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appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator CONOCO, INC.					Lease or Unit Name STATE J-2				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-4-94		Well No. 14		
Completion Date 3-31-94		Total Depth 3700		Plug Back TD 3654'		Elevation		Unit Ltr. - Sec. - TWP - Rge. R 2-22S-36E	
Csg. Size 5 1/2	Wt. 15.5	d 4.950	Set At 3700	Perforations: From: 3445 To: 3597		Country LEA			
Tbg. Size 2 3/8	Wt. 4.6	d 1.995	Set At 3511	Perforations: From: To:		Pool Queen			
Type Well - Single - Bradenhead - G.G. or L.O. Multiple GGD				Packer Set At 3314		Formation QUEEN-PENROSE			
Producing Thru TBG		Reservoir Temp. °F 90		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection AIR	
L *3500	H 3500	Gg .715	% CO ₂ 6.03	% N ₂ .79	% H ₂ S	Prover	Meter Run 2.067	Taps FLG	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI									
1.	2.067 X 1.500	50	3	60	283				
2.	2.067 X 1.500	50	5	60	268			Pr.	1 hr.
3.	2.067 X 1.500	50	4	60	185				1 hr.
4.	2.067 X 1.500	50	5	60	96				1 hr.
5.					54				1 hr.

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.76	13.77	63.2	1.000	1.183	1.007	209
2.	12.76	17.78	63.2	1.000	1.183	1.007	270
3.	12.76	15.90	63.2	1.000	1.183	1.007	242
4.	12.76	17.78	63.2	1.000	1.183	1.007	270
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1.	.09	520	1.35	.987	A.P. I. Gravity of Liquid Hydrocarbons	Deg.
2.	.09	520	1.35	.987	Specific Gravity Separator Gas	.715
3.	.09	520	1.35	.987	Specific Gravity Flowing Fluid	XXXXXX
4.	.09	520	1.35	.987	Critical Pressure	693
5.					Critical Temperature	384

P_c **305.5** P_c² **93.33**

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		293.0	85.85	7.48
2.		285.4	81.45	11.88
3.		285.7	81.62	11.71
4.		282.3	79.69	13.64
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 12.48$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.54966$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 742$

Absolute Open Flow 742 Mcfd @ 15.025	Angle of Slope Θ 63.5	Slope, n .50194
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Remarks: *** BHP INST. SET HERE**

3 BBLs H₂O MADE DURING TEST

Approved By Division 	Conducted By:	Calculated By:	Checked By:
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