

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

Form C-122
Revised 9-1-65

DIVISION

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 6-11-86				6-11-86			
Company Amoco Production Co				Connection							
Pool Bravo Dome				Formation Tub 66				Unit BDCDGW			
Completion Date 5-19-86		Total Depth 3223		Plug Back TD 2358		Elevation 4736 GL		Farm or Lease Name			
Csq. Size 5 1/2	Wt. 14 #	d 5.0	Set At 3223	Perforations: From 2310 To 2357				Well No. 2134361J			
Thq. Size 2.375	Wt. 4.7 #	d 1.9	Set At 2337	Perforations: From To				Unit Sec. Twp. Rge. J 36 21 34			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2275				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	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
SI							294.2		0		24 hr
1.	4.026 X	2.000	91	96	53	100	53	0			1 hr
2.	4.026 X	2.000	114	69	53	116	53	0			1 hr
3.	4.026 X	2.000	150	43	53	140	53	0			1 hr
4.	4.026 X	2.000	175	32	51	158	51	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcld
1							1652
2							1552
3							1379
4							1281
5							

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

NO.	P _e	P _w	P _w ²	P _e ² - P _w ²	$(1) \frac{P_e^2}{P_e^2 - P_w^2} = 1.155$ $(2) \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.122$ $AOF = Q \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1853$
1		112.25	12600	81312	
2		128.25	16448	77464	
3		152.25	23180	70732	
4		170.25	28985	64927	
5					

Absolute Open Flow 1853 Mcld @ 15.025		Angle of Slope θ		Slope, n 0.80
Remarks:				
Approved by Commission: Conducted By: Calculated By: Checked By:				

BRAVO DOME
WOLF TESTING DATA SHEET

TEST DATE: 6-11-86
WELL NO: BDCDGM 2134 3615

SHUT-IN TBG PRESSURE: 294.2
30 MIN. SHUT-IN TBG PRESSURE: 285.7

RATE NO. 1

TIME [MIN.]	FLOWING TBG. PRESS. [PSIG]	WELL HEAD PRESS. [PSIG] MCFD	ORIFICE SIZE [IN.] <u>1.812.81</u>	STATIC PRESSURE [PSIG]	DIFFERENTIAL PRESSURE [IN. H2O]	METER TEMP [F]
9:15 0	163.0	1388	2.000	175	37"	48°
9:30 15	159.2	1288	2.000	175	32	50°
9:45 30	158.8	1245	2.000	175	30	52°
10:00 45	158.9	1244	2.000	175	30	53°
10:15 60	158.9	1244	2.000	175	30	53°

RATE NO. 2

TIME [MIN.]	FLOWING TBG. PRESS. [PSIG]	WELL HEAD PRESS. [PSIG] MCFD	ORIFICE SIZE [IN.]	STATIC PRESSURE [PSIG]	DIFFERENTIAL PRESSURE [IN. H2O]	METER TEMP [F]
10:15 0	140.4	1337	2.000	150	40	53°
10:30 15	140.9	1370	2.000	150	42	53°
10:45 30	140.6	1386	2.000	150	43	53°
11:00 45	141.1	1402	2.000	150	44	53°
11:15 60	141.3	1402	2.000	150	44	53°

