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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						Lease or Unit Name STATE C-20					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date		Well No. 7			
Completion Date 7-1-93		Total Depth 3947		Plug Back TD 3750		Elevation		Unit Ltr. - Sec. - TWP - Rge. 20 21 36			
Csg. Size	Wt.	d	Set At	Perforations:				County			
5 1/2	17.3		3797	From: 3005 To: 3622				LEA			
Tbg. Size	Wt.	d	Set At	Perforations:				Pool			
2-3/8	4.7	1.995	3460	From: To:				EUMONT			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At 2955		Formation			
Producing Thru tbg		Reservoir Temp. °F 108.6 @3460		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection			
L 3460	H 3460	Gg .706	% CO ₂ 4.10	% N ₂ 1.48	% H ₂ S	Prover		Meter Run 3.068	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.		Temp. °F
SI						205		PKR.		28hr
1.	3 X 2.000		10.0	4.80	94	195		"		1hr
2.	3 X 2.000		10.0	12.70	91	185		"		"
3.	3 X 2.000		10.3	18.10	89	170		"		"
4.	3 X 2.000		10.7	20.70	87	148		"		"
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.	21.32	10.55	23.2	.9688	1.190	1.002	260
2.	21.32	17.17	23.2	.9715	1.190	1.003	425
3.	21.32	20.62	23.5	.9732	1.190	1.003	511
4.	21.32	22.24	23.9	.9750	1.190	1.003	552
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.	.03	554	1.45	.996	A.P. I. Gravity of Liquid Hydrocarbons	DRY	Deg.
2.	.03	551	1.44	.995	Specific Gravity Separator Gas	.706	XXXXXXXXXX
3.	.03	549	1.43	.995	Specific Gravity Flowing Fluid	XXXXXX	
4.	.03	547	1.43	.995	Critical Pressure	* 650	P.S.I.A. P.S.I.A.
5.					Critical Temperature	* 382	R R

P_c **218.2** P_c² **47.6**

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		210.5	44.3	3.3
2.		204.9	42.0	5.6
3.		193.6	37.5	10.1
4.		174.6	30.5	17.1
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{14.42}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{.985}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{3.788}$

Absolute Open Flow 985	Mcf/d @ 15.025	Angle of Slope θ 63.5	Slope, n .499
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Remarks: **NO FLUID PRODUCED DURING TEST**

*=CORRECTED TO 4.10% Co₂ & 1.48 % N₂

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