# Forest Oil Corporation いんだいだと Pit Closure Summary

**CMU #32** 

API 30-025-01451

Lea County, NM

UL. P, Sec. 17, T17S, R33E

GPS N32 49.775 W103 40.738

Start date: 12Mar09

Finish date: 23Mar09

RECEIVED

MAR 3 0 2009 HOBBSOCD

FINAL

**Prepared By: Vernon K. Black** 

**Environmental Technician** 

**Hungry Horse Environmental, LLC** 

PO Box 1058

Hobbs, NM 88240

(575)-393-3386



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| Attac | chmer | ıt | 1 | - | O | ve | rhe | eac | ١V | iew |  |
|-------|-------|----|---|---|---|----|-----|-----|----|-----|--|
|       |       |    | _ |   | _ |    | _   |     |    |     |  |

- Attachment 2 Lab Analytical & Chain of Custody
- Attachment 3 One call
- Attachment 4 Photos of Progress
- Attachment 5 Proof of Closure Notice
- Attachment 6 Plot Plan
- Attachment 7 C 144 w/Closure Plan
- Attachment 8 C 144 Final

#### 1.0 Introduction

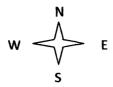
This report addresses the pit (work over) closure at Forest Oil Corporation's CMU #32 injection well. Analytical results, photos of the project, an overhead map, and a general scope of the work conducted are included in this document as attachments. The project manager for Hungry Horse Environmental Services was David Carter.

#### 2.0 Area Description

This geographical area is primarily caliche/caliche rock base covered with sand. Vegetation present in this area is mesquite, yucca plants, and a variety of range grasses and weeds. The depth to the ground water is >150' based on the Lea County Depth to Ground Water Map. There are no water wells or surface bodies of water within a half of a mile of this location. This location is in rural Lea County, NM near Maljamar west of Humming Bird approximately two miles north of the intersection of Mescalero and Humming Bird Roads.

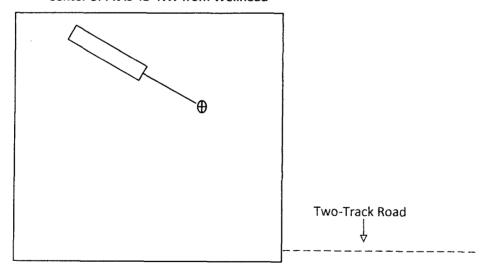
#### 3.0 Pit Closure Process

This pit closure was accomplished using the Waste Excavation and Removal Process. The work over pit was 15'L x 8'W X 5'D and was lined with a synthetic liner. The pit contents, along with the liner, and material from underneath the liner as well as the pit walls were excavated and removed. The final depth of the excavation was seven feet. All material removed was disposed of at Lea Land SWM 131401. A five-point composite soil sample was obtained and taken to Cardinal Labs for analysis. Lab results indicated that chlorides, TPH, GRO/DRO, Benzene, and BTEX were all well below the limits set forth by NM OCD. Larry Johnson, NM OCD, was notified of the results and advised that backfilling could commence. The excavated area was backfilled using clean material from a nearby source and contoured to match the existing grade of the location. All work was conducted on the existing location; therefore no seeding or cover design off location was conducted.

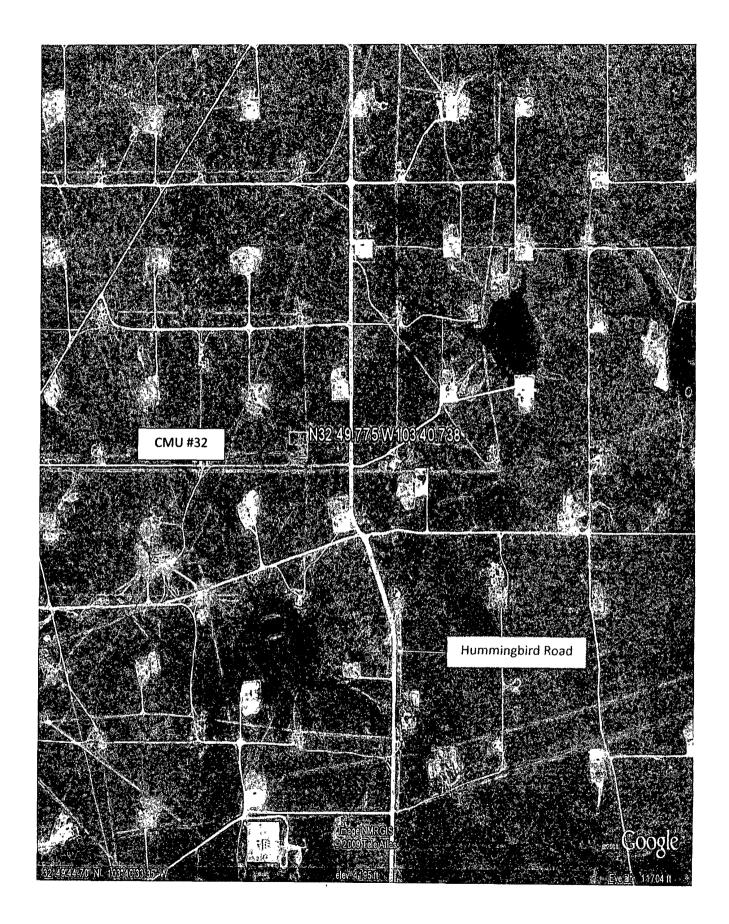




CMU #32 Center of Pit is 45' NW from Wellhead



Note: Drawing is not to Scale





ANALYTICAL RESULTS FOR HUNGRY HORSE ENVIRONMENTAL SERVICES ATTN; VERNON K. BLACK P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (575) 391-4585

Receiving Date: 03/19/09

Reporting Date: 03/23/09 Project Owner: FOREST OIL

Project Name: CMU #32

Project Location: LEA COUNTY, NM

Sampling Date: 03/18/09 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

| LAB NUMBER SAMPLE ID        | BENZENE<br>(mg/kg) | TOLUENE<br>(mg/kg) | ETHYL<br>BENZENE<br>(mg/kg) | TOTAL<br>XYLENES<br>(mg/kg) |
|-----------------------------|--------------------|--------------------|-----------------------------|-----------------------------|
| H17081-1 COMPOSITE 5'BGS    | 03/20/09           | 03/20/09           | 03/20/09                    | 03/20/09                    |
| SOME OSTE 3 BGS             | <0.050             | <0.050             | <0.050                      | <0.300                      |
|                             |                    |                    |                             |                             |
| Quality Control             |                    |                    |                             |                             |
| True Value QC               | 0.049              | 0 050              | 0 049                       | 0 149                       |
| % Recovery                  | 0.050              | 0.050              | 0.050                       | 0.150                       |
| Relative Percent Difference | 98.0               | 100                | 98.0                        | 99.3                        |
| - CICOUR DIMETONICS         | 1.8                | 3.4                | 3.4                         | 4.6                         |

METHOD: EPA SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

13/24/09

PLEASE NOTE Liability and Dameges Cerdinal's liability and client's exclusive remedy for any claim arising, whether besed in contract or ton, shall be limited to the amount paid by client for analyses service in no event shall be represented by cardinal be liable for incidental or consequential damages including without limitetion. Dusiness interruptions loss of use, or loss of profits incurred by client, its subsidiaries related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any or the above-stated reasons or otherwise. Results



ANALYTICAL RESULTS FOR

HUNGRY HORSE ENVIRONMENTAL SERVICES

ATTN: VERNON K. BLACK

P.O. BOX 1058 HOBBS, NM 88241

FAX TO: (575) 391-4585

Receiving Date: 03/19/09

Reporting Date: 03/23/09

Project Owner: FOREST OIL

Project Name: CMU #32

Project Location: LEA COUNTY, NM

Sampling Date: 03/18/09

Sample Type: SOIL.

Sample Condition: COOL & INTACT

Sample Received By AB

Analyzed By: AB/TR

418.1

GRO DRO

TOTAL

LAB NUMBER SAMPLE ID

 $(C_6-C_{10})$  (> $C_{10}-C_{20}$ ) (mg/kg) (mg/kg)

TPH

(mg/kg) i (mg/kg)

CI\*

| ANALYSIS DATE               | 03/20/09 | 03/20/09 | 03/20/09 | 03/19/09 |
|-----------------------------|----------|----------|----------|----------|
| H17081-1 COMPOSITE 5' BGS   | <10 0    | <10 0    | <100     | 352      |
|                             |          |          |          |          |
|                             |          |          |          | <u>}</u> |
|                             |          |          |          |          |
| Quality Control             | 473      | 535      | 319      | 500      |
| True Value QC               | 500      | 500      | 300      | 500      |
| % Recovery                  | 94 6     | 107      | 106      | 100      |
| Relative Percent Difference | 0.7      | 2.9      | 27       | < 0.1    |

METHODS. TPH GRO & DRO: EPA SW-846 8015 M; EPA 418 1; CI-: Std. Methods 4500-CI-B \*Analysis performed on a 1:4 w:v aqueous extract.

Chemist

03/24/09 Date

H17081 TPH2CL HHE

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Results



| One land            | HUMSCY H                             | 28 Fax (676) 393          | A                                 | L I Com   |                          | 11 1 72   |                     |             |             |             |   |               | Page           |                 | <u>'</u>    |       |
|---------------------|--------------------------------------|---------------------------|-----------------------------------|---|--------------------------|---|---------------------|-------------|-------------|-------------|---|---------------|----------------|-----------------|-------------|-------|
| Project Manage      | e: Hungry H                          | K. Black                  | TAPEV                             | INT JAININGS  | P.O. #:                  | ILL TO  |                     | <del></del> | <del></del> | <del></del> | ANAL                                    | YSIS          | REQL           | JEST            |             |       |
| Address:            | PO BUX                               | 058                       | ••• •••                           |   | Comme                    | G 4 4 4 5   | _                   |             |             | 1           |   |               |                |                 |             |       |
| ong:                | Hobbe                                | Oses Alse                 | 1 Zin                             | 89241   | Company:                 | SAME  |                     | 1           |             | 1           |   |               |                |                 |             |       |
| mone # 575-         | 393-3386                             | Fax #: 57                 | . 26/                             | 99271   | Altn:                    |   |                     | 1           |             | j           |   |               | ļ              |                 |             | ļ     |
| Project #:          |                                      | Project Own               | 2.211                             | 1262  | Addrese:                 |   |                     | 1           | 1           |             |   |               | 1              |                 |             |       |
| roject Name;        | cmu#                                 | 32                        |                                   | WELT DIC  | City:                    |   | _                   | 1           |             |             |   |               |                |                 |             | - 1   |
| Lolect Focation     | Vernon K                             | to nim                    | · · ·                             |   |                          | Zip:  |                     | }           | ĺ           | ĺi          | }                                       | 1             |                |                 |             | -     |
| ampler Name:        | Vernon K                             | Black                     | ·                                 |   | Phone #:                 |   |                     |             | 1           |             |   |               | }              |                 | ļ           |       |
| POR LLE USE ONLY    |                                      |                           | TT                                | MATRIX  | Fax #;                   |   |                     | 1           | }           |             |   | 1             |                |                 |             |       |
|                     |                                      |                           | 9                                 |   | PRESERV                  | SAMPLING  | 1 %                 |             |             |             |   |               |                |                 |             |       |
| Lab I.D.            |                                      |                           | 3 8                               | E &   | 1 : 1                    | }   | 1-3                 | <b> </b> ×  |             | 100         |   |               |                |                 |             | }     |
|                     | Sample                               | I.D.                      | CONTAINERS                        | GROUMONGTER<br>MASTEWATER<br>SOIL<br>SOIL<br>SUIL     | w                        | · i   | Chlorides           | M           |             | 8           |   | 1             | 1.             |                 |             |       |
| }                   | 1. Inchair                           | - 11:1                    | 3 5                               | STRV  | 8 8 8 8                  | !   | N                   |             | H           | Sec.        | - 1                                     | ŀ             |                |                 |             |       |
| 17081-1             | Morrover                             | VIE                       | ê S                               |   | ACIDE<br>CE / CC         | DATE TIME   |                     | 8           | P           | Q           |   |               |                |                 |             | - [   |
| ( )                 | Workover<br>Composite                | 5'665.                    | <u>C</u>                          | λ   |                          | 18Moros 1330  |                     | 人           | X           | X_          |   | +             | +              |                 |             | -     |
|                     | * ** ** **                           |                           | . ] [                             |   |                          |   | 16                  | [ ^ ]       |             | ا ۵۰۰       |   |               | 1              |                 |             |       |
|                     | * ** ** **                           |                           |                                   | i i i i i i i i i i i i i i i i i i i                 |                          |   |                     | - `         |             |             |   | 1             |                |                 |             | -4    |
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| ∫                   | ****                                 | · · · · · ·               | ••••                              | * ** **********************************               |                          | ·· ·  | 4. 1                | ].          | [           |             |   |               |                |                 | 7           |       |
|                     |                                      |                           | ·                                 |   |                          |   |                     |             |             |             |   |               |                |                 | •           |       |
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| MOTE VENEY IN DA    | mages - City density builting and ch |                           |                                   |   | 1-1-1-                   |   | ŀ · }               |             |             |             |   |               | ļļ.            |                 |             | .]    |
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|                     | ,                                    |                           | tece ve                           | by:   |                          | Price Re  | EUR:                | Ū.          | N           |             | d'i Phon                                |               |                |                 |             |       |
| ide pedalon         |                                      | Time:                     |                                   |   |                          | PAX ROOM  |                     | 0           | N           | A           | d For W                                 |               |                | · - · · · · · · |             |       |
| 11/11/              | g                                    | , Data MAR                | lecelved                          | <b>N</b>  |                          |   |                     |             |             |             |   |               | em             | nail            | f fax       |       |
| MOS                 | •                                    | 1/2/2/10                  | <b>D</b> -                        | イリく /   | 1,                       |   |                     |             |             |             |   |               |                |                 |             |       |
| Ivered By: (C       | Ircle One)                           |                           | <b></b>                           | Semple Condition                                      | V<br>Türkinin            |   |                     |             |             |             |   |               |                |                 |             |       |
| pler · UPS · a      | us - Other:                          |                           | <del>-</del> -                    | Cool Intert   | CHECKED<br>CHECKED       | BY:   |                     |             |             |             |   |               |                |                 |             |       |
|                     |                                      | hanges. Please fa         | •                                 | Yes A Yes   | <b>7-/</b> 3             |   |                     |             |             |             |   |               |                |                 |             |       |

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-391-2476.

NMDC P.1/2

#### Date: 3/9/2009 Time: 3:24 PM To: 2009110610 @ 915753914585

NEW MEXICO ONE CALL Locate Request Confirmation

Ticket #:2009110610 Work to Begin Date:

03/11/2009

Reason Code: STANDARD LOCATE

Time:

03:19:00 PM

CALLER INFORMATION

DAVID CARTER HUNGRY HORSE LLC

Excavator Type: CONTRACTOR

Tel.: (575) 441-5264

DIG LOCATION

City:RURAL LEA Subdivision:

Address : To: Street : CMMU #032

Nearest Intersecting Street:

Second Intersecting Street :

Additional Dig Information:
WORK OVER PIT HAUL OFF = FROM MALJAMAR @ HWY 82 &
MALJAMAR RD - S ON MALJAMAR RD 0.6MI - E ON
MESCALERO 6.0MI - N ON HUMMINGBIRD 1.8MI - E 0.1MI
TO LOCATION

>>>SPOT 50FT RADIUS OF WORK OVER PIT

Remarks:

Township: 17s Range: 33E Section 1/4: 17 SW

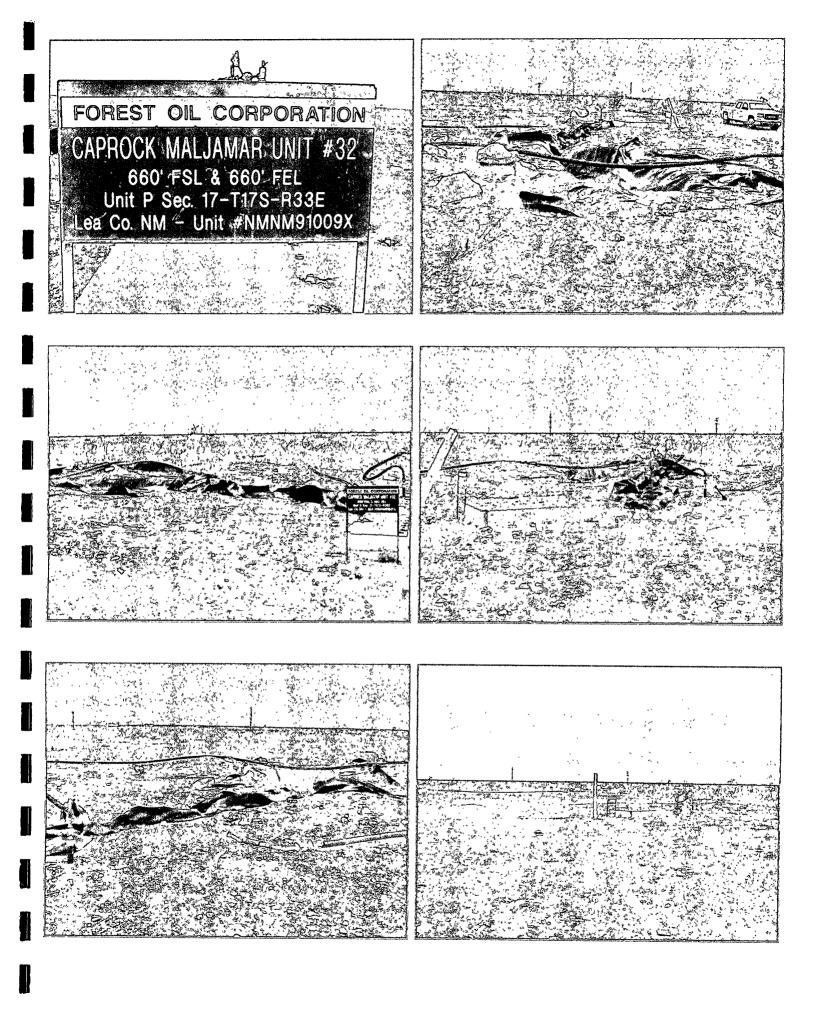
Type of Work: OIL/GAS-NEW WELL LOCATION

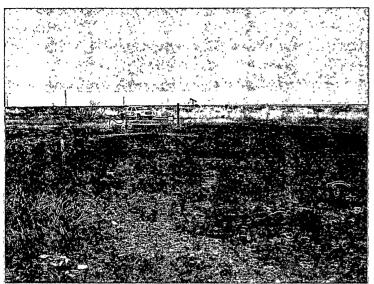
The following utility owners have been notified of your proposed excavation site:
CENTURION PIPELINE, LP
CHEVRON-HOBBS

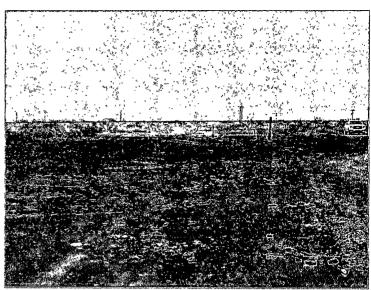
DCP MIDSTREAM - LINUM PLAINS PIPELINE - HOBBS

#### IMPORTANT CONFIRMATION NOTICE

Your fax request has been received and processed. It is your responsibility to review the information provided on this faxback confirmation ticket and ensure it has been correctly interpreted from your request. Notify us immediately of any corrections or errors. Acceptance of this faxback confirmation ticket means you accept responsibility for the accuracy of the information contained in the ticket and you agree to indemnify New Mexico One Call Systems, Inc. of all liability, claims, fees, or damages, including reasonable attorney fees arising from or resulting from the use of the information provided on this confirmation ticket.









#### HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

| Dirt Work | * | On-Site Remediation | * | Soil Testing   | * | Excavation |
|-----------|---|---------------------|---|----------------|---|------------|
| Dire Work |   | On-Site Remediation |   | Juli 1 catilig | · | LACAVALION |

9Mar09

To: John Norris, Norris Cattle Company

**Reference: Pit Closures** 

Dear Mr. Norris,

I am writing this letter on behalf of Forest Oil Corporation to notify you of their intent to close eight workover pits located on your property. All pits are located on active well locations. The pits will be closed utilizing the waste excavation and removal process following NM OCD guidelines. The pits to be closed are listed below.

| Well Name | Legals                     | API            |
|-----------|----------------------------|----------------|
| CMU #39   | UL. B, Sec. 19, T17S, R33E | 30-025-01479   |
| CMU #283  | UL. O, Sec. 28, T17S, R33E | 30-025-34193   |
| CMU #58   | UL. E, Sec. 21, T17S, R33E | 30-025-01509   |
| CMU #93   | UL. L, Sec. 28, T17S, R33E | 30-025-01526   |
| CMU #32   | UL. P, Sec. 17, T17S, R33E | [30-025-01451] |
| CMU #17   | UL. J, Sec. 18, T17S, R33E | 30-025-01460   |
| CMU #3    | UL. D, Sec. 17, T17S, R33E | 30-025-01442   |
| CMU #26   | UL. N, Sec. 18, T17S, R33E | 30-025-01466   |

Should you have any questions, please feel free to contact myself or Mr. Rick Rickman w/Forest Oil Corporation at 575 392 9797.

Sincerely,

Vernon K. Black

HSE

**Hungry Horse Environmental Services** 

Hobbs, NM

John Minis

The center of the work over pit is 45' NW of the well head.

GPS N32 49.775 W103 40.738 is center of pit

Reference the drawing on page 2.

### District I 1625 N. French Dr., Hobbs, NM 8824 E E V Energy Minerals and Natural Resources Department State of New Mexico

Form C-144 July 21, 2008

District III
1301 W. Grand Avenue, Artesia, NM 88210
District IIII
1000 Rio Brazos Road, Aztec, NM 87410
District IV

Department Oil Conservation Division 1220 South St. Francia D.

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For pertanent pits and exceptions submit to the Section Section Section Section Section Section Section Sec

| 1220 S. St. Francis Dr., Santa Fe, NM 87305)   | BSOCD  |   | th St. Francis Dr.<br>Fe, NM 87505  | the Santa Fe Enprovide a copy to District Office.                  | vironmental Bureau office and o the appropriate NMOCD |
|--|--|---|---|--|---|
| <u>Pi</u><br><u>Proposed</u>   | t, Closed-<br>Alternative  | Loop Sys<br>e Method  | stem, Below-Grade<br>Permit or Closure  | e Tank, or<br>Plan Applica   | TNAC  |
| Type of action: P X CI X CI X CI X CI X CI X CI X X CI X X X X                                     | ermit of a pit, osure of a pit, fodification to losure plan on toposed alternation | closed-loop<br>closed-loop<br>an existing partitled<br>ally submitted<br>ative method | system, below-grade tank<br>system, below-grade tank<br>permit<br>for an existing permitted | , or proposed altern<br>, or proposed altern<br>or non-permitted p | ative method ative method it, closed-loop system,     |
| Instructions: Please submit one ap   | plication (Forn  | n C-144) per i  | ndividual pit, closed-loop sv   | stem. helow-orade ta   | nk or alternative record                              |
| Please be advised that approval of this request de environment. Nor does approval relieve the oper |  |   |   |  |   |
| Operator: Forest Oil Corporation   |  |   |   |  |   |
| Salest Salte Sooo Deliver,   | CO   |   |   |  |   |
| Facility or well name: CMU #32   | }  |   |   |  |   |
| API Number: 30-025-01451   | Í  |   | OCD Permit Number   | DI ON  | 274   |
| U/L or Qtr/Qtr P Section 17_ Center of Proposed Design: Latitude                                   | To   | wnship 17S  | Range 33E   | County: LEA_   |   |
|  |  |   | Longitude   |  | NAD: □1927 □ 1983                                     |
| State X 111va  | te 🔲 Tribal Tru  | st or Indian A  | llotment  |  |   |
| V Dia C. L. C. D. C.   |  |   |   |  |   |
| X <u>Pit</u> : Subsection F or G of 19.15.17.11 N  | MAC  |   |   |  |   |
| Temporary: Drilling X Workover   |  |   |   |  |   |
| Permanent Emergency Cavitation   | □ P&A  |   |   |  |   |
| X Lined Unlined Liner type: Thicknes   | s 12m  | il 🗌 LLDP   | E□ HDPE □ PVC □ C   | Other  |   |
| A Sumg-Remnorced   |  |   |   |  |   |
| Liner Seams: X Welded  Factory Oth   | er   | · · · · · · · · · · · · · · · · · · ·   | Volume: 50bbl   | Dimensions: L15'   | x W8' y D5'   |
|  |  |   |   |  |   |
| Closed-loop System: Subsection H of 19   | 9.15.17.11 NM/   | AC  |   |  |   |
| Type of Operation: ☐ P&A ☐ Drilling a ne intent)   | w well 🔲 Wor   | kover or Drill  | ing (Applies to activities wh   | ich require prior appr   | Oval of a permit or pation of                         |
| Drying Pad Above Ground Steel Tank   | rs. □ Hand_off   | Ding [] Out   |   |  | or a permit of notice of                              |
| ☐ Lined ☐ Unlined Liner type: Thickness  |  | mil City  | or  | _  |   |
| ☐ Lined ☐ Unlined Liner type: Thickness Liner Seams: ☐ Welded ☐ Factory ☐ Other                    | er   | ıııı 🗀 FLI  | DLE THDE THOSE  | Other  |   |
| 4  |  |   |   |  |   |
| Below-grade tank: Subsection I of 19.15  | .17.11 NMAC  |   |   |  |   |
| Volume:bbi Type o  | of fluid:  |   |   |  |   |
| Fank Construction material:  |  |   |   |  |   |
| Secondary containment with leak detection  | ☐ Visible si   | lewelle line  | 6:t1:0 1  |  |   |
| ☐ Visible sidewalls and liner ☐ Visible side iner type: Thickness                                  | ewalls only  | Other   | o-inch lift and automatic over  | erflow shut-off  |   |
| uiner type: Thickness  | nil   HDec   |   | Out   |  |   |
| 5.   |  |   | Ouler   |  |   |
| Alternative Method:  |  |   |   |  |   |
| submittal of an exception request is required.   | Exceptions must  | he cubmitted  | to the Court Domestic   |  |   |
| submittal of an exception request is required. I   | - soperons must  | or submitted  | to the Santa Fe Environment   | tal Bureau office for c  | onsideration 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 ton (Paraire 1:61)   |   |
|             | Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, scholarstitution or church)  | ool, hospital,  |
|             | Four foot height, four strands of barbed wire evenly spaced between one and four feet  |   |
| _           | Alternate. Please specify  |   |
|             | Anomate. Flease specify  |   |
|             | 7.   |   |
| •           | 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)   |   |
| Γ           | &  |   |
|             | 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 19.15.3.103 NMAC   |   |
| -           | 9.   |   |
|             | Administrative Approvals and Exceptions:   |   |
| 1           | Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  |   |
|             | I leade theth a dox if one of more of the following is requested if and it is  |   |
| 0 1         | Administrative approval(s): Requests must be submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division that it is a second of the submitted to the appropriate division to the submitted to the submitted to the appropriate division to the submitted |   |
|             | consideration of approval.   | au office for   |
| R           | Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.  |   |
| Ī           | 10.  |   |
| " │ .       | Siting Criteria (regarding permitting): 19.15.17.10 NMAC   |   |
| Ι.          | Instructions: The applicant must demonstrate compliance for an instruction of the compliance for a second s |   |
|             | material are provided below. Requests regarding changes to certain siting criteria below in the application. Recommendations of accommendations of the same accommendation of  | ceptable source   |
| 1           | office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of<br>Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for conideration of   | ropriate district   |
|             | Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to draw-grade tanks associated with a closed-loop system.   | rving nads or   |
| <b>E</b> 1  |  | A see bads of   |
| <b>"</b>    |  |   |
|             | Oround water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.   |   |
| 1           | Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | ☐ Yes ☐ No  |
| ] ,         | Within 300 feet of a continuously flowing watercourse or 200 feet of account.  | ☐ Yes ☐ No  |
| ] ,         | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark)  |   |
| 1           | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  | ☐ Yes ☐ No  |
| 1           | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school hospital institution or about the continuous school hospital institution | ☐ Yes ☐ No  |
| l<br>1      | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.   | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No  |
| 1 0         | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image.   | ☐ Yes ☐ No  |
| 1 20        | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image.   | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA   |
| 1 20        | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 1000 feet from a permanent residence school, hospital, institution, or church in existence at the time of initial application.  Applies to permanent pits)   | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No  |
| V ()        | 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  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  Within 1000 feet from a permanent residence; school, hospital, institution, or church in existence at the time of initial application.  Applies to permanent pits)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image   | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No  |
| V () V () W | 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  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  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  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA   |
| V () V () W | 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  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  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock retering purposes, or within 1000 horizontal feet of one of the proposed site; Aerial photo; Satellite image  | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No  |
| V ()        | 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  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  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock ratering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed initial application.  | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA   |
| V C W W W   | 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  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  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock attering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No  |
| V C W W W   | 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  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  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock ratering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978. Section 3-27-3 as amended.  | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA   |
| W (c)       | 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 within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock ratering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Vithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained from the municipality   | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No  |
| W (c)       | 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  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  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock ratering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained from the municipality  | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No  |
| W (c)       | 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  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  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock ratering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained from the municipality  | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No  |
| W W add     | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  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  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock attering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iW ATERS database search; Visual inspection (certification) of the proposed site  Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance of the word of the well of the well of the municipality; Written approval obtained from the municipality  Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ Yes ☐ No   |
| W W add     | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  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  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock attering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iW ATERS database search; Visual inspection (certification) of the proposed site  Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance of the word of the well of the well of the municipality; Written approval obtained from the municipality  Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  | ☐ Yes ☐ No         ☐ Yes ☐ No         ☐ Yes ☐ No         ☐ NA         ☐ Yes ☐ No         ☐ Yes ☐ No         ☐ Yes ☐ No         ☐ Yes ☐ No |
| W W add     | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to permanent pits)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock attering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iW TTERS database search; USBA water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  ithin the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  within an unstable area.   | ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No ☐ Yes ☐ No   |
| W W W       | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock attering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Witten confirmation or verification from the municipality; Written approval obtained from the municipality  Witten confirmation or verification or map from the NM EMNRD-Mining and Mineral Division ithin an unstable area.  Engineering measures incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM  | Yes   No<br>  Yes   No<br>  Yes   No<br>  NA   No<br>  Yes   No<br>  Yes   No<br>  Yes   No<br>  Yes   No<br>  Yes   No                   |
| W W add     | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 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 Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock attering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site dipted pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained from the municipality (ithin 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site ithin the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division   | ☐ Yes ☐ No         ☐ Yes ☐ No         ☐ Yes ☐ No         ☐ NA         ☐ Yes ☐ No         ☐ Yes ☐ No         ☐ Yes ☐ No         ☐ Yes ☐ No |
| W W W       | 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 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence; school, hospital, institution, or church in existence at the time of initial application. Applies to permanent pits)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock ratering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iW ATERS database search; Visual inspection (certification) of the proposed site within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained from the municipality within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site ithin the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division ithin an unstable area.  Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological ithin a 100-year floodplain.   | Yes   No<br>  Yes   No<br>  Yes   No<br>  NA   No<br>  Yes   No<br>  Yes   No<br>  Yes   No<br>  Yes   No<br>  Yes   No                   |
| W W add     | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  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  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock attering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Witten confirmation or verification from the municipality; Written approval obtained from the municipality  Witten confirmation or verification or map from the NM EMNRD-Mining and Mineral Division ithin an unstable area.  Engineering measures incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM Purpora of Gerl 10 A. It is a substance or incorporated into the design; NM  | Yes   No<br>  Yes   No<br>  Yes   No<br>  NA   No<br>  Yes   No<br>  Yes   No<br>  Yes   No<br>  Yes   No<br>  Yes   No                   |

