

RECEIVED

☒ Initial ☐ Annual ☐ Special		Test Date: 9/2/80		SEP 11 1980	
Company: <u>Tenneco Oil Co.</u>			Connection: <u>Hano Inc.</u>		
Foot: <u>Catclaw Draw Morrow</u>			Formation: <u>Morrow</u>		
Completion Date: 5/26/80		Total Length: <u>10,881' 10860</u>		Elevation: 3550'	
Casing Size: 5" Wt. 17		Set At: <u>10,858</u>		Perforations: From 10,737 To 10,766	
Tub. Size: 2 7/8" Wt. 6.5		Set At: 10,720		Perforations: From 10,716 To 10,720	
Type Well - Single - Protionhead - G.G. or G.O. Multiple: <u>Single</u>				Packor Set At: 10,710	
Producing Thru: 1-bp		Reservoir Temp. °F: 181		Mean Annual Temp. °F: 60	
Baro. Press. - P _a : 13.2		State: New Mexico		County: Eddy	
L: 10,700	H: 10,700	Gg: .595	% CO ₂ :	% N ₂ :	% H ₂ S:
Prover:			Meter Run: 4	Pipe: Flg	

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	
1.	4	X	.625	500	5	74	1369	76			1 hr
2.	4	X	.625	500	20	75	1358	76			30 min
3.	4	X	.625	500	82	75	1340	77			30 min
4.	4	X	1.00	500	50	70	1273	77			45 min
5.	4	X	1.00	500	90	60	1199	73			60 min

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, Mgd
1	1.845	50.66	513.2	.9868	1.296	1.039	124
2	1.845	101.31	513.2	.9859	1.296	1.039	248
3	1.845	205.14	513.2	.9859	1.296	1.039	502
4	4.753	160.19	513.2	.9905	1.296	1.040	1016
5	4.753	214.92	513.2	1.000	1.296	1.043	1381

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Met/Std.
1	.76	534	1.51	.926	A.P.I. Gravity of Liquid Hydrocarbons		Eq.
2	.76	535	1.51	.926	Specific Gravity Separator Gas	.595	X X X X X X X X
3	.76	535	1.51	.926	Specific Gravity Flowing Fluid	X X X X X	
4	.76	530	1.50	.924	Critical Pressure	672	P.S.I.A.
5	.76	520	1.47	.919	Critical Temperature	354	R

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 4.390$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.944$
1	1378.9	1901.4	48.0	$ACT = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4.066$	
2	1373.4	1886.2	63.2		
3	1355.5	1837.4	112.0		
4	1290.5	1665.4	284.0		
5	1226.9	1505.3	444.1		

Absolute Open Flow: 4,066	Mgd @ 45.025	Angle of Slope θ: 54	Slope, n: .730
Remarks:			

Approved By Commission:	Conducted By: M. Burch	Calculated By: Reggie Reston	Checked By: B. R. Duke
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