

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: 8-22-87	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome				Formation: Tubb	
Completion Date: 12-10-84		Total Depth: 2813		Plug Back TD: 2770	
				Elevation: 4740	
Csg. Size: 7"		Wt.: 20#		Perforations: From 2436' To 2512'	
Tag. Size: 3.5"		Wt.: 9.5#		Perforations: From To	
				Well No.: 1834-301G	
				Unit: G Sec. 30 Twp. 18 Rge. 34	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: 2299'	
Producing Thru: Tubing				State: New Mexico	
Reservoir Temp. °F: 90		Mean Annual Temp. °F: 50		Baro. Press. - P _g : 12.25	
L	H	G _g	% 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
1.	4.026	x	0.50	168	1	65	168	65	0		24 hr.
2.	4.026	x	0.50	150	1	67	150	67	0		1 hr.
3.	4.026	x	0.50	130	2	72	130	72	0		1 hr.
4.	4.026	x	0.50	110	2	76	110	76	0		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							13
2.							12
3.							16
4.							15
5.							

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

P _c 204.25 P _c ² 41718			
NO.	F _t ²	P _w	P _w ²
1		180.25	32490
2		160.25	26325
3		142.25	20235
4		122.25	14945
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.96$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 21$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4$$

Absolute Open Flow 21 Mcfd @ 15.025	Angle of Slope 63.44	Slope, n 0.5
Remarks:		

Approved by Commission:	Conducted By: RANDY MAHANNAH	Calculated By: RICHARD ROETH	Checked By:
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**BRAVO DOME
AOF TESTING DATA SHEET**

TEST DATE: 8/22/87
WELL NO.: BDCDEU 18343016

SHUT-IN TBG PRESSURE: 192
30 MIN. SHUT-IN TBG PRESSURE: 172

RATE NO. 1

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TEMP. MeFD () Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	168	23	0.500	168	3	64
15	168	19		168	2	64
30	168	19		168	2	64
45	168	13		168	1	63
60	168	13		168	1	65

RATE NO. 2

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TEMP. MeFD () Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	150	12	0.500	150	1	64
15	150	18		150	2	66
30	150	12		150	1	64
45	150	12		150	1	67
60	151	12		151	1	67

RATE NO. 3

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TEMP. MeFD () Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	130	26	0.500	130	5	67
15	131	20		131	3	67
30	130	16		130	2	69
45	130	16		130	2	70
60	130	16		130	2	72

RATE NO. 4

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TEMP. MeFD () Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	110	24	0.500	110	5	72
15	110	15		110	2	76
30	110	15		110	2	78
45	110	15		110	2	80
60	110	15		110	2	76

BDCDGU No. 1834 301G

