

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: 5-10-85				
Company: Amoco Production Company				Connection:					
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area				Formation: Tubb				Unit: BDCDGU	
Completion Date: 11-03-83		Total Depth: 2645'		Plug Back TD: 2537'		Elevation: 4924' GL		Farm or Lease Name:	
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2645'	Perforations: From 2359 To 2443'		Well No.: 1933 221A			
Tbg. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2319'	Perforations: From To		Unit: A Sec. 22 Twp. 19 Rge. 33			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At: 2288'		County: Harding		
Producing Thru Tubing		Reservoir Temp. °F: 90° @ 2401'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2401'	H: 2401'	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
1.	4.026 x 1.375			209	40	60	221.2	50			24 hrs
2.	4.026 x 1.375			233	25	58	245.2	50			24 hrs
3.	4.026 x 1.375			248	15	58	260.2	50			24 hrs
4.	4.026 x 1.375			282	3	55	294.2	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							717
2							597
3							482
4							230
5							

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

P _c 300.2	P _c ² 90.120	
NO.	P _r ²	P _w ²
1	221.2	41.191
2	245.2	29.997
3	260.2	22.416
4	294.2	3.566
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.19$

ACF = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1028$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.43$

Absolute Open Flow: 1028 Mcfd @ 15.025	Angle of Slope θ : _____	Slope, n: .46
Remarks: _____		
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble
		Checked By: