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

State of New Mexico Energy Minerals and Natural Resources 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

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 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, 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.
Operator: Forest Oil Corporation OGRID #:8041
Address: 3504 NW County Road Hobbs, NM
Facility or well name: FOC State B #12
API Number: 30-015-36256 OCD Permit Number:
U/L or Qtr/Qtr PSection 16Township 17SRange 31ECounty: Eddy
Center of Proposed Design: Latitude Longitude NAD: 1927 1983
Surface Owner: Federal X State Tribal Trust or Indian Allotment
2
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: L95' x W86' x D6'
3. 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
4
Below-grade tank: Subsection 1 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.
1

Final Clasure DARS 1/1/09 - Rule 50 paraithed -

6. 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) Pour 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. Signer Subsection C of 10.15.17.11 NMAC	
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	office for
consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10.	
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 acce	mahle saurce
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro	opriate district
office 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.	10
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 fect 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).	☐ Yes ☐ No
- 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☐ NA
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
(Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	L 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	☐ Vac ☐ Na
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. - 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.	☐ Yes ☐ No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Society; Topographic map	
Within a 100-year floodplain,	Yes No
- FEMA map	1

11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks 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
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.
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
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
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)
[13]
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
attached.
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 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
Crosure Frair - based appropriate requirements of Subsection C of 17.13.17.7 NiviAC and 19.13.17.13 NiviAC
II.
<u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
☐ Alternative
Proposed Closure Method: Waste Excavation and Removal
Waste Removal (Closed-loop systems only)
On-site Closure Method (Only for temporary pits and closed-loop systems)
In-place Burial On-site Trench Burial
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Weste Everyntian and Demoyal Cleanse Plan Cheeklists (10.15.17.12.) MACO Land Cheeklists (10.15.17.12.) MACO Land Cheeklists (10.15.17.12.)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the
closure plan. Please indicate, by a check mark in the box, that the documents are attached.
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection 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: (19.15.17.13.13.13.13.13.13.13.13.13.13.13.13.13.	NMAC) nore than two
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 server Yes (If yes, please provide the information below) 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	2
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 districtions of acceptable sour considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justife 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	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. 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
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure pl	an. Please indicate,
by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection 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 cann 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, accu-	rate and complete to the best of my knowledge and belief.
Name (Print):	Title:
	D. (-
Signature:	Date:
a mail address.	Telephone:
e-mail address:	receptione.
20. OCD Approval: Permit Application (including closure plan) Closure F	Non (anh.) OCD Conditions (see attachment)
OCD Approva: Permit Application (including closure plan) Closure P	ian (only)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
21.	
Closure Report (required within 60 days of closure completion): Subsection	K of 19.15.17.13 NMAC
Instructions: Operators are required to obtain an approved closure plan prior	
The closure report is required to be submitted to the division within 60 days of	the completion of the closure activities. Please do not complete this
section of the form until an approved closure plan has been obtained and the c	losure activities have been completed.
	X Closure Completion Date: / July 09
	A Closure Completion Date: 7001)
22.	
Closure Method:	tive Classes Mark of T Warte Damand (Classed Iran automorphy)
X Waste Excavation and Removal On-Site Closure Method Alterna	tive Closure Method
If different from approved plan, please explain.	
23,	
Closure Report Regarding Waste Removal Closure For Closed-loop System	
Instructions: Please indentify the facility or facilities for where the liquids, dr	lling fluids and drill cuttings were disposed. Use attachment if more than
two facilities were utilized.	
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on o	r in areas that will not be used for future service and operations?
Yes (If yes, please demonstrate compliance to the items below) No	·
Required for impacted areas which will not be used for future service and opera	tions:
Site Reclamation (Photo Documentation)	av/1 m/.
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24.	
Closure Report Attachment Checklist: Instructions: Each of the following it	tems must be attached to the closure report. Please indicate, by a check
mark 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)	
X Confirmation Sampling Analytical Results (if applicable)	
☐ Waste Material Sampling Analytical Results (required for on-site closure) X Disposal Facility Name and Permit Number	
X Soil Backfilling and Cover Installation	
X Re-vegetation Application Rates and Seeding Technique	
X Site Reclamation (Photo Documentation)	
	tude NAD: []1927 [] 1983
Operator Closure Certification:	
	connect to two appropriate and assumble to the first of Const. by 1.1.
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require	report is true, accurate and complete to the best of my knowledge and
benefit 1 also certify that the closure complies with an applicable closure require	ments and continuous specified in the approved closure plan.
Name (Print): Ron Ragland Ap Aff	tle: Senior Production Foreman
407	
Signature:	Date:

Accepted for record, NMOCD

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action OPERATOR X Initial Report Final Report Name of Company Forest Oil Corporation Contact Ron Ragland Address 3504 NW County Road, Hobbs, Nm 88241 Telephone No. 575 392 9797 Facility Name FOC State B #12 Facility Type Producing Well Mineral Owner Surface Owner State Lease No. API 30-15-36256 LOCATION OF RELEASE North/South Line Feet from the Feet from the East/West Line Township Range County Unit Letter Section 16 17S 31E Eddy Latitude Longitude NATURE OF RELEASE Volume of Release Unknown Type of Release Produced Water Volume Recovered Unknown Date and Hour of Occurrence Source of Release Reserve Pit Date and Hour of Discovery Unknown 1Jun09 If YES, To Whom? Was Immediate Notice Given? Yes X No Not Required N/A Date and Hour N/A By Whom? N/A If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? Yes X No If a Watercourse was Impacted, Describe Fully.* 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 excavation will continue until soil samples indicate a chloride level at or below the NM OCD limits. Describe Area Affected and Cleanup Action Taken.* I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health 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

Approved by Bistrick Super Made /4 Dennus

Conditions of Approval:

NMOCA RILES & GUIDECINES

Expiration Date:

Attached

Approval Date:

Phone: 575 392 9797

Attach Additional Sheets If Necessary

E-mail Address: rdragland@forestoil.com

Signature:

Printed Name: Ron Ragland

Title: Senior Production Foreman

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

						OPER	RATOR		Initi	al Report	X	Final Report
Name of Co	mpany Fo	rest Oil Corp	poration			Contact Ro	n Ragland					
Address 350	4 NW Co	unty Road, I	Hobbs, N	m 88241		Telephone N	No. 575 <mark>392 97</mark> 9	7				
Facility Nar	ne FOC S	tate B #12				Facility Typ	e Producing We	ell				
Surface Ow	ner State			Mineral C)wner			Le	ase N	o. API 30-	15-36	256
				LOCA	TIO	N OF REI	FASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West I	ine	County		
Ollit Letter	Section	Townsinp	Raige	1 cet nom the	North	South Eine	1 cet nom the	Last West 1		County		
Р	16	17S	31E		<u> </u>					Eddy		
R			Lat	titude		Longitud	e					
				NAT	URE	OF RELI		-				
Type of Rele							Release Unknow			ecovered U		VN
Source of Re	lease Reser	rve Pit				1	lour of Occurrence			Hour of Disc	overy	
Was Immedia	ta Matica (Given?				Unknown If YES, To	Whom?	1)u	nuy			
was minicula	ne nonce (Yes X	No 🔲 Not Rea	quired	N/A	W HOIII:					
By Whom? N						Date and H						
Was a Water	course Reac		Yes X	No		If YES, Vo	lume Impacting t	the Watercou	rse.			
If a Watercoe	ırse was Im	pacted, Descr	ibe Fully.	•		_ _						
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken.*								
A liner failur	e in the dril	ling reserve p	it caused a	produced water							y of so	il analysis
(see Attached	l). Further e	excavation wil	ll continue	until soil sample	s indica	te a chloride l	evel at or below t	he NM OCD	limits.	•		
Describe Are	a Affected	and Cleanup	Action Tal	ken.*								
Excavation c	ontinued to	a depth of 16	'BGS at w	hich point a 5 po	int com	posite soil san	nple was obtained	and sent to (Cardin	al Lab for an	alysis.	. Lab results
(see attached) indicated :	a chloride leve er soil sample	el <1000pj to determ	pm. Mike Bratche tine the point at w	er was n	otified of the r	results and he adv	ised that this	was g	ood for close	ure and	d he also
				as per the approv			са ю <250ррні. 1	ms smapic w	as out	amicu at 16	SOS &	nd the results
		•	·			•						
I hereby certi	fy that the i	information gi	iven above	is true and comp	lete to t	the best of my	knowledge and u	inderstand that	at purs	uant to NM(OCD n	ules and
regulations a	ll operators	are required t	o report ar	nd/or file certain r	release r	notifications a	nd perform correc	tive actions f	for rele	ases which	may er	ndanger
should their	or the envi	ronment. The	acceptant	ce of a C-141 repo	ort by th	ie NMOCD m te contaminati	arked as "Final K	eport" does n	ot reli	eve the open	ator of	liability
or the enviro	nment. In a	ddition. NMC	OCD accer	otance of a C-141	report o	loes not reliev	e the operator of	responsibility	/ for co	, surrace war omnliance w	er, nu	man nearth
		ws and/or regu								omputation w		Caro
							OIL CON	SERVAT	ION	DIVISIO	N	
Signature:					1			11				
Drinted Nom	v Don Dool	land /	» Reli	/		Approved by	PietridySuperis	de Brens	tues	e		
Printed Name	. Kuli Kagi	and July	14111		- 		DEC A O	2000		1		
Title: Senior	Production	Foreman				Approval Dat	DEC 0 8 2	ZUUY Expir	ation	Date: NA		
E-mail Addre	ss: rdraglar	nd@forestoil.	com			Conditions of	Approval: NA			Attached	П	
Date:			Phone	: 575 392 9797						/ macine	نا	
L	Caral Obas	ete If Nacece					 			1		

Forest Oil Corporation Pit Closure Summary

FOC State B No. 12

API 30-015-36256

Eddy County, NM

UL. P, Sec. 16, T17S, R31E

GPS N32 49.674 W103 51.984

Start date: 12May09

Finish date: 1July09

Prepared By: Vernon K. Black

Environmental Technician

Hungry Horse Environmental, LLC

PO Box 1058

Hobbs, NM 88240

(575)-393-3386



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Diagram of Pit/Location Area	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 – Plot Plan

Attachment 7 – C 144 w/Closure Plan

Attachment 8 – C 144 Final

Attachment 9 - C141 Initial & Final Report

1.0 Introduction

This report addresses the drilling reserve pit closure at Forest Oil Corporation's FOC B State #12 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.

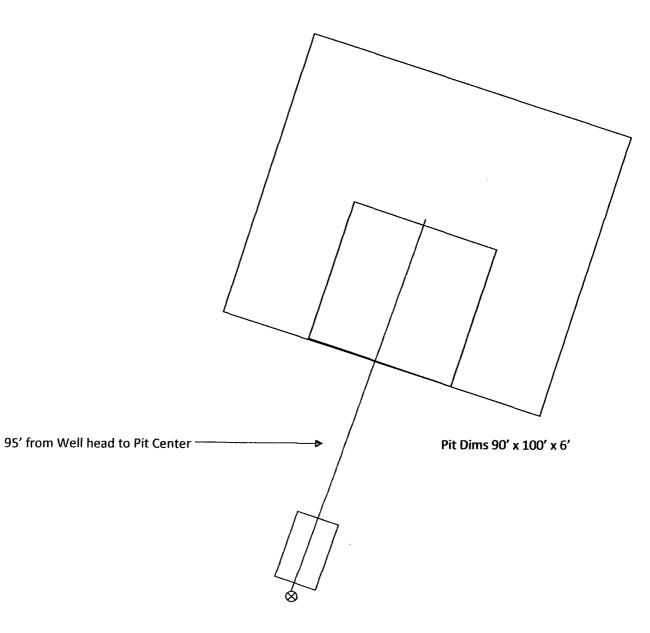
2.0 Area Description

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 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

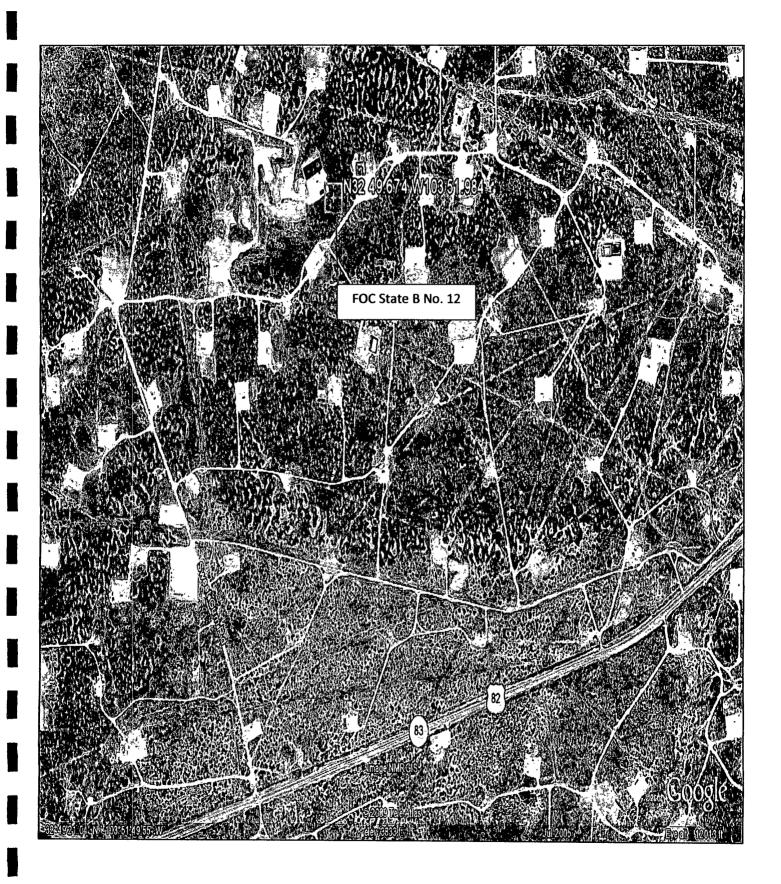
This pit closure was accomplished using the Waste Excavation and Removal Process. The drilling reserve pit was 100'L x 90'W X 6'D and was lined with a synthetic liner. The pit contents, along with the liner, and two feet of material from underneath the liner were excavated and removed. All material removed 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 16' 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 18'BGS. Lab results indicated a chloride level of <250ppm. 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 16'. The excavated area was backfilled using clean material from a nearby source, contoured to match the surrounding terrain and re-seeded.





FOC State B #12 Well

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: 05/13/09

Reporting Date: 05/19/09

Project Owner: FOREST OIL
Project Name: FOC STATE B-12

Project Location: EDDY COUNTY, NM

Sampling Date: 05/13/09

Sample Type. SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: AB/ZL/HM

LAB NO. SAMPLE ID

GRO DRO

 $(C_6 - C_{10})$

(>C10-C28) BENZENE TOLUENE BENZENE XYLENES

ETHYL TOTAL

(mg/kg)

 $(>C_{10}-C_{26})$ BE (mg/kg) (r

(mg/kg) (mg/kg) (mg/kg)

(mg/kg) (r

CI* (mg/kg)

ANALYSIS DATE	05/14/09	05/14/09	05/18/09	05/18/09	05/18/09	05/18/09	05/14/09
H17422-1 PIT COMPOSITE 7' BGS	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	10,600
Quality Control	525	524	0.060	0.052	0.045	0.132	500
True Value QC	500	500	0.050	0.050	0.050	0.150	500
% Recovery	105	105	120	104	90.0	88.0	100
Relative Percent Difference	3.0	0.4	14.8	3,6	4.3	5.0	<0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M, BTEX - SW-846 8021B; CI-; Std. Methods 4500-CI-8 *Analysis performed on a 1:4 w:v aqueous extract.

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

Lab Director

Date

FILE CON

H17422 TBCL HHE

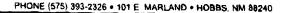
PLEASE NOTE: Liebility and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or ton, shall be limited to the amount paid by client for enalyses. All claims, including those for negligence and any other cause whatebever shall be deemed welved unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidents or consequently demages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiance, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above-stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ARDINAL LABORATORIES

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

(575) 393-2326 Fax (575) 393-2476		Pageof
Company Name: Hungry Horse Environmental Project Manager: Vernon K, Black	Services BILL TO	ANALYSIS REQUEST
Project Manager: Vernon K, Black	P.O. #:	
Address: PO Box 1058	Company: SAME	
City: Hobbs State: NM Zip: 882		
Phone #: 575-393-3386 Fax #: 575-391-46	585 Address:	
Project #: Project Owner: Tore)	StOCL City:	
Project Name: FOC State B-12 Project Location: Eddy County NM Sampler Name: Vernon K. Black	State: Zip:	
Project Location: Eddy Canty NM	Phone #:	
sampler Name: Vernon K. Black	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV SAMPLING	1,
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H17422-1 7'BGS	\$ 8 5 8 6 8 5 5 DATE TIME	
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PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising whi	hether based in contract or lon, shall be limited to the amount paid by the client to	the Terms and Conditions: interest will be charged on all accounts more than
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[†] 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: 06/01/09 Reporting Date: 06/05/09

Project Owner: FOREST OIL

Project Name: FOC STATE B-12

Project Location: EDDY COUNTY, NM

Sampling Date: 06/01/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: ML

Analyzed By. AB/ZL

GRO

DRO

ETHYL

TOTAL

CI.

LAB NO SAMPLE ID (C₆-C₁₀) (>C10-C28) BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg)

(mg/kg)

(mg/kg)

(mg/kg)

(mg/kg)

(mg/kg)

ANALYSIS DATE:	06/03/09	06/03/09	06/02/09	06/02/09	06/02/09	06/02/09	06/03/09
H17526-1 5PT COMPOSITE 14' BGS	<10 0	<10.0	<0.050	<0.050	<0.050	<0.300	4,160
RESERVE PIT							
Quality Control	486	453	0.059	0.048	0.043	0.129	500
True Value QC	500	500	0.050	0.050	0.050	0.150	500
% Recovery	97.2	90 6	118	98.0	86.0	86.0	100
Relative Percent Difference	2.5	0.6	197	42	4.3	3.6	2.0

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-. Std. Methods 4500-CI-B

*Analysis performed on a 1:4 w/v aqueous extract. Reported on wet weight.

TPH GRO/DRO and Chloride are not NELAP accredited.

