

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: 5-10-85	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area		Formation: Tubb	
Unit: BDCDGU		Farm or Lease Name:	
Completion Date: 12-5-80	Total Depth: 2571'	Plug Back TD: 2568'	Elevation: 4894'
Csg. Size: 4-1/2"	Wt.: 9.5#	Set At: 2571'	Perforations: From 2314' To 2554'
Thg. Size: 2-3/8"	Wt.: 4.7#	Set At: 2245'	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single		Packer Set At: 2261'	County: Harding
Producing Thru: Tubing	Reservoir Temp. °F: 92° @ 2434'	Mean Annual Temp. °F: 50	Baro. Press. - P _a : 12.2
State: New Mexico			
L: 2434'	H: 2434'	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							308			
1.	4.026 x 1.75			228	40	60	240.2	50		
2.	4.026 x 1.75			246	25	59	258.2	50		24 hrs
3.	4.026 x 1.75			270	10	59	282.2	50		24 hrs
4.	4.026 x 1.75			293	2	42	305.2	50		24 hrs
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							1239
2							1028
3							684
4							318
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.										

P _c 320.2	P _c ² 102,528	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.287$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.05$
NO	P _t ²	P _w	P _w ²
1		240.2	44.832
2		258.2	35.860
3		282.2	22.891
4		305.2	9.381
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2545$

Absolute Open Flow: 2545 Mcfd @ 15.025	Angle of Slope θ: .87
Remarks:	
Approved By Commission:	Conducted By:
Calculated By: D. D. Kimble	Checked By: