

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
OCT 25 1985

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 7-31-85		OIL CON. DIV. DIST. 3	
Company: BHP Petroleum (Americas) Inc.				Connection:			
Pool: West Kutz Pinon				Formation: Fruitland		Unit: Gallegos Canyon Unit	
Completion Date: 7-19-85		Total Length: 1215		Plug Back TD: 1175		Elevation: GR-5469	
Csg. Size: 4.5	Wt.: 10.5	d: 4.052	Set At: 1215	Perforations: From 1066 To 1125		Well No.: 356	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 1054	Perforations: From To		Unit Sec. Twp. Hqse.: G 19 29N 12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: <u>Single</u>				Packer Set At:		County: San Juan	
Producing Thru Tubing:		Reservoir Temp. °F: @		Mean Annual Temp. °F:		Baro. Press. - P _a : 12	
State: New Mexico							
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							340		340		7 days
1.			3/4"	70			70		70		3
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	14.1605		82	0.9905	0.9608	1.0062	1112
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas <u>N/A</u> <u>X X X X X X X X</u>
3.					Specific Gravity Flowing Fluid <u>X X X X X</u>
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c <u>352</u>	P _c ² <u>123,904</u>		
NO.	P _r ²	P _w	P _w ²
1		82	6724
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0574$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0486$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1166$$

Absolute Open Flow <u>1166</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>0.85</u>
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Remarks: Flow calculation assumes 0.65 gas gravity at 70°F. Fpw is based on A.G.A. Report No. 3.

Approved By Commission:	Conducted By: T. C. Durham	Calculated By: Paul Bertoglio <i>PB</i>	Checked By:
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