

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 Unit 140 Acre Area</u>		Formation Tubb	
Completion Date 3/7/81		Total Depth 2711	Plug Back TD 2604
Csg. Size 5.5		Wt. 14	Elevation GL 4913
Thg. Size 2-7/8		Wt. 6.5	Perforations: From 2330 To 2560
Set At 2711		Set At 2176	
Well No. 1934 301C		Unit BDCDGU	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2146	County Union
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2445	Mean Annual Temp. °F 50
Baro. Press. - P _a 12.2		State New Mexico	
L 2445	H 2445	G _g 1.529	% CO ₂ 100
% N ₂ 0		% H ₂ S 0	Prover 4.0
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
1.	4.026 x	2.125		207	33	55	325	50			
2.	4.026 x	2.125		226	24	57	219.2	50			24 hr
3.	4.026 x	2.125		239	16	58	238.2	50			24 hr
4.	4.026 x	2.125		261	9	58	251.2	50			24 hr
5.							273.2	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.							1551
2.							1454
3.							1246
4.							986

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

P _c	317.2	P _c ²	100.6
NO.	P _r ²	P _w	P _w ²
1.	219.2		52.567
2.	238.2		43.877
3.	251.2		37.514
4.	273.2		25.978

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.914$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2350$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.515$

Absolute Open Flow	2350	Mcf/d @ 15.025	Angle of Slope α	Slope, n	.64
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Remarks:

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