

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: BDCDGU	
Completion Date: 12-2-83		Total Depth: 2646'		Plug Back TD: 2550'		Elevation: 4483' GL		Farm or Lease Name:	
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2646'	Perforations: From 2046' To 2166'		Well No.: 1934 361G			
Tbg. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2060'	Perforations: From To		Unit Sec. Twp. Rge. G 36 19 35			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: 2030'		County: Union	
Producing Thru: Tubing		Reservoir Temp. °F: 85° @ 2226'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2226'	H: 2226'	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							304				
1.	4.026 x 2.75			211	41	55	223.2	50			24 hrs
2.	4.026 x 2.75			229	31	56	241.2	50			24 hrs
3.	4.026 x 2.75			253	19	57	265.2	50			24 hrs
4.	4.026 x 2.75			275	11	58	287.2	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							3303
2							2981
3							2470
4							1939
5							

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

P _c 316.2	P _c ² 99.982		
NO.	F _r ²	P _w	P _w ²
1		223.2	50.164
2		241.2	41.805
3		265.2	29.651
4		287.2	17.499
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.99$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4695$$

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

Absolute Open Flow: 4695 Mcfd @ 15.025	Angle of Slope θ:	Slope, n: .51
Remarks:		
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble
		Checked By: