

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

UNIT : BDCDGU
LEASE :
WELL : 2033281G
S/T/R : 28,20,33
COUNTY: HARDING
STATE : NEW MEXICO

TYPE TEST: 4 POINT
: INITIAL
TEST DATE: 12/22/93

COMPANY: AMOCO PRODUCTION COMPANY
FIELD: BRAVO DOME POOL: N/A
COMPLETED 10-08-93 TD = 2471.
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 = 2441. ELEV = 4958.
SET AT 2390. PERF: 0. 0.
SET AT 0. PERF: 0. 0.
PACKER SET AT: 0.

RESERVOIR TEMP., F = 95. @ 2471. FT. BARO. PRESS = 12.20 PSIA
MEAN GROUND TEMP., F = 50.

L	H	G	% CO2	% N2	% H2S	PROVER	M-RUN	TAPS
2471.	2471.	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	1.500	179.	4.0	51.	0.	0.	186.	50.	24.0
2	3.98 X	1.500	148.	58.0	59.	0.	0.	180.	51.	1.0
3	3.98 X	2.500	118.	13.0	60.	0.	0.	150.	59.	1.0
4	3.98 X	2.500	89.	21.0	60.	0.	0.	118.	60.	1.0
								90.	60.	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	10.85	27.72	191.2	1.0088	0.8092	1.0567	259.
2	10.85	96.39	160.2	1.0010	0.8092	1.0468	887.
3	32.79	41.14	130.2	1.0000	0.8092	1.0376	1132.
4	32.79	46.10	101.2	1.0000	0.8092	1.0288	1258.

NO.	P(R)	TEMP. R	T(R)	Z		
1	0.31	511.	0.79	0.896	GAS LIQ RATIO, MCF/BBL	0.000
2	0.26	519.	0.80	0.912	API G OF HYDROCARBONS	0.0
3	0.21	520.	0.80	0.929	SP G SEPARATOR GAS	1.527
4	0.16	520.	0.80	0.945	SP G FLOWING FLUID	XXXXX
					CRITICAL PRES., PSIA	626.
					CRITICAL TEMP., R	648.

NO.	PT*PT	PW	PW*PW	PC*PC - PW*PW		
1	37.	192.	37.	2.	PC =	198.4
2	26.	162.	26.	13.	PC*PC =	39.
3	17.	130.	17.	22.	PC*PC/(PC*PC-PW*PW) =	1.3608
4	10.	102.	10.	29.	(PC*PC/(PC*PC-PW*PW))**N =	1.2138
					AOE (MCF/DAY) =	1527.

CALC WH OPEN FLOW = 1527. MCFD @ 15.025; SLOPE ANGLE = 57.8; N = 0.629

REMARKS:

AVERAGE HOURS PRODUCED/DAY: 24.00

APPROVED BY
COMMISSION:

CONDUCTED BY:

Billy E. Krummel

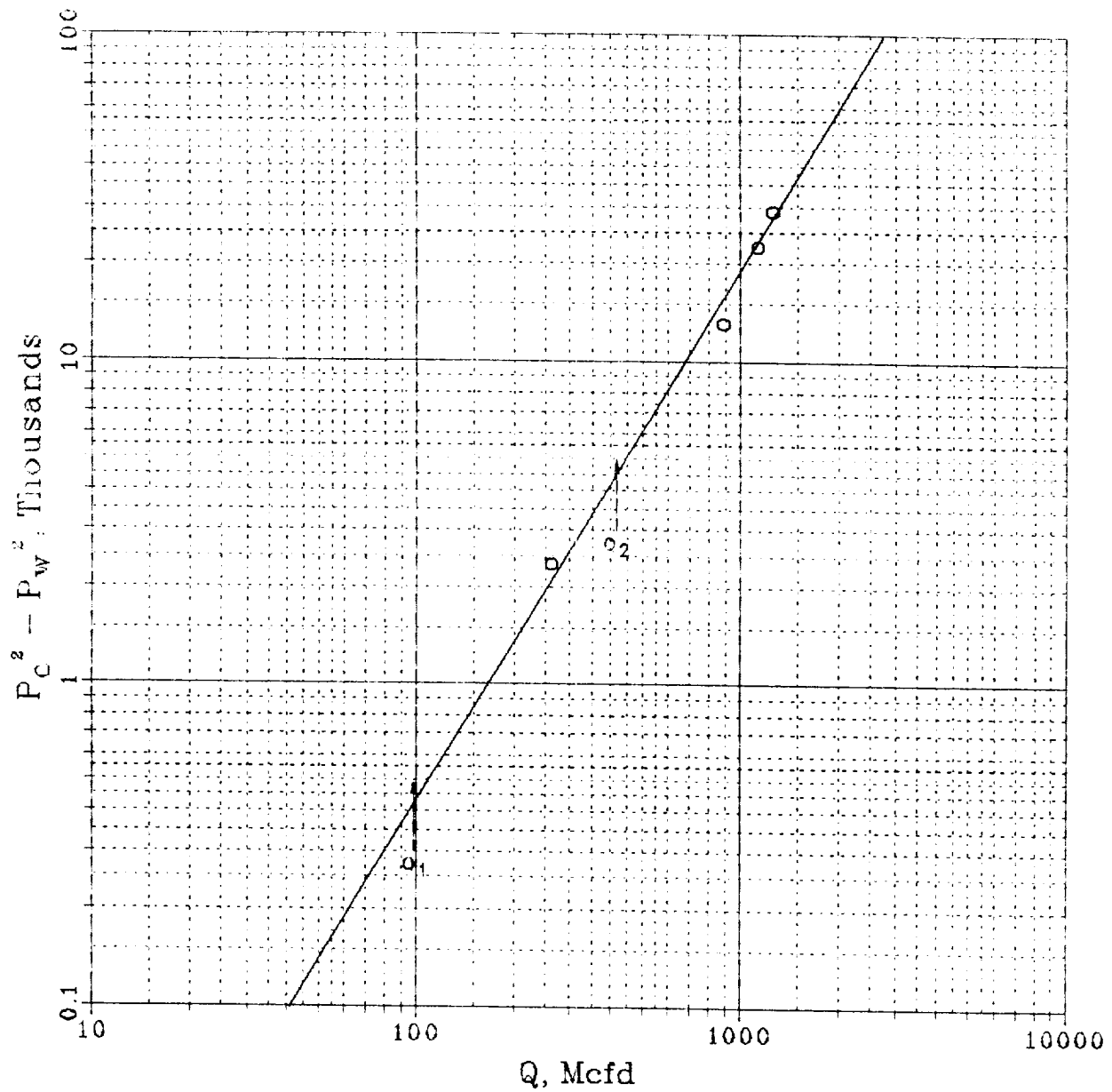
CALCULATED BY:

CHECKED BY:

11/11/93

GAS WELL BACK PRESSURE TEST

Company: Amoco Production Company
Well: 2033281G
Field/Pool: Bravo Dome
County: Harding
Date: 12-22-93



$$\begin{aligned}
 Q_1 &= 98. \text{ Mcfd}; \quad \text{LOG } Q_1 = 1.99141 \\
 Q_2 &= 417. \text{ Mcfd}; \quad \text{LOG } Q_2 = 2.62035 \\
 n &= 0.62895 = 0.629
 \end{aligned}$$