District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

Instructions: P.

State of New Mexico Energy Minerals and Natural Resources

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



Form C-144 July 21, 2008

For temporary pits, closed-loop sytems, 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:	X 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
lease submit one	application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
	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: Burlington Resources Oil & Gas Company, LP OGRID#: 14538					
Address: PO Box 4289, Farmington, NM 87499					
Facility or well name: MANGUM 8					
API Number: 3004525785 OCD Permit Number:					
U/L or Qtr/Qtr: K Section: 33 Township: 29N Range: 11W County: San Juan Center of Proposed Design: Latitude: 36.68072°N Longitude: -107.99743°W NAD: X 1927 1983 Surface Owner: Federal State X Private Tribal Trust or Indian Allotment					
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D					
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 PVD Other Liner Seams: Welded Factory Other					
X Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X 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 X Other Unspecified					
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.					

Form C-144

Oil Conservation Division

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12/22/2003

6		Page 2
Fencing: Subsection D of 19.15.17.11 NMAC (Appears to permanent pit, 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 Four foot height, four strands of barbed wire evenly spaced between one and four feet	al, institution or c	hurch)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.		1-1
7 Company Objects of the company of		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		The second second second second
X Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)		
Signer Subsection Cost 10 15 17 11 NRAIG		
Signs: Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X 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:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for (Fencing/BGT Liner)	consideration of	approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. 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. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
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	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial		XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐Yes ☐NA	XNo
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	□NA	
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)	□NA □Yes	X 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 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	□NA	
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Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	NA Yes XNA	□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 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal 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.	NA Yes XNA	□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 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal 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. 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	□ NA □ Yes □ X NA □ Yes	□No XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal 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. 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 Within 500 feet of a wetland.	□ NA □ Yes □ X NA □ Yes	□No XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal 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. 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 Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine.	□ NA □ Yes □ X NA □ Yes □ Yes	□No XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal 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. 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 Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	□ NA □ Yes □ X NA □ Yes □ Yes □ Yes □ Yes	No XNo XNo XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal 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. 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 Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	□ NA □ Yes □ X NA □ Yes □ Yes □ Yes	No No XNo

Oil Conservation Division

Page 2 of 5

Hydrogeologic Report (Electrong and Emals) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data Cremporary and Emergency Pits) - based upon the appropriate requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Stiting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.1 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.1 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.1 NMAC Stoperating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.1 NMAC Previously Approved Design (attach copy of design) API or Permit Or Or Permit Or Or Or Permit Or Or Permit Or Or Or Permit Or Or Or Permit Or Or Or Permit Or Or Or Or Permit Or Or Or Or Permit Or Or Or Permit Or Or Or Or Permit Or Or Or Permit Or	Temporary Pits, Emergency Pits and Bo	elow-grade Tanks	Permit Appl	ication Attachme	nt Checklist: Subsection B of 19.15.17.9 NMA	AC .
Siting Circine Complance Demonstrations - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9	mistractions. Each of the following tiems must	be attached to the ap	plication. Plea	ase indicate, by a ch	eck mark in the box, that the documents are attac	hed.
Sing Citieria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	Hydrogeologic Report (Below-grade	Tanks) - based up	on the require	ements of Paragrap	h (4) of Subsection B of 19.15.17.9 NMAC	
So Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.19 NMAC	Siting Criteria Counting D	d Emergency Pits)	based upon t	the requirements of	Paragraph (2) of Subsection B of 19.15.17.9)
S Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC						
Sectionary 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)						
Previously Approved Design (and to 19.15.17.15 NMAC						
Coolege Cool	2 Closure Plan (Please complete Boxe 19.15.17.9 NMAC and 19.15.17.13	es 14 through 18, if NMAC	applicable) -	based upon the app	ropriate requirements of Subsection C of	
Closed-loop Systems Permit Application Attachment Checklist; Subsection B of 19.15.17.9 NMAC	Previously Approved Design (attach cop	by of design)	API		or Permit	
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 Previously Approved Operating and Maintenance Plan API Cartified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Cartified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Caulity Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oli Field Waste Stream Characterization Monitoring and Inspection Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.19 NMAC and 19.15.17.13 NMAC Protocod Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.19 NMAC Protocod Closure Method: Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) Calcium Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate	Closed-loop Systems Permit Application Instructions: Each of the following items must Geologic and Hydrogeologic Data (compliance Demonstructions) Design Plan - based upon the appropriate Compliance Demonstruction (compliance Demonstruction)	be attached to the app only for on-site closs trations (only for on oriate requirements	olication. Plea. ure) - based u -site closure) of 19.15.17.1	se indicate, by a checopon the requirement - based upon the all NMAC	ck mark in the box, that the documents are attached to of Paragraph (3) of Subsection B of 19.15 ppropriate requirements of 19.15.17.10 NMA	5.17.9
Previously Approved Design (attach copy of design) API Previously Approved Design (attach copy of design) Previously Approved Design (attach						
Previously Approved Operating and Maintenance Plan API	NIVIAC and 19.13.17.13 NMAC		ipplicable) - t	pased upon the app	ropriate requirements of Subsection C of 19.	15.17.9
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 (I) of Subsection B of 19,15,17,10 NMAC String 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 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 H2S, Prevention Plan Emergency Response Plan Emergency Response Plan Emergency Response 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 Arthough Plan Protection Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19,15,17,13 NMAC Arthough Plan Drilling Workover Emergency Cavitation P&A Permanent Pit Report Plan Closure Method Report Plan Plan Plan On-site Closure Method (Only for temporary pits and closed-loop systems only On-site Closure Method (Only for temporary pits and closed-loop systems) On-site Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau			API			
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 (I) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Cirrifact Engineering Design Plans - 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 H2S, Prevention Plan Emergency Response Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC **Troposed Closure** [19.15.17.13 NMAC** **Troposed Closure** [19.15.17.13 NMAC** Drilling Workover Emergency Cavitation P&A Permanent Pit Melow-grade Tank Closed-loop System Closure Plan Papica Burial On-site Trench Alternative On-site Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Alternative Closure Method (Exceptions fo	Previously Approved Operating and Mai	intenance Plan	API			
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Special Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System	Instructions: Each of the following items must Hydrogeologic Report - based upon to Siting Criteria Compliance Demonstruction Climatological Factors Assessment Certified Engineering Design Plans - Dike Protection and Structural Integructural Leak Detection Design - based upon Liner Specifications and Compatibility Quality Control/Quality Assurance Cumperating and Maintenance Plan - bautheauthors of Hazardous Odors, including Emergency Response Plan Oil Field Waste Stream Characterizate Monitoring and Inspection Plan Erosion Control Plan	the attached to the applies the requirements of rations - based upon the applity Design: based upon the appropriate requirements of the appropriate requiry Assessment - based upon the appropriate appropriate requirements of the appropriate requirements o	Paragraph (I) the appropriate requirements of leed upon the allation Plan priate requirements of leed upon the allation Plan	ase indicate, by a characteristic of Subsection B of a requirements of 19.15. Supriate requirements 19.15.17.11 NMAC appropriate requirements of 19.15.17. Indicate requirements of 19.15.17. Indicate requirements of 19.15.17.	f 19.15.17.9 NMAC f 19.15.17.10 NMAC f 19.15.17.11 NMAC s of 19.15.17.11 NMAC ments of 19.15.17.11 NMAC f 19.15.17.11 NMAC	ached.
Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative Alternative Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	Proposed Closure: 19.15.17.13 NMAC	D. 144				
roposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) NMAC Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) NMAC	Type: Drilling Workover Emerg	gency Cavitation	n P&A	Permanent Pit	Sure plan. X Below-grade Tank Closed-loop System	m
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Solution and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Solution and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Solution 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	roposed Closure Method: X Waste Excav. Waste Remov	val (Closed-loop syst	ems only)		ystems)	
Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Lease indicate, by a check mark in the box, that the documents are attached. The Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC The Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC The Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) The Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC The Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	5 (2) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4					
Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Rease indicate, by a check mark in the box, that the documents are attached. The Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC The Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC The Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) The Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC The Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	Alternative C	losure Method (Exce	eptions must b	be submitted to the	Santa Fe Environmental Bureau for considerati	ion)
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	 Protocols and Procedures - based upon Confirmation Sampling Plan (if applications) Disposal Facility Name and Permit Nu 	the appropriate requable) - based upon to imber (for liquids, d	uirements of the appropriat rilling fluids	19.15.17.13 NMA te requirements of S and drill cuttings)	C Subsection F of 19.15.17.13 NMAC	e closure plan.
	X Re-vegetation Plan - based upon the ap	propriate requireme	ents of Subsec	ction I of 19.15.17	13 NMAC	

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rvice and op	perations?
Requests rej anta Fe Envir	garding changes to conmental Bureau offici
Yes	□No
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Yes	
∐N/A	_
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Yes	No
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Yes	Пио
Yes	No
Yes	No
.17.11 NM.	AC
	an. Please

19 *	
Operator Applicat	
I hereby certify that th	ne information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print):	Crystal Tafoya Title: Regulatory Technician
Signature:	Constal Talona Date: 12/22/2008
e-mail address:	crystal fafoya@conocophillips.com Telephone: 505-326-9837
	CONTROL OF THE CONTRO
	Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representativ	ve Signature:Approval Date:
Title:	OCD Permit Number:
Instructions: Operator report is required to be	quired within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC 's are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure e 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 has been obtained and the closure activities have been completed. Closure Completion Date:
If different from	ion and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) in approved plan, please explain.
23 <u>Closure Report Regar</u> Instructions: Please id were utilized.	eding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: lentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
Disposal Facility Na	ame: Disposal Facility Permit Number:
Disposal Facility Na	
Were the closed-loo	p system operations and associated activities performed on or in areas that will not be used for future service and operations?
Yes (If yes, plea	ase demonstrate complilane to the items below)
Site Reclamation Soil Backfilling	red areas which will not be used for future service and operations: on (Photo Documentation) and Cover Installation
Re-vegetation A	Application Rates and Seeding Technique
the box, that the aoc	ttachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in cuments are attached.
	re Notice (surface owner and division)
	Notice (required for on-site closure)
	on-site closures and temporary pits)
	Sampling Analytical Results (if applicable)
	Sampling Analytical Results (if applicable)
=	ty Name and Permit Number
	g and Cover Installation
	Application Rates and Seeding Technique
	on (Photo Documentation)
On-site Closure	e Location: Latitude:NAD
perator Closure Ce tereby certify that the i e closure complies with	rtification: Information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that the half applicable closure requirements and conditions specified in the approved closure plan.
ame (Print):	Title:
gnature:	Date:
	Date.
mail address:	Telephone:

Oil Conservation Division

Page 5 of 5

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 29N Rang	e: 11W Sections:	
NAD27 X: Y:	Zone: Sear	ch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) C Non-I	Domestic C Domestic C All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report
Clear	Form iWATERS Menu Help	

WATER COLUMN REPORT 08/20/2008

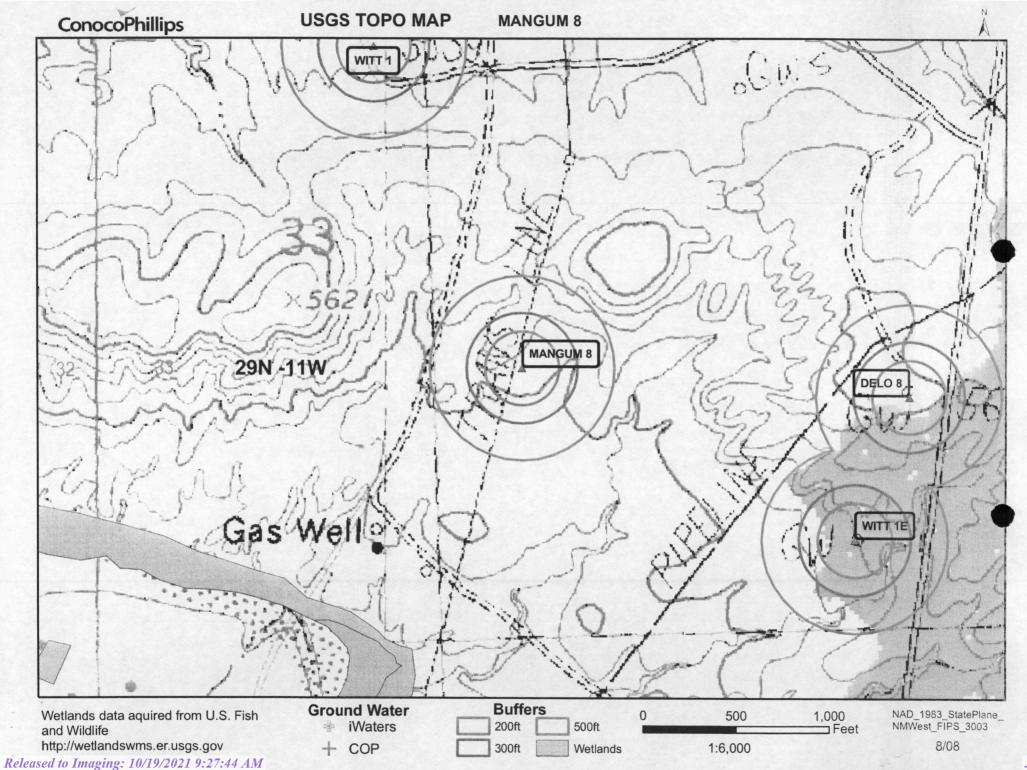
	(quarter	s are	1=	WM	2=N	E 3=SW	7 4=SE)					
	(quarter	s are	bi	gge	st	to sma	llest)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	q q	Zon	ie X	Y	Well	Water	Column	
SJ 00867	29N	11W	07	4					77	55	22	
SJ 01302	29N	11W	07	4	1				250	210	40	
SJ 01891	29N	11W	07	4	1 3				157			
SJ 01851	29N	11W	10	4	4				125	48	77	
SJ 02466 S	29N	11W	11	4	3 3				65			
SJ 02466	29N	11W	11	4	3 3				66			
SJ 02991	29N	11W	13	3	4 2				. 60			
SJ 03136	29N	11W	13	3	4 4				20			
SJ 00987	29N	11W	13	4					415	300	115	
SJ 01426	29N	11W	14	1	4				155	10	145	
SJ 00007	29N	11W	14	2	2 3				752			
SJ 03550	29N	11W	14	3	2 1				10			
SJ 01774	29N	11W	14	3	4 2				82	6	76	
SJ 03360	29N	11W	14	3	4 2				40			
SJ 03175	29N	11W	14	4	2 1				60	24	36	
SJ 03164	29N	11W		4	2 1				75	56	19	
SJ 03733 POD1	29N	11W	15	4	2 1				64	20	44	
SJ 02378	29N	11W	15	4	3 2				75	12	63	
SJ 03579	29N	11W	15		4 1				83	30	53	
SJ 02141	29N	11W			3 4				110	40	70	
SJ 02926	29N	11W			4 3				375	80	295	
SJ 03399	29N	11W	17	4	2				100			
SJ 00487	29N	11W	17	4	4				60	6	54	
SJ 02868	29N	11W	17	4	4 4				50			
SJ 01641	29N	11W	19	2	2 3				120	55	.65	
SJ 02026	29N	11W	19	3	1		440000	2077700	27	6	21	
SJ 02970	29N	11W	19	4	3 2				100	18	82	
SJ 01250	29N	11W	19	4	4				60	20	40	
SJ 02869	29N	11W	20	2	2 1				50			
SJ 00583	29N	11W	20	3	3 2				150	30	120	
SJ 01355	29N	11W	20	4	4				36	3	33	
SJ 00452	29N	11W							42	10	32	

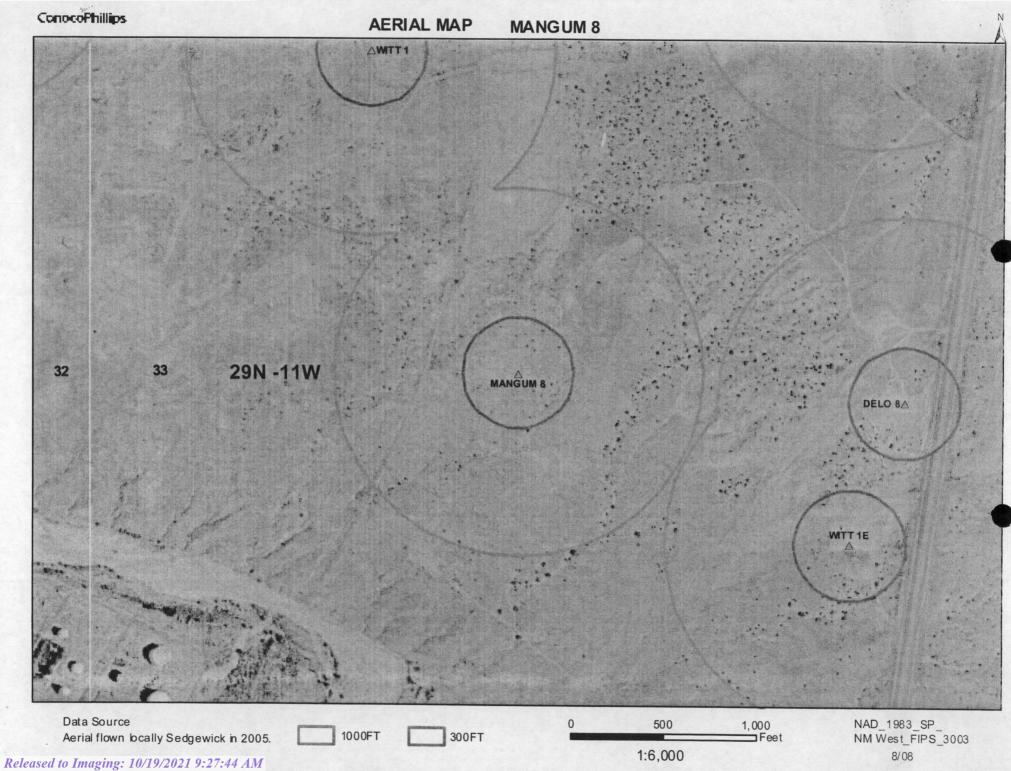
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SJ 00701 CLW312190	29N	11W 21	2	2		70	14	56
SJ 00701	29N	11W 21	2	2	1	73		
SJ 03350	29N	11W 21	2	2	3	50		
SJ 01090	29N	11W 21	2	4		31	12	19
SJ 02863	29N	11W 21	2	4	1	52	20	32
SJ 03659	29N	11W 21	3	2	2	45	10	35
SJ 01888	29N	11W 21	4	2	2	47	8	39
SJ 02200	29N	11W 22				60	22	38
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SJ 00796	29N	11W 22	1	2		50	8	42
SJ 00704	29N	11W 22	1	2		55	20	35
SJ 01703	29N	11W 22	1	2		68	3	65
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SJ 02813	29N	11W 22			3	59	16	43
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SJ 03532	29N	11W 22			3	49	14	35
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SJ 02578	29N	11W 22		3	3	58	24	34
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SJ 01962	29N	11W 24	1	2	2	45	12	33
SJ 03343	29N	11W 24		4		35	18	.17
SJ 00804	29N	11W 25		4		37	25	12
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SJ 02210	29N	11W 27	1			32	8	24
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SJ 02227	29N	11W 27	1			27	6	21
SJ 00700	29N	11W 27	1			20	7	13
55 00700	2 711	T T VV Z /	_	,		20	,	13

