

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1-14-85	
Company HAMON OIL COMPANY		Connection TO AIR	
Pool SOUTH CARLSBAD MORROW		Formation Unit	
Completion Date 12-22-84 / 1-15-85	Total Depth 11,957'	Plug Back TD 11,950'	Elevation 3226.7
Case Size 5 1/2"	Wt. 15.5#	d 4.950	Set At 11,957'
Thru Size 2 3/8"	Wt. 4.6#	d 1.995	Set At 11,769'
Type Well - Single - Brdenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 11,769'	
Producing Thru Tubing	Reservoir Temp. °F 193°	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
L 11,887	H 11,887	G _g .589	% CO ₂ 2.571
		% N ₂ 248	% H ₂ S Prover
		Meter Run 4"	Tape Flange

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							2000	61°	PKR	CHOKE	72 Hrs.
1.	4.026	x	1.750	480	3"	98°	1715	63		9/64	1 Hr.
2.	4.026	x	1.750	490	8	91	1417	66		12/64	1 Hr.
3.	4.026	x	1.750	495	14	92	1195	69		16/64	45 Min.
4.	4.026	x	1.750	495	19	95	1070	71		18/64	1 Hr.
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	14.93	38.47	493.2	.9653	1.303	1.029	743
2	14.93	63.45	503.2	.9715	1.303	1.031	1236
3	14.93	84.35	508.2	.9706	1.303	1.031	1642
4	14.93	98.26	508.2	.9680	1.303	1.030	1906
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	.73	558	1.61	.944	Specific Gravity Separator Gas .589	XXXXXXXXXX
2	.74	551	1.59	.941	Specific Gravity Flowing Fluid XXXXX	
3	.75	552	1.59	.940	Critical Pressure 680	P.S.I.A. _____
4	.75	555	1.60	.942	Critical Temperature 347	R _____
5						

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²
1		1860.1	3460.0	618
2		1657.7	2748.0	1330
3		1488.6	2215.9	1862.1
4		1387.3	1924.6	2153.4
5				

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.894$

(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.7687$

AOI = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 3.371$

Post FD-2
2-8-85
Comp. & PK.

Absolute Open Flow	3,371	Mcf @ 15.025	Angle of Slope °	48.25	Slope, n	.893
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Remarks: Made 3 Bbls. of water during test. P_c & P_w were calculated from known B.H.P. taken with a Kuster Gauge.

Approved by Commission:	Conducted By: W.S.	Calculated By: R.R.	Checked By: R.R.
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