

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-141  
Revised March 17, 1999  
Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

30-015-05442

### Release Notification and Corrective Action

nmcs 0315431011

OPERATOR

☒ Initial Report

☐ Final Report

Name of Company <i>Merit Energy</i>	Contact <i>Brandon Ripley</i>
Address	Telephone No. <i>505-420-5502</i>
Facility Name <i>Turner B Premier Battery</i>	Facility Type <i>Battery</i>
Surface Owner	Mineral Owner
Lease No.	

### LOCATION OF RELEASE

Unit Letter <i>E</i>	Section <i>29</i>	Township <i>17</i>	Range <i>36</i>	Feet from the	North/South Line	Feet from the	East/West Line	County <i>Sandoz</i>
-------------------------	----------------------	-----------------------	--------------------	---------------	------------------	---------------	----------------	-------------------------

### NATURE OF RELEASE

Type of Release <i>oil &amp; water</i>	Volume of Release <i>275 bbl</i>	Volume Recovered <i>265 bbl</i>
Source of Release <i>oil tanks</i>	Date and Hour of Occurrence <i>5-14 10:00 AM</i>	Date and Hour of Discovery <i>5-14 10:00 AM</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>Mike Stubbfield</i>	
By Whom? <i>Brandon Ripley</i>	Date and Hour <i>5-14 10:15 AM</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

*lost pressure on heaters & water ran in to oil tanks, causing to run over*

Describe Area Affected and Cleanup Action Taken.\*

*all oil & water was contained in DYKE, picked up with vacuum truck. waiting for soil samples.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>BR</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <i>Brandon Ripley</i>	Approved by District Supervisor:	
Title: <i>Lease Operator</i>	Approval Date:	Expiration Date:
Date: <i>5-14</i>	Phone: <i>420-5502</i>	Conditions of Approval:
		Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

\* Enviro- Ltr sent to Operator 6/3/2003.

**ARDINAL  
LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
MERIT ENERGY  
ATTN: CHRIS FLORES  
P.O. BOX 69  
LOCO HILLS, NM 88255  
FAX TO: (505) 677-2306

Receiving Date: 08/04/03  
Reporting Date: 08/05/03  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: TURNER B SOUTH

Sampling Date: 08/04/03  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC/AH

*Blend Stockpile  
Samples.*

LAB NUMBER SAMPLE ID		GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		08/04/03	08/04/03	08/05/03
H7880-1	TURNER B SOUTH #1	14.3	1300	1260
H7880-2	TURNER B SOUTH #2	76.4	2071	1072
H7880-3	TURNER B SOUTH #3	84.4	1580	1700
H7880-4	TURNER B SOUTH #4	71.2	1330	1550
H7880-5	TURNER B SOUTH #5	106	1280	1680
Quality Control		772	787	1030
True Value QC		800	800	1000
% Recovery		96.5	98.4	103
Relative Percent Difference		2.4	1.0	3.0

METHODS: TPH GRO &amp; DRO: EPA SW-846 8015 M; Cl\*: Std. Methods 4500-Cl\*B

\*Analyses performed on 1:4 w:v aqueous extracts.

*Bryant P. Piche*  
Chemist

*8/5/03*  
Date

H7880A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

**CARDINAL  
LABORATORIES**

PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

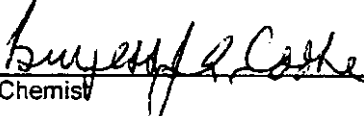
ANALYTICAL RESULTS FOR  
MERIT ENERGY  
ATTN: CHRIS FLORES  
P.O. BOX 69  
LOCO HILLS, NM 88255  
FAX TO: (505) 677-2306

Receiving Date: 08/04/03  
Reporting Date: 08/05/03  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: TURNER B SOUTH

Sampling Date: 08/04/03  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		08/04/03	08/04/03	08/04/03	08/04/03
H7880-1	TURNER B SOUTH #1	<0.005	0.045	<0.005	0.721
H7880-2	TURNER B SOUTH #2	<0.005	0.064	<0.005	1.11
H7880-3	TURNER B SOUTH #3	<0.005	0.048	0.009	0.931
H7880-4	TURNER B SOUTH #4	<0.005	0.084	0.011	1.33
H7880-5	TURNER B SOUTH #5	0.005	0.279	0.084	2.54
Quality Control		0.093	0.102	0.091	0.263
True Value QC		0.100	0.100	0.100	0.300
% Recovery		93.3	102	90.7	87.6
Relative Percent Difference		0.4	5.1	3.2	2.5

METHOD: EPA SW-846 8260

  
Chemist

8/5/03  
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. **H7880-5** Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

TRANSACTION REPORT

P. 01

AUG-19-2003 TUE 07:44 AM

FOR: OCD DISTRICT II

15057489720

RECEIVE

DATE	START	SENDER	RX TIME	PAGES	TYPE	NOTE	M#	DP
AUG-19	07:43 AM	505 667 2306	36"	1	RECEIVE	COM. E-7		

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**CARDINAL LABORATORIES, INC.**

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page      of     

ANALYSIS REQUEST									
<div style="display: flex; justify-content: space-between;"> <div> <p><b>Company Name:</b> <i>Merit Energy</i></p> <p><b>Project Manager:</b> <i>Chris Flores</i></p> <p><b>Address:</b> <i>P.O. Box 69</i></p> <p><b>City:</b> <i>MALAMAR</i> <b>State:</b> <i>NM</i> <b>Zip:</b> <i>88255</i></p> <p><b>Phone #:</b> <i>505-420-5516</i> <b>Fax #:</b> <i></i></p> <p><b>Project #:</b> <i></i> <b>Project Owner:</b> <i></i></p> <p><b>Project Name:</b> <i></i></p> <p><b>Project Location:</b> <i>Turner B South</i></p> <p><b>Sampler Name:</b> <i></i></p> </div> <div> <p><b>P.O. #:</b> <i></i></p> <p><b>Company:</b> <i></i></p> <p><b>Attn:</b> <i></i></p> <p><b>Address:</b> <i></i></p> <p><b>City:</b> <i></i></p> <p><b>State:</b> <i></i> <b>Zip:</b> <i></i></p> <p><b>Phone #:</b> <i></i></p> <p><b>Fax #:</b> <i></i></p> </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> <p><b>Matrix</b></p> <p>GROUNDWATER <input checked="" type="checkbox"/> SLUDGE <input checked="" type="checkbox"/> SOIL <input checked="" type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> CRUDE OIL <input checked="" type="checkbox"/> ACID/BASE <input checked="" type="checkbox"/> ICE/COOL <input checked="" type="checkbox"/> OTHER: <i></i></p> </div> <div> <p><b>Preserv</b></p> <p>OTHER: <i></i></p> </div> <div> <p><b>Sampling</b></p> <p>DATE: <i>8/14/03</i> TIME: <i></i></p> </div> </div>									
<p><b>Lab I.D.</b></p> <p><i>H7880-1 Turner B South #1</i></p> <p><i>-2 #2</i></p> <p><i>-3 #3</i></p> <p><i>-4 #4</i></p> <p><i>-5 #5</i></p>									
<p><b>Sample I.D.</b></p> <p><i>H7880-1 Turner B South #1</i></p> <p><i>-2 #2</i></p> <p><i>-3 #3</i></p> <p><i>-4 #4</i></p> <p><i>-5 #5</i></p>									
<p><b>FOR LAB USE ONLY</b></p> <p><b>Sample I.D.</b></p> <p><i>H7880-1 Turner B South #1</i></p> <p><i>-2 #2</i></p> <p><i>-3 #3</i></p> <p><i>-4 #4</i></p> <p><i>-5 #5</i></p>									
<p><b>Relinquished By:</b> <i>[Signature]</i> <b>Date:</b> <i>8/14/03</i> <b>Time:</b> <i>3:00 PM</i></p> <p><b>Delivered By: (Circle One)</b> <i>UPS</i></p> <p><b>Sampler - UPS - Bus - Other:</b> <i></i></p>									
<p><b>Received By:</b> <i>[Signature]</i> <b>Date:</b> <i>8/14/03</i> <b>Time:</b> <i>3:00 PM</i></p> <p><b>Sample Condition:</b> <i>Good</i> <input checked="" type="checkbox"/> <b>Intact:</b> <input checked="" type="checkbox"/> <b>Yes:</b> <input checked="" type="checkbox"/> <b>No:</b> <input type="checkbox"/></p> <p><b>Checked By:</b> <i>[Signature]</i> <b>(Initials):</b> <i></i></p>									
<p><b>Remarks:</b></p> <p><i>XXXXXX 5/25/03 SH.C</i></p>									

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**  
Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

1/22/2004

Merit Energy  
Att: Kevin Bracey  
P.O. Box 69  
Loco Hills, N.M.

