

**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 Mendian Oil, Inc.					Lease or Unit Name JERNIGAN				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 01-10-94		Well No. 3A		
Completion Date 10-08-93		Total Depth 4 683		TVD MD	Plug Back TD 4 642		Elevation 5 028		Unit Letter - Sec. - TWN - RNG I-24-027N-009W
Csg. Size 4 500	Wt. 11	d K-55	Set At 4 683	Perforations: From 4 289 To 4 480				County SAN JUAN	
Tbg. Size 2 375	Wt. 4 5	d CSR-55	Set At 4 511	Perforations: From 2 993 To 3 000				Pool BLANCO/UNDESIGNATED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple COMMINGLE					Packer Set At None				Formation MESAVEDE/CHACRA
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°
1.	2 X 6		0 750				720		720		S.I.
2.							380	73	415		1 Hour
3.							276	78	333		2 Hours
4.							183	79	298		3 Hours
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		195 2	0 9822	1 1952	1 0000	2 520 73
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	XXXXXXXXXXXXXXXXXXXX
4.					Critical Pressure	P.S.I.A
5.					Critical Temperature	R

NO.	Pc2	Pw	Pw2	Pc2 - Pw2
1.	732 20	310 20	96 224 04	439 892 80
2.				
3.				
4.				
5.				

(1) $\frac{Pc2}{Pc2 - Pw2} = 1 2187$

AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 2 923 89$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1 1599$

Absolute Open Flow	2 924	Mcf @ 15.025	Angle of Slope		Slope, n	0 75
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Remarks:

Approved By Division	Conducted By: KENNY CULBERTSON	Calculated By: SUSAN DOLAN	Checked By: BILL HUNTINGTON
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RECEIVED
JAN 28 1994
OIL CON. DIV.
DIST. 3