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SJ 01808 0-4	29N	11W 27	2	3	3		32	25	7
SJ 01808 0-1	29N	11W 27	2	4	2		25	17	8
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SJ 02664 S-9	29N	11W 27	3	2			33	19	14
SJ 02664 S-4	29N	11W 27	3	2			42	30	12
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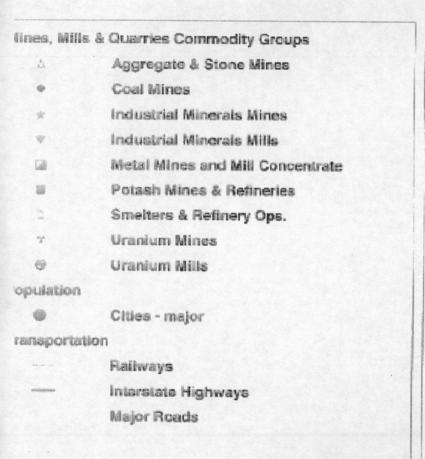


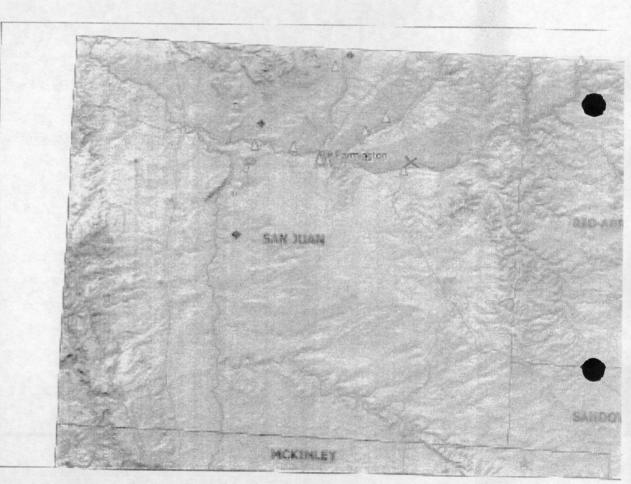


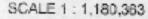
Mines, Mills and Quarries Web Map

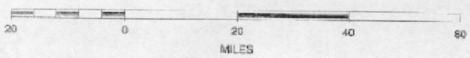
MANGUM 8

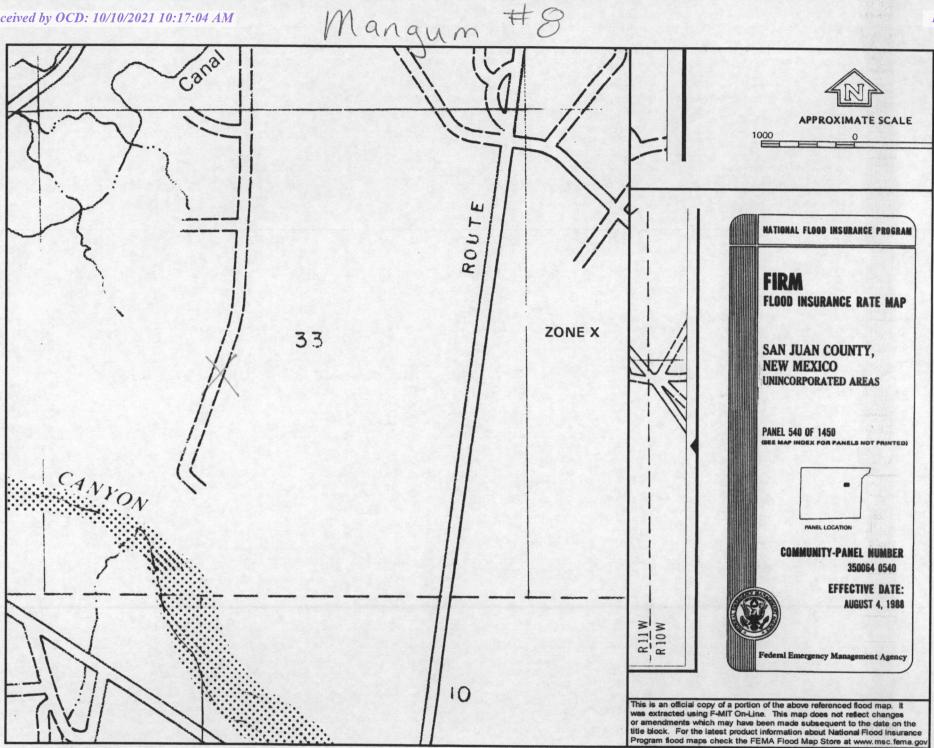
Unit Letter: K, Section: 33, Town: 029N, Range: 011W











MANGUM 8

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'MANGUM 8', which is located at 36.68072 degrees North latitude and 107.99743 degrees West longitude. This location is located on the Bloomfield 7.5' USGS topographic quadrangle. This location is in section 33 of Township 29 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Bloomfield, located 2.1 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 12.1 miles to the west (National Atlas). The nearest highway is US Highway 550, located 0.4 miles to the east. The location is on Private land and is 1,415 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1682 meters or 5516 feet above sea level and receives 9.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Mixed Bedrock Canyon and Tableland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 40 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 423 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 5,962 feet to the north. The nearest water body is 7,878 feet to the north. It is classified by the USGS as an sewage treatment pond and is 0.1 acres in size. The nearest spring is 10,498 feet to the southeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 977 feet to the west. The nearest wetland is a 79.2 acre Ravine located 1,702 feet to the southwest. The slope at this location is 3 degrees to the south as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 13.9 miles to the west as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography.

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval. Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water. However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207.

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

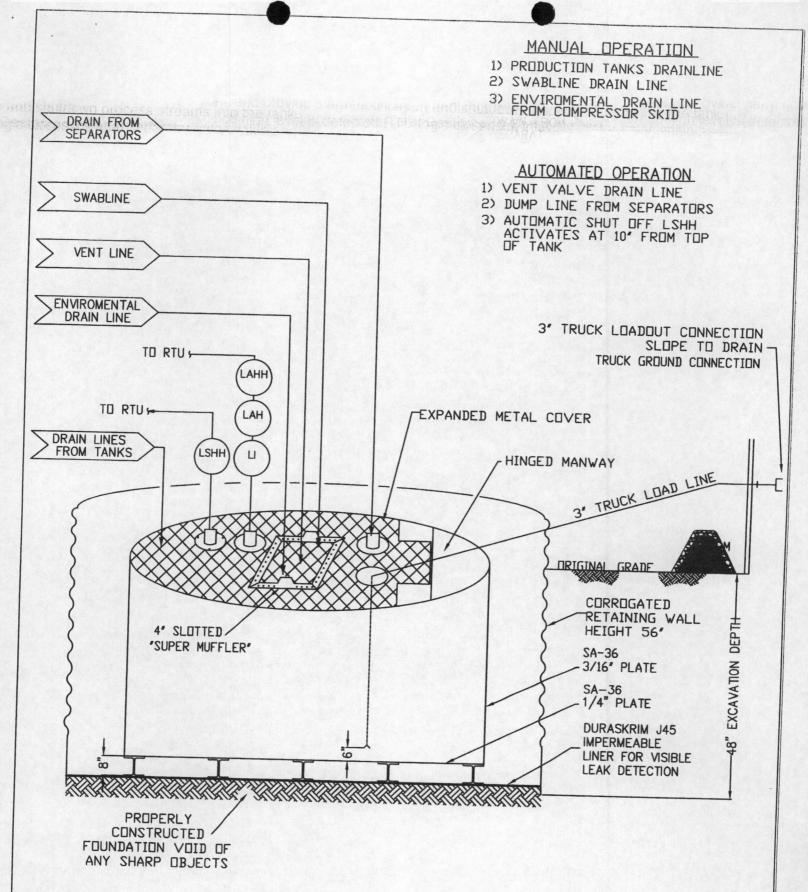
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- The BR below-grade tank system shall have a properly constructed foundation
 consisting of a level base free of rocks, debris, sharp edges or irregularities to
 prevent punctures, cracks or indentations of the liner or tank bottom as shown on
 design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- The general specification for design and construction are attached in the BR document.



ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK
OPEN TOP GRAVITY FLOW TANK
INTERNALLY COATED WITH
12-14 MILS AMERON AMERCOAT 385

DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J	30BB	J	86BB	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages	
Appearance		Bla	ck/Black	Blac	k/Black		k/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs	
Construction		**Ext	rusion laminated				(30.24)	
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf		
Maximum Use Temperature		180° F	180° F	180° F	180° F		99 lbf	
Minimum Use Temperature D = Machine Direction		-70° F	-70° F	-70° F	-70° F	180° F -70° F	180° F -70° F	

MD = Machine Direction
DD = Diagonal Directions



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

*Dimensional Stability Maximum Value

**DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX **800-635-3456**

08/06

RAVEN INDUSTRIES

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. These dates will be updated prior to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain
 the integrity of the liner, liner system and secondary containment system to
 prevent contamination of fresh water and protect public health and environment.
 BR will accomplish this by performing an inspection on a monthly basis, installing
 cathodic protection, and automatic overflow shutoff devices as seen on the
 design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on Burlington Resources Oil & Gas Company, LP locations hereinafter known as BR locations. This is BR's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

General Requirements:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 54951

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	54951
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water	
Please answer as many of these questions as possible in this group. More information will help us identify the appropriate associations in the system.	
Facility or Site Name	Not answered.
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	Not answered.
Well API, if associated with a well	Not answered.
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	Not answered.
Ground Water Impact	Not answered.
Ground Water Quality (TDS)	Not answered.

Below-Grade Tank	
Subsection I of 19.15.17.11 NMAC	
Volume / Capacity (bbls)	Not answered.
Type of Fluid	Not answered.
Pit / Tank Construction Material	Not answered.
Secondary containment with leak detection	Not answered.
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.
Visible sidewalls and liner	Not answered.
Visible sidewalls only	Not answered.
Tank installed prior to June 18. 2008	Not answered.
Other, Visible Notation. Please specify	Not answered.
Liner Thickness (mil)	Not answered.
HDPE (Liner Type)	Not answered.
PVC (Liner Type)	Not answered.
Other, Liner Type. Please specify (Variance Required)	Not answered.

Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tank	s)
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)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	Not answered.

Netting	
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen	Not answered.
Netting	Not answered.
Other, Netting. Please specify (Variance May Be Needed)	Not answered.

Signs

Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)

	12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
I	Signed in compliance with 19.15.16.8 NMAC	Not answered.

Variances and Exceptions	
Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank:	
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.

Siting Criteria (regarding permitting)

19.15.17.10 NMAC

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

Siting Criteria, General Siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	Not answered.
NM Office of the State Engineer - iWATERS database search	Not answered.
USGS	Not answered.
Data obtained from nearby wells	Not answered.

Siting Criteria, Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	Not answered.
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	Not answered.

Proposed Closure Method	
Below-grade Tank	Below Grade Tank - (BGT)
Waste Excavation and Removal	Not answered.
Alternate Closure Method. Please specify (Variance Required)	Not answered.

Operator Application Certification	
Registered / Signature Date	Not answered.

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ACKNOWLEDGMENTS

Action 54951

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	54951
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

1	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.	
$\overline{\checkmark}$	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.	

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CONDITIONS

Action 54951

CONDITIONS

Operator:	OGRID:	
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CONDITIONS

Created By	Condition	Condition Date
cwhitehead	Due ground water reported at less then 50 feet for a BGT registered prior to 2008, a modification or closure is required within 120 days	10/19/2021