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JUL 2 1979
MESA-PBD

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JUL 17 1979
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Type Test ☒ Initial ☐ Annual		Connection TO AIR		JUL 17 1979		JUL 2 1979 MESA-PBD	
Company MESA PETROLEUM COMPANY		Formation CISCO		U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO		Well	
Pool <i>Logan Draw Cisco</i>		Completion Date 6-20-79		Total Depth 9230		Flow back To 9169 3384	
Csg. Size 4 3/8		ID 4.7		Set At 9230		Perforations: From 7662 To 7784	
Trq. Size 2 3/8		ID 1.995		Set At		Perforations: From SLIDING SLEEVE To 7832	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple G.G. DUAL				Packer Set At 8857		County EDDY	
Producing thru TUBING		Reservoir Temp. °F 152 @ 7832		Mean Annual Temp. °F 60 °		Zero. Press. - P _g 13.2	
L 7832		H 7832		G _g .739		% CO ₂ 2.27	
						% N ₂ 2.40	
						% H ₂ S	
						Prover	
						Meter Run 4 "	
						Temp. FLG.	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							850		1320		72 Hrs.
1.	4	X	1.00	150	2	88	730		1290		1 Hr.
2.	4	X	1.00	120	5	86	630		1230		1 Hr.
3.	4	X	1.00	165	29	85	840		1120		1 Hr.
4.	4	X	1.00	160	65	84	779		940		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, Mhd
1	4.753	18.07	163.2	.9741	1.163	1.017	99
2	4.753	25.81	133.2	.9759	1.163	1.015	141
3	4.753	71.89	178.2	.9768	1.163	1.020	396
4	4.753	106.10	173.2	.9777	1.163	1.019	584
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Std.
1.	.24	548	1.37	.967	3.610	
2.	.20	546	1.36	.971	50 @ 60	
3.	.27	545	1.36	.962		
4.	.26	544	1.36	.963		
5.						

P _t 1333.2 P _w 1777.4		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.046$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.707$	
NO.	P _t	P _w	P _c	P _c	P _w
1		1303.2	1698.3	79.1	
2		1243.2	1545.5	231.9	
3		1133.2	1284.1	493.3	
4		953.2	908.6	868.8	
5					

Absolute Open Flow 997		Mhd @ 15.025		Angle of Slope 53.250		Slope, n .747	
Remarks: WELL MADE 14.08 BBLs CONDENSATE DURING TEST							

Approved By: JOHN R. DAVIS		Conducted By: LARRY C. DAVIS		Checked By: 18 1979		RECEIVED	
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XC: JLF, MPH, LC, FILE JWH MEC WILCOCKS 7-2-79

O.C.C.
ARTESIA, OFFICE