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: 4-4-85

Company: Amoco Production Company	Connection:		
Pool: Bravo Dome Carbon Dioxide Unit - 640 acre area	Formation: Tubb		Unit: BDCDGU
Completion Date: 1-16-84	Total Depth: 2725	Plug Back TD: 2700	Elevation: 5055
Farm or Lease Name:			
Csg. Size: 7 / Wt.: 20 / d: / Set At: 2725	Perforations: From 2439 To 2669		Well No.: 2033 031G
Tbg. Size: 3.5 / Wt.: 9.3 / d: / Set At: 2441	Perforations: From To		Unit: G / Sec.: 03 / Twp.: 20 / Rge.: 33
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 2410		County: Harding
Producing Thru: Tubing	Reservoir Temp. °F: 90° @ 2554	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.2
State: New Mexico			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2554	2554	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					318				
1.	4.026 x 2.00	215	47	61	227.2	50			24 hr.
2.	4.026 x 2.00	240	27	59	252.2	50			24 hr.
3.	4.026 x 2.00	260	15	60	272.2	50			24 hr.
4.	4.026 x 2.00	281	6	58	293.2	50			24 hr.
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							1703
2.							1373
3.							950
4.							681
5.							

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

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 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 547 R R

P_c 330.2 P_c^2 109.032

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		227.2		57.412
2		252.2		45.427
3		272.2		34.939
4		293.2		23.066
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3234$

Absolute Open Flow 3234 Mcfd @ 15.025 Angle of Slope θ Slope, n 1.00

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		D. D. Kimble	