

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: 6-8-85			
Company: Amoco Production Company				Connection:					
Pool: Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area				Formation: Tubb				Unit: BDCDGU	
Completion Date: 1-11-84		Total Depth: 2642'		Plug Back TD: 2538'		Elevation: 4490 GL		Farm or Lease Name:	
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2642'	Perforations: From 2043' To 2150'		Well No.: 1835 011C			
Thq. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 1982'	Perforations: From To		Unit: C Sec: 1 Twp: 18 Rge: 35			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: 1943'		County: Union	
Producing Thru: Tubing		Reservoir Temp. *F: @ 2096'		Mean Annual Temp. *F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2096'	H: 2096'	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							333			
1.	4.026 x 2.125			277	20	63	289.2	50		
2.	4.026 x 2.125			286	16	63	298.2	50		
3.	4.026 x 2.125			295	12	62	307.2	50		
4.	4.026 x 2.125			311	6	61	323.2	50		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							4414
2							1266
3							1116
4							835
5							

NO.	P _r	Temp. *R	T _r	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.
5					Critical Temperature: 547 R

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.354$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.067$
1		289.2		35.526		
2		298.2		30.240		
3		307.2		24.791		
4		323.2		14.705		
5						

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2923$

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.354$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.067$

Absolute Open Flow: 2923 Mcfd @ 15.025	Angle of Slope θ :	Slope, n: .60
Remarks:		
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble
		Checked By:

1835 0116

46 7200

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

$POF = 2923$

$Q = MCF$

100 1.5 2 2.5 3 4 5 6 7 8 9 1000 1.5 2 2.5 3 4 5 6 7 8 9 1