

N MEXICO OIL CONSERVATION COM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-66

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 06-10-80		JUN 26 1980	
Company MESA PETROLEUM		Connection AIR		O. C. D.	
Well Diamond mound morrow UNDESIGNATED		Formation ATOKA - MORROW		ARTESIA, OFFICE	
Completion Date 05-25-80		Total Depth 9365		Perforations 9249' 3622 GL	
Csg. Size 4 1/2		Set At 10.5-11.6		Well No. # 1	
Tub. Size 2 3/8		Set At 4.7		Unit Sec. Twp. Rge. K 4 16 28	
Type well - Single - Froesehead - G.G. or G.O. Multiple SINGLE		Packer Set At 9041		County EDDY	
Producing thru TBG.		Reservoir Temp. °F 164° 9041		State NEW MEXICO	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2			
L 9041		H 9041		G _g .648	
% CO ₂ .446		% N ₂ .554		% 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	4 X 2.000			450	1.0	112	3160				72 HRS.
2.	4 X 2.000			460	3.5	98	2920				1 HR.
3.	4 X 2.000			465	6.0	96	2690				1 HR.
4.	4 X 2.000			470	10.0	92	2470				1 HR.
5.							2180				

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 O, Mgd
1.	19.81	21.52	463.2	.9535	1.242	1.034	522
2.	19.81	40.70	473.2	.9653	1.242	1.039	1004
3.	19.81	53.56	478.2	.9671	1.242	1.040	1326
4.	19.81	69.51	483.2	.9706	1.242	1.041	1728
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Dol.
1.	.69	572	1.53	.936	63.611	
2.	.71	558	1.49	.927	48@60	
3.	.71	556	1.48	.925		
4.	.72	552	1.47	.923		
5.						

NO.	P _r	P _w	P _w '	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1.	3173.2	2935.5	8617.2	1452.0	1.946	1.839
2.		2709.5	7341.4	2727.8		
3.		2493.9	6219.5	3849.7		
4.		2212.2	4893.8	5175.4		
5.						

Absolute Open Flow <u>3,177</u> Mgd @ 15.025		Angle of Slope <u>47.5</u>		Slope, n <u>.915</u>	
Remarks: <u>3 BBLS. OF DISTILLATE WERE PRODUCED DURING THE TEST.</u>					
Approved By Commission:		Conducted By:		Checked By:	
		DAVIS SERVICES INC.		RICK PAGAN	