



303 Veterans Airpark Lane Midland, TX 79705

## **Remediation Plan**

June 4, 2024

Re: NEDU 613  
Case nAPP240744539

### **Background:**

On 03/07/2024 a release occurred due to corrosion on a 6" steel injection line. The release (GPS: 32.4802054, -103.1438498) is located north of Eunice, New Mexico in unit letter H section 15 township 19S range 36E. Using data collected from the closure reported submitted and closed by OCD 07/06/2022 for the NEDU 627 Pit 1RP-1357. The soil bores conducted in 2019 demonstrated the presence of no groundwater.

Discrete vertical and horizontal grab samples were collected to delineate the release. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

### **Remediation Plan:**

Apache Corporation proposes that the release area to be excavated to depths ranging from 2 to 4 feet. Final 5-point bottom and wall samples will be collected not to exceed 400 square feet. All samples collected will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated (2,176 yards) soil will be disposed of at an OCD approved disposal facility. Once Laboratory results are less than table one standards for releases greater than 100 feet to groundwater and the reclamation are achieved the excavation will be backfilled with clean imported topsoil to ground to ground surface and contoured to the surrounding area. The disturbed area will be reseeded in accordance with the revegetation and noxious weed plan. The remediation will be completed within 90 days of OCD and SLO approval of the plan.

Enclosed: C-141, Groundwater Data (1RP-1357 Closure Report), Maps, Sample Data, and Laboratory Results.

Submitted by.

*Larry Baker*

**Environmental Technician**  
larry.baker@apachecorp.com  
**Office # 432-818-1654**  
**Cell# 432-250-8384**

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	> 100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Larry Baker Title: Environmental Specialist Sr.  
Signature: *Larry Baker* Date: 6/4/2024  
email: larry.baker@apachecorp.com Telephone: 432-250-8384

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Larry Baker Title: Environmental Specialist Sr.  
Signature: Larry Baker Date: 6/04/2024  
email: larry.baker@apachecorp.com Telephone: 432-250-8384

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



DAVID FEATHER  
ENVIRONMENTAL SUPERVISOR  
DIRECT: (432) 818-1615  
E MAIL: DAVID.FEATHER@APACHECORP.COM

October 30, 2019

Mr. Bradford Billings  
State of New Mexico Oil Conservation Division  
1220 South St Francis Drive  
Santa Fe, NM 87505

RE: IRP-1357 NEDU 627

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to pit closure. Apache is respectfully submitting the closure report based on studies occurring in 2019 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-818-1615 or by e-mail at David.Feather@ApacheCorp.com.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Feather".

David Feather  
Environmental Supervisor  
Apache Corporation - Permian Basin Region

Attachment: Closure Report Dated October 25, 2019



**Bruce Baker**

**Northeast Drinkard Unit #627**

**Closure Report**

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**API NO. 30-025-37029**

**RP-1357**

**Pit Closure**

**U/L E, Section 14, Township 21S, Range 37E**

**Lea County, NM**

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**10/25/19**

**Prepared By:**

**Hungry Horse, LLC**

**4024 Plains Hwy**

**Lovington, NM 88260**



October 25, 2019

New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau – District I  
1625 N. French Dr.  
Hobbs, NM 88240-9273

**RE: TERMINATION REQUEST**

**Apache Corporation – Northeast Drinkard Unit #627 (NEDU #627)**  
**U/L E, Section 14, Township 21S, Range 37E**  
**API No. 30-025-37029**

To Whom it May Concern,

Apache Corporation has retained Hungry Horse, LLC to address the potential pit concerns at the site referenced above. Hungry Horse, LLC has prepared this Closure Report that demonstrates the drilling pit associated with the NEDU #627.

**Background and Previous Work**

Apache Corporation has submitted the initial C-144 for the proposed Pit Closure Plan for the NEDU #627 on November 30<sup>th</sup>, 2005. The plan was stated as follows:

- Pit will be closed using the trench bury procedure
- Excavate a trench adjacent to the drilling pit, line with a 12mil liner and place the contents of the drilling pit in the trench
- Cover the trenched area with a 20mil liner and 3' of clean soil
- Contour, level and seed
- Notify the OCD before starting and file sundry notice after closing of the pit.

The NMOCD approved the Pit Closure Plan on November 30<sup>th</sup>, 2005. On or before October 14<sup>th</sup>, 2005 Environmental Plus, Inc. began the transfer of the pit materials.

A total of six bottom hole and ten sidewalls samples were obtained. Below are the samples obtained for delineation purposes (Table I Sampling) on or before February of 2006.

Sample ID	Depth	Soil	Sample Date	Field Chloride	Lab BTEX	Lab TPH	Lab Chl
ENSW-5	5'	IN-SITU	2/14/2006	640	0	0	192
ESSW-5	5'	IN-SITU	2/14/2006	400	0	0	16
EESW-5	5'	IN-SITU	2/14/2006	4000	0	0	17195
SWSW-4	4'	IN-SITU	2/14/2006	4000	0	0	19594
WSSW-4	4'	IN-SITU	2/14/2006	640	0	0	272
WNSW-4	4'	IN-SITU	2/14/2006	960	0	<20	480
NWBH	14'	EXCVATED	2/14/2006	4000	0	<20	13996
NEBH	14'	EXCVATED	2/14/2006	4000	0	<20	2175

SEBH	14'	EXCVATED	2/14/2006	1600	0	<20	9757
SWBH	14'	EXCVATED	2/14/2006	4000	0	<20	688
WEST TRENCH-14	14'	EXCVATED	2/14/2006	4000	0	0	21993
WEST TRENCH-19	19'	IN-SITU	2/14/2006	4000	0	<20	8157
WEST TRENCH-24	24'	IN-SITU	2/14/2006	380	0	0	96
WEST TRENCH-29	29'	IN-SITU	2/14/2006	380	0	<20	144
EAST TRENCH-14	14'	EXCVATED	2/14/2006	2800	0	0	1727
EAST TRENCH-19	19'	IN-SITU	2/14/2006	1280	0	<20	912

On or before November 7<sup>th</sup>, of 2006 EPI obtained four sample of the fluid in the pit area and below you will find the data provided:

Sample ID	Date	NA	CA	Mg	K	Cond	TTL- Alk	Cl	SO	CO	HCO	pH (s.u)	TDS
W-18'	11/7/2006	40975	3206	972	465	183200	110	69978	2895	0	134	6.48	212000
C-22'	11/7/2006	41183	2806	729	305	126200	110	68979	2563	0	134	6.93	117360
SE-22'	11/7/2006	15233	1603	729	93	62700	130	27591	1201	0	159	6.94	51550
Chaparral Brine	11/7/2006	124790	1202	2430	1135	278400	110	195939	9273	0	134	6.61	333420

On or before November 22<sup>nd</sup> of 2006, EPI continued to delineate the pit area, data is found below and in the Table 2 form attached herein:

Sample ID	Depth	Soil	Sample Date	Field Chloride	Lab BTEX	Lab TPH	Lab Chl
NSW11-12'	12'	IN-SITU	11/22/2006	400	0	0	160
NSW12-12	12'	IN-SITU	11/22/2006	240	0	0	48
NSW13-6'	6'	IN-SITU	11/22/2006	560	0	0	800
WSW14-7'	7'	IN-SITU	11/22/2006	400	0	0	240
WSW15-6'	6'	IN-SITU	11/22/2006	480	0	0	640
WSW16-12'	12'	IN-SITU	11/22/2006	240	0	0	48
WSW17-11'	11'	IN-SITU	11/22/2006	240	0	0	64
WSW18-12'	12'	IN-SITU	11/22/2006	160	0	0	48
SSW19-6'	6'	IN-SITU	11/22/2006	400	0	0	240
SSW20-7'	7'	IN-SITU	11/22/2006	240	0	0	48
SSW21-6'	6'	IN-SITU	11/22/2006	240	0	0	32
SSW22-12'	12'	IN-SITU	11/22/2006	240	0	0	336
SSW23-6'	6'	IN-SITU	11/22/2006	240	0	0	64
SSW24-12'	12'	IN-SITU	11/22/2006	160	0	0	224
BH25-19'	19'	IN-SITU	11/22/2006	0	0	0	8317
BH26-19'	19'	IN-SITU	11/22/2006	0	0	0	2607
BH27-19'	19'	IN-SITU	11/22/2006	0	0	0	11676
BH28-19'	19'	IN-SITU	11/22/2006	0	0	0	13356
BH29-19'	19'	IN-SITU	11/22/2006	0	0	0	160

In February of 2007 Hungry Horse obtained a water sample from the pit area. Comparison of the November of 2006 to February of 2007 sample data shows a drastic decline in the minerals, salts, metals, cations or anions better known as TDS (Total Dissolved Solids). The confirmed lab analysis is below:

Sample ID	Date	NA	CA	Mg	K	Cond	TTL-Alk	Cl	SO	CO	HCO	pH (s.u)	TDS
Pit Water	2/27/2007	8373	2428	1755	67.5	53300	96	21393	1299	0	117	6.98	40592

In March of 2007 another sampling event occurred comparing the injection well fluid and fluid from the wellhead. The confirmed lab analysis for TDS is below.

Sample ID	Date	NA	CA	Mg	K	Cond	TTL-Alk	Cl	SO	CO	HCO	pH (s.u)	TDS
Inj. Well	3/16/2007	7276	2295	222	199	39000	372	13696	2939	0	454	7.94	29764
Wellhead	3/16/2007	9344	2462	484	220	48600	280	17794	3262	0	342	8.07	36048

On April 17<sup>th</sup> of 2007, continued sampling occurred comparing the East Trench at 22' bgs and on the SE Corner of the Pit. The lab confirmed the following analysis below:

Sample ID	Date	NA	CA	Mg	K	Cond	TTL-Alk	Cl	SO	CO	HCO	pH (s.u)	TDS
E. Trench 22'bgs	4/17/2007	7223	2794	1230	122	47200	98	18794	1286	0	117	7.04	36336
SE Corner of Pit	4/17/2007	1782	938	456	31.5	15210	60	5338	536	0	73	7.47	11210

Please also see the attached documentation that has been uploaded into the NMOCD Database, this information is attached accordingly.

#### Groundwater Information

According to the New Mexico Office of the State Engineer, the ground water closest to the site is 57' bgs. Below you will find the two wells showing ground water information for the site listed herein:

CP-01574-POD1: 547' from the site at 57'DGW

CP-01574-POD2: 563' from the site at 57'DGW

Hungry Horse used the depth of ground water found above as the basis of the Closure Criteria for Soils impacted by a release and is listed below for the new rule dated August 14<sup>th</sup>, 2018. No soil remediation will be taking place for this site, unless found required by the NMOCD. Please see the groundwater information provided below:



Closure for Soils Impacted by a Release			
Depth	Constituent	Method	Limit
51' to 100'	Chloride	EPA 300.00 or SM4500 CL B	10,000 mg/kg
	TPH (GRO, DRO, MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Soil Boring

Hungry Horse, LLC went back out to the site on June 24<sup>th</sup> of 2019 to begin the subsurface investigation to determine depth to ground water at this site. Six boreholes were drilled, which includes SB1 thru SB6 (see attached map). The depths for the above-mentioned boreholes ranged from 28' to 198'bgs. Each borehole contained an impervious clay barrier which was first encountered at depth from 12' to 22'bgs (see attached Soil Boring Logs). Below you will find the Soil Boring Data:

Soil Boring ID	Depth Bored	Soil/AVG	Boring Date	Clay Depths
SB#1	198'	Clay	7/8/2019	20-198'
SB#2	34'	Clay	7/8/2019	22-34'
SB#3	34'	Clay	7/9/2019	16-34'
SB#4	28'	Clay	7/12/2019	17-28'
SB#5	30'	Clay	8/8/2019	12-30'
SB#6	104'	Clay	8/8/2019	16-104'

SB #1 was drilled up-gradient northwest of the pit to a total depth of 198'bgs, containing 93' of an impervious clay barrier and was dry, no groundwater encountered. SB #6 was also drilled up-gradient E/NE of the pit to a total depth of 104'bgs, containing 84' of an impervious clay barrier and was dry, no groundwater encountered.

SB #2, SB #3, SB #4 and SB #5 were drilled downgradient in a south easterly direction (see attached Site Map for details). SB#2 (18'bgs) thru SB#5 (22'bgs) contained perched drilling fluids (see attached Soil Boring Logs).

On August 8<sup>th</sup> of 2019, Hungry Horse took a subsurface soil sample at the center of the pit known as SB #5 (Sample ID: MW5-32'bgs on lab analysis). No monitoring well was installed, COC (Chain of Custody was mislabeled). This sample was obtained at 32'bgs and was sent to Cardinal Laboratories (H902797) for confirmation. The confirmed lab analysis for SB #5 is as follows:

Sample ID	Depth	Soil	Sample Date	Lab BTEX	Lab Chl	Lab TPH
MW5 (SB#5)	32'	Clay	8/8/2019	<0.300	3400	<10

Natural phytoremediation is taking place at this site. Dense, healthy mesquite bushes populate the old pit area. These mesquites are 2' to 3' taller than the mesquites on the undisturbed surrounding pasture (see site photos).

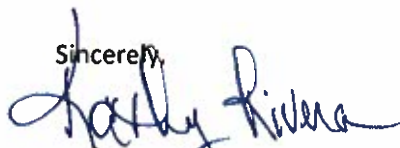
#### Conclusion

Hungry Horse, LLC would like to request closure for the drilling pit associated with the NEDU #627 for Apache Corporation. The historical and current information which is detailed herein, indicates that groundwater is not present upgradient on the West, Northwest or Northeast area surrounding the drilling pit. This data confirms that the NEDU #627 location is an exception to the recorded groundwater data in this area based on the New Mexico Office of the State Engineer Database. (Please also see the Site Maps at the end of this report, which shows the Open Pit, Closed Pit and Current site views).

Hungry Horse along with Apache Corporation believes that the recent soil boring activity indicates that there is no groundwater present at this site. The Lab Analysis dated August 19<sup>th</sup> of 2019 (Cardinal Lab Report H902797) indicates that the fluids obtained from the center of the pit which was encountered on August 8<sup>th</sup> of 2019 is definitely non-potable perched drilling fluids. SB #1 thru #6 all exhibit a uniform depositional sequence of impervious clay that ranges from a minimum of 12' to 105' in thickness.

Apache Corporation appreciates the opportunity to work with you on this project. Please contact Bruce Baker at 432-631-6982 if you have any questions or concerns.

Sincerely,



Kathy Rivera  
Environmental Office Manager  
Hungry Horse, LLC.  
4024 Plains Highway  
Lovington, NM 88260  
Cell (575) 441-4374  
[krivera@hungry-horse.com](mailto:krivera@hungry-horse.com)

#### Attachments:

- Pit Registration C-144 (1-03-2005)
- Initial C-144 (11-30-2005)
- NMOCD Historical Report
- Historical Sample Data
- Groundwater Information
- Soil Boring Map
- Soil Boring Data
- Current Pit Sampling Data
- Current Pit Lab Analysis
- Site Photos
- Open Pit Site Map
- Closed Pit Site Map
- Current View Site Map

Dac-30-2004 06:14pm From-APACHE CORP DRILLING DEPT

9184914969

T-522 P 002/007 F-600

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

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

Form C-144  
July 29, 2004

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Apache Corporation Telephone: (918) 491-4900 e-mail address: glenn.bone@apachecorp.com  
Address: Two Warren Place, Suite 1500, 6120 S. Yale, Tulsa Oklahoma 74136-4224  
Facility or well name: NEDU #627 API #: 30-025-37028 U/L or Qtr/Qtr E Sec 14 T 21S R 37E  
County: Lea Latitude 32°28'47.01"N Longitude 103°08'28.28"W NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

**Pit**

Type: Drilling ☒ Production ☐ Disposal ☐  
Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume  
7105 bbl

**Below-grade tank**

Volume:        bbl Type of fluid:       

Construction material:       

Double-walled, with leak detection? Yes ☐ If not, explain why not:       

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water)

Less than 50 feet	(20 points)
50 feet or more, but less than 100 feet - 70 ft	(10 points) 10 Pts
100 feet or more	( 0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes	(20 points)
No	( 0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet	(20 points)
200 feet or more, but less than 1000 feet	(10 points)
1000 feet or more	( 0 points)

Ranking Score (Total Points)	10 Points
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If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) indicate disposal location.

onsite ☐ offsite ☐ If offsite, name of facility       . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface        ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 12/30/2004

Printed Name/Title: Glenn Bone - Drilling Engineer

Signature       

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Date:

Printed Name/Title: IAN 03 2005

Signature       

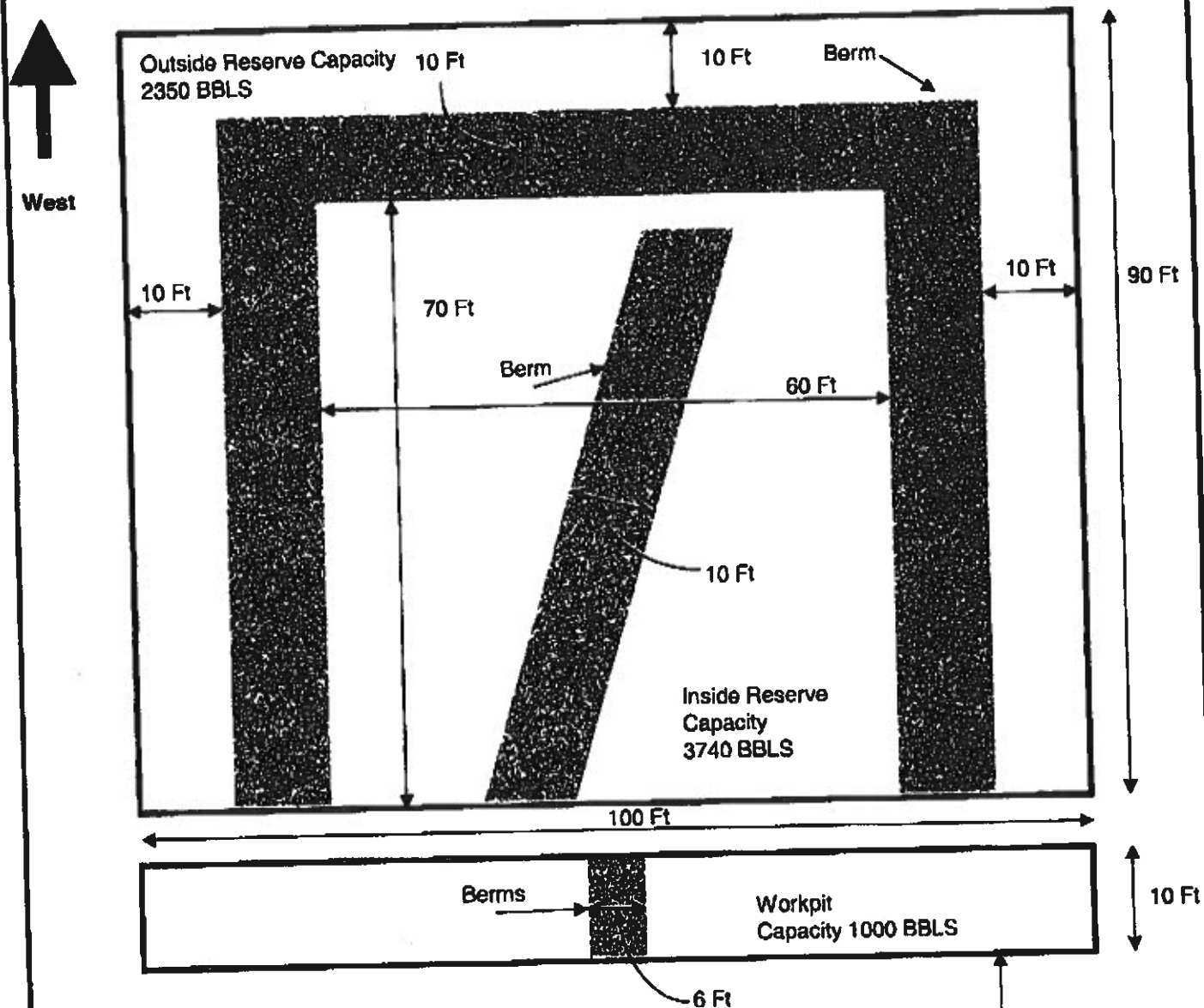
PETROLEUM ENGINEER

# NEDU #627 - Mud Pits

Sec. 14, T 21S, R 37 E  
Lea County, NM



Top Soil pushed back off of Reserve pit prior to digging pits



Outside Dimension of reserve Pit is 100 Ft x 90 Ft

Elevation of Pit Sides - 2 Ft Above Ground Level

Pits are dug 4 Ft below ground

Pit walls are sloped on a 3 to 1 ratio

Wellhead

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-144  
June 1, 2004

For drilling and production facilities, submit to appropriate NMOC District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <u>Apache Corp.</u> Telephone: <u>918.491.4900</u> e-mail address: <u>sean.oy@leaco.net</u>	
Address: <u>6120 S. Yale Suite 1500 Tulsa OK 74136-4224</u>	
Facility or well name: <u>NEDU #627</u> API #: <u>30.025.37029</u> U/L or Qtr/Qtr <u>E</u> Sec <u>14</u> T <u>21</u> R <u>37</u>	
County: <u>Lea</u> Latitude <u>30° 28' 47"</u> Longitude <u>103° 08' 28"</u> NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/>	
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input checked="" type="checkbox"/>	
<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Pit Volume <u>7100</u> bbl	<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) <u>70 ft.</u>	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points)
Ranking Score (Total Points) <u>10</u>	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Plan to trench bury onsite. Excavate trench adjacent to drilling pit, line with 12 mil plastic, put contents of drilling pit in trench, cover with 20 mil plastic and 3 ft of clean soil.  
Notify the OCD before starting and file sundry notice after closing.  
Will begin soon after approval.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☒.

Date: 11/30/05  
 Printed Name/Title Eddie W. Searcy Agent Signature \_\_\_\_\_

Your certification and NMOC approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: \_\_\_\_\_  
 Printed Name/Title GARY W. WINK / STAFF MGR Signature Gary W. Wink Date: 11/30/05



Page 15 of 119  
Received by OCD: 6/4/2024 3:15:30 PM  
Released to Imaging: 6/7/2024 2:55:58 PM

District I  
625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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  
Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.  
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

Type of action: ☐ Below grade tank registration  
☐ Permit of a pit or proposed alternative method  
**Pit #1 Closure Report** ☒ Closure of a pit, below-grade tank, or proposed alternative method  
☐ Modification to an existing permit/or registration  
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

**Instructions:** Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.  
Operator: Apache Corporation OGRID #: 873  
Address: 800 East Broadway Hobbs, NM 88240  
Facility or well name: NEDU #627 (Northeast Drinkard Unit #627)  
API Number: 30-025-37029 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr E Section 14 Township 21S Range 37E County: Lea County  
Center of Proposed Design: Latitude 32.47980 Longitude -103.14160 NAD83  
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.  
☒ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC  
Temporary: ☒ Drilling ☐ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☒ yes ☐ no  
☒ Lined ☐ Unlined Liner type: Thickness 12 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☐ String-Reinforced  
Liner Seams: ☒ Welded ☐ Factory ☐ Other \_\_\_\_\_ Volume: 7105 bbl Dimensions: L \_\_\_\_\_ x W \_\_\_\_\_ x D \_\_\_\_\_

3.  
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Tank Construction material: \_\_\_\_\_  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other \_\_\_\_\_  
Liner type: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

4.  
☐ **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

**Fencing:** Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet  
☐ Alternate. Please specify \_\_\_\_\_

**Netting:** Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

- ☐ Screen ☐ Netting ☐ Other \_\_\_\_\_
- ☐ Monthly inspections (If netting or screening is not physically feasible)

7.

**Signs:** Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.16.8 NMAC

8.

**Variances and Exceptions:**

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

**Please check a box if one or more of the following is requested, if not leave blank:**

- ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

**Siting Criteria (regarding permitting):** 19.15.17.10 NMAC

**Instructions:** The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

**General siting**

**Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.**

- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine. (Does not apply to below grade tanks)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area. (Does not apply to below grade tanks)

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain. (Does not apply to below grade tanks)

- FEMA map

☐ Yes ☐ No

**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300 feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No



Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

### **Temporary Pit Non-low chloride drilling fluid**

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

### **Permanent Pit or Multi-Well Fluid Management Pit**

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☒ No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

10.

#### **Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

11.

#### **Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

2. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13. **Proposed Closure:** 19.15.17.13 NMAC

**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☒ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit  
☐ Alternative
- Proposed Closure Method: ☐ Waste Excavation and Removal  
☐ Waste Removal (Closed-loop systems only)  
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)  
☐ In-place Burial ☐ On-site Trench Burial  
☒ Alternative Closure Method

14. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

- |   |  |
|---|--|
| Ground water is less than 25 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).<br>- Topographic map; Visual inspection (certification) of the proposed site                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 feet of a wetland.<br>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality: Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

16.

**On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Larry (Bruce) Baker Title: Sr. Environmental Tech

Signature: Larry Bruce Baker Date: 10-30-19

e-mail address: larry.baker@apachecorp.com Telephone: 432-631-6982

18.

**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

**OCD Representative Signature:** Jaclyn Burdine **Approval Date:** 07/06/2022

**Title:** Environmental Specialist-A **OCD Permit Number:** #1

19.

**Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☐ Closure Completion Date: \_\_\_\_\_

20.

**Closure Method:**

- ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
- ☒ If different from approved plan, please explain. Pit was closed in 2007

21.

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☐ Confirmation Sampling Analytical Results (if applicable)
- ☐ Waste Material Sampling Analytical Results (required for on-site closure)
- ☐ Disposal Facility Name and Permit Number
- ☐ Soil Backfilling and Cover Installation
- ☐ Re-vegetation Application Rates and Seeding Technique
- ☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: ☐ 1927 ☐ 1983

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Larry (Bruce) Baker Title: Sr. Environmental Tech

Signature: Larry Bruce Baker Date: 10-30-19

e-mail address: larry.baker@apachecorp.com Telephone: 432-631-6982

**New Mexico Office of the State Engineer  
Well Reports and Downloads**

Township: **21S** Range: **37E** Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

Owner Name: (First)  (Last)  ☐ Non-Domestic ☐ Domestic ☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

## AVERAGE DEPTH OF WATER REPORT 10/14/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	21S	37E	04				2	75	75	75
CP	21S	37E	06				1	73	73	73
CP	21S	37E	16				1	70	70	70
CP	21S	37E	22				1	53	53	53
CP	21S	37E	23				1	65	65	65
CP	21S	37E	23		924000	6600000	1	65	65	65
CP	21S	37E	27				1	76	76	76
CP	21S	37E	28				3	65	75	71
CP	21S	37E	33				1	100	100	100

Record Count: 12



**jerry brian**

**From:** "Swain, Harold" <Harold.Swain@usa.apachecorp.com>  
**To:** <jrbrian@verizon.net>  
**Sent:** Tuesday, March 13, 2007 6:29 AM  
**Attach:** Figure #4.pdf; Figure #5.pdf; Figure #6.pdf; Table 2 - Analytical Data (soil).xls; Table 3 - Analytical Data (water).xls  
**Subject:** FW: Apache Corporation - NEDU 627 Pit (EPI Ref. #24002)

-----Original Message-----

**From:** David Duncan [mailto:dduncan@envplus.net]  
**Sent:** Monday, March 12, 2007 2:31 PM  
**To:** Swain, Harold  
**Cc:** cmiller@envplus.net; jstegemoller@envplus.net  
**Subject:** Apache Corporation - NEDU 627 Pit (EPI Ref. #24002)

Mr. Swain:

On 3/9/06 (Friday) EPI received a phone call from Mr. Larry Johnson (NMOCD - Hobbs) concerning Field Analyses and Laboratory Analytical Data for the above referenced project. Although EPI is no longer in charge of the project, the information Mr. Johnson requested was put into tabular form and is being directed to your attention. Included for your review and information are Table #2 (Soil Field and Laboratory Analytical Data), Table #3 (Water Laboratory Analytical Data) and Figures #4-#6 (Soil Sampling Figures - hand drawn). Please give EPI directions as to whether Apache Corporation or EPI will relay this information to Mr. Johnson.

If you have any questions, concerns or need additional information, please contact me at (505) 394-3481 or via e-mail at [dduncan@envplus.net](mailto:dduncan@envplus.net).

Sincerely,

ENVIRONMENTAL PLUS, INC.

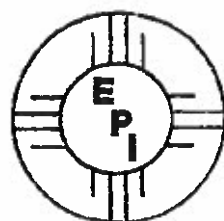
David P. Duncan  
Civil Engineer

Environmental Plus, Inc.  
P.O. Box 1558  
2100 Avenue 'O'  
Eunice, New Mexico 88231

(505) 394-3481  
(505) 394-2601 (facsimile)

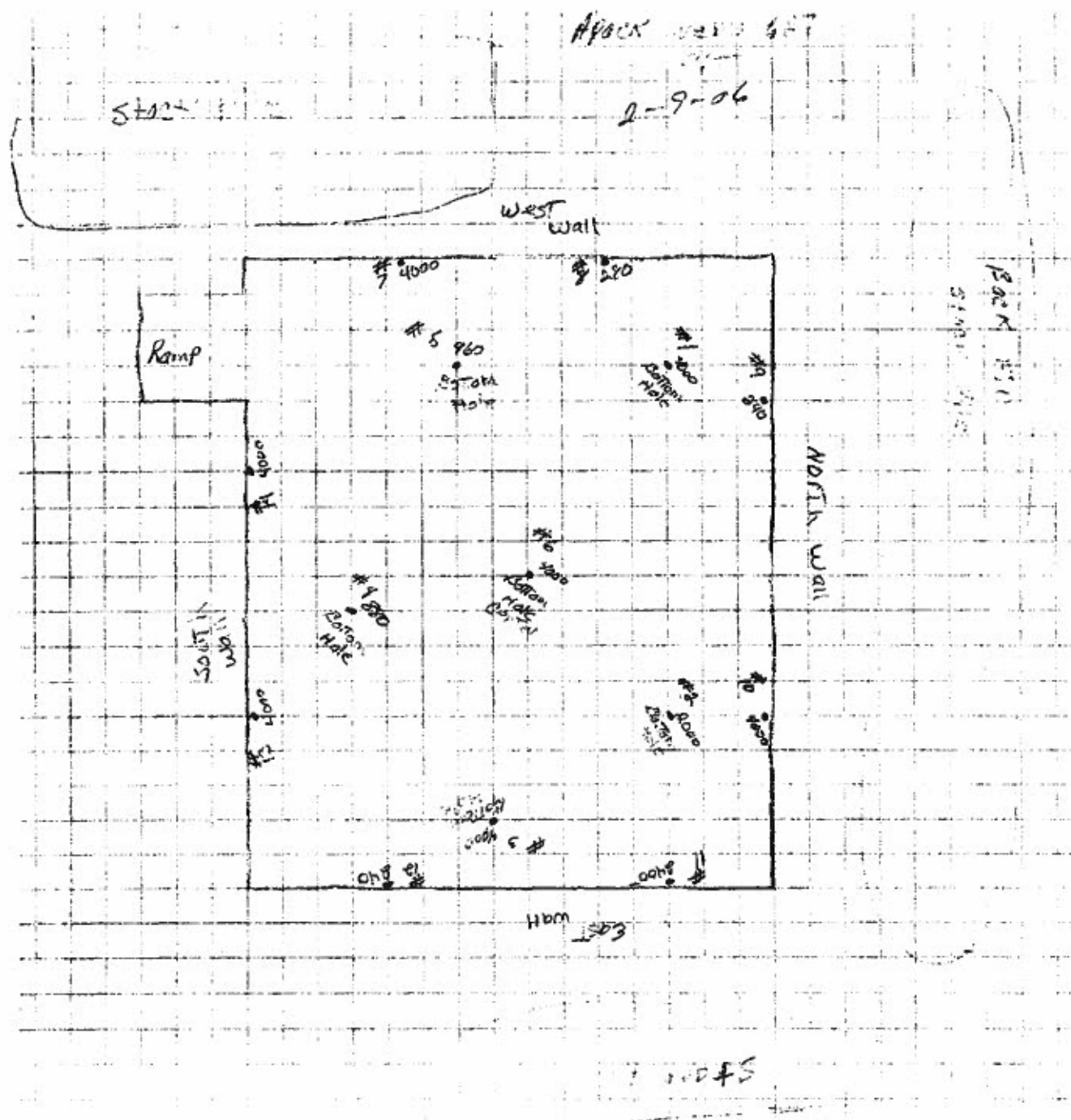
NEDU No. 627  
API  
~~30-025-34887~~  
30-025-370290000

RP# 1357



**ENVIRONMENTAL PLUS, INC.** *90795RD BAYZEE*  
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

P.O. BOX 1558 ... 2100 AVE. O ... EUNICE, NEW MEXICO 88231  
TELEPHONE 505-394-3481 ... FAX 505-394-2601

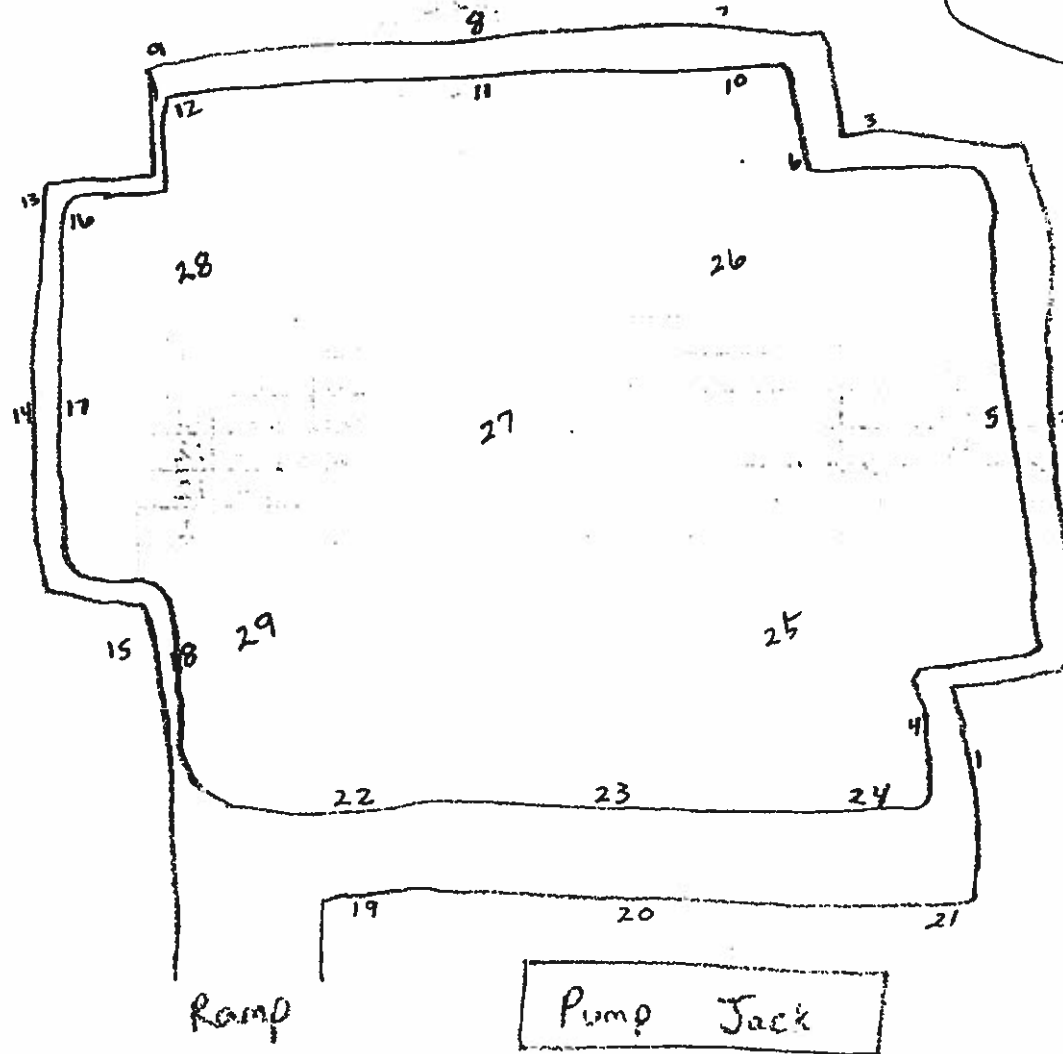




11-27-2006  
Apache - NEDU 627  
- 240002

N

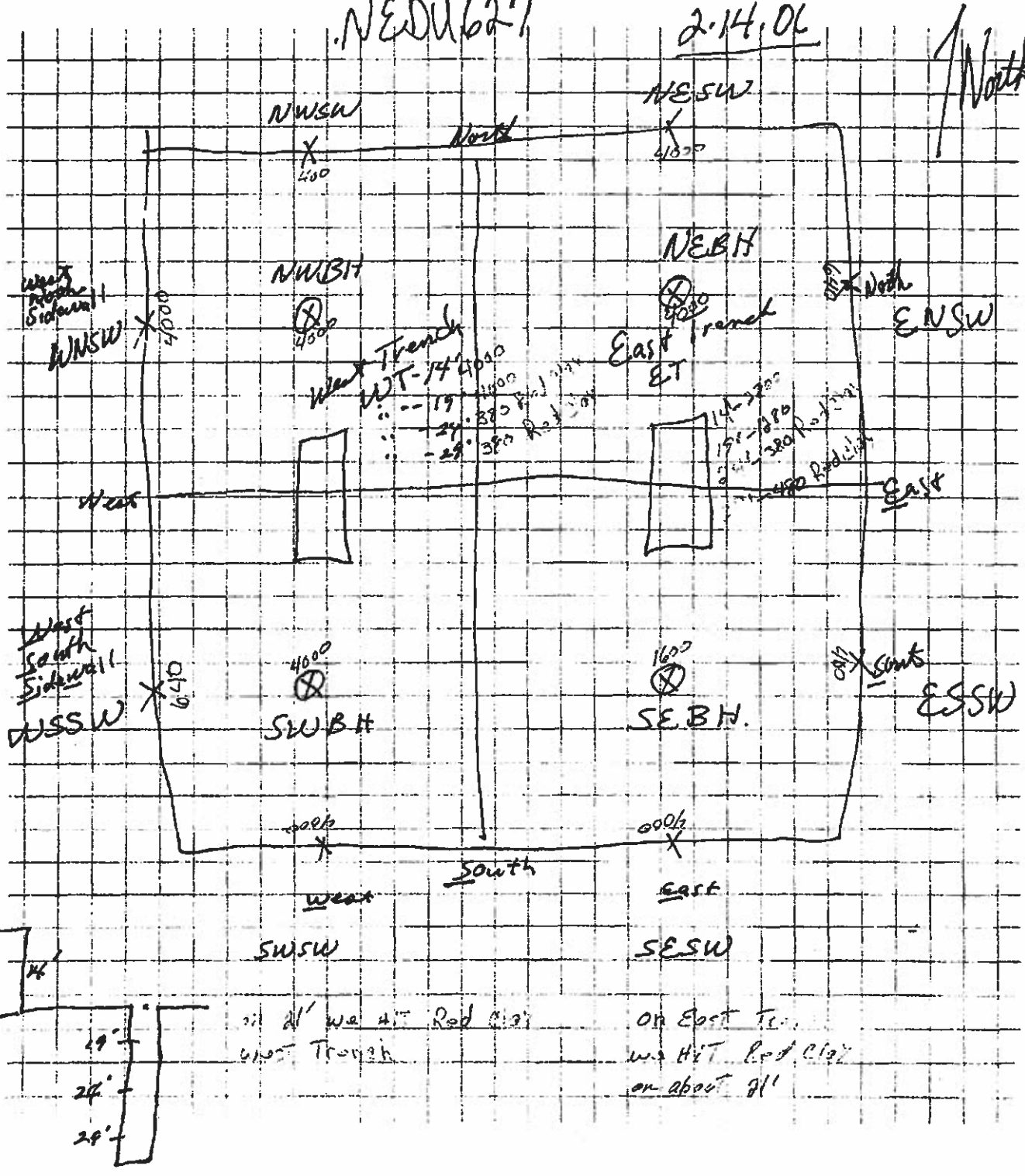
Stock Pile





**TELEPHONE 505.394.3481 ... FAX 505.394.2601**

2.14.06



**TABLE 2**  
**Summary of Water Sample Laboratory Analytical Results**  
**Apache Corporation**  
**NEDU 627 Pit (EPI Ref # 240002)**

Sample ID	Date	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (µ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)	Cl (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (S.U.)	TDS (mg/L)
W-16'	07-Nov-06	40,975	3,206	972	465	183,200	110	69,978	2,895	0	134	6.48	212,090
C-12'	07-Nov-06	41,183	2,806	729	305	126,200	110	68,979	2,363	0	134	6.93	117,360
SE-22'	07-Nov-06	15,233	1,603	729	93	62,700	130	27,591	1,201	0	159	6.94	51,550
Chapparral Brine	07-Nov-06	124,790	1,202	2,430	1,135	278,400	110	195,939	9,273	0.0	134.0	6.61	333,420
NM/QCC Remedial Thresholds		100		10				50			100		250

Bolded values are in excess of NM/QCC Remediation Threshold Goals

- = Not Analyzed

BH = Soil samples collected from the bottom of the excavation, SW = Soil samples collected from the side walls of the excavation (E=East, W=West, N=North and S=South)

**TABLE 1**  
**Summary of Soil Sample Field Analysis and Laboratory Analytical Results**  
**Apache Corporation**  
**NEDU 627 Pit (EPI Ref.# 240002)**

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analysis (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
BH-1	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
BH-2	--	Excavated	9-Feb-06	--	2,000	--	--	--	--	--	--	--	--	--
BH-3	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
BH-4	--	Excavated	9-Feb-06	--	880	--	--	--	--	--	--	--	--	--
BH-5	--	Excavated	9-Feb-06	--	960	--	--	--	--	--	--	--	--	--
BH-6 (cover)	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
WSW-7	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
WSW-8	--	Excavated	9-Feb-06	--	280	--	--	--	--	--	--	--	--	--
NSW-9	--	Excavated	9-Feb-06	--	240	--	--	--	--	--	--	--	--	--
NSW-10	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
BSW-11	--	Excavated	9-Feb-06	--	2,400	--	--	--	--	--	--	--	--	--
BSW-12	--	Excavated	9-Feb-06	--	240	--	--	--	--	--	--	--	--	--
SSW-13	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
SSW-14	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
NWSW-5	5	In situ	14-Feb-06	--	400	--	--	--	--	--	<10.0	<10.0	<20.0	64
NESW-5	5	In situ	14-Feb-06	--	4,000	--	--	--	--	--	<10.0	<10.0	<20.0	7,678

**TABLE 2**  
**Summary of Soil Sample Field Analyses and Laboratory Analytical Results**  
**Apache Corporation**  
**NEDU 627 Pit (EPI Ref.# 240002)**

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analysis (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C8-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-mC28 (mg/Kg)	Chloride (mg/Kg)
ENSW-5	5	In situ	14-Feb-06	--	640	--	--	--	--	--	--	--	--	192
ESSW-5	5	in-situ	14-Feb-06	--	400	--	--	--	--	--	--	--	--	16
SESW-5	5	In situ	14-Feb-06	--	4,000	--	--	--	--	--	--	--	--	17,195
SWSW-4	4	In situ	14-Feb-06	--	4,000	--	--	--	--	--	--	--	--	19,594
WSSW-4	4	in-situ	14-Feb-06	--	640	--	--	--	--	--	--	--	--	272
WNSW-4	4	In situ	14-Feb-06	--	960	--	--	--	--	--	<10.0	<10.0	<20.0	480
NWBH	14	Excavated	14-Feb-06	--	4,000	--	--	--	--	--	<10.0	<10.0	<20.0	13,996
NEBH	14	Excavated	14-Feb-06	--	4000	--	--	--	--	--	<10.0	<10.0	<20.0	2,175
SEBH	14	Excavated	14-Feb-06	--	1600	--	--	--	--	--	<10.0	<10.0	<20.0	9,757
SWBH	14	Excavated	14-Feb-06	--	4000	--	--	--	--	--	<10.0	<10.0	<20.0	688
West Trench-14	14	Excavated	14-Feb-06	--	4000	--	--	--	--	--	--	--	--	21,993
West Trench-19	19	In situ	14-Feb-06	--	4000	--	--	--	--	--	<10.0	<10.0	<20.0	8,157
West Trench-24	24	In situ	14-Feb-06	--	380	--	--	--	--	--	--	--	--	96
West Trench-29	29	In situ	14-Feb-06	--	380	--	--	--	--	--	<10.0	<10.0	<20.0	144
East Trench-14	14	Excavated	14-Feb-06	--	2800	--	--	--	--	--	--	--	--	1,727
East Trench-19	19	In situ	14-Feb-06	--	1280	--	--	--	--	--	<10.0	<10.0	<20.0	912

**TABLE 3**  
**Summary of Soil Sample Field Analysis and Laboratory Analytical Results**  
**Apache Corporation**  
**NEDU 627 Pit (EPI Ref.# 240002)**

Sample ID	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analysis (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GR0 (C6-C10) (mg/Kg)	DRO (>C10-C18) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
East Trench-24	24	In situ	14-Feb-06	--	380	--	--	--	--	--	--	--	--	96
East Trench-29	29	In situ	14-Feb-06	--	480	--	--	--	--	--	<10.0	<10.0	<30.0	288
NESW-5'	5	In situ	27-Feb-06	--	--	--	--	--	--	--	<50.0	<50.0	<100	48
NWSW-5'	5	In situ	27-Feb-06	--	--	--	--	--	--	--	<50.0	<50.0	<100	32
SWSW-6'	6	In situ	27-Feb-06	--	--	--	--	--	--	--	<50.0	<50.0	<100	96
SESW-6'	6	In situ	27-Feb-06	--	--	--	--	--	--	--	<50.0	<50.0	<100	32
ESW1-6'	6	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	80
ESW2-7'	7	In situ	11/22/06	--	320	--	--	--	--	--	--	--	--	160
ESW3-6'	6	In situ	22-Nov-06	--	160	--	--	--	--	--	--	--	--	48
ESW4-12'	12	In situ	22-Nov-06	--	320	--	--	--	--	--	--	--	--	160
ESW5-12'	12	In situ	22-Nov-06	--	640	--	--	--	--	--	--	--	--	704
ESW6-13'	13	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	32
NSW7-6'	6	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	32
NSW8-6'	6	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	16
NSW9-6'	6	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	32
NSW10-12'	12	In situ	22-Nov-06	--	320	--	--	--	--	--	--	--	--	96

**TABLE 2**  
**Summary of Soil Sample Field Analyses and Laboratory Analytical Results**  
**Apache Corporation**  
**NEDU 627 PH (EPI Ref# 240002)**

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analysis (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
NSW11-12'	12	In situ	22-Nov-06	--	400	--	--	--	--	--	--	--	--	160
NSW12-12'	12	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	48
NSW13-6'	6	In situ	22-Nov-06	--	560	--	--	--	--	--	--	--	--	800
WSW14-7'	7	In situ	22-Nov-06	--	400	--	--	--	--	--	--	--	--	240
WSW15-6'	6	In situ	22-Nov-06	--	480	--	--	--	--	--	--	--	--	640
WSW16-12'	12	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	48
WSW17-11'		In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	64
WSW18-12'	12	In situ	22-Nov-06	--	160	--	--	--	--	--	--	--	--	48
SSW19-6'	6	In situ	22-Nov-06	--	400	--	--	--	--	--	--	--	--	240
SSW20-7'	7	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	48
SSW21-6'	6	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	32
SSW22-12'	12	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	336
SSW23-6'	6	In situ	22-Nov-06	--	240	--	--	--	--	--	--	--	--	64
SSW24-12'	12	In situ	22-Nov-06	--	160	--	--	--	--	--	--	--	--	224
BH25-19'	19	In situ	22-Nov-06	--	--	--	--	--	--	--	--	--	--	8,317
BH26-19'	19	In situ	22-Nov-06	--	--	--	--	--	--	--	--	--	--	2,607



**TABLE 2**  
**Summary of Soil Sample Field Analyses and Laboratory Analytical Results**  
**Apache Corporation**  
**NEDU 427 Pit (EPI Ref # 240062)**

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analysis (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRX (O&C10) (mg/Kg)	GRQ (>C10-C28) (mg/Kg)	Total Hydrocarbons mC6-mC28 (mg/Kg)	Chloride (mg/Kg)
BH27-19'	19	In situ	22-Nov-06	--	--	--	--	--	--	--	--	--	--	11,676
BH28-19'	19	In situ	22-Nov-06	--	--	--	--	--	--	--	--	--	--	13,384
BH29-19'	19	In situ	22-Nov-06	--	--	--	--	--	--	--	--	--	--	160
NMOC Remedial Thresholds				100		10				50			100	250

Dotted values are in excess of NMOC Remediation Threshold Goals

-- = Not Analyzed

BH = Soil samples collected from the bottom of the excavation, SW = Soil samples collected from the side walls of the excavation (E=East, W=West, N=North and S=South)

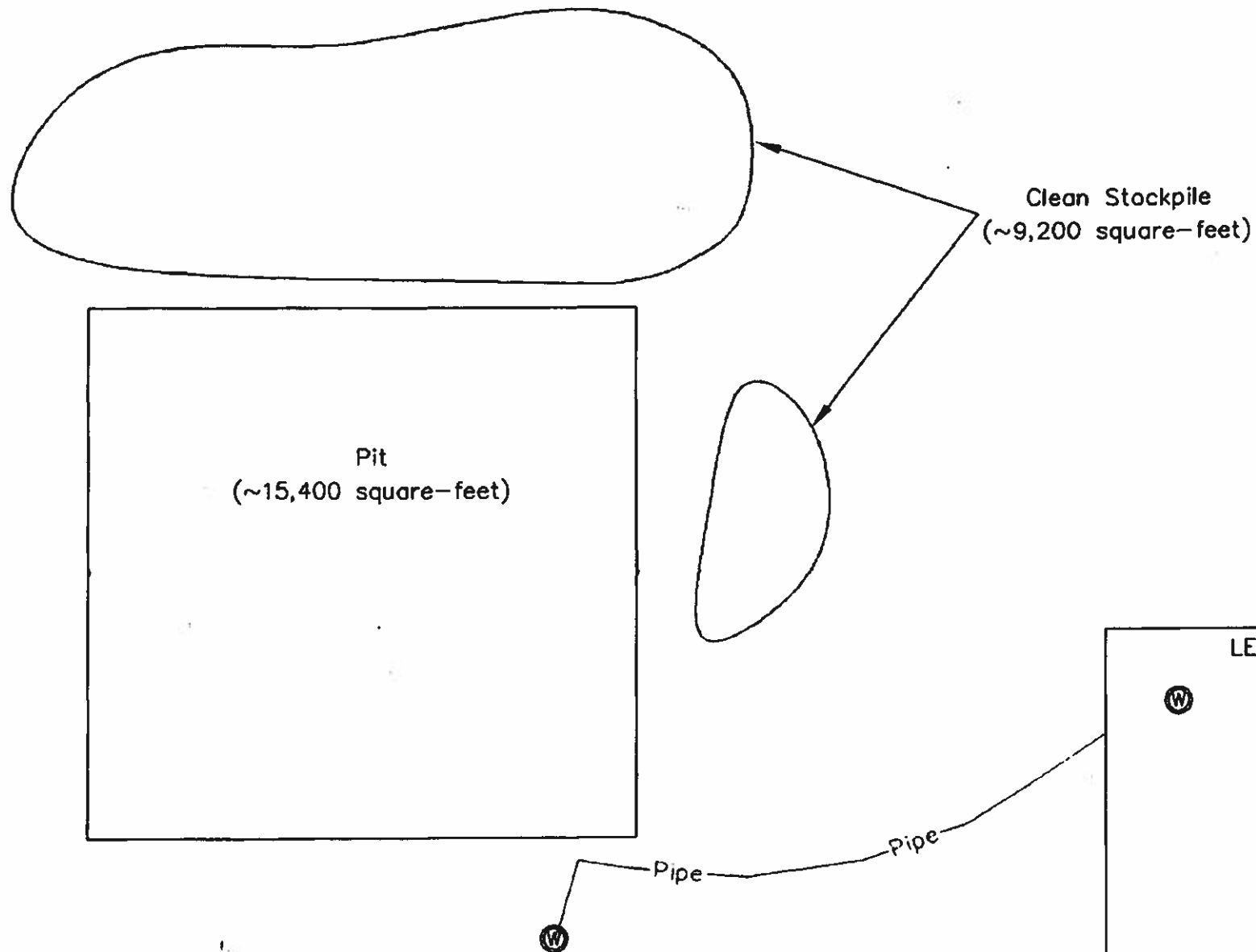
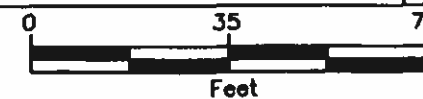


Figure 3  
Site Map  
Apache Corporation  
N.E.D.U. Pit #627

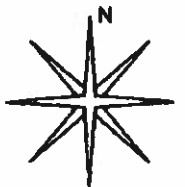
Lea County, New Mexico  
SW 1/4 of the NW 1/4, Sec. 14, T21S, R37E  
N 32° 28' 48.21" W 103° 08' 30.28"  
Elevation: 3,416 feet amsl

DWG By: Daniel Dominguez  
February 2006

REVISED:



SHEET  
1 of 1





# ARDINAL LABORATORIES

PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR  
HUNGRY HORSE ENVIRONMENTAL  
ATTN: JERRY BRIAN  
P.O. BOX 1058  
HOBBS, NM 88241  
FAX TO: (505) 391-4585

Receiving Date: 04/11/07  
Reporting Date: 04/20/07  
Project Owner: APACHE  
Project Name: NEDU 627  
Project Location: LEA CTY., NM

Sampling Date: 04/17/07  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: HM/AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
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ANALYSIS DATE:	04/19/07	04/19/07	04/19/07	04/19/07	04/18/07	04/19/07
H12474-1 E. TRENCH 22' BGS	7223	2794	1230	122	47200	98
H12474-2 SE CORNER/PIT	1782	938	456	31.5	15210	60
Quality Control	NR	45.2	54.1	1.93	1381	NR
True Value QC	NR	50.0	50.0	2.00	1413	NR
% Recovery	NR	80.4	108	96.5	97.7	NR
Relative Percent Difference	NR	5.8	3.6	3.7	1.1	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
---------------------------	---------------------------	---------------------------	----------------------------	--------------	---------------

ANALYSIS DATE:	04/18/07	04/19/07	04/19/07	04/19/07	04/18/07	04/18/07
H12474-1 E. TRENCH 22' BGS	18794	1286	0	117	7.04	36336
H12474-2 SE CORNER/PIT	5338	536	0	73.2	7.47	11210
Quality Control	490	23.9	NR	964	6.98	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	98	95.7	NR	96.4	99.4	NR
Relative Percent Difference	2.0	14	NR	12.0	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

*Don S. Morano*  
Chemist

04-20-07  
Date

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**101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603**

**(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020**

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 605-393-2476



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

ANALYTICAL RESULTS FOR  
HUNGRY HORSE  
ATTN: JERRY BRIAN  
P.O. BOX 1058  
HOBBS, NM 88241  
FAX TO: (505) 391-4585

Receiving Date: 03/16/07  
Reporting Date: 03/23/07  
Project Owner: APACHE  
Project Name: NEDU 627  
Project Location: LEA COUNTY, NM

Sampling Date: 03/16/07  
Sample Type: WATER  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity ( $\mu$ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
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ANALYSIS DATE:	03/23/07	03/23/07	03/23/07	03/23/07	03/20/07	03/23/07
H12345-1 INJECTION WELL	7276	2295	222	199	39000	372
H12345-2 WELL-HEAD	9344	2462	484	220	48600	280
Quality Control	NR	50.6	52.4	1.97	1378	NR
True Value QC	NR	50.0	50.0	2.00	1413	NR
% Recovery	NR	101	105	98.5	99.1	NR
Relative Percent Difference	NR	2.8	0.0	3.6	0.3	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
---------------------------	---------------------------	---------------------------	----------------------------	--------------	---------------

ANALYSIS DATE:	03/21/07	03/21/07	03/23/07	03/23/07	03/20/07	03/21/07
H12345-1 INJECTION WELL	13696	2939	0.0	454	7.94	29764
H12345-2 WELL-HEAD	17794	3262	0	342	8.07	36048
Quality Control	500	25.0	NR	854	6.94	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	100	NR	85.4	99.1	NR
Relative Percent Difference	0.0	4.9	NR	9.5	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

*[Signature]*  
Chemist

03-23-07  
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.



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



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

ANALYTICAL RESULTS FOR  
HUNGRY HORSE  
ATTN: JERRY BRIAN  
P.O. BOX 1058  
HOBBS, NM 88241  
FAX TO: (505) 391-4585

Receiving Date: 02/27/07  
Reporting Date: 02/28/07  
Project Owner: APACHE  
Project Name: NEDU #627  
Project Location: LEA CTY., NM

Sampling Date: 02/27/07  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		02/27/07	02/27/07	02/27/07	02/27/07	02/27/07	02/27/07
H12252-1	PIT WATER	8373	2428	1755	67.5	53300	96
Quality Control		NR	53.2	49.2	1.75	1380	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	106	98.4	87.5	97.7	NR
Relative Percent Difference		NR	0.0	4.8	11.0	0.2	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	02/27/07	02/27/07	02/27/07	02/27/07	02/27/07	02/28/07
H12252-1	21393	1299	0	117	6.98	40592
Quality Control	490	28.2	NR	903	6.91	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	98	113	NR	90.3	98.7	NR
Relative Percent Difference	0.0	18	NR	1.3	0.0	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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*Jose S. Moreno*  
\_\_\_\_\_  
Chemist

*02-28-07*  
\_\_\_\_\_  
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. Cardinal shall 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.





**Delivered By: (Circle One)**

\_\_\_\_\_

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# ARDINAL LABORATORIES

PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR  
HUNGRY HORSE  
ATTN: JERRY BRIAN  
P.O. BOX 1058  
HOBBS, NM 88241  
FAX TO: (505)-391-4585

*Source*

Receiving Date: 11/28/06  
Reporting Date: 12/07/06  
Project Owner: APACHE  
Project Name: NM STATE "S" #42  
Project Location: UNIT 0, SEC. 34 T21S-R37E

Sampling Date: 11/28/06  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: HM  
Analyzed By: HM/AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
------------	-----------	--------------	--------------	--------------	-------------	-------------------------	--

ANALYSIS DATE:	12/06/06	12/06/06	12/06/06	12/06/06	11/29/06	11/30/06
H11850-1 P&S BRINE SALES	124714	2400	2570	1120	74200	288
Quality Control	NR	48.1	48.6	2.77	1304	NR
True Value QC	NR	50.0	50.0	3.00	1413	NR
% Recovery	NR	96	97	92.0	92	NR
Relative Percent Difference	NR	0.0	0.0	8.3	1.0	NR
METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1	

	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
--	---------------------------	---------------------------	---------------------------	----------------------------	--------------	---------------

ANALYSIS DATE:	12/04/06	12/05/06	11/30/06	11/30/06	11/29/06	11/29/2006
H11850-1 P&S BRINE SALES	201000	5510	0	351	6.62	325588
Quality Control	510	17.9	NR	952	7.00	NR
True Value QC	500	20.0	NR	1000	7.00	NR
% Recovery	102.0	90	NR	95.2	100	NR
Relative Percent Difference	6.1	12	NR	3.1	0	NR
METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

*[Signature]*  
Chemist

*12-07-06*  
Date

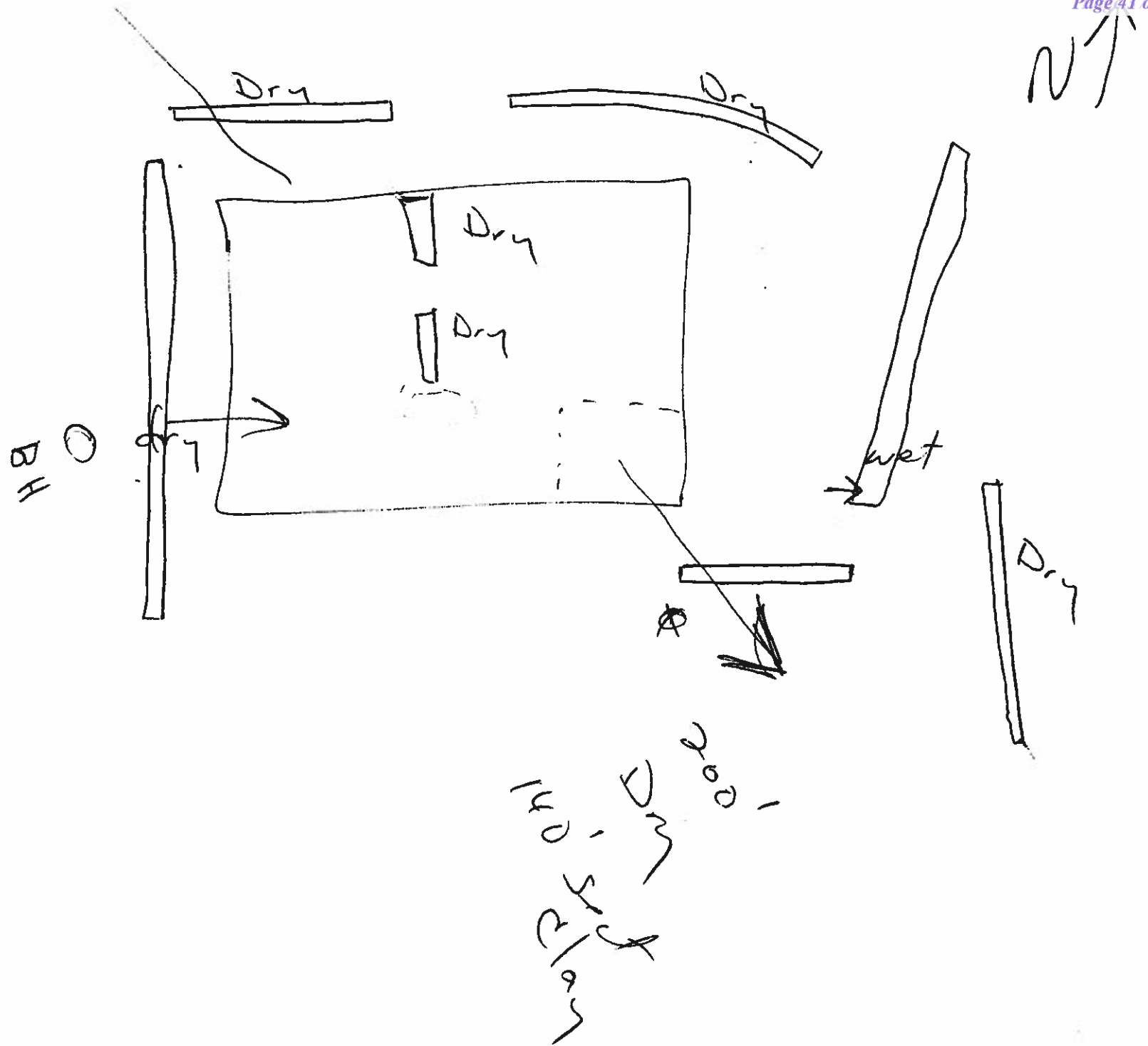
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## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page \_\_\_\_ of \_\_\_\_

[illegible]

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Apache Corporation  
 NEDU #627  
 Delineation Sampling of Pit 2-2006

Sample ID	Depth	Soil	Sample Date	Field Chlor	Lab BTEX	Lab TPH	Lab Chl
ENSW-5	5'	IN-SITU	2/14/2006	640	0	0	192
ESSW-5	5'	IN-SITU	2/14/2006	400	0	0	16
EESW-5	5'	IN-SITU	2/14/2006	4000	0	0	17195
SWSW-4	4'	IN-SITU	2/14/2006	4000	0	0	19594
WSSW-4	4'	IN-SITU	2/14/2006	640	0	0	272
WNSW-4	4'	IN-SITU	2/14/2006	960	0	<20	480
NWBH	14'	EXCVATED	2/14/2006	4000	0	<20	13996
NEBH	14'	EXCVATED	2/14/2006	4000	0	<20	2175
SEBH	14'	EXCVATED	2/14/2006	1600	0	<20	9757
SWBH	14'	EXCVATED	2/14/2006	4000	0	<20	688
WEST TRENCH-14	14'	EXCVATED	2/14/2006	4000	0	0	21993
WEST TRENCH-19	19'	IN-SITU	2/14/2006	4000	0	<20	8157
WEST TRENCH-24	24'	IN-SITU	2/14/2006	380	0	0	96
WEST TRENCH-29	29'	IN-SITU	2/14/2006	380	0	<20	144
EAST TRENCH-14	14'	EXCVATED	2/14/2006	2800	0	0	1727
EAST TRENCH-19	19'	IN-SITU	2/14/2006	1280	0	<20	912

### Pit Water Sampling 11-7-2006

[illegible]

Apache Corporation  
NEDU #627  
Pit Sampling 11/22/2006

Sample ID	Depth	Soil	Sample Date	Field Chlor	Lab BTEX	Lab TPH	Lab Chl
NSW11-12'	12'	IN-SITU	11/22/2006	400	0	0	160
NSW12-12'	12'	IN-SITU	11/22/2006	240	0	0	48
NSW13-6'	6'	IN-SITU	11/22/2006	560	0	0	800
WSW14-7'	7'	IN-SITU	11/22/2006	400	0	0	240
WSW15-6'	6'	IN-SITU	11/22/2006	480	0	0	640
WSW16-12'	12'	IN-SITU	11/22/2006	240	0	0	48
WSW17-11'	11'	IN-SITU	11/22/2006	240	0	0	64
WSW18-12'	12'	IN-SITU	11/22/2006	160	0	0	48
SSW19-6'	6'	IN-SITU	11/22/2006	400	0	0	240
SSW20-7'	7'	IN-SITU	11/22/2006	240	0	0	48
SSW21-6'	6'	IN-SITU	11/22/2006	240	0	0	32
SSW22-12'	12'	IN-SITU	11/22/2006	240	0	0	336
SSW23-6'	6'	IN-SITU	11/22/2006	240	0	0	64
SSW24-12'	12'	IN-SITU	11/22/2006	160	0	0	224
BH25-19'	19'	IN-SITU	11/22/2006	0	0	0	8317
BH26-19'	19'	IN-SITU	11/22/2006	0	0	0	2607
BH27-19'	19'	IN-SITU	11/22/2006	0	0	0	11676
BH28-19'	19'	IN-SITU	11/22/2006	0	0	0	13356
BH29-19'	19'	IN-SITU	11/22/2006	0	0	0	160



### Pit Closure Sampling

MG/L

[illegible]

[illegible]

## Pit Sampling 4/17/07

[illegible]



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW#### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has been  
replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 01185.POD1</a>		CP	LE	1	3	14	21S	37E		674598	3594689	452	70		
<a href="#">CP 01185.POD2</a>		CP	LE	1	3	14	21S	37E		674623	3594674	466	70		
<a href="#">CP 01110.POD1</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494	70		
<a href="#">CP 01110.POD2</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494	70		
<a href="#">CP 01110.POD3</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494	70		
<a href="#">CP 01110.POD4</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494	20		
<a href="#">CP 01110.POD5</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494	20		
<a href="#">CP 01185.POD3</a>		CP	LE	1	3	14	21S	37E		674592	3594620	522	70		
<a href="#">CP 01185.POD4</a>		CP	LE	1	3	14	21S	37E		674633	3594610	530	70		
<a href="#">CP 01574.POD1</a>		CP	LE	2	4	4	15	21S	37E	674559	3594598	547	68	57	11
<a href="#">CP 01574.POD2</a>		CP	LE	1	3	3	14	21S	37E	674666	3594578	563	68	57	11

Average Depth to Water: 57 feet

Minimum Depth: 57 feet

Maximum Depth: 57 feet

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 674628.63

Northing (Y): 3595141

Radius: 1000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

8/22/19 1:02 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01574 POD1	2	4	4	15	21S	37E	674559	3594598

<b>Driller License:</b>	1456	<b>Driller Company:</b>	WHITE DRILLING COMPANY	
<b>Driller Name:</b>	JOHN W WHITE			
<b>Drill Start Date:</b>	12/14/2015	<b>Drill Finish Date:</b>	12/15/2015	<b>Plug Date:</b>
<b>Log File Date:</b>	12/30/2015	<b>PCW Rcv Date:</b>		<b>Source:</b> Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>
<b>Casing Size:</b>	2.00	<b>Depth Well:</b>	68 feet	<b>Depth Water:</b> 57 feet

Water Bearing Stratifications:	Top	Bottom	Description
	53	63	Sandstone/Gravel/Conglomerate
	63	66	Sandstone/Gravel/Conglomerate
	66	68	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	52	67

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8/22/19 1:06 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01574 POD2	1	3	3	14	21S	37E	674666	3594578

<b>Driller License:</b>	1456	<b>Driller Company:</b>	WHITE DRILLING COMPANY	
<b>Driller Name:</b>	JOHN W WHITE			
<b>Drill Start Date:</b>	12/14/2015	<b>Drill Finish Date:</b>	12/15/2015	<b>Plug Date:</b>
<b>Log File Date:</b>	12/30/2015	<b>PCW Rcv Date:</b>		<b>Source:</b> Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>
<b>Casing Size:</b>	2.00	<b>Depth Well:</b>	68 feet	<b>Depth Water:</b> 57 feet

Water Bearing Stratifications:	Top	Bottom	Description
	55	66	Sandstone/Gravel/Conglomerate
	66	68	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	52	67

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/22/19 1:07 PM POINT OF DIVERSION SUMMARY





## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Water
																Column	
<a href="#">CP 01185 POD1</a>		CP	LE	1	3	14	21S	37E		674598	3594689	452		70			
<a href="#">CP 01185 POD2</a>		CP	LE	1	3	14	21S	37E		674623	3594674	466		70			
<a href="#">CP 01110 POD1</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494		70			
<a href="#">CP 01110 POD2</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494		70			
<a href="#">CP 01110 POD3</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494		70			
<a href="#">CP 01110 POD4</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494		20			
<a href="#">CP 01110 POD5</a>		CP	LE	1	3	14	21S	37E		674586	3594648	494		20			
<a href="#">CP 01185 POD3</a>		CP	LE	1	3	14	21S	37E		674592	3594620	522		70			
<a href="#">CP 01185 POD4</a>		CP	LE	1	3	14	21S	37E		674633	3594610	530		70			
<a href="#">CP 01574 POD1</a>		CP	LE	2	4	4	15	21S	37E	674559	3594598	547		68	57	11	
<a href="#">CP 01574 POD2</a>		CP	LE	1	3	3	14	21S	37E	674666	3594578	563		68	57	11	
<a href="#">CP 00235 POD3</a>		CP	LE	1	1	1	23	21S	37E	674681	3594137*	1005		90	61	29	
<a href="#">CP 00235 POD6</a>		CP	LE	2	1	1	23	21S	37E	674881	3594137*	1035		85	65	20	
<a href="#">CP 00235 POD2</a>		CP	LE	1	2	1	23	21S	37E	675083	3594144*	1095		96	65	31	
<a href="#">CP 00235 POD1</a>		CP	LE	2	2	1	23	21S	37E	675283	3594144*	1192		81			
<a href="#">CP 00235 POD7</a>		CP	LE	3	1	1	23	21S	37E	674681	3593937*	1205		85	65	20	
<a href="#">CP 00239 POD1</a>		CP	LE	1	1	2	23	21S	37E	675485	3594152*	1308		89	61	28	
<a href="#">CP 00240 POD1</a>		CP	LE	4	2	1	23	21S	37E	675283	3593944*	1364					
<a href="#">CP 00241 POD1</a>		CP	LE	4	2	1	23	21S	37E	675283	3593944*	1364		79			
<a href="#">CP 01575 POD2</a>		CP	LE	2	2	1	22	21S	37E	673615	3594181	1395		35	35	0	
<a href="#">CP 01141 POD4</a>		CP	LE				15	21S	37E	673556	3594239	1401		45			
<a href="#">CP 01141 POD2</a>		CP	LE				15	21S	37E	673543	3594250	1404		40			
<a href="#">CP 00235 POD4</a>		CP	LE	1	3	1	23	21S	37E	674688	3593735*	1407		100	80	20	
<a href="#">CP 01141 POD3</a>		CP	LE				15	21S	37E	673520	3594272	1408		40			
<a href="#">CP 01575 POD1</a>		CP	LE	1	2	1	22	21S	37E	673544	3594204	1432		40	35	5	
<a href="#">CP 00729 POD1</a>		CP	LE	4	1	3	15	21S	37E	673259	3594711*	1435		8015			
<a href="#">CP 00235 POD8</a>		CP	LE	3	1	2	23	21S	37E	675485	3593952*	1465		94	58	36	
<a href="#">CP 00236 POD1</a>		CP	LE	3	1	2	23	21S	37E	675485	3593952*	1465		83			
<a href="#">CP 00235 POD5</a>		CP	LE	1	4	1	23	21S	37E	675090	3593742*	1473		90	70	20	
<a href="#">CP 00731 POD1</a>		CP	LE	2	1	22	21S	37E		673577	3594015*	1540		8130			

<a href="#">CP 00562</a>	CP	LE	1	2	2	23	21S	37E	675887	3594159*		1596	136	65	71
<a href="#">CP 00235 POD10</a>	CP	LE	1	3	2	23	21S	37E	675492	3593749*		1638	92	60	32
<a href="#">CP 00235 POD11</a>	CP	LE	1	3	2	23	21S	37E	675492	3593749*		1638	97	60	37
<a href="#">CP 00237 POD1</a>	CP	LE	1	3	2	23	21S	37E	675492	3593749*		1638	84		
<a href="#">CP 00235 POD9</a>	CP	LE	3	4	1	23	21S	37E	675090	3593542*		1664	94	58	36
<a href="#">CP 00700</a>	CP	LE			2	23	21S	37E	675794	3593851*		1738	75	65	10
<a href="#">CP 00238 POD1</a>	CP	LE	3	3	2	23	21S	37E	675492	3593549*		1811	81		
<a href="#">CP 00732 POD1</a>	CP	LE		4	1	22	21S	37E	673584	3593613*		1851	6633		
<a href="#">CP 00134 POD1</a>	CP	LE	1	1	1	24	21S	37E	676289	3594166*		1925	85		
<a href="#">CP 00554</a>	CP	LE		2	2	16	21S	37E	672744	3595610*		1942	80	70	10
<a href="#">CP 00252 POD1</a>	CP	LE	4	2	4	22	21S	37E	674493	3593125*		2020	106	78	28
<a href="#">CP 00286 POD1</a>	CP	LE	2	1	2	10	21S	37E	674019	3597338*		2279	70		
<a href="#">CP 00251 POD1</a>	CP	LE	2	3	4	22	21S	37E	674099	3592915*		2288	103		
<a href="#">CP 00137 POD1</a>	CP	LE	2	2	1	13	21S	37E	676862	3595783*		2323	65		
<a href="#">CP 00881</a>	CP	LE		4	4	22	21S	37E	674402	3592824*		2328	95	53	42
<a href="#">CP 01222 POD3</a>	CP	LE	2	4	4	23	21S	37E	676036	3592871		2670	60	48	12
<a href="#">CP 00017 POD1</a>	CP	LE	2	1	2	27	21S	37E	674106	3592513*		2679	101		
<a href="#">CP 01741 POD1</a>	CP	LE	1	3	4	03	21S	37E	673895	3597759		2718	45		
<a href="#">CP 00733 POD1</a>	CP	LE		3	3	22	21S	37E	673196	3592801*		2743	7864		
<a href="#">CP 01636 POD3</a>	CP	LE	2	2	1	27	21S	37E	673782	3592501		2772	96		
<a href="#">CP 00285 POD1</a>	CP	LE	3	1	2	27	21S	37E	673906	3592313*		2918	80		
<a href="#">CP 00249 POD1</a>	CP	LE	2	3	2	27	21S	37E	674113	3592111*		3073	102		
<a href="#">CP 00250 POD1</a>	CP	LE	2	3	2	27	21S	37E	674113	3592111*		3073	101		
<a href="#">CP 00293 POD1</a>	CP	LE	2	4	1	27	21S	37E	673711	3592104*		3172	80		
<a href="#">CP 01274 POD1</a>	CP	LE		2	1	26	21S	37E	674992	3591934		3226	60		
<a href="#">CP 01274 POD2</a>	CP	LE		2	1	26	21S	37E	674992	3591934		3226	60		
<a href="#">CP 00253 POD1</a>	CP	LE	3	4	2	27	21S	37E	674315	3591918*		3238	101		
<a href="#">CP 00711</a>	CP	LE	4	2	2	28	21S	37E	672900	3592291*		3333	100	65	35
<a href="#">CP 00294 POD1</a>	CP	LE	1	3	1	27	21S	37E	673110	3592096*		3402			
<a href="#">CP 00736</a>	CP	LE		3	1	27	21S	37E	673211	3591997*		3448	120	76	44
<a href="#">CP 00552</a>	CP	LE		2	4	04	21S	37E	672700	3598022*		3466	90	75	15
<a href="#">CP 00553</a>	CP	LE		2	4	04	21S	37E	672700	3598022*		3466	90	75	15
<a href="#">CP 01004 POD1</a>	CP	LE	4	2	4	27	21S	37E	674616	3591478		3662	70	41	29
<a href="#">CP 00242 POD1</a>	CP	LE	3	4	2	28	21S	37E	672708	3591889*		3776			
<a href="#">CP 01636 POD2</a>	CP	LE	2	3	2	28	21S	37E	672430	3592065		3780	108		
<a href="#">CP 01096 POD2</a>	CP	LE	2	2	4	28	21S	37E	672976	3591731		3788	98	48	50
<a href="#">CP 00220 POD1</a>	CP	LE	1	1	3	25	21S	37E	676332	3591753*		3792	75		
<a href="#">CP 01001 POD1</a>	CP	LE	2	3	4	27	21S	37E	674108	3591371		3805	72	40	32
<a href="#">CP 01095 POD2</a>	CP	LE	2	2	4	28	21S	37E	672876	3591714		3848	109	48	61

<a href="#">CP 01095 POD1</a>		CP	LE	2	2	4	28	21S	37E	672859	3591714		3856	108	48	60
<a href="#">CP 01096 POD1</a>		CP	LE	2	2	4	28	21S	37E	672861	3591708		3861	108	48	60
<a href="#">CP 01003 POD1</a>		CP	LE	1	3	3	26	21S	37E	674669	3591279		3862	79	43	36
<a href="#">CP 01002 POD1</a>		CP	LE	3	4	4	27	21S	37E	674258	3591182		3975	75	39	36
<a href="#">CP 00197</a>	O	CP	LE	1	4	1	01	21S	37E	676611	3598599*		3985	85		
<a href="#">CP 00197 POD1</a>		CP	LE	1	4	1	01	21S	37E	676611	3598599*		3985	85		
<a href="#">CP 00735</a>		CP	LE		2	4	28	21S	37E	672816	3591588*		3988	105		
<a href="#">CP 01540 POD1</a>		CP	LE	1	1	1	35	21S	37E	674676	3590844		4296	51	36	15
<a href="#">CP 01222 POD1</a>		CP	LE	2	2	2	35	21S	37E	676081	3591023		4366	58	48	10
<a href="#">CP 01222 POD2</a>		CP	LE	2	2	2	35	21S	37E	676071	3591014		4371	60	48	12
<a href="#">CP 01222 POD4</a>		CP	LE	2	2	2	35	21S	37E	676102	3591017		4378	59	44	15
<a href="#">CP 00966 POD1</a>		CP	LE	1	3	4	28	21S	37E	672306	3591367		4431	154		
<a href="#">CP 00965 POD1</a>	R	CP	LE	1	3	4	28	21S	37E	672333	3591346		4435	123	60	63
<a href="#">CP 00965 POD2</a>		CP	LE	1	3	4	28	21S	37E	672273	3591336		4474	135		
<a href="#">CP 00287 POD1</a>		CP	LE	3	1	2	35	21S	37E	675542	3590734*		4500	75		
<a href="#">CP 00138 POD1</a>		CP	LE	3	2	2	35	21S	37E	675944	3590741*		4592	70		
<a href="#">CP 00749</a>		CP	LE	2	4	3	28	21S	37E	672118	3591271*		4613	123	75	48
<a href="#">CP 01077 POD1</a>		CP	LE	1	2	2	33	21S	37E	672710	3590940		4618	80	45	35
<a href="#">CP 01019 POD1</a>		CP	LE	3	3	1	30	21S	38E	677929	3591884		4636	150		
<a href="#">CP 00322</a>		CP	LE			3	28	21S	37E	671818	3591366*		4706	138	73	65
<a href="#">CP 00895</a>		CP	LE		1	1	20	21S	37E	669957	3593956*		4819	163		
<a href="#">CP 00513 POD1</a>		CP	LE	3	1	3	28	21S	37E	671508	3591467*		4820	5000	4374	626
<a href="#">CP 01026 POD1</a>		CP	LE	1	1	3	17	21S	37E	669809	3594958		4822	167	95	72
<a href="#">CP 00139 POD1</a>		CP	LE	2	4	2	19	21S	38E	679312	3593818*		4866	75		
<a href="#">CP 01301 POD1</a>		CP	LE	3	4	3	28	21S	37E	671871	3591110		4883	130	35	95
<a href="#">L 13546 POD1</a>		L	LE	4	4	3	34	20S	38E	675011	3600037		4910	88		
<a href="#">CP 00943 POD1</a>		CP	LE	1	3	1	34	21S	37E	673166	3590405		4956	142		
<a href="#">CC 01999 POD1</a>		CU	CU	3	3	2	29	03N	36E	670385	3592502		4997	415	372	43

Average Depth to Water: 160 feet

Minimum Depth: 35 feet

Maximum Depth: 4374 feet

Record Count: 97

**UTMNA83 Radius Search (in meters):**

Easting (X): 674628.63

Northing (Y): 3595141

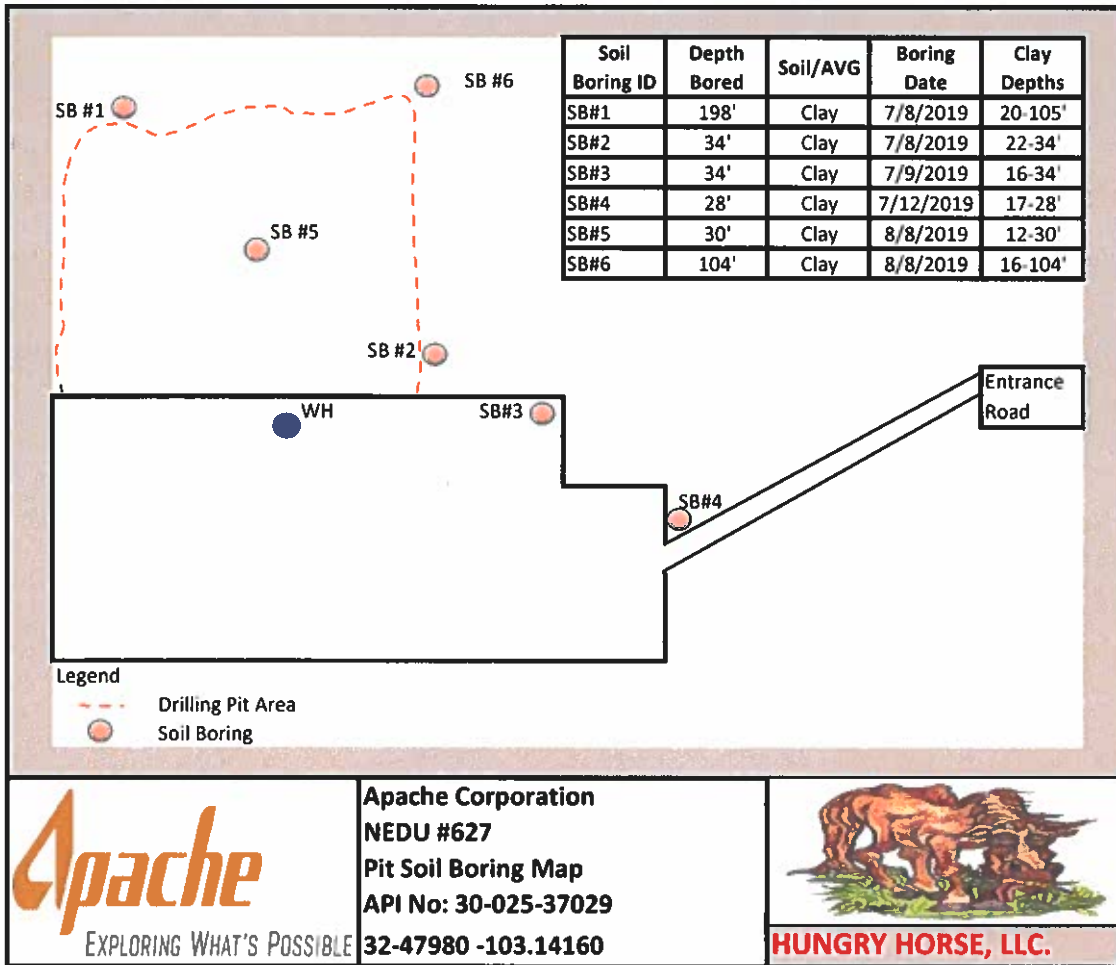
Radius: 5000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/22/19 1:13 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Apache Corporation  
NEDU #627  
Soil Boring Data 8/2019

Soil Boring ID	Depth Bored	Soil/AVG	Boring Date	Clay Depths
SB#1	198'	Clay	7/8/2019	20-198'
SB#2	34'	Clay	7/8/2019	22-34'
SB#3	34'	Clay	7/9/2019	16-34'
SB#4	28'	Clay	7/12/2019	17-28'
SB#5	30'	Clay	8/8/2019	12-30'
SB#6	104'	Clay	8/8/2019	16-104'





# Hungry Horse, LLC

Environmental Solutions

P.O. Box 1058  
Hobbs, NM 88241

## FIELD BOREHOLE LOG

BOREHOLE NO.: **SB #1**

TOTAL DEPTH: **198'**

1 of 2

### PROJECT INFORMATION

PROJECT: **Apache Corporation**  
SITE LOCATION: **NEDU 627**  
JOB NO.: **71819-1**  
LOGGED BY: **Jerry Brian**  
PROJECT MANAGER: **Jerry Brian**  
DATES DRILLED: **7/8/2019**

### DRILLING INFORMATION

DRILLING CO.: **Hungry-Horse, LLC**  
DRILLER: **John Norris**  
RIG TYPE: **INGERSOLL RAND TH60**  
METHOD OF DRILLING: **Air Rotary**  
SAMPLING METHODS: **Cutting Recovery**  
HAMMER WT./DROP

DEPTH	WATER LEVEL	LITHOLOGY	LITHOLOGY DESCRIPTION:	Sample Interval	FIELD CHLORIDES (mg/kg)	ANALYTICAL CHLORIDES (mg/kg)	DEPTH
					1.0 FIELD CHLORIDES (mg/kg) 25000.0	1.0 ANALYTICAL CHLORIDES (mg/kg) 25000.0	
9			Topsoil: Brn sandy loam				9
10			Caliche: Caliche/Tan				10
15							15
20			Clay: Brownish; MOIST at 20-21'; powder dry at 25'; redish brwn at 32-37'	20'-Moist			20
25							25
30			Clay and Silt: Red				30
35							35
40			Clay: Red				40
45							45
50			Clay and Silt: Red	Dry			50
55							55
60							60
65							65
70							70
75			Clay: Tan; 81-82' yellow;				75
80			82-87' tan; 87-88' yellow;	Dry			80
85			88-90' red; 90-99'				85
90			tan;99-122' red;122-142				90
95			redish/tan				95
100							100

#### SYMBOL LEGEND - WATER LEVEL



#### Pattern Legend

- Caliche
- Clay
- Clay and Silt
- Sand
- Sandy Silt
- Topsoil





# Hungry Horse, LLC

Environmental Solutions

P.O. Box 1058  
Hobbs, NM 88241

## FIELD BOREHOLE LOG

BOREHOLE NO.: **SB #1**

TOTAL DEPTH: **198'**

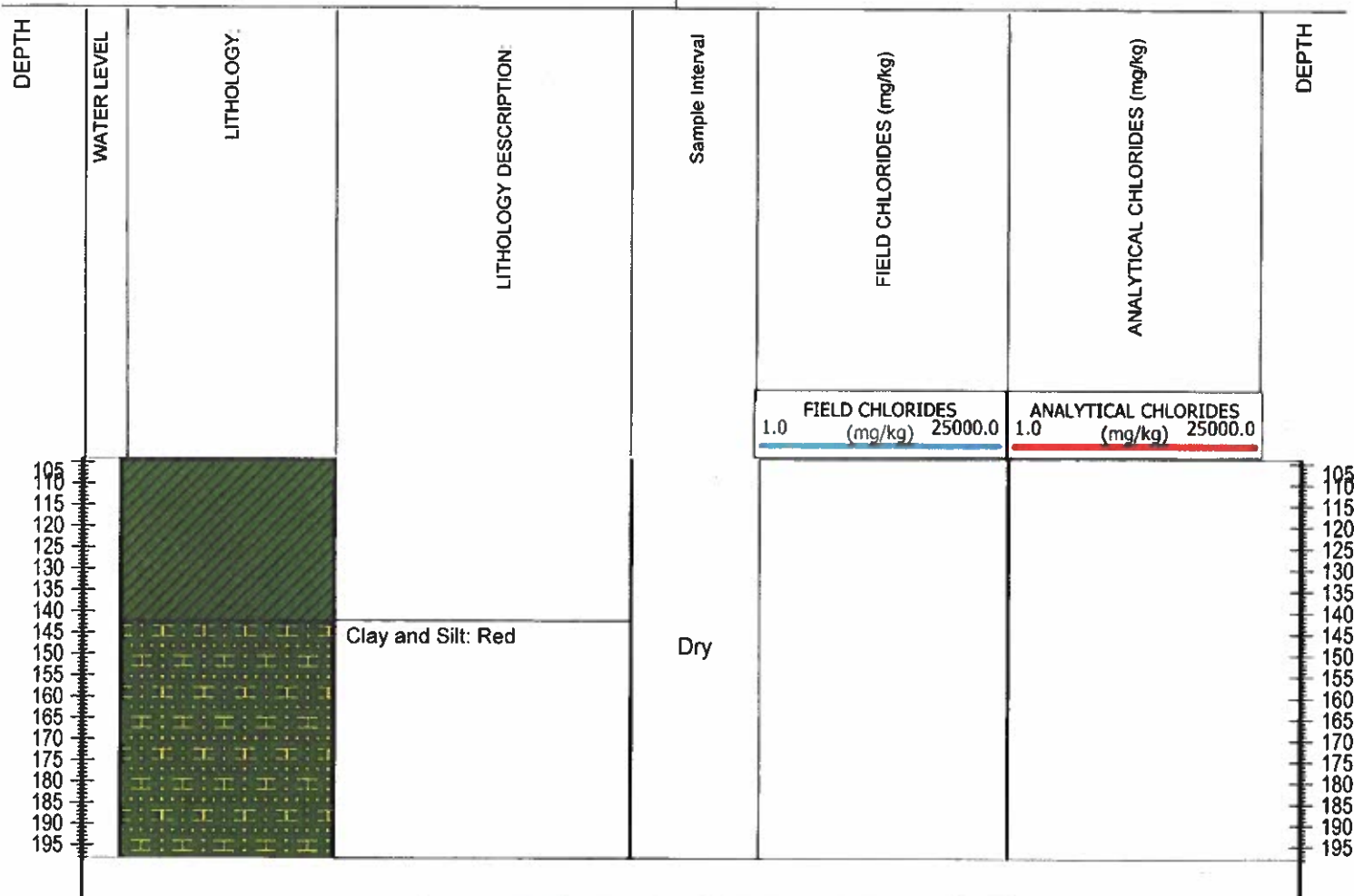
2 of 2

### PROJECT INFORMATION

PROJECT: **Apache Corporation**  
SITE LOCATION: **NEDU 627**  
JOB NO.: **71819-1**  
LOGGED BY: **Jerry Brian**  
PROJECT MANAGER: **Jerry Brian**  
DATES DRILLED: **7/8/2019**

### DRILLING INFORMATION

DRILLING CO.: **Hungry-Horse, LLC**  
DRILLER: **John Norris**  
RIG TYPE: **INGERSOLL RAND TH60**  
METHOD OF DRILLING: **Air Rotary**  
SAMPLING METHODS: **Cutting Recovery**  
HAMMER WT./DROP



#### SYMBOL LEGEND - WATER LEVEL



#### Pattern Legend



Caliche



Clay



Clay and Silt



Sand



Sandy Silt



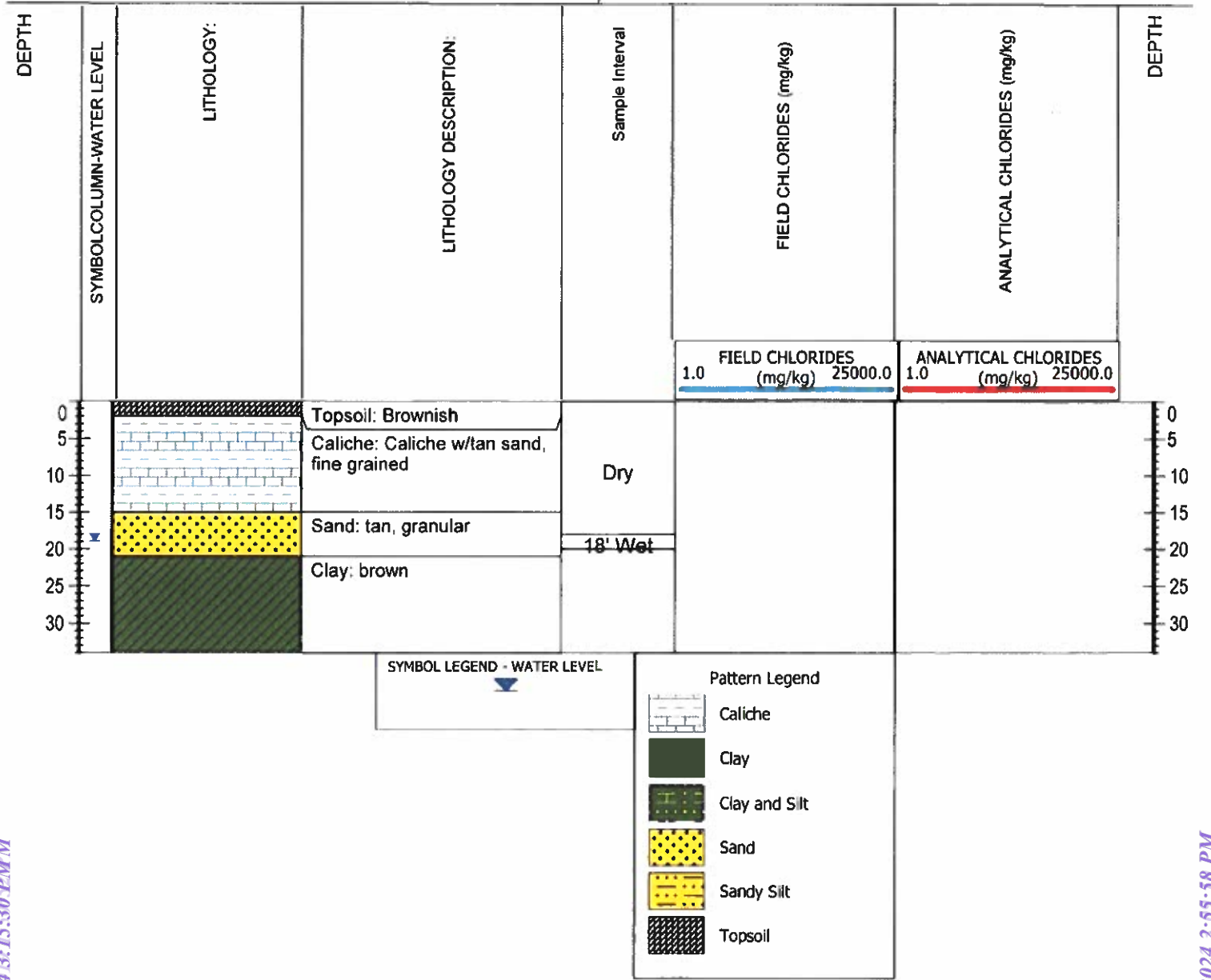
Topsoil



**Hungry Horse, LLC**  
Environmental Solutions  
P.O. Box 1058  
Hobbs, NM 88241

**FIELD BOREHOLE LOG**  
BOREHOLE No. **SB #2**  
TOTAL DEPTH **34'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT	Apache Corporation	DRILLING CO.:	Hungry-Horse, LLC
SITE LOCATION:	NEDU 627	DRILLER:	John Norris
JOB NO.:	71819-1	RIG TYPE:	INGERSOLL RAND TH60
LOGGED BY:	Jerry Brian	METHOD OF DRILLING:	Air Rotary
PROJECT MANAGER:	Jerry Brian	SAMPLING METHODS:	Cutting Recovery
DATES DRILLED:	7/8/2019	HAMMER WT./DROP	





# Hungry Horse, LLC

Environmental Solutions

P.O. Box 1058  
Hobbs, NM 88241

## FIELD BOREHOLE LOG

BOREHOLE No. **SB#3**  
TOTAL DEPTH **34'**

### PROJECT INFORMATION

PROJECT: **Apache Corporation**  
SITE LOCATION: **NEDU 627**  
JOB NO.: **71819-1**  
LOGGED BY: **Jerry Brian**  
PROJECT MANAGER: **Jerry Brian**  
DATES DRILLED: **7/9/19**

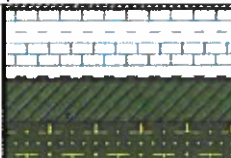
### DRILLING INFORMATION

DRILLING CO.: **Hungry-Horse, LLC**  
DRILLER: **John Norris**  
RIG TYPE: **INGERSOLL RAND TH60**  
METHOD OF DRILLING: **Air Rotary**  
SAMPLING METHODS: **Cutting Recovery**  
HAMMER WT./DROP

DEPTH	SYMBOL COLUMN-WATER LEVEL	LITHOLOGY:	LITHOLOGY DESCRIPTION:	Sample Interval	FIELD CHLORIDES (mg/kg)	ANALYTICAL CHLORIDES (mg/kg)	DEPTH
0					1.0	1.0	0
10					25000.0	25000.0	10
15							15
20							20
25							25
30							30

0  
10  
15  
20  
25  
30

0  
10  
15  
20  
25  
30



Topsail: brownish  
Caliche: caliche w/some silty sand  
Clay: brown, clumps, moist  
Clay and Silt: reddish brown

Dry  
18' moist  
Dry

FIELD CHLORIDES  
(mg/kg) 25000.0

ANALYTICAL CHLORIDES  
(mg/kg) 25000.0

SYMBOL LEGEND - WATER LEVEL

Pattern Legend

- Caliche
- Clay
- Clay and Silt
- Sand
- Sandy Silt
- Topsoil



# Hungry Horse, LLC

Environmental Solutions

P.O. Box 1058  
Hobbs, NM 88241

## FIELD BOREHOLE LOG

BOREHOLE No. **SB#4**  
TOTAL DEPTH **28'**

### PROJECT INFORMATION

PROJECT: **Apache Corporation**  
SITE LOCATION: **NEDU 627**  
JOB NO.: **71819-1**  
LOGGED BY: **Jerry Brian**  
PROJECT MANAGER: **Jerry Brian**  
DATES DRILLED: **7/12/2019**

### DRILLING INFORMATION

DRILLING CO.: **Hungry-Horse, LLC**  
DRILLER: **John Norris**  
RIG TYPE: **INGERSOLL RAND TH60**  
METHOD OF DRILLING: **Air Rotary**  
SAMPLING METHODS: **Cutting Recovery**  
HAMMER WT./DROP

DEPTH	SYMBOL COLUMN - WATER LEVEL	LITHOLOGY	LITHOLOGY DESCRIPTION	Sample Interval	FIELD CHLORIDES (mg/kg)	ANALYTICAL CHLORIDES (mg/kg)	DEPTH
0					1.0	1.0	0
5			Topsoil: brownish		(mg/kg) 25000.0	(mg/kg) 25000.0	5
10			Caliche: tan	Dry			10
15							15
20			Clay: brown, moist	18' moist			20
25				Dry			25

SYMBOL LEGEND - WATER LEVEL



### Pattern Legend

- Caliche
- Clay
- Clay and Silt
- Sand
- Sandy Silt
- Topsoil



# Hungry Horse, LLC

Environmental Solutions

P.O. Box 1058  
Hobbs, NM 88241

## FIELD BOREHOLE LOG

BOREHOLE No. **SB#5**

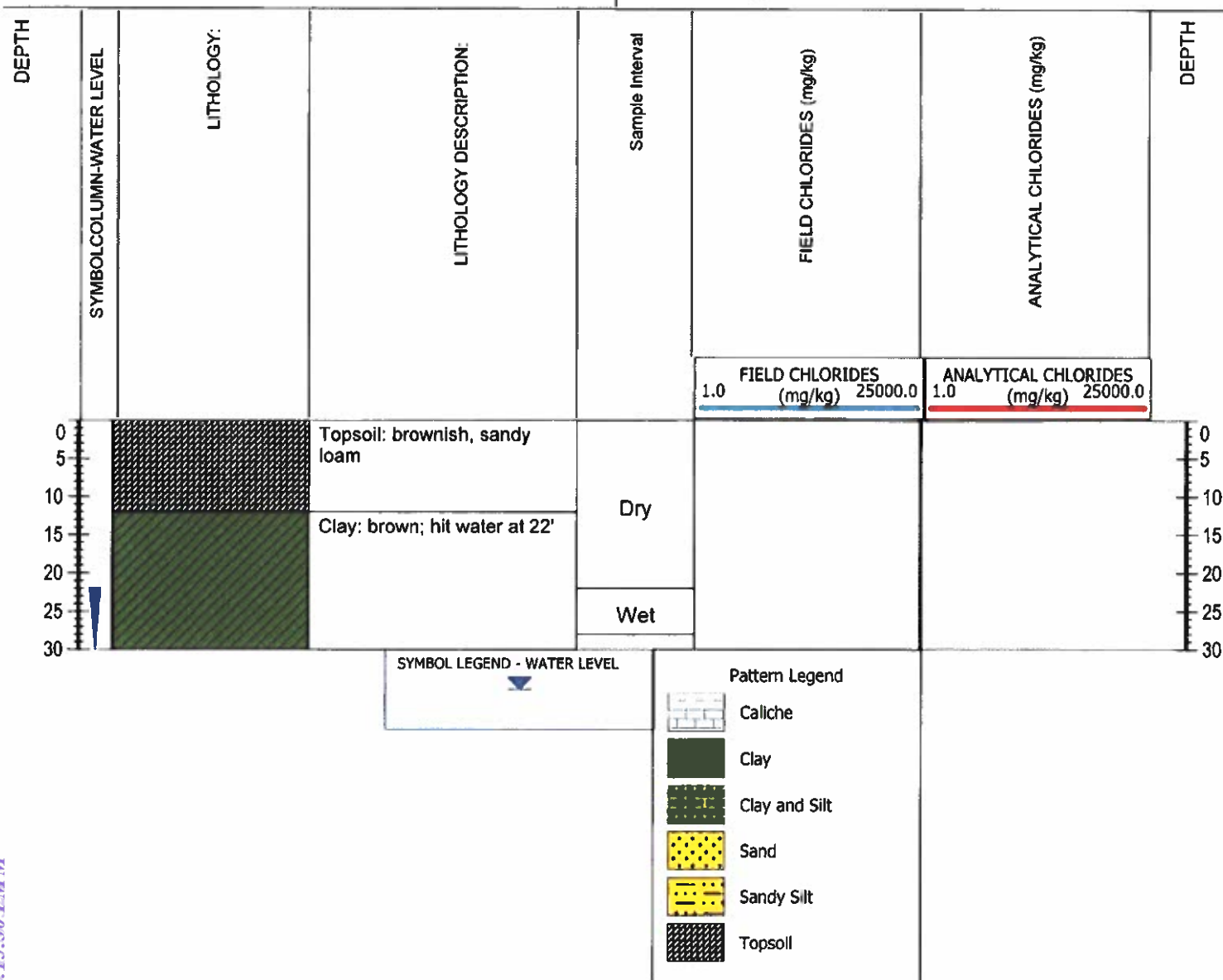
TOTAL DEPTH **30'**

### PROJECT INFORMATION

PROJECT: **Apache Corporation**  
SITE LOCATION: **NEDU 627**  
JOB NO.: **71819-1**  
LOGGED BY: **Jerry Brian**  
PROJECT MANAGER: **Jerry Brian**  
DATES DRILLED: **8/8/19**

### DRILLING INFORMATION

DRILLING CO.: **Hungry-Horse, LLC**  
DRILLER: **John Norris**  
RIG TYPE: **INGERSOLL RAND TH60**  
METHOD OF DRILLING: **Air Rotary**  
SAMPLING METHODS: **Cutting Recovery**  
HAMMER WT./DROP





# Hungry Horse, LLC

Environmental Solutions

P.O. Box 1058  
Hobbs, NM 88241

## FIELD BOREHOLE LOG

BOREHOLE No. **SB#6**

TOTAL DEPTH **104'**

### PROJECT INFORMATION

PROJECT: **Apache Corporation**  
SITE LOCATION: **NEDU 627**  
JOB NO.: **71819-1**  
LOGGED BY: **Jerry Brian**  
PROJECT MANAGER: **Jerry Brian**  
DATES DRILLED: **8/8/19**

### DRILLING INFORMATION

DRILLING CO.: **Hungry-Horse, LLC**  
DRILLER: **John Norris**  
RIG TYPE: **INGERSOLL RAND TH60**  
METHOD OF DRILLING: **Air Rotary**  
SAMPLING METHODS: **Cutting Recovery**  
HAMMER WT./DROP

DEPTH	SYMBOL COLUMN-WATER LEVEL	LITHOLOGY:	LITHOLOGY DESCRIPTION:	Sample Interval	FIELD CHLORIDES (mg/kg)	ANALYTICAL CHLORIDES (mg/kg)	DEPTH
					1.0 FIELD CHLORIDES (mg/kg) 25000.0	1.0 ANALYTICAL CHLORIDES (mg/kg) 25000.0	
9			Topsoil: hard				9
10			Caliche: silty	Dry			10
15							15
20			Clay: reddish brown, 20'-29' moist	Moist			20
25							25
30							30
35							35
40							40
45							45
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100

SYMBOL LEGEND - WATER LEVEL

Pattern Legend

- Caliche
- Clay
- Clay and Silt
- Sand
- Sandy Silt
- Topsoil

Apache Corporation  
NEDU #627  
Pit Sampling 08/8/19

Sample ID	Depth	Soil	Sample Date	Lab BTEX	Lab Chl	Lab TPH
MW5 (SB#5)	32'	Clay	8/8/2019	<0.300	3400	<10





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

August 19, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #627

Enclosed are the results of analyses for samples received by the laboratory on 08/15/19 7:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 08/15/2019  
 Reported: 08/19/2019  
 Project Name: NEDU #627  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 08/08/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: MW5 - 32' (H902797-01)**

BTEX 80218		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	<10.0	10.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
*	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Apache Corp</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>															
Project Manager: <u>Bruce Baker</u>		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chindes</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">X Bux</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">X TPH</div> </div>															
Address:		Company: <u>Apache Corp</u>																	
City: State: Zip:		Attn: <u>Bruce Baker</u>																	
Phone #: Fax #:		Address: <u>2350 Marland</u>																	
Project #: Project Owner:		City: <u>Hobbs</u>																	
Project Name:		State: <u>NM</u> Zip: <u>88240</u>																	
Project Location: <u>NEDU 027</u>		Phone #: <u>432-681-6782</u>																	
Sampler Name:		Fax #:																	
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						
<u>H902797</u>	<u>1 MW5-30'</u>	<u>G-1</u>			<u>X</u>					<u>X</u>		<u>8-8-19</u>	<u>10:11</u>						

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 the client for the 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 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.

Relinquished By: <u>Natlynn Montanez</u>	Date: <u>8-15-19</u>	Received By: <u>Brandi Oldaker</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>Brandi Oldaker</u>	Date: <u>8-15-19</u>	Received By: <u>Jauara Oldaker</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <u>2.0°C / 2.4°C correct</u>	Time: <u>7:53</u>	Time: <u>6:55</u>	REMARKS: <u>Kmontanez@Hurgul-Horse.com</u> <u>Larry.Baker@ApacheCorp.com</u>	
Sampler - UPS - Bus - Other: <u>#97</u>	Sample Condition: <u>Cool</u>	CHECKED BY: (Initials) <u>BWD 40</u>		

# HUNGRY HORSE, LLC

3709 S. Eunice Hwy (P.O. Box 1058)  
Hobbs, NM 88241  
Office (575) 393-3386

Apache Corporation: NEDU #627  
Soil Bore #1



DIRTWORK (PAD, FACILITY AND ROAD CONSTRUCTION)  
ON SITE REMEDIATION, RECLAMATION, SUBSURFACE & SURFACE DELINEATION  
MONITORING WELL INSTALLATION & GROUND WATER REMEDIATION  
ELECTRICAL SERVICES



# HUNGRY HORSE, LLC

3709 S. Eunice Hwy (P.O. Box 1058)  
Hobbs, NM 88241  
Office (575) 393-3386

Apache Corporation: NEDU #627  
Soil Bore #2



DIRTWORK (PAD, FACILITY AND ROAD CONSTRUCTION)  
ON SITE REMEDIATION, RECLAMATION, SUBSURFACE & SURFACE DELINEATION  
MONITORING WELL INSTALLATION & GROUND WATER REMEDIATION  
ELECTRICAL SERVICES

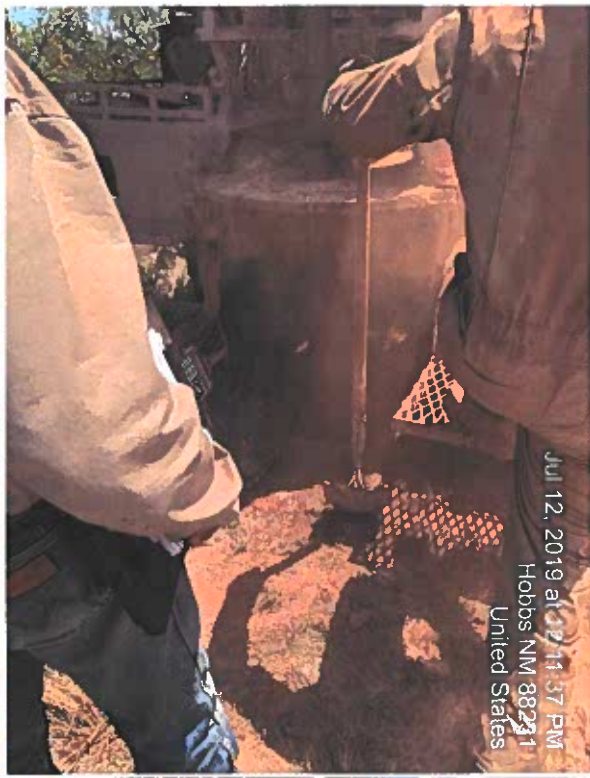


**APACHE  
NEDU 627 Soil Bore #3  
DURING PHOTOS**





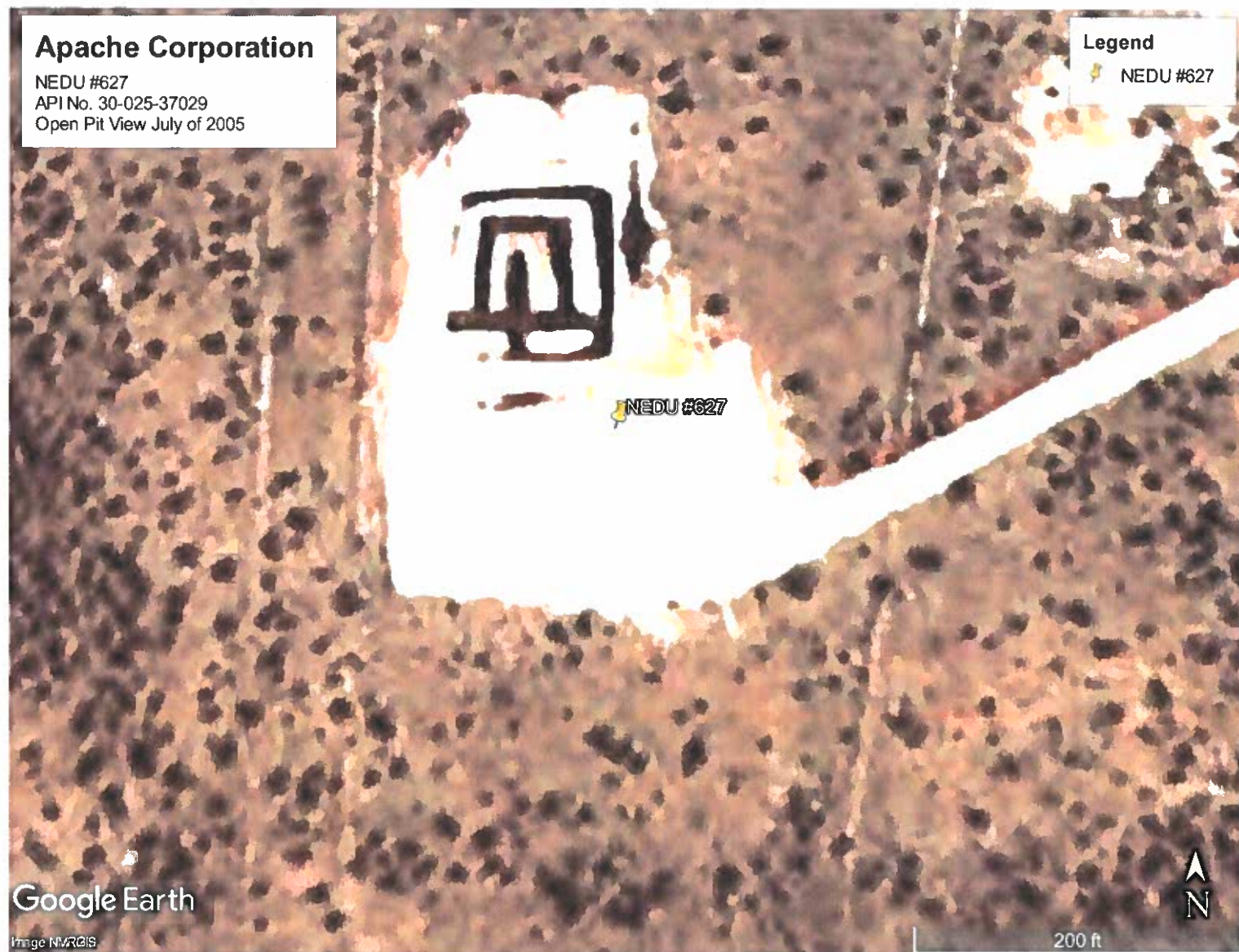
APACHE  
NEDU 627 "Soil Bore #4"  
DURING PHOTOS

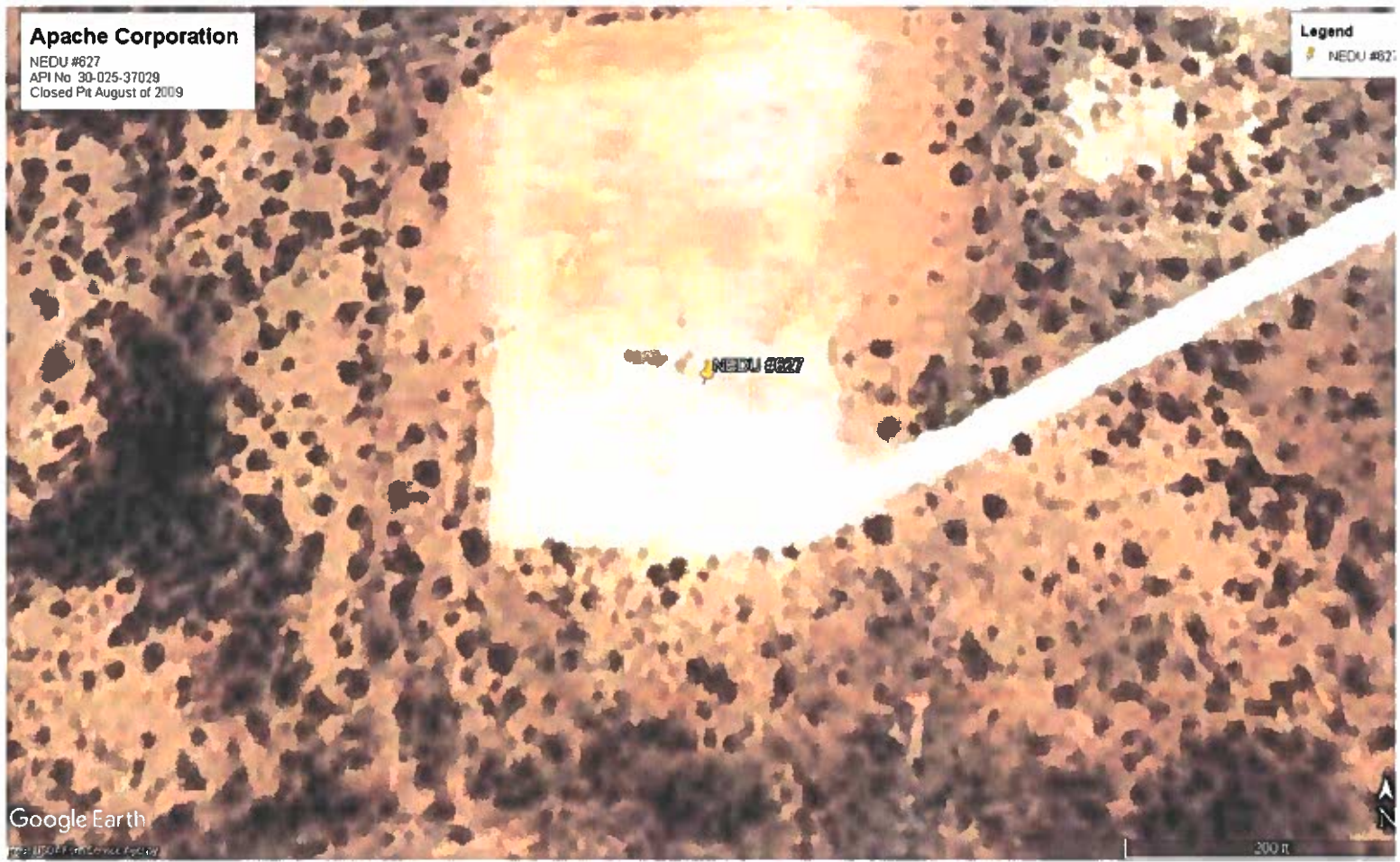


APACHE  
NEDU 627 "Soil Bore #4"  
DURING PHOTOS













**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 2192

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 2192
	Action Type: [C-144] PIT Generic Plan (C-144)

