

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: 6-19-85			
Company: Amoco Production Company				Connection:					
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area				Formation: Tubb				Unit: BDCDGU	
Completion Date: 3-25-81		Total Depth: 2552'		Plug Back TD: 2497'		Elevation: 4670' GL		Farm or Lease Name:	
Csq. Size: 5-1/2"	Wt. 14#	Set At: 2552'	Perforations: From 2138' To 2301'		Well No. 1935 301G				
Tqg. Size: 2-3/8"	Wt. 4.7#	Set At: 1974'	Perforations: From To		Unit: G		Soc. 30	Twp. 19	Rge. 35
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At: 1944'		County: Union	
Producing Thru: Tubing		Reservoir Temp. °F: 85° @ 2220'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2220'	H: 2220'	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.	
SI							318			
1.	4.026 x 2.125			228	32	54	240.2	50		
2.	4.026 x 2.125			249	24	65	261.2	50		24 hrs
3.	4.026 x 2.125			272	13	65	284.2	50		24 hrs
4.	4.026 x 2.125			293	5	66	305.2	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							1771
2							1483
3							1144
4							
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 _r 330.2		P _w 109.0	
NO.	P _r	P _w	P _r ² - P _w ²
1		240.2	51.336
2		261.2	40.807
3		284.2	28.262
4		305.2	15.885
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.123$

AOF = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.069$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.73$

Absolute Open Flow: 3.069 Mcfd @ 15.025	Angle of Slope θ : _____	Slope, n: .73
Remarks: _____		
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble
		Checked By: