

MAR 1 1971

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-10-71		O. C. C.	
Company David Fasken				Connection Not connected				ARTESIA, OFFICE	
Pool Atoka (Penn.)				Formation Morrow				Unit I	
Completion Date Feb. 10, 1971		Total Depth 9000		Plug Back TD 8965		Elevation 3451 ft.		Farm or Lease Name Brown-Yates Com.	
Csg. Size 4 1/2	Wt. 10.50	d 4.052	Set At 8999	Perforations: From 8823 To 8872		Well No. 1			
Tbg. Size 2 3/8	Wt. 4.70	d 1.995	Set At 8773	Perforations: From To		Unit I	Sec. 24	Twp. 18S	Rge. 25E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At Otis P.L. @ 8773'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 152 @ 8800		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L 8846	H 8846	Gg 0.621	% CO ₂	% N ₂	% H ₂ S	Prover 2	Meter Run	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	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
SI	96 hrs			2820							
1.	2" x	1/8"		2395		68	2395				2 hrs
2.	2" x	3/16"		1863		71	1863				2 1/2 "
3.	2" x	7/32"		1672		71	1672				1 1/2 "
4.	2" x	1/4"		1437		70	1437				1 1/2 "
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	0.2648		2408.2	0.9924	1.269	1.162	933
2	0.6082		1876.2	0.9887	1.269	1.153	1651
3	0.8395		1686.2	0.9887	1.269	1.143	2030
4	1.087		1450.2	0.9905	1.269	1.127	2233
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1	3.59	528	1.45	0.740	A.P.I. Gravity of Liquid Hydrocarbons	None	Deg.
2	2.80	531	1.45	0.752	Specific Gravity Separator Gas	0.621	xxxxxxx
3	2.51	532	1.45	0.765	Specific Gravity Flowing Fluid	xxxxx	Dry Gas
4	2.16	530	1.45	0.787	Critical Pressure	671 P.S.I.A.	P.S.I.A.
5					Critical Temperature	365 °R	°R

NO.	P _t ²	P _s X W	P _s ² X X	X _s ² - X _w ²
1		3106.2	9648	3538
2		2456.2	6033	7153
3		2236.2	5001	8185
4		1954.2	3819	9367

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

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

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

Absolute Open Flow	3250	Mcf/d @ 15.025	Angle of Slope @	45°	Slope, n	1.000
Remarks: BHP measured w/Amerada RPG-3 gauge						
Approved By Commission:	Conducted By:	Calculated By:	Checked By:			
	Tefteller, Inc.	Jim Jackson				