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appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Dep. ment

Form C-122
Revised 4-1-91

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Cobra Oil & Gas Corporation						Lease or Unit Name State 19					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1/8/98		Well No. 1			
Completion Date		Total Depth 15,966		Plug Back TD 14,396		Elevation 3541 Gr		Unit Ltr. - Sec. - TWP - Rge. G 19- 24S-33E			
Csg. Size 7-5/8	Wt. 44#	d 6.435	Set At 15,550'	Perforations: From: 14,360 To: 14,372'				County Lea			
Tbg. Size 2-7/8	Wt. 7.9#	d 2.441	Set At 14309	Perforations: From: To:				Pool East Triste Draw			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 14,295'				Formation Atoka			
Producing Thru Tubing		Reservoir Temp. °F 206.7		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection Highlands Gathering			
L 14309	H 14309	Gg .65	% CO ₂ --	% N ₂ ----	% H ₂ S --	Prover 0	Meter Run 4.026	Taps F/G			

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
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.	
SI						2100		2900	
1.	4.026 x	1.250	700	8	78	700	80	2900	78
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.	7.483	75.54	713.2	.9831	1.24	1.067	735
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 368/1 Mcf/bbl.
1.	1.064	540	1.43	.878	A.P. I. Gravity of Liquid Hydrocarbons 55 Deg.
2.					Specific Gravity Separator Gas XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXXX
4.					Critical Pressure 670 P.S.I.A. P.S.I.A.
5.					Critical Temperature 375 R R

p_c **2113.2** p_c² **4465.6**

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = -1.111$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.111$
1.	508.7	2913.2	8486.7	-4021.1		
2.						
3.						
4.						
5.						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 816.6$

Absolute Open Flow 816.6 Mcfd @ 15.025	Angle of Slope Θ 45°	Slope, n 1.00
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Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
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Handwritten signature/initials