District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 R10 Brazos Road, Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or
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	
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the advised that approval of this request does not relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.  To operator: Forest Oil Corporation	X Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the notroment. Not does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.  Operator: Forest Oil Corporation	
movironment. Nor doss approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.  OGRID #:8041  Address: 3504 NW County Road Hobbs, NM 88240  Facility or well name: POC State B #11  API Number: 30-015-36255	······································
OgRID #:8041 Operator: Forcest Oil Corporation	environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Address: 3504 NW County Road Hobbs, NM 88249   Facility or well name: FOC State B #11   API Number: 30-015-36255   OCD Permit Number:	
Facility or well name: FOC State B #11  API Number: 30-015-36255	Operator: Forest Oil Corporation OGRID #:8041
API Number: 30-015-36255	Address: 3504 NW County Road Hobbs, NM 88240
API Number: 30-015-36255	Facility or well name: FOC State B #11
Center of Proposed Design: Latitude	API Number: 30-015-36255 OCD Permit Number:
Surface Owner: X Federal  State  Private  Tribal Trust or Indian Allotment    Pit: Subsection F or G of 19.15.17.11 NMAC	■ U/L or Qtr/Qtr O Section 16 Township 17S Range 31E County: Eddy
Pit: Subsection F or G of 19.15.17.11 NMAC     Temporary:   Drilling X Workover     Permanent   Emergency   Cavitation   P&A     X Lined   Unlined   Liner type: Thickness 12 mil   LLDPE   HDPE   PVC   Other     X String-Reinforced     Liner Seams:   Welded   Factory   Other   Stitched   Volume: 5000   bbl   Dimensions: L100' x W75' x D4'     Closed-loop System: Subsection H of 19.15.17.11 NMAC     Type of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)     Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined Liner type: Thickness mil   LLDPE   HDPE   PVC   Other     Liner Seams:   Welded   Factory   Other     Relow-grade tank: Subsection I of 19.15.17.11 NMAC     Volume:   bbl Type of fluid:     Tank Construction material:     Secondary containment with leak detection   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off     Visible sidewalls and liner   Visible sidewalls only   Other     Liner type: Thickness mil   HDPE   PVC   Other     Construction material:   Secondary containment with leak detection   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off     Visible sidewalls and liner   Visible sidewalls only   Other	Center of Proposed Design: LatitudeLongitudeNAD: \[ \bigcap 1927 \bigcap 1983
Pit: Subsection F or G of 19.15.17.11 NMAC   Temporary:   Drilling X Workover   Permanent   Emergency   Cavitation   P&A     X Lined   Unlined Liner type: Thickness 12mil   LLDPE   HDPE   PVC   Other     X String-Reinforced   Liner Seams:   Welded   Factory   Other Stitched   Volume: 5000   bbl Dimensions: L100'_x W75'_x D4'     X Closed-loop System: Subsection H of 19.15.17.11 NMAC     Type of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     Liner Seams:   Welded   Factory   Other     A Below-grade tank: Subsection I of 19.15.17.11 NMAC     Volume:   bbl Type of fluid:     Tank Construction material:   Secondary containment with leak detection   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off     Visible sidewalls and liner   Visible sidewalls only   Other     Liner type: Thickness   mil   HDPE   PVC   Other     Construction material:   Secondary containment with leak detection   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off     Visible sidewalls and liner   Visible sidewalls only   Other     Liner type: Thickness   mil   HDPE   PVC   Other	Surface Owner: X Federal  State  Private  Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC   Temporary:   Drilling X Workover   Permanent   Emergency   Cavitation   P&A     X Lined   Unlined Liner type: Thickness 12mil   LLDPE   HDPE   PVC   Other     X String-Reinforced   Liner Seams:   Welded   Factory   Other Stitched   Volume: 5000   bbl Dimensions: L100'_x W75'_x D4'     X Closed-loop System: Subsection H of 19.15.17.11 NMAC     Type of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     Liner Seams:   Welded   Factory   Other     A Below-grade tank: Subsection I of 19.15.17.11 NMAC     Volume:   bbl Type of fluid:     Tank Construction material:   Secondary containment with leak detection   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off     Visible sidewalls and liner   Visible sidewalls only   Other     Liner type: Thickness   mil   HDPE   PVC   Other     Construction material:   Secondary containment with leak detection   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off     Visible sidewalls and liner   Visible sidewalls only   Other     Liner type: Thickness   mil   HDPE   PVC   Other	
Temporary:   Drilling X Workover   Permanent   Emergency   Cavitation   P&A     X Lined   Unlined   Liner type: Thickness 12mil   LLDPE   HDPE   PVC   Other     X String-Reinforced   Liner Seams:   Welded   Factory   Other   Stitched   Volume: 5000   bbl   Dimensions: L100'_x W75'_x D4'	
Permanent   Emergency   Cavitation   P&A     X Lined   Unlined Liner type: Thickness 12	<del></del>
X Lined  Unlined Liner type: Thickness 12mil  LLDPE  HDPE  PVC  Other   X String-Reinforced  Liner Seams:  Welded  Factory  Other Stitched  Volume: 5000bbl  Dimensions: L100'_x W75'x D4'    Closed-loop System: Subsection H of 19.15.17.11 NMAC   Type of Operation:  P&A  Drilling a new well  Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)     Drying Pad	. , —
X String-Reinforced  Liner Seams:   Welded   Factory   Other Stitched   Volume: 5000   bbl Dimensions: L100' x W75' x D4'      Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)    Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     Liner Seams:   Welded   Factory   Other	
Liner Seams:	
Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation:	
Type of Operation:	Liner Seams: Weided Factory Other Stitched Volume: 5000 bbi Dimensions: L100 x W/5 x D4
Type of Operation:	3.
intent)  Drying Pad	
Drying Pad	
Lined Unlined Liner type: Thickness mil	· · · · · · · · · · · · · · · · · · ·
Liner Seams:	
Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume:	
Volume:bbl Type of fluid:  Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other  Liner type: Thickness mil HDPE PVC Other  Alternative Method:	Dinor Scalins. [5] Wester [6] Tables [7] [6] Carlot
Volume:bbl Type of fluid:  Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other  Liner type: Thickness mil HDPE PVC Other  Alternative Method:	4.
Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other  Liner type: Thicknessmil HDPE PVC Other  Alternative Method:	
Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off ☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other  Liner type: Thicknessmil ☐ HDPE ☐ PVC ☐ Other  S. ☐ Alternative Method:	
□ Visible sidewalls and liner □ Visible sidewalls only □ Other   Liner type: Thickness mil □ HDPE □ PVC □ Other    S.  Alternative Method:	
Liner type: Thicknessmil	
s.  Alternative Method:	
Alternative Method:	Liner type: Thicknessmil
	5.
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	Alternative Method:
	Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school,	hospital,
institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
[&	
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:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval.
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 lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (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 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 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

