NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-1
Revised 9-

RECEIVED
JUL 19 1982
O. C. D.
ARTESIA, OFFICE

Type Test: ☒ Initial FOUR POINT ☐ Annual ☐ Special				Test Date: 6-22-82	
Company: CLEMENTS ENERGY Inc.	Connection: AIR NEW WELL			Unit	
Pool: ~~UNDESIGNATED~~ Wildcat Penn.	Formation: Penn ~~MORROW~~				
Completion Date: 6-24-82	Total Depth: 7294'	Plug Back TD: 7109	Elevation: 3432 KB	Farm or Lease Name: KING 35 Com	
Csg. Size: 4.500 / Wt.: 11.600 / d: 4.000 / Set At: 7294'		Perforations: From 6925 To 7010'		Well No.: 1	
Tbg. Size: 2.375 / Wt.: 4.700 / d: 1.995 / Set At: 4979		Perforations: From OPEN To ENDED		Unit: J / Sec.: 35 / Twp.: 14S / Rge.: 26E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 4978		County: CHAVES	
Producing Thru: TUBING	Reservoir Temp. °F: 166° 6971	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2	State: NEW MEXICO	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6925	7008	.656	.26	1.45			4.028	FLANGE

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	B.H.P. DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1942		1942		66.80 HR
1	4.028 X 1.00	425	16.5	99	1894	64	2528		1
2	4.028 X 1.00	421	45.5	104	1860	65	2481		1
3	4.028 X 2.00	420	9.5	94	1706	66	2448		1
4	4.028 X 2.00	405	12.0	63	1692	67	2328		1
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	.48740	85.03	438.2	.9645	1.2347	1.0342	510
2	4.8740	140.56	434.2	.9602	1.2347	1.0325	839
3	20.3200	64.15	433.2	.9688	1.2347	1.0342	1613
4	20.3200	70.84	418.2	.9977	1.2347	1.0420	1847
5							

NO.	P_t	Temp. °R	T_t °F	Z
1	.66	559	1.51	.935
2	.65	564	1.52	.938
3	.65	554	1.50	.935
4	.63	523	1.41	.921
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .6560 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .6520
Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
Critical Temperature 370 R _____ R

P_c 2588.2 P_c^2 6698.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2541.2	6457.7	241.0
2		2494.2	6221.0	478.0
3		2461.2	6057.5	641.0
4		2341.2	5481.2	1218.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4998$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.8924$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7,189.3$ Mcfd

Posted FD-2
7-30-82
comp + BR

Absolute Open Flow 7,189.3 Mcfd @ 15.025 | Angle of Slope θ 51.4 | Slope, n .7972

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	RICHARD TOWNLEY	BENNETT-CATHEY	