

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

Form C-122

UNIT : BDCDGU
 LEASE :
 WELL : 2133281G
 S/T/R : 28,21,33
 COUNTY: HARDING
 STATE : NEW MEXICO

TYPE TEST: 4 POINT
 : INITIAL
 TEST DATE: 11/29/93

COMPANY: AMOCO PRODUCTION COMPANY
 FIELD: BRAVO DOME POOL: N/A
 COMPLETED 09-13-93 TD = 2598.
 CSG SIZE = 4.5000 WT = 4.56
 TBG SIZE = 0.0000 WT = 0.00
 TYPE COMPLETION: SINGLE
 PRODUCING THROUGH: CASING

CONNECTION: BRAVO DOME PLANT
 RESERVOIR: TUBB
 PBD = 2565. ELEV = 4968.
 SET AT 2598. PERF: 2343.- 2535.
 SET AT 0. PERF: 0.- 0.
 PACKER SET AT: 0.

RESERVOIR TEMP., F = 95. @ 2598. FT. BARO. PRESS = 12.20 PSIA
 MEAN GROUND TEMP., F = 50.

L	H	G	% CO2	% N2	% H2S	PROVER	M-RUN	TAPS
2598.	2598.	1.527	100.00	0.00	0.00	0.0	4.0	FLANGE

NO.	LINE SIZE	ORI. SIZE	FLOW PSIG	HW IN.	FLOW TEMP	TBG. PSIG	TBG. TEMP	CSG. PSIG	CSG. TEMP	FLOW HRS.
SI										
1	3.98 X	3.500	178.	29.0	60.	0.	0.	249.	50.	24.0
2	3.98 X	3.500	148.	34.0	61.	0.	0.	178.	60.	1.0
3	3.98 X	3.500	119.	35.0	60.	0.	0.	149.	61.	1.0
4	3.98 X	3.500	87.	34.0	58.	0.	0.	120.	60.	1.0
								90.	58.	1.0

NO.	COEFFICIENT (24 - HOUR)	SQRT. (HWPM)	PRESS. PM	T-FACTR F(T)	G-FACTR F(G)	SC-FACTR F(PV)	FLOW MCFD
1	90.10	74.27	190.2	1.0000	0.8092	1.0564	5720.
2	90.10	73.80	160.2	0.9990	0.8092	1.0468	5627.
3	90.10	67.76	131.2	1.0000	0.8092	1.0379	5128.
4	90.10	58.08	99.2	1.0019	0.8092	1.0282	4362.

NO.	P(R)	TEMP. R	T(R)	Z	GAS LIQ RATIO, MCF/BBL	
1	0.30	520.	0.80	0.896	API G OF HYDROCARBONS	0.000
2	0.26	521.	0.80	0.912	SP G SEPARATOR GAS	0.0
3	0.21	520.	0.80	0.928	SP G FLOWING FLUID	1.527 XXXXX
4	0.16	518.	0.80	0.946	CRITICAL PRES., PSIA	626. 626.
					CRITICAL TEMP., R	648. 648.

NO.	PT*PT	PW	PW*PW	PC*PC - PW*PW	
1	36.	190.	36.	32.	PC = 261.1
2	26.	161.	26.	42.	PC*PC = 68.
3	17.	132.	17.	51.	PC*PC/(PC*PC-PW*PW) = 2.1288
4	10.	102.	10.	58.	(PC*PC/(PC*PC-PW*PW))*N = 1.4591
					AOE (MCF/DAY) = 8346.

CALC WH OPEN FLOW = 8346. MCFD @ 15.025; SLOPE ANGLE = 63.4; N = 0.500

REMARKS: See Rules of Procedure - NMOC D-Section II-A-5-d-2, Page III-5
 Rates did not increase with pressure reduction-deliverability limited
 AVERAGE HOURS PRODUCED/DAY: 24.00

APPROVED BY
 COMMISSION:

