

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

Form C-122

UNIT : BDCDGU
 LEASE :
 WELL : 2033201G
 S/T/R : 20,20,33
 COUNTY: HARDING
 STATE : NEW MEXICO

TYPE TEST: 4 POINT
 : INITIAL
 TEST DATE: 12/29/93

COMPANY: AMOCO PRODUCTION COMPANY
 FIELD: BRAVO DOME POOL: N/A
 COMPLETED 10-08-93 TD = 2538.
 CSG SIZE = 4.5000 WT = 4.56
 TBG SIZE = 0.0000 WT = 0.00
 TYPE COMPLETION: SINGLE
 PRODUCING THROUGH: OPENHOLE

CONNECTION: BRAVO DOME PLANT
 RESERVOIR: TUBB
 PBD = 2523. ELEV = 5037.
 SET AT 2460. PERF: 2471.- 2533.
 SET AT 0. PERF: 0.- 0.
 PACKER SET AT: 0.

RESERVOIR TEMP., F = 95. @ 2538. FT. BARO. PRESS = 12.20 PSIA
 MEAN GROUND TEMP., F = 50.

L	H	G	% CO2	% N2	% H2S	PROVER	M-RUN	TAPS
2538.	2538.	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						0.		195.	50.	24.0
1	3.98 X	2.000	179.	12.0	60.	0.	0.	179.	60.	1.0
2	3.98 X	2.000	151.	37.0	62.	0.	0.	151.	62.	1.0
3	3.98 X	2.500	119.	22.0	62.	0.	0.	119.	62.	1.0
4	3.98 X	2.500	88.	39.0	62.	0.	0.	89.	62.	1.0

NO.	COEFFICIENT (24 - HOUR)	SQRT. (HWPM)	PRESS. PM	T-FACTOR F(T)	G-FACTOR F(G)	SC-FACTOR F(PV)	FLOW MCFD
1	19.85	47.90	191.2	1.0000	0.8092	1.0567	813.
2	19.85	77.71	163.2	0.9981	0.8092	1.0478	1305.
3	32.78	53.73	131.2	0.9981	0.8092	1.0379	1476.
4	32.78	62.51	100.2	0.9981	0.8092	1.0285	1702.

NO.	P(R)	TEMP. R	T(R)	Z	GAS LIQ RATIO, MCF/BBL	0.000
1	0.31	520.	0.80	0.896	API G OF HYDROCARBONS	0.0
2	0.26	522.	0.81	0.911	SP G SEPARATOR GAS	1.527 XXXXX
3	0.21	522.	0.81	0.928	SP G FLOWING FLUID	XXXXX 1.527
4	0.16	522.	0.81	0.945	CRITICAL PRES., PSIA	626. 626.
					CRITICAL TEMP., R	648. 648.

NO.	PT*PT	PW	PW*PW	PC*PC - PW*PW	PC =	207.4
1	37.	191.	37.	6.	PC*PC =	43.
2	27.	163.	27.	16.	PC*PC/(PC*PC-PW*PW) =	1.3119
3	17.	131.	17.	26.	(PC*PC/(PC*PC-PW*PW))**N =	1.1454
4	10.	101.	10.	33.	AOE (MCF/DAY) =	1949.

CALC WH OPEN FLOW = 1949. MCFD @ 15.025; SLOPE ANGLE = 63.4; N = 0.500

REMARKS: AVERAGE HOURS PRODUCED/DAY: 24.00

APPROVED BY
 COMMISSION:

CONDUCTED BY:

