Forest Oil Corporation Pit Closure Summary

CMU #3

API 30-025-01442

Lea County, NM

RECEIVED

APR 02 2009

HOBBSOCD

UL. D, Sec. 17, T17S, R33E /

GPS 32 50.403 W103 41.519

Start date: 13Mar09

Finish date: 26Mar09

WORKOUER PIT

FINAL CLOSURE APPROVAL

Prepared By: Vernon K. Black_{ENVIRONMENTAL} ENGINEER

Environmental Technician

5.19:09

Hungry Horse Environmental, LLC

PO Box 1058

Hobbs, NM 88240

(575)-393-3386

P1-00975



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- 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

1.0 Introduction

This report addresses the pit (work over) closure at Forest Oil Corporation's CMU #3 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.

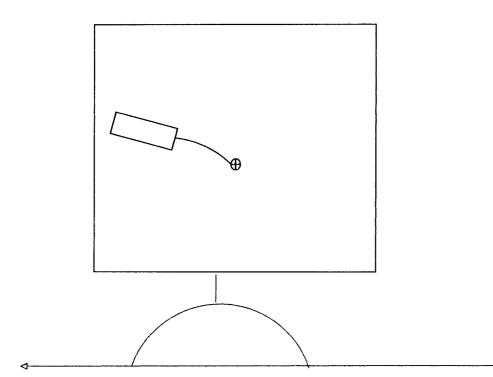
2.0 Area Description

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 southeast of the intersection of Mescalero and Humming Bird Roads.

3.0 Pit Closure Process

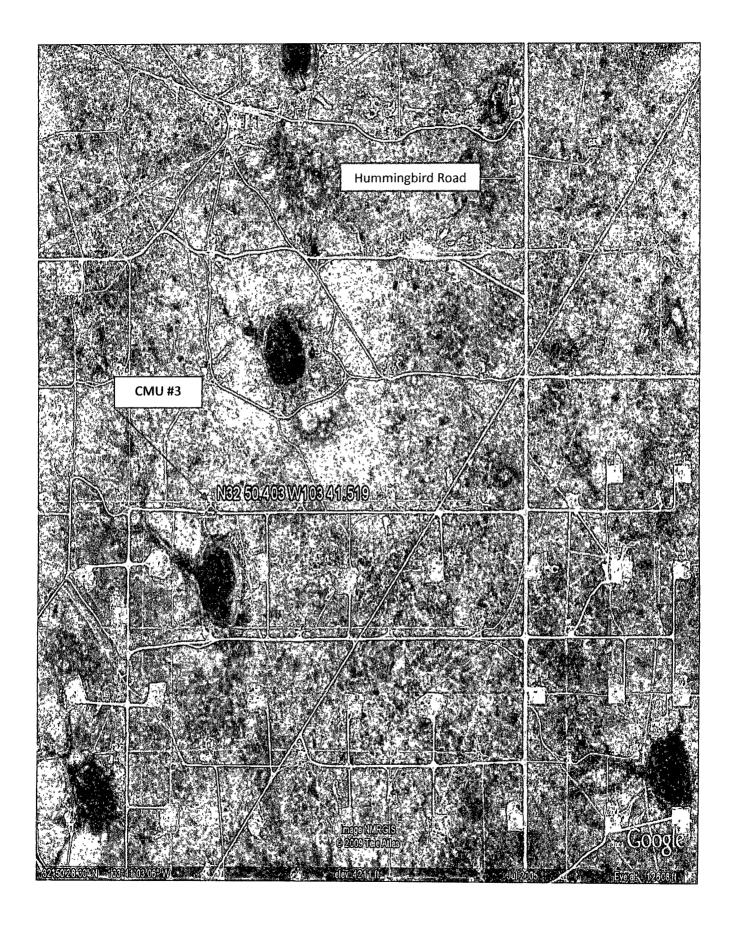
This pit closure was accomplished using the Waste Excavation and Removal Process. The work over pit was 15'L x 8'W X 4'D and was lined with a synthetic liner. The pit contents, along with the liner, and material from underneath the liner as well as the pit walls were excavated and removed. The final depth of the excavation was five 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 #3 Center of Pit is 65' W of Wellhead



Hummingbird Road ----

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 #3

Project Location: LEA COUNTY, NM

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

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
H17082-1 COMPOSITE 5'BGS	03/20/09	03/20/09	03/20/09	03/20/09
JOHN OUTE JEGS	<0.050	<0.050	<0.050	<0.300
Quality Control	0.049	0.050	0.000	
True Value QC	0 050	0.050	0.049	0 149
% Recovery	98.0	100	0.050 98.0	0.150
Relative Percent Difference	18	3.4	3.4	99.3 4.6