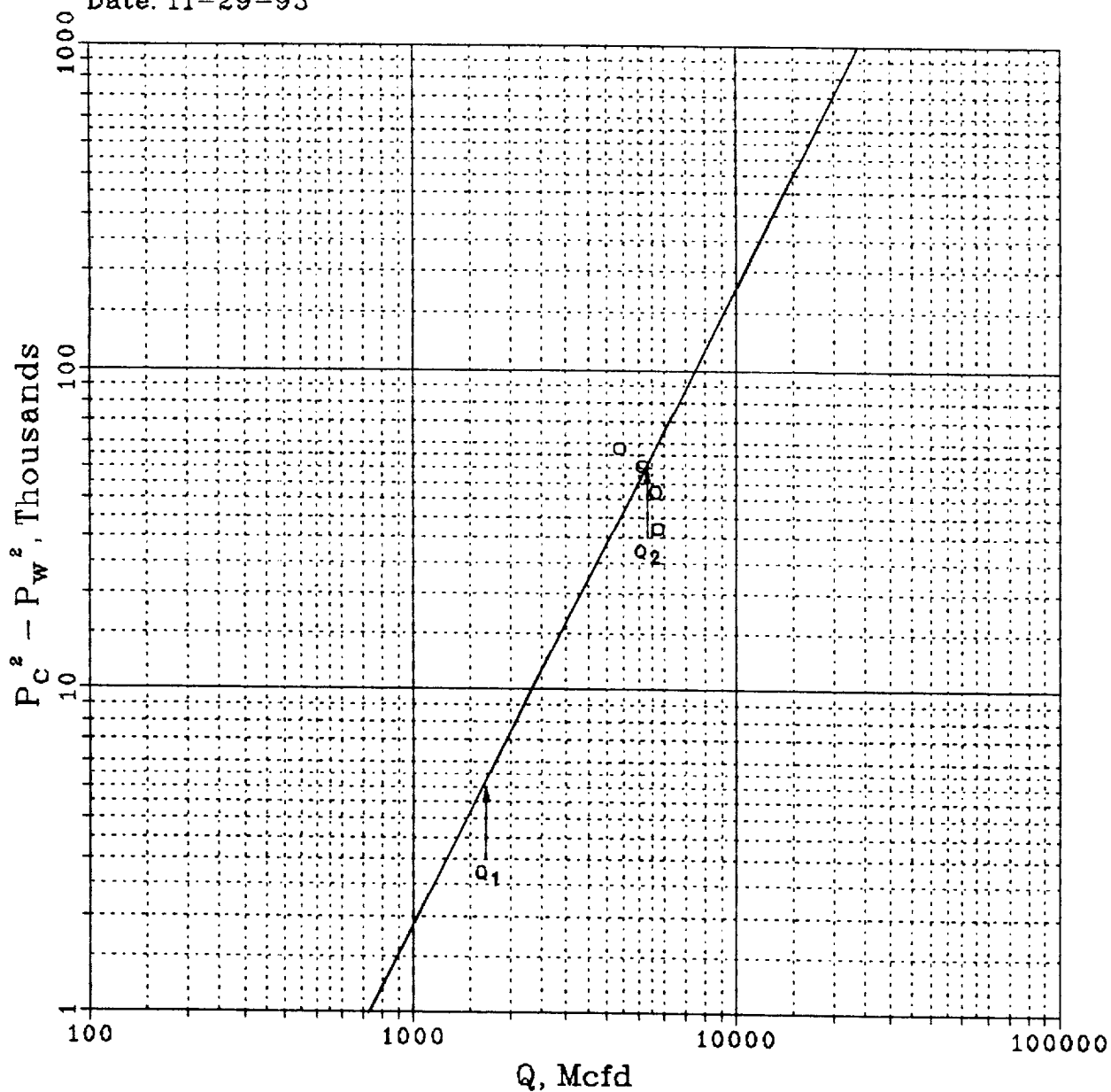
CONDUCTED BY:

CALCULATED BY:

CHECKED BY:

GAS WELL
BACK PRESSURE TEST

Company: Amoco Production Company
Well: 2133281G
Field/Pool: Bravo Dome
County: Harding
Date: 11-29-93



$$\begin{aligned} Q_1 &= 1684. \text{ Mcfd}; & \text{LOG } Q_1 &= 3.22623 \\ Q_e &= 5324. \text{ Mcfd}; & \text{LOG } Q_e &= 3.72625 \\ n &= 0.50002 = 0.500 \end{aligned}$$