

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: 1-21-74		Total Depth: 2668'		Plug Back TD: 2500'		Elevation: 2970 GL		Farm or Lease Name:	
Csg. Size: 4-1/2"	Wt.: 9.5#	d:	Set At: 2668'	Perforations: From 2370' To 2500'		Well No.: 1933 031M			
Thq. Size: 2-7/8"	Wt.: 6.5#	d:	Set At: 2333'	Perforations: From To		Unit: M Soc: 3 Twp: 19 Hqy: 33			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At: 2333'		County: Harding	
Producing Thru: Tubing		Reservoir Temp. °F: 97° @ 2435'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2435'	H: 2435'	Gg: 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
1.	4.026 x 1.75			216	44	60	228.2	50			24 hrs
2.	4.026 x 1.75			233	26	59	245.2	50			24 hrs
3.	4.026 x 1.75			251	15	59	263.2	50			24 hrs
4.	4.026 x 1.75			283	1	55	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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							1267
2							1028
3							810
4							233
5							

NO.	P _t	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	P.S.I.A.	P.S.I.A.
1					0	0	1.529	XXXXXX	1072	547		
2												
3												
4												
5												

P _c : 301.2	P _c ² : 90.721	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.347$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.83$
NO. 1	P _t ² : 228.2	P _w ² : 38.646	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2322$
2	245.2	30.598	
3	263.2	21.447	
4	295.2	3.578	
5			

Absolute Open Flow: 2322 Mcfd @ 15.025	Angle of Slope θ: .71
Remarks:	
Approved By Commission:	Conducted By:
	Calculated By: D. D. Kimble
	Checked By: