

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

Form C-141

Revised June 10, 2003

RECEIVED

AUG 17 2009

HOBBSOCD

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit 2 Copies to appropriate

District Office in accordance

with Rule 116 on back

side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Apache Corporation		Contact	Natalie Gladden
Address	P.O. Box 1849	Eunice, NM 88231	Telephone No.	575-390-4186
Facility Name	NEDU 141		Facility Type	Production Well

Surface Owner	State of NM	Mineral Owner	State of NM	API No.	30-025-35469
---------------	-------------	---------------	-------------	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from North Line	Feet from West Line	Longitude-W	Latitude-N	County
D	2	21S	37E	330	1200	103.1385	32.5213	Lea

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil w/ associated Produced Water	Approx 9 bbl	0 bbl
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Stuffing Box	02/10/08	02/10/08
Was Immediate Notice Given?	If YES, To Whom?	
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	NA	
If a Watercourse was Impacted, Describe Fully*		

Describe Cause of Problem and Remedial Action Taken. *

Back-pressure valve plugged up causing stuffing box to leak. Repairs facilitated to stop leakage. Preliminary excavation and disposal of grossly contaminated soil.

Describe Area Affected and Cleanup Action Taken. *

Release affected flowpath (~1300-ft²) was excavated to achieve sidewall and bottom concentrations less than the regulatory limits. Contaminated soil was blended with clean soil obtained from lateral extension of the excavation. Blended concentrations were less than regulatory limits. Remediation and restoration was completed by ELKE Environmental, Hobbs, NM.

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:	ENV ENGINEER:	
	Approved by District Supervisor:	
Title:	Approval Date:	Expiration Date:
Environmental Tech - Permian Basin	09/28/09	-
E-Mail Address:	Conditions of Approval:	<input type="checkbox"/> Attached
Natalie.Gladden@usa.apachecorp.com	IRP# 1784	
Date:	Phone:	
8/6/2009	575-390-4186	



RECEIVED

AUG 17 2009
HOBBSOCD

NEDU #141

C141 CLOSURE REPORT

API 30-025-35469

UL-D (NW¼ OF THE NW¼) OF SECTION 2 T21S R37E

LATITUDE: N 32° 31.277' LONGITUDE: W 103° 8.309'

~5.84 MILES NNE (BEARING 10.9°) OF EUNICE

LEA COUNTY, NEW MEXICO

NMOCD 1RP #1784

August 6, 2009

PREPARED FOR APACHE CORPORATION BY:

JOHN GOOD, PROJECT MANAGER/CONSULTANT

(575) 631-3277; JCGOOD4614@AOL.COM

Table of Contents

1.0 Project Summary.....	3
2.0 Site Description	4
2.1 Geological Description	4
2.2 Ecological Description	4
2.3 Area Ground Water	4
2.4 Area Water Wells	4
2.5 Area Surface Water Features	4
3.0 Contaminant and Size of Area	4
4.0 NMOCD Site Ranking	4
5.0 Remediation Process	5

ATTACHMENTS 6-21

Laboratory Analytical Results Summary Table	6
Plate 1: Site Location Map	7
Plate 2: Site Topography Map	8
Plate 3: Site Aerial Photograph	9
Plate 4: Ground Water Elevation Contour Map	10
Plate 5: Site Detail Drawing	11
Plate 6: Soil Sample Location Drawing	12
Cardinal Laboratory Analytical Reports	13-16
Photographs	17-18
Initial NMOCD C-141 Form (02/14/08 IRP-1784)	19
Site Metrics Information	20
Final NMOCD C-141 Form	21

1.0 Project Summary

Release Site Name: NEDU #141
Operating Company: Apache Corporation
Company Representative: Natalie Gladden, Environmental Tech Phone: 575-390-4186
Address: PO Box 1849, Eunice, NM 88231 Email: Natalie.Gladden@usa.apachecorp.com
Remediation Company: ELKE Environmental - Hobbs Phone: 575-738-0138

SITE SPECIFIC DATA:

Legal Description: Lea County, New Mexico UL-J Section 2 T21S R37E
General Location: 5.84 miles NNE (10.9°) of Eunice, NM.
Latitude: N32° 31.277' Longitude: W103° 8.309' Elevation: 3,506-ft amsl
Land Ownership: State of NM
Ground Water Elevation: 70-ft bgs (Contour map)
Water Wells within 1000-ft: none Surface Water within 1000-ft: none

RELEASE SPECIFIC DATA:

Date and Time of Release(s): 02/10/08 –AM
Material Released: Crude oil and associated produced water
Volume Released: 9-bbl Volume Recovered: 0-bbl
Cause of Release: clogged valve resulting in stuffing box overflow
Release Affected Area: ~1300-ft²
Depth of Contamination: 10-ft bgs
NMOCD Site Ranking: 10 (ground water 50-ft below lowest contamination)

Remediation Action Levels: TPH: 1000-ppm; Benzene: 10-ppm; BTEX: 50-ppm; Cl – 250-ppm

REMEDIATION SUMMARY:

Subsequent to the initial excavation/disposal of ~100-yd³ of saturated soil from the southwest extending flow path, the bottom and sides of the excavation were field analyzed for total chlorides. Remaining chloride concentrations were low enough to enable blending to mitigate the remaining chloride contaminated soil. Contaminated soil was excavated and stockpiled on the pad surface. Clean blending soil was obtained by extending the excavation laterally beyond the clean limits. The excavation was backfilled with the blended soil and finished with 100-yd³ of clean caliche obtained from another Apache location that was being reduced in size.

2.0 Detailed Site Description

2.1 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an inter-grade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick inter-bed of caliche and generally overlain by sandy soil." The release site is located in the Eunice Plain physiographic subdivision, described by Nicholson & Clebsch as "covered almost entirely by reddish-brown dune sand. In some places the underlying surface consists of alluvial sediments – most commonly calcareous silt in buried valleys or Quaternary lake basins. It has a general southeast slope toward Monument Draw." The sand cover is generally 2 to 5-ft thick, but can be 20 – 30-ft thick in localized drift areas."

2.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Quercus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses, flowering annuals and flowering perennials. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, Amphibians, and Birds are numerous and typical of the area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 Area Ground Water

Extrapolation of the Chevron-Texaco water contour map (*Plate 4 of Attachments*) indicates that water in this area is 70' bgs.

2.4 Area Water Wells

There are no recorded or observed water wells within 1000 horizontal feet of the site.

2.5 Area Surface Water Features

No permanent surface water bodies exist within 1000 horizontal feet of the site.

3.0 Contaminant and Size of Area

The primary Contaminants of Concern (CoCs) were crude oil and total chlorides. The approximate areal extent of the release was ~1300-ft².

4.0 NMOCD Site Ranking

Contaminant delineation and site evaluation work done at this site indicate that the chemical parameters of the soil and the physical parameters of the ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- *Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)*
- *Unlined Surface Impoundment Closure Guidelines (February 1993)*

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH^{8015m}, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEX⁸²⁶⁰), was determined based on the NMOCD Ranking Criteria as follows:

- *Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.*
- *Wellhead Protection Area, i.e., distance from fresh water supply wells.*
- *Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.*

Based on the proximity of the site to area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 10 points with the soil remedial goals highlighted in the Site Ranking Table.

SITE RANKING TABLE

1. GROUND WATER		2. WELLHEAD PROTECTION	3. DISTANCE TO SURFACE WATER
DEPTH TO GW <50 FEET: 20 POINTS		IF <1000' FROM WATER SOURCE, OR; <200' FROM PRIVATE DOMESTIC WATER SOURCE: 20 POINTS	<200 HORIZONTAL FEET: 20 POINTS
DEPTH TO GW 50 TO 99 FEET: 10 POINTS			200-1000 HORIZONTAL FEET: 10 POINTS
DEPTH TO GW >100 FEET: 0 POINTS		IF >1000' FROM WATER SOURCE, OR; >200' FROM PRIVATE DOMESTIC WATER SOURCE: 0 POINTS	>1000 HORIZONTAL FEET: 0 POINTS
GROUND WATER SCORE = 10		WELLHEAD PROTECTION SCORE= 0	SURFACE WATER SCORE= 0
SITE RANK (1+2+3) = 10 + 0 + 0 = 20 POINTS			
TOTAL SITE RANKING SCORE AND ACCEPTABLE REMEDIAL GOAL CONCENTRATIONS			
PARAMETER	20+	10	0
BENZENE	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	100 PPM	1000 PPM	5000 PPM

5.0 Remediation Process

Subsequent to the initial excavation/disposal of ~100-yd³ of saturated soil from the southwest extending flow path, the bottom and sides of the excavation were field analyzed for total chlorides. Remaining chloride concentrations were low enough to enable blending to mitigate the remaining chloride contaminated soil. Contaminated soil was excavated and stockpiled on the pad surface. Clean blending soil was obtained by extending the excavation laterally beyond the clean limits. The excavation was backfilled with the blended soil and finished with 100-yd³ of clean caliche obtained from another Apache location that was being reduced in size.

Based on the contents and data contained herein, Apache Corporation requests that NMOCD require "no further action" as regards the soil contamination resulting from the 02/10/08 release at the NEDU #141 well location.

ATTACHMENTS

Laboratory Analytical Results Summary Table	6
Plate 1: Site Location Map	7
Plate 2: Site Topography Map	8
Plate 3: Site Aerial Photograph	9
Plate 4: Ground Water Elevation Contour Map	10
Plate 5: Site Detail Drawing	11
Plate 6: Soil Sample Location Drawing	12
Cardinal Laboratory Analytical Reports	13-16
Photographs	17-18
Initial NMOCD C-141 Form (09/12/08 IRP-1950)	19
Site Metrics Information	20
Final NMOCD C-141 Form	21

NEDU #141: LABORATORY ANALYTICAL RESULTS SUMMARY TABLE							
Sample Number	Sample Depth	Sample Location	Chlorides mg/Kg	Sample Number	Sample Depth	Sample Location	Chlorides mg/Kg
SP-1	10-ft	NEast Bottom	64	SP-9	7-ft	NWest Sidewall	48
SP-2	10-ft	Center Bottom	<16	SP-10	7-ft	NWest Sidewall	48
SP-3	10-ft	SWest Bottom	64	SP-11	7-ft	NWest Sidewall	80
SP-4	7-ft	SEast Sidewall	80	SP-12	NA	Blend	144
SP-5	7-ft	SEast Sidewall	112	SP-13	NA	Blend	128
SP-6	7-ft	SEast Sidewall	112	SP-14	NA	Blend	64
SP-7	7-ft	NEest Sidewall	80	SP-15	NA	Blend	48
SP-8	7-ft	SWest Sidewall	112				

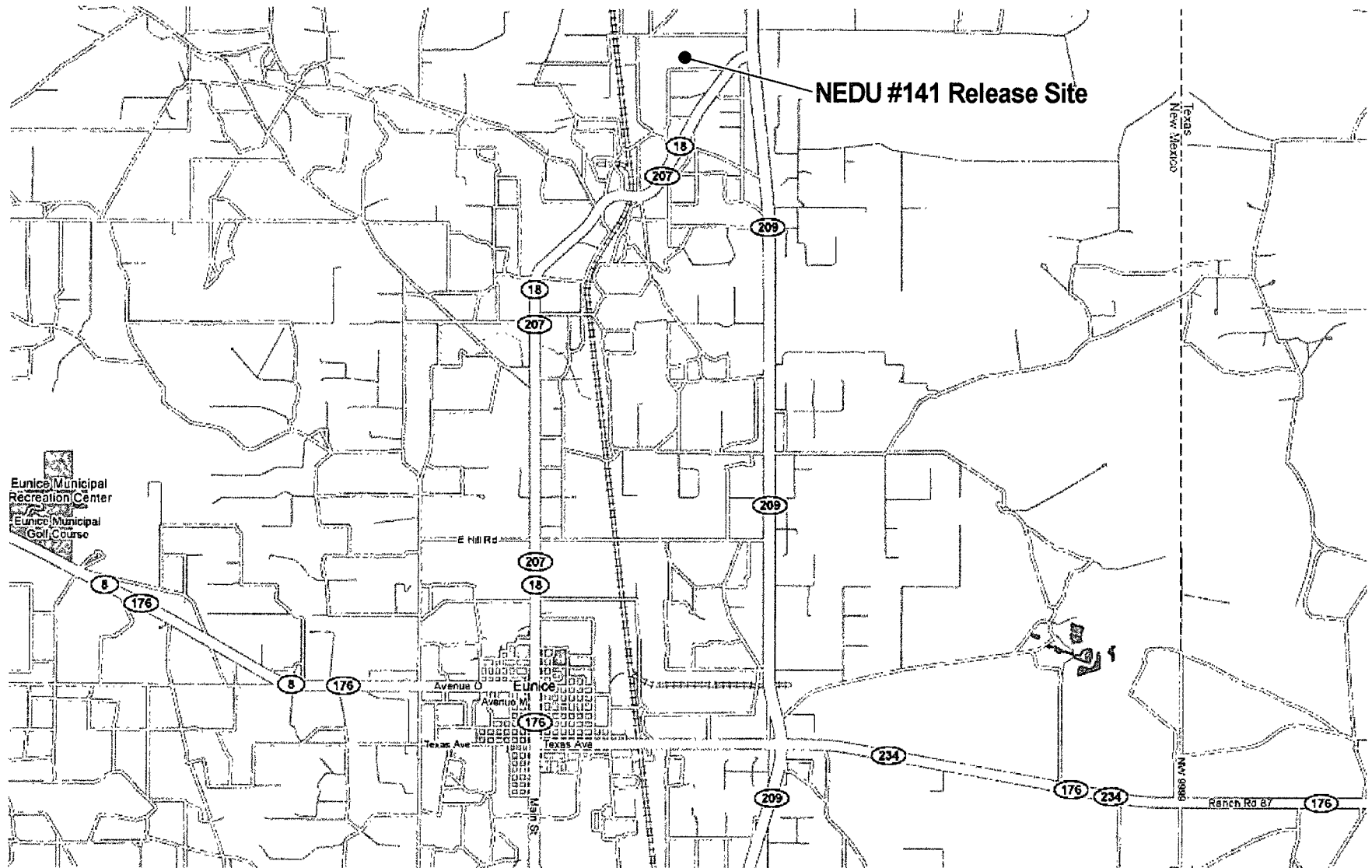


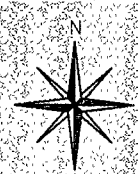
Plate 1
Release Site Location
Apache Corporation
NEDU #141

Lea County, New Mexico
UL-D SECTION 2 T21S R37E
N 32° 31.277', W 103° 8.309'
Elevation: ~3506-ft amsl

Drawing by: John Good
August - 2009

Rev:
1

SCALE: 0 1 2
Mile



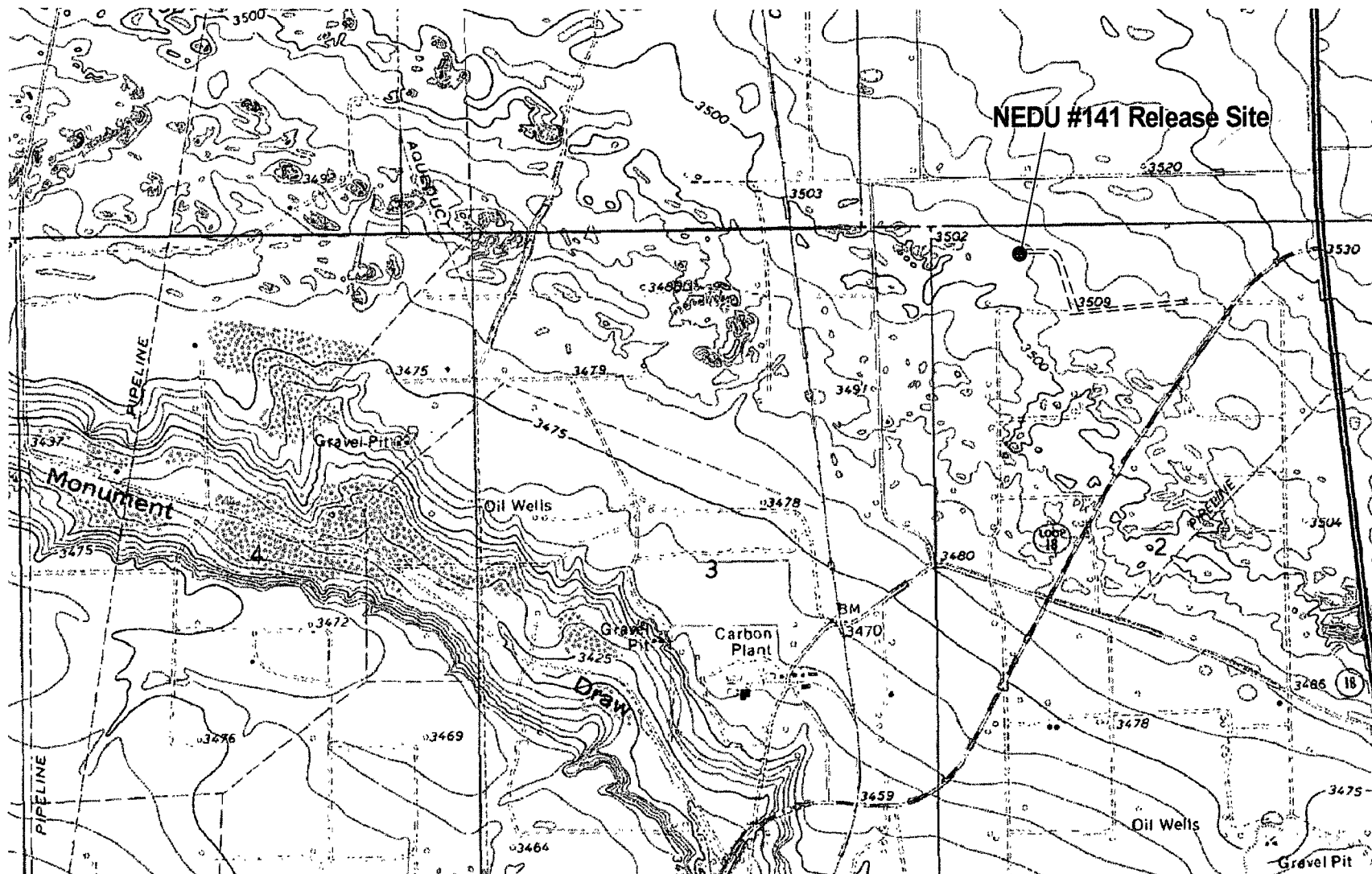
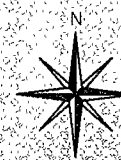


Plate 2
Release Site Topography (USGS)
Apache Corporation
NEDU #141

Lea County, New Mexico
UL-D SECTION 2 T21S R37E
N 32° 31.277', W 103° 8' 30"
Elevation: ~3506-ft amsl

Drawing by: John Good
August - 2009

SCALE:
0 3000
Feet



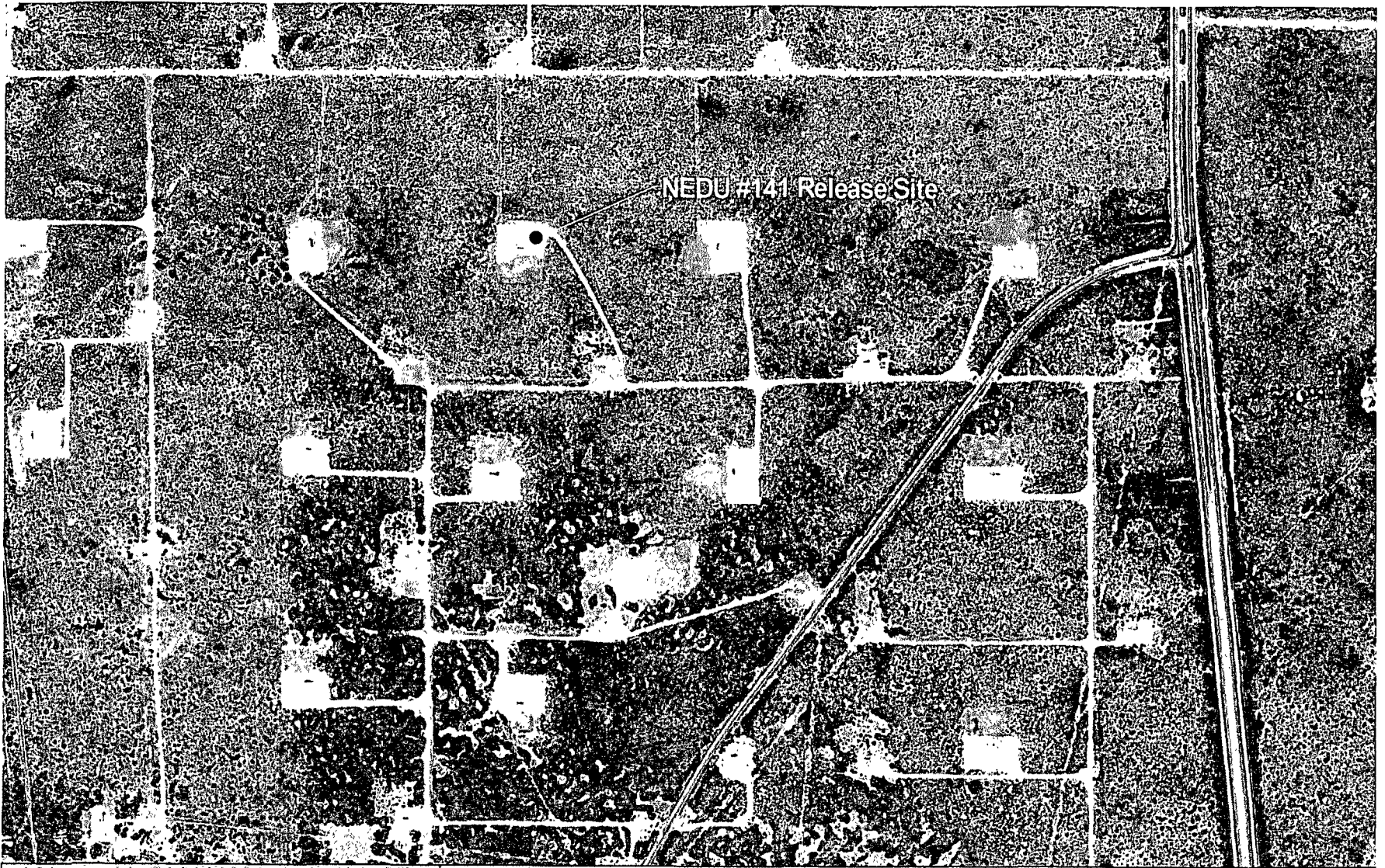


Plate 3
Release Site Aerial Photograph
Apache Corporation
NEDU #141

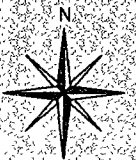
Lea County, New Mexico
UL-D SECTION 2 T21S R37E
N 32° 31.277', W 103° 8.309'
Elevation: ~3506-ft amsl

Drawing by: John Good
August - 2009

Rev.
1

SCALE

0 Feet 1200



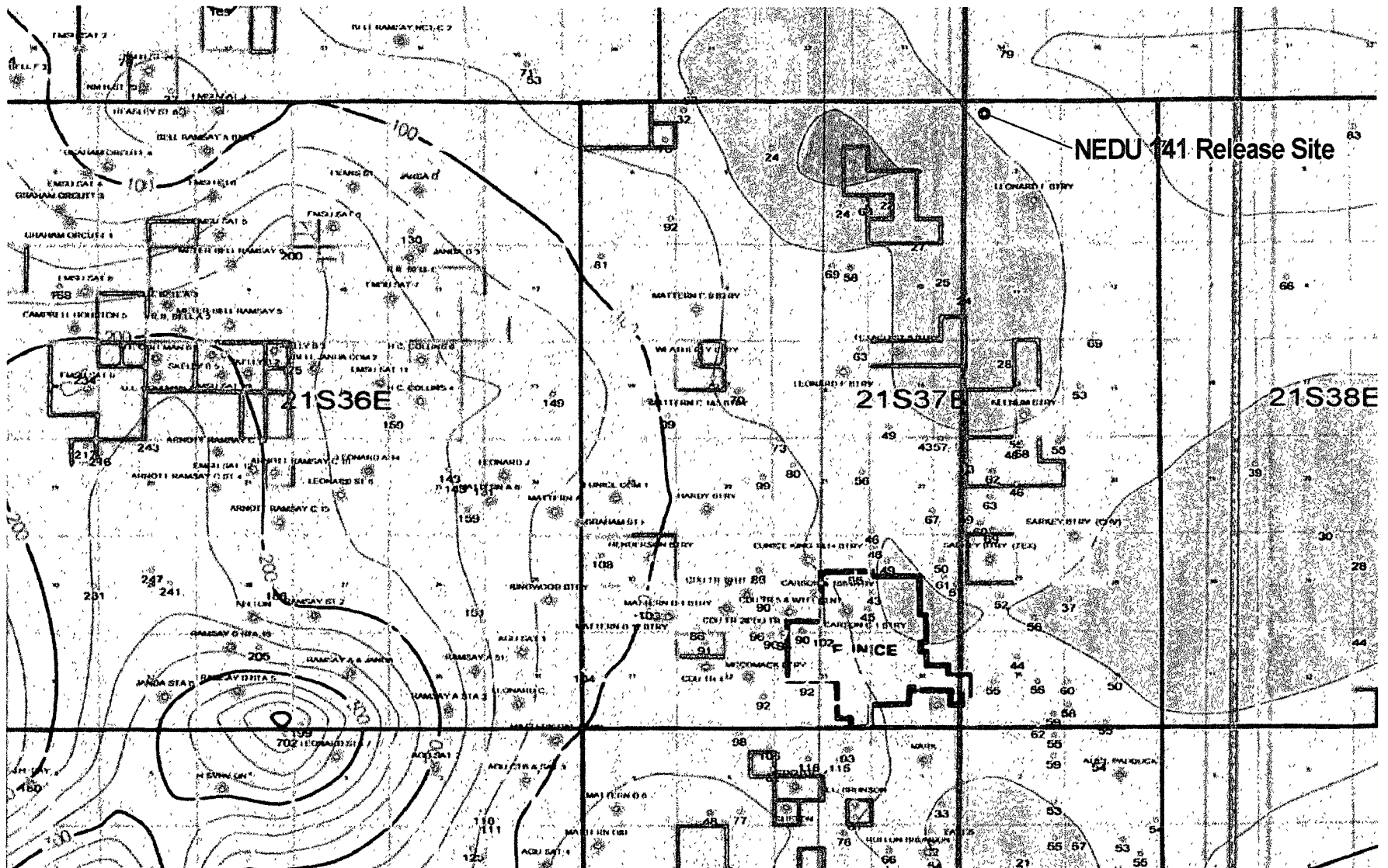


Plate 4
Release Site Water Depth Contour
Apache Corporation
NEDU #141

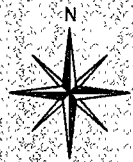
Lea County, New Mexico
UL-D SECTION 2 T21S R37E
N 32° 31.277' W 103° 8.309'
Elevation: ~3506-ft amsl

Drawing by: John Good
August - 2009

Rev
1

SCALE:

0 Mile 3



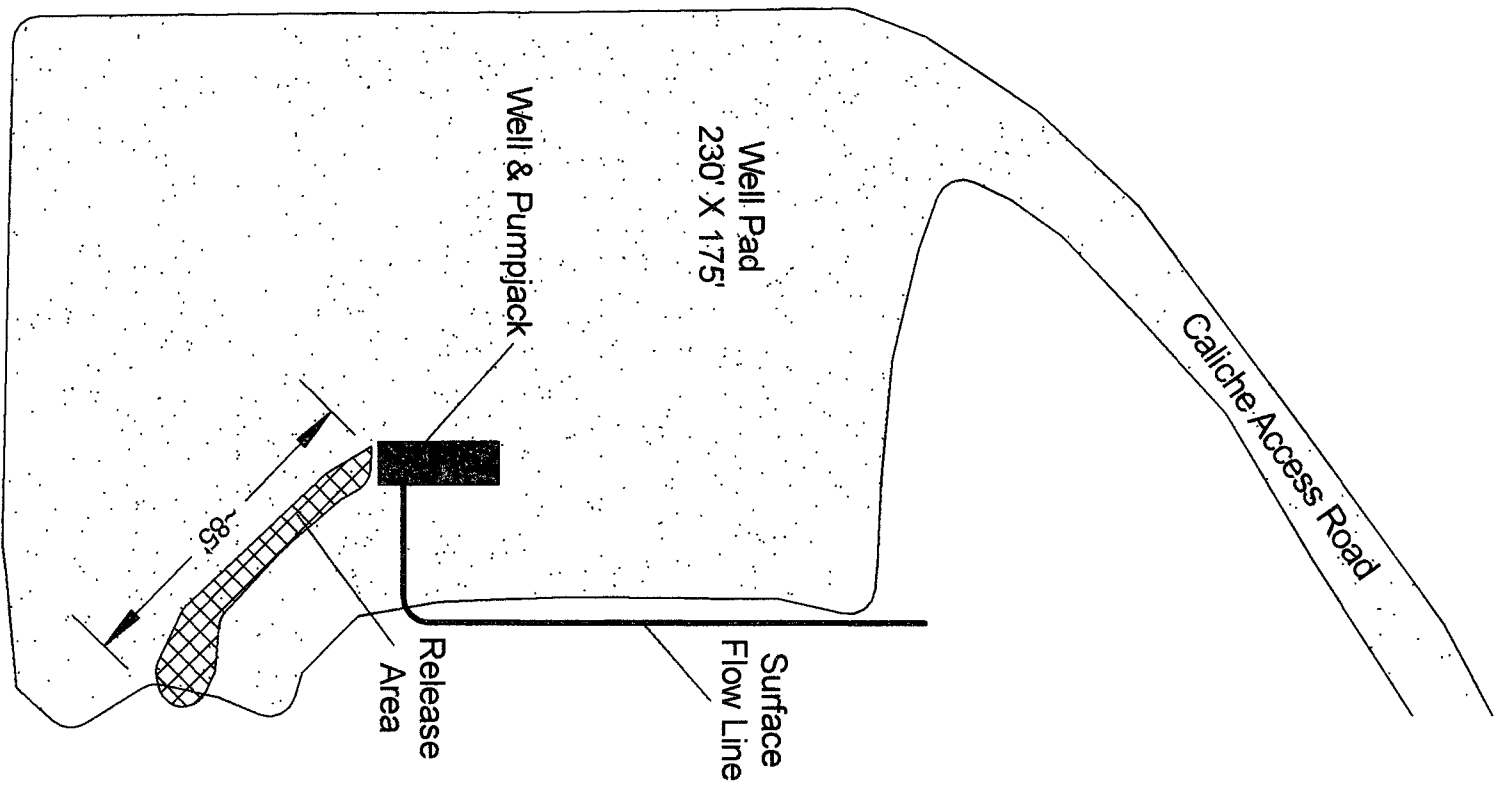


Plate 5
Release Site Diagram
Apache Corporation
NEDU #141

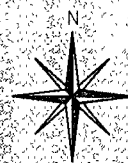
Lea County, New Mexico
UL-D SECTION 2 T21S R37E
N 32° 31' 27.7" W 103° 8' 30.9"
Elevation: ~3506-ft amsl

