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: 5-10-85

Company: Amoco Production Company	Connection:			
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area	Formation: Tubb			Unit: BDCDGU
Completion Date: 11-28-83	Total Depth: 2658'	Plug Back TD: 2611'	Elevation: 4948'	Farm or Lease Name:
Csg. Size: 7" / Wt.: 20# / d: / Set At: 2658'	Perforations: From 2316' To 2441'			Well No.: 1933 101G
Tbg. Size: 3-1/2" / Wt.: 9.3# / d: / Set At: 2296'	Perforations: From To			Unit: G / Sec.: 10 / Twp.: 19 / Rge.: 33
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 2257'			County: Harding
Producing Thru: Tubing	Reservoir Temp. °F: 89° @ 2504'	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
2504	2504	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					280				
1.	4.026 x 031M	225	42	59	237.2	50			24 hrs
2.	4.026 x 031M	237	32	58	249.2	50			24 hrs
3.	4.026 x 031M	249	22	58	261.2	50			24 hrs
4.	4.026 x 031M	275	7	57	267.2	50			24 hrs
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							1461
2.							1327
3.							1124
4.							682
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: 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 292.2 P_c^2 85.381

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		237.2		29.117
2		249.2		23.280
3		261.2		17.155
4		267.2		13.985
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.932$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.71$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2502$

Absolute Open Flow: 2502 Mcfd @ 15.025 — Angle of Slope θ: ____ — Slope, n: .50

Remarks:

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