RATE NO. 3

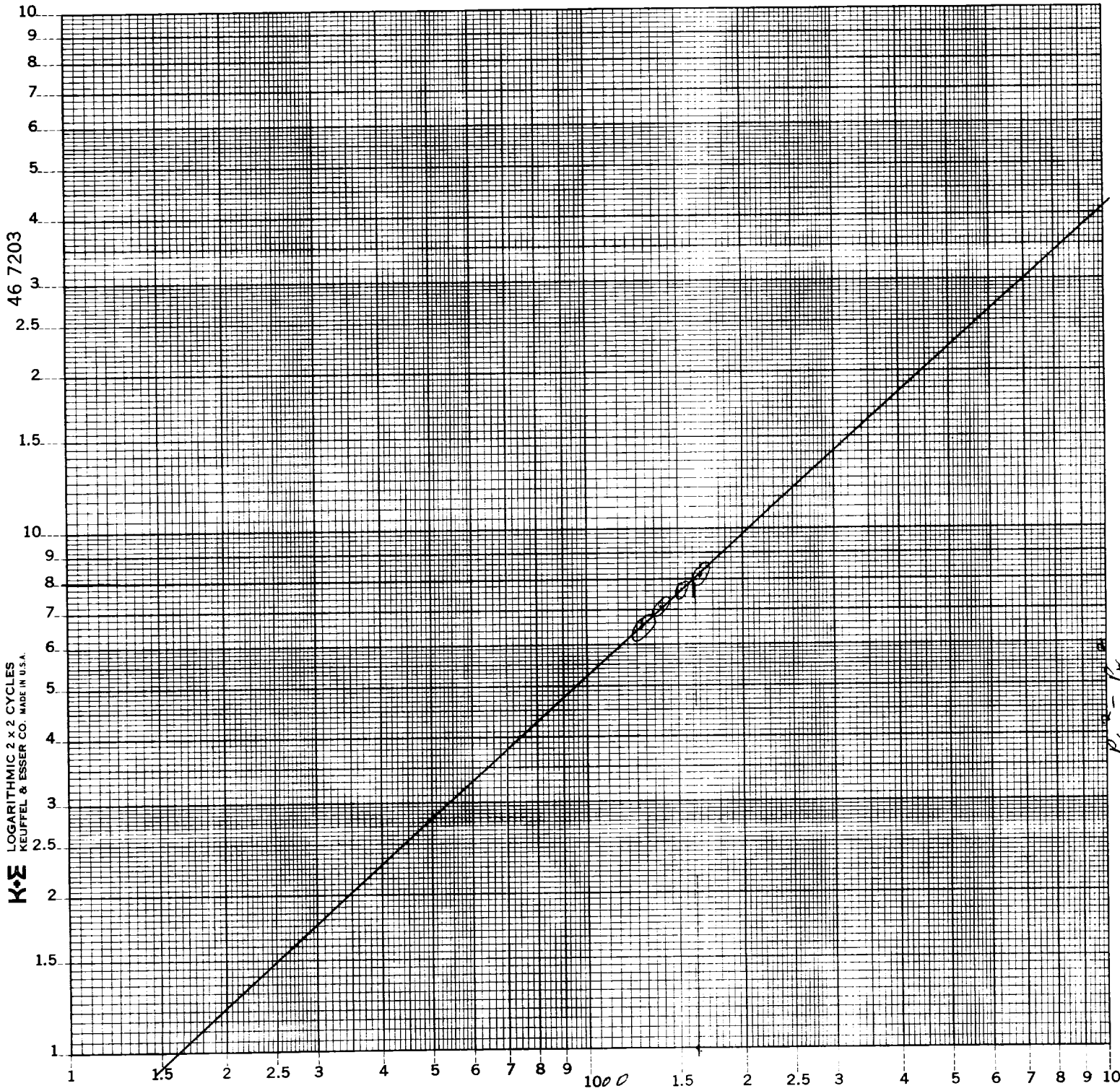
TIME [MIN.]	FLOWING TBG. PRESS. [PSIG]	WELL HEAD PRESS. [PSIG] MCFD	ORIFICE SIZE [IN.]	STATIC PRESSURE [PSIG]	DIFFERENTIAL PRESSURE [IN. H2O]	METER TEMP [F]
11:15 0	115.2	1503	2.000	114	65	53°
11:30 15	116.2	1515	2.000	114	66	53°
11:45 30	116.5	1560	2.000	114	70	53°
12:00 45	116.5	1582	2.000	114	72	53°
12:15 60	116.2	1604	2.000	114	74	53°

RATE NO. 4

TIME [MIN.]	FLOWING TBG. PRESS. [PSIG]	WELL HEAD PRESS. [PSIG] MCFD	ORIFICE SIZE [IN.]	STATIC PRESSURE [PSIG]	DIFFERENTIAL PRESSURE [IN. H2O]	METER TEMP [F]
12:15 0	100.2	1617	2.000	91	92	53°
12:30 15	100.8	1635	2.000	91	94	53°
12:45 30	100.4	1652	2.000	91	96	53°
1:00 45	100.6	1669	2.000	91	98	53°
1:15 60	100.6	1686	2.000	91	100	53°

Barton Meter of Separator out of Calibration

2134 3615



$$Q = MCF$$