

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 STATE 16 COM					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2/27/96		Well No. 1			
Completion Date 2/27/96		Total Depth 11,524'		Plug Back TD CIBP@11,060'		Elevation 3340/3356'		Unit Lr. - Sec. - TWP - Rge. 16, T19S, R29E		
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 11,524	Perforations: From: 10,653 To: 10,788			County EDDY			
Tbg. Size 2-3/8	Wt. 4.7	d .995	Set At 10,566	Perforations: From: To:			Pool Turkey Track (Atoka)			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 10,566		Formation ATOKA				
Producing Thru TBG		Reservoir Temp. °F 60°		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection SALES		
L 10,566	H 10,566	G _g .669	% CO ₂ .25	% N ₂ 1.46	% H ₂ S	Prover -0-	Meter Run 3.068	Taps FLG		
FLOW DATA										
NO.	Prover Line Size	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	Duration of Flow
SI	3.068 x	2.250			70	2878	68			12 hr
1.	3.068 x	2.250	67.2	6"	70	228.2	68	Pkr		24 hr
2.										
3.										
4.										
5.										
RATE OF FLOW CALCULATIONS										
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd			
1.	28.78	20.228	67.2	.995	1.223	1.009	714			
2.										
3.										
4.										
5.										
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 79.333 Mcf/bbl.					
1.	.0998	530	1.417	.983	A.P. I. Gravity of Liquid Hydrocarbons 48.4 Deg.					
2.					Specific Gravity Separator Gas .669					
3.					Specific Gravity Flowing Fluid 48.4 XXXXXX					
4.					Critical Pressure 673 P.S.I.A.					
5.					Critical Temperature 374 R					
P _c 2891.2 P _c ² 8359.0										
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.009$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.009$					
1.	52.1	269.5	72.6	8286.4	AOOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 720$					
2.										
3.										
4.										
5.										
Absolute Open Flow 720 MCF/D Mcfd @ 15.025					Angle of Slope θ 45°		Slope, n 1.000			
Remarks: WELL MADE 9 BBLS COND. @48.4 API GRAVITY G MIX = .708										
Approved By Division			Conducted By: PRO WELL TESTER		Calculated By: MB		Checked By: BM			