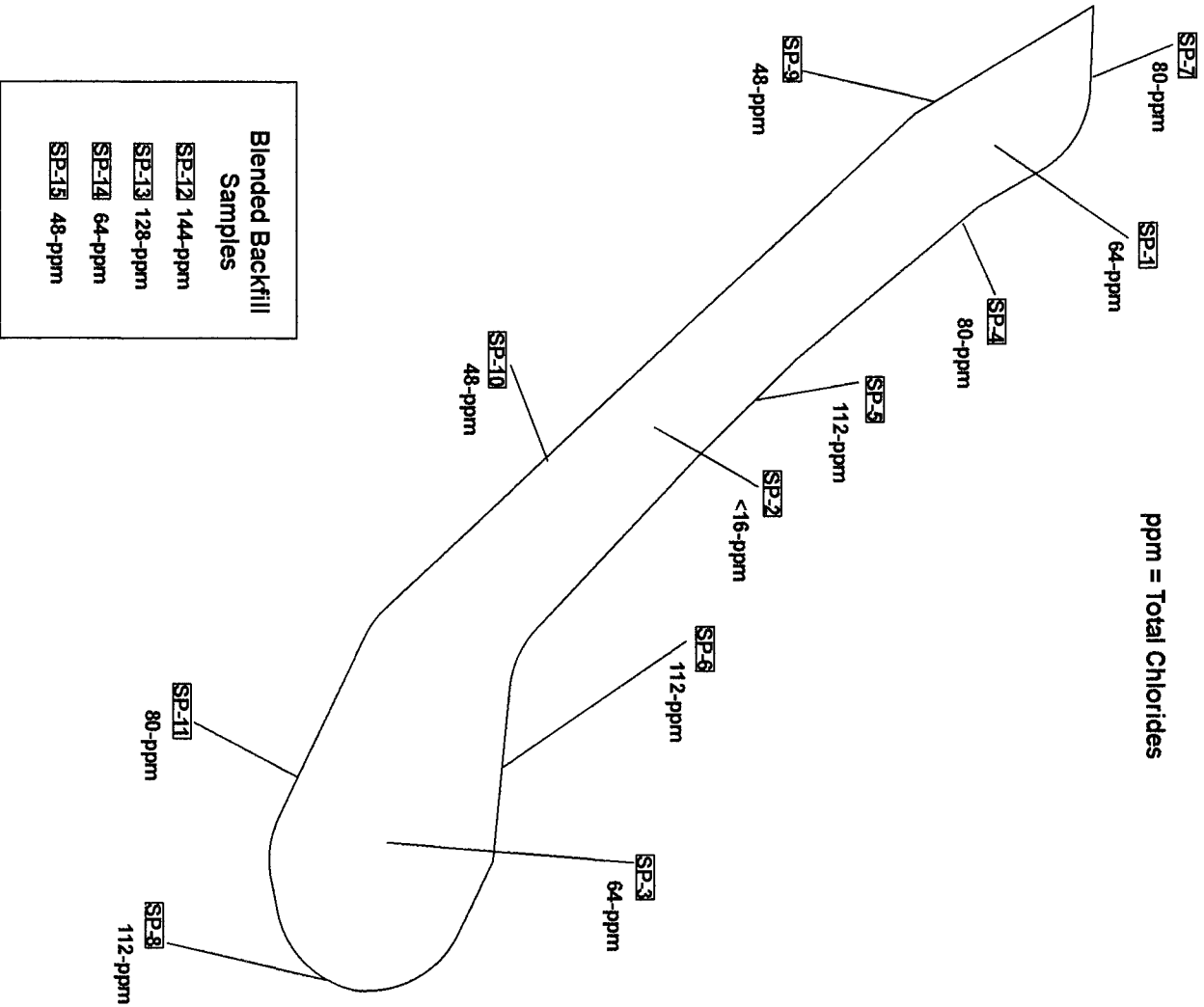
Drawing by: John Good
August - 2009

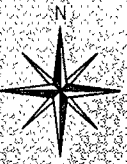
Rev:
1

SCALE:

0 Feet 100





<p>Plate 6 Sampling Diagram w/CI Results Apache Corporation NEDU #141</p>	<p>Lea County, New Mexico UL-D SECTION 2 T21S R37E N 32° 31.277' W 103° 8.309' Elevation ~3506-ft amsl</p>	<p>Drawing by: John Good August - 2009</p> <p>SCALE: 0 25 Feet</p>	<p>Rev: 1</p> 
---	--	--	---



ANALYTICAL RESULTS FOR
ELKE ENVIRONMENTAL, INC.
ATTN: JOHN GOOD
P.O. BOX 1830
HOBBS, NM 88241
FAX TO: (575) 738-0140

Sampling Date: 03/05/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: CK/HM

LAB NUMBER SAMPLE ID		GRO (C ₆ -C ₁₀) (mg/kg)	DRO (C ₁₀ -C ₂₈) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		03/07/08	03/07/08	03/09/08
H14402-1	BTM-E	<10.0	<10.0	64
H14402-2	BTM-C	<10.0	<10.0	<16
H14402-3	BTM-W	<10.0	<10.0	64
H14402-4	SWS-E	<10.0	<10.0	80
H14402-5	SWS-C	<10.0	<10.0	112
Quality Control		414	534	490
True Value QC		500	500	500
% Recovery		82.8	107	98.0
Relative Percent Difference		4.7	<0.1	<0.1

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

03/11/08
Date

H14402TCL ELKE

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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ELKE ENVIRONMENTAL, INC.
ATTN: JOHN GOOD
P.O. BOX 1830
HOBBS, NM 88241
FAX TO: (575) 738-0140

Receiving Date: 03/07/08
Reporting Date: 03/11/08
Project Owner: APACHE CORPORATION
Project Name: NEDU #141
Project Location: UL-D S2 T21S R37E

Sampling Date: 03/05/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: CK/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
		03/08/08	03/08/08	03/09/08
H14402-6	SWS-W	<10.0	<10.0	112
H14402-7	SWE-C	<10.0	<10.0	80
H14402-8	SWW-C	<10.0	<10.0	112
H14402-9	SWN-E	<10.0	<10.0	48
H14402-10	SWN-C	<10.0	<10.0	48
H14402-11	SWN-W	<10.0	<10.0	80
H14402-12	BLEND-1	<10.0	<10.0	144
H14402-13	BLEND-2	<10.0	<10.0	128
H14402-14	BLEND-3	<10.0	<10.0	64
H14402-15	BLEND-4	<10.0	<10.0	48
Quality Control		426	478	490
True Value QC		500	500	500
% Recovery		85.2	95.6	98.0
Relative Percent Difference		1.0	2.4	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Std. Methods 4500-CFB

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

Chemist

Date

H14402TCLA ELKE

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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240


ANALYTICAL RESULTS FOR
ELKE ENVIRONMENTAL, INC
ATTN: JOHN GOOD
P.O. BOX 1830
HOBBS, NM 88241
FAX TO: (575) 738-0140

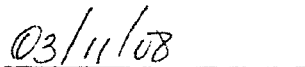
Receiving Date: 03/07/08
Reporting Date: 03/10/08
Project Owner: APACHE CORPORATION
Project Name: NEDU #141
Project Location: UL-D S2 T21S R37E

Sampling Date: 03/05/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		03/08/08	03/08/08	03/08/08	03/08/08
H14402-1	BTM-E	<0.002	<0.002	<0.002	<0.006
H14402-2	BTM-C	<0.002	<0.002	<0.002	<0.006
H14402-3	BTM-W	<0.002	<0.002	<0.002	<0.006
H14402-4	SWS-E	<0.002	<0.002	<0.002	<0.006
H14402-5	SWS-C	<0.002	<0.002	<0.002	<0.006
H14402-6	SWS-W	<0.002	<0.002	<0.002	<0.006
H14402-7	SWE-C	<0.002	<0.002	<0.002	<0.006
H14402-8	SWW-C	<0.002	<0.002	<0.002	<0.006
H14402-9	SWN-E	<0.002	<0.002	<0.002	<0.006
H14402-10	SWN-C	<0.002	<0.002	<0.002	<0.006
H14402-11	SWN-W	<0.002	<0.002	<0.002	<0.006
H14402-12	BLEND-1	<0.002	<0.002	<0.002	<0.006
H14402-13	BLEND-2	<0.002	<0.002	<0.002	<0.006
H14402-14	BLEND-3	<0.002	<0.002	<0.002	<0.006
H14402-15	BLEND-4	<0.002	<0.002	<0.002	<0.006
Quality Control		0.085	0.093	0.090	0.259
True Value QC		0.100	0.100	0.100	0.300
% Recovery		84.7	93.3	89.6	86.3
Relative Percent Difference		0.5	1.4	2.4	0.2

