

Submit in duplicate to
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 8-22-95		Well No. 16	
Completion Date 7-13-95		Total Depth 3675		Plug Back TD 3650		Elevation 3537	
Csg. Size 4 1/2		Wt. 11.6		d 3.875		Set At 3675	
Tbg. Size 2-3/8		Wt. 4.7		d 1.995		Set At 3045	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		Formation QUEENS TRVRS	
Producing Thru TBG & CSG		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P 13.2	
L 3045		H 3045		G _g .723		% CO ₂ .43	
				% N ₂ 11.43		% H ₂ S	
				Prover		Meter Run	
						Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice 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
SI							150		145		24 hr.
1.							145		145		1 hr
2.							135		145		1 hr
3.							125		145		1 hr
4.							115		145		1 hr.
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.							256
2.							446
3.							558
4.							634
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					DRY GAS	
2.					A.P. I. Gravity of Liquid Hydrocarbons	Deg.
3.					Specific Gravity Separator Gas	.723
4.					Specific Gravity Flowing Fluid	XXXXXX
5.					Critical Pressure	*649
					Critical Temperature	*368

p _c 163.2		p _c ² 26.6			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1.		158.4	25.1	1.5	
2.		148.9	22.2	4.5	
3.		139.3	19.4	7.2	
4.		129.7	16.8	9.8	
5.					

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{17.258}{17.258 - 1.5} = 4.154$$

$$2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.154$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.064$$

Absolute Open Flow **1,064** Mcfd @ 15.025 Angle of Slope Θ **63.5** Slope, n **.500**

Remarks: ***= CORRECTED TO 11.43% N₂**

Approved By Division _____ Conducted By: **PRO WELL TESTERS** Calculated By: **BM** Checked By: **BM**

