

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

30-039-22923 OPERATOR

☒ Initial Report ☒ Final Report

Name of Company RESOURCE DEVELOPMENT TECHNOLOGY, LLC	Contact Robert A. Schwering, P.E. Operations Manager
Address: PO Box 1020, Morrison, CO 80465	Telephone No.: (303) 716-3200
Facility Name: Theodore Zink Fed. Com. #1	Facility Type: 400 Bbl. Tank in Tank Battery @ Oil Well

Surface Owner: United States of America: BLM	Mineral Owner: United States of America: MMS	Lease No.: USA NM23231
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LOCATION OF RELEASE

Unit Letter "D"	Section 15	Township T 23 N	Range R 6 W	Feet from the 460'	North/South Line FNL	Feet from the 1005'	East/West Line FWL	County Rio Arriba
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Oil Spill from Tank.	Volume of Release : 86 Bbl.	Volume Recovered: 4 Bbl.
Source of Release: Bullet-Hole in 400 Barrel Oil Tank 5' 6" above ground. The feet of head in the tank (approx. 11' 11") caused the leak stream to shoot past the dike containment onto the location.	Date and Hour of Occurrence: In the am on 5/2/2005 or in pm on 5/1/2005: someone shot a hole in the 400 Bbl. Tank.	Date and Hour of Discovery: 5/2/2005 @ 0700 Hrs. by Giant Oil Hauler who plugged the bullet hole with a stick. Notified our pumper who arrived at 0815 Hrs. & confirmed leak & SI Well.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Gave Notice at 0815 Hrs. am to Mr. Charlie Perrin @ NMOCD.	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NONE: NOT APPLICABLE.	

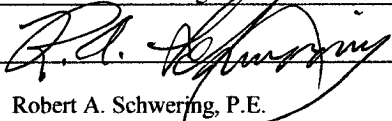

If a Watercourse was Impacted, Describe Fully.*

NO

Describe Cause of Problem and Remedial Action Taken.*: An Unknown Person shot a hole in the Theodore Zink Fed. Com. #1 Oil Tank. The hole was high enough up the tank (5' 6"), and the tank was full enough @ 11' 11"+: approx. 239 STBO, that the resulting stream arced out past the containment dike onto the location pad. A Giant Oil Hauler (Mr. Joe Bixler) spotted the leak, plugged the leak with a stick & then called RDT. RDT arrived at the well 75 min. later & SI the well. The tank gauge was @ 7' 8": 153 STBO. RDT called out:
*R&S Water Haulers Vacuum Truck & sucked up all the dirty free product on the surface (approx. 4 STBO) & put it in Fiberglass Tank on location.
*Giant to haul all of the oil they could get (Top Gauge @ 7' 8" to Bottom Gauge @ 1' 1" = 131 STBO). This left 22 STBO & BS&W in the Tank.
*Vaughn's Oilfield Services to excavate & clean-up contamination on-location. Vaughn's one-called additional excavations off-pad. Off-site work will commence on 5/5/2005 after pipeline locations are verified. DCA (Salmon Ruins) will determine no Archaeological Sites in way prior to clean-up.

Describe Area Affected and Cleanup Action Taken.*
ADDITIONAL SHEET ATTACHED

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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: 	OIL CONSERVATION DIVISION	
Printed Name: Robert A. Schwering, P.E.	Approved by District Supervisor: 	
Title: Operations Manager	Approval Date: 5/31/05	Expiration Date:
E-mail Address: ras.rdt@mindspring.com	Conditions of Approval: Remediate LF	Attached <input type="checkbox"/>
Date: 5/2/2005	Phone: (303) 716-3200	

- Attach Additional Sheets If Necessary

CTP 05/2236985

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Top Gauge on 5/1/2005: 11' 11" = 238.33 Bbl.
Est 12 Hour Production: +1.00 Bbl. (This is a Strpper Well averaging 2 BOPD)
 Total Oil Available to Leak: 239.33 Bbl.
Top Gauge on 5/2/2005: 7' 8" = -153.33 Bbl. (After Leak Plugged & well Shut-Down & Shut-In)
 Total Oil Spilled: 86 Bbl.
Total Oil Recovered: -4 Bbl. (4" in the 10' diameter Water Tank)
Net Oil Spilled Onto Dirt & Soaked-In: 82 Bbl. (This oil had soaked into the dirt on and off the site)

Sold Free Oil out of Tank on 5/2/2005:

Top Gauge on 5/2/2005: 7' 8" = 153.33 Bbl. (The well had high bottoms & we pulled off of clean-out line)
Bottom Gauge on 5/2/2005: 1' 1" = 21.67 Bbl. (The well had high bottoms & we pulled off of clean-out line)
 Oil Sold to Giant on 5/2/2005: 131 (Gauge Volume sold to Giant on Run Ticket)

Oil Remaining On-Location:

Bottom Gauge on 5/2/2005: 1' 1" = 21.67 Bbl. (BS&W & Oil Left in Tank Awaiting Clean-Out)
Oil in 40 Bbl. SW Tank on 5/2/2005: 4" = 4.67 Bbl. (Dirty Oil Recovered from Spill)
 Maximum Oil Left On-Location: 26.34 Bbl.