|         | 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  |
| l       | Previously Approved Design (attach copy of design) API Number: or Permit Number:  |
|         | 12.   |
|         | Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  |
| i       | 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  |
|         | Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 19.15.17.11 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   |
|         | The total Account of the control of |
|         |   |
|         |   |
|         | g. out a sice: turns or rutur-off virus and propose to implement waste removal for closure)   |
|         | 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  |
|         | 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  |
| F       | roposed Closure: 19.15.17.13 NMAC   |
| 1       | nstructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  |
| Ţ       | ype: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System   |
| n P     | ☐ Alternative  roposed Closure Method: ☐ Waste Excavation and Removal   |
|         | roposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)   |
| J       | Un-site Closure Method (Only for temporary pits and closed loop guitage)  |
| 1       |   |
| 15      | Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  |
| , M     | aste Excavation and Removal Closure Plan Chaeklists (10.15.17.12.33)  |
| cl<br>I | osure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures, beard wark in the box, that the documents are attached.  |
|         | Confirmation Sampling Plan (if applicable) a based upon the appropriate requirements of 19.15.17.13 NMAC  |
| 5       | Disposal Facility Name and Permit Number (for liquid to 1)  |
| 1       |   |
| _       | 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 G of 19.15.17.13 NMAC   |

| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.1)   | 3 D NMAC)  |
|---|--|
| Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment facilities are required.  | if more than two   |
| Disposal Facility Name:  Disposal Facility Name:  Disposal Facility Name:   |  |
| Disposal Facility Name:   |  |
| Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future s  | ervice and operations  |
| Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NM Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC   | AC   |
| 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 so provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate di considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justine demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.   | urce material are<br>strict office or may b<br>stifications and/or |
| Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | Yes No   |
| Ground water is between 50 and 100 feet below the bottom of the buried waste  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | ☐ NA☐ Yes☐ No  |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | ☐ NA<br>☐ Yes ☐ No   |
| 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  | ☐ NA☐ 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site   | ☐ Yes ☐ No   |
| 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.  Within 500 5 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | ☐ Yes ☐ No   |
| - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed in  | ☐ Yes ☐ No   |
| Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division   | ☐ Yes ☐ No   |
| Within an unstable area.  - 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 FEMA map   | ☐ Yes ☐ No   |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan Siting Criteria Compliant D. Siting Criteria Compliant D.   | m Diagos is 1º   |
| 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 F of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 19.15.17.13 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 Subsection F of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | 5.17.11 NMAC   |

| 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): Title:   |                          |
|--|--------------------------|
| Title:   |                          |
|  |                          |
| Signature: Date:   |                          |
| e-mail address: Telephone:   |                          |
| 20.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)   |                          |
| OCD Representative Signature:  |                          |
| OCD Representative Signature:  Approval Date: 3 · 26 · 0   | 29                       |
| FMVIRONMENTAL ENGINEE PCD Permit Number: F1-DDY  | 4                        |
| Closure Report (required within 60 days of closure completion): Subsection K of 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not completed to the form until an approved closure plan has been obtained and the closure activities have been completed. | losure repo<br>dete this |
| X Closure Completion Date 23Mar09  |                          |
| Closure Method:  X Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-loop sys  |                          |
| Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bin   | Only:                    |
| two facilities were utilized. Use attachmen  | t if more the            |
| Disposal Facility Name:  |                          |
| Disposal Facility Name:  |                          |
| Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operation  Yes (If yes, please demonstrate compliance to the items below)  No   | ıs?                      |
| Required for impacted areas which will not be used for future service and operations:  Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation  |                          |
| Re-vegetation Application Rates and Seeding Technique  |                          |
| Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, X Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  | by a check               |
| X Plot Plan (for on-site closures and temporary pits) X Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) X Disposal Facility Name and Posserie No.   |                          |
| X Soil Backfilling and Cover Installation  |                          |
| X Re-vegetation Application Rates and Seeding Technique  |                          |
| On-site Closure Location Letitude  |                          |
| Longitude NAD: 1927 198  | 3                        |
| perator Closure Certification:   |                          |
| hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowled lief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.   | ge and                   |
| Title: H.S.E.  |                          |
| gnature: Kick Kidlinine Date: 3-25-09  |                          |
|  |                          |