

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: 5-30-85				
Company: Amoco Production Company				Connection:					
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area				Formation: Tubb				Unit: BDCDGI	
Completion Date: 1-26-84		Total Depth: 2615'		Plug Back TD: 2183'		Elevation: 4505 GL		Farm or Lease Name:	
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2615'	Perforations: From 2406' To 2206'		Well No.: 1934 351G			
Tbg. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2122'	Perforations: From To		Unit Sec. Twp. Rye. G 35 19 35			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At: 2092'		County: Union		
Producing Thru Tubing		Reservoir Temp. °F: 90°@ 2126'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2126'	H: 2126'	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							313				
1.	4.026 x 2.75			211	64	55	223.2	50			24 hrs
2.	4.026 x 2.75			230	48	56	242.2	50			24 hrs
3.	4.026 x 2.75			257	29	58	269.2	50			24 hrs
4.	4.026 x 2.75			283	14	59	295.2	50			24 hrs
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							4071
2							3678
3							3030
4							2264
5							

NO.	P _t	Temp. °R	T _f	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	325.2	P _c ²	105.755
NO.	P _t ²	P _w	P _w ²
1		223.2	55.937
2		242.2	47.094
3		269.2	33.286
4		295.2	18.612
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.89$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5705$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.40$$

Absolute Open Flow	5705	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.53
Remarks:					
Approved By Commission:					
Conducted By:		Calculated By: D. D. Kimble		Checked By:	