

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: 8-25-87	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome				Formation: Tubb	
Completion Date: 2-19-84		Total Depth: 2802		Plug Back TD: 2520	
Elevation: 4680		Farm or Lease Name:			
Coq. Size: 7	Wt.: 20#	d: 6.456	Set At: 2802	Perforations: From 2483 To 2506	
Well No.: 1834-331G					
Tag. Size: 3.5	Wt.: 9.5#	d: 3.00	Set At: 2441	Perforations: From To	
Unit: G Sec. 33 Twp. 18 Rge. 34					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: 2403'	
Single				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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	4.026 x	1.00	218	7	60	218	60	0			24 hr.
2.	4.026 x	1.00	195	11	66	195	66	0			1 hr.
3.	4.026 x	1.00	165	14	67	165	67	0			1 hr.
4.	4.026 x	1.00	140	19	67	140	67	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, Mc/d
1.							159
2.							189
3.							197
4.							213
5.							

NO.	P _f	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					0	
2.						
3.						
4.						
5.						

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas: 1.529 Specific Gravity Flowing Fluid: X X X X X Critical Pressure: 1072 P.S.I.A. Critical Temperature: 496 R			
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$P_c = 343.25$ $P_c^2 = 117820$	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.334$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.25$																														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>F₁²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1.</td> <td></td> <td>230.25</td> <td>53015</td> <td>64805</td> </tr> <tr> <td>2.</td> <td></td> <td>207.25</td> <td>42952</td> <td>74868</td> </tr> <tr> <td>3.</td> <td></td> <td>177.25</td> <td>31417</td> <td>86403</td> </tr> <tr> <td>4.</td> <td></td> <td>152.25</td> <td>23180</td> <td>94640</td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	NO.	F ₁ ²	P _w	P _w ²	P _c ² - P _w ²	1.		230.25	53015	64805	2.		207.25	42952	74868	3.		177.25	31417	86403	4.		152.25	23180	94640	5.					$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 250$	
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Absolute Open Flow: 250 Mc/d @ 15.025	Angle of Slope θ: 52.24	Slope, n: 0.7746
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Remarks:			

Approved by Commission:	Conducted By: RANDY MAHANNAH	Calculated By: RICHARD ROETH	Checked By:
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**BRAVO DOME
AOF TESTING DATA SHEET**

TEST DATE: 8/25/87
WELL NO.: BDCDGN 1834 331G

SHUT-IN TBG PRESSURE: 331
30 MIN. SHUT-IN TBG PRESSURE: 289

RATE NO. 1

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TEMP. McFD Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	218	170	1.000"	218	8	60
15	218	159		218	7	60
30	218	159		218	7	60
45	218	159		218	7	60
60	218	159		218	7	60

RATE NO. 2

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TEMP. McFD Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	195	197	1.000"	195	12	59
15	195	189		195	11	61
30	195	189		195	11	63
45	195	189		195	11	65
60	195	189		195	11	66

RATE NO. 3

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TEMP. McFD Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	165	210	1.000	165	16	67
15	165	197		165	14	67
30	165	197		165	14	66
45	165	197		165	14	67
60	165	197		165	14	67

RATE NO. 4

TIME (MIN.)	FLOWING TBG. PRESS. (PSIG)	TEMP. McFD Rate	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
0	140	207	1.000	140	18	65
15	140	213		140	19	66
30	140	218		140	20	66
45	140	213		140	19	67
60	140	213		140	19	67

BDCDGU No. 13343810

