

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 4-23-85	
Company Amoco Production Company		Connection	
Pool Bravo Dome Carbon Dioxide Unit - 640 acre area		Formation Tubb	
Completion Date 12-13-82		Total Depth 2666	
Csg. Size 5		Plug Back TD 2640	
Wt. 13		Elevation 4960	
Set At 2666		Well No. 1934 051J	
Perforations: From 2360 To 2580		Unit J	
Tbg. Size 3.5		Sec. 05	
Wt. 9.3		Twp. 19	
Set At 2307		Rge. 34	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2307	
Producing Thru Tubing		County Union	
Reservoir Temp. °F 90° @ 2470		State New Mexico	
Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2	
L 2470		Prover 4.0	
H 2470		Meter Run 4.0	
Gg 1.529		Taps Flange	
% CO ₂ 100			
% N ₂ 0			
% H ₂ S 0			

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.	
SI							307			
1.	4.026 x 2.00			202	47	56	214.2	50		
2.	4.026 x 2.00			231	29	61	243.2	50		24 hr.
3.	4.026 x 2.00			243	24	60	255.2	50		24 hr.
4.	4.026 x 2.00			267	12	62	279.2	50		24 hr.
5.										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							1665
2							1393
3							1299
4							974
5							

NO.	P _t	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	XXXXXX
4.					Critical Pressure	1072 P.S.I.A.
5.					Critical Temperature	547 °R

P _c	319.2	P _c ²	101.889
NO.	P _t ²	P _w	P _w ²
1		214.2	56.007
2		243.2	42.742
3		255.2	36.762
4		279.2	23.936
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.82$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2427$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.46$

Absolute Open Flow	2427	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .63
Remarks:				

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