Re: Ut. E 29-17s-31e  
Turner B Premier Battery.

Dear Mr. Kevin Bracey,

The Artesia Oil Conservation Division is in receipt of the initial C-141 form (copy included) dated 5/14/2003 from Merit Energy.

Please submit a work plan to the Artesia O.C.D. for correction of this release. Please use the "Guidelines For Remediation of leaks, spills, and releases" as your guide.

A copy of the Guidelines for Remediation of Leaks, Spills, and Releases, published 1993, can be found at the O.C.D. web address [WWW.EMNRD.STATE.NM.US/OCD](http://WWW.EMNRD.STATE.NM.US/OCD). The published document can be found on the O.C.D. web page under Publications/Environmental Handbook/Miscellaneous Guidelines/Spill Prevention Clean up.

The work plan presented to the O.C.D. must include general site characteristics, soil remediation action levels, soil remediation methods, and planned analytical, which will require testing for TPH, B-Tex.

A Final C-141 form is required for closure of the initial C-141 form filed. The Final C-141 Form filed must include a report of remediation actions taken with analytical results attached

**Please have the requested work plan in the Artesia office on or before 2/6/2004.**

The Artesia O.C.D. must be notified 24 hours prior to any remediation actions and/or subsequent soil samples taken for analytical.

**In the event that a satisfactory response is not received to this letter** further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe. Such a hearing may result in imposition of **CIVIL PENALTIES** for your violation of OCD rules.

If I can be of assistance in this matter please do not hesitate to contact me at 505-748-1283  
Or E-mail me at [MSTUBBLEFIELD@STATE.NM.US](mailto:MSTUBBLEFIELD@STATE.NM.US).

Sincerely,

*(copy)*  
Mike Stubblefield

Environ. Eng. Spec.

N.M.O.C.D.

Criss  
420-5506

ATT MIKE J.



# ARDINAL LABORATORIES

PHONE (816) 973-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
MERIT ENERGY  
ATTN: CHRIS FLOREZ  
P.O. BOX 68  
LOCO HILLS, NM 88255  
FAX TO: (505) 677-2306 &  
(505) 234-1739

Receiving Date: 06/24/03  
Reporting Date: 06/26/03  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: TURNER B BATTERY

Sampling Date: 06/24/03  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		06/25/03	06/25/03	06/25/03	06/25/03	06/25/03	06/25/03
H7758-1	TOP	801	12060	2.29	16.4	2.61	44.8
H7758-2	12"	80.7	1460	0.144	0.821	0.171	1.39
H7758-3	24"	<10.0	113	<0.005	<0.005	<0.005	0.035
H7758-4	TOP WEST SIDE	2780	18030	0.550	15.2	25.7	80.2
H7758-5	12" WEST	165	980	0.267	2.45	2.34	4.60
H7758-6	24" WEST	<10.0	112	0.013	0.101	0.151	0.339
H7758-7	36" WEST	<10.0	85.3	0.011	0.014	0.027	0.051
Quality Control		824	797	0.097	0.097	0.090	0.262
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		103	99.6	96.8	97.2	90.1	87.2
Relative Percent Difference		3.6	12.1	8.7	2.6	2.4	1.7

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

*Burgess J. A. Cooke, Ph. D.*  
Burgess J. A. Cooke, Ph. D.

6/26/03  
Date

H7758A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and CORRE's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruption, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated theories or otherwise.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Lori Wrotenberg**

Director

**Oil Conservation Division**

2/25/2004

Merit Energy Company  
12222 Merit Drive , ste. 1500  
Dallas, TX 75251

Re: Work plan approval letter  
Sec. 29-17s-31e Turner B South Battery

Dear Merit Energy Company,

O.C.D. has received a work plan from your agent Safety & Environmental Solutions for the Turner B South battery. The work plan as presented for the remediation of a 275 bbls produced fluids release with-in the diked area of the facility.

The Work plan as presented to O.C.D. is approved with the following stipulations added:

1. Please notify O.C.D. before remediation actions are to be taken or soil samples are taken for analytical therefore giving O.C.D. the opportunity to witness.
2. Highly saturated soils should be disposed of at O.C.D. approved soil waste facility
3. The RRAL of 5000 mg/kg is accepted as the correction action level for TPH.
4. The documentation of Chlorides through analytical showing a decline is required.
5. The work plan as presented to O.C.D. shall begin actions as approved by this letter no latter than 3/25/2004 for the Low-lying area to the west of the stock tanks. This area shall have correction completed by no later than 6/25/2004. All other sections of the tank battery as mentioned in the work plan shall have corrective actions begin as approved in this work plan no later than 6/25/2004 and shall have corrective actions completed by 9/25/2004.

If I can be of assistance in this matter please do not hesitate to contact me at 505-748-1283 or E-Mail me at [mstubblefield@state.nm.us](mailto:mstubblefield@state.nm.us).

Sincerely,

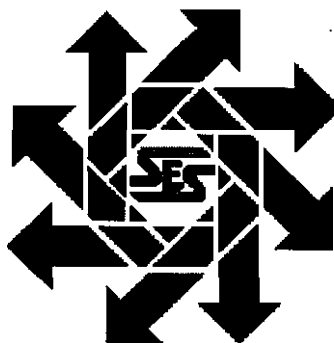
Mike Stubblefield  
Environ Eng. Spec.  
N.M.O.C.D.

Cc. Safety & Environmental Solutions, Inc.



**Merit Energy  
Turner B South Battery  
Work Plan  
Section 29, Township 17S, Range 31E  
Eddy County, New Mexico**

**February 13, 2004**



**Prepared for:**

**Merit Energy  
P.O. Box 69  
Local Hills, New Mexico 88255**

**By:**

***Safety & Environmental Solutions, Inc.  
703 E. Clinton Suite 102  
Hobbs, New Mexico 88240  
(505) 397-0510***

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IV. Vertical and Horizontal Extent of Contamination.....	1
V. Groundwater .....	1
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VII. Figures & Appendices.....	2

**I. Purpose**

The purpose of this work plan is to propose a plan for the cleanup of the area identified as the Turner B South Battery Site. The site is located in Section 29, Township 17S, Range 31E, Eddy County, New Mexico. (Vicinity Map)

**II. Background**

The subject site is a tank battery area, which is used for the storage of fluids produced from the wells associated with this lease. On May 14, 2003 the oil tank leaked produced fluids onto the ground inside the bermed area of the battery. Approximately 275 barrels of fluid was released and approximately 265 barrels was recovered.

**III. Contaminant and Size of Area**

The suspected contaminant is produced fluids with the tank battery at the site. The release went into the berm and overflowed to a low lying area to the west. (Site Plan)

**IV. Vertical and Horizontal Extent of Contamination**

The vertical and horizontal extent of the contamination will be determined during excavation.

**V. Groundwater**

There is no groundwater of record in the area according to information received from the New Mexico State Engineer.

**VI. Action Plan**

Based on visual observations, the cleanup level reached by the application of the **"Guidelines for Remediation of Leaks, Spills and Releases"** *New Mexico Oil Conservation Division* – August 13, 1993 (Guidelines) to this site is 5000 ppm TPH. Application of the NMOCD's ranking criteria for contaminated soils at this site is presented below.

Depth to Ground Water:	0 points
Distance to Well Head or Water Source:	0 points
Distance to Surface Water/Waterways:	0 points
Total Score:	0 points

SESI proposes that all fluids be removed from the berm area and the highly contaminated and or saturated soils be excavated and moved to the well location east of the site. The excavated soils will be blended with clean soils from off site to a TPH level no greater than 5,000 PPM. The excavation will be backfilled with the blended soils and returned to grade. Samples will be retrieved at the final excavation depth and from the blended soils. Field-testing for Total Petroleum Hydrocarbons (TPH) will be performed on soil samples (EPA Method 418.1) using a GAC Mega Total Petroleum Hydrocarbon analyzer. The final samples collected will be preserved on ice and delivered along with Chain of Custody to Cardinal Laboratories for testing. Laboratory samples will be

analyzed for Total Petroleum Hydrocarbons (EPA Method 418.1), BTEX (EPA Method SW-846-8260), and Chlorides (EPA Method 4500-Cl<sup>-</sup> B)

The area to the west will be divided into two (2) sections and the highly contaminated and or saturated soils will be excavated and moved to the well location west of the battery. The excavated soils will be blended with clean soils from off site to a TPH level no greater than 5,000 PPM. The excavation will be backfilled with the blended soils and returned to grade. Samples will be retrieved at the final excavation depth and from the blended soils. Field-testing for Total Petroleum Hydrocarbons (TPH) will be performed on soil samples (EPA Method 418.1) using a GAC Mega Total Petroleum Hydrocarbon analyzer. The final samples collected will be preserved on ice and delivered along with Chain of Custody to Cardinal Laboratories for testing. Laboratory samples will be analyzed for Total Petroleum Hydrocarbons (EPA Method 418.1), BTEX (EPA Method SW-846-8260), and Chlorides (EPA Method 4500-Cl<sup>-</sup> B).

This work plan is intended to be performed in three phases. The time frame for this project is expected to be one to one and ½ years. This time frame allows the cost of the project to be spread over a like period of time.

## **VII. Figures & Appendices**

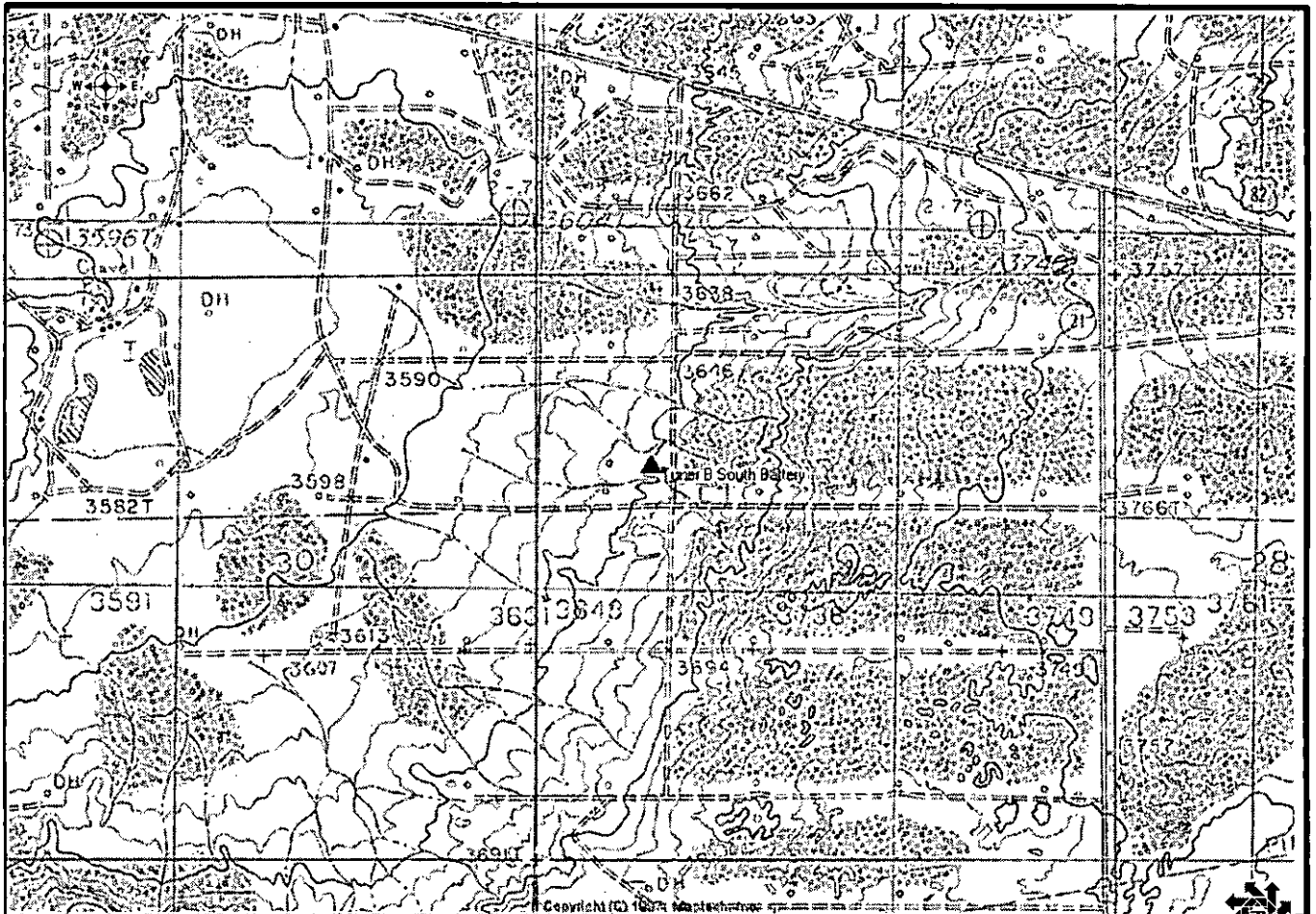
Figure 1. Vicinity Map

Figure 2. Site Plan

Appendix A C-141

Appendix B Site Photos

**Figure 1**  
**Vicinity Map**

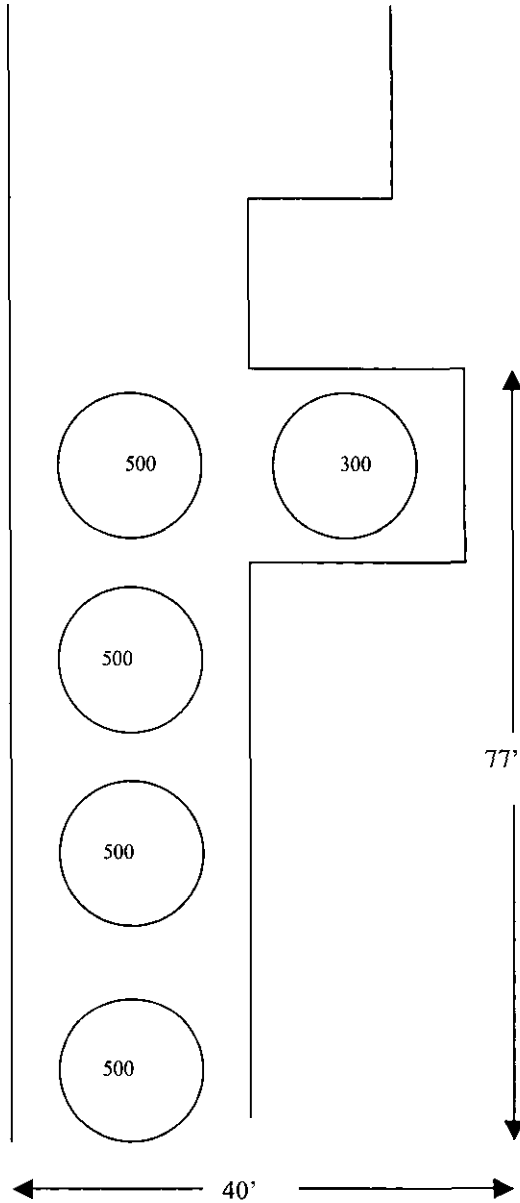
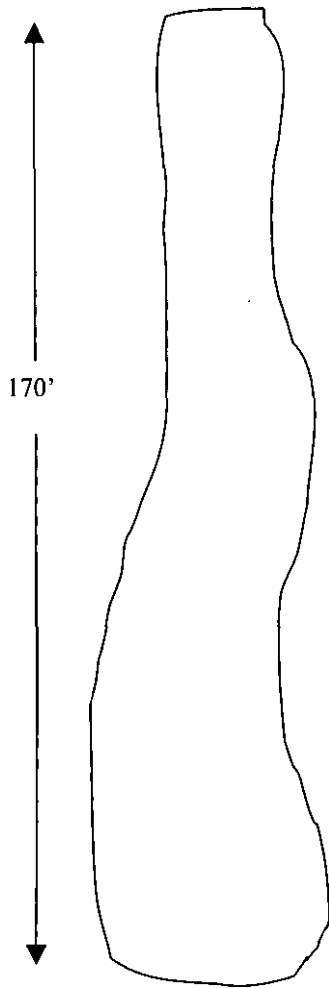
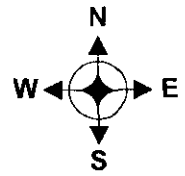


Merit Energy

Turner B South Battery  
S29, T17S, R31E  
Eddy County, New Mexico

Safety & Environmental Solutions, Inc.

**Figure 2**  
**Site Plan**



Not to Scale



Merit Energy

Turner B South  
Sec. 29, T17S, R31E  
Eddy County, New Mexico

**Safety & Environmental  
Solutions, Inc.**



# **Appendix A**

## **C-141**

## **Appendix B**

### **Site Photos**