NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] 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: 1-2-86	Total Depth: 2351	Plug Back TD: 2304-	Elevation: 4590	Farm or Lease Name	
Csg. Size: 7 / Wt.: 20 / d / Set At: 2351		Perforations: From 2121 To 2240		Well No.: 2035 341F	
Tbg. Size: 3-1/2 / Wt.: 9.3 / d / Set At: 1993		Perforations: From To		Unit: F / Sec.: 34 / Twp.: 20 / Rge.: 35	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Singe		Packer Set At: 1963		County: Union	
Producing Thru: Tubing	Reservoir Temp. °F: 90 @ 2181	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.25	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2181	2181	1.529	100	0	0		4.0	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					311				
1.	4.026 x 3.000	188.9	23	57	201.15	57			1.5
2.	4.026 x 3.000	162.1	32	57	174.35	57			1.5
3.	4.026 x 3.000	137.9	44.5	56	150.15	56			1.5
4.	4.026 x 3.000	114.7	64.5	54	126.95	54			1.5
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, Fpv	Rate of Flow Q, Mcfd
1							2976
2.							3128
3.							3376
4.							3576
5.							

NO.	P_t	Temp. °R	T_f	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas 1.529 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx ____
Critical Pressure 1072 P.S.I.A. ____ P.S.I.A.
Critical Temperature 496 R ____ R

P_c 323.2 P_c^2 104.458

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		201		64.057
2		174		74.182
3		150		81.958
4		126		88.582
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.18$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.10$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3961$

Absolute Open Flow 3961 Mcfd @ 15.025 Angle of Slope θ ____ Slope, n .62

Remarks: ____

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