

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: 9-5-84		Total Depth: 2990'		Plug Back TD: 2827'		Elevation: 4800'		Farm or Lease Name:
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2980'	Perforations: From 2528' To 2610'			Well No.: 1834 111G	
Tbg. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2406'	Perforations: From To			Unit: G Sec. 11 Twp. 18 Rge. 34	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single					Packer Set At: 2375'		County: Union	
Producing Thru: Tubing		Reservoir Temp. °F: 98 2569'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico
L: 2569'	H: 2569'	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
SI							342				
1.	4.026 x 2.5			206	51	58	218.2	50			24 hrs
2.	4.026 x 2.5			224	38	58	236.2	50			24 hrs
3.	4.026 x 2.5			255	24	58	267.2	50			24 hrs
4.	4.026 x 2.5			271	18	58	283.2	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							2857
2							2590
3							2221
4							1965
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	0 Mcf/bbl.	
1					A.P.I. Gravity of Liquid Hydrocarbons	0 Deg.	
2					Specific Gravity Separator Gas	1.529	XXXXXXXXXX
3					Specific Gravity Flowing Fluid	XXXXXX	
4					Critical Pressure	1072 P.S.I.A.	P.S.I.A.
5					Critical Temperature	547 R	R

P _c : 354.2	P _c ² : 125.458
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NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.61$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.39$
1		218.2		77.846		
2		236.2		69.667		
3		267.2		54.062		
4		283.2		45.255		
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3971$

Absolute Open Flow: 3971 Mcfd @ 15.025	Angle of Slope θ: _____	Slope, n: .69
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Remarks: _____

Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble	Checked By:
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1834 1116

46 7200

LOGARITHMIC 2 x 2 CYCLES
KEUFFEL & ESSLER CO. MADE IN U.S.A.

K_{SE}

AOF = 3971

P₁₂ = 7.25

Q = MCF

