

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Meridian Oil, Inc.						Lease or Unit Name R.O. Gregory					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-9-94		Well No. 3			
Completion Date 12/6/94			Total Depth 3286'		Plug Back TD CLBP@3150'		Elevation		Unit Ltr. - Sec. - TWP - Rge. M 33-25-37		
Csg. Size 7"	Wt. 23#	d 6.366	Set At 3285'	Perforations: From: 2600 To: 2865				Country Lea			
Tbg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 2562	Perforations: From: To:				Pool Jalmat			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		Formation Yates 7R			
Producing Thru Casing		Reservoir Temp. °F 90 @ 2600'		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection Vented			
L 2600	H 2600	G _g .8136	% CO ₂ 11.11	% N ₂ 1.37	% H ₂ S	Prover		Meter Run 3.068		Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							94		P.J.		24 Hours
1.	3	X	1.000	52	74.00	60	71		"		24 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	h _w P _m	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	4.789	69.46	65.2	1.000	1.108	1.014	374
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry gas	Mcf/bbl.
1.	.09	520	1.28	.973	A.P. I Gravity of Liquid Hydrocarbons	Dry	Deg.
2.					Specific Gravity Separator Gas		XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	712	P.S.I.A. P.S.I.A.
5.					Critical Temperature	406	R R

P_c **107.2** P_c² **11.5**

NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1.		84.3	7.1	4.4
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.617}{4.4} = 0.595$

2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.617}{4.4} = 0.595$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.979$

Absolute Open Flow	979	Mcf @ 15.025	Angle of Slope θ	45	Slope, n	1.000
--------------------	------------	--------------	-------------------------	-----------	----------	--------------

Remarks: **No fluid produced during test**

FEB 03 1995