

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 2-20-86		MAR 0 7 1986	
Company BHP Petroleum (Americas), Inc.				Connection		FORM. DIV. 1	
Pool Basin Dakota				Formation Dakota		DIST. 3	
Completion Date 2-20-86		Total Depth 6606'		Plug back TD 6531'		Elevation	
Farm or Lease Name Brannon Federal				Well No. 2-E			
Csg. Size 4-1/2"	Wt. 10.5	d 4.052	Set At 6605	Perforations: From 6405 To 6443		Unit Sec. Twp. Rge. K 29 25N 9W	
Tbg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 6447	Perforations: From To		County San Juan	
Type Well - Single - Braedenhead - G.G. or G.O. Multiple Single				Packer Set At		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps

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							1640	---	1610	---	7 days
1.	4"		2.5"				640		280		3 hrs.
2.											
3.											
4.											
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	129.01	x 3.4 x	4.0				1754
2.	(meter coef)	(static)	(dif)				
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio 438.5 Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons N/A Deg.
2.					Specific Gravity Separator Gas N/A XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure P.S.I.A. P.S.I.A.
5.					Critical Temperature R R

P _c 1652	P _c ² 2929104	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1845$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1354$
NO.	P _t ²	P _w	P _w ²
1		652	425,104
2			
3			
4			
5			

Absolute Open Flow 1992 Mcfd @ 15.025		Angle of Slope θ	Slope, n 0.75
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Remarks: Well flowed thru a 1/2" choke into separator. Gas gauged thru an orifice meter.

Approved By Commission:	Conducted By: Ted's Field Service	Calculated By: Paul C. Bertoglio	Checked By:
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