

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 8-23-87	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome		Formation: Tubb	
Completion Date: 7-11-81		Total Depth: 2890'	Plug Back TD: 2832'
		Elevation: 4750'	
Csg. Size: 5.5" Wt. 14#		Set At: 5.012" 2890'	Perforations: From 2494' To 2566'
Tqg. Size: 2.375" Wt. 4.6#		Set At: 1.995" 2448'	Perforations: From To
Type Well - Single - Bradenhead - G.C. or G.O. Multiple		Packer Set At: 2448'	Well No. 1834-1916
Single		County: Union	Unit: BDCDGU
Producing Thru Tubing	Reservoir Temp. °F: 90	Mean Annual Temp. °F: 50	Baro. Press. - P _g : 12.25
State: New Mexico		Farm or Lease Name:	
L	H	Gg	% CO ₂ : 100
			% N ₂ : 0
			% H ₂ S: 0
Prover		Meter Run: 4.0	Taps: Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI							264				24 hr.
1.	4.026 x	0.50		180	15	50	180	50	0		1 hr.
2.	4.026 x	0.50		160	20	49	160	49	0		1 hr.
3.	4.026 x	0.50		140	35	49	140	49	0		1 hr.
4.	4.026 x	0.50		120	39	48	120	48	0		1 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.							53
2.							58
3.							72
4.							71
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					0		1.529	X X X X X	1072	496
2.										
3.										
4.										
5.										

P _c 276.25 P _c ² 76314		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9764$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.88$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		192.25	36960	39354	
2		172.25	29670	46644	
3		152.25	23180	53134	
4		132.25	17490	58824	
5					

Absolute Open Flow: 94 Mcfd @ 15.025		Angle of Slope θ: 47.18		Slope, n: 0.9266	
Remarks:					
Approved by Commission: Conducted By: RANDY MAHANNAH Calculated By: RICHARD ROETH Checked By:					

**BRAVO DOME
AOF TESTING DATA SHEET**

TEST DATE: 8/23/87
WELL NO.: 800060 1834 1916

SHUT-IN TBG PRESSURE: 198
30 MIN. SHUT-IN TBG PRESSURE: 264

RATE NO. 1

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	_____ _____ meqD (2) Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	185	52	0.500	185	14	50
15	180	53		180	15	50
30	180	53		180	15	50
45	180	53		180	15	50
60	180	53		180	15	50

RATE NO. 2

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	_____ _____ meqD (2) Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	160	55	0.500	160	18	50
15	160	55		160	18	49
30	160	54		160	19	49
45	160	55		160	20	49
60	160	58		160	20	49

RATE NO. 3

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	_____ _____ meqD (2) Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	140	59	0.500	140	24	49
15	140	59		140	24	49
30	140	64		140	30	49
45	140	77		140	40	49
60	140	72		140	35	49

RATE NO. 4

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	_____ _____ meqD (2) Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	120	75	0.500	120	44	49
15	120	77		120	46	48
30	120	72		120	41	48
45	120	71		120	39	48
60	120	71		120	39	48

BDCDGU No. 1834 1716

