

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: 5-24-85			
Company: Amoco Production Company				Connection:					
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area				Formation: Tubb				Unit: BDCDGU	
Completion Date: 12-8-83		Total Depth: 2958'		Plug Back TD: 2840'		Elevation: 4743'		Farm or Lease Name:	
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2958	Perforations: From 2467' To 2580'		Well No.: 1834 231G			
Thq. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2307'	Perforations: From To		Unit Sec. Twp. Rge.: G 23 18 34			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: 2356'		County: Union	
Producing Thru Tubing		Reservoir Temp. °F: 91° @ 2523'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2523'	H: 2523'	G _g : 1.529	% 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							366				
1.	4.026 x 2.75			212	46	54	224.2	50			24 hrs
2.	4.026 x 2.75			224	40	55	236.2	50			24 hrs
3.	4.026 x 2.75			254	25	57	266.2	50			24 hrs
4.	4.026 x 2.75			280	10	59	292.2	50			24 hrs
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							3482
2							3314
3							2830
4							2364
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	0 Mcf/bbl.	
1					A.P.I. Gravity of Liquid Hydrocarbons	0 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.
5					Critical Temperature	547	R

P _c	378.2	P _c ²	143.035
NO.	P _r	P _w	P _w ²
1		224.2	92.770
2		236.2	87.295
3		266.2	72.713
4		292.2	57.654
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.5$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4945$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.42$$

Absolute Open Flow	4945	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.81
Remarks:					
Approved By Commission:		Conducted By:		Calculated By: D. D. Kimble	
				Checked By:	

1834 2316

46 7200

LOGARITHMIC 2 x 2 CYCLES
KEUFFEL & ESSLER CO. MADE IN U.S.A.

AOE = 4945

P_1^2, P_2^2

$Q = MCF$

