

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	
Company Amoco Production Company				Connection		
Pool Bravo Dome Carbon Dioxide Gas Unit-640 Acre Area				Formation		Unit BDCDGU
Completion Date 12-1-85		Total Depth 2550		Plug Back TD 2454		Elevation 4550
Csg. Size 7	Wt. 20	d	Set At 2550	Perforations: From 2345 To 2408		Well No. 1835 271G
Tbg. Size 3-1/2	Wt. 9.3	d	Set At 2194	Perforations: From To		Unit Sec. Twp. Rge. G 27 18 35
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2164		County Union
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2377		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.25
State New Mexico						
L 2377	H 2377	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
1.	4.026 x 3.000			180.1	3	48	192.35	48			1.5
2.	4.026 x 3.000			150.1	6	49	162.35	49			1.5
3.	4.026 x 3.000			123.5	12	51	135.75	51			1.5
4.	4.026 x 3.000			98.5	14.5	51	110.75	51			1.5
5.											

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.							1400
2.							1570
3.							1726
4.							1768
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					0	
2.						
3.						
4.						
5.						

P _c 358.2 P _c ² 128.307		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
Specific Gravity Separator Gas 1.529		X X X X X X X X	
Specific Gravity Flowing Fluid X X X X X			
Critical Pressure 1072		P.S.I.A.	
Critical Temperature 496		R	

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	192.4			91.289
2.	162.4			101.933
3.	135.8			109.865
4.	110.8			116.163
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1939$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.09$

Absolute Open Flow	1939	Mcf/d @ 15.025	Angle of Slope	Slope, n	.97
--------------------	------	----------------	----------------	----------	-----

Remarks:			
Approved By Commission:	Conducted By:	Calculated By: Don Kimble	Checked By: