NEW MEXICO OIL CONSERVATION COMMSSION

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		Unit: BDCDGU
Completion Date: 9-17-84	Total Depth: 2796'	Plug Back TD: 2545'	Elevation: 4724'
Farm or Lease Name:			
Csg. Size: 7" / Wt.: 20# / d: 6.456" / Set At: 2796'	Perforations: From 2509' To 2562'		Well No.: 1834-291G
Tbg. Size: 3.5" / Wt.: 9.5# / d: 3.00" / Set At: 2396'	Perforations: From To		Unit: G / Sec.: 29 / Twp.: 18 / Rge.: 34
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 2365'		County: Union
Producing Thru: Tubing	Reservoir Temp. °F: 90	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.25	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
			100	0	0		4.0	Flange

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							14
2.							18
3.							27
4.							36
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas 1.529 — XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 1072 P.S.I.A. ____ P.S.I.A.
Critical Temperature 496 R ____ R

P_c 239.25 P_c^2 57240

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		200.25	40100	17140
2		176.25	31064	26176
3		155.25	24103	33137
4		133.25	17756	39484
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5333$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5333$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 46$

Absolute Open Flow 46 Mcfd @ 15.025 | Angle of Slope θ 45.0 | Slope, n 1.0

Remarks:

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	RANDY MAHANNAH	RICHARD ROETH	

BRAVO DOME
AOF TESTING DATA SHEET

TEST DATE: 8/24/87
WELL NO.: BDCD64 1834 291G

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

RATE NO. 1

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	[redacted] McfD [redacted] Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H20)	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)	[redacted] McfD [redacted] Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H20)	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)	[redacted] McfD [redacted] Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H20)	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)	[redacted] McfD [redacted] Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H20)	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	34		121	10	55
60	121	34		121	10	55

BDCDGU No. 18342916