DESCRIPTION OF AFFECTED AREA: See Location Diagram & Attached Map:

From the outside edge of the Tank Battery Berm the oil ran approx. 130' across the location (15' Wide) to the Western Edge & pooled up behind a secondary pollution abatement berm between the road & location (approx. 5' to 10' wide & 100' long). Est.: 2,700 sq. ft.

The oil then ran over at the north end of this catchment & ran down along the Eastern Bar Ditch of County Road 403 to a low spot & then ran across the road to the western bar ditch (approx. 1.5' wide by 60' long). The puddle at the low spot in the bar-ditch/County Road was approx. 15' x 15'. Est.: 325 sq. ft.

The oil then pooled up again along approx. 50' of bar ditch by 5' wide until it overflowed the bar ditch along the west side of County Road 403 & ran along the drainage approx. 75' x 1' wide to where it was all soaked-in. Est.: 325 sq.ft.

Est. Surface Area of Spill at 3,350 sq. ft.

Est. Volume of Spill @ 82 Bbl. = 460 cu. Ft.

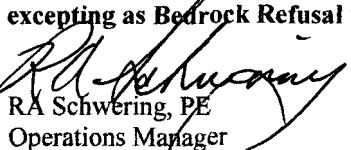
Est. Depth of Spill over Area = $460/3350 = 0.1373$ ft. = 1.65" of oil coverage.

Assuming a 20% soil porosity this should soak in 8.25 inches on the average.

Assuming a 9" excavation across the affected are = approx. 2500 Cu. Ft. of soil to excavate & farm on-location (a 50' x 50' x 1' Soil Farm).

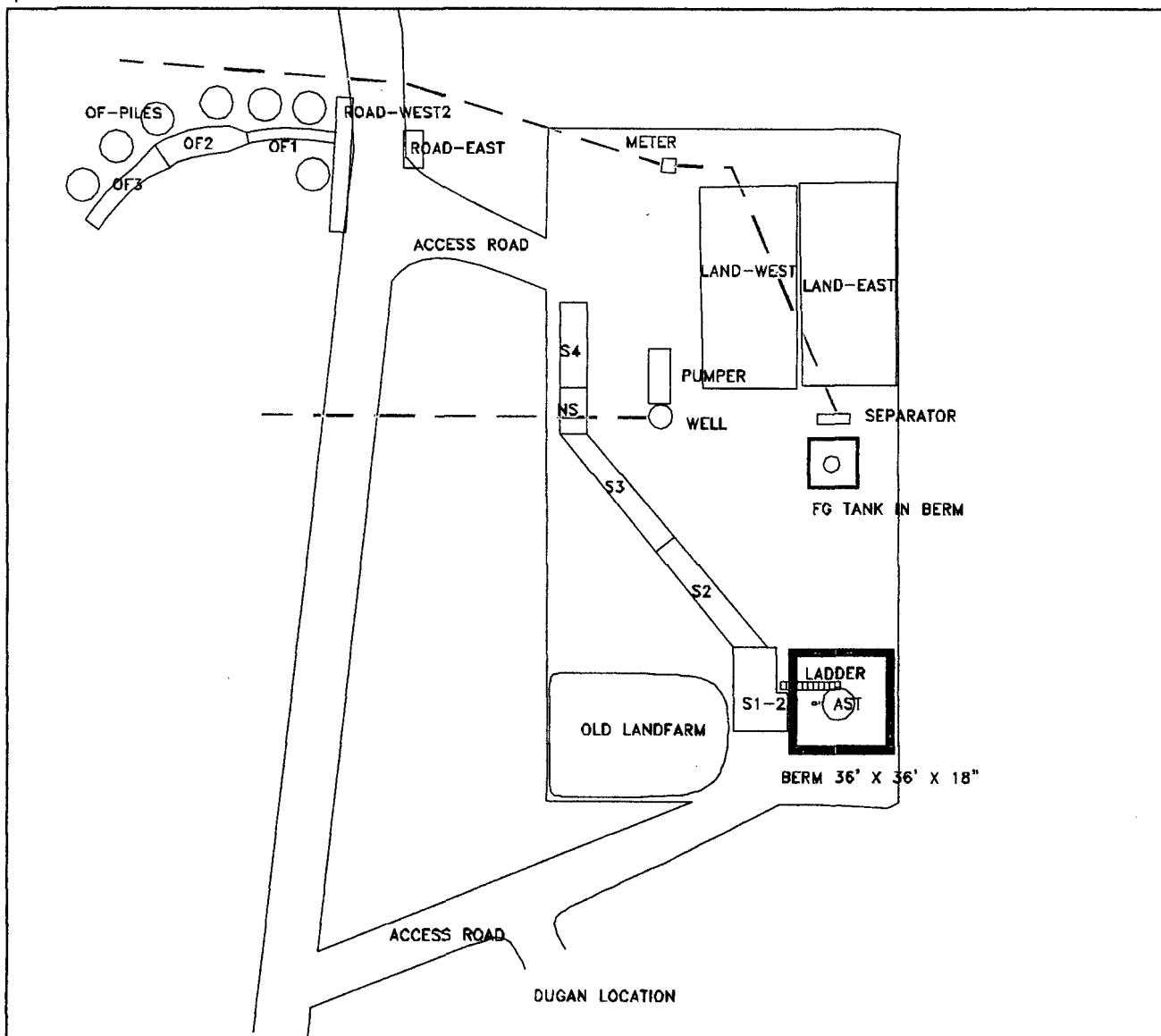
Plan of Remediation:

