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LABORATORY ANALYTICAL REPORT

Client: Merit Energy Company
 Project: WY0000175
 Lab ID: C08050131-001
 Client Sample ID Hamilton Dome LACT Permit Renewal

Report Date: 05/27/08
 Collection Date: 05/01/08 11:50
 Date Received: 05/05/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Calcium	501	mg/L	D	0.5		E200.7	05/16/08 15:10 / cp
Chloride	444	mg/L		5		A4500-Cl B	05/09/08 17:03 / lj
Magnesium	78.8	mg/L	D	0.2		E200.7	05/16/08 15:10 / cp
Sodium Sulfate	432	mg/L	D	4		E200.7	05/16/08 15:10 / cp
	1330	mg/L	D	30		A4500-SO4 E	05/12/08 14:23 / jal
NON-METALS							
Sulfide	42	mg/L	D	1		A4500-S F	05/05/08 14:49 / jp
PHYSICAL PROPERTIES							
Conductivity	4720	umhos/cm		5		A2510 B	05/06/08 12:48 / jal
Hardness as CaCO3	1580	mg/L		10		A2340 B	05/19/08 11:27 / sec
pH	7.63	s.u.		0.01		A4500-H B	05/06/08 12:48 / jal
Solids, Total Dissolved TDS @ 180 C	3410	mg/L	D	6		A2540 C	05/07/08 09:34 / dd
Calcium, SAR	25.0	meq/L	D	0.03		E200.7	05/16/08 15:10 / cp
Magnesium, SAR	6.57	meq/L	D	0.02		E200.7	05/16/08 15:10 / cp
Sodium, SAR	18.8	meq/L	D	0.2		E200.7	05/16/08 15:10 / cp
Sodium Adsorption Ratio (SAR)	4.7	unitless		0.1		Calculation	05/19/08 11:27 / sec
METALS - DISSOLVED							
Aluminum	ND	ug/L		50		E200.8	05/16/08 21:28 / sml
Cadmium	ND	ug/L		0.2		E200.8	05/16/08 13:27 / sml
Chromium	ND	ug/L		1		E200.8	05/16/08 13:27 / sml
Chromium, Hexavalent	ND	mg/L	HL	0.01		A3500-Cr B	05/06/08 11:51 / jal
Chromium, Trivalent	ND	mg/L		0.01		Calculation	05/21/08 13:16 / sec
Copper	ND	ug/L		9		E200.8	05/16/08 13:27 / sml
Iron	ND	ug/L		50		E200.7	05/16/08 15:10 / cp
Lead	ND	ug/L		2		E200.8	05/16/08 13:27 / sml
Manganese	ND	ug/L		50		E200.8	05/16/08 13:27 / sml
Mercury	ND	ug/L		1		E200.8	05/16/08 13:27 / sml
Nickel	ND	ug/L		10		E200.8	05/16/08 13:27 / sml
Silver	ND	ug/L		3		E200.8	05/16/08 13:27 / sml
Zinc	ND	ug/L		50		E200.8	05/16/08 13:27 / sml
- The sample was received after the EPA-recommended holding time for Hexavalent Chromium had passed.							
METALS - TOTAL RECOVERABLE							
Arsenic	3	ug/L		1		E200.8	05/09/08 02:17 / sml
Selenium	ND	ug/L		5		E200.8	05/09/08 02:17 / sml
RADIONUCLIDES - TOTAL							
Radium 226	30.8	pCi/L				E903.0	05/19/08 09:42 / taj
Radium 226 precision (±)	1.2	pCi/L				E903.0	05/19/08 09:42 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/19/08 09:42 / taj

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: Merit Energy Company
Project: WY0000175
Lab ID: C08050131-001
Client Sample ID: Hamilton Dome LACT Permit Renewal

Report Date: 05/27/08
Collection Date: 05/01/08 11:50
Date Received: 05/05/08
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 228	7.4	pCi/L				RA-05	05/14/08 12:20 / plj
Radium 228 precision (±)	0.9	pCi/L				RA-05	05/14/08 12:20 / plj
Radium 228 MDC	1	pCi/L				RA-05	05/14/08 12:20 / plj
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM) Sulfur Corrected	7.5	mg/L		1.0	10	E1664A	05/06/08 15:38 / cjs
Non-polar Materials (SGT-HEM)	ND	mg/L	D	5.0		E1664A	05/13/08 10:37 / bah

Report Definitions:
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MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Merit Energy Company
 Project: WY0000680
 Lab ID: C08050130-001
 Client Sample ID Hamilton Dome Placer Rathvon

Report Date: 05/27/08
 Collection Date: 05/01/08 10:59
 Date Received: 05/05/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Calcium	19.9	mg/L	D	0.5		E200.7	05/16/08 15:06 / cp
Chloride	402	mg/L		5		A4500-Cl B	05/09/08 16:59 / ljl
Magnesium	4.9	mg/L	D	0.2		E200.7	05/16/08 15:06 / cp
Sodium	70	mg/L	D	4		E200.7	05/16/08 15:06 / cp
Sulfate	1150	mg/L	D	30		A4500-SO4 E	05/12/08 14:20 / jal
NON-METALS							
Sulfide	14	mg/L	D	1		A4500-S F	05/05/08 14:47 / jp
PHYSICAL PROPERTIES							
Conductivity	4300	umhos/cm		5		A2510 B	05/06/08 12:47 / jal
Hardness as CaCO3	70	mg/L		10		A2340 B	05/19/08 11:27 / sec
pH	8.07	s.u.		0.01		A4500-H B	05/06/08 12:47 / jal
Solids, Total Dissolved TDS @ 180 C	3130	mg/L	D	6		A2540 C	05/07/08 09:34 / dd
Calcium, SAR	1.00	meq/L	D	0.03		E200.7	05/16/08 15:06 / cp
Magnesium, SAR	0.41	meq/L	D	0.02		E200.7	05/16/08 15:06 / cp
Sodium, SAR	3.0	meq/L	D	0.2		E200.7	05/16/08 15:06 / cp
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.1		Calculation	05/19/08 11:27 / sec
METALS - DISSOLVED							
Aluminum	ND	ug/L		50		E200.8	05/16/08 13:00 / sml
Cadmium	ND	ug/L		0.2		E200.8	05/16/08 13:00 / sml
Chromium	1	ug/L		1		E200.8	05/16/08 13:00 / sml
Chromium, Hexavalent	ND	mg/L	HL	0.01		A3500-Cr B	05/06/08 11:50 / jal
Chromium, Trivalent	ND	mg/L		0.01		Calculation	05/21/08 13:16 / sec
Copper	ND	ug/L		9		E200.8	05/16/08 13:00 / sml
Iron	ND	ug/L		50		E200.7	05/16/08 15:06 / cp
Lead	ND	ug/L		2		E200.8	05/16/08 13:00 / sml
Manganese	ND	ug/L		50		E200.8	05/16/08 13:00 / sml
Mercury	ND	ug/L		1		E200.8	05/16/08 13:00 / sml
Nickel	ND	ug/L		10		E200.8	05/16/08 13:00 / sml
Silver	ND	ug/L		3		E200.8	05/16/08 13:00 / sml
Zinc	ND	ug/L		50		E200.8	05/16/08 13:00 / sml
- The sample was received after the EPA-recommended holding time for Hexavalent Chromium had passed.							
METALS - TOTAL RECOVERABLE							
Arsenic	6	ug/L		1		E200.8	05/09/08 02:11 / sml
Selenium	ND	ug/L		5		E200.8	05/09/08 02:11 / sml
RADIONUCLIDES - TOTAL							
Radium 226	35.3	pCi/L				E903.0	05/19/08 09:42 / taj
Radium 226 precision (±)	1.1	pCi/L				E903.0	05/19/08 09:42 / taj
Radium 226 MDC	0.2	pCi/L				E903.0	05/19/08 09:42 / taj

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LABORATORY ANALYTICAL REPORT

Client: Merit Energy Company
Project: WY0000680
Lab ID: C08050130-001
Client Sample ID Hamilton Dome Placer Rathvon

Report Date: 05/27/08
Collection Date: 05/01/08 10:59
Date Received: 05/05/08
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 228	11.1	pCi/L				RA-05	05/14/08 12:20 / plj
Radium 228 precision (±)	1	pCi/L				RA-05	05/14/08 12:20 / plj
Radium 228 MDC	1	pCi/L				RA-05	05/14/08 12:20 / plj
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM) Sulfur Corrected	1.8	mg/L		1.0	10	E1664A	05/06/08 15:38 / cjs
Non-polar Materials (SGT-HEM)	ND	mg/L	D	5.0		E1664A	05/13/08 10:36 / bah

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.