

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	
Completion Date: 12-6-83		Total Depth: 2584'	Plug Back TD: 2460'
		Elevation: 4632 GL	Farm or Lease Name:
Csg. Size: 7"	Wt. 20#	Set At: 2584'	Perforations: From 2090' To 2260'
Thg. Size: 3-1/2"	Wt. 9.3#	Set At: 2056'	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single		Packer Set At: 2025'	Well No. 1935 291G
Producing Thru Tubing	Reservoir Temp. °F: 95° @ 2175'	Mean Annual Temp. °F: 50	Baro. Press. - P _a : 12.2
State: New Mexico			
L: 2175'	H: 2175'	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.	
SI							332			
1.	4.026 x 2.75			253	37	58	265.2	50		
2.	4.026 x 2.75			273	22	60	285.2	50		
3.	4.026 x 2.75			296	11	61	308.2	50		
4.	4.026 x 2.75			317	3	61	329.2	50		
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							3361
2							2692
3							1963
4							
5							

NO.	P _t	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 344.2	P _w 118.47		
NO.	P _t	P _w	P _c ² - P _w ²
1		265.2	48.143
2		285.2	37.135
3		308.2	23.486
4		329.2	10.101
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.46$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6603$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.96$

Absolute Open Flow: 6603 Mcfd @ 15.025	Angle of Slope θ: _____	Slope, n: .75
Remarks: _____		
Approved by Commission:	Conducted By:	Calculated By: D. D. Kimble
		Checked By: