NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF File

Type Test: ☒ Initial 4-POINT ☐ Annual ☐ Special			Test Date: 8-8-83		1980 FNL
Company: CLEMENTS ENERGY		Connection: AIR NEW WELL			1980 FEL
Pool: ~~UNDESIGNATED~~ W. Buffalo Valley - Penn		Formation: MORROW		AUG 10 1983	Unit
Completion Date: 7-31-83	Total Depth: ~~6834~~ 6900		Plug Back T.D.: ~~6824~~ 6857	Elevation: ~~3383~~ 3407 G.L.	Farm or Lease Name: DRUM A Com
Csg. Size: 5.500	Wt.: 17.0	d: 4.892	Set At: ~~6824~~ 6902	Perforations: From 6789 To 6795	Well No.: ~~1~~ 1
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: ~~6720~~ 6750	Perforations: From 0 To 0	Unit: G; Sec.: 33; Twp.: 14S; Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 6726		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 148 @ 6791		Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2	State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6791	6791	0.664	1.25	2.10	0	0	4.0	FLANGE

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	B.H.P. DATA: Press. p.s.i.g.	CHOKE	Duration of Flow
SI					1392		1937		1370.0
1.	4.03 X 0.500	350	5.5	108	1222	90	1746	3/64	1.0
2.	4.03 X 0.500	350	9.5	106	1097	92	1614	4/64	1.0
3.	4.03 X 0.500	360	17.0	105	920	88	1424	5/64	1.0
4.	4.03 X 0.500	360	22.0	104	595	88	1111	6.5/65	1.0
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Supcr Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1.18	44.69	363.2	0.9568	1.2272	1.0265	64
2	1.18	58.74	363.2	0.9585	1.2272	1.0269	84
3	1.18	79.65	373.2	0.9594	1.2272	1.0278	114
4	1.18	90.61	373.2	0.9602	1.2272	1.0279	130
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.54	568	1.53	0.949
2	0.54	566	1.53	0.948
3	0.56	565	1.52	0.947
4	0.56	564	1.52	0.946
5				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas 0.664 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.664
Critical Pressure 671 P.S.I.A. 671 P.S.I.A.
Critical Temperature 371 R 371 R

P_c 1624.6 P_c^2 2639

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	3095	1460	2133	507
2	2648	1354	1832	807
3	2066	1200	1439	1200
4	1264	944	892	1747
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5105$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2675$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 164$

Post ID-2
12-9-83
temp + BK

Absolute Open Flow 164 Mcfd @ 15.025 Angle of Slope θ 60.1 Slope, n 0.575

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission	Conducted By	Calculated By	Checked By
	RICHARD TOWNLEY	BENNETT & CATHEY	