Billy E. Pruhue

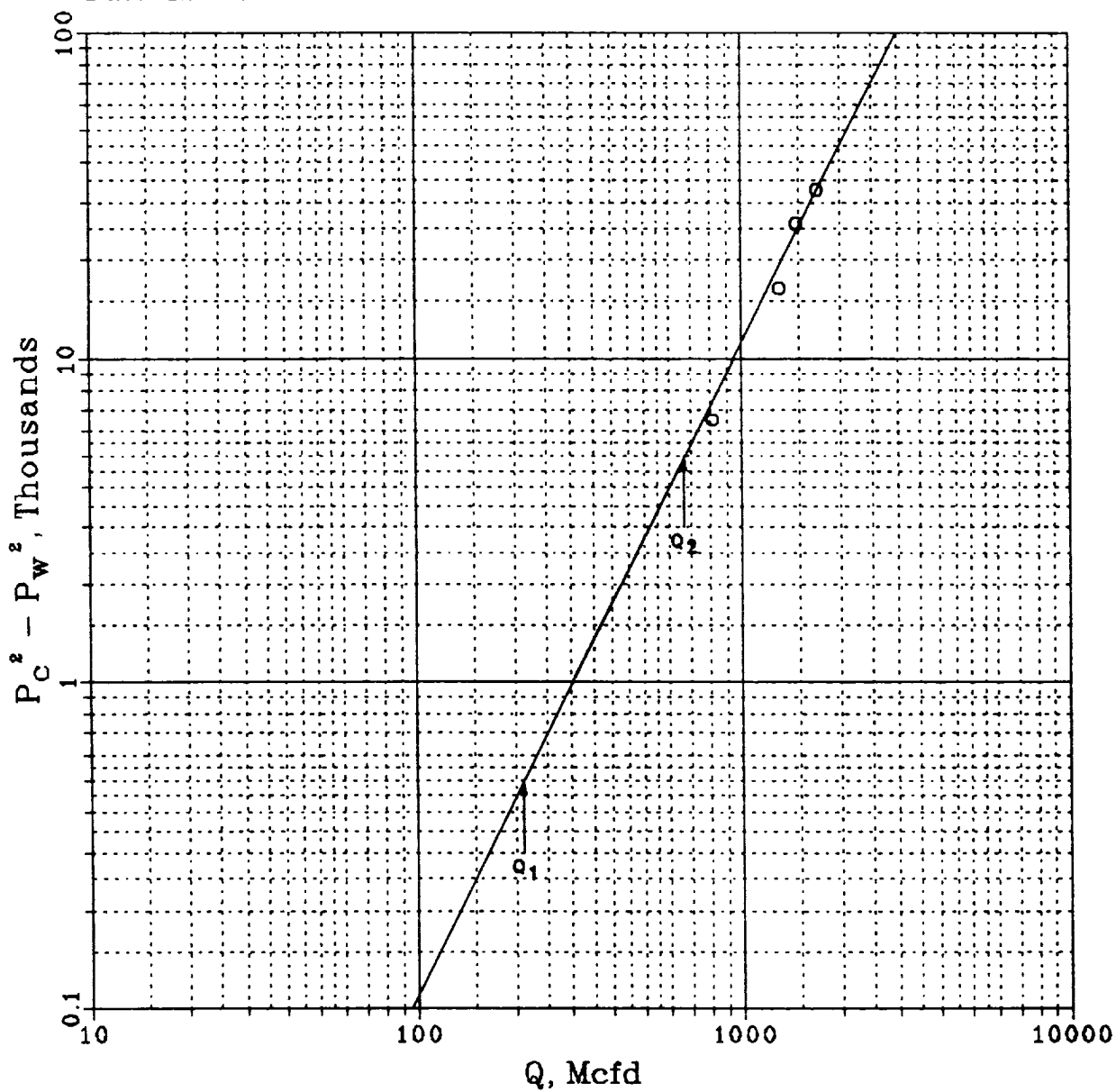
CALCULATED BY:

CHECKED BY:

[Signature]

GAS WELL
BACK PRESSURE TEST

Company: Amoco Production Company
Well: 2033201G
Field/Pool: Bravo Dome
County: Harding
Date: 12-29-93



$$\begin{aligned} Q_1 &= 210. \text{ Mcfd; } \text{LOG } Q_1 = 2.32257 \\ Q_2 &= 665. \text{ Mcfd; } \text{LOG } Q_2 = 2.82258 \\ n &= 0.50002 = 0.500 \end{aligned}$$