

Type Test ☒ Initial 4 POINT ☐ Annual ☐ Special		Test Date 6-2 RECEIVED 1980 FNL	
Company CLEMENTS ENERGY Inc.		Connection AIR NEW WELL	
Location Penn.		Formation Penn. MORROW	
Completion Date 6-18-82		Total Depth 6940'	
Log Back TD 6870'		Elevation O.C.D. ARTESIA OFFICE 3455' KB	
Well No. 1		Form or Lease Name DRUMM Penn	
Well Size 4.500		Well Depth 6940'	
Well Size 2.375		Well Depth 6760'	
Type Well - Single - Broadhead - G.C. or G.O. Multiple SINGLE		Packer Set At 6619	
Producing Time TUBING		Baro. Press. - P _a 13.2	
Reservoir Temp. °F 132		Mean Annual Temp. °F 60°	
L 6726		H 6726	
G _g .6986		% CO ₂ 2.189	
		% H ₂ 5.023	
		% H ₂ S	
Prover 2.000		Meter Run	
Page			

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow	
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		CHOKE
1	2.000	X	.0625	1722	.00	85	1773	83	2144		144
2	2.000	X	.125	1512	.00	80	1722	82	2084		1 HR.
3	2.000	X	.1875	1106	.00	83	1512	81	1854		1 HR.
4	2.000	X	.21875	865	.00	87	1106	80	1472		1 HR.
5							865	81	1168		1 HR.

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 _{sp}	Rate of Flow Q, Mcfd
1	0.06405	0.00	1735.2	.9768	1.196	1.147	149
2	0.2648	0.00	1525.2	.9813	1.196	1.133	537
3	0.6083	0.00	1119.2	.9786	1.196	1.101	877
4	0.8393	0.00	878.2	.9750	1.196	1.078	926

NO	N	Temp. °H	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	2.60	545	1.45	.760			6986			
2	2.29	540	1.44	.779						
3	1.68	543	1.45	.825						
4	1.32	547	1.46	.860						

NO	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀
1		1715.8	2944.0	167.6						
2		1532.7	2349.1	762.5						
3		1227.6	1507.1	1604.5						
4		982.3	964.9	2146.7						

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.4495$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3098$	
$A_{OH} = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1212.9$			

Absolute Open Flow 1213		Mold # 15.025		Angle of Slope 54		Slope, n .727	
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Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: JOHN SIEGWEIN	Calculated By: BENNETT - CATHEY	Checked By:
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