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

Lab Director

Date October

H17526 TBCL HHE

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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: 06/01/09

Reporting Date: 06/08/09

Project Owner: FOREST OIL

Project Name: FOC STATE B-12

Project Location: EDDY COUNTY, NM

Sampling Date: 06/01/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By. ML

Analyzed By AB

418.1 TOTAL TPH (mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS	DATE	06/08/09
H17526-1	5PT COMPOSITE 14' BGS	<100
	RESERVE PIT	
		- · · · · · · · · · · · - · · - ·
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		— <u> </u>
Quality Con	trol	321
Quality Con True Value	QC	321
	QC	321 300 107

METHODS EPA 418.1. Reported on wet weight. Analyte not NELAP accredited.

Chemist

06/08/09 Date

H17526 THROUGH H17534 418.1 HHE

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[†] Cardinal cannot accept verbal changes. Please fex written changes to 576-393-2476.



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: 06/10/09 Reporting Date: 06/11/09

Project Owner: FOREST OIL CORP.
Project Name: FOC STATE B NO. 12

Project Location: EDDY COUNTY, NM

Analysis Date: 06/11/09 Sampling Date: 06/10/09

Sample Type: SOIL

Sample Condition: INTACT @ 20°C

Sample Received By: ML

Analyzed By: HM

LAB NO. SAMPLE ID	CI (mg/kg)
H17604-1 5 PT COMPOSITE 16' BGS	912
Quality Control	490
True Value QC	500
% Recovery	98.0
Relative Percent Difference	2.0
METHOD: Standard Methods	4500-CIB

Note: Analysis performed on a 1.4 w/v aqueous extract.

Chemist

Date

H17604 HHE

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† Cardinal cannot accept verbal changes. Please lex written changes to 676-393-2476.

** Cooling process had begun



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: 06/18/09 Reporting Date: 06/19/09 Project Owner: FOREST OIL Project Name: FOC STATE B-12

Project Location: EDDY COUNTY, NM

Analysis Date: 06/19/09 Sampling Date: 06/18/09 Sample Type: SOIL

Sample Condition: INTACT @ 24°C

Sample Received By: ML

Analyzed By: HM

_ LAB NO	SAMPLE ID	CI ⁻
H17665-1	18' BGS CONFIRMATION SAMPLE	(mg/kg)
	TO DOS CONTINUATION SAMPLE	64
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Quality Cont	trol	500
True Value		500
		· + — — — —
% Recovery		100
Relative Per	rcent Difference	< 0.1

METHOD: Standard Methods 4500-CI'B

Note: Analysis performed on a 1:4 w:v aqueous extract.

06/19/09

H17665 HHE



101 East Martand, Hobbs, NM 88240

		28 Fax (576) 393-2														rage.				
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[†] Cardinal cannot accept verbal changes. Please lax written changes to 575-393-2476.

Date: 5/6/2009 Time: 8:04 AM To: 2009191726 @ 915753914585

NMOC P.1/2

NEW MEXICO ONE CALL Locate Request Confirmation

Ticket #:2009191726 Work to Begin Date:

05/08/2009

Reason Code:STANDARD LOCATE

Time: 08:00:00 AM

CALLER INFORMATION

SHANON RUSK HUNGRY HORSE LLC Excavator Type:CONTRACTOR Tel.: (575) 631-0983

DIG LOCATION

City:RURAL EDDY Subdivision:

Address : To: Street : FOC STATE B #12 Nearest Intersecting Street :

Second Intersecting Street :

Additional Dig Information:
DIGGING RESERVE PIT = FROM MALJAMAR W ON US-82
6.8MI T/N ON CR-223 (SWEETGUM RD) T/N 0.8MI T/NE
0.5MI TO LOCATION =
SPOT 300FT RADIUS OF RESERVE PIT

Remarks:

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

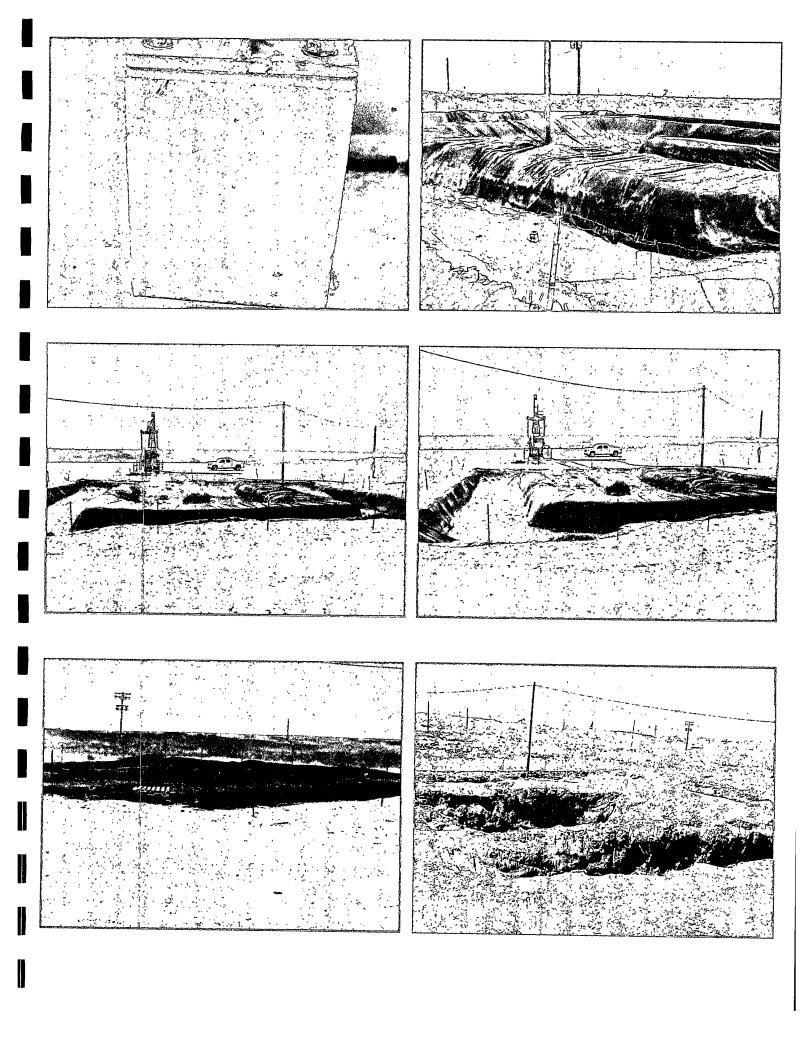
Type of Work: OIL/GAS-WELL/PIT REMOVAL

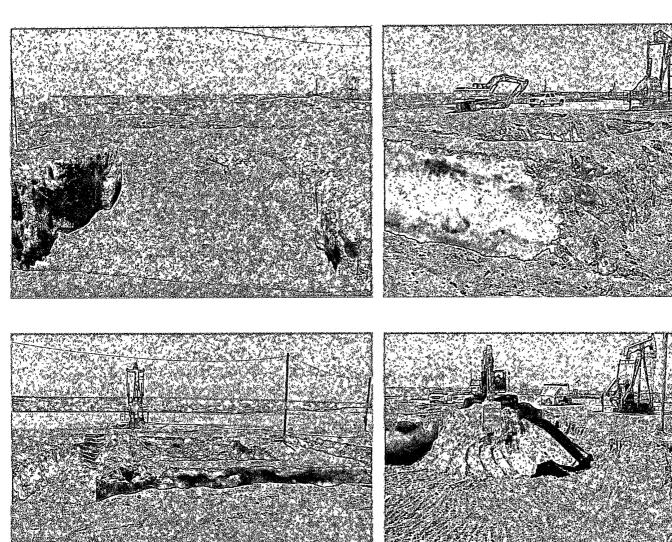
The following utility owners have been notified of your proposed excavation site:
CHEVRON-HOBBS
FRONTIER FIELD SERVICES, LLC
DCP MIDSTREAM - LINUM
PLAINS PIPELINE - HOBBS

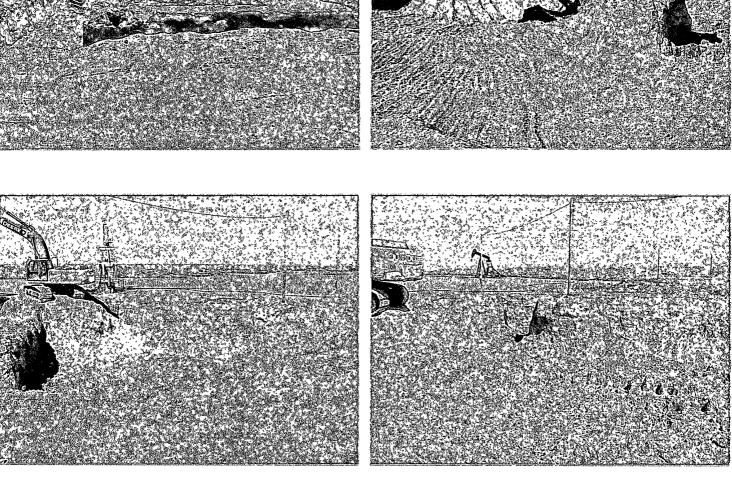
IMPORTANT CONFIRMATION NOTICE

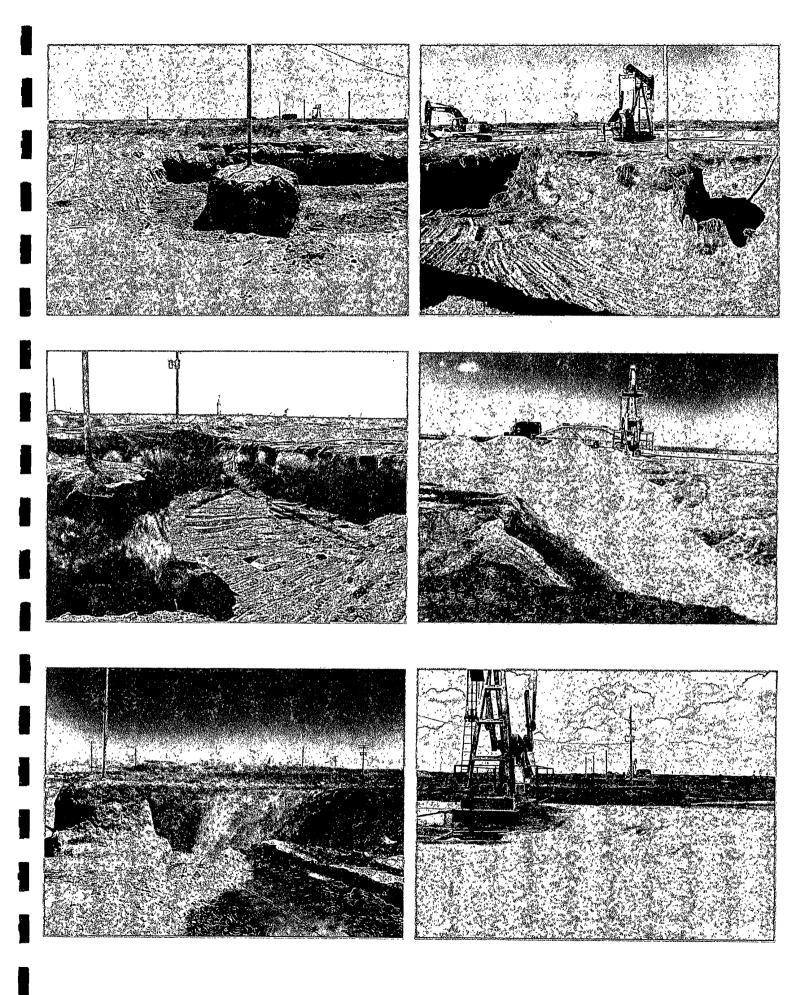
Your fax request has been received and processed. It is your responsibility to review the information provided on this faxback confirmation ticket and ensure it has been correctly interpreted from your request. Notify us immediately of any corrections or errors. Acceptance of this faxback confirmation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

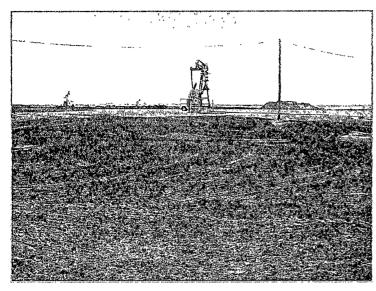
New Mexico Law requires you to wait two working days from the date and



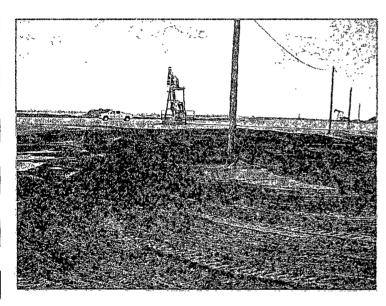














HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

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

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.

FOC State B #11

30-015-36255

FOC State B #12

30-015-36256

Thanks for your, help,

Vernon K. Black, Hungry Horse Environmental Services

The center of the closed pit is 95' northeast of the well head, GPS N32 49.674 W103 51.984.

Reference the drawing on page #2

REC'D 2/10/09 VIM EMAIL

Form C-144 July 21, 2008

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

State of New Mexico
Energy Minerals and Natural Resources
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 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, 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.
Operator: Forest Oil Corporation OGRID #: 8041
Address: 707 17th St., Denver, CO 80202
Facility or well name: FOC State B #12
API Number: 30-015-36256 OCD Permit Number:
U/L or Qtr/Qtr P Section 16 Township 17S Range 31E County: Eddy
Center of Proposed Design: Latitude 32049'39.45" Longitude 103051'57.78" NAD: 1927 X1983
Surface Owner: Federal State Tribal Trust or Indian Allotment
O I
X Pit: Subsection For G of 19.15.17.11 NMAC Bule 50 PRMINES
Temporary: ⊠ Drilling □ Workover
Permanent Emergency Cavitation P&A
☐ Lined ☐ Unlined Liner type: Thickness 12 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
X String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☑ Other stiched Volume: 5000 bbl Dimensions: L 95' x W 86' x D 6'
3.
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 Seams: Welded Factory Other
4.
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: 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.

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, schoinstitution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	ool, hospital,
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)	
a. 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	
State Stat	au 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 acc material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the app office 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 dishove-grade tanks associated with a closed-loop system.	ropriate district f 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 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
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
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: 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 19.15.17.12 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:
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 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 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)
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H 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 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 Tax Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fi	nks or Haul-off Bins Only: (19.15.17.13 luids and drill cuttings. Use attachment if	.D 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 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. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.									
Ground water is less than 50 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	from nearby wells	Yes No							
Ground water is between 50 and 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	from nearby wells	☐ 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									
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	ce at the time of initial application.	☐ Yes ☐ No							
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five I watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in ex - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	istence at the time of initial application.	Yes No							
Within incorporated municipal boundaries or within a defined municipal fresh water well field adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained		Yes No							
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection	n (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	al Division	☐ Yes ☐ No							
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Society; Topographic map 	Resources; USGS; NM Geological	☐ 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 to a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Subsection Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate red Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMA Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings of Soil Cover Design - based upon the appropriate requirements of Subsection F Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17	19.15.17.10 NMAC F of 19.15.17.13 NMAC guirements of 19.15.17.11 NMAC pon the appropriate requirements of 19.15 C Subsection F of 19.15.17.13 NMAC of 19.15.17.13 NMAC or in case on-site closure standards cannot 7.13 NMAC	.17.11 NMAC							

Operator Application Certification										
I hereby certify that the information s	ubmitted with this application is true, accurate a	and complete to the best of my knowledge and belief.								
Name (Print):Cindy:Bush	Title: V.Sr. Regu	ulatory Tech								
Signature:	Bio	Date:								
e-mail address: <u>cabush@forestoil.</u>	com	Telephone:303 <u>-812-1554</u>								
OCD Approval: Permit Applicate OCD Representative Signature	ion (including clasure plan) A Closure Plan (o By Mily Benneter	only) OCD Conditions (see attachment) Approval Date: FEB 1-2 2009								
Title:	<u>.</u>	CD Permit Number:								
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.										
		Closure Completion Date:								
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.										
23. <u>Closure Report Regarding Waste Re</u> Instructions: Please indentify the faci two facilities were utilized.	noval Closure For Closed-loop Systems That lity or facilities for where the liquids, drilling fl	t Utilize Above Ground Steel Tanks or Haul-off Bins Only: fluids and drill cuttings were disposed. Use attachment if more than								
Disposal Facility Name:	Disp	posal Facility Permit Number:								
Disposal Facility Name:		posal Facility Permit Number:								
	and associated activities performed on or in are empliance to the items below) \(\sigma\) No	eas that will not be used for future service and operations?								
Required for impacted areas which will Site Reclamation (Photo Docume Soil Backfilling and Cover Install Re-vegetation Application Rates	ation									
mark in the box, that the documents are Proof of Closure Notice (surface of Proof of Deed Notice (required for Prot Plan (for on-site closures and Confirmation Sampling Analytica	e attached. owner and division) r on-site closure) temporary pits) I Results (if applicable) al Results (required for on-site closure) t Number tion and Seeding Technique tation)	nust be attached to the closure report. Please indicate, by a check NAD: []1927 [] 1983								
5.										
		s true, accurate and complete to the best of my knowledge and and conditions specified in the approved closure plan.								
Name (Print):	Ti	Title:								
signature:		Date:								
-mail address:	Т	Telephone:								

New Mexico Energy, Minerals and Natural Resources Department

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 pit

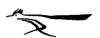
Notify OCD District 2 office 48 hours prior to commencement of closure activities.

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.

@ NOTE: An EPA Method 418.1 must be run in addition to the



Protocols and Procedure

All pit material and liners will be excavated and transported to Lea Land Inc.

Confirmation Sampling Plan

After excavation a five point composite will be collected from the bottom of the excavation and grab samples will be retrieved from any area that is wet, discolored or showing other evidence of a release.



The samples will be transported under Chain of Custody to a third party laboratory and analyzed for BTEX (EPA Method 8021B), GRO & GRO (EPA Method 8015M), Chlorides (EPA Method 300.0)

If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Subparagraph (b) of Paragraph (1) of Subsection B of 19.15.17.13 NMAC, then excavation will be backfilled

If the sampling program demonstrates a release it will be reported to the NMOCD on a C-141.

Disposal Facility Name and Permit Number

The excavated materials will be disposed of at Lea Land Inc. Permit # WM-1-035

Soil Backfill and Cover Design Specifications

The excavation will be backfilled with compacted, non-waste containing, earthen material; covered and contoured with topsoil consistent with the background thickness of topsoil or one foot of suitable material, whichever is greater.

Re-vegetation Plan

The area will be reseeded when the weather conditions are favorable for the establishment of vegetation.

Site Reclamation Plan

The location will be restored to its original condition prior to oil and gas operations. It will be recontoured in order to blend with the surrounding topography.