RDT does intend to excavate & remediate the contaminated soil. The contaminated soil will be land-farmed on the Theodore Zink #1 Location as shown in the attached diagram. RDT will meet the TPH @ 100 PPM standard in all excavations off of the location. The location was scored at the 1000 PPM TPH standard in our Pit Closure Project & this standard will be adhered to on the location itself excepting as Bedrock Refusal makes this impossible.


RA Schwering, PE

Operations Manager

Resource Development Technology, LLC



ALL SAMPLES 5-PART COMPOSITE OR MORE
BOTTOM AND SIDES COMPOSITE AS NECESSARY

LIST OF SAMPLING AREAS

S1-2 = 31' (N-S) X 16' TO 20' X 4' DEEP

S2 = 48' X 10' X 2' DEEP

S3 = 48' X 10' X 2' DEEP

NS = NO SAMPLE BECAUSE OF PIPELINE

S4 = 28' X 10' X 2' DEEP

ROAD-EAST = 14' (N-S) X 7' X 7' DEEP

ROAD-WEST2 = 50' X 6' X 4' DEEP

OF1 = 33' X 4' X 4' DEEP

OF2 = 34' X 10' X 4' DEEP

OF3 = 36' X 6' X 4' DEEP

LAND-EAST = 75' (N-S) X 50' X 4' HIGH

LAND-WEST = 75' (N-S) X 50' X 6' HIGH

OF-PILES = OFFSITE PILES PRIOR TO MOVING TO LANDFARM

Excavated 9,350 cu. ft. of Soil = 346.3 cu. yd.

KEY
 — PIPING, ABOVEGROUND
 - - PIPING, BURIED
 & PIPE AND VALVE
 BERM



PREPARED BY



EME SOLUTIONS, INC.
 15248 W. ELLSWORTH DR.
 GOLDEN, CO 80401
 303-279-1707

PREPARED FOR

Resource Development Technology
 P.O. Box 1020
 Morrison, CO 80485

TITLE

THEO ZINK #1
OIL SPILL MAY 2005
SITE DRAWING

Project: RDT

Scale: 1" = 60'

Date: 5-10-05

File: TheoZink1

Revision



STAEOTLER® No. 937 811E
 Engineer's Consulting
 No More Than 19' Wide
 Approx 75' Long

Pooled in Bar Ditch

Corrected



Theodore Zink Fed. Com. #1

New Land Farm
Est @ 2500 cu. ft.

Pooled in Road & Bar Ditch

Pooled Along West Edge of Location

Luthin
11410-1173-64
Pumping Unit
w/
Arrow C-66
Gas EngineBuried 2"
Flow LineOil Stained
DirtBuried 2"
Oil Dump LineOLD
LAND
FARMDimension Health
3 of Separator
250 w/ 260 M16TU40 Bbl. 10'x3' Fiberglass
Produced Water Tank
15'x15'x18" EnclosureExcavated & Remediated
Earlier Production P.t400 Bbl. Oil Tank
36'x36'x18" Barn
Existing

50'

Dugan
Location

Someone shot our tank 5'6" above
 the bottom with a large caliber rifle
 on 5/2/2005 in a.m. or 5/1/2005 p.m.

The Tank contained approx. 238 Bbl. of
 Oil when Gauged in p.m. on 5/1/2005.

A passing oil hauler saw leak & road
 & plugged the hole in the tank &
 Notified ROT @ 7am on 5/2/2005.

The well was SI @ 0800 hrs. 5/2/2005

Top Gauge = 11' 11"

Gauge @ 8800 = 7' 8"

Spill = 4' 3" Recovery = 40 Bbl.