

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-1-80	
Company AMERADA HESS CORPORATION		Connection None	
Pool Jalmat <i>La Grulla</i>		Formation Penrose	
Completion Date 2-22-80	Total Length 3398	Plug back TD 3360	Elevation N/A
State NJ		Furn. or Lease Time	
Csg. Size 5 1/2"	Wt. 17.0	d 4.892	Set At 3296
Perforations: From 3192 To 3286		Well No. 4	
Tub. Size 1 1/2"	Wt. 2.9	d 1.610	Set At 3150
Perforations: From Open To End		Unit A 2 25 37	
Type well - Single - Broadhead - G.G. or G.O. Multiple Single		Packer Set At None	County Lea
Producing Tube Casing	Reservoir Temp. °F 106 @ 3239	Mean Annual Temp. °F 60	Baro. Press. - P _a 31.2
State New Mexico			
L 3239	H 3239	G _g .789	% CO ₂ 7.78
		% N ₂ .90	% H ₂ S .06
Provor		Meter Run 4"	Flg. Flg.

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Provor 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									103		72 hr.
1.	4	x	.750	19	11.0	59			101		45 min.
2.	4	x	.750	25	24.0	66			99		30 min.
3.	4	x	1.500	40	10.0	75			95		45 min.
4.	4	x	1.500	35	22.0	74			91		30 min.
5.	4	x	1.500	35	42.0	73			80		30 min.

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 Compens. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.661	18.82	32.2	1.001	1.126	Nil	56
2	2.661	30.28	38.2	.9943	1.126	Nil	90
3	10.64	23.07	53.2	.9859	1.126	Nil	278
4	10.64	32.56	48.2	.9863	1.126	Nil	392
5	10.64	44.99	48.2	.9877	1.126	Nil	542

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mcft/bbl.
1	.04	519	1.23	Nil	A.P.L. Gravity of Liquid Hydrocarbons		Deg.
2	.05	526	1.30	Nil	Specific Gravity Separator Gas	.789	X X X X X X X X
3	.05	535	1.32	Nil	Specific Gravity Flowing Fluid	X X X X X	
4	.07	534	1.32	Nil	Critical Pressure	700	P.S.I.A.
5	.07	533	1.32	Nil	Critical Temperature	404	R

NO.	P _r	P _w	P _r ²	P _w ²
1	116.3	13.5		
1		114.2	13.0	.5
2		112.2	12.6	.9
3		108.2	11.7	1.8
4		104.2	10.9	2.6
5		93.2	8.7	4.8

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.813$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.813$

ADP = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.525$

Absolute Open Flow	1,525	Mcfd @ 15.025	Angle of Slope @	45°	Slope, n	1.000
Remarks: Friction nil. Well made no fluid during test.						

Approved by: <i>Jerry Sexton</i> Dist. 1. Supv.	Conducted By: <i>Bill Rea</i> Bob McMurrain	Calculated By: <i>Bob McMurrain</i>	Checked By: <i>Low H. Jones</i>
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