

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

Form C-122
 Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 8-24-87	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome		Formation: Tubb	
Completion Date: 9-17-84		Total Depth: 2796'	Plug Back TD: 2545'
		Elevation: 4724'	
Csg. Size: 7"	Wt.: 20#	d: 6.456"	Set At: 2796'
Perforations: From 2509' To 2562'		Well No.: 1834-291G	
Tub. Size: 3.5"	Wt.: 9.5#	d: 3.00"	Set At: 2396'
Perforations: From To		Unit: G Sec. 29 Twp. 18 Rye. 34	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple		Packer Set At: 2365'	County: Union
Producing Thru Tubing	Reservoir Temp. °F: 90	Mean Annual Temp. °F: 50	Baro. Press. - P _g : 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							227				24 hr.
1.	4.026 x	0.50	188	1	45	188	45	0			1 hr.
2.	4.026 x	0.50	164	2	50	164	50	0			1 hr.
3.	4.026 x	0.50	143	5	54	143	54	0			1 hr.
4.	4.026 x	0.50	121	10	55	121	55	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, Mcfd
1							14
2							18
3							27
4							36
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					0		1.529	XXXXXX	1072	496
2.										
3.										
4.										
5.										

P _c 239.25	P _c ² 57240	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5333$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5333$
NO. 1	P _w 200.25	P _w ² 40100	P _c ² - P _w ² 17140
2	176.25	31064	26176
3	155.25	24103	33137
4	133.25	17756	39484
5			

Absolute Open Flow: 46 Mcfd @ 15.025		Angle of Slope: 45.0	Slope, n: 1.0
Remarks:			
Approved by Commission: Conducted By: RANDY MAHANNAH Calculated By: RICHARD ROETH Checked By:			

**BRAVO DOME
AOF TESTING DATA SHEET**

TEST DATE: 8/24/87
WELL NO.: BDDDGW 1834 291G

SHUT-IN TBG PRESSURE: 227
30 MIN. SHUT-IN TBG PRESSURE: 187

RATE NO. 1

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TESTED McFD Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	190	28	0.500	190	4	49
15	188	14		188	1	44
30	188	14		188	1	44
45	188	14		188	1	45
60	188	14		188	1	45

RATE NO. 2

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TESTED McFD Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	164	26	0.500	164	4	45
15	164	18		164	2	45
30	164	18		164	2	45
45	164	18		164	2	47
60	164	18		164	2	50

RATE NO. 3

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TESTED McFD Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	141	24	0.500	141	4	49
15	141	24		141	4	52
30	142	27		142	5	54
45	143	30		143	6	55
60	143	27		143	5	54

RATE NO. 4

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TESTED McFD Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	121	32	0.500	121	8	54
15	121	32		121	8	54
30	121	36		121	10	54
45	121	36		121	10	55
60	121	36		121	10	55

BDCDGU No. 1834 291G

