

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: 8-10-87	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome		Formation: Tubb	
Completion Date: 4-8-81		Total Depth: 2565	Plug Back TD: 2618
		Elevation: 4667	
Csg. Size: 5.50	Wt. 14#	d 5.012	Set At 2618
Perforations: From 2283 To 2324		Well No. 2035-181F	
Teg. Size: 2.375	Wt. 4.7#	d 1.995	Set At 2199
Perforations: From To		Unit Sec. Twp. Rge. F 18 20 35	
Type Well - Single - Brindenhead - G.G. or G.O. Multiple		Packer Set At 2199	County Union
Producing Thru Tubing	Reservoir Temp. °F 90	Mean Annual Temp. °F 50	Baro. Press. - P _g 12.25
State New Mexico			
L	H	G _g	% CO ₂ 100
			% N ₂ 0
			% H ₂ S 0
Prover		Meter Run 4.0	Taps Flange

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							272				24 hr.
1.	4.026 x 1.125			212	7	50	212	50	0		1 hr.
2.	4.026 x 1.125			187	12	54	187	54	0		1 hr.
3.	4.026 x 1.125			165	14	54	165	54	0		1 hr.
4.	4.026 x 1.125			140	16	55	140	55	0		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							197
2							244
3							250
4							254
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 0	Mcl/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	°Deg.
2.					Specific Gravity Separator Gas 1.529	X X X X X X X X
3.					Specific Gravity Flowing Fluid X X X X X	
4.					Critical Pressure 1072	P.S.I.A. P.S.I.A.
5.					Critical Temperature 496	R R

P _c 284.25	P _c ² 80798	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6482$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1057$
NO.	F ₁ ²	P _w	P _w ²
1		224.25	50288
2		199.25	39701
3		177.25	31418
4		152.25	23180
5			

Absolute Open Flow 415		Mcl/d @ 15.025	Angle of Slope @ 37.40	Slope, n 0.7646
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Remarks: Low production rates and small amounts of liquid production caused erratic plotting on log - log plot.

Approved by Commission:	Conducted By: RANDY MAHANNAH	Calculated By: RICHARD ROETH	Checked By:
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