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: St. Instructions: Each of the following items must be attached to the application. Please indicate, by a check m	ubsection B of 19.15.17.9 NMAC wark in the box, that the documents are
attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsectio Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NM 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	Subsection B of 19.15.17.9 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirem and 19.15.17.13 NMAC	ents of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Peri	mit Number:
12.	
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 m	ark in the box, that the documents are
attached.	
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph Siting Criteria Compliance Demonstrations (only for on-site closure) - 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	rements of 19.15.17.10 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requiren	nents of Subsection C of 19.15.17.9 NMAC
and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design)  API Number:	
Previously Approved Operating and Maintenance Plan API Number: (Approved Operating and Maintenance Plan Previously Approved Operating Operating Approved Operating Operating Op	olies only to closed-loop system that use
above 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  Instructions: Each of the following items must be attached to the application. Please indicate, by a check m	nark 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 NN	
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 N	MAC
Climatological Factors Assessment	
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	138440
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.1	INMAC
<ul> <li>Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.1</li> </ul>	7 11 NIMAC
Quality Control/Quality Assurance Construction and Installation Plan	7.11 NWAC
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 19.15.17.12 NATACE	MAC
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	5.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure	•
Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grad ☐ Alternative	e Tank  Closed-loop System
Proposed Closure Method: Waste Excavation and Removal	
Waste Removal (Closed-loop systems only)	
On-site Closure Method (Only for temporary pits and closed-loop systems)	
In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe En	vironmental Rureau for consideration)
15.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the j	following items must be attached to the
closure plan. Please indicate, by a check mark in the box, that the documents are attached.	
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F o	f 19.15.17.13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection I	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	

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if the structions is the structure of the disposal of liquids.	O NMAC) more than two							
facilities are required.								
Disposal Facility Name: Disposal Facility Permit Number:								
Disposal Facility Name: Disposal Facility Permit Number:								
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) \( \subseteq \) No	vice 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 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	С							
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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict 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							
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	☐ 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, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
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								
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							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection 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.  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 cannowly 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 G of 19.15.17.13 NMAC	15.17.11 NMAC							

19.	
Operator Application Certification:	
I hereby certify that the information submitted with this application is true.	accurate and complete to the best of my knowledge and belief.
Name (Print):	Title:
Signature:	Date:
Signature.	Dute.
e-mail address:	Telephone:
<b>OCD Approval:</b> Permit Application (including closure plan) Clo	osure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subs	section 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.
The closure report is required to be submitted to the division within 60 da	ays of the completion of the closure activities. Please do not complete this
section of the form until an approved closure plan has been obtained and	d the closure activities have been completed.
	X Closure Completion Date:2July09
722.	
Closure Method:	
	Alternative Closure Method
☐ If different from approved plan, please explain.	
23.	
	ystems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
	ds, drilling fluids and drill cuttings were disposed. Use attachment if more than
two facilities were utilized.	Discoul Facility Description
L Disposal Facility Name:	
Disposal Facility Name:	
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)  Required for impacted areas which will not be used for future service and the service and the service areas which will not be used for future service.	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)  Required for impacted areas which will not be used for future service and a Site Reclamation (Photo Documentation)	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)  Required for impacted areas which will not be used for future service and of the impact of the items below.	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)  Required for impacted areas which will not be used for future service and a site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No operations:
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)  Required for impacted areas which will not be used for future service and a site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  24.  Closure Report Attachment Checklist: Instructions: Each of the follows	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)  Required for impacted areas which will not be used for future service and a site of the service and site of the service and site of the service and service of the service of	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No operations:
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)  Required for impacted areas which will not be used for future service and a site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  24.  Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached.  X Proof of Closure Notice (surface owner and division)	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No operations:
Disposal Facility Name:  Were the closed-loop system operations and associated activities performed  Yes (If yes, please demonstrate compliance to the items below)  Required for impacted areas which will not be used for future service and a site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  24.  Closure Report Attachment Checklist: Instructions: Each of the followmark in the box, that the documents are attached.  X Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  X Plot Plan (for on-site closures and temporary pits)	Disposal Facility Permit Number: d on or in areas that will not be used for future service and operations?  No operations:
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Accepted for record NMOCD

DEC 0 9 2009

## Forest Oil Corporation Pit Closure Summary

**FOC State B No. 11** 

API 30-015-36255

Eddy County, NM

UL. O, Sec. 16, T17S, R31E

GPS N32 49.669 W103 52.235

Start date: 2Jun09

Finish date: 2July09

### Prepared By: Vernon K. Black

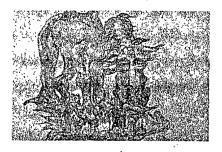
**Environmental Technician** 

Hungry Horse Environmental, LLC

PO Box 1058.