CONDITIONS

Created By	Condition	Condition Date
jburdine	None	7/6/2022



# Locations

Legend

 NEDU Release and Pit

NEDU 613 injection line release area

NEDU 627 Pit

Google Earth

500 ft





Karst

Legend

- High
- Low
- Medium

NEDU 613 injection line release area

Google Earth





1000 ft

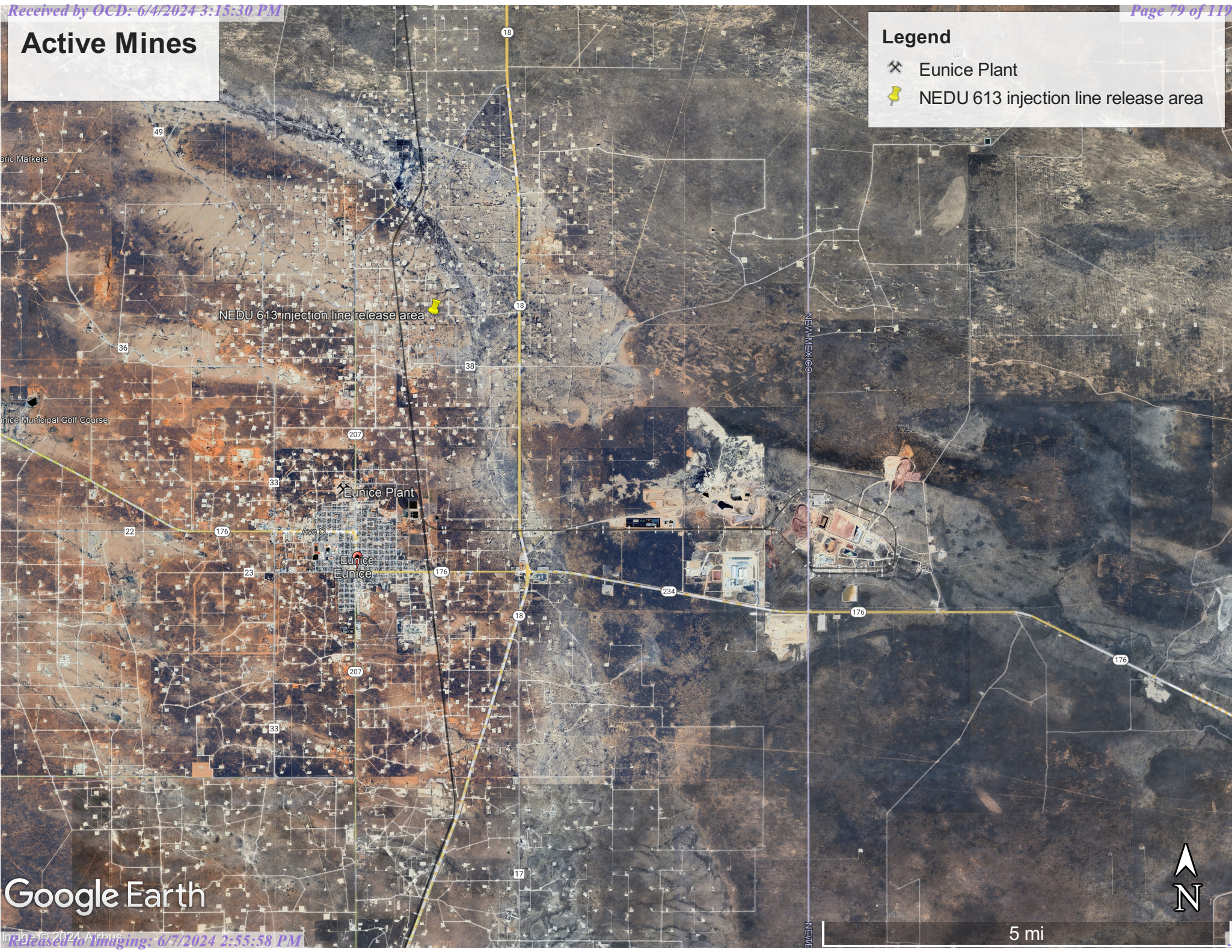


# Active Mines

Legend

 Eunice Plant

 NEDU 613 injection line release area




Google Earth

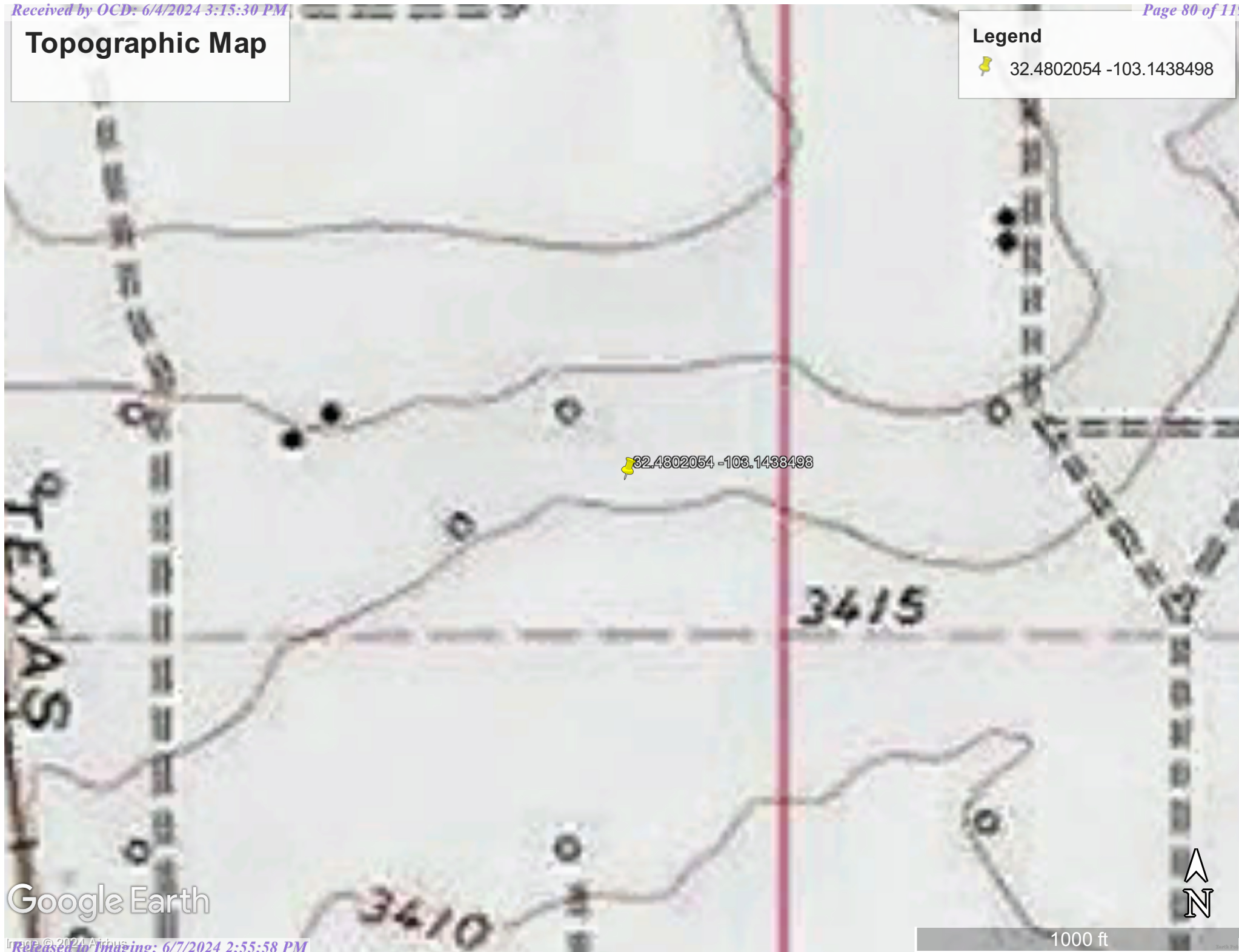
5 mi



# Topographic Map

## Legend

 32.4802054 -103.1438498



Google Earth



Details | Basemap

Share | Print | Measure | 32.4802054 -103.1438498

About | Content | Legend

Legend

NFHL

Cross-Sections

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee

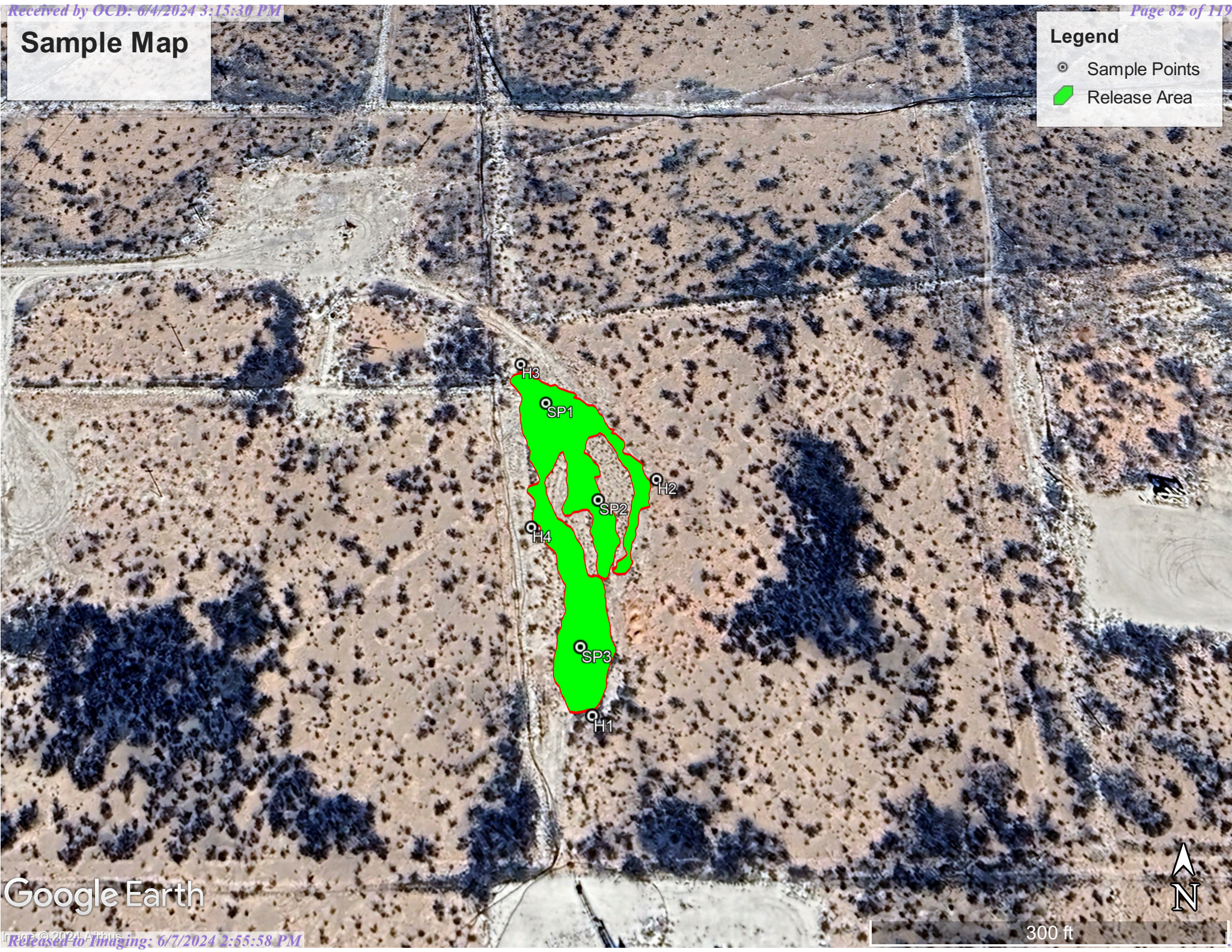




# Sample Map

**Legend**

- Sample Points
- Release Area



Google Earth



## Delineation Samples

[illegible]



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

---

May 21, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 16:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: H 1 @ 6" (H242703-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	175	87.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	183	91.7	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: H 2 @ 6" (H242703-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3		
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2		
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2		
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8		
Total BTEX	<0.300	0.300	05/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	175	87.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	183	91.7	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: H 3 @ 6" (H242703-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3		
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2		
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2		
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8		
Total BTEX	<0.300	0.300	05/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	175	87.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	183	91.7	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: H 4 @ 6" (H242703-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3		
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2		
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2		
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8		
Total BTEX	<0.300	0.300	05/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	175	87.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	183	91.7	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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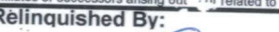
A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <b>Space</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																			
Project Manager: <b>Bruce Becker</b>		P.O. #:																					
Address:		Company:																					
City: <b>Albany</b>	State: <b>NY</b> Zip: <b>12204</b>	Attn:																					
Phone #:	Fax #:	Address:																					
Project #:	Project Owner:	City:																					
Project Name:		State: Zip:																					
Project Location: <b>NEDU 613</b>		Phone #:																					
Sampler Name: <b>Sosie</b>		Fax #:																					
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING												
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:											DATE
<b>4242703</b>	<b>41 @ 6" *</b>	<b>G</b>	<b>1</b>									<b>4/15</b>	<b>3:14</b>										
<b>2</b>	<b>42 @ 6"</b>	<b>G</b>	<b>1</b>									<b>1:52</b>											
<b>3</b>	<b>43 @ 6"</b>	<b>G</b>	<b>1</b>									<b>1:54</b>											
<b>4</b>	<b>44 @ 6"</b>	<b>G</b>	<b>1</b>									<b>3:54</b>											
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Relinquished By: 		Date: 5/16/24		Received By: Shawn Cisneros		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		All Results are emailed. Please provide Email address: AP @ Diamond Data Analytics, Inc	
Relinquished By:		Time: 4:39pm		Received By:		L. Baker, Jason O. jg821052@gmail.com		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 3.1		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		DC		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes <input type="checkbox"/> No <input type="checkbox"/>	
FORM-006 R 5.4 07/11/25								Thermometer ID #140 Correction Factor 0°C	
								Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





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

May 21, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 16:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 1 SURFACE (H242704-01)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	QR-03
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	QR-03
Total BTEx	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21200	16.0	05/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	175	87.6	200	1.26	
DRO >C10-C28*	385	10.0	05/16/2024	ND	183	91.7	200	2.69	
EXT DRO >C28-C36	148	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 1 @ 1' (H242704-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	05/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	175	87.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	183	91.7	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 1 @ 2' (H242704-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEx	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2024	ND	175	87.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	183	91.7	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 1 @ 3' (H242704-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 1 @ 4' (H242704-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 2 SURFACE (H242704-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3		
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2		
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2		
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8		
Total BTEx	<0.300	0.300	05/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6480	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	104	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	60.5	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 2 @ 1' (H242704-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3		
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2		
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2		
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8		
Total BTEx	<0.300	0.300	05/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 2 @ 2' (H242704-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 3 SURFACE (H242704-09)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3		
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2		
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2		
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8		
Total BTEX	<0.300	0.300	05/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7040	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	37.1	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	21.2	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 3 @ 1' (H242704-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEx	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 3 @ 2' (H242704-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 3 @ 3' (H242704-12)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEx	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 3 @ 4' (H242704-13)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3		
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2		
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2		
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8		
Total BTX	<0.300	0.300	05/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 05/15/2024  
 Reported: 05/21/2024  
 Project Name: NEDU #613  
 Project Number: NEDU #613  
 Project Location: NONE GIVEN

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shari Cisneros

**Sample ID: SP 3 @ 5' (H242704-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.20	110	2.00	10.3	
Toluene*	<0.050	0.050	05/17/2024	ND	2.29	114	2.00	12.2	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.36	118	2.00	14.2	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	7.30	122	6.00	14.8	
Total BTEx	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	185	92.7	200	0.864	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	200	99.8	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																		
Project Manager: <u>Bruce Baker</u>		P.O. #:																				
Address:		Company:																				
City: <u>Hobbs</u>	State: <u>NM</u> Zip: <u>88240</u>	Attn:																				
Phone #:	Fax #:	Address:																				
Project #:	Project Owner:	City:																				
Project Name:		State: Zip:																				
Project Location: <u>NEDU 613</u>		Phone #:																				
Sampler Name: <u>Sosa Keene</u>		Fax #:																				
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		<u>CL</u> <u>BTEX</u> <u>EXT TPH</u>											
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL											OTHER	DATE
<u>H242704</u>																						
1	<u>SP1 surface</u>	<u>G</u>																			<u>5/15</u>	<u>9:54</u>
2	<u>SP1 @ 1'</u>	<u>G</u>																				<u>9:56</u>
3	<u>SP1 @ 2'</u>	<u>G</u>																				<u>9:58</u>
4	<u>SP1 @ 3'</u>	<u>G</u>																				<u>10:08</u>
5	<u>SP1 @ 4'</u>	<u>G</u>																				<u>10:10</u>
6	<u>SP2 surface</u>	<u>G</u>																				<u>10:46</u>
7	<u>SP2 @ 1'</u>	<u>G</u>																				<u>10:48</u>
8	<u>SP2 @ 2'</u>	<u>G</u>																				<u>10:50</u>
9	<u>SP3 surface</u>	<u>G</u>										<u>11:52</u>										
10	<u>SP3 @ 1'</u>	<u>G</u>										<u>11:54</u>										

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Relinquished By: <u>Sosa Keene</u>	Date: <u>5/15/24</u>	Received By: <u>Shan Cimeras</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <u>4:39 pm</u>	Received By:	All Results are emailed. Please provide Email address: <u>AP@diamondbecknm.com</u>	
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	REMARKS: <u>E-mail Results</u>	
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>3.1</u>	Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition	
			Cool Intact Observed Temp. °C	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			Corrected Temp. °C	

FORM 000 R 3-4 07/11/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache  
Project Manager: Bruce Baker  
Address: \_\_\_\_\_  
City: Hobbs State: NM Zip: 88240  
Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Project Location: NEDU 613  
Sampler Name: \_\_\_\_\_

## BILL TO

P.O. #: \_\_\_\_\_  
Company: \_\_\_\_\_  
Attn: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone #: \_\_\_\_\_  
Fax #: \_\_\_\_\_

## ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H242704

11 SP302'  
12 SP303'  
13 SP304'  
14 SP305'

# CONTAINERS

GROUNDWATER

WASTEWATER

MATRIX

SOIL

OIL

SLUDGE

OTHER:

PRESERV.

ACID/BASE:

ICE / COOL

OTHER:

SAMPLING

DATE

TIME

5/15

11:34

11:38

11:40

2:04

CL  
BTX  
BEXT-TPH

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Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Date: 5/15/24

Time: 4:39 PM

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

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Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

Turnaround Time:

Thermometer ID #140

Correction Factor 0°C

Standard

Rush

Bacteria (only) Sample Condition  
Cool Intact Observed Temp. °C  
☐ Yes ☐ Yes  
☐ No ☐ No Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





**Revegetation  
And  
Noxious Weed Plan**

**Revegetation Plan:**

All the disturbed area in the pasture will be properly prepared and reseeded with NMSLO shallow seed mixture. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

**Noxious Weed Plan:**

Apache Corporation will treat noxious weeds if they become established within the area of remediation. Weed control will be maintained on the disturbed land where noxious weeds exist both prior to remediation and restoration. Apache Corporation will consult with the Authorized Officer for acceptable weed control methods.

# NMSLO Seed Mix

# Sandy Loam (SL)

## SANDY LOAM (SL) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<b>Grasses:</b>			
Galleta grass	Viva, VNS, So.	2.5	F
Little bluestem	Cimmaron, Pastura	2.5	F
Blue grama	Hachita, Lovington	2.0	D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
<b>Forbs:</b>			
Indian blanketflower	VNS, Southern	1.0	D
Parry penstemon	VNS, Southern	1.0	D
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D
<b>Shrubs:</b>			
Fourwing saltbush	VNS, Southern	2.0	D
Common winterfat	VNS, Southern	1.0	F
Apache plume	VNS, Southern	0.75	F
Total PLS/acre		17.75	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.





Search

?

Map Unit Legend

?

Lea County, New Mexico (NM025)			
Lea County, New Mexico (NM025)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	34.8	66.4%
SE	Simona fine sandy loam, 0 to 3 percent slopes	15.0	28.7%
SR	Simona-Upton association	2.6	4.9%
Totals for Area of Interest		52.4	100.0%

Soil Map

?

Scale (not to scale) v



Warning: Soil Map may not be valid at this scale.

You have zoomed in beyond the scale at which the soil map for this area is intended to be used. Mapping of soils is done at a particular scale. The soil surveys that comprise your AOI were mapped at 1:20,000. The design of map units and the level of detail shown in the resulting soil map are dependent on that map scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.



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State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

QUESTIONS  
  
Action 350808

QUESTIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:
	873
	Action Number:
	350808
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2407444539
Incident Name	NAPP2407444539 NEDU 613 INJECTION LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NEDU 613 Injection Line
Date Release Discovered	03/07/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 100 BBL   Recovered: 0 BBL   Lost: 100 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 350808

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:
	873
	Action Number:
	350808
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 03/14/2024
--	--

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QUESTIONS, Page 3

Action 350808

**QUESTIONS (continued)**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:
	873
	Action Number:
	350808
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	21200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	533
GRO+DRO	(EPA SW-846 Method 8015M)	385
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/01/2024
On what date will (or did) the final sampling or liner inspection occur	08/09/2024
On what date will (or was) the remediation complete(d)	09/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	18500
What is the estimated volume (in cubic yards) that will be reclaimed	2176
What is the estimated surface area (in square feet) that will be remediated	18500
What is the estimated volume (in cubic yards) that will be remediated	2176

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 350808

**QUESTIONS (continued)**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:	873
	Action Number:	350808
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	<a href="#">Sundance Services, Inc [fKJ1600527371]</a>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: <a href="mailto:larry.baker@apachecorp.com">larry.baker@apachecorp.com</a> Date: 06/04/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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QUESTIONS, Page 5  
  
Action 350808

QUESTIONS (continued)

Operator:  APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:  873
	Action Number:  350808
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6  
  
Action 350808

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 350808
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS  
  
Action 350808

CONDITIONS

Operator:  APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:  873
	Action Number:  350808
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written. Apache Corp. has 90-days (September 5, 2024) to submit to OCD its appropriate or final remediation closure report.	6/7/2024