

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: 8-12-87	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome				Formation: Tubb	
Completion Date: 4-17-81		Total Depth: 2850		Plug Back TD: 2473	
Elevation: 4968		Farm or Lease Name:			
Csg. Size: 5.50	Wt. 14#	d 5.012	Set At 2850	Perforations: From 2430 To 2467	
Tub. Size: 2.875	Wt. 6.5#	d 2.441	Set At 2314	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At 2288	
Producing Thru Tubing				Reservoir Temp. °F 90	
Mean Annual Temp. °F 50				Baro. Press. - P _g 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							282				24 hr.
1.	4.026	x	0.50	200	1	65	200	65	0		1 hr.
2.	4.026	x	0.50	175	7	66	175	66	0		1 hr.
3.	4.026	x	0.50	150	32	65	150	65	0		1 hr.
4.	4.026	x	0.50	125	108	62	132	62	0		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							14
2							36
3							71
4							120
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										

F _c 294.25	P _c ² 86583	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0847$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 28.207$
NO. 1	P _w ² 212.25	P _w ² 45050	P _c ² - P _w ² 41533
2	187.25	35063	51520
3	162.25	26325	60258
4	137.25	18838	67745
5			

Absolute Open Flow 395 Mcfd @ 15.025		Angle of Slope 77.6	Slope, n 4.546
Remarks: Due to low flow rates and possible liquid production, I believe this is as good a test as possible.			
Approved by Commission:	Conducted By: RANDY MAHANNAH	Calculated By: RICHARD ROETH	Checked By: