

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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

RECEIVED
DEC 5 1994
Form 5-1994
Revised 4-1-91

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

OIL CON. DIV.
DIST. 3

Operator Meridian Oil, Inc.					Lease or Unit Name Johnston A Com				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-01-94		Well No. 5		
Completion Date 10-31-94		Total Depth 7,450		TVD MD		Plug Back TD		Elevation 6,713	
Csg. Size 5.500		Wt. 17		d 4.892		Set At 7,315		Perforations: From 5,108 To 5,328	
Tbg. Size 1.500		Wt. 2.9		d 1.61		Set At 5,358		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - DK/MV					Packer Set At 5500				
Prod Thru Tubing		Resv Temp °F		Mean Ann T °F		Baro. Press. Pd 12.20		Formation MESAVERDE	
L		H		Gg 0.700		% CO2 0.000		% N2 0.000	
								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		0.750				628		1109	
1.							115	64	640	
2.							80	64	550	
3.							40	64	490	
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		52.2	0.9962	1.1952	1.0000	683.67
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 1121.20		Pc2 #####	
NO.	Pt2	Pw	Pw2
1.		502.20	252.204.84
2.			
3.			
4.			
5.			

(1) $\frac{Pc2}{Pc2 - Pw2} = 1.2510$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.1829$

AOF = $Q \left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 808.70$

Absolute Open Flow	809	Mcf @ 15.025	Angle of Slope		Slope, n	0.75
Remarks:						

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