METHOD: EPA SW-846 8260


Cheryl Keane
Chemist


03/11/08
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. 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

[illegible]

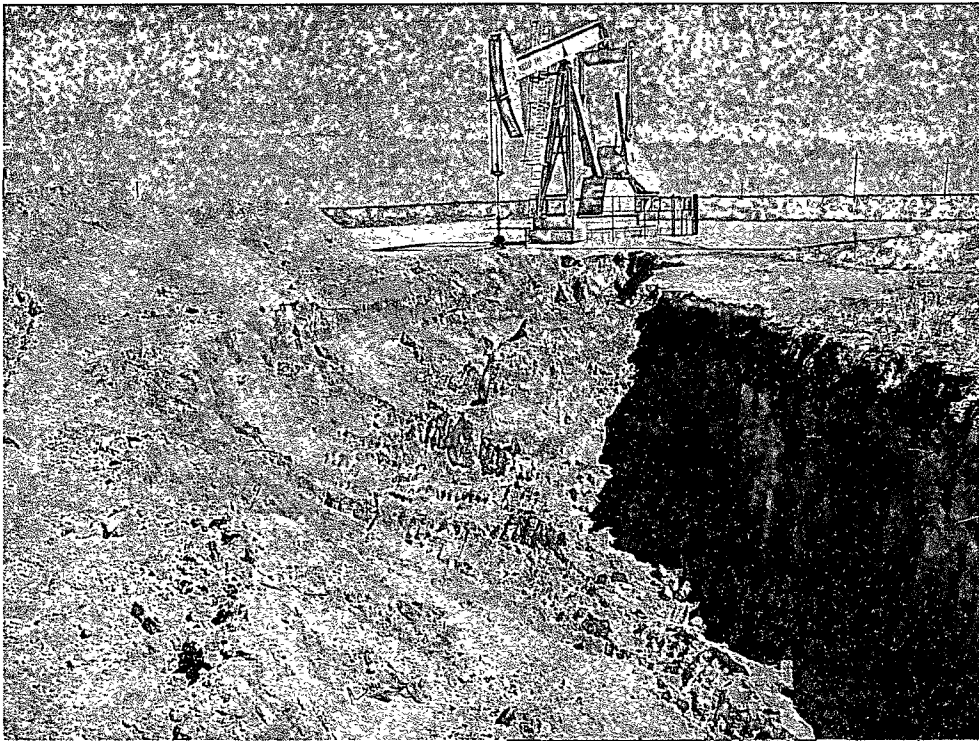


< 2/26/08 – Excavating
flow path southwest of well

2/26/08 – Excavating flow path
southwest of well >

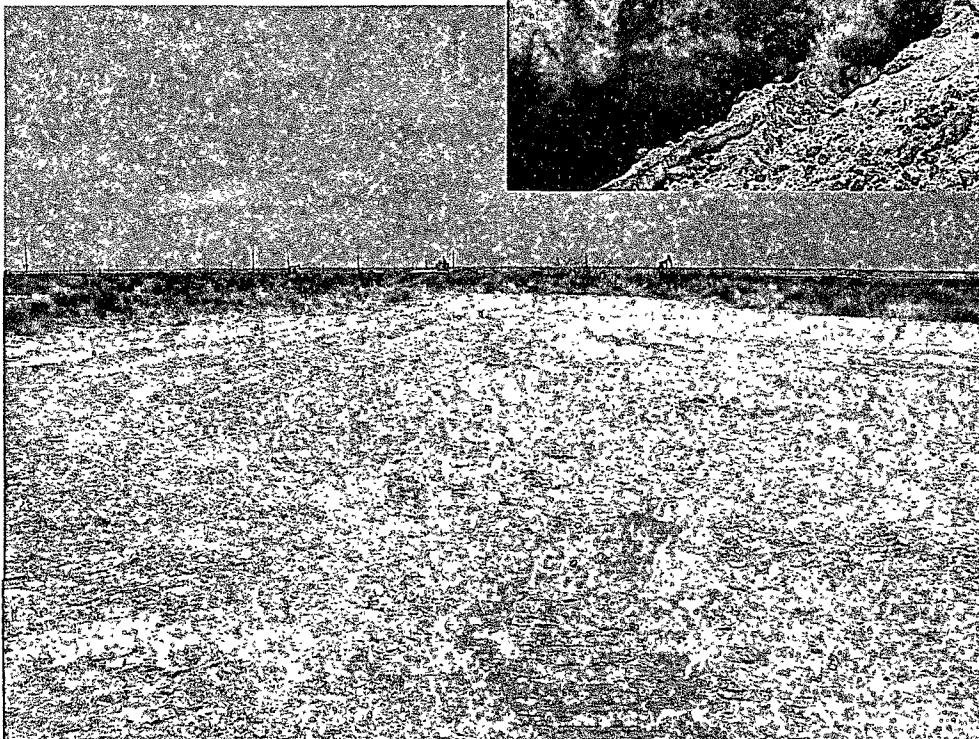
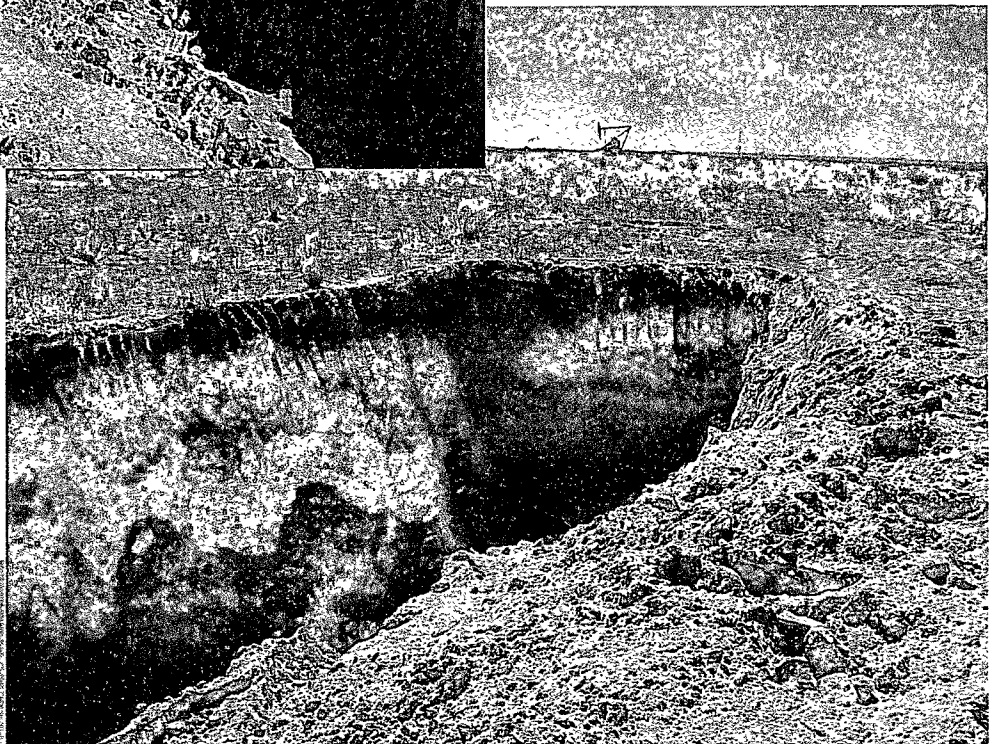


