

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 COOPER 8					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-17-95		Well No. 2			
Completion Date 8-1-95		Total Depth 3270		Plug Back TD 3220		Elevation		Unit Ltr. - Sec. - TWP - Rge. N 8-24S-37E			
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 3270	Perforations: From: 2859 To: 3121				County LEA			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3170	Perforations: From: To:				Pool			
Type Well - Single - Bradenhead - G.G. or F.O. Multiple single						Packer Set At none		Formation JALMAT			
Producing Thru CSG		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection SALES			
L 3170	H 3170	Gg .751	% CO ₂ 2.24	% N ₂ 1.58	% H ₂ S	Prover -0-	Meter Run 3.068	Taps FLG.			

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						62°	44	62°	24 hr.
1.	3.068 X 1.250	14.4	26.2	88			28		24 hr.
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	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.	7.577	26.89	27.6	.9741	1.154	1.004	230
2.							
3.							
4.							
5.							

VOLUME TAKEN FROM TOTAL FLOW METER							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRV GAS	Mcf/bbl.
1.	.04	548	1.46	.992	A.P. I. Gravity of Liquid Hydrocarbons	DRV	Deg.
2.					Specific Gravity Separator Gas	.751	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	*658	P.S.I.A.
5.					Critical Temperature	*402	R

P _c 57.2		P _c ² 3.3	
NO.	P _t ²	P _w	P _w ²
1.		42.5	1.8
2.			
3.			
4.			
5.			

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.233}{2.233 - 1.8} = 2.233$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .514$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.233}{2.233 - 1.8} = 2.233$

Absolute Open Flow 514 Mcfd @ 15.025	Angle of Slope Θ 45	Slope, n 1.000
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Remarks: **NO FLUID MADE DURING TEST.**

Approved By Division	Conducted By: PRO WELL TESTER	Calculated By: MB	Checked By: BM
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