

SENT VIA EMAIL (robert.chesson@state.co.us)

December 10, 2009

Mr. Robert Chesson
Colorado Oil & Gas Conservation Commission, Department of Natural Resources
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Denver, Colorado 80203

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DAVID L. WALKER

RE: November 2009 Quarterly Monitoring Report
Berger Tank Battery (API Number 05-123-08554)
County Road 11 and County Road 20
Frederick, Weld County, Colorado
Project Number 1007004

Dear Mr. Chesson:

Enclosed is the November 2009 Quarterly Monitoring Report for the above-referenced site. Please read the attached report for a summary of the sampling activities performed at the site. If you have any questions or require additional information, please contact us.

Sincerely,
PARAGON CONSULTING GROUP, INC.



Amy Weber, P.E.
Project Engineer

ADW/DMR:adw1



David M. Rau, P.E., BCEE
Principal Engineer

enc: November 2009 Quarterly Monitoring Report

cc: Mr. Andy Peterson/Peterson Energy Management (via email)
Mr. Neil Rehkop/SBC Global (via email)
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December 10, 2009

Machii-Ross Petroleum Company
2901 28th Street, Suite 205
Santa Monica, California 90405

RE: November 2009 Quarterly Monitoring Report
Berger Tank Battery (API Number 05-123-08554)
County Road 11 and County Road 20
Frederick, Weld County, Colorado
Project Number 1007004

Machii-Ross Petroleum Company:

The purpose of this report is to summarize the results of the November 2009 quarterly sampling event performed at the subject site by Paragon Consulting Group, Inc. (Paragon). A copy of this report was submitted to the Colorado Oil & Gas Conservation Commission (COGCC). The approximate location of the site is shown on Figures 1 and 2 which are attached to this letter. The approximate locations of the groundwater monitoring wells located at the site are shown on Figures 3 and 4 which are also attached to this report.

1. BACKGROUND

Previous site assessment activities are discussed below. The soil and groundwater analytical results in this chapter are compared to the former COGCC Allowable Concentrations in effect prior to April 1, 2009. Series 900 of the COGCC Rules and Regulations were revised and issued on April 1, 2009. Table 910-1 in Series 900 describes Concentration Levels for contaminants in soil and groundwater which are different than the Allowable Concentrations. For work performed after April 1, 2009, contaminant levels are compared to the COGCC Concentration Levels.

1.1 ENVIRON Site Assessment

Seven (7) direct-push probes, SB-1 through SB-7, were completed at the site on January 9, 2007 by ENVIRON of Denver, Colorado. Two (2) soil samples were analyzed from SB-1 and one (1) soil sample was analyzed from SB-2 through SB-7. The laboratory report and site diagram were included in ENVIRON's draft memorandum dated January 15, 2007. The soil samples were analyzed for benzene-toluene-ethylbenzene-xylenes (BTEX), methyl-tertiary-butyl-ether (MTBE), total petroleum hydrocarbons (TPH), total petroleum hydrocarbons - gasoline range organics (TPH-GRO), diesel fuel, fuel oil, jet fuel, kerosene, mineral spirits and motor. TPH was observed to range from not observed above the laboratory detection limit to 30,200 mg/Kg in soil samples submitted for analyses by ENVIRON. TPH-GRO ranged from not observed above the laboratory detection limit to 15,000 mg/Kg in soil samples submitted for analyses by ENVIRON. The TPH and TPH-GRO concentrations observed in the soil sample analyzed from SB-1 (at 13 feet) exceeded the Allowable Concentration for total recoverable petroleum hydrocarbons (TRPH). The soil in this area was removed during the initial abatement activities. Groundwater samples were collected by ENVIRON from probes SB-3 through SB-6 for BTEX analyses. BTEX concentrations observed in the groundwater samples collected from SB-3 and SB-5 exceeded the Allowable Concentrations. It should be noted that probe water samples are generally considered qualitative since they were not collected from completed and developed groundwater monitoring wells.

Laboratory results for split groundwater samples BTB-SB-3 and BTB-4 collected during ENVIRON site assessment activities on January 9, 2007 are summarized in Table 2 attached to this letter. BTB-SB-3 and BTB-4 were collected from ENVIRON's probes SB-3 and SB-4, respectively, on January 9, 2007. BTEX concentrations were observed at relatively low concentrations in groundwater sample BTB-4 collected from SB-4 on January 9, 2007. Relatively high BTEX concentrations were observed in the groundwater sample collected by Paragon from probe SB-3 on January 9, 2007. BTEX concentrations observed in BTB-4 collected by Paragon from SB-4 in January 2007 were not observed above the Allowable Concentrations. The BTEX concentrations observed in the groundwater sample collected by Paragon from probe SB-3 exceeded the Allowable Concentrations. It should be noted that probe water samples are generally considered qualitative since they were not collected from completed and developed groundwater monitoring wells.

1.2 Abatement Activities

During a routine site inspection on January 7, 2007, Machii-Ross Petroleum Company personnel observed crude oil (product) in the bermed area for the southern aboveground storage tank (AST). The leak from the AST was repaired on January 7, 2007. It was estimated by Machii-Ross Petroleum Company personnel that approximately 70 barrels (bbls) of oil were released. Key Energy was mobilized to the site to recover the product on

January 8, 2007 using a vacuum truck. Excavation activities were also initiated on January 8, 2007. Soil abatement activities consisting of the excavation and off-site disposal of contaminated soil was performed at the site by Flint Energy Services, Inc. (Flint) between January 8, 2007 and January 16, 2007. The approximate limits of the excavation are shown on Figure 3 attached to this letter.

A subsurface drain located to the west of the tank battery was impacted and subsequently excavated. The drain was replaced and the former drain was connected to riser to be used as groundwater recovery points if necessary. In the excavation trench performed during removal of the subsurface drain, four (4) separate slotted horizontal drain lines were installed with risers extending approximately three (3) feet above ground surface. These remedial drains were constructed with two (2) and three (3) inch diameter PVC pipe. The trenches were excavated below observed hydrocarbon impact into what appeared to be a relatively impermeable, hard and dry siltstone. During the trench excavation, oil/groundwater was removed by a vacuum truck directly from the excavation and from the risers once installed.

On January 11, 2007 following interviews with the property owners, it was discovered that the subsurface drain was connected to an unnamed creek located to the west of the site. Product was then observed on the creek and the release was reported to the National Response Center, the COGCC and the Colorado Department of Public Health and Environment on January 11, 2007.

Paragon and Peterson Energy Management personnel installed booms at the outlet of the subsurface drain to the creek and at several other locations downstream. The booms were maintained and periodically replaced by Peterson Energy Management. Periodically, vacuum trucks were used to remove product from the creek and from vegetation near the creek. On January 12, 2007, the subsurface drain was flushed with approximately 500 gallons of BioSolve and the mixture was recovered from the downstream end of the pipe.

Approximately 100 cubic yards of contaminated soil were excavated from the subsurface drain area. The soil was transported by Flint to the Denver Regional Landfill in Erie, Colorado. Groundwater encountered in the bottom of the excavation during the abatement activities was removed using a vacuum truck. Approximately 10 bbls of oil were recovered during abatement activities. The excavation was backfilled with imported soil.

Seven (7) soil samples, T-1 through T-7, and 12 surface water samples were collected during the abatement process. The TRPH concentration observed in soil sample T-1 exceeded the Allowable Concentration. The excavation area could not be increased to the east of sample location T-1 due to the location of the ASTs. The TRPH concentrations observed in the remaining soil samples collected from the excavation were not observed above the Allowable

Concentration. Six (6) Creek Samples were collected from an area of the creek located to the north of County Road 20. Three (3) Tile Drain samples were collected approximately 60 feet upgradient of where the subsurface drain flowed into the creek. Three (3) Drain Outlet samples were collected from the subsurface drain outfall into the creek. BTEX concentrations observed in the surface water samples collected near the site in January and February 2007 were not observed above the Surface Water Standards.

1.3 Paragon Site Assessment Activities

Based on the soil and water contamination observed during excavation activities, additional site assessment was performed at the site in February 2007. Four (4) monitoring wells, PMW-1 through PMW-4, and three (3) direct-push probes, PB-1 through PB-3, were installed at the site on February 12 and 14, 2007 to obtain information regarding potential petroleum hydrocarbon contamination. The approximate locations of the monitoring wells and direct-push probes are shown on Figure 3 attached to this letter. The TRPH concentration observed in the soil sample analyzed from PB-2 exceeded the Allowable Concentration. The TRPH concentrations in soil samples analyzed from PMW-1, PMW-2, PMW-3, PMW-4, PB-1 and PB-3 were not observed above the Allowable Concentration of 1,000 mg/Kg.

2. GEOHYDROLOGY

Groundwater elevations in wells PMW-1, PMW-2, PMW-3 and PMW-4 were measured by Paragon on November 3, 2009. Groundwater elevation data for the site is summarized in Table 1 which is attached to this report. Groundwater was observed in wells PMW-1, PMW-2, PMW-3 and PMW-4 to range from approximately 3.9 to 8.5 feet below the top of casings on November 3, 2009. Free-phase product was not observed in monitoring wells PMW-1 through PMW-4 on November 3, 2009.

A piezometric surface diagram for groundwater elevations observed during the November 2009 sampling event is attached to this report as Figure 3. The piezometric surface was estimated using the Surfer[®] software distributed by Golden Software based on groundwater table measurements in wells PMW-1, PMW-2, PMW-3 and PMW-4. As seen from Figure 3, the general groundwater flow direction appeared to be towards the northwest. The hydraulic gradient observed at the site on November 3, 2009 was estimated to range from approximately 0.03 to 0.04. The groundwater flow direction and hydraulic gradient estimated for November 2009 are similar to previous observations at the site. It should be noted that local geohydrologic characteristics may change due to variations in precipitation, recharge, stratigraphy or conditions not apparent at the time of sampling.

3. GROUNDWATER QUALITY RESULTS

Information collected during the November 2009 sampling event relative to groundwater quality at the site is summarized below. That information includes temperature, electrical conductance and pH measurements, dissolved oxygen (DO) measurements, and laboratory results.

3.1 Field Data

Groundwater temperature, electrical conductance and pH measurements were performed on November 3, 2009 during purging of wells PMW-1 through PMW-4 prior to collecting groundwater samples for laboratory analysis. Purging of monitoring wells prior to sampling was accomplished using clean disposable bailers. Measurements were recorded during the removal of water from the wells. The wells were considered purged when temperature, electrical conductance, and pH measurements stabilized to within ten (10) percent for three (3) consecutive measurements and a minimum of three (3) well volumes were removed from the well or after the well was purged essentially dry. The wells were allowed to recharge prior to sampling.

DO measurements were performed in wells PMW-1 through PMW-4 on November 3, 2009. DO monitoring results are summarized in Table 2 attached to this report. As seen from Table 2, DO concentrations were observed to range from approximately 1.0 to 1.3 milligrams per liter (mg/L) during the November 2009 sampling episode. In general, an obvious correlation was not observed between BTEX concentrations observed in groundwater samples and DO measurements in August 2009.

3.2 Groundwater Analytical Results

Groundwater samples were collected from monitoring wells PMW-1 through PMW-4 on November 3, 2009 for laboratory analysis. Groundwater samples were transported under standard chain-of-custody procedures to Technology Laboratory, Inc. (TLI) in Fort Collins, Colorado for BTEX analysis by EPA Method 8260B. Groundwater sample results are summarized in Table 2 attached to this letter. The approximate locations of PMW-1 through PMW-4 and T-1 through T-5 are shown on Figure 4 attached to this letter. Recovery trench wells T-1 through T-5 are scheduled to be sampled every other event. The recovery trench wells were sampled in November 2009 for laboratory analysis. The TLI laboratory report is also attached to this letter.

BTEX concentrations were not observed above the laboratory detection limit of 1.0 micrograms per liter ($\mu\text{g/L}$) or were observed at relatively low concentrations in the groundwater samples collected from PMW-1 through PMW-4 and T-1 through T-5 on November 3, 2009. In general, the BTEX concentrations observed in the groundwater samples collected from PMW-1 through PMW-4 in November 2009 were similar to previous

sample results. The BTEX concentrations observed in the groundwater samples collected from T-1, T-2 and T-5 in November 2009 decreased significantly compared to previous sample results. In general, the benzene concentrations observed in the groundwater samples collected from T-3 and T-4 in November 2009 increased compared to previous sample results.

As seen from Table 2, the benzene concentrations in groundwater samples collected from T-3 and T-4 were observed at 7.0 and 5.0 micrograms per liter ($\mu\text{g/L}$), respectively, exceeding or observed at the Concentration Level of 5.0 $\mu\text{g/L}$. BTEX concentrations observed in the groundwater samples collected from PMW-1 through PMW-4, T-1, T-2 and T-5 on November 3, 2009 were not observed above the Concentration Levels.

4. VACUUM-ENHANCED RECOVERY EVENTS

Vacuum-enhanced recovery (VER) events using a Key Energy vacuum truck are typically performed at the recovery trenches, T-1 through T-5, on an approximate weekly basis. Even though T-1 riser pipe is damaged, Key energy is still able to recover from this riser pipe location. Approximately 40 to 70 barrels of groundwater are reportedly recovered during each event. As seen from Table 3, approximately 263,600 gallons of groundwater have been recovered from recovery wells T-1 through T-5 between March 2007 and October 2009. The recovered groundwater was transported to a COGCC-approved disposal well operated by Conquest Disposal Service. Key Energy work tickets are attached to this report for events performed in September and October 2009.

5. CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are made based on information obtained during the quarterly sampling event.

1. Groundwater was observed in wells PMW-1, PMW-2, PMW-3 and PMW-4 to range from approximately 3.9 to 8.5 feet below the top of casings on November 3, 2009. Free-phase product was not observed in monitoring wells PMW-1 through PMW-4 on November 3, 2009.
2. The general groundwater flow direction on November 3, 2009 appeared to be towards the northwest. The hydraulic gradient observed at the site on November 3, 2009 was estimated to range from approximately 0.03 to 0.04. The groundwater flow direction and hydraulic gradient estimated for November 3, 2009 are similar to previous observations at the site.

3. In general, the BTEX concentrations observed in the groundwater samples collected from PMW-1 through PMW-4 in November 2009 were similar to previous sample results. The BTEX concentrations observed in the groundwater samples collected from T-1, T-2 and T-5 in November 2009 decreased significantly compared to previous sample results. In general, the benzene concentrations observed in the groundwater samples collected from T-3 and T-4 in November 2009 increased compared to previous sample results.
4. The benzene concentrations in groundwater samples collected from T-3 and T-4 were observed at 7.0 and 5.0 micrograms per liter ($\mu\text{g/L}$), respectively, exceeding or observed at the Concentration Level of 5.0 $\mu\text{g/L}$. BTEX concentrations observed in the groundwater samples collected from PMW-1 through PMW-4, T-1, T-2 and T-5 on November 3, 2009 were not observed above the Concentration Levels.
5. The extent of groundwater impacts at the site appears to be limited and bracketed.
6. Approximately 263,600 gallons of groundwater have been recovered from recovery wells T-1 through T-5 between March 2007 and October 2009. The recovered groundwater was transported to a COGCC-approved disposal well operated by Conquest Disposal Service.

The following recommendations are made based on information obtained during the quarterly sampling event.

1. The groundwater monitoring wells should be sampled on a quarterly basis. The recovery trench locations should be sampled in six (6) months. Vacuum extraction activities could be temporarily discontinued at the recovery trench locations. The results of future sampling events should be used to evaluate the need for additional actions at the site.

6. GENERAL COMMENTS

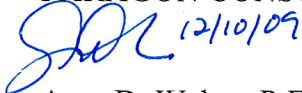
The analyses and opinions expressed in this report are based on data obtained from the indicated locations along with other information described in the report. The report does not reflect any variations in subsurface geohydrology or contaminant distribution which may occur between sample locations and or across the site. Actual subsurface conditions may vary and may not become evident without further exploration. Due to the dynamic nature of groundwater flow and contaminant migration, subsurface conditions will vary with time.

This report was prepared for the exclusive use of Machii-Ross Petroleum Company for specific application to the subject property and has been prepared in accordance with

generally accepted geo-environmental engineering practices. No warranties, either express or implied, are intended or made. In the event that changes in the nature or location of suspected sources of contamination as outlined in this report are observed, the conclusions and recommendations contained in this report shall not be valid unless these changes are reviewed and the opinions of this report are modified and verified in writing by Paragon.

If you have questions or require additional information regarding this site, please do not hesitate to contact us.

Sincerely,
PARAGON CONSULTING GROUP, INC.

Handwritten signature of Amy D. Weber in blue ink, dated 12/10/09.

Amy D. Weber, P.E.
Colorado No. 37665

Handwritten signature of David M. Rau in blue ink.

David M. Rau, P.E., BCEE
Principal Engineer

ADW/DMR:adw1

enc: Figure 1 - General Location Diagram
Figure 2 - Vicinity Map
Figure 3 - Piezometric Surface Diagram
Figure 4 - Groundwater Sample Results Diagram
Table 1 - Summary of Groundwater Elevation Data
Table 2 - Summary of Water Quality Results
Table 3 - Groundwater Recovery
Laboratory Report
Key Energy Work Tickets

cc: Mr. Neil Rehkop/SBC Global (via email)
Mr. Robert Chesson/COGCC (via email)
Mr. Andy Peterson/Peterson Energy Management (via email)

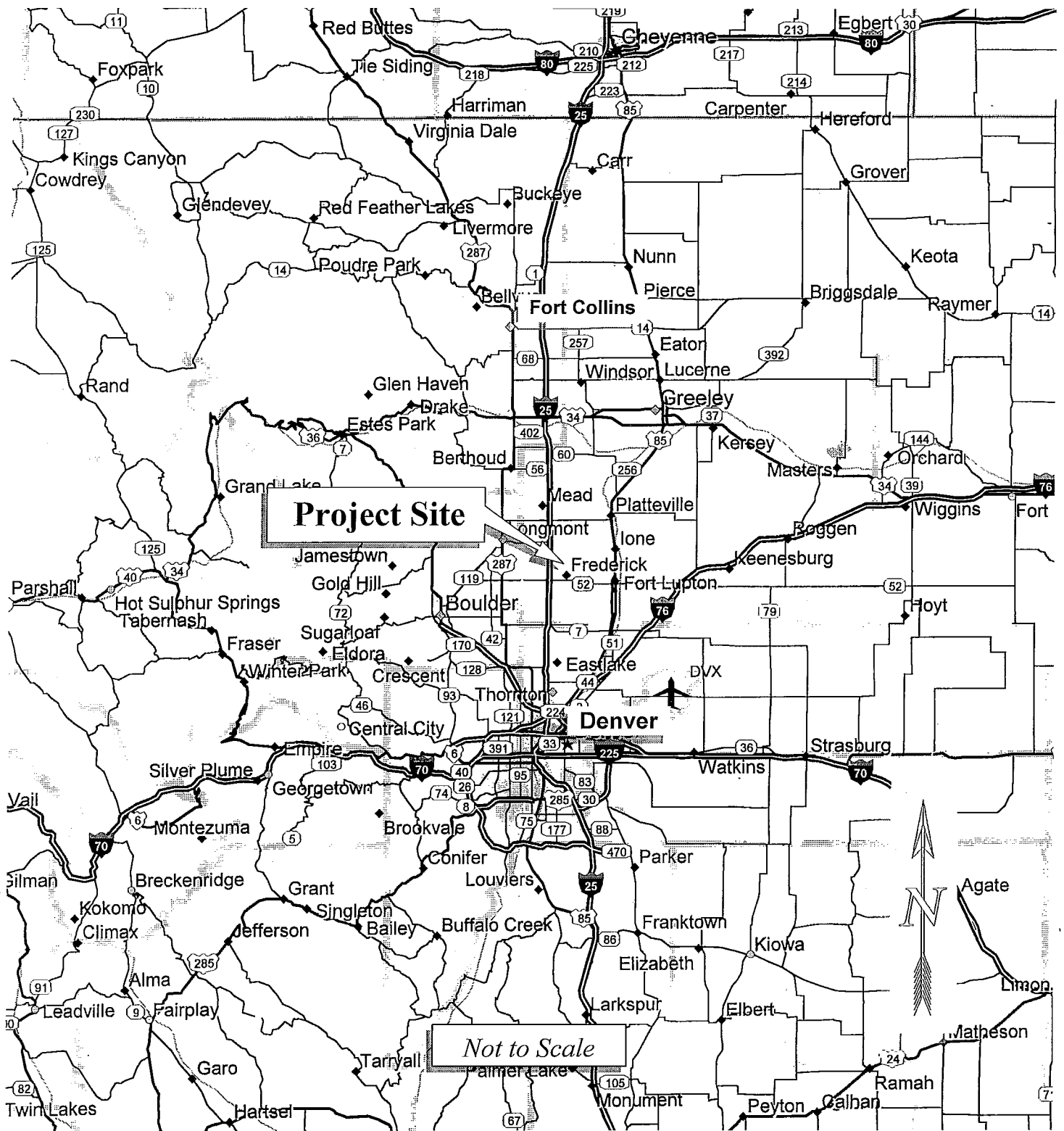


Figure 1 General Location Map
Machii-Ross Petroleum
Weld County Road 11, Weld County, Colorado
Project No. 1007001-1007004 March 2007 Drawn by PJH(04fig1)

PARAGON

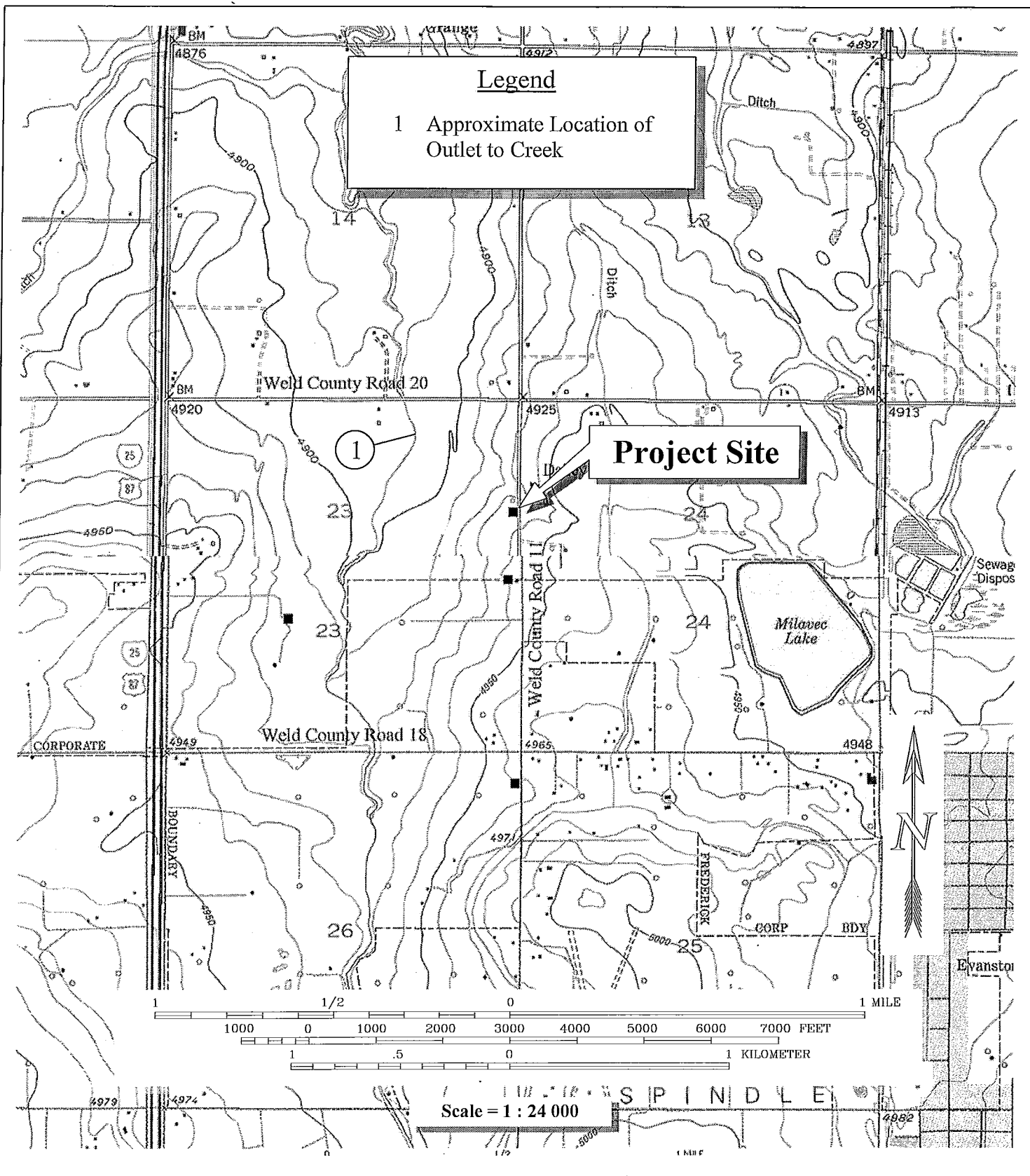
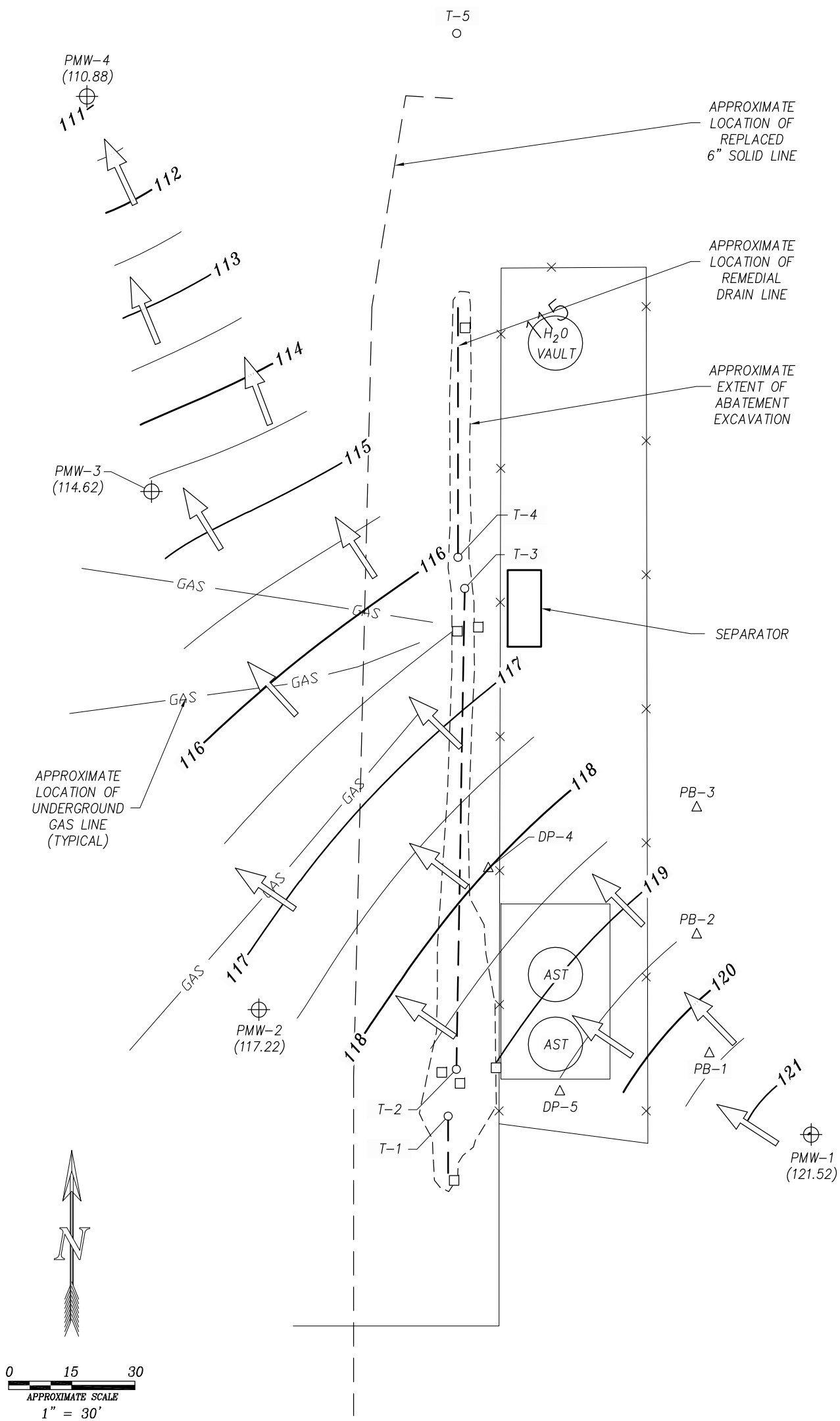


Figure 2 Vicinity Map
 Machii-Ross Petroleum – Berger Tank Battery
 Weld County Road 11 and Weld County Road 20, Weld County, Colorado
 Project No. 1007004 June 2007 Drawn by PJH(04fig2a)

PARAGON



County Road 11

Legend

- APPROXIMATE LOCATION OF REMEDIAL DRAIN LINE RISER
- △ APPROXIMATE LOCATION OF SOIL BORING
- ⊕ APPROXIMATE LOCATION OF MONITORING WELL
- APPROXIMATE LOCATION OF SOIL SAMPLE
- ← ESTIMATED DIRECTION OF GROUNDWATER FLOW
- 120 — ESTIMATED GROUNDWATER ELEVATION IN FEET ABOVE A COMMON DATUM

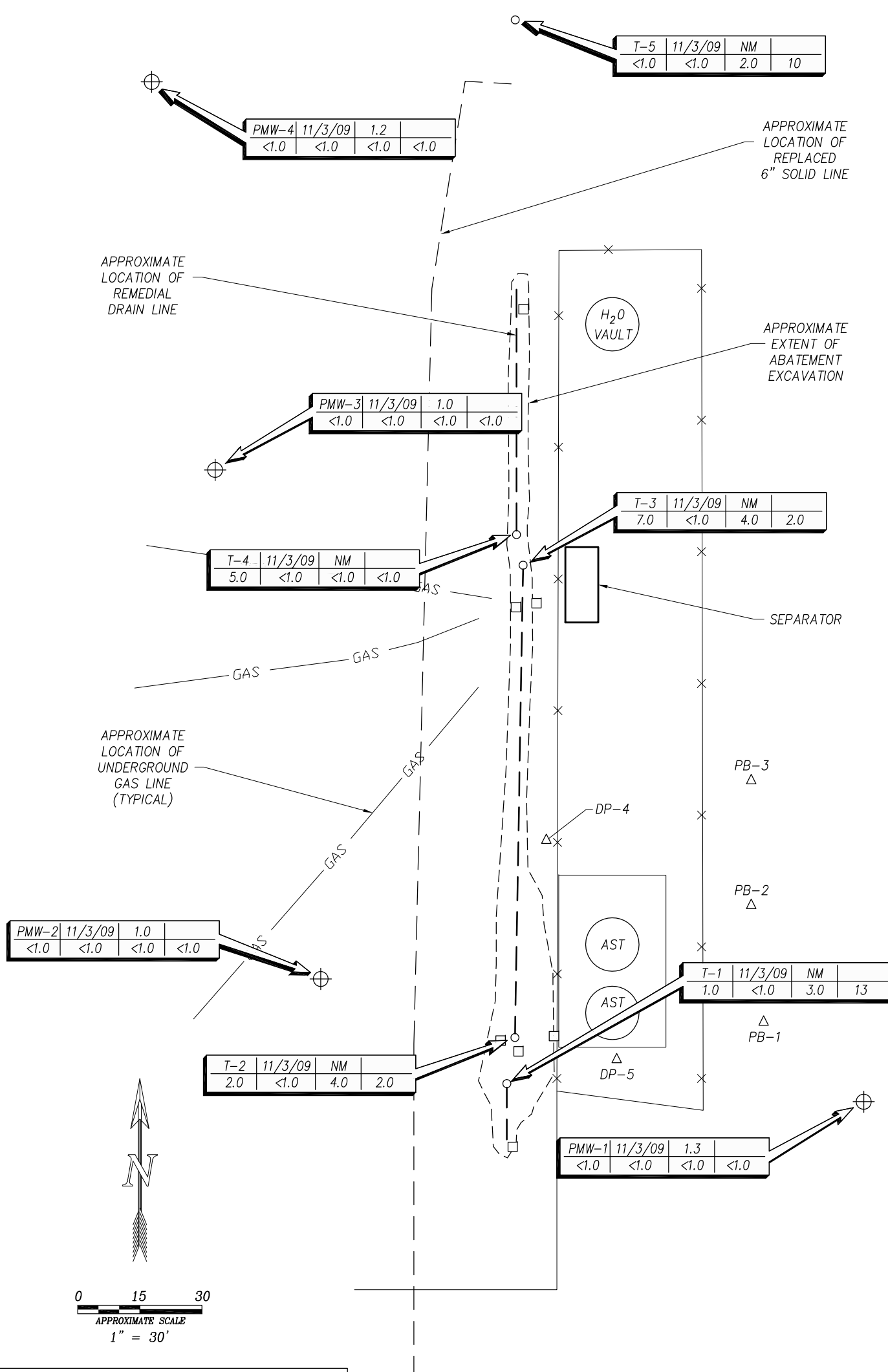
NOTE: GROUNDWATER CONTOURS WERE ESTIMATED USING THE "SURFER" PROGRAM FROM GOLDEN SOFTWARE BASED ON DATA COLLECTED FROM WELLS PMW-1, PMW-2, PMW-3, & PMW-4 ON NOVEMBER 3, 2009. ACTUAL CONDITIONS MAY VARY.

Figure 3 Piezometric Surface Diagram
Berger Tank Battery
Machii-Ross Petroleum Company
Weld County Road 11 & 20
Weld County, Colorado

Project Mngr:
ADW
Designed by:
PJM
Drawn by:
ADW
Checked by:
DMR
Approved by:

PARAGON
Consulting Group
Environmental Engineering
and Geohydrology
6901 Broadway
Denver, Colorado 80221

Project No:
1007004
Scale:
As Shown
File No:
04nov09
Date:
Nov 2009
Sheet No:



County Road 11

Legend

- APPROXIMATE LOCATION OF REMEDIAL DRAIN LINE RISER
- △ APPROXIMATE LOCATION OF SOIL BORING
- ⊕ APPROXIMATE LOCATION OF MONITORING WELL
- APPROXIMATE LOCATION OF SOIL SAMPLE

WHERE:

| SAMPLE NAME | SAMPLE DATE | DO | X |
|-------------|-------------|----|---|
| B | T | E | X |

B = BENZENE CONCENTRATION IN µg/L.
T = TOLUENE CONCENTRATION IN µg/L.
E = ETHYLBENZENE CONCENTRATION IN µg/L.
X = TOTAL XYLENES CONCENTRATION IN µg/L.
DO = DISSOLVED OXYGEN CONCENTRATION IN mg/L.
NM = NOT MEASURED.

Figure 4 Groundwater Quality Results Diagram
Berger Tank Battery
Machii-Ross Petroleum Company
Weld County Road 11 & 20
Weld County, Colorado

| | | |
|----------------------|--|------------------------|
| Project Mngr: ADW | PARAGON Consulting Group Environmental Engineering and Geohydrology 6901 Broadway Denver, Colorado 80221 | Project No: 1007004 |
| Designed by: | | Scale: As Shown |
| Drawn by: PJH | | File No: 04w1109 |
| Checked by: ADW | | Date: Nov 2009 |
| Approved by: DMR | | Sheet No: |

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

| Well Name | PMW-1 | PMW-2 | PMW-3 | PMW-4 |
|--|--------|--------|--------|--------|
| Casing Elevation (feet) | 125.44 | 124.82 | 121.50 | 119.41 |
| <u>Date Measured: March 1, 2007</u> | | | | |
| Depth to Water (feet) | 11.38 | 3.96 | 7.02 | 10.42 |
| Groundwater Elevation (feet) | 114.06 | 120.86 | 114.48 | 108.99 |
| <u>Date Measured: April 9, 2007</u> | | | | |
| Depth to Water (feet) | 3.99 | 7.60 | 6.71 | 9.61 |
| Groundwater Elevation (feet) | 121.45 | 117.22 | 114.79 | 109.80 |
| <u>Date Measured: June 13, 2007</u> | | | | |
| Depth to Water (feet) | 4.11 | 4.70 | 7.20 | 10.61 |
| Groundwater Elevation (feet) | 121.33 | 120.12 | 114.30 | 108.80 |
| <u>Date Measured: September 28, 2007</u> | | | | |
| Depth to Water (feet) | 3.85 | 8.25 | 8.00 | 11.18 |
| Groundwater Elevation (feet) | 121.59 | 116.57 | 113.50 | 108.23 |
| <u>Date Measured: January 28, 2008</u> | | | | |
| Depth to Water (feet) | 4.90 | 7.96 | NM | 9.79 |
| Groundwater Elevation (feet) | 120.54 | 116.86 | NM | 109.62 |
| <u>Date Measured: April 30, 2008</u> | | | | |
| Depth to Water (feet) | 4.68 | 7.60 | 6.80 | 9.52 |
| Groundwater Elevation (feet) | 120.76 | 117.22 | 114.70 | 109.89 |
| <u>Date Measured: July 21, 2008</u> | | | | |
| Depth to Water (feet) | 4.15 | 8.49 | 7.54 | 10.89 |
| Groundwater Elevation (feet) | 121.29 | 116.33 | 113.96 | 108.52 |
| <u>Date Measured: October 6, 2008</u> | | | | |
| Depth to Water (feet) | 3.82 | 8.26 | 7.08 | 9.58 |
| Groundwater Elevation (feet) | 121.62 | 116.56 | 114.42 | 109.83 |
| <u>Date Measured: May 12, 2009</u> | | | | |
| Depth to Water (feet) | 3.95 | 7.45 | 6.39 | 8.03 |
| Groundwater Elevation (feet) | 121.49 | 117.37 | 115.11 | 111.38 |
| <u>Date Measured: August 6, 2009</u> | | | | |
| Depth to Water (feet) | 3.11 | 8.13 | 6.94 | 8.78 |
| Groundwater Elevation (feet) | 122.33 | 116.69 | 114.56 | 110.63 |
| <u>Date Measured: November 3, 2009</u> | | | | |
| Depth to Water (feet) | 3.92 | 7.60 | 6.88 | 8.53 |
| Groundwater Elevation (feet) | 121.52 | 117.22 | 114.62 | 110.88 |

Notes:

1. Approximate well locations are shown on Figure 3.
2. NM = Not Measured.

TABLE 2
SUMMARY OF WATER QUALITY RESULTS
 (Page 1 of 3)

PROJECT NAME: Machii Ross/Berger Battery

PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado

PROJECT NUMBER: 1007004

| Sample Point Name | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|----------------|-------------------|-------------------|------------------------|-------------------|----------------------------|
| PMW-1 ¹¹ | 03/01/07 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 |
| PMW-1 | 04/09/07 | NS | NS | NS | NS | 1.1 |
| PMW-1 | 06/13/07 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 |
| PMW-1 | 09/28/07 | <0.5 | <0.5 | <0.5 | <0.5 | 0.1 |
| PMW-1 | 01/28/08 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 |
| PMW-1 | 04/30/08 | <0.5 | <0.5 | <0.5 | <0.5 | NM |
| PMW-1 | 07/21/08 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 |
| PMW-1 | 10/06/08 | <1. | <1. | <1. | <1. | 1.0 |
| PMW-1 | 05/12/09 | <1. | <1. | <1. | <1. | 0.8 |
| PMW-1 | 08/06/09 | <1. | <1. | <1. | <1. | 0.9 |
| PMW-1 | 11/03/09 | <1. | <1. | <1. | <1. | 1.3 |
| PMW-2 | 03/01/07 | NS | NS | NS | NS | 1.2 |
| PMW-2 | 04/09/07 | <0.5 | <0.5 | <0.5 | <0.5 | 1.1 |
| PMW-2 | 06/13/07 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 |
| PMW-2 | 09/28/07 | <0.5 | <0.5 | <0.5 | <0.5 | 0.3 |
| PMW-2 | 01/28/08 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 |
| PMW-2 | 04/30/08 | <0.5 | <0.5 | <0.5 | <0.5 | NM |
| PMW-2 | 07/21/08 | <0.5 | <0.5 | <0.5 | <0.5 | 1.0 |
| PMW-2 | 10/06/08 | <1. | <1. | <1. | <1. | 1.1 |
| PMW-2 | 05/12/09 | <1. | <1. | <1. | <1. | 1.1 |
| PMW-2 | 08/06/09 | <1. | <1. | <1. | <1. | 1.3 |
| PMW-2 | 11/03/09 | <1. | <1. | <1. | <1. | 1.0 |
| Concentration Levels | | 5.0 | 560. | 700. | 1,400. | NR |

Notes:

1. Approximate sample locations are shown on Figure 4.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. Concentration Levels for groundwater are described in Table 910-1 of Series 900 of the Colorado Oil & Gas Conservation Commission Rules and Regulations established April 1, 2009.
5. **Bold** concentrations indicate an exceedance of the Concentration Levels.
6. NR = Not Regulated.
7. NM = Not Measured.
8. NS = Not Sampled.
9. Groundwater levels did not appear to have stabilized in PMW-1, PMW-2 and PMW-3 since drilling and groundwater samples were not collected from these wells.
10. Groundwater samples BTB-SB-3 and BTB-4 were split samples collected from ENVIRON's probes SB-3 and SB-4, respectively, by Paragon personnel.
11. PMW-1 was inadvertently labeled as PMW-4 during the groundwater sampling performed in March 2007.

TABLE 2
SUMMARY OF WATER QUALITY RESULTS
 (Page 2 of 3)

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

| Sample Point Name | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|----------------|-------------------|-------------------|------------------------|-------------------|----------------------------|
| PMW-3 | 03/01/07 | NS | NS | NS | NS | 1.4 |
| PMW-3 | 04/09/07 | <0.5 | <0.5 | <0.5 | <0.5 | 1.0 |
| PMW-3 | 06/13/07 | <0.5 | <0.5 | <0.5 | <0.5 | 1.0 |
| PMW-3 | 09/28/07 | <0.5 | <0.5 | <0.5 | <0.5 | 0.4 |
| PMW-3 | 01/28/08 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 |
| PMW-3 | 04/30/08 | <0.5 | <0.5 | <0.5 | <0.5 | NM |
| PMW-3 | 07/21/08 | <0.5 | <0.5 | <0.5 | <0.5 | 1.1 |
| PMW-3 | 10/06/08 | <1. | <1. | <1. | <1. | 1.2 |
| PMW-3 | 05/12/09 | <1. | <1. | <1. | <1. | 1.0 |
| PMW-3 | 08/06/09 | <1. | <1. | <1. | <1. | 1.1 |
| PMW-3 | 11/03/09 | <1. | <1. | <1. | <1. | 1.0 |
| PMW-4 | 03/01/07 | NS | NS | NS | NS | 1.8 |
| PMW-4 | 04/09/07 | <0.5 | <0.5 | <0.5 | <0.5 | 1.0 |
| PMW-4 | 06/13/07 | <0.5 | <0.5 | <0.5 | <0.5 | 1.0 |
| PMW-4 | 09/28/07 | <0.5 | <0.5 | <0.5 | <0.5 | 2.2 |
| PMW-4 | 01/28/08 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 |
| PMW-4 | 04/30/08 | <0.5 | <0.5 | <0.5 | <0.5 | NM |
| PMW-4 | 07/21/08 | <0.5 | <0.5 | <0.5 | <0.5 | 1.3 |
| PMW-4 | 10/06/08 | <1. | <1. | <1. | <1. | 1.0 |
| PMW-4 | 05/12/09 | <1. | <1. | <1. | <1. | 1.1 |
| PMW-4 | 08/06/09 | <1. | <1. | <1. | <1. | 1.0 |
| PMW-4 | 11/03/09 | <1. | <1. | <1. | <1. | 1.2 |
| BTB-SB-3 | 01/09/07 | 20,047. | 97,441. | 10,824. | 142,796. | NM |
| BTB-4 | 01/09/07 | 3.5 | 65. | 6.0 | 98. | NM |
| Concentration Levels | | 5.0 | 560. | 700. | 1,400. | NR |

Notes:

1. Approximate sample locations are shown on Figure 4.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. Concentration Levels for groundwater are described in Table 910-1 of Series 900 of the Colorado Oil & Gas Conservation Commission Rules and Regulations established April 1, 2009.
5. **Bold** concentrations indicate an exceedance of the Concentration Levels.
6. NR = Not Regulated.
7. NM = Not Measured.
8. NS = Not Sampled.
9. Groundwater levels did not appear to have stabilized in PMW-1, PMW-2 and PMW-3 since drilling and groundwater samples were not collected from these wells.
10. Groundwater samples BTB-SB-3 and BTB-4 were split samples collected from ENVIRON's probes SB-3 and SB-4, respectively, by Paragon personnel.
11. PMW-1 was inadvertently labeled as PMW-4 during the groundwater sampling performed in March 2007.

TABLE 2
SUMMARY OF WATER QUALITY RESULTS
 (Page 3 of 3)

PROJECT NAME: Machii Ross/Berger Battery

PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado

PROJECT NUMBER: 1007004

| Sample Point Name | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|----------------|-------------------|-------------------|------------------------|-------------------|----------------------------|
| T-1 | 06/25/07 | 517. | 1,877. | 11. | 4,397. | NM |
| T-1 | 01/28/08 | NS | NS | NS | NS | NM |
| T-1 | 07/21/08 | 134. | 129. | 124. | 1,550. | NM |
| T-1 | 05/12/09 | NS | NS | NS | NS | NM |
| T-1 | 11/03/09 | 1. | <1. | 3. | 13. | NM |
| T-2 | 06/25/07 | 868. | 775. | 12. | 6,330. | NM |
| T-2 | 01/28/08 | 300. | 49. | <0.5 | 1,415. | NM |
| T-2 | 07/21/08 | 289. | 55. | 150. | 1,961. | NM |
| T-2 | 05/12/09 | 94. | 65. | 32. | 663. | NM |
| T-2 | 11/03/09 | 2. | <1. | 4. | 2. | NM |
| T-3 | 06/25/07 | 394. | 24. | <0.5 | 3,449. | NM |
| T-3 | 01/28/08 | 214. | 8.1 | <0.5 | 627. | NM |
| T-3 | 07/21/08 | 199. | 3.5 | 48. | 246. | NM |
| T-3 | 05/12/09 | <1. | <1. | <1. | <1. | NM |
| T-3 | 11/03/09 | 7. | <1. | 4. | 2. | NM |
| T-4 | 06/25/07 | 240. | 2.2 | <0.5 | 1,270. | NM |
| T-4 | 01/28/08 | 44. | 0.7 | <0.5 | 28. | NM |
| T-4 | 07/21/08 | 172. | 6.6 | 17. | 66. | NM |
| T-4 | 05/12/09 | <1. | <1. | <1. | <1. | NM |
| T-4 | 11/03/09 | 5. | <1. | <1. | <1. | NM |
| T-5 | 06/25/07 | 1,451. | 692. | 426. | 6,938. | NM |
| T-5 | 01/28/08 | 168. | <0.5 | 132. | 1,547. | NM |
| T-5 | 07/21/08 | 177. | 7.5 | 226. | 1,216. | NM |
| T-5 | 05/12/09 | 11. | <1. | 40. | 165. | NM |
| T-5 | 11/03/09 | <1. | <1. | 2. | 10. | NM |
| Concentration Levels | | 5.0 | 560. | 700. | 1,400. | NR |

Notes:

1. Approximate sample locations are shown on Figure 4.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. Concentration Levels for groundwater are described in Table 910-1 of Series 900 of the Colorado Oil & Gas Conservation Commission Rules and Regulations established April 1, 2009.
5. **Bold** concentrations indicate an exceedance of the Concentration Levels.
6. NR = Not Regulated.
7. NM = Not Measured.
8. NS = Not Sampled.
9. Groundwater levels did not appear to have stabilized in PMW-1, PMW-2 and PMW-3 since drilling and groundwater samples were not collected from these wells.
10. Groundwater samples BTB-SB-3 and BTB-4 were split samples collected from ENVIRON's probes SB-3 and SB-4, respectively, by Paragon personnel.
11. PMW-1 was inadvertently labeled as PMW-4 during the groundwater sampling performed in March 2007.

TABLE 3
GROUNDWATER RECOVERY
(Page 1 of 3)

PROJECT NAME: Machii Ross/Berger Battery

PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado

PROJECT NUMBER: 1007004

| DATE | WELL NAME | AMOUNT RECOVERED (gal) | RECOVERY METHOD |
|------------|-----------------|------------------------|-------------------------|
| 3/23/2007 | T-1 through T-5 | 1,050 | vacuum extraction truck |
| 5/29/2007 | T-1 through T-5 | 2,310 | vacuum extraction truck |
| 5/31/2007 | T-1 through T-5 | 2,100 | vacuum extraction truck |
| 6/4/2007 | T-1 through T-5 | 2,310 | vacuum extraction truck |
| 7/3/2007 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 7/5/2007 | T-1 through T-5 | 2,310 | vacuum extraction truck |
| 7/9/2007 | T-1 through T-5 | 2,310 | vacuum extraction truck |
| 7/16/2007 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 7/23/2007 | T-1 through T-5 | 2,184 | vacuum extraction truck |
| 7/30/2007 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 8/20/2007 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 8/27/2007 | T-1 through T-5 | 1,890 | vacuum extraction truck |
| 9/4/2007 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 9/18/2007 | T-1 through T-5 | 1,680 | vacuum extraction truck |
| 10/8/2007 | T-1 through T-5 | 2,100 | vacuum extraction truck |
| 10/15/2007 | T-1 through T-5 | 1,680 | vacuum extraction truck |
| 10/22/2007 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 10/29/2007 | T-1 through T-5 | 2,184 | vacuum extraction truck |
| 11/5/2007 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 11/14/2007 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 11/19/2007 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 12/3/2007 | T-1 through T-5 | 1,470 | vacuum extraction truck |
| 12/10/2007 | T-1 through T-5 | 1,722 | vacuum extraction truck |
| 12/17/2007 | T-1 through T-5 | 1,638 | vacuum extraction truck |
| 12/26/2007 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 1/2/2008 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 1/7/2008 | T-1 through T-5 | 1,974 | vacuum extraction truck |
| 1/14/2008 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 1/21/2008 | T-1 through T-5 | 2,646 | vacuum extraction truck |
| 1/29/2008 | T-1 through T-5 | 1,764 | vacuum extraction truck |
| 2/4/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 2/11/2008 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 2/18/2008 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 3/3/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 3/10/2008 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 3/17/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 3/24/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 3/31/2008 | T-1 through T-5 | 2940 | vacuum extraction truck |
| 4/8/2008 | T-1 through T-5 | 2,058 | vacuum extraction truck |
| 4/14/2008 | T-1 through T-5 | 2,436 | vacuum extraction truck |
| 4/23/2008 | T-1 through T-5 | 2,100 | vacuum extraction truck |
| 4/28/2008 | T-1 through T-5 | NR | vacuum extraction truck |
| 5/5/2008 | T-1 through T-5 | 2,436 | vacuum extraction truck |
| 5/15/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 5/19/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 5/27/2008 | T-1 through T-5 | NR | vacuum extraction truck |

Notes:

1) Approximate sample locations are shown on Figure 3.

PARAGON

TABLE 3
GROUNDWATER RECOVERY
 (Page 2 of 3)

PROJECT NAME: Machii Ross/Berger Battery

PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado

PROJECT NUMBER: 1007004

| DATE | WELL NAME | AMOUNT RECOVERED (gal) | RECOVERY METHOD |
|------------|-----------------|------------------------|-------------------------|
| 6/2/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 6/10/2008 | T-1 through T-5 | 2,814 | vacuum extraction truck |
| 6/16/2008 | T-1 through T-5 | 2,142 | vacuum extraction truck |
| 6/24/2008 | T-1 through T-5 | 2,604 | vacuum extraction truck |
| 6/30/2008 | T-1 through T-5 | 2,814 | vacuum extraction truck |
| 7/7/2008 | T-1 through T-5 | 1,848 | vacuum extraction truck |
| 7/14/2008 | T-1 through T-5 | NR | vacuum extraction truck |
| 7/22/2008 | T-1 through T-5 | 1,974 | vacuum extraction truck |
| 7/28/2008 | T-1 through T-5 | 3,066 | vacuum extraction truck |
| 8/4/2008 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 8/13/2008 | T-1 through T-5 | 1,680 | vacuum extraction truck |
| 8/18/2008 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 8/25/2008 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 9/3/2008 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 9/8/2008 | T-1 through T-5 | 1,848 | vacuum extraction truck |
| 9/22/2008 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 9/29/2008 | T-1 through T-5 | 2,310 | vacuum extraction truck |
| 10/6/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 10/13/2008 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 11/3/2008 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 11/10/2008 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 11/17/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 11/24/2008 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 12/1/2008 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 12/8/2008 | T-1 through T-5 | 2,310 | vacuum extraction truck |
| 12/15/2008 | T-1 through T-5 | 2,268 | vacuum extraction truck |
| 12/22/2008 | T-1 through T-5 | 1,974 | vacuum extraction truck |
| 12/29/2008 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 1/5/2009 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 1/12/2009 | T-1 through T-5 | 2,058 | vacuum extraction truck |
| 1/19/2009 | T-1 through T-5 | 1,680 | vacuum extraction truck |
| 1/26/2009 | T-1 through T-5 | 2,310 | vacuum extraction truck |
| 2/2/2009 | T-1 through T-5 | 2,142 | vacuum extraction truck |
| 2/9/2009 | T-1 through T-5 | 1,680 | vacuum extraction truck |
| 2/16/2009 | T-1 through T-5 | 2,142 | vacuum extraction truck |
| 2/23/2009 | T-1 through T-5 | 2,142 | vacuum extraction truck |
| 3/2/2009 | T-1 through T-5 | 1,890 | vacuum extraction truck |
| 3/9/2009 | T-1 through T-5 | 2,436 | vacuum extraction truck |
| 3/23/2009 | T-1 through T-5 | 2,730 | vacuum extraction truck |

Notes:

1) Approximate sample locations are shown on Figure 3.

TABLE 3
GROUNDWATER RECOVERY
 (Page 3 of 3)

PROJECT NAME: Machii Ross/Berger Battery

PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado

PROJECT NUMBER: 1007004

| DATE | WELL NAME | AMOUNT RECOVERED (gal) | RECOVERY METHOD |
|-----------------------------|-----------------|------------------------|-------------------------|
| 3/30/2009 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 4/6/2009 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 4/13/2009 | T-1 through T-5 | 2,562 | vacuum extraction truck |
| 4/20/2009 | T-1 through T-5 | 2,898 | vacuum extraction truck |
| 4/27/2009 | T-1 through T-5 | 2,562 | vacuum extraction truck |
| 5/4/2009 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 5/11/2009 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 5/18/2009 | T-1 through T-5 | 2,520 | vacuum extraction truck |
| 5/26/2009 | T-1 through T-5 | 2,184 | vacuum extraction truck |
| 6/1/2009 | T-1 through T-5 | 2,268 | vacuum extraction truck |
| 6/8/2009 | T-1 through T-5 | 2,142 | vacuum extraction truck |
| 6/15/2009 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 6/22/2009 | T-1 through T-5 | 2,394 | vacuum extraction truck |
| 6/29/2009 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 7/6/2009 | T-1 through T-5 | 2,478 | vacuum extraction truck |
| 7/13/2009 | T-1 through T-5 | NR | vacuum extraction truck |
| 7/20/2009 | T-1 through T-5 | 2,562 | vacuum extraction truck |
| 7/27/2009 | T-1 through T-5 | 1,806 | vacuum extraction truck |
| 8/3/2009 | T-1 through T-5 | 2,730 | vacuum extraction truck |
| 8/10/2009 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 8/17/2009 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 8/24/2009 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 8/31/2009 | T-1 through T-5 | 2,268 | vacuum extraction truck |
| 9/14/2009 | T-1 through T-5 | 2,940 | vacuum extraction truck |
| 9/28/2009 | T-1 through T-5 | 3,150 | vacuum extraction truck |
| 10/12/2009 | T-1 through T-5 | 2,268 | vacuum extraction truck |
| 10/26/2009 | T-1 through T-5 | 2,436 | vacuum extraction truck |
| TOTAL LIQUID REMOVED | | 263,592 | |

Notes:

1) Approximate sample locations are shown on Figure 3.



TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

Paragon Consulting Group, Inc.
1103 Oak Park Drive
Fort Collins, CO 80525

Date Received: 11/03/09

Matrix: Water

Project No.: 1007004

| <u>Lab ID</u> | <u>Sample ID</u> | <u>Date Sampled</u> | <u>Date Analyzed</u> | <u>Benzene mg/L</u> | <u>Toluene mg/L</u> | <u>Ethylbenzene mg/L</u> | <u>Total Xylenes mg/L</u> |
|---------------|------------------|-------------------------|--------------------------|-------------------------|-------------------------|------------------------------|-------------------------------|
| 9420-01 | PMW-1 | 11/03/09 | 11/03/09 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| 9420-02 | PMW-2 | 11/03/09 | 11/03/09 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| 9420-03 | PMW-3 | 11/03/09 | 11/03/09 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| 9420-04 | PMW-4 | 11/03/09 | 11/03/09 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| 9420-05 | T-1 | 11/03/09 | 11/03/09 | 0.001 | < 0.001 | 0.003 | 0.013 |
| 9420-06 | T-2 | 11/03/09 | 11/03/09 | 0.002 | < 0.001 | 0.004 | 0.002 |
| 9420-07 | T-3 | 11/03/09 | 11/03/09 | 0.007 | < 0.001 | 0.004 | 0.002 |
| 9420-08 | T-4 | 11/03/09 | 11/03/09 | 0.005 | < 0.001 | < 0.001 | < 0.001 |
| 9420-09 | T-5 | 11/03/09 | 11/03/09 | < 0.001 | < 0.001 | 0.002 | 0.010 |

BTEX Method:

EPA-8260B

Todd Rhea



TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

QA/QC SURROGATE RECOVERY

Paragon Consulting Group, Inc.
1103 Oak Park Drive
Fort Collins, CO 80525

Date Received: 11/03/09

Matrix: Water

Project No.: 1007004

(% Recovery)

| <u>Lab ID</u> | <u>Sample ID</u> | Bromofluorobenzene | Dibromofluoromethane | Toluene-d8 |
|---------------|------------------|-------------------------|-------------------------|-------------------------|
| | | <u>Limits (70-113%)</u> | <u>Limits (68-120%)</u> | <u>Limits (81-128%)</u> |
| 9420-01 | PMW-1 | 89 | 98 | 101 |
| 9420-02 | PMW-2 | 90 | 97 | 101 |
| 9420-03 | PMW-3 | 90 | 99 | 102 |
| 9420-04 | PMW-4 | 92 | 97 | 102 |
| 9420-05 | T-1 | 91 | 95 | 100 |
| 9420-06 | T-2 | 91 | 100 | 102 |
| 9420-07 | T-3 | 92 | 96 | 101 |
| 9420-08 | T-4 | 91 | 99 | 101 |
| 9420-09 | T-5 | 91 | 95 | 100 |

Todd Pheasant

Customer Name/No. **MACHU ROSS PETROLEUM** County/Parish **WELD** State **CO**
Contact **Andy** Service Location **BERGER 41-23 N 111 W**
Directions to Location: **H85S-H52W-R11 N TO LOCATION**

Yard No. **0327** Unit/Asset No. **0164520** Manifest **41-23 N 111 W** RCC No.
SWD Name ☐ Key SWD ☐ Customer SWD ☐ Public SWD Disposal Ticket No.

WORK TICKET DESCRIPTION:

| Start | End | Description | # BBL | Oil/Water | Rec'd By |
|---------|----------|---|-------|-----------|----------|
| 7:00 AM | 11:30 AM | PULLED ON 5 RAISERS Hauled to CONQUEST | 75 | W | |

| Tank No. | Tank No. | Tank No. | Mileage Start | Mileage End |
|--------------|--------------|--------------|---------------|-------------|
| | | | 4080 | 4086 |
| Top Gauge | Top Gauge | Top Gauge | State | State |
| | | | | |
| Bottom Gauge | Bottom Gauge | Bottom Gauge | State | State |
| | | | | |

SAFETY EQUIPMENT REQUIRED TO DO THIS JOB:

- ☒ Hard Hat ☒ Safety Belts ☐ Safety Harness / Anti Fall Device ☒ Proper Clothing ☒ Hearing Protection
☒ Fire Extinguishers ☒ Steel Toed Boots ☒ Cotton / Rubber Gloves ☒ Safety Glasses ☐ Other - Explain:
☐ Face Shields / Goggles ☒ Wheel Chock/Cones ☐ Confined Space Permit ☐ Work Permit Required
☐ H2S / Tri Monitors ☐ Back Support Belts ☐ Lock Out/Tag Out ☐ Ground Cable

PRE-JOB HAZARD ASSESSMENT:

| Lifting | Hazards | Body Position/Movement | Environmental Condition |
|--|--|--|---|
| Manual Lifting (Body Position) <input type="checkbox"/> Y <input type="checkbox"/> N | Proper Tool/Material Placement <input type="checkbox"/> Y <input type="checkbox"/> N | Climbing <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> Day <input type="checkbox"/> Night <input checked="" type="checkbox"/> Clear |
| Mechanical Lifting Equipment <input type="checkbox"/> Y <input type="checkbox"/> N | Hot/Cold Surface or Material <input type="checkbox"/> Y <input type="checkbox"/> N | Pulling, Pushing <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Drizzle <input type="checkbox"/> Humid <input type="checkbox"/> Rain |
| Awkward Body Position <input type="checkbox"/> Y <input type="checkbox"/> N | Inadequate Lighting <input type="checkbox"/> Y <input type="checkbox"/> N | Bonding <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Ice <input type="checkbox"/> Snow <input type="checkbox"/> Dust <input type="checkbox"/> Fog |
| Slip/Trip Potential <input type="checkbox"/> Y <input type="checkbox"/> N | Fall Protection/Anchor Points <input type="checkbox"/> Y <input type="checkbox"/> N | Twisting Motion <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Temp <input type="checkbox"/> Degrees |
| Lifting w/Other Employees <input type="checkbox"/> Y <input type="checkbox"/> N | Pinch Points <input type="checkbox"/> Y <input type="checkbox"/> N | Walking <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Wind <input type="checkbox"/> mph |
| Proper Rigging Practices <input type="checkbox"/> Y <input type="checkbox"/> N | Trenching/Excavation <input type="checkbox"/> Y <input type="checkbox"/> N | Swinging <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Chains Required |
| | Hand and Finger Hazards <input type="checkbox"/> Y <input type="checkbox"/> N | Straining <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Steep Grades |
| Access/Fall | Electrical Hazards <input type="checkbox"/> Y <input type="checkbox"/> N | Stretching <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Mud |
| Scaffold (properly inspected) <input type="checkbox"/> Y <input type="checkbox"/> N | Welding/Flame Cutting <input type="checkbox"/> Y <input type="checkbox"/> N | Reaching <input type="checkbox"/> Y <input type="checkbox"/> N | Condition |
| Ladder <input type="checkbox"/> Y <input type="checkbox"/> N | Mechanical Equipment <input type="checkbox"/> Y <input type="checkbox"/> N | Over Extending <input type="checkbox"/> Y <input type="checkbox"/> N | |
| Hoisting of Tools/Materials <input type="checkbox"/> Y <input type="checkbox"/> N | Environmental <input type="checkbox"/> Y <input type="checkbox"/> N | Jumping <input type="checkbox"/> Y <input type="checkbox"/> N | |
| Secure Footing <input type="checkbox"/> Y <input type="checkbox"/> N | Pollution (Personal Exposure) <input type="checkbox"/> Y <input type="checkbox"/> N | Crawling <input type="checkbox"/> Y <input type="checkbox"/> N | |

| SEQUENCE OF BASIC JOB STEPS | POTENTIAL AT-RISK BEHAVIORS OR OTHER HAZARDS | POTENTIAL HANE AND/OR FINGER HAZARDS | ACTION TAKEN TO ELIMINATE OR REDUCE POTENTIAL HAZARDS |
|--------------------------------|--|--------------------------------------|---|
| SECURE ROSE: FILL PUNCH POINTS | | CAN LOCKS | WEAR GLOVES |
| WASH DOWN | SPILL POTENTIALS | | SECURE CHAINS |
| UNLOADING | FIRE POTENTIAL | | GRABBER CABLE |

Key Approval - Date: **9-29-09** Customer Approval - Date:

RECEIVED
NOV 17 2009
PARAGON



Date: **9-28-09** Work Ticket No. **T1355985**
S M T W T F S

T1355985

| Asset | Service Code | Description | Qty | Rate | Total |
|----------------|--------------|--|------------|--------------|---------------|
| 0164520 | 30043 | <input type="checkbox"/> Transport <input checked="" type="checkbox"/> Trans/Vac <input type="checkbox"/> Vacuum | | | |
| | | Minimum <input type="checkbox"/> 130 BBL <input checked="" type="checkbox"/> 60-80 BBL <input type="checkbox"/> 50 BBL | 4.5 | 79.00 | 333.00 |
| | | <input checked="" type="checkbox"/> Hour <input type="checkbox"/> Barrel <input type="checkbox"/> Load <input type="checkbox"/> 130 BBL <input type="checkbox"/> 60-80 BBL <input type="checkbox"/> 50 BBL | | | |
| | | Pump/Kill Truck Minimum <input type="checkbox"/> 130 BBL <input type="checkbox"/> 60-80 BBL <input type="checkbox"/> 50 BBL | | | |
| | | Pump/Kill Truck Hourly <input type="checkbox"/> 130 BBL <input type="checkbox"/> 60-80 BBL <input type="checkbox"/> 50 BBL | | | |
| | | Hot Oil Unit Minimum <input type="checkbox"/> 130 BBL <input type="checkbox"/> 75 BBL | | | |
| | | Hot Oil Unit Hourly <input type="checkbox"/> 130 BBL <input type="checkbox"/> 75 BBL | | | |
| | | Hot Oil by the BBL | | | |
| | | Propane | | | |
| | | Winch Truck Minimum <input type="checkbox"/> Light Duty <input type="checkbox"/> Heavy Duty | | | |
| | | Winch Truck Hourly <input type="checkbox"/> Light Duty <input type="checkbox"/> Heavy Duty | | | |
| | | Haul, Set & Deliver Equipment | | | |
| | | <input type="checkbox"/> Swamper <input type="checkbox"/> Special Fluid Helper | | | |
| | | Supervisor <input type="checkbox"/> Truck <input type="checkbox"/> Acid <input type="checkbox"/> Special Fluid | | | |
| | | Fresh Water Key Owned | | | |
| | | Fresh Water Non Key | | | |
| | | Brine Water Key Owned | | | |
| | | Brine Water Non Key | | | |
| | | Disposal Key Owned <input type="checkbox"/> Solid <input type="checkbox"/> B/S | | | |
| | | Disposal Non Key <input type="checkbox"/> Solid <input type="checkbox"/> B/S | | | |
| | | Disposal Key Owned <input type="checkbox"/> Produced <input type="checkbox"/> Flowback | | | |
| | | Disposal Non Key <input type="checkbox"/> Produced <input type="checkbox"/> Flowback | | | |
| | | Third Party | | | |
| | | KCL (Potassium Chloride) Powdered | | | |
| | | KCL Substitute | | | |
| | | KCL <input type="checkbox"/> 2% <input type="checkbox"/> 3% <input type="checkbox"/> 4% <input type="checkbox"/> Other | | | |
| | | Chemicals - Specify | | | |
| | | FUEL <input type="checkbox"/> Fuel Surcharge <input type="checkbox"/> Fuel Charge | | | |

*Sales tax calculated on invoice

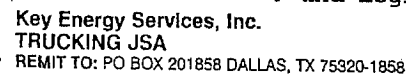
Sub Total **333.00**

PAYROLL:

| Class | Employee No. | Employee Name / Signature | Start | End | Work | Travel | Down | Other | Total Hours |
|---------|--------------|---------------------------|-------------|--------------|------------|--------|------|-------|-------------|
| DRIVER | 42373 | LUISA VILLAGOMEZ | 7:00 | 11:30 | 4.5 | | | | 4.5 |
| SWAMPER | | Luisa Villagomez | AM | PM | | | | | |
| TRAINER | | | | | | | | | |

No Signature Required

DAT005 8/08



Date: 10-12-09 Work Ticket No. T1355334
S (M) T W T F S

T1355334

| Class | Employee No. | Employee Name / Signature | Start | End | Work | Travel | Down | Time | Total Hours |
|------------------------------|--------------|-----------------------------|-------|-------|------|--------|------|------|-------------|
| SEWER SWAMPING TRAINEE | 33205 | Eng. Ezekiel R. [Signature] | 8:00 | 12:00 | 4.0 | - | - | - | 4.0 |
| | | | AM | PM | | | | | |

☒ No Signature Required



Date: 10-27-09 Work Ticket No. T1244092
S M T W T F S

Customer Name/No. Mach II Ross Petroleum Co. County/Parish Weld State Co.
Contact Andy Service Location (Berger Battery) Non PA
Directions to Location E 26 E - I 25 N - H 52 E - R I I N - W I N T E .
Yard No. 0327 Unit/Asset No. 0106319 Manifest 4/1/03 RCC No. 4/1/03
SWD Name 0327 ☐ Key SWD ☐ Customer SWD ☐ Public SWD Disposal Ticket No. 0106319

WORK TICKET DESCRIPTION:

| Start | End | Description | # BBL | Oil/Water | Rec'd By |
|----------|---------|---------------------------------|-------|-----------|----------|
| 10:00 AM | 1:30 PM | Pull on five rises | 58 | | |
| | | Deliver liquids to Conquest #2. | | | |
| | | * No product detected | | | |

| Tank No. | Tank No. | Tank No. | Mileage Start | Mileage End |
|--------------|--------------|--------------|-----------------|-----------------|
| Top Gauge | Top Gauge | Top Gauge | | |
| Bottom Gauge | Bottom Gauge | Bottom Gauge | Ita _____ State | Ita _____ State |

SAFETY EQUIPMENT REQUIRED TO DO THIS JOB:

- ☒ Hard Hat ☒ Safety Belts ☐ Safety Harness / Anti Fall Device ☒ Proper Clothing ☐ Hearing Protection
☒ Fire Extinguishers ☒ Steel Toed Boots ☐ Cotton/ Rubber Gloves ☒ Safety Glasses ☐ Other - Explain:
☐ Face Shields / Goggles ☐ Wheel Chock/Cones ☐ Confined Space Permit ☐ Work Permit Required
☐ H2S / Tri-Monitors ☐ Back Support Belts ☐ Lock Out/Tag Out ☐ Ground Cable

PRE-JOB HAZARD ASSESSMENT:

Lifting
Manual Lifting (Body Position) ☐ Y ☐ N ☐ Proper Tool/Material Placement ☐ Y ☐ N ☐ Climbing ☐ Y ☐ N ☐ Day ☐ Night ☐ Clear
Mechanical Lifting Equipment ☐ Y ☐ N ☐ Hot/Cold Surface or Material ☐ Y ☐ N ☐ Pulling, Pushing ☐ Y ☐ N ☐ Drizzle ☐ Humid ☐ Rain
Awkward Body Position ☐ Y ☐ N ☐ Inadequate Lighting ☐ Y ☐ N ☐ Bending ☐ Y ☐ N ☐ Ice ☐ Snow ☐ Dust ☐ Fog
Slip/Trip Potential ☒ Y ☐ N ☐ Fall Protection/ Anchor Points ☐ Y ☐ N ☐ Twisting Motion ☐ Y ☐ N ☐ Temp 55 Degrees
Lifting w/Other Employees ☐ Y ☐ N ☐ Pinch Points ☐ Y ☐ N ☐ Walking ☐ Y ☐ N ☐ Wind 5 mph
Proper Rigging Practices ☐ Y ☐ N ☐ Trenching/Excavation ☐ Y ☐ N ☐ Swinging ☐ Y ☐ N ☐ Chains Required
Access/Exit
Scaffold (properly inspected) ☐ Y ☐ N ☐ Hand and Finger Hazards ☐ Y ☐ N ☐ Straining ☐ Y ☐ N ☐ Steep Grades
Ladder ☐ Y ☐ N ☐ Electrical Hazards ☐ Y ☐ N ☐ Stretching ☐ Y ☐ N ☐ Mud _____ Condition
Hoisting of Tools/Materials ☐ Y ☐ N ☐ Welding/Flame Cutting ☐ Y ☐ N ☐ Reaching ☐ Y ☐ N ☐ If YES to any HAZARDS - Identify:
Secure Footing ☒ Y ☐ N ☐ Mechanical Equipment ☐ Y ☐ N ☐ Over Extending ☐ Y ☐ N ☐ Jumping ☐ Y ☐ N ☐ Crawling ☐ Y ☐ N ☐ Pollution (Personal Exposure) ☒ Y ☐ N

| SEQUENCE OF BASIC JOB STEPS | POTENTIAL AT-RISK BEHAVIORS OR OTHER HAZARDS | POTENTIAL HAND AND/OR FINGER HAZARDS | ACTION TAKEN TO ELIMINATE OR REDUCE POTENTIAL HAZARDS |
|---------------------------------|--|--------------------------------------|---|
| 1. <u>Check out of truck</u> | <u>STP</u> | <u>1. Injury</u> | <u>1. Example three</u> |
| 2. <u>Lighten lifting order</u> | <u>Pinch points</u> | <u>2. Injury</u> | <u>2. Put lighter rule</u> |
| 3. <u>Open valve</u> | <u>Pinch point</u> | <u>3. Injury</u> | <u>3. Keep fingers out of pinch</u> |

Key Approval - Date: Kevin Goforth 10-28-09 Customer Approval - Date: Andy

| Asset | Service Code | Description | Qty | Rate | Total |
|---------|--------------|--|-------|-------|--------|
| | | <input type="checkbox"/> Transport <input type="checkbox"/> Trans/Vac <input type="checkbox"/> Vacuum | | | |
| | | Minimum <input type="checkbox"/> 130 BBL <input type="checkbox"/> 60-80 BBL <input type="checkbox"/> 50 BBL | | | |
| 0106319 | 300143 | <input checked="" type="checkbox"/> Hour <input type="checkbox"/> Barrel <input type="checkbox"/> Load <input type="checkbox"/> 130 BBL <input type="checkbox"/> 60-80 BBL <input type="checkbox"/> 50 BBL | 3 1/2 | 74.00 | 259.00 |
| | | Pump/Kill Truck Minimum <input type="checkbox"/> 130 BBL <input type="checkbox"/> 60-80 BBL <input type="checkbox"/> 50 BBL | | | |
| | | Pump/Kill Truck Hourly <input type="checkbox"/> 130 BBL <input type="checkbox"/> 60-80 BBL <input type="checkbox"/> 50 BBL | | | |
| | | Hot Oil Unit Minimum <input type="checkbox"/> 130 BBL <input type="checkbox"/> 75 BBL | | | |
| | | Hot Oil Unit Hourly <input type="checkbox"/> 130 BBL <input type="checkbox"/> 75 BBL | | | |
| | | Hot Oil by the BBL | | | |
| | | Propane | | | |
| | | Winch Truck Minimum <input type="checkbox"/> Light Duty <input type="checkbox"/> Heavy Duty | | | |
| | | Winch Truck Hourly <input type="checkbox"/> Light Duty <input type="checkbox"/> Heavy Duty | | | |
| | | Haul, Set & Deliver Equipment | | | |
| | | <input type="checkbox"/> Swamper <input type="checkbox"/> Special Fluid Helper | | | |
| | | Supervisor <input type="checkbox"/> Truck <input type="checkbox"/> Acid <input type="checkbox"/> Special Fluid | | | |
| | | Fresh Water Key Owned | | | |
| | | Fresh Water Non Key | | | |
| | | Brine Water Key Owned | | | |
| | | Brine Water Non Key | | | |
| | | Disposal Key Owned <input type="checkbox"/> Solid <input type="checkbox"/> B/S | | | |
| | | Disposal Non Key <input type="checkbox"/> Solid <input type="checkbox"/> B/S | | | |
| | | Disposal Key Owned <input type="checkbox"/> Produced <input type="checkbox"/> Flowback | | | |
| | | Disposal Non Key <input type="checkbox"/> Produced <input type="checkbox"/> Flowback | | | |
| | | Third Party | | | |
| | | KCL (Potassium Chloride) Powdered | | | |
| | | KCL Substitute | | | |
| | | KCL <input type="checkbox"/> 2% <input type="checkbox"/> 3% <input type="checkbox"/> 4% <input type="checkbox"/> Other | | | |
| | | Chemicals - Specify: | | | |
| | | FUEL <input type="checkbox"/> Fuel Surcharge <input type="checkbox"/> Fuel Charge | | | |

Sales tax calculated on invoice Sub Total 259.00

PAYROLL:

| Class | Employee No. | Employee Name / Signature | Start | End | Work | Travel | Down | Other | Total Hours |
|---------|--------------|---------------------------|----------|---------|------|--------|------|-------|-------------|
| DRIVER | 33205 | Roger Bander | 11:00 AM | 1:30 PM | 3.5 | - | - | - | 3 1/2 |
| SWAMPER | | | | | | | | | |
| TRAINEE | | | | | | | | | |

No Signature Required