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appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION JUN 24 1997
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Santa Fe Energy						Lease or Unit Name Craft					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/5/97		Well No. 1			
Completion Date		Total Depth		Plug Back TD 11840		Elevation		Unit Ltr. - Sec. - TWP - Rge. 13-24S-28E			
Csg. Size	Wt.	d	Set At	Perforations:				Country			
7-5/8	39#			From: 10834 To: 10975				Eddy			
Tbg. Size	Wt.	d	Set At	Perforations:				Pool			
2-7/8	6.5	2.441	10,695	From: To:				NW Pierce Brosnan			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10695		Formation Morrow			
Producing Thru TGB		Reservoir Temp. °F 180.9		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Sales			
L 10695	H 10695	Gg .665	% CO ₂ .21	% N ₂ .65	% H ₂ S -0-	Prover -0-	Meter Run 3.026	Taps FLG			

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.	Temp. °F	
1.	3.068 X .500		690	35"	66°	2230	70°	Pkr		24 hrs
2.										
3.										
4.										
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.	1.183	156.9	703.2	.9943	1.226	1.054	238
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.78	526	1.40	.901	28.675	
2.					64.5	
3.					.758	XXXXXXXXXX
4.					64.5	XXXXXX
5.					673	PSIA 670 PSIA
					374	R 407 R

P _c 5513.2 P _w 30395.4				
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1.	5031.9	2243.3	5032.6	25362.8
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.198$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 285$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.198$

Absolute Open Flow 285 Mcfd @ 15.025	Angle of Slope Θ 45°	Slope, n 1.000
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Remarks: ***Well made 8.3 BBLS of 64.5 API Gravity Cond.**

Approved By Division	Conducted By: Pro Well Tester	Calculated By: MB	Checked By: BM
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