

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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

RECEIVED
OCT 20 1994
OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Meridian Oil, Inc.						Lease or Unit Name Johnston A Com G					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-11-94		Well No. 18			
Completion Date 10-04-94		Total Depth 7,225		TVD MD		Plug Back TD 7,193		Elevation 6,358		Unit Letter - Sec. - TWN - RNG N-36-26N-6W	
Csg. Size 5.500	Wt. 17	d 4.892	Set At 7,212	Perforations: From 6,815 To 7,142				County RIO ARRIBA			
Tbg. Size 1.500	Wt. 2.9	d 1.61	Set At 7,001	Perforations: From To				Pool BASIN			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - DK / MV				Packer Set At 5100				Formation DAKOTA			
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				1550	69	1550	69	S.I.
1.							270	69	270	69	1 Hour
2.							220	69	220	69	2 Hours
3.							205	69	205	69	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		217.2	0.9915	1.1952	1.0000	2,831.23
2.							
3.							
4.							
5.							

NO.	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/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 1562.20	Pc2 #####
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NO.	Pt2	Pw	Pw2	Pc2 - Pw2
1.		217.20	47,175.84	#####
2.				
3.				
4.				
5.				

(1) $\frac{Pc2}{Pc2 - Pw2} = 1.0197$

AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 2,872.98$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.0147$

Absolute Open Flow 2,873 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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