

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 Tibbar Federal					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-19-94		Well No. 1E			
Completion Date 10-10-94		Total Depth 6,720		TVD MD		Plug Back TD		Elevation 6,326		Unit Letter - Sec. - TWN - RNG M-13-02N-09W	
Csg. Size 4 500	Wt. 11 6	d 4 000	Set At 6,720	Perforations: From 6,396 To 6,686				County SAN JUAN			
Tbg. Size 2 375	Wt. 4 6	d 1 995	Set At 6,641	Perforations: From To				Pool BASIN			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At				Formation DAKOTA			
Prod Thru		Resv Temp °F		Mean Ann T °F		Baro. Press. Pd 12.20		Connection			
-		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				1150		1410		SI
1.				300			600	22	1320		1 Hour
2.				300			700	30	1245		2 Hours
3.				300			800	28	1220		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		312.2	1.0323	1.1952	1.0000	4,237.18
2.							
3.							
4.							
5.							

NO.	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl. Deg.
1.					API Gravity of Liquid Hydrocarbons	
2.					Specific Gravity Separator Gas	XXXXXXXXXXXXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXXX
4.					Critical Pressure	P.S.I.A
5.					Critical Temperature	R

Pc 1422.20 Pc2 #####				
NO.	Pt2	Pw	Pw2	Pc2 - Pw2
1.		1232.20	#####	504,336.00
2.				
3.				
4.				
5.				

$$(1) \frac{Pc2}{Pc2 - Pw2} = 4.0105$$

$$AOF = Q \left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 12,008.21$$

$$(2) \left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 2.8340$$

Absolute Open Flow 12,008 Mcfd @ 15.025		Angle of Slope	Slope, n 0.75
Remarks:			
Approved By Division	Conducted By: RICK GERARD	Calculated By: TANYA ATCITY	Checked By: STEVE FLOREZ