

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 1-11-85	
Company: Harper Oil Company		Connection: To Air	
Pool: SOUTH DALLAS MONTANA <i>Wk Penn</i>		Formation: Penn Wildcat	
Completion Date: 10-17-84 / 1-6-85	Total Depth: 6560'	Plug Back TD: 6521'	Elevation: 3843 GL.
Casing Size: 5 1/2"	WI: 15 1/2#	d: 4.950	Set At: 6560'
Thru Size: 2 3/8"	WI: 4.7#	d: 1.995	Set At: 6028'
Type Well - Single - Brdenhead - G.C. or G.O. Multiple		Packer Set At: 6028'	
SINGLE		Baro. Press. - P _g : 13.2	
Producing Thru: Tubing	Reservoir Temp. °F: 135°	Mean Annual Temp. °F: 60°	State: New Mexico
L: 6121	H: 6121	G _g : 598	% CO ₂ : .101
		% N ₂ : 2.687	% H ₂ S:
		Prover:	Meter Run: 3"
			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							1495	41	PKR.	CHOKE	72 Hrs.
1.	3	x	1.00	20	48"	40°	45	42		24/64	1 Hr.
2.	3	x	1.00	20	27	40	48	45		20/64	1 Hr.
3.	3	x	1.00	20	22	40	60	47		16/64	45 Min.
4.	3	x	1.00	20	18	40	125	49		12/64	1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.789	39.92	33.2	1.020	1.293	NIL	252
2	4.789	29.94	33.2	1.020	1.293	NIL	189
3	4.789	27.03	33.2	1.020	1.293	NIL	171
4	4.789	24.45	33.2	1.020	1.293	NIL	154
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	.03	500	1.45	NIL	Specific Gravity Separator Gas: 598	XXXXXXXXXX
2	.03	500	1.45	NIL	Specific Gravity Flowing Fluid: XXXXX	
3	.03	500	1.45	NIL	Critical Pressure: 663	P.S.I.A.
4	.03	500	1.45	NIL	Critical Temperature: 349	R
5						

NO.	P _i ²	P _w ²	P _e ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.045$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.045$
1		315.6	99.6	2202.3		
2		324.3	105.2	2196.7		
3		360.2	129.7	2172.2		
4		431.9	186.5	2115.4		
5						

Absolute Open Flow: 263 Mcfd @ 15.025
 Angle of Slope: 45°
 Slope, n: 1.00

Remarks: Made 1 Bbl. of water during test. P_c and P_w were calculated from known BHP measured with a Kuster Gauge.

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