

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

Form C-122

UNIT : BDCDGU  
 LEASE :  
 WELL : 2233321K  
 S/T/R : 32,22,33  
 COUNTY: UNION  
 STATE : NEW MEXICO

TYPE TEST: 4 POINT  
 : INITIAL  
 TEST DATE: 9/24/93

COMPANY: AMOCO PRODUCTION COMPANY  
 FIELD: BRAVO DOME POOL: N/A  
 COMPLETED 07-20-93 TD = 3506.  
 CSG SIZE = 5.5000 WT = 14.00  
 TBG SIZE = 2.8750 WT = 1.70  
 TYPE COMPLETION: SINGLE  
 PRODUCING THROUGH: TUBING

CONNECTION: BRAVO DOME PLANT  
 RESERVOIR: TUBB  
 PBD = 3310. ELEV = 4930.  
 SET AT 3506. PERF: 2361.- 2426.  
 SET AT 2338. PERF: 0.- 0.  
 PACKER SET AT: 2308.

RESERVOIR TEMP., F = 95. @ 3506. FT.      BARO. PRESS = 12.20 PSIA  
 MEAN GROUND TEMP., F = 50.

L	H	G	% CO2	% N2	% H2S	PROVER	M-RUN	TAPS
3506.	3506.	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						268.	50.	0.		24.0
1	4.03 X	2.375	186.	20.2	60.	184.	60.	0.	0.	1.0
2	4.03 X	2.375	151.	33.9	60.	149.	60.	0.	0.	1.0
3	4.03 X	2.375	121.	48.8	59.	121.	59.	0.	0.	1.0
4	4.03 X	2.375	88.	72.5	57.	90.	57.	0.	0.	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	28.97	63.27	198.2	1.0000	0.8092	1.0590	1571.
2	28.97	74.29	162.8	1.0001	0.8092	1.0477	1825.
3	28.97	80.65	133.3	1.0012	0.8092	1.0385	1966.
4	28.97	85.44	100.7	1.0028	0.8092	1.0287	2067.

NO.	P(R)	TEMP. R	T(R)	Z	GAS LIQ RATIO, MCF/BBL	0.000
1	0.32	520.	0.80	0.892	API G OF HYDROCARBONS	0.0
2	0.26	520.	0.80	0.911	SP G SEPARATOR GAS	1.527
3	0.21	519.	0.80	0.927	SP G FLOWING FLUID	XXXXX
4	0.16	517.	0.80	0.945	CRITICAL PRES., PSIA	626.
					CRITICAL TEMP., R	648.

NO.	PT*PT	PW	PW*PW	PC*PC - PW*PW	PC =	280.5
1	38.	197.	39.	40.	PC*PC =	79.
2	26.	164.	27.	52.	PC*PC/(PC*PC-PW*PW) =	1.1678
3	18.	136.	19.	60.	(PC*PC/(PC*PC-PW*PW))**N =	1.0837
4	10.	106.	11.	67.	AOE (MCF/DAY) =	2239.

CALC WH OPEN FLOW = 2239. MCFD @ 15.025; SLOPE ANGLE = 62.6; N = 0.518

REMARKS: AVERAGE HOURS PRODUCED/DAY: 24.00

APPROVED BY  
 COMMISSION:

CONDUCTED BY:

