

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: 8-6-85	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area		Formation: Tubb	
Completion Date: 10-30-84		Total Depth: 2843	Plug Back TD: 2745
Csg. Size: 7		Wt.: 20	Elevation: 4765
Tbg. Size: 3.5		Wt.: 9.3	Well No.: 1834 181G
Set At: 2845		Perforations: From 2484 To 2553	Unit: G
Set At: 2377		Perforations: From To	Sec.: 18
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At: 2346	Twp.: 18
Producing Thru: Tubing		Reservoir Temp. °F: 90 @ 2519	County: Union
Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2	State: New Mexico
L: 2519	H: 2519	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							301			
1.	4.026 x 1.875			191	28	61	203.2	50		
2.	4.026 x 1.875			207	21	61	219.2	50		24 hr
3.	4.026 x 1.875			227	14	61	239.2	50		24 hr
4.	4.026 x 1.875			250	8	61	262.2	50		24 hr
5.										24 hr

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							1148
2							1033
3							889
4							723
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
1.					0	0	1.529	X X X X X X X X	1072	547
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		203.2		56.804
2		219.2		50.046
3		239.2		40.878
4		262.2		29.345
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.73$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.47$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1683$

P_c 312.2 P_c² 98.094

Absolute Open Flow: 1683	Mcfd @ 15.025	Angle of Slope θ	Slope, n: .70
--------------------------	---------------	------------------	---------------

Remarks:			
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble	Checked By:

1834 1816

46 7400

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

AOE = 1683

Q = MCF

