

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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

RECEIVED
FEB 12 1995
Revised 4-1-91

OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Meridian Oil, Inc.					Lease or Unit Name San Juan 28-6 Unit					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 02-07-95		Well No. 109M			
Completion Date 11-24-94		Total Depth 7,685		TVD MD		Plug Back TD 7,672		Elevation 6,485		
Perforations:					Unit Letter - Sec. - TWN - RNG J-1-027N-06W					
Csg. Size 4.500	Wt. 11.6	d 4.000	Set At 7,684	From 7,480 To 7,665			County RIO ARRIBA			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7,638	From To			Pool BASIN			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL - DK/MV				Packer Set At 5908			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°	
SI	2		0.750				1730	885	S.I.
1.							290	59	1 Hour
2.							262	59	2 Hours
3.							239	60	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		251.2	1.0000	1.1952	1.0000	3,302.66
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 P.S.I.A
5.					Critical Temperature	R R

Pc 897.20	Pc2 804,967.84
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NO.	Pt2	Pw	Pw2	Pc2 - Pw2
1.		708.20	501,547.24	303,420.60
2.				
3.				
4.				
5.				

(1) $\frac{Pc2}{Pc2 - Pw2} = 2.6530$

AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 6,865.36$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 2.0787$

Absolute Open Flow 6,865 Mcfd @ 15.025	Angle of Slope	Slope, n 0.75
Remarks:		
Approved By Division		
Conducted By: MICK FERRARI	Calculated By: TANYA ATCITTY	Checked By: LARY BYARS