Hobbs, NM 88240

(575)-393-3386



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### **Table of Contents**

1.0 Introduction	pg. 1
2.0 Area Description	pg. 1
<b>3.0</b> Pit Closure Process	pg. 1
Diagram of Reserve Pit	pg. 2

### **Attachments**

Attachment 1 – Overhead View
Attachment 2 – Lab Analytical & Chain of Custody
Attachment 3 – One call
Attachment 4 – Photos of Progress
Attachment 5 – Proof of Closure Notice
Attachment 6 – Plat Plan
Attachment 7 – C 141 (Initial/Final)
Attachment 8 – C 144 w/ Closure Plan & Approval

Attachment 9 - C 144 Closure of Pit

#### 1.0 Introduction

This report addresses the drilling reserve pit closure at Forest Oil Corporation's FOC B State #11 well. Analytical results, photos of the project, an overhead map, NM OCD required documents, and a general scope of the work conducted are included in this document as attachments. The project manager for Hungry Horse Environmental Services was Shanon Rusk.

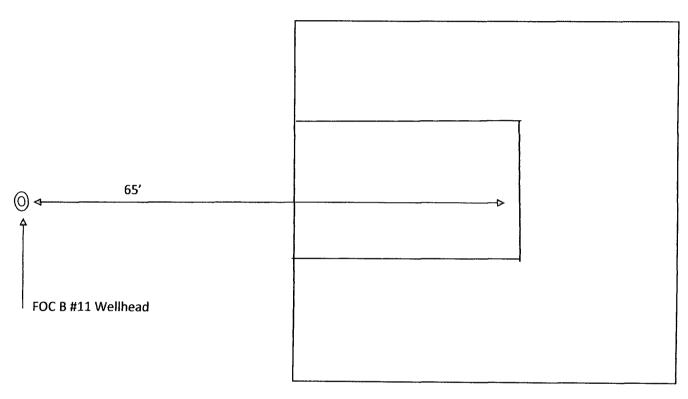
#### 2.0 Area Description

This geographical area consists primarily of sandy topsoil with gentle rolling sand dunes. Vegetation present in this area is mesquite, yucca plants, and a variety of range grass and weeds. The depth to the ground water is >200' based on the Eddy County Depth to Ground Water Map. There are no known water wells or surface bodies of water within a half of a mile of this location. This location is in rural Eddy County, NM approximately six miles west of Maljamar north of Highway 82.

#### 3.0 Pit Closure Process

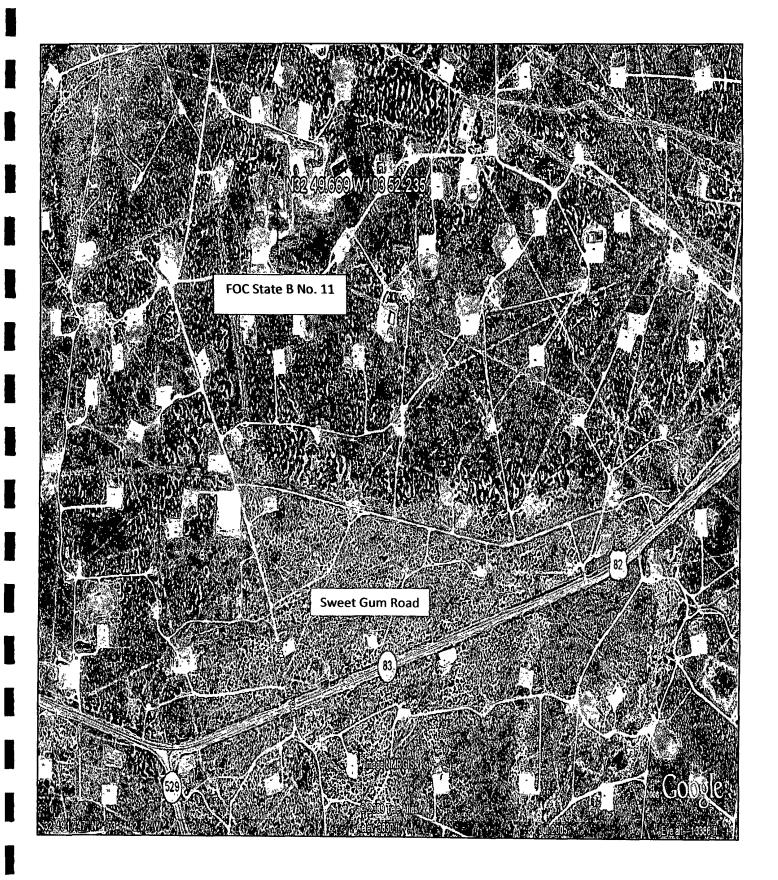
This pit closure was accomplished using the Waste Excavation and Removal Process. The drilling reserve pit was 100'L x 75'W X 6'D and was lined with a synthetic liner. The pit contents, along with the liner, and two feet of material from underneath the liner were excavated and removed. All material removed was disposed of at CRI (NM OCD Order R9166). A five-point composite soil sample was obtained from the pit and taken to Cardinal Labs for analysis. Lab results indicated that TPH, GRO/DRO, Benzene, and BTEX were all well below the limits set forth by NM OCD, however the chloride level was elevated. Further excavation continued with soil samples being obtained and field tested at various intervals. At 12' BGS another 5 point composite soil sample was obtained and analyzed. Lab results indicated a chloride level <1000ppm. Mike Bratcher, NM OCD, was notified and requested delineation continue to determine the depth where the chloride level dropped to <250ppm. A sample was obtained and analyzed from 14'BGS. Lab results indicated an acceptable chloride level. Mike Bratcher was notified of the results and advised that pit closure could continue as per the approved work plan. The final depth of the excavation was 12'. The excavated area was backfilled using clean material from a nearby source, contoured to match the surrounding terrain and re-seeded.

