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: 2489	Plug Back TD: 2444	Elevation: 4730	Farm or Lease Name	
Csg. Size: 7 / Wt.: 20 / d / Set At: 2490		Perforations: From 2251 To 2380		Well No.: 2034 241J	
Tbg. Size: 3-1/2 / Wt.: 9.3 / d / Set At: 2381		Perforations: From To		Unit: J / Sec.: 24 / Twp.: 20 / Rge.: 34	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Singe		Packer Set At: 2228		County: Union	
Producing Thru: Tubing	Reservoir Temp. °F: 90 @ 2316	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
2316	2316	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					296				
1.	4.026 x 3.000	183.8	34.5	42	196.05	42			1.5
2.	4.026 x 3.000	155.5	40	44	167.75	44			1.5
3.	4.026 x 3.000	129.2	48	44	141.45	44			1.5
4.	4.026 x 3.000	100.3	58.5	44	112.55	44			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							2500
2.							2850
3.							3200
4.							3645
5.							

NO.	P_t	Temp. °R	T_t	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 308.2 P_c^2 94.987

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		196		56.571
2		167		67.098
3		141		75.106
4		112		82.443
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.15$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.15$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4200$

Absolute Open Flow 4200 Mcfd @ 15.025 Angle of Slope θ ____ Slope, n 1.00

Remarks:

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