

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: 8-28-87	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome				Formation: Tubb	
Completion Date: 11-15-83		Total Depth: 2800		Plug Back TD: 2700	
Elevation: 4695		Farm or Lease Name:			
Csg. Size: 7"	Wt.: 20#	d: 6.456	Set At: 2800	Perforations: From 2422 To 2490	
Perforations: From 2422 To 2490	Well No.: 1835-161M				
Tsq. Size: 3.5"	Wt.: 9.5#	d: 3.00	Set At: 2374	Perforations: From To	
Type Well - Single - Fracnhead - G.G. or G.O. Multiple: Single				Packer Set At: 2343'	
Producing Thru: Tubing				Reservoir Temp. °F: 90	
Mean Annual Temp. °F: 50				Baro. Press. - P _a : 12.25	
State: New Mexico				County: Union	
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
SI							372		0		24 hr.
1.	4.026 x	1.625	187	47	61	190	61	0	0		24 hr.
2.	4.026 x	1.625	201	38	61	203	61	0	0		24 hr.
3.	4.026 x	1.625	214	31	60	216	60	0	0		24 hr.
4.	4.026 x	1.625	244	15	60	246	60	0	0		24 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.							1074
2.							1001
3.							929
4.							713
5.							

NO.	P _t	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		1072	496
2.										
3.										
4.										
5.										

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1.	202.25	40905	106743	
2.	215.25	46332	101316	
3.	228.25	52098	95550	
4.	258.25	66693	80955	
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.50$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.50$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1500$

Absolute Open Flow: 1500 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:
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BRAVO DOME
AOF TESTING DATA SHEET

TEST DATE: 8/28/87
WELL NO.: SDSDGU 1835 161/11

SHUT-IN TBG PRESSURE: 372
30 MIN. SHUT-IN TBG PRESSURE:

RATE NO. 1

Day 1	FLOWING TBG. PRESS. (PSIG)	Rate Mcf/D	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
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24 hrs	190	1074	1.625	187	47	61
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RATE NO. 2

Day 2	FLOWING TBG. PRESS. (PSIG)	Rate Mcf/D	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
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24 hrs	203	1001	1.625	201	38	61
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RATE NO. 3

Day 3	FLOWING TBG. PRESS. (PSIG)	Rate Mcf/D	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
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24 hrs	216	929	1.625	214	31	60
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RATE NO. 4

Day 4	FLOWING TBG. PRESS. (PSIG)	Rate Mcf/D	ORIFICE SIZE (IN.)	STATIC PRESSURE (PSIG)	DIFFERENTIAL PRESSURE (IN. H2O)	METER TEMP. (F)
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24 hrs	246	713	1.625	244	15	60
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BDCD GU No. 1835 161M