< 2/26/08 – Soil stockpiled
on pad surface for blending



< 2/28/08 – Excavation extended laterally and blended soil ready for backfill

2/28/08 – Southwest portion of excavation prior to backfill >



< 3/6/08 – Pad surface restored with clean caliche

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

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden	
Address P.O. Box 1849, Eunice NM 88231	Telephone No. 505-390-4186	
Facility Name NEDU #141	Facility Type	
Surface Owner	Mineral Owner	Lease No. 30-025-35469

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	2	21S	37E	330	North Line	1200	West Line	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil/Wtr	Volume of Release 9	Volume Recovered 0
Source of Release Stuffing Box	2/10/08	2/10/08
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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.*

Back pressure valve plugged up causing stuffing box to leak. Contractor called out dug up contaminated soil.

Describe Area Affected and Cleanup Action Taken *

Apache will clean contaminated area and follow NMOCD guidelines for remediation.

RECEIVED

FEB 14 2008

HOBBS OCD

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: <i>Natalie Gladden</i>	OIL CONSERVATION DIVISION <i>[Signature]</i>	
Printed Name: Natalie Gladden	Approved by District Environmental Engineer	
Title: EH&S Environmental Tech	Approval Date: 2.14.08	Expiration Date: 4.14.08
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 02/14/08 Phone: 505-390-4186		1 PP. 1784

* Attach Additional Sheets If Necessary



Incident Date: 2/10/08 NMOCD Notified: 2/10/08

SITE: NEDU 141		API No. 30-025-35469	
Company: Apache Corporation			
Street Address: North Eunice Loop, Hwy 207			
Mailing Address: P.O. Box 1849			
City, State, Zip: Eunice, NM 88231			
Representative: Natalie Gladden			
Representative Telephone: 575-390-4186			
Telephone:			
Fluid Volume Released (bbl): > 9		Volume Recovered (bbl): 0	Net Release: > 9
>25 bbl: Notify NMOCD verbally within 24 hours and submit C-141 within 15 days.			
5-25 bbl: Submit Form C-141 within 15 days. (Also applies to unauthorized release of >50 mcf Natural Gas).			
Leak, Spill, or Pit (LSP) Name: NEDU 141			
Source of Contamination: Stuffing Box			
Land Owner, i.e. BLM, ST, Fee, Other: State of NM			
LSP Dimensions: ~ 15' X 85' (maximum dimensions)			
LSP Area ~ 1275 -ft ²			
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude: North		32	31.277
Longitude: West		103	8.309
Elevation above mean sea level (amsl):		3506 feet	1069 meters
Distance from North Section Line (feet):		330	
Distance from West Section Line (feet):		1200	
Location - Unit Letter and 1/4 1/4:		UL- D	NW 1/4 of NW 1/4
Location - Section		2	
Location - Township		21S	
Location - Range		37E	
Location - County		Lea	
Surface water body within 1000' radius of site:		0	
Surface water body within 1000' radius of site:		0	
Domestic water wells within 1000' radius of site:		0	
Domestic water wells within 1000' radius of site:		0	
Agricultural water wells within 1000' radius of site:		0	
Agricultural water wells within 1000' radius of site:		0	
Public water supply wells within 1000' radius of site:		0	
Public water supply wells within 1000' radius of site:		0	
Depth (feet) from land surface to Ground Water (DG):		70	
Depth (feet) of lowest contamination (DC):		10	
Depth (feet) to Ground Water (DG - DC = DtGW):		~ 60	
1. Ground Water		2. Wellhead Protection Area	3. Distance to Surface Water
If Depth to GW <50-feet: 20 points		If <1000' from water source, or, <200' from private domestic water source:	<200 horizontal feet: 20 points
If Depth to GW 50 to 100-feet: 10 points		20 points	200-1000 horizontal feet: 10 points
If Depth to GW >100-feet: 0 points		If >1000' from water source, or, >200' from private domestic water source: 0 points	>1000 horizontal feet: 0 points
Ground Water Score: 10		Wellhead Protection Score: 0	Surface Water Score: 0
Site Ranking (1 + 2 + 3): 10			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	20 or >	10	0
Benzene ¹	10-ppm	10-ppm	10-ppm
BTEX ¹	50-ppm	50-ppm	50-ppm
TPH	100-ppm	1000-ppm	5000-ppm

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 R10 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

Form C-141

Revised June 10, 2003

RECEIVED

AUG 17 2009 Oil Conservation Division

HOBBSOCD

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit 2 Copies to appropriate

District Office in accordance

with Rule 116 on back

side of form.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Apache Corporation	Contact	Natalie Gladden
Address	P.O. Box 1849	Telephone No.	575-390-4186
	Eunice, NM 88231		
Facility Name	NEDU 141	Facility Type	Production Well

Surface Owner	State of NM	Mineral Owner	State of NM	API No	30-025-35469
---------------	-------------	---------------	-------------	--------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from North Line	Feet from West Line	Longitude-W	Latitude-N	County
D	2	21S	37E	330	1200	103.1385	32.5213	Lea

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil w/ associated Produced Water	Approx 9 bbl	0 bbl
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Stuffing Box	02/10/08	02/10/08

Was Immediate Notice Given?	If YES, To Whom?
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> Not Required	

By Whom?	Date and Hour
----------	---------------

Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	NA

If a Watercourse was Impacted, Describe Fully*

Describe Cause of Problem and Remedial Action Taken *
Back-pressure valve plugged up causing stuffing box to leak. Repairs facilitated to stop leakage. Preliminary excavation and disposal of grossly contaminated soil.

Describe Area Affected and Cleanup Action Taken. *
Release affected flowpath (~1300-ft ²) was excavated to achieve sidewall and bottom concentrations less than the regulatory limits. Contaminated soil was blended with clean soil obtained from lateral extension of the excavation. Blended concentrations were less than regulatory limits. Remediation and restoration was completed by ELKE Environmental, Hobbs, NM.

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: Natalie Gladden	Approved by District Supervisor		
Title: Environmental Tech - Permian Basin	Approval Date:	Expiration Date	
E-Mail Address: Natalie.Gladden@usa.apachecorp.com	Conditions of Approval:	1RP# 1784	
Date: 8/6/2009 Phone: 575-390-4186	<input type="checkbox"/> Attached		