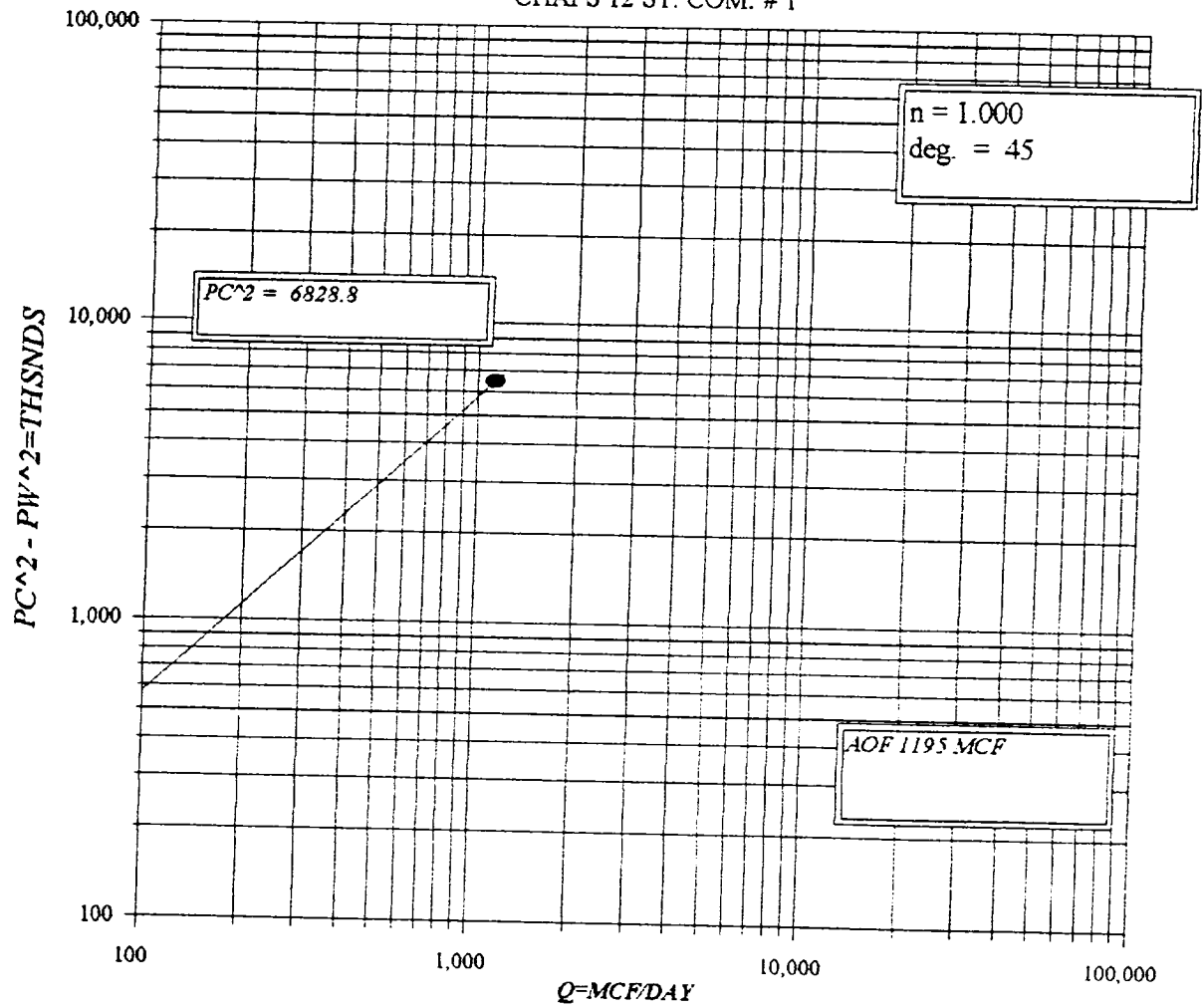
TOTAL GAS PRODUCED = 1126

G.O.R. = 48.957

G.MIX = 0.724

BELLWETHAR EXPLORATION CO.

CHAPS 12 ST. COM. # 1



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