METHOD: EPA SW-846 8021B

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

13/24/09



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 #3

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

Project Location: LEA COUNTY, NM

Sample Condition: COOL & INTACT Sample Received By. AB

Analyzed By AB/TR

418 1

GRO DRO TOTAL TPH

CI*

LAB NUMBER SAMPLE ID

(C6-C10) (>C10-C28) (mg/kg) (mg/kg)

(mg/kg)

(mg/kg)

ANALYSIS DATE	03/20/09	03/20/09	03/20/09	03/19/08
H17082-1 COMPOSITE 5' BGS	<10.0			
		100	234	544
				_
				 '
Quality Control		· · ·		
True Make 00	473	535	319	500
True Value QC	500	500	300	500
% Recovery	94 6	107	106	
Relative Percent Difference	0.7			100
	U. 1	2.9	2.7	< 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.

03/1/08

H17082 TPH2CL HHE



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

HUNGRY HOUSE Environ	entral Sanguera	BILL TO	T	AMALVEIO	Pageof	
Company Name: Hungry Herse Environment Manager: Vernen K. Black	FULL DE MICES	P.O. #:		ANALYSI8	REQUEST	-
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HODES Blate: NVM Z	p: 88241	Attn:				
hone #: 575-393-3386 Fax #: 575-	341-4585	Addrese:				
roject 8:	Foresi DiL	City:				-
		State: Zip:				
empler Name: Vernon K. Black		Phone #:				
empler Name: Verney K. Black		Fax #:				
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17082+ Composite 5'BGS C	CROWTAN GROUNDY WASTEWN SOIL OIL	DATE TIME	5 10 Sto.			
17082-1 Compasito 5'RIS'	± 12 ₹ ½ 'Q. 4	S. J. W. P. A. I				L
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NOTE: Liberty and Compagne Condenses behavily and cleare rectable remody for any eight	white station based it courses as to					
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Ivered Bv: (Circle One) Temp	Sample Condition Cool Intact (A Yes) Yes	CHECKED BY:				

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Date: 3/9/2009 Time: 3:28 PM To: 2009110613 @ 915753914585

NMOC P.1/2

NEW MEXICO ONE CALL Locate Request Confirmation

Ticket #:2009110613 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 #003

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 2.9MI - L 1.4MI ON MAIN RD - E BY CATTLE
PINS & UP HILL XING CATTLEGUARD - L 0.7MI - E
0.2MI TO LOCATION ON L

Remarks: >>>SPOT 50FT RADIUS OF WORK OVER PIT

Township: 17S Range: 33E Section 1/4: 17 NW

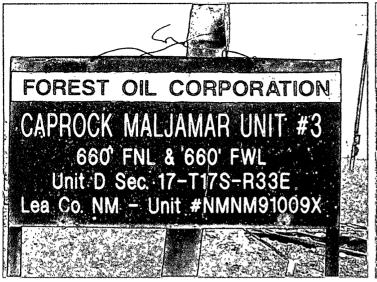
Type of Work: OIL/GAS-NEW WELL LOCATION

The following utility owners have been notified of your proposed excavation site:
CONOCOPHILLIPS - MALJAMAR PROD
DCP MIDSTREAM - LINUM
PLAINS PIPELINE - HOBBS

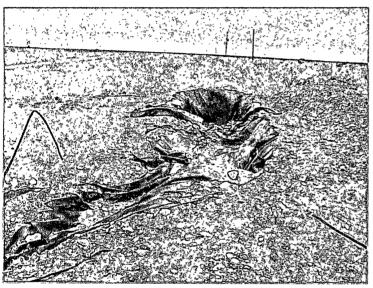
IMPORTANT CONFIRMATION NOTICE

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 on this confirmation ticket.

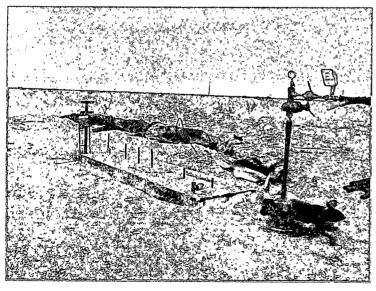
New Mexico Law requires you to wait two working days from the date and

