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: 8-25-87	
Company: Amoco Production Company			Connection:		
Pool: Bravo Dome			Formation: Tubb		Unit: BDCDGU
Completion Date: 2-19-84	Total Depth: 2802		Plug Back TD: 2520	Elevation: 4680	Farm or Lease Name:
Csg. Size: 7 / Wt.: 20# / d: 6.456 / Set At: 2802			Perforations: From 2483 To 2506		Well No.: 1834-331G
Tbg. Size: 3.5 / Wt.: 9.5# / d: 3.00 / Set At: 2441			Perforations: From To		Unit: G / Sec.: 33 / Twp.: 18 / Rge.: 34
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 2403'		County: Union
Producing Thru: Tubing	Reservoir Temp. °F: 90	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.25		State: New Mexico
L:	H:	Gg:	% CO_2: 100	% N_2: 0	% H_2S: 0
Prover:	Meter Run: 4.0	Taps: 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						331				24 hr.
1.	4.026	x 1.00	218	7	60	218	60	0		1 hr.
2.	4.026	x 1.00	195	11	66	195	66	0		1 hr.
3.	4.026	x 1.00	165	14	67	165	67	0		1 hr.
4.	4.026	x 1.00	140	19	67	140	67	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							
2.							159
3.							189
4.							197
5.							213

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 ____ 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 343.25 P_c^2 117820

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		230.25	53015	64805
2		207.25	42952	74868
3		177.25	31417	86403
4		152.25	23180	94640
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.334$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.25$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 250$

Absolute Open Flow 250 Mcfd @ 15.025 | Angle of Slope θ 52.24 | Slope, n 0.7746

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	RANDY MAHANNAH	RICHARD ROETH	

BRAVO DOME
AOF TESTING DATA SHEET

TEST DATE: 8/25/87
WELL NO.: BDCDGU 1834 3316

SHUT-IN TBG PRESSURE: 331
30 MIN. SHUT-IN TBG PRESSURE: 289

RATE NO. 1

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	[redacted] TEMP. McfD [redacted] RATE	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	218	170	1.000"	218	8	60
15	218	159		218	7	60
30	218	159		218	7	60
45	218	159		218	7	60
60	218	159		218	7	60

RATE NO. 2

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	[redacted] TEMP. McfD [redacted] Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	195	197	1.000"	195	12	59
15	195	189		195	11	61
30	195	189		195	11	63
45	195	189		195	11	65
60	195	189		195	11	66

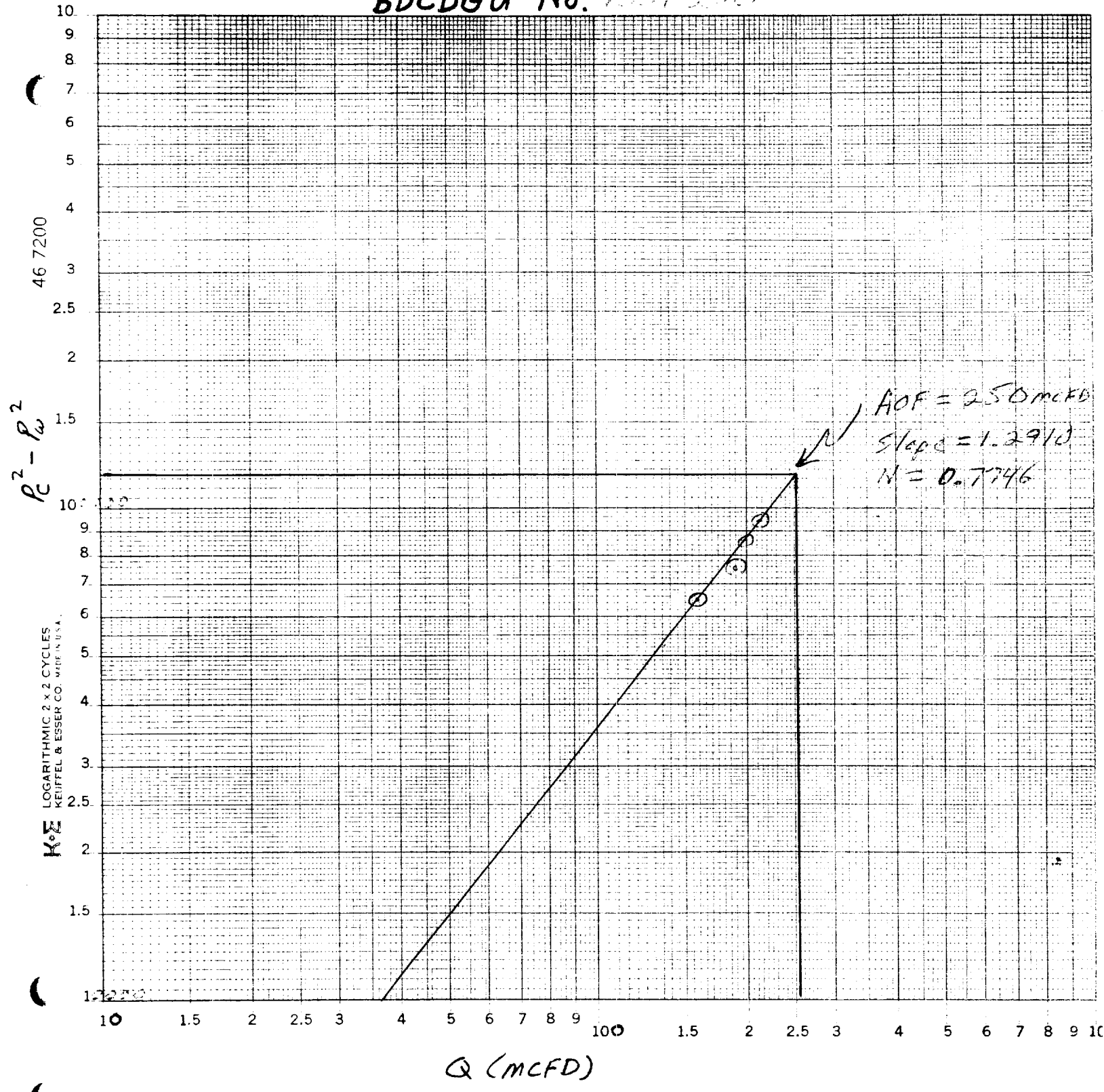
RATE NO. 3

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	[redacted] TEMP. McfD [redacted] Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	165	210	1.000	165	16	67
15	165	197		165	14	67
30	165	197		165	14	66
45	165	197		165	14	67
60	165	197		165	14	67

RATE NO. 4

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	[redacted] TEMP. McfD [redacted] Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	140	207	1.000	140	18	65
15	140	213		140	19	66
30	140	218		140	20	66
45	140	213		140	19	67
60	140	213		140	19	67

BDCDGU No. [illegible]


AOF = 250 mcfd
Slope = 1.291/0
n = 0.7746
$p_c^2 - p_w^2$
Q (MCFD)
46 7200
K+E LOGARITHMIC 2 x 2 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.