January 20, 2006

Mr. Paul Sheeley, Environmental Engineer New Mexico Oil Conservation Division 1625 North French Hobbs, New Mexico 88240

Re:

Status Report and Delineation Proposal

Apache Corporation NEDU 809, (Ref. #240011)

UL-H of Section 22, T21S, R37E

Latitude 32° 28' 0.9"N and Longitude 103° 8' 40.1"W

Landowner: C.A. Bettis

Dear Mr. Sheeley:

On October 21, 2005, Environmental Plus, Inc. (EPI) was retained by Apache Corporation (Apache) to document, mitigate and remediate the injection water release that occurred at the above referenced location (reference C-141).

**MITIGATION** 

After the line was shut-in and repaired, initial mitigation activities commenced with the disposal of approximately 480 barrels of saline produced water (i.e., 3,200 to 3,700 mg/L chloride as per Apache) recovered from the surface pooling areas followed by stockpiling of the saturated near surface soil in a 10 mil polyethylene lined and bermed soil storage area. The initial C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on October 28, 2005.

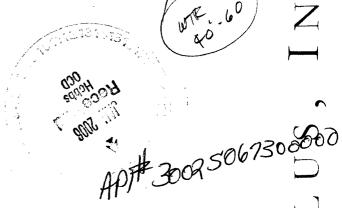
**CURRENT REMEDIATION STATUS** 

Impacted soils to a depth of 5 to 7-feet below ground surface within the initial spill area perimeter have been excavated and represent an estimated volume of 5,655 yd<sup>3</sup>. From October 24, 2005 to November 1, 2005, 1.736 vd<sup>3</sup> of impacted soil were transported to Sundance for disposal; the remaining estimated volume of 3,919 yd<sup>3</sup> is stockpiled on site and has an average chloride concentration of 828 mg/Kg.

**DELINEATION SUMMARY** 

On November 1, 2005, to confirm remediation status, as directed by Apache, soil samples were collected from the floor of the excavation and from the stockpiled soil and submitted to the laboratory for quantification of chloride residuals. Analytical results for the stockpile samples ranged from 720 mg/Kg to 880 mg/Kg and are in excess of the NMOCD chloride remedial goal of 250 mg/Kg. Analytical results for the samples collected from the floor of the excavation ranged from an acceptable 112 mg/Kg in the Southeast Flowpath North sample to 848 mg/Kg in the North Flowpath and Central Flowpath samples (reference Figure 1). Laboratory TPH and BTEX analyses will be performed on selected closure samples to confirm acceptable levels but were not warranted during this sampling event. The analytical results are summarized below and the analytical report and the annotated sample location map are attached. The current excavated interval does not adequately delineate the vertical extent of this release.

incident-0 PACO713149642 application-pPACO713/49728





## Apache Corporation NEDU #809 Chloride Delineation

		Sampling	Chloride	
Sample Location	Sample ID (Map#)	Interval	(Laboratory)	(Field)
	Сетьрю 12 (тари)	feet below ground surface	mg/Kg	mg/Kg
Southeast Flowpath North	Apache #1 (#1)	5 112		480
Southeast Flowpath South	Apache #2 (#2)	6	800	1,320
Central Flowpath	Apache #3 (#3)	7	848	1,280
Northeast Flowpath	Apache #4 (#4)	6	592	1,260
North Flowpath	Apache #5 (#5)	6	848	1,360
Spoils Pile Southeast Corner	Apache Pile SE Corner (#6)	-	720	1,240
Spoils Pile Northeast Corner	Apache Pile NE Corner (#7)	_	864	1,300
Spoils Pile Southwest Corner	Apache Pile SW Corner (#8)	_	848	1,300
Spoils Pile Northwest Corner	Apache Pile NW Corner (#9)	- 880		1,360
Background	NEDU 809 Background	Surface	na	460

na - not analyzed

#### **DELINEATION PROPOSAL**

To determine the vertical extents of impact, it is proposed to collect soil samples from four strategically located soil borings (reference Figure 2) at 5-foot vertical intervals and submitted to an independent laboratory for chloride analysis with selected samples analyzed for TPH and BTEX. Sampling will cease when field analyses for consecutive samples are less than the local background concentration as determined by field analysis. All information will be collected consistent with the EPI Standard Operating Procedures and Quality Assurance Quality Control Plan. This information will be summarized in a delineation report proposing a reasonable remediation strategy and submitted to the NMOCD for approval. The NMOCD will be notified at least 48 hours prior to sample collection.

Should you have any questions or concerns please feel free to contact Iain Olness or myself at (505)394-3481 or Mr. Mike Warren at (505)394-2743. All official communications should be addressed to:

Apache Corporation Mike Warren, Area Supervisor P.O. Box 1849 Eunice, New Mexico 88231

Sincerely,

Pat McCasland Consultant

cc: Mike Warren, Apache Corporation (Mike.Warren@ApacheCorp.com)

Bryan Tinsley, Apache Corporation (Bryan.Tinsley@ApacheCorp.com)

Guinn Burks, Apache Corporation (Guinn.Burks@ApacheCorp.com)

David Urbanski, Apache Corporation (David. Urbanski@ApacheCorp.com)

file

Exhibits:

Figure 1 - Sample Location Map

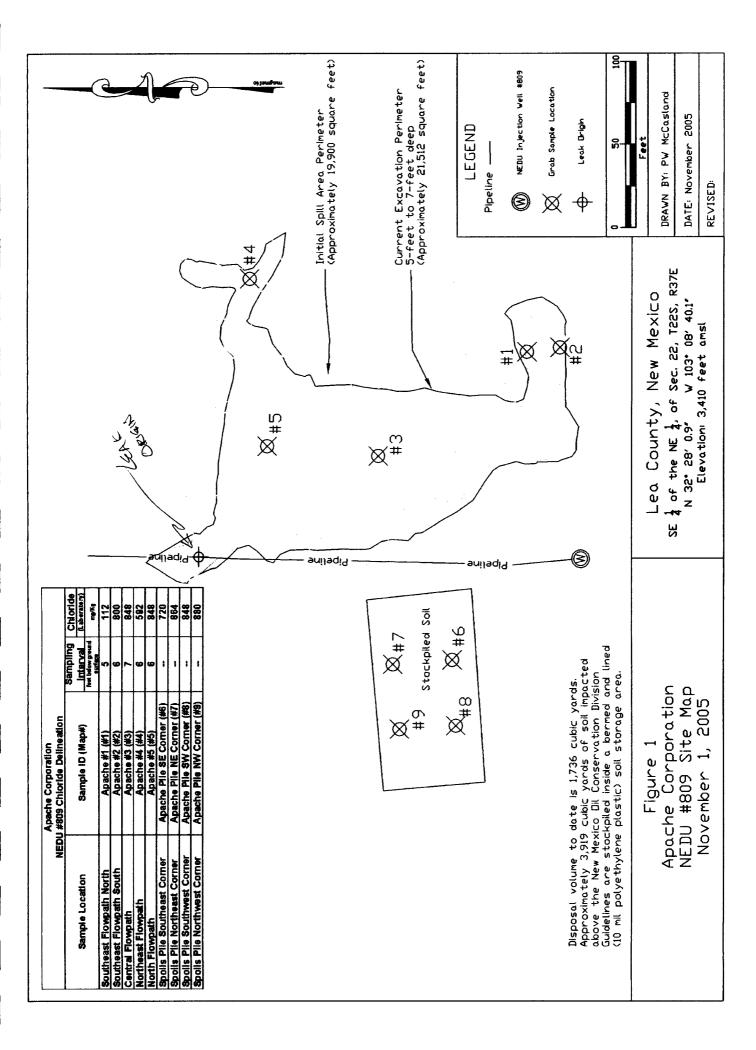
Figure 2 – Proposed Soil Boring Map