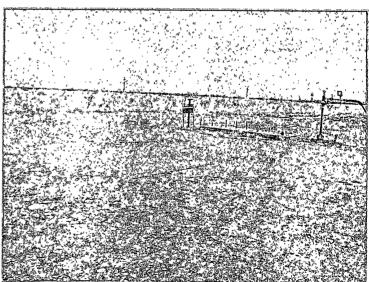


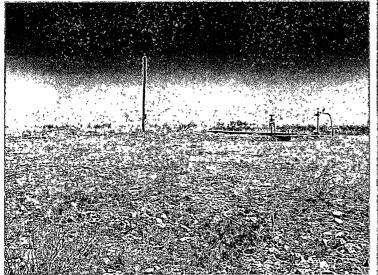


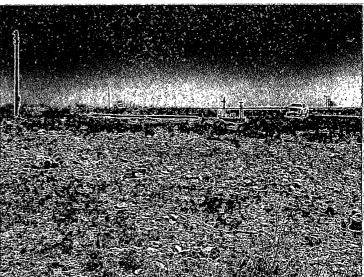


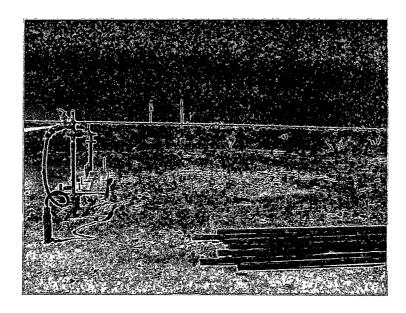












HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work * On-Site Remediation * Soil Testing * Excavation

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 Mysis

The center of the work over pit is 65' west of the well head.

GPS N32 50.403 W103 41.519 is center of pit

Reference the drawing on page 2.

2istrict I
625 N. French Dr., Hobbs, NM 88240
2istrict II
301 W. Grand Avenue, Artesia, NM 88210
2istrict III
000 Rio Brazos Road, Aztec, NM 87410
2istrict IV
220 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

For temporary pits, closed-loop systems, and below-grade tarks, submit to the appropriate NMOCD District Conference of the Santa Fe Environmental Appau office and provide a copy to the appropriate of the Santa Fe Environmental Appau office and provide a copy to the appropriate of the CDD District Office.

D., . . .

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit
X Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
ase 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 vironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinary.
Operator: Forest Oil Corporation OGRID #:8041
Address: 707 17th St Suite 3600 Denver Co
acility or well name: CMU #3
PI Number: 30-025-01442 OCD Permit Number: P1 - 00975
J/L or Qtr/Qtr D Section 17 Township 17S Range 33E County: Lea
enter of Proposed Design: Latitude Longitude NAD: \[\begin{array}{c} 1927 \begin{array}{c} 198 \end{array}
urface Owner: Federal State X Private Tribal Trust or Indian Allotment
Closed-loop System: Subsection H of 19.15.17.11 NMAC Superior of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice stent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Other Description P&C Other Closed-loop System: Subsection H of 19.15.17.11 NMAC Closed-loop System: Subsection H of 19.15.17.11 NMAC Drying Pad Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice stent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Closed-loop System: Subsection H of 19.15.17.11 NMAC Drying Pad Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice stent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Closed-loop System: Subsection H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice stent)
Below-grade tank: Subsection I of 19.15.17.11 NMAC olume:bbl Type of fluid: ank Construction material: Secondary containment with leak detection
Alternative Method: Ibmittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approva

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	-1 h
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, schonstitution or church)	oi, nospitai,
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)	
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	
). Administrative Approvals and Exceptions:	
ustifications 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: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bure	an office for
consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
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 act naterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the applice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to calcove grade tanks associated with a closed-loop system.	propriate district of approval.
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 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
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 ☐ NA
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	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock vatering 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
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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ 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
Within the area overlying a subsurface mine. - 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

this was an expension of

0..... 3 ... 5

Sec. 113

: 'emporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC 'nstructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
teched
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:
2.
Closed-loop Systems 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
instructions: Each of the following dems must be attached to the application. Freuse indicate, by a check mark in the box, that the abcuments are attached.
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 19.15.17.12 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
Ind 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan API Number:
bove ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
nstructions: 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
Quality Control/Quality Assurance Constitution and Instantation Final 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 ₂ 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
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 X Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: X 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the
Elosure plan. Please indicate, by a check mark in the box, that the documents are attached.
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
 X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC
• • • •

Naste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Constructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings acilities are required.	<u>Only</u> : (19.15.17.13.D NMAC) Use attachment if more than two	
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name: Disposal Facility Permit Number	er:	
Vill any of the proposed closed-loop system operations and associated activities occur on or in areas that will not b Yes (If yes, please provide the information below) No	e used for future service 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 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	of 19.15.17.13 NMAC	
7. iting 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. Recommendation rovided below. Requests regarding changes to certain siting criteria may require administrative approval from considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration lemonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	the appropriate district office or may be	
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 ☐ NA	
Fround 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	☐ Yes ☐ No ☐ NA	
Ground water is more than 100 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 ☐ NA	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, ake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	, sinkhole, or playa Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	al application. Yes No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for dovatering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed signal.	f initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a mudopted 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	ne proposed site	
Within the area overlying a subsurface mine. - 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; Society; Topographic map 	NM Geological Yes No	
Within a 100-year floodplain FEMA map	☐ Yes ☐ No	
18. Dn-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attact	hed 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 NMAG Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NG Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate 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 NM	C MAC 5.17.11 NMAC e requirements of 19.15.17.11 NMAC 0.15.17.13 NMAC MAC	
 □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site cl □ 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 I of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC 	osure standards cannot be achieved)	

)perator Application Certification: I hereby certify that the information submitted with 	h this annlication is true accu	irate and complete to the	best of my knowledge and belief
	n uns approauon is uuc, acce	Title: HSE	best of my knowledge and benefit
Name (Print): Rick Rickman			
ignature: Ricken	ar .	Date:	-12-09
:-mail address:rdrickman@forestoil.com		Telephone: 575	SCONED TO STATE OF THE STATE OF
a. DCD Approval: Permit Application (includi	ng closure plan) 🖳 Closure	Plan (only) 🔲 🔅 🗘	onditions (see attachment)
DCD Approval: Permit Application (includication CD Representative Signature:	ohuson		Proproval Date: 3 17.09
	ENTAL ENGINEER	OCD Permit Numbe	
it. Closure Report (required within 60 days of closure Report (required within 60 days of closure Instructions: Operators are required to obtain at the closure report is required to be submitted to section of the form until an approved closure plant	n approved closure plan prion the division within 60 days oj	r to implementing any clo f the completion of the clo	sure activities and submitting the closure report. osure activities. Please do not complete this en completed.
2			
Closure Method: Waste Excavation and Removal On-Site If different from approved plan, please explain		native Closure Method [Waste Removal (Closed-loop systems only)
is. Closure Report Regarding Waste Removal Clo	sure For Closed-loop System	ns That Utilize Above G	round Steel Tanks or Haul-off Bins Only:
Instructions: Please indentify the facility or faci			tings were disposed. Use attachment if more than
wo facilities were utilized. Disposal Facility Name:		Disposal Facility Perr	nit Number:
Disposal Facility Name:		Disposal Facility Perr	
Were the closed-loop system operations and associ			
Yes (If yes, please demonstrate compliance			
Required for impacted areas which will not be use Site Reclamation (Photo Documentation)	d for future service and opera	ations:	
Soil Backfilling and Cover Installation	m 1 *		
Re-vegetation Application Rates and Seedin	ng Technique	· · · · · · · · · · · · · · · · · · ·	
A. Closure Report Attachment Checklist: Instruc		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			
Proof of Deed Notice (required for on-site	losure)		
Plot Plan (for on-site closures and temporar	y pits)		1
☐ Confirmation Sampling Analytical Results ☐ Waste Material Sampling Analytical Result		:)	,
☐ Disposal Facility Name and Permit Number		,	
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seedi	na Technique		
Site Reclamation (Photo Documentation)	ig recinique		
On-site Closure Location: Latitude	Long	gitude	NAD: 1927 1983
25. Operator Closure Certification: I hereby certify that the information and attachme belief. I also certify that the closure complies with			
Name (Print):		Title:	
Signature:		Date:	
e-mail address:		Telephone:	

HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work **On-Site Remediation** Soil Testing Excavation 12Mar09 TO: Larry Johnson, NM OCD Dist 1 REFERENCE: Work Plan for Closure of a Temporary Pit **OPERATOR: Forest Oil Corporation LOCATION: CMU #3** API: 30-025-01442 LEGALS: UL. D, Sec. 17, T17S, R33E GPS: N32 50.403 W103 41.519 **DEPTH to GROUND WATER: >150'** Protocols and Procedures: The closure of this work over pit will be accomplished by using the waste excavation and removal method. All contents of the pit to include the synthetic liner will be removed and disposed of at a division-approved facility. Confirmation Sampling: A composite sample of the excavated area will be obtained and analyzed to determine the levels of Benzene, BTEX, TPH, GRO/DRO, and chlorides. All analysis will be conducted using NM OCD approved analysis methods. Disposal Facility: Lea Land SWM 131401 Soil backfill and Cover Design Specifications: The excavated area will be backfilled to the existing grade of the location using the stockpiled material that came from the original pit excavation and/or from a local source should more be required. Re-vegetation Plan: Due to the affected area being on an active well location, no re-vegetation will be conducted. Site Reclamation Plan: The excavated area will be reclaimed in a manner to match the existing grade of the location. Submitted By: Vernon K. Black, Hungry Horse Environmental Services Signature: UMBA

ENVIRONMENTAL ENGINEER
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Date: 12 May 09