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: 12-30-85	Total Depth: 2222	Plug Back TD: 2194	Elevation: 4465	Farm or Lease Name	
Csg. Size: 7 / Wt.: 20 / d / Set At: 2223		Perforations: From 2077 To 2139		Well No.: 1836 061F	
Tbg. Size: 3-1/2 / Wt.: 9.3 / d / Set At: 1923		Perforations: From To		Unit: F / Sec.: 6 / Twp.: 18 / Rge.: 36	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Singe		Packer Set At: 1892		County: Union	
Producing Thru: Tubing	Reservoir Temp. °F: 90 @ 2108	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
2108	2108	1.529	100	0	0		4.0	Flange

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					360				
1.	4.026 x 2.500	181.2	12	44	193.45	44			1.5
2.	4.026 x 2.500	151.8	16	46	164.05	46			1.5
3.	4.026 x 2.500	122.0	22	46	134.25	46			1.5
4.	4.026 x 2.500	93.3	30.5	47	105.55	47			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							1327
2.							1403
3.							1484
4.							1535
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 372.2 P_c^2 138.532

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		193.5		101.090
2		164		111.636
3		134		120.577
4		105.6		127.381
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.08$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.05$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1611$

Absolute Open Flow: 1611 Mcfd @ 15.025 | Angle of Slope θ: | Slope, n: .63

Remarks:

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