

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP O BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date																																																																									
Company Meridian Oil		Correction																																																																									
Pool Barker Creek		Formation Desert Creek																																																																									
Completion Date 8/11/91	Total Depth 8995	Plug Back TD 8510	Elevation 6199 GL																																																																								
Farm or Lease Name Ute		Well No. 6																																																																									
Cas. Size 7.000	WI. 23&26#	Set At 8993	Perforations: From 8120 To 8170																																																																								
Tub. Size 2.875	WI. 6.5	Set At 8089	Perforations: From To																																																																								
Type Well - Single - Bradenhead - G.C. or G.O. Multiple		Packer Set At 8089	County San Juan																																																																								
Producing Thru	Reservoir Temp. °F 8	Mean Annual Temp. °F	Baro. Press. - P _g 12.2																																																																								
State New Mexico		Prover 700																																																																									
L	H	G _g	% CO ₂ % N ₂ % H ₂ S																																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>SI</td> <td>2"</td> <td></td> <td>.750</td> <td></td> <td></td> <td></td> <td>3060</td> <td>60</td> </tr> <tr> <td>1.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1150</td> <td>60</td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1020</td> <td>60</td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>950</td> <td>60</td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				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	SI	2"		.750				3060	60	1.							1150	60	2.							1020	60	3.							950	60	4.									5.								
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RATE OF FLOW CALCULATIONS																																																																											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd																																																																				
1	12.365		962.2	1.000	.9258	1.000	11.015																																																																				
2																																																																											
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NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R																																																																						
1																																																																											
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P _c 1044.2 P _c ² 1090353 NO P _r ² P _w P _w ² P _c ² - P _w ² 1 962.2 925829 164524 2 3 4 5					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8149$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5636$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 17,223$																																																																						
Absolute Open Flow _____ Mcfd @ 15.025					Angle of Slope @ _____		Slope, n 0175																																																																				
Remarks: _____																																																																											
Approved By Division		Conducted By: S Adams		Calculated By: S, Adams		Checked By:																																																																					