

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Corrected report

RECEIVED

☒ Initial ☐ Annual ☐ Special				Test Date 02-11-80		MAR 12 1980	
Company MESA PETROLEUM				Direction TO AIR		O. C. D.	
Well Log No. <i>20011000</i> UNDESIGNATED WILDCAT				Formation MORROW		Unit ARTESIA, OFFICE	
Completion Date 1-29-80		Total Length 9590		Plug Intake To 9507'		Elevation 3423' GL	
Csg. Size 5 1/2		ID 17 #		Set At 9589		Perforations From 9284' To 9490'	
Trp. Size 2 3/8		ID 4.7		Set At 1.995		Perforations From open To end	
Type Well - Couple - Production - G.G. or G.O. Multiple SINGLE				Backset Let At 9243'		Producer Lease Name WILLIS FEDERAL COM.	
Producing Thru TBG.		Reservoir Temp. °F 168 @ 9365		Mean Annual Temp. °F 13.2		Well No. # 1	
L 9365		H 9365		Gg .625		% CO ₂ 1.11	
				% N ₂ 3.30		% H ₂ S 	
				Prover 		Meter Run 4"	
						State NEW MEXICO	
						County EDDY	
						Section 28	
						Township 17s	
						Range 27e	

FLOW DATA						TUBING DATA		CASING DATA		Direction 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 1.00			600	4.	70	2850				72 HR.
2.	4 X 1.00			600	7.5	86	2525				1 HR.
3.	4 X 1.00			600	14.	91	2225				1 HR.
4.	4 X 1.00			625	21.	95	1690				1 HR.
5.							900				1 HR.

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 Comp. Factor, F _{sp}	Rate of Flow Q, Mhd
1	4.753	49.53	613.2	.9905	1.265	1.050	310
2	4.753	67.82	613.2	.9759	1.265	1.044	415
3	4.753	92.65	613.2	.9715	1.265	1.043	564
4	4.753	115.77	638.2	.9680	1.265	1.043	703
5							

NO.	P _g	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.92	530	1.49	.907			.625		670	355
2	.92	546	1.54	.917						
3	.92	551	1.55	.919						
4	.95	555	1.56	.919						
5										

NO.	P _g	P _w	P _w ²	P _g ² - P _w ²	(1) $\frac{P_g^2}{P_g^2 - P_w^2} =$	(2) $\left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n =$
1		2538.3	6443.0	1754.9	1.115	1.070
2		2239.0	5013.1	3184.8		
3		1705.4	2908.4	5289.5		
4		921.2	848.7	7349.2		
5						

Absolute Open Flow <u>752</u> Mhd @ 15.025				Angle of Slope <u>58.0</u>		Slope, n <u>.625</u>	
Remarks:							
Approved By:		Conducted By:		Checked By:		Date:	
JOHN DAVIS		LARRY DAVIS					