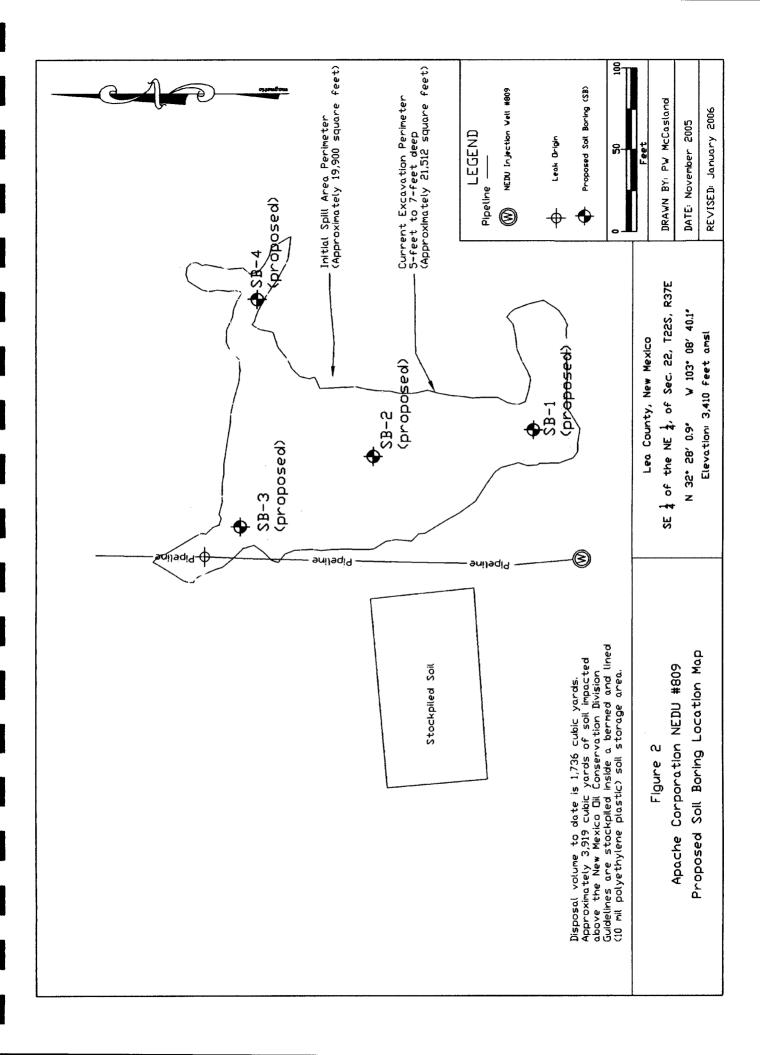
Laboratory Report

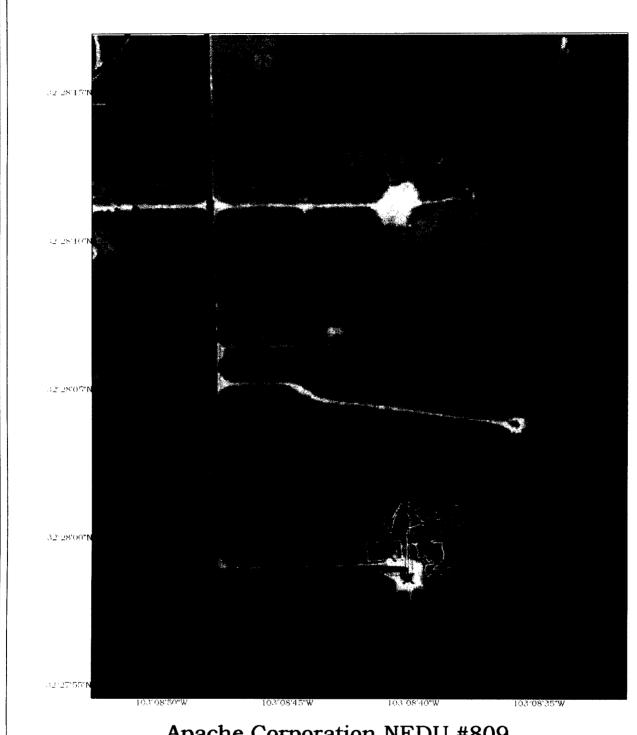
**Photographs** 

Site Information and Metrics Form

C-141

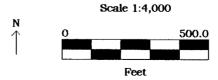






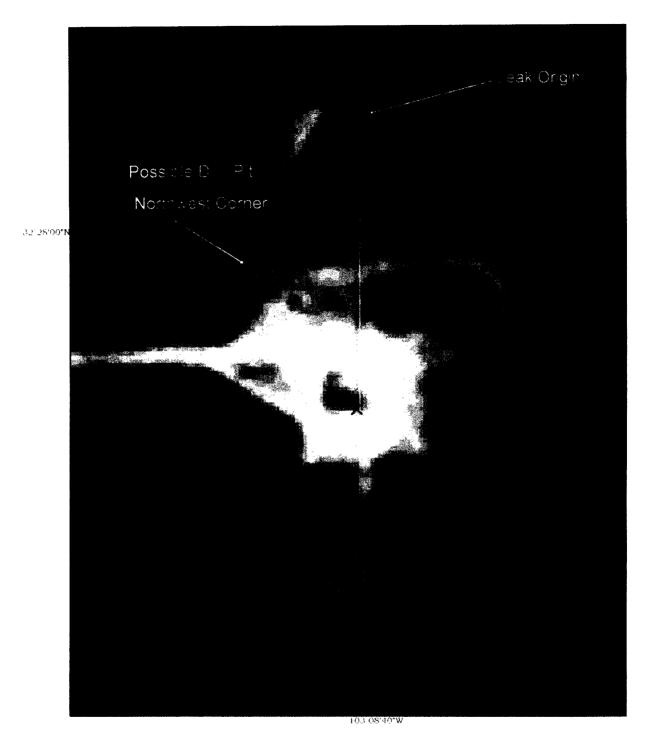
## Apache Corporation NEDU #809 Aerial 1997 (USGS)

UTM 13 North NAD 1983 (Conus)



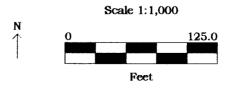
Multiple Files 11/10/2005





# Apache Corporation NEDU #809 Aerial 1997 (USGS)

UTM 13 North NAD 1983 (Conus)



NEDU 809.cor 11/10/2005







394-

PHONE (325) 673-7691 . 2111 BEECHANOOD - ABILENE, TX 79603

PHONE (505) 393-2326 . 161 E. MARLAND ... HOBBS, NJA 98240

ANALYTICAL RESULTS FOR APACHE CORP. ATTN: MIKE WARREN P.O. BOX 1849 EUNICE, NM 88231 FAX TO: (605) 394-2425

Receiving Date: 11/01/05
Reporting Date: 11/03/05
Project Number: NEDU #809
Project Name: NOT GIVEN
Project Location: EUNICE, NM

Analysis Date: 11/03/05 Sampling Date: NOT GIVEN

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

CIT

LAB NUMBER	SAMPLE ID	(mg/Kg)
H10359-1	APACHE#1	112
H10359-2	APACHE#2	800
H10359-3	APACHE#3	848
H10359-4	APACHE #4	592
H10359-5	APACHE#5	848
H10359-6	APACHE PILE SE CORNER	720
H10359-7	APACHE PILE NE CORNER	864
H10359-8	APACHE PILE SW CORNER	848
H10359-9	APACHE PILE NW CORNER	880
Quality Control		980
True Value QC		1000
% Recovery		98.0
Relative Percent	1.0	

METHOD: Standard Methods 4500-CFB
NOTE: Analyses performed on 1:4 w;v aqueous extracts.

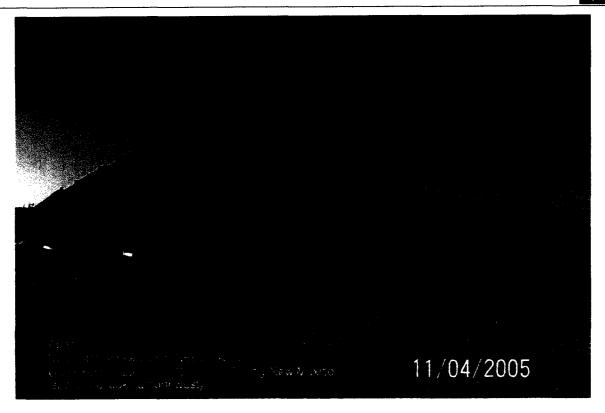
Chemist Y Hill

11305

H10359

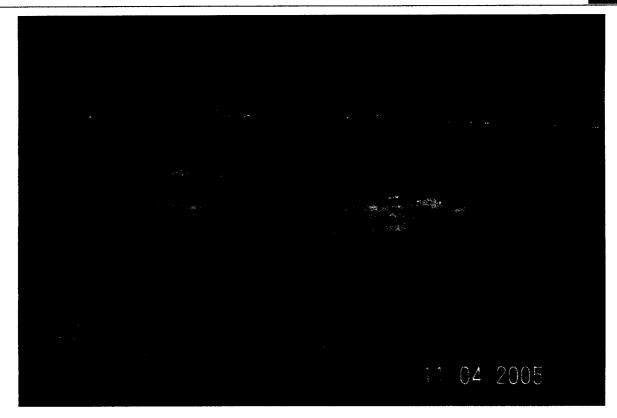
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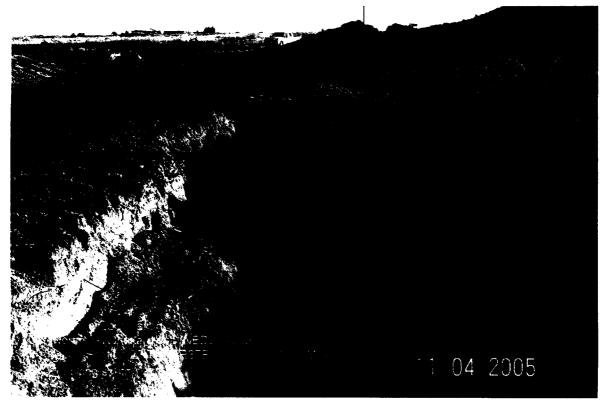














Northwest come of soil storage area ((Water from stored soil))

Apache Corporation
Northelast Drankard unit: NEDU) #31.2
ULB Section 22 T215 #37E Lea Doubty New Mexico



Apache Corporation Site Information and Metrics  SITE: NEDU 809  Assigned Site Reference #: 240011  Company: Apache Corporation  Street Address: PO Box 1849  Mailing Address: 1.5 miles North of Eunice  City, State, Zip: Eunice, New Mexico 88231  Representative: Mike Warren  Representative Telephone: 505.394.2743  Telephone:  Fluid volume released (bbls): ~600-800 bbls  Set oblis: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.  (Also applies to unauthorized releases >500 mcf Natural Gas)  5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)  Leak, Spill, or Pit (LSP) Name: NEDU 809  Source of contamination: Water injection system line  Land Owner, i.e., BLM, ST, Fee, Other: C.A. Bettis  LSP Dimensions  LSP Area: 19,900 ft <sup>2</sup> Location of Reference Point (RP)  Location distance and direction from RP  Latitude: 32 28' 0.9"N  Longitude: 103 8' 40.1"W  Elevation above mean sea level: 3,410'amsl  Feet from South Section Line  Feet from West Section Line  Feet from West Section Line  Location- Unit or ¼½: SE½ of the NE½ Unit Letter: H  Location- Township: T21S  Location- Range: R37E						
Information and Metrics   10/21/2005   10/21/2005    SITE: NEDU 809   Assigned Site Reference #: 240011    Company: Apache Corporation    Street Address: PO Box 1849    Mailing Address: 1.5 miles North of Eunice    City, State, Zip: Eunice, New Mexico 88231    Representative: Mike Warren    Representative: Telephone: 505.394.2743    Telephone: Fluid volume released (bbls): ~600-800 bbls   Recovered (bbls): 480    >25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)    Leak, Spill, or Pit (LSP) Name: NEDU 809    Source of contamination: Water injection system line    Land Owner, i.e., BLM, ST, Fee, Other: C.A. Bettis    LSP Dimensions    LSP Area: 19,900 ft²    Location of Reference Point (RP)    Location distance and direction from RP    Latitude: 32 28' 0.9"N    Longitude: 103 8' 40.1"W    Elevation above mean sea level: 3,410'amsl    Feet from South Section Line    Feet from West Section Line    Feet from West Section Line    Feet from West Section Line    Location- Township: T21S						
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Location- Section: 22 Location- Township: T21S						
Location- Township: T21S	.,					
Location- Range: R37E						
	·····					
Surface water body within 1000 ' radius of site: none						
Surface water body within 1000 ' radius of site:						
Domestic water wells within 1000' radius of site: none						
Domestic water wells within 1000' radius of site:						
Agricultural water wells within 1000' radius of site: none						
Agricultural water wells within 1000' radius of site:						
Public water supply wells within 1000' radius of site: none						
Public water supply wells within 1000' radius of site:						
Depth from land surface to ground water (DG) ~68'bgs						
Depth of contamination (DC) – ?						
Depth to ground water (DG – DC = DtGW) - 50-100 feet						
1. Ground Water 2. Wellhead Protection Area 3. Distance to Surface W						
If Depth to GW <50 feet: 20 points If <1000' from water source, or; <200' from <200 horizontal feet: 20						
If Depth to GW 50 to 99 feet: 10 points private domestic water source: 20 points 200-100 horizontal feet:	0 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	oints					
Ground water Score = 10 Wellhead Protection Area Score = 0 Surface Water Score = 0						
Site Rank $(1+2+3) = 10$						
Total Site Ranking Score and Acceptable Concentrations						
Parameter >19 10-19 0-9						
Benzene <sup>1</sup> 10 ppm 10 ppm 10 ppm						
BTEX <sup>T</sup> 50 ppm 50 ppm 50 ppm						
TPH 100 ppm 1000 ppm 5000 ppm						
100 ppm field VOC headspace measurement may be substituted for lab analysis						

