

**OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87501**

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-122
Revised 4-1-91

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Meridian Oil, Inc.					Lease or Unit Name P. L. DAVIS					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 05-27-94		Well No. 2			
Completion Date 03-08-94		Total Depth 6,444		TVD MD 6,330		Plug Back TD 6,433		Elevation 6,433		
Csg. Size 4.500		Wt. 11		d 4.052		Set At 6,444		Perforations: From 5,515 To 5,558		
Tbg. Size 2.375		Wt. 4.7		d 1.995		Set At 5,439		Perforations: From To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At NONE			Formation GALLUP		
Prod Thru Tubing		Resv Temp °F		Mean Ann T °F		Baro. Press. Pd 12.20			Connection	
L	H	Gg 0.700	% CO2 0.000	% N2 0.000	% H2S	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.
SI	2 X 6		0.750				659	63	663	
1.							15	63	422	
2.							17	65	419	
3.							13	66	428	
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{hw \cdot P_m}$	Pressure Pm	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	11.000		25.2	0.9943	1.1952	1.0000	329.42
2.							
3.							
4.							
5.							

NO.	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mc/bbl.
1.					API Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXXXXXXXXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXXX
4.					Critical Pressure	P.S.I.A
5.					Critical Temperature	R

Pc 675.20	Pc2 455,895.04
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NO.	Pt2	Pw	Pw2	Pc2 - Pw2
1.		440.20	193,776.04	262,119.00
2.				
3.				
4.				
5.				

(1) $\frac{Pc2}{Pc2 - Pw2} = 1.7393$

AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 498.91$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.5145$

Absolute Open Flow 499 Mcfd @ 15.025	Angle of Slope	Slope, n 0.75
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Remarks:

Approved By Division	Conducted By: STEVE KELLANERS	Calculated By: TANYA ATCITTY	Checked By: BILL HUNTINGTON
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