

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

Form O-1122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-26-78				
Company MARATHON OIL COMPANY						Connection				
Pool LA PLATA-BLANCO MV						Formation MESA VERDE		Unit F		
Completion Date			Total Depth 5009		Plug Back TD 4960		Elevation 5925 KB		Farm or Lease Name OHIO "D" GOV'T.	
Csg. Size 4.5	Wt. d	Set At 5000	Perforations: From 4634 To 4885				Well No. 1-A			
Tbg. Size 2.375	Wt. d	Set At 4325	Perforations: From To				Unit Sec. Twp. Rge. 8 31 12			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE GAS						Packer Set At NONE		County SAN JUAN		
Producing Thru Tbg.		Reservoir Temp. °F 144° 4700		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State NEW MEXICO		
L	H	Gg .650	% CO ₂	% N ₂	% H ₂ S	Prover X	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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	7 Days						731		731		
1.	2 X 3/4						319	60	630		3 Hrs.
2.											
3.											
4.											
5.											

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.453		331	1.000	1.240	1.035	4016
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	743	552049	642	412164	139885
2					
3					
4					
5					

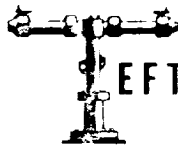
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.9464$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.7999$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11244$

Absolute Open Flow	11244	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
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Remarks:

Approved By Commission:	Conducted By: Toby Tefteller	Calculated By: Neil Tefteller	Checked By: <i>J.E. Lawrence</i>
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EFTELLER, INC.

reservoir engineering data

MIDLAND, TEXAS

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File 2-8753-P

Company MARATHON OIL COMPANY Lease OHIO "D" GOV'T. Well No. 1-A
Field LA PLATA-BLANCO MESA VERDE County SAN JUAN State NEW MEXICO
Formation MESA VERDE (POINT LOOKOUT) Test Date JULY 26, 1978

Status of Well Shut-in 168 hrs.

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	731	
2000	772	0.021
4100	814	0.020
4400	822	0.027
4700	830	0.027

1600

1400

1200

1000

800

600

400

200

0

Datum Pressure Psig

* 4634-4708, 4380-4385

* 5914-61

Elev. 5925 KB *	Datum	Ft.
Total Depth 5000	Perf. *	Ft.
Tubing 2 3/8	in. to 4325	Ft.
Casing 4 1/2	in. to 5000	Ft.
Casing Press 731	Tubing Press 731	
Oil Level	Water Level	
Temperature 144	°F at 4700	Ft.
Element No. 37665	Range 0-4500	
Last Test Date		
Pressure Last Test Date		Psig
B H P Change	Psi	

0 1000 2000 3000 4000 5000 6000 7000
DEPTH FEET