*Billy E. Kula*

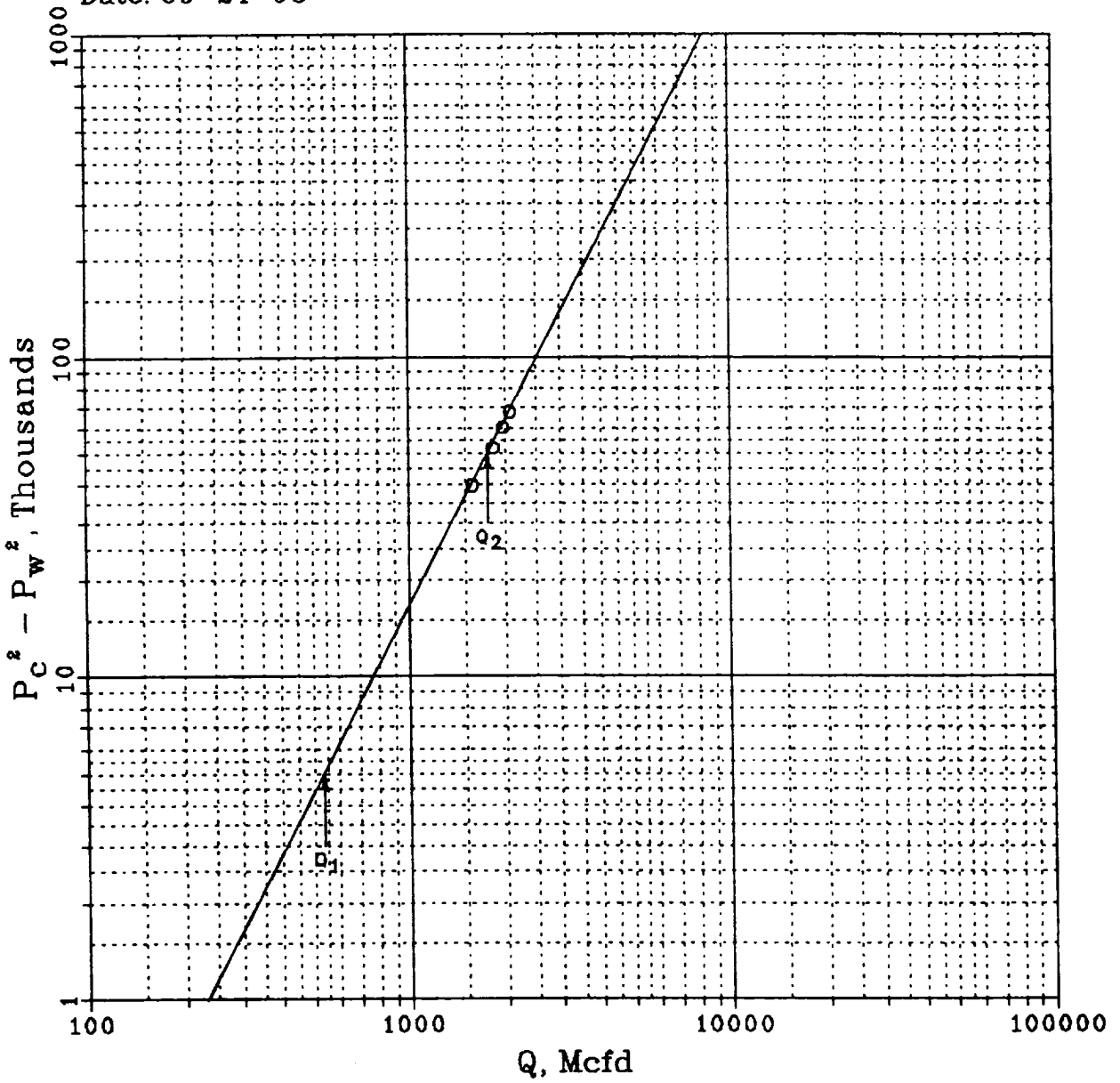
CALCULATED BY:

CHECKED BY:

*WJ Ford*

**GAS WELL  
BACK PRESSURE TEST**

Company: Amoco Production Company  
 Well: 2233321K  
 Field/Pool: Bravo Dome  
 County: Union  
 Date: 09-24-93



$$\begin{aligned}
 Q_1 &= 537. \text{ Mcfd}; & \text{LOG } Q_1 &= 2.72993 \\
 Q_2 &= 1770. \text{ Mcfd}; & \text{LOG } Q_2 &= 3.24809 \\
 n &= 0.51815 = 0.518
 \end{aligned}$$