

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

Form C-122
 Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 11-30-76	
Company Mobil Oil				Connection NONE	
Pool BLANCO MESA VERDE				Formation MESA VERDE	
Completion Date		Total Depth 6400		Plug Back TD 6370	
Csq. Size 4 1/2		Set At 6400		Perforations: From 5892 To 6312	
Trq. Size 2 3/8		Set At		Perforations: From To	
Type Well - Single - Broadhead - G.G. or G.O. Multiple				Packer Set At NONE	
Producing Thru T86		Reservoir Temp. °F 50		Baro. Press. - P _a 12.2	
L		H		Prover 0.75	
G _g 0.764		% CO ₂		% H ₂ S	
Meter Run 2.0		Taps		County RIO ARriba	
State NEW MEXICO		Well No. 4-A		Unit Sec. Twp. Rge. D-26-27-3	

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
51							1462	50	1460	50	12 days
1.	2 X 0.75						672	50	1050	50	3 hrs
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 Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mhd
1	12.365		487.2	1.0078	.8862	1.078	5811
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbons Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flaring Field	Critical Pressure	Critical Temperature
1	.730	510	1.24	.861	104	63° @ 60°F	0.764	XXXXXX	667	411
2.										
3.										
4.										
5.										

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1	1774.2	2173	1062.2	1128
2.				
3.				
4.				
5.				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 2.08$

API = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 10062$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.23$

Absolute Open Flow	10062	Mhd @ 14.625	Angle of Slope @	53.1	Slope n	0.75
--------------------	-------	--------------	------------------	------	---------	------

Remarks: Produced 7 BNO in 3 hrs.

Approved By	Conducted By	Calculated By	Checked By

KE LOGARITHMIC 46 7403
3 X 3 CYCLES MADE IN U.S.A.
KEUFFEL & ESSER CO.

$P_z - P_w^2$

JICARILLA "G" 4-A

$P_z^2 = 2173$

CAOF = 10062

Q, mgd

WDR 12-9-76