

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

RECEIVED
OCT 19 1994
Form C-122
Revised 1-91
OIL CON. DIV.
DIST. 3

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Meridian Oil, Inc.						Lease or Unit Name VAUGHN					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-10-94		Well No. 15			
Completion Date 10-03-94		Total Depth 7,521		TVD MD		Plug Back TD 7,520		Elevation 6,669		Unit Letter - Sec. - TWN - RNG A-28-26N-6W	
Csg. Size 4.500	Wt. 11	d 4.052	Set At 7,541	Perforations: From 5,158 To 5,372				County RIO ARRIBA			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 5,295	Perforations: From To				Pool BLANCO			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At				Formation MESAVERDE			
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.	Temp. F*	
SI	2		0.750				830		830		S.I.
1.							65	60	65		1 Hour
2.							30	60	30		2 Hours
3.							25	60	25		3 Hours
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	11.000		37.2	1.0000	1.1952	1.0000	489.09
2.							
3.							
4.							
5.							

NO.	Pr	Temp. *R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcft/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 842.20	Pc2 709,300.84
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NO.	Pt2	Pw	Pw2	Pc2 - Pw2
1.		37.20	1,383.84	707,917.00
2.				
3.				
4.				
5.				

(1) $\frac{Pc2}{Pc2 - Pw2} = 1.0020$

AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 489.80$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.0015$

Absolute Open Flow 490 Mcfd @ 15.025	Angle of Slope	Slope, n 0.75
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Remarks:

Approved By Division	Conducted By: JOE GOLDING	Calculated By: TANYA ATCITY	Checked By: LARY BYARS
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