$$W \stackrel{N}{\swarrow} E$$



100' x 75' x 6'

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: 06/05/09 Reporting Date: 06/09/09

Project Owner: FOREST OIL

Sample Type: SOIL

Sampling Date: 06/04/09

Sample Condition: COOL & INTACT @ 6°C

Project Name: FOC STATE B NO. 11

Sample Received By: ML

Project Location: EDDY COUNTY, NM

Analyzed By: AB

(mg/kg)

418.1

**GRO** DRO

(mg/kg)

TOTAL

 $(C_6-C_{10})$  (>C<sub>10</sub>-C<sub>28</sub>)

TPH

CI\* (mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS [	DATE	06/06/09	06/06/09	06/08/09	06/05/09
H17573-1	5PT COMPOSITE 8' BGS	<10.0	68.3	<100	14,000
	RESERVE PIT				
Quality Cont	rol	490	451	321	500
True Value C		500	500	300	500
% Recovery		98.0	90.2	107	100
Relative Per	cent Difference	1.8	4.0	29	2.0

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. Reported on wet weight. Not accredited through NELAP for GRO/DRO, 418 1, and Chloride.

Chemist

#### H17573 TPH2CL HHE



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: 06/05/09

Reporting Date: 06/09/09

Project Owner: FOREST OIL

Project Name: FOC STATE B NO. 11 Project Location: EDDY COUNTY, NM Sampling Date: 06/04/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: ML

Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	<b>XYLENES</b>
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS D	ATE	06/08/09	06/08/09	06/08/09	06/08/09
H17573-1	5PT COMPOSITE 8' BGS	<0.050	<0.050	<0.050	<0.300
	RESERVE PIT				
0 14 0		0.050	0.050	0.040	0.440
Quality Contr	rol	0.058	0.053	0.049	0.148
True Value C	QC	0.050	0.050	0.050	0.150
% Recovery	10 Maria and 10 Ma	116	106	98.0	98.7
Relative Per	cent Difference	3.7	9.7	8.5	5.8

METHOD: EPA SW-846 8021B

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



101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476													Page		1				
Company Name: Hungry Horse Environmental Services						LL TO		ANALYSIS REQUEST											
Project Manage	ject Manager: Vernon K, Black					P.O. #:													1
				Company: SAME															
City:	Hobbs	State: NM	Zip: 8	8241	Attn:	and the state of t			İ										
Phone #: 575	393-3386	Fax #: 575	341-	4585	Address:													1	
Project #:		Project Owner	For	estal	City:	erteile de secret virolen.										)			1
Project Name:	Foc State n: Eddy Cor Vernon K	e B Noll	. س. د		State:	Zip:							}						
Project Locatio	n: Eddy Car	At Y /VM		to a service of the second of the service of	Phone #:	et han american har har han a garage per a series													
Sampler Name:	Vernon K	. Black			Fax #:														
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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: 06/23/09 Reporting Date: 06/24/09

Project Owner: FOREST OIL
Project Name: FOC STATE B-1

Project Location: EDDY COUNTY, NM

Analysis Date: 06/23/09 Sampling Date: 06/23/09 Sample Type: SOIL

Sample Condition: INTACT @ 33.5°C

Sample Received By: AB

Analyzed By: HM

CI (mg/kg

LAB NO.	SAMPLE ID	(mg/kg)
H17685-1	5 PT COMPOSITE 12' BGS	848
H17685-2	CONFIRMATION SAMPLE 14' BGS	496
		400
Quality Con		490
True Value	QC	500
% Recovery		98.0
Relative Pe	rcent Difference	2.0

METHOD: Standard Methods

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

Chemist

Date

06/24/09

#### H17685 HHE



101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476		Page of
company Name: Hungry Horse Environmental Securces	BILL TO	ANALYSIS REQUEST
company Name: Hungry Horse Environmental Services. Project Manager: Vernon K, Black	P.O. #:	
ddress: POBOX 1058	Company: SAME	
city: Hobbs State: NM Zip: 8824	Attn:	
Phone #: 575-393-3386 Fax #: 575-39/-4585	Address:	
Project #: Project Owner: Forest O. 1	City:	
Project Name: FoC Starte (B-11	State: Zip:	
Project Location: Eddy Canty NM  sampler Name: Vernon K. Black	Phone #:	
	Fax #:	
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rince. In no event shall Cardnet be kable for incidental or consequental damages, including without hinfaton, business interruptions. I finales or successors aroung out of or related to the partitionance of samces hateunder by Catdnet regardless of whether such claim.	whether a snorse; belate evode ethic yna nogu bezed e.	11
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Sampler - UPS - Bus - Other: # 7635.500   No   No	* B	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Date: 5/26/2009 Time: 7:52 AM To: 2009220164 @ 915753914585