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

Submit 2 Copies to appropriate District Office in accordance

with Rule 116 on back side of form

Form C-141

Revised March 17, 1999

#### **Release Notification and Corrective Action OPERATOR** Final Report Contact Name of Company **Apache Corporation** Mike Warren Telephone No. Address PO Box 1849, Eunice, New Mexico 88231 505.394.2743 **Facility Type Facility Name** Water injection system line **NEDU 809** Lease No. Surface Owner Mineral Owner C.A. Bettis LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line | Feet from the | East/West Line | County:

H	22	T21S	R37E	Tool Hom ale	Troids South Bills			County.	Lou
		Lat	itude: 3	32 28' 0.9"N	Lo	ngitude: 10	3 8' 40.1"W		
				NATU	RE OF RELI	CASE			
Type of Rele	ase				Volume o	f Release		Volume Reco	
Produced Water				600-800	600-800 barrels 480 barrels				
Source of Release				Date and	Date and Hour of Occurrence Date and Hour of Disc			ur of Discovery	
Water injecti	Water injection system line					10/21/2005 AM 10/21/2005 PM			PM (P)
Was Immediate Notice Given?  ☐ Yes ☐ No ☐ Not Required					If YES, To Whom? Paul Kautz				
By Whom? Mike Warren, Apache					Date and Hour 10/21/2005 PM				
Was a Watercourse Reached?  Yes No					If YES, Volume Impacting the Watercourse.				
If a Watercou	ırse was Imp	pacted, Describe	Fully.*						
2" Fiberglass 480 garrels o	injection pip f produced v		he line wa	as shut in and rep	aired and a vacuum	trucks were util	lized to recove	er and dispose	of approximately
The site will will not be ca	be delineated pable of imp	d and remediate pacting local great	ed in accor oundwater	rdance with the N r in excess of the		kico Water Qual	lity Control Co	ommission St	a concentration that andard; TPH 8015m Kg.
I hereby certifications a public health should their chealth or the	fy that the in all operators a or the environ perations ha environment	nformation give are required to re- conment. The ac- ave failed to add	n above is report and ecceptance equately in	s true and comple for file certain rel- of a C-141 report exercipate and ren- ecceptance of a C-	te to the best of my ease notifications at by the NMOCD m nediate contaminati	knowledge and nd perform correarked as "Final on that pose a the	understand the ective actions Report" does need to ground	at pursuant to for releases w not relieve the d water, surfac	NMOCD rules and which may endanger e operator of liability
Signature:						OIL CONSERVATION DIVISION			
Printed Name	e: Mike War	ren			Approv	ed by District S	upervisor:		
Title: Area S	Supervisor		<u>-</u>		Approv	Approval Date: Expiration Date:			
Date:		Phone: 505.39	4.2743		Condit	ons of Approva	1:		Attached

<sup>\*</sup> Attach Additional Sheets If Necessary