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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <u>McKay Oil Corporation</u>				Lease or Unit Name <u>Cactus Federal #4</u>			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date <u>3/5/01</u>		Well No. <u>#4</u>	
Completion Date <u>3/5/01</u>		Total Depth <u>3039'</u>		Plug Back TD <u>3005'</u>		Elevation <u>4245'</u>	
Casing Size <u>4 1/2</u>		WT. <u>11.6</u>		Set At <u>3030'</u>		Unit Ltr. - Sec. - TWP - Rgc. <u>S34, T6S, R23E</u>	
Tubg. Size <u>2 3/8</u>		WT. <u>4.7</u>		Set At <u>2767'</u>		County <u>Chaves</u>	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple <u>Single</u>		Packer Set At <u>---</u>		Formations <u>ABG</u>		Pool <u>West Pecos Slope</u>	
Producing Interval <u>298</u>		Reservoir Temp. °F <u>68</u>		Mean Annual Temp. °F <u>---</u>		Burn. Press. - P _u <u>13.2</u>	
L <u>11</u>		Fig <u>---</u>		%CO ₂ <u>---</u>		%N ₂ <u>---</u>	
%H ₂ S <u>---</u>		Prover <u>---</u>		Motor Run <u>---</u>		Taps <u>---</u>	

FLOW DATA					TUBING DATA		CASING DATA		Duration Of Flow
No.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI									
1	2000 x .70		141	117.06	68°				
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 F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.							
2.							
3.							
4.							
5.							

No.	P _u	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1.						
2.						
3.						
4.						
5.						

No.	P _u	P _w	P _a	P _u ² - P _w ²	(1) $\frac{P_u}{P_u^2 - P_w^2}$	(2) $\left[\frac{P_u^2}{P_u^2 - P_w^2} \right]^n$
1.						
2.						
3.						
4.						
5.						

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

Absolute Open Flow		Mcfd @ 15.025	Angle of Slope θ:	Slope, n:
Remarks:				
Approved By Division	Conducted By:	Calculated By:	Checked By:	

1 HR Flow Rate = 4386 McF