

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

Form C-12
Revised 9-1-66

Type Test									
<input checked="" type="checkbox"/> Initial		<input type="checkbox"/> Annual		<input type="checkbox"/> Special		Test Date	8-2-78		
Company		Connection							
Marathon Oil Company									
Pool		Formation							
		Mesa Verde							
Completion Date		Total Depth		Plug Back TD	6,012' KB	Farm or Lease Name			
8-2-78		5,050'		5,003'	6,000' GL	Ohio F Gov't.			
Csg. Size	Wt.	d	Set At	Perforations:			Well No.		
4-1/2 "	10.5#		5,050'	From 4,732' To 4,943'			1-A		
Tbg. Size	Wt.	d	Set At	Perforations:			Unit Sec. Twp. Range		
2 3/8	6.5#		4375	From To			C 20 31N 12W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At			County		
Single gas				None			San Juan		
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P_a		State	
Tbg.		144° 4750						New Mexico	
L	H	Gg	.650	% CO ₂	% N ₂	% H ₂ S	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	
SI	7 Days						975	975	
1.	2 X 3/4						380	84	620
2.									
3.									
4.									
5.									
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 Q, Mcfd
1	9.453				392	.9777	1.240	1.041	4677
2									
3									
4									
5									
NO.	P_t	Temp. °R	T_f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.				
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.				
2.					Specific Gravity Separator Gas _____				XXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX				
4.					Critical Pressure _____ P.S.I.A.				P.S.I.A.
5.					Critical Temperature _____ R				R
P_c	987	P_c^2	974169		(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.6950$				(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.4855$
NO.	P_t^2	P_w	R_w^2	$P_c^2 - P_w^2$					
1		632	399424	574745					
2									
3									
4									
5									
Absolute Open Flow 6948					Mcfd @ 15.025		Angle of Slope θ		Slope, n .75
Remarks: _____									
Approved By Commission:		Conducted By: Toby Tefteller			Calculated By: Neil Tefteller			Checked By: J. E. Hawland	



reservoir engineering data

MIDLAND, TEXAS

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File 2-8769-AOP & PCompany MARATHON OIL COMPANY Lease
Field LA PLATA-BLANCO MESA VERDE County
Formation MESA VERDE Test DateOHIO "F" GOV'T.
SAN JUAN
AUGUST 2, 1978Well No. 1-A
State NEW MEXICO