

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-29-85	
Company Amoco Production Company		Connection	
Pool Bravo Dome <u>Carbon Dioxide Gas</u>		Formation Tubb	
Completion Date 12/31/80		Total Depth 2648'	Plug Back TD 2603'
Csg. Size 5.5		Wt. 14	Elevation GL 4785
Tbg. Size 2-7/8		Wt. 6.5	Well No. 1934 191K
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2079'	Unit BDCDGU
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2333	Mean Annual Temp. °F 50
Baro. Press. - P _a 12.2		County Union	State New Mexico
L 2333	H 2333	G _g 1.529	% CO ₂ 100
% N ₂ 0		% H ₂ S 0	Prover Meter Run 4.0
Flange		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	
1.	4.026 x	2.500		217	24	55	316	50	
2.	4.026 x	2.500		236	18	56	229.2	50	24 hr
3.	4.026 x	2.500		259	12	57	248.2	50	24 hr
4.	4.026 x	2.500		291	7	58	271.2	50	24 hr
5.							303.2	50	24 hr

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.							2234
2.							2108
3.							1791
4.							1412

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	P.S.I.A.	P.S.I.A.
1.					0	0	1.529	X X X X X	1072	547		
2.												
3.												
4.												
5.												

NO.	P _t	P _w	P _c	P _c ² - P _w ²
1.		229.2	328.2	55.183
2.		248.2	107.7	46.112
3.		271.2		34.166
4.		303.2		15.785

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.952$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2861$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.280$

Absolute Open Flow	2861	Mcfd @ 15.025	Angle of Slope	Slope, n	.37
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Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		D. D. Kimble	