

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	
Completion Date 12-1-85		Total Depth 2474	Plug Back TD 2400'
Elevation 4688		Unit BDCDGU	
Csg. Size 7	Wt. 20	Set At 2474	Perforations: From 2150 To 2321
Thq. Size 3-1/2	Wt. 9.3	Set At 1999	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 1968'
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2236	Mean Annual Temp. °F 50
Baro. Press. - P _a 12.25		State New Mexico	
L 2236	H 2236	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 2.000			187.6	64	45	199.85	45			
2.	4.026 x 2.000			171.5	76	45	183.75	45			1.5
3.	4.026 x 2.000			127.5	42	46	139.75	46			1.5
4.	4.026 x 2.000			101.5	58.5	45	113.75	45			1.5
5.											1.5

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, F _{pv}	Rate of Flow Q, Mcfd
1.							1601
2.							1720
3.							1900
4.							2130
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		1.529	X X X X X X X X	1072	496
2.									P.S.I.A.	P.S.I.A.
3.									R	R
4.										
5.										

P _c 333.2	P _c ² 110,357			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		199		70,756
2.		184		76,500
3.		139		91,036
4.		113		97,588
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.13$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2376$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.11$

Absolute Open Flow	2376	Mcfd @ 15.025	Angle of Slope θ	Slope, n .89
Remarks:				

Approved by Commission:	Conducted By:	Calculated By: Don Kimble	Cchecked By:
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