NMOC P.1/2

#### NEW MEXICO ONE CALL Locate Request Confirmation

Ticket #:2009220164

Reason Code: STANDARD LOCATE

Work to Begin Date:

05/28/2009

Time: 07:49:00 AM

CALLER INFORMATION

SHANON RUSK HUNGRY HORSE LLC Excavator Type:CONTRACTOR

Tel.: (575)631-0983

DIG LOCATION

City:RURAL EDDY Subdivision:

Address :

Street : STATE B #11

Nearest Intersecting Street:

Second Intersecting Street :

Additional Dig Information: REMOVE PIT = FROM MALJAMAR E ON US-82 7MI T/NW ON SWEET GUM RD (CR-223) 0.8MI T/NE 0.3MI T/N 0.1MI TO LOCATION = SPOT 100FT RADIUS OF RESERVE PIT

Remarks:

Township: 17S Range: 31E Section 1/4: 16 SE

Type of Work: OIL/GAS-WELL/PIT REMOVAL

The following utility owners have been notified of

your proposed excavation site:

CHEVRON-HOBBS

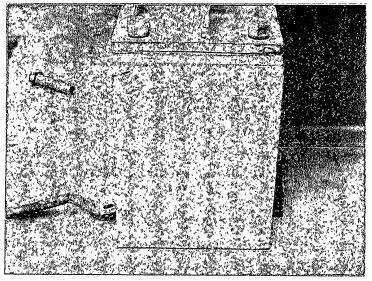
PLAINS PIPELINE - HOBBS FRONTIER FIELD SERVICES, LLC

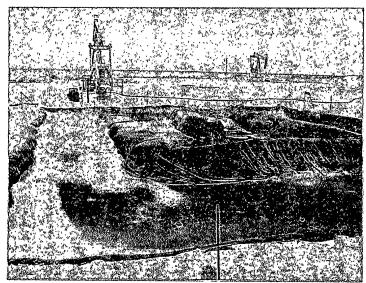
DCP MIDSTREAM - LINUM

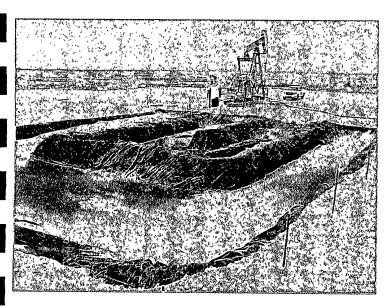
#### IMPORTANT CONFIRMATION NOTICE

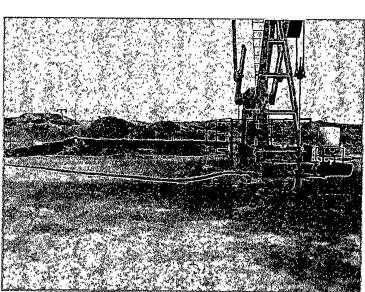
Your fax request has been received and processed. It is your responsibility to review the information provided on this faxback confirmation ticket and ensure it has been correctly interpreted from your request. Notify us immediately of any corrections or errors. Acceptance of this faxback confirmation 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.

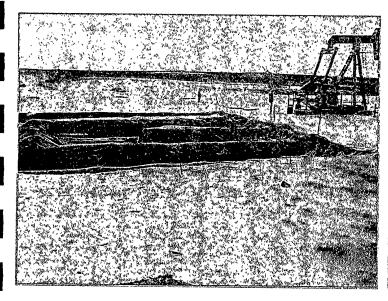
New Mexico Law requires you to wait two working days from the date and time of this confirmation notice before you begin excavation. This

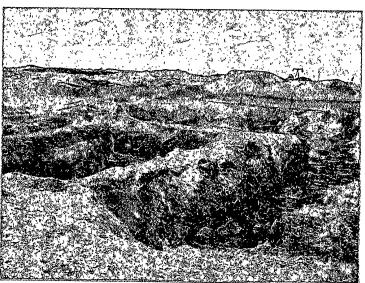


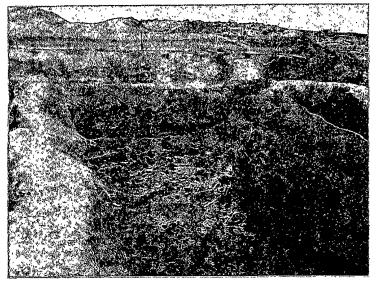


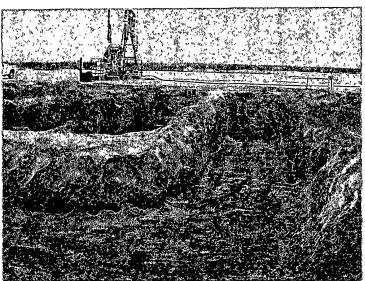


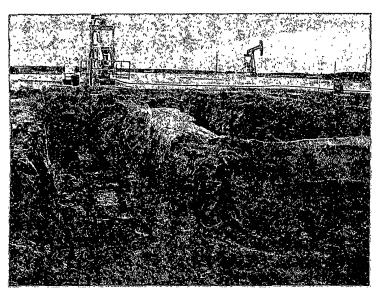




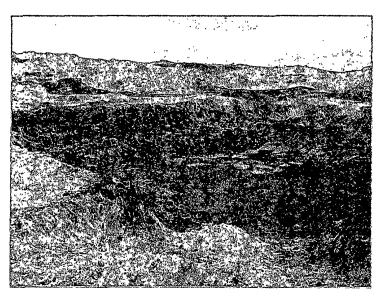


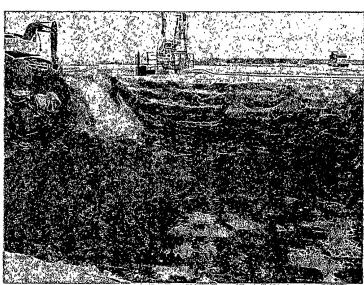


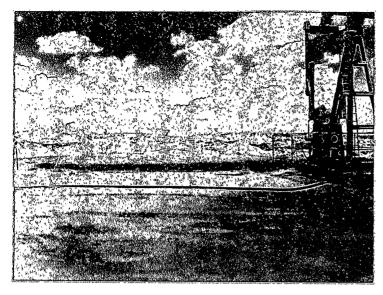


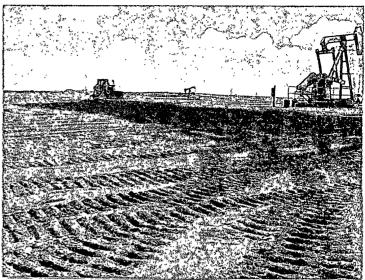


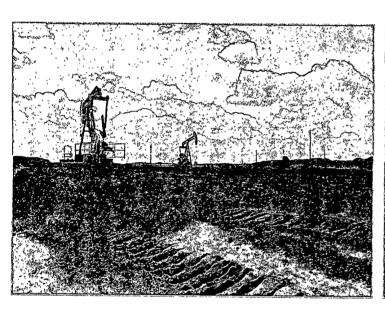


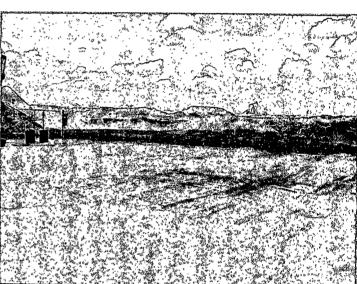


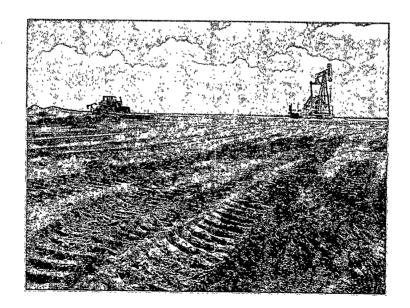












### HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

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

19May09

To: Jim Amos, BLM Carlsbad Office

Reference: Pit Closures

Dear Mr. Amos,

Hungry Horse Environmental Services has been retained by Forest Oil Corporation to conduct drilling reserve pit closures at two locations on BLM land. All work over pits will be closed using the waste excavation and removal process. All pit closure work will be done in accordance with 19.15.17.13 NMAC. Each affected area off the existing location will be returned to its natural state. Should you have any questions, please feel free to contact me at any time. The work to be conducted is at the listed well locations. Both locations are in Sec. 16, T17S, R31E of Eddy County, NM.

CFOC State B #11

<u>\_30-015-36255</u>3

FOC State B #12

30-015-36256

Thanks for your help,

Vernon K. Black, Hungry Horse Environmental Services

U.S. Postal Service ...
CERTIFIED MAIL RECEIPT
(Domesic Mail Only; No insurance Coverage I CARLSBAD NN-88220 1000 1744 \$0.44 0640 MIS NIM Postage Certified Fee \$2.80 Return Receipt Fee (Endorsement Required) Postmark \$2.30 ₩AY 18 2000 Restricted Delivery Fee (Endorsement Required) \$0.00 0220 \$5.54 Total Postage & Fees \$ 7007 City, State ZIF

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY		
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.  1. Article Addressed to:  BLM Cauboad Office  AH: Jm AMOS	A. Signature  Agent  Addressee  D. Received by (Printed Nafrie)  C. Date of Delivery  D. Is delivery address different from them 17  Yes  If YES, enter delivery address below:  No		
602 E. Greene St. [ Curbs bad NM 88220	3. Service Type  ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.		
	4. Restricted Delivery? (Extra Fee)		
2. Article Number 7007 02	20 0001 1744 4364		

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

The center of the closed pit is 62' east of the well head, GPS N32 49.669 W103 52.235.

Reference the drawing on page #2

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

30-05-36255

PMLB 0938351512

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

**Release Notification and Corrective Action** 

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

2RP-367

nMCB093	43510	21					RATOR		X Ir	nitial Report	Final Report	
Name of Co	ame of Company Forest Oil Corporation 8041			Contact Ron Ragland								
	idress 3504 NW County Road, Hobbs, Nm 88241					No. 575 392 979						
Facility Nan	Facility Name FOC State B #11						Facility Type Producing Well					
Surface Own	Surface Owner State Mineral Owner						Lease No. API 30-15-36255					
LOCATION OF RELEASE									· · · · · · · · · · · · · · · · · · ·			
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West	Lina	County		
Onit Letter	Section	Township	Range	rect from the	Noiti	"South Line	1 cct nom the	Lasu West	Line	County		
0	16	178	31E						Eddy			
Latitude							le	<del></del>				
	NATURE OF RELEASE											
Type of Relea	ase Produc	ed Water					Release Unknow	n Vo	olume I	Recovered Unkr	iown	
Source of Rel					.,,	Date and I	lour of Occurrence				егу	
						Unknown		13	un09			
Was Immedia	ite Notice (		Yes X	No Not Rec	quired	If YES, To N/A	Whom?					
By Whom? N	/A	····				Date and H	lour N/A	<del></del>				
Was a Watero		ched?					olume Impacting	the Waterco	urse.			
			Yes X	No		N/A					}	
If a Watercou	rse was lm	pacted, Descri	ibe Fully.	E		L						
` <b>(</b>												
, <b>(</b>												
Describe Cau	Describe Cause of Problem and Remedial Action Taken.*											
	A liner failure in the drilling reserve pit caused a produced water release. This release was detected during the pit closure process by way of soil analysis											
(see Attached	). Further e	excavation wil	l continue	until soil samples	s indica	nte a chloride l	evel at or below the	he NM OCI	) limits	i.		
1												
	`											
Describe Area	Describe Area Affected and Cleanup Action Taken.*											
1										•		
I hereby certi	fy that the i	information gi	ven above	is true and comp	lete to	the best of my	knowledge and u	inderstand ti	nat purs	suant to NMOCI	) rules and	
regulations al	l operators	are required to	report ar	id/or file certain re	elease i	notifications a	nd perform correct	tive actions	for rel	eases which may	endanger	
public health	or the envi	ronment. The	acceptance	e of a C-141 repo	ort by th	ne NMOCD m	arked as "Final R	eport" does	not reli	ieve the operator	of liability	
or the enviror	perauous n ment In a	ddition NMC	inchaicis iCD accen	investigate and re	renort /	ac contaminati does not reliev	on mai pose a inc e the operator of	eat to groun	d water	r, surface water,	human health	
federal, state,	or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.											
	OIL CONSERVATION DIVISION											
Signature:	Signature:											
J. S. S. Lander C.				······································		Annroved his	ingnord Byrnell's	Ly Br	serre)	134		
Printed Name	Printed Name: Ron Ragland ADALLA Approved by agrant 1970											
Title Conice Declaring Common						Approval D-4	<sub>e</sub> DEC <b>0 9</b> 20	009		D-4		
								iration	Date:			
E-mail Addre	ss: rdraglar	nd@forestoil.c	om		Conditions of Approval Pemedia tron per MINOCO Pules & Bundelmes Attached							
	_				MMOCD Ruks & Grudelines Attached							
Date: /O	June 29	An ICNI		575 392 9797		<del></del>						
* Attach Addit	ionai Snee	us II necessa	ary							_		

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

30-015-36255

#### State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

**Release Notification and Corrective Action** 

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

MCBOS	3435/	071				OPERA	TOR		Init	ial Report	X	Final Re	ероп
Name of Company Forest Oil Corp 8041					Contact Ron Ragland								
						No. 575 392 979							
Facility Name FOC State B #11 Faci						Facility Typ	e Producing W	'ell					
Surface Owner State Mineral Owner									Lease N	No. 30-	015-	36255	3
LOCATION OF RELEASE													
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/V	Vest Line	County			
0	16	17S	31E							Eddy			
Latitude						Longitud	e	J		Lady			
					URI	E OF RELI							
Type of Rele	ase Produc	ed Water					Release Unknow	'n	Volume I	Recovered U	nknowi	n	
Source of Re							lour of Occurrence			Hour of Dis			
Was Immedi	ate Notice (	Given?			,	If YES, To	Whom?		1341107			······································	
			Yes X	No Not Rec	quired								
By Whom?						Date and H							
Was a Water	course Read		v	No			olume Impacting t	the Wate	rcourse.				
			Yes X	No		N/A							
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	<b>t</b>									
N/A													
Daniba Car	CDbl	em and Reme	dial A atia	- Tolon *									
Describe Cat	ise of Proble	em and Keme	diai Actio	п такеп.									
													'
Describe Are	a Affected :	and Cleanup A	Action Tal	ren *									
Upon detection	on of the pro	esence of chlo	rides 2' b	elow the liner, fur	ther ex	cavation was c	conducted with so	il sampl	es being fi	eld tested at	various	depths.	Αι
12'BGS a 5 p	point compo	site sample w	as obtaine	ed and a field test i	indica	ted chloride lev	els below 1000pr	om. This	sample wa	as sent to the	lab for	analysis	
and the result	ts confirmed if the chlori	l a chloride le de level was s	vel of <10 < 250mm	000ppm. As reques . Lab results indica	sted by	y Mike Bratche	r, NM OCD, anot	ther sam	ple was ob	tained analy	zed from	m 14'BG	S
		work plan co			aicu ii	iat it was \230	ррш. Мике втакс	ier was i	nounea or	tne results a	na aavis	sed that	
•	•••	•											
I hereby cart	fy that the :	nformation of	ven abore	is true and compl	ete to	the heat of	knowledge	ndo	od shoos		OCE		
regulations a	ly mat me i	mormation gi are required to	ven above o report ar	e is true and compi nd/or file certain re	elease	notifications ar	knowneage and und perform correct	nderstan tive acti	ons for rel	suant to NM(	JCD ru may en	iles and	
public health	or the envir	onment. The	acceptano	e of a C-141 repo	rt by t	he NMOCD ma	arked as "Final R	eport" d	oes not rel	ieve the oper	rator of	liability	
should their o	perations h	ave failed to a	dequately	investigate and re	emedia	ate contamination	on that pose a thr	eat to gr	ound water	r, surface wa	ter, hur	nan healt	.h
federal, state,	or local lay	uamon, NMC vs and/or regu	ilations.	tance of a C-141	report	does not relieve	e the operator of	responsi	bility for c	ompliance w	ith any	other	
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10111				11									
Signature: ID Ry !					10 M		KARRILE	-4.					
Printed Name: Ron Ragland  Approved by particles Supervisory Described Supervisory													
Title: Senior Production Foreman				Approval DatDEC 0 9 2009 Expiration Date: NA									
E mail A d 3	oor ad-set	d@fax						/		T T			
E-mail Address: rdragland@forestoil.com			Conditions of	Approval: N	M		Attached						
Date: 30Jun0				Phone: 575 392 97	97								i
Attach Addit			ary					· ·		701	) :	210	 1
PALBOG	134351	512							$\subset$	×/)/~		6/	

District I
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### State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 1285,9 2/55/08 Nuncy 0/25/08

Form C-144 July 21, 2008

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

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or
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
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
1. Operator: Forest Oil Corporation OGRID #:8041
Address: 3504 NW County Road Hobbs, NM 88240
Facility or well name: FOC State B #11
API Number: 30-015-36255 OCD Permit Number:
U/L or Qtr/Qtr O Section 16 Township 17S Range 31E County: Eddy
Center of Proposed Design: Latitude Longitude NAD: 1927 1983
Surface Owner: X Federal  State  Tribal Trust or Indian Allotment
2
X Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: X Drilling  Workover
Permanent Emergency Cavitation P&A
X Lined Unlined Liner type: Thickness 12 mil LLDPE HDPE PVC Other
X String-Reinforced
Liner Seams: Welded Factory X Other stitched Volume: 5000 bbl Dimensions: L100' x W75' x D4'
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Scams:
Relow-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
5. Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
Substitution of approval.

Form C-144 Rule 50 Partie Contraction Division

	<b>6</b>	
	Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
	Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospital,
	Four foot height, four strands of barbed wire evenly spaced between one and four feet	
	Alternate. Please 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)	
	8	
	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:	
	Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
	Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau	affina for
	Consideration of approval.	once for
	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 accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate 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 dry above-grade tanks associated with a closed-loop system.	opriate district opproval.
	Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.	Yes No
	- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
	Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
	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.	Yes No
	(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA NA
	- 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.	Yes No
	(Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□ NA
	Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☐ No
	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 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	☐ Yes ☐ No
	- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
	Within 500 feet of a wetland.	D D
	<ul> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
	Within the area overlying a subsurface mine.	Yes No
	- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	1.000 140
	<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No
	Within a 100-year floodplain.	□ Vm□ N
- 1	- FEMA map	Yes No
١		l

	Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
	attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
	Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
	Previously Approved Design (attach copy of design) API Number: or Permit Number
	12. <u>Closed-loop Systems Permit Application Attachment Checklist</u> : 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
	attacked.  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
ı	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:
	Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use
	above 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   Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 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   Oii 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.
ı	Type: X Drilling  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)
	Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  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 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: (19.15.17.13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two				
Instructions: Please indentify the facility of facilities are required.	. Ose machiness y more man inv			
Disposal Facility Name: Disposal Facility Permit Number	я:			
Disposal Facility Name: Disposal Facility Permit Number:				
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?  Yes (If yes, please provide the information below) No				
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 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				
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. Recommendation provided 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 demonstrations 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			
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	Yes No			
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, lake (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 initia  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	l application. Yes No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for do watering 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 sit	initial application.			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality.	.   0			
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the	☐ 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; I Society; Topographic map	NM Geological Yes No			
Within a 100-year floodplain FEMA map	☐ Yes ☐ No			
Da-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attacked.    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 NM     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     Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closed in 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 G of 19.15.17.13 NMAC     Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	AAC 17.11 NMAC requirements of 19.15.17.11 NMAC 15.17.13 NMAC			



#### **Bill Richardson**

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



### Conditions of approval for closure of a drilling or work over pit

Notify OCD District 2 office 48 hours prior to commencement of closure activities.

Notify OCD District 2 office 48 hours prior to obtaining samples where analyses of samples obtained are to be submitted to OCD.

Sampling requirements are listed in 19.15.17.13 [NMAC] (Pit Rule)

Final closure report is to be submitted to OCD not later than 60 days after completion of closure.

Surface restoration per OCD/BLM requirements.



### HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

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

#### 19May09

TO: Mike Bratcher, NM OCD Dist II REFERENCE: Pit Closure Work Plan

OPERATOR: Forest Oil Corporation

LOCATION: FOC State B #11

API: 30-015-36255

LEGALS: UL. O, Sec. 16, T175, R31E GPS: N32 49.669 W103 52.235 DEPTH to GROUND WATER: >200'

General Site Characteristics: This drilling reserve pit is located west of Maljamar, NM off Sweet Gum Road. The terrain consist of sand dunes and gentle rolling hills with native grass, mesquite, and small yucca plants. Ground water depth is >200' based upon the Eddy County Depth to Groundwater Map. There are no known water wells or surface bodies of water within 1,000' of this location. The pit is approximately 100' x 75' x 3' and is located (center) 62' east from the well head.

Site ranking Score: 0 based upon above information

Soil Remediation Action Levels: Based upon NM OCD guidance

Sketch of Affected Area: See Attached

Work Plan Proposal: The proposed closure plan is to use the waste excavation and removal method. The pit contents, to include the liner, plus two feet of material below the liner will removed and transported to a division-approved facility for disposal. A five-point composite soil sample will be obtained and analyzed for Benzene, BTEX, TPH, GRO/DRO, and chlorides. If there is evidence of a release, a form C-141 with supporting documentation will be submitted detailing the remediation work that will continue.

Soil Cover Designs: Once the area has been remediated to NM OCD's satisfaction, the excavated area will be back filled using clean soil from a near-by pit. Topsoil will be used to cover the backfill. The area will be contoured to match the surrounding terrain.

Re-vegetation: The area will be seeded using a BLM approved seed mixture and technique.

Submitted By: Vernon K. Black, Hungry Horse Environmental Services

Signature: 19/16/09