

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

SF
File ✓
122 Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-5-79		DEC 27 1979	
Company MGF OIL CORPORATION				Connection TO AIR				O. C. D.	
Pool Wildcat Mississippi				Formation MISSISSIPPIAN				Unit ARTESIA, OFFICE	
Completion Date 11-22-79		Total Depth 9800		Plug Back TD 9790		Elevation 3976.1 GL		Farm or Lease Name BIKAR FEDERAL	
Crp. Size 4 1/2	Wt. 9.50	d 4.090	Set At 9800	Perforations: From 9382 To 9714		Well No. 1			
Thq. Size 2 3/8	Wt. 4.60	d 2.375	Set At 9203	Perforations: From OPEN To END		Unit 14	Sec. 10S	Twp. 29E	Rge. 29E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 9203		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 169 9548		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 9548	H 9548	Gg .648	% CO ₂ .83	% N ₂ 1.12	% H ₂ S 2"	Prover	Meter Run	Taps	

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	of Flow
SI							2140				72 HRS.
1.	2 x 1/4			240		58	2034				1 HR.
2.	2 x 3/8			235		78	1898				1 HR.
3.	2 x 1/2			200		76	1665				1 HR.
4.	2 x 5/8			200		76	1247				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, Mcfd
1	1.087		253.2	1.002	1.242	1.025	351
2	2.378		248.2	.9831	1.242	1.022	737
3	4.279		213.2	.9850	1.242	1.020	1138
4	6.473		213.2	.9850	1.242	1.020	1722
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.38	518	1.39	.951	164.5	
2	.37	538	1.45	.957		
3	.32	536	1.44	.962		
4	.32	536	1.44	.962		
5						

P _c 2157.9 P _c ² 4656.5					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.614$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.469$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		2064.5	4262.2	394.3		
2		1940.9	3767.1	889.4		
3		1718.8	2954.3	1702.2		
4		1330.9	1771.3	2885.2		
5						

Absolute Open Flow 2,529 Mcfd @ 15.025			Angle of Slope 51.250		Slope, n .803	
Remarks: 1 BBL. CONDENSATE MADE DURING TEST. BOTTOM HOLE PRESSURES MEASURED WITH KUSTER GAUGE.						
Approved By Commission:		Conducted By:		Calculated By:		Checked By:
		LCH		RR		JWW