

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 8-12-85			
Company Amoco Production Company				Connection					
Pool Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area				Formation Tubb				Unit BDCDGU	
Completion Date 8-18-81		Total Depth 2726		Plug Back TD 2678		Elevation 4844		Farm or Lease Name	
Csg. Size 5.5	Wt. 6.5	d 2726	Set At 2098	Perforations: From 2264 To 2442		Well No. 1934 331G			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2068		County Union		State New Mexico			
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2353		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2		Meter Run 4.0	
L 2353	H 2353	G _g 1.529	% CO ₂ 100	% N ₂ 0	% H ₂ S 0	Prover Flange		Taps 34	

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							321			
1.	4.026 x 2.00			175	95	58	175	50		
2.	4.026 x 2.00			190	75	58	190	50		24 hr
3.	4.026 x 2.00			210	62	58	210	50		24 hr
4.	4.026 x 2.00			231	43	59	231	50		24 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							2244
2							2132
3							1993
4							1754
5							

NO.	P _r	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
1.					0	0	1.529	X X X X X X X X	1072	547
2.										
3.										
4.										
5.										

P _c 333.2 P _c ² 111.022				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		187.2		75.978
2		202.2		70.137
3		222.2		61.649
4		243.2		51.876
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.46$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2871$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.28$$

Absolute Open Flow		2871	Mcfd @ 15.025	Angle of Slope θ	Slope, n	.65
Remarks:						
Approved By Commission:						
Conducted By:		Calculated By:		Checked By:		