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

District III

District IV

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 June 16, 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

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 ordinance.

environment. Nor does approval relieve the operator of its responsibility to comply v	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	RCVD JUL 14'08
Facility or well name: San Juan 27-5 Unit #59G	OIL CONS. DIV.
API Number: 30-039-30545 O	CD Permit Number: DIST. 3
U/L or Qtr/Qtr: H(SENE) Section: 6 Township: 27N	Range: 5W County: Rio Arriba
	Longitude: 107.277182' W NAD: 1927 X 1983
Surface Owner: X Federal State Private Trib	pal Trust or Indian Allotment
X Pit: Subsection F or G of 19.15.17.11 NMAC	Closed-loop Systems: Subsection H of 19.15.17.11 NMAC
Temporary: X Drilling Workover	Drying Pad Tanks Haul-off Bins Other:
Permanent Emergency X Cavitation	Lined Unlined
X Lined Unlined	Liner type: Thickness mil LLDPE HDPE PVC
Liner type: Thickness 20 mil X LLDPE HDPE PVC	Other:
Other <u>X</u> String-Reinforced	Seams: Welded Factory Other:
Seams: X Welded X Factory Other	Volume:bblyd3
Volume: <u>7000</u> bbl Dimensions: L <u>120'</u> xW <u>55'</u> xD <u>12'</u>	Dimernsions: Lengthx Width
X Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15 17.11 NMAC
Volume: 120 bbl	Chain link, six feet in height, two strangs of barbed wire at top
Type of fluid: Produced Water	Four foot height, four strands of barbed wire evenly spaced between
Tank Construction Material: Metal	one and four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11
X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	X Screen Other
Visible sidewalls and liner	X Monthly inspections
Visible sidewalls only	Signs: Subsection C of 19.15.17 11 NMAC
Other:	12"x 24", 2" lettering, provided Operator's name, site location, and
Liner type: Thickness: 60 mil X HDPE PVC	emergency telephone numbers
Other:	X Signed in compliance with 19.15.3.103 NMAC
Alternative Method:	Administrative Approvals and Exceptions:
Submittal of an exception request is required. Exceptions must be	Justifications and/or demonstrations of equivalency are required. Please
submitted to the Santa Fe Environmental Bureau office for consideration	refer to 19.15.17 NMAC for guidance.
of approval.	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 or the Santa Fe Environmental Bureau
	office for consideration of approval. (Fencing in Design Plan) Exception(s): Requests must be submitted to the Santa Fe
	Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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	X No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA	
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.	Yes	X No
- NM Office of the State Engineer - IWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo
 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	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	□Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map 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 de		e attached.
X 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 Maintence Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	NMAC	
Previously Approved Design (attach copy of API Number: or Permit		
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 dattached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC	.15.17.9	re
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan - 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 API Number:		

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			
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 H2S, 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			
Type: X Drilling Workover Emergency X Cavitation Permanent Pit X Below-grade Tank Closed-loop System Alteri	native		
Proceed Classes VWsets Execution and Bosses (Relative and T. 1)			
Proposed Closure X Waste Excavation and Removal (Below-grade Tank)			
▼On-site Closure Method (only for temporary pits and closed-loop ▼In-place On-site Trench			
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau f	or.		
Atternative Closure Method (Exceptions must be submitted to the Santa re Environmental Bureau r			
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. Recommentations 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. Justification 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 burned waste	X Yes No		
- NM Office of the State Engineer - iWATERS database serach; USGS; Data obtained from nearby wells	∏NA □		
Ground water is more than 100 feet below the bottom of the buried waste.	☐Yes ☐No		
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	XNA		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lal	Yes X No		
(measured from the ordinary high-water mark).			
- Topographic map; Visual inspection (certification) of the proposed site			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes X 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.	Yes X No		
NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site			
• • • • • • • • • • • • • • • • • • • •	□v ⊽ v		
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 X No		
Within 500 feet of a wetland.			
proposed site	—		
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes X No		
Within an unstable area. Engineering measures incorporated into the design; NM Pureau of Coolean & Minaral Passurage, USCS, NM	Yes X No		
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 			
Within a 100-year floodplain	Yes X No		

Page 3 of 4

	7.13 NMAC) Instructions: Each of the following items must be attached			
to the closure plan. Please indicfate, by a check mark in the box, that the docume				
Protocols and Procedures - based upon the appropriate requirem	· ·			
Confirantion 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)				
	appropriate requirements of Subsection H of 19.15 17.13 NMAC			
Re-vegetation Plan - based upon the appropriate requirements o				
Site Reclamation Plan - based upon the appropriate requirement	ts of Subsection G of 19.15.17.13 NMAC			
W. A. D. L. C. C. L. L. C. A. M. A. L. C. L. M. A. L. L. M. A. L. L. M. L. L. M. L. L. M. L.	L CONT. O. L.			
Waste Removal Closure for Closed-loop Systems That Utilize Hat facilities for the disposal of liquids, drilling fluids and drill cuttings.	ul-off Bins Only: (19.15.17 13.D NMAC) Instructions: Please identify the facility or			
Disposal Facility Name:	Disposal Facility Permit Number:			
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each check mark in the box, that the documents are attached.	th of the following items must bee attached to the closure plan. Please indicate, by a			
X Siting Criteria Compliance Demonstrations - based upon the ap	propriate requirements of 19.15.17.10 NMAC			
Proof of Surface Owner Notice - based upon the appropriate rec				
X Construction and Design of Burial Trench (if applicable) based	upon the appropriate requirements of 19 15.17.11 NMAC			
Protocols and Procedures - based upon the appropriate requiren	ments of 19.15.17.13 NMAC			
X Confirmation Sampling Plan (if applicable) - based upon the applicable)	propriate requirements of Subsection F of 19.15.17.13 NMAC			
X Waste Material Sampling Plan - based upon the appropriate req	nurements of Subsection F of 19.15 17 13 NMAC			
X Disposal Facility Name and Permit Number (for liquids, drilling	g fluids and drill cuttings or in case on-site closure standards cannot be			
X Soil Cover Design - based upon the appropriate requirements of	f Subsection H of 19.15.17.13 NMAC			
X Re-vegetation Plan - based upon the appropriate requirements of	of Subsection I of 19.15.17 13 NMAC			
X Site Reclamation Plan - based upon the appropriate requirement	its of Subsection G of 19.15.17.13 NMAC			
Operator Application Certification:				
I hereby certify that the information submitted with this application is true,	accurate and complete to the best of my knowledge and belief.			
Name (Print) Crystal Tafoya	Title. Regulatory Technician			
Signature motal talona	Date: 7/14/2008			
e-mail address crystal tafoya@conocophillus.com	Telephone. 505-326-9837			
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)			
	Closure Plan (only) Approval Date: 7/15/08			
	OCD Permit Number			
OCD Representative Signature: Brandon Welle Title: Enviro/spec	OCD Permit Number			
OCD Representative Signature: Brandon Welle Title: Enviro/spec	OCD Permit Number of 19 15 17 13 NMAC			
OCD Representative Signature: Brandon Bulk Title: Enviro Spec Closure Report (required within 60 days of closure completion): Subsection K of the second	OCD Permit Number of 19 15 17 13 NMAC			
OCD Representative Signature: Brandon Bull Title: Enviro Spec Closure Report (required within 60 days of closure completion): Subsection K of Closure Method:	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date:			
OCD Representative Signature: Title: Enviro/Spec Closure Report (required within 60 days of closure completion): Subsection K of the Closure Method: Waste Excavation and Removal If different from approved plan, please explain	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date:			
OCD Representative Signature: Squardon Full Title: En Jiro Spec Closure Report (required within 60 days of closure completion): Subsection K of the Squard Squ	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure			
Closure Method: Waste Excavation and Removal On-Site Closure Glosure Report Attactment Checklist: Instructions: Each of the following box, that the documents are attached. Proof of Closure Notice	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure			
OCD Representative Signature: Squardon Full Title: En Jiro Spec Closure Report (required within 60 days of closure completion): Subsection K of the Squard Squ	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure			
Closure Method: Waste Excavation and Removal On-Site Closure Closure Report Attactment Checklist: Instructions: Each of the following box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable)	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure			
Closure Report (required within 60 days of closure completion): Subsection K of Closure Method: Waste Excavation and Removal On-Site Closure If different from approved plan, please explain Closure Report Attactment Checklist: Instructions: Each of the following box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure			
Closure Report (required within 60 days of closure completion): Subsection K of Closure Method: Waste Excavation and Removal On-Site Closure If different from approved plan, please explain Closure Report Attactment Checklist: Instructions: Each of the following box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure			
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Closure Report (required within 60 days of closure completion): Subsection K of Closure Report (required within 60 days of closure completion): Subsection K of Closure Method: Waste Excavation and Removal On-Site Closure If different from approved plan, please explain Closure Report Attactment Checklist: Instructions: Each of the following box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Latitude: Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure region.	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Ing items must be attached to the closure report. Please indicate, by a check mark in the Longitude: NAD 1927 1983 port is true, accurate and complete to the best of my knowledge and belief I also certify that the			
Closure Report (required within 60 days of closure completion): Subsection K of Closure Report (required within 60 days of closure completion): Subsection K of Closure Method: Waste Excavation and Removal On-Site Closure If different from approved plan, please explain Closure Report Attactment Checklist: Instructions: Each of the follows box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Latitude:	Approval Date: 7/15/08 OCD Permit Number of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Ing items must be attached to the closure report. Please indicate, by a check mark in the Longitude: NAD 1927 1983 port is true, accurate and complete to the best of my knowledge and belief I also certify that the			
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Township: 27	N Range: 05W	Sections: 6,5	5,7,8		
NAD27 X:	Y:	Zone:		Search Radius:	
County:	Basin:			Number:	Suffix:
Owner Name: (First)	(L	ast) ② All		○ Non-Domestic	ODomestic
POD /	Surface Data Repor	ter Column Repo		o Water Report	
	Clear Form	iWATERS Me	enu [Help	
and the state of t	W	ATER COLUMN R	EPORT (07/10/2008	
· 	ers are 1=NW 2: ers are biggest s Rng Sec q q	t to smallest	-	Depth Y Well	Depth Wate Water Colum

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Township	27N Range: 06	W Sections:	1,12		-	
NAD27 X:	Y:	Zone:	⊠ S	earch Radius:		
County:	Basin:			Number:	Suffix:	
Owner Name: (First))	(Last)	. ©	Non-Domestic	○ Domest	ic
P	OD / Surface Data Re	eport A		Water Report	ind	
	Clear Form			elp		
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POD Number	Tws Rng Sec	-	х	Y Well	_	olun

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		- 0	ports and bott			
Towns	hip: 28N	Range: 06W	Sections: 36		-	-
NAD27	X:	Y: 1	Zone:		Search Radius:	
County:	Į.	Basin:			Number:	Suffix:
Owner Name: (F	irst)	(1)	∟ast) ⊚All		○ Non-Domestic	ODomestic
	POD / Surf	ace Data Repo	ater Column Repor	t	o Water Report Help	
POD Number		are 1=NW 2	VATER COLUMN R RENE 3=SW 4=SE St to smallest)	07/10/2008 Depth Y Well	Depth Wate

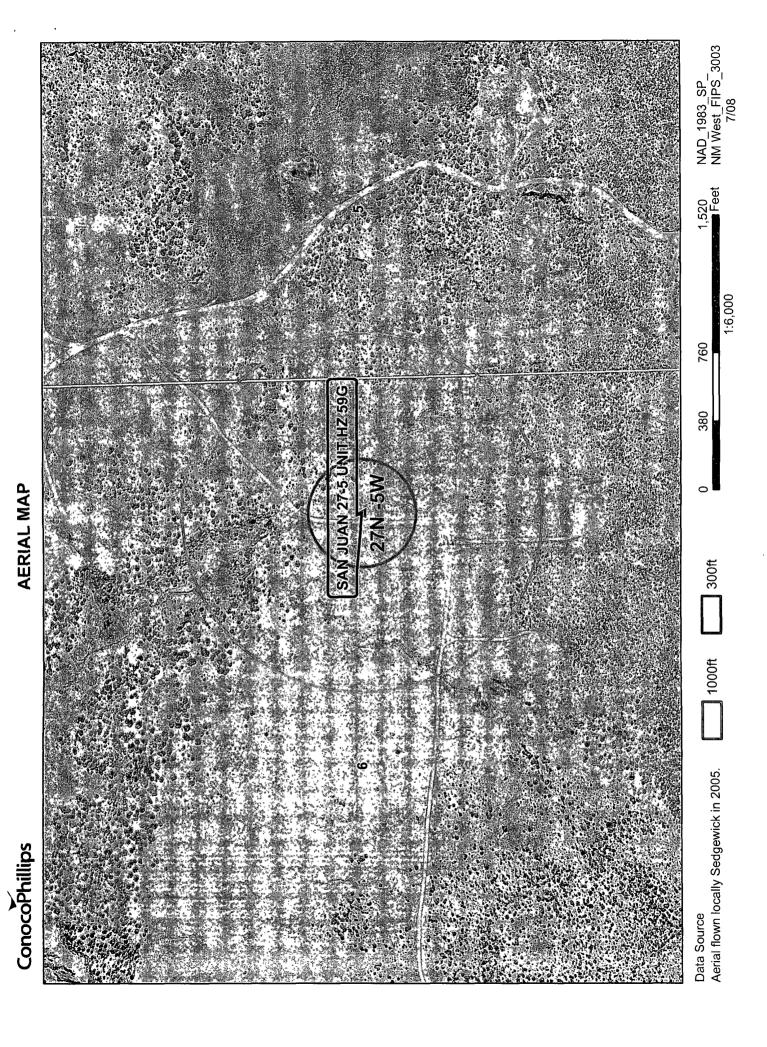
No Records found, try again

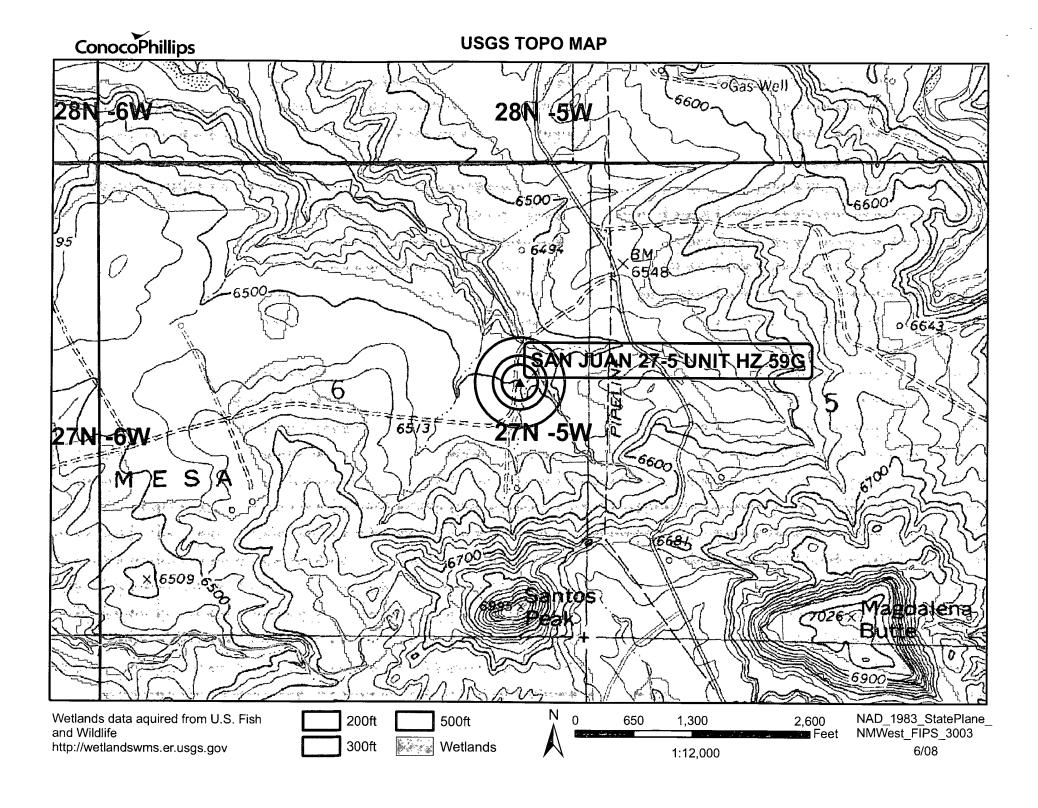
Township: 27N	Range: 06W Sections: 31,3	2
NAD27 X:	Y: Zone:	Search Radius:
County:	Basin:	Number: Suffix:
Owner Name: (First)	(Last)	ONon-Domestic ODomestic
POD / Sur	face Data Report Avg Water Column Report	Depth to Water Report
	Clear Form WATERS Mer	iu. 🖫 Help

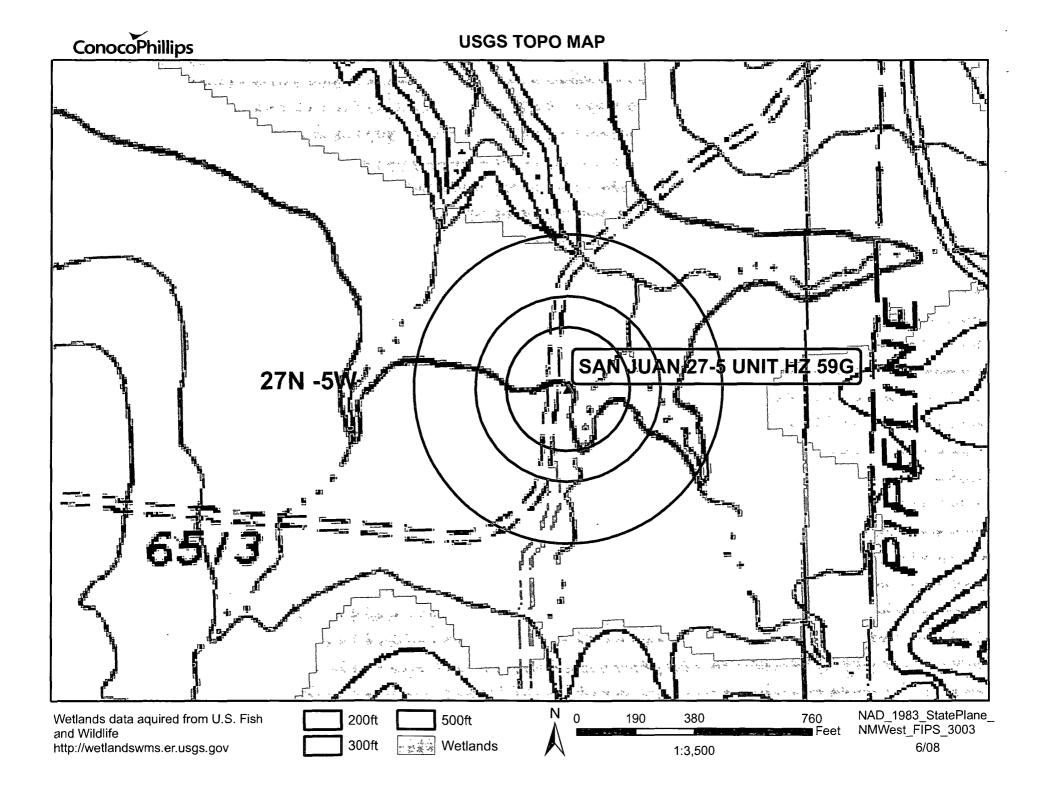
WATER COLUMN REPORT 07/10/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Wat∈ POD Number Tws Rng Sec qqq Zone x Well Water Colum SJ 00213 27N 06W 32 1 4 4 1308 485 82 27N 3 3 3 15 SJ 00062 06W 32 452 301 27N 06W 32 3 3 3 445 301 14 SJ 00061

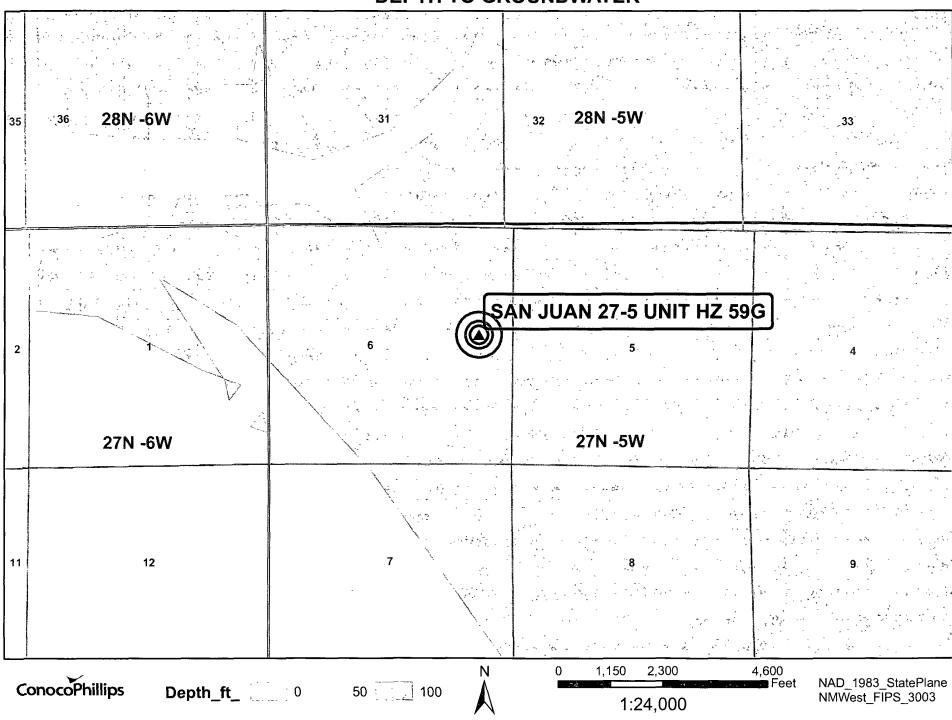
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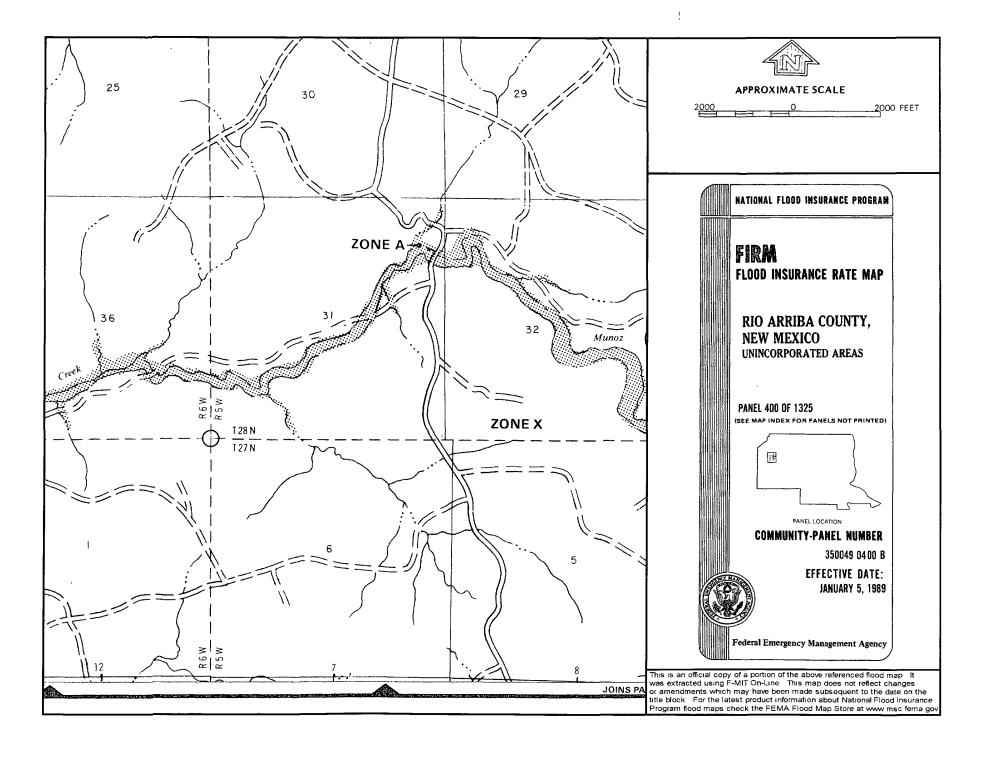






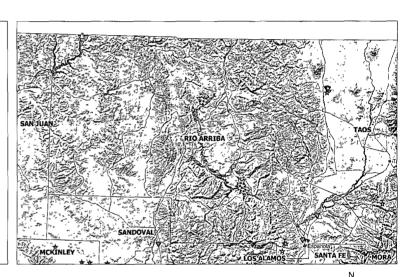
DEPTH TO GROUNDWATER

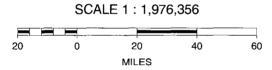




San Juan 27-5 Unit #59G Mines, Mills and Quarries Web Map

nes, Mill	s & Quarries Commodity Groups
Δ	Aggregate & Stone Mines
•	Coal Mines
*	Industrial Minerals Mines
•	Industrial Minerals Mills
Z	Metal Mines and Mill Concentrate
	Potash Mines & Refineries
	Smelters & Refinery Ops.
*	Uranium Mines
•	Uranium Mills







Siting Criteria Compliance Demonstrations

The San Juan 27-5 Unit 59G is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

DISTRICT I 1826 N. French Dr., Hobbs, N.M. 08240 State of New Mexico

Energy, Minerals & Natural Resources Department

Submit to Appropriate District Office

State Lease - 4 Copies

DESTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Axten, N.M. 87410

1220 South St. Francis Dr. Santa Fe, NM 67505 Bureau of Land Management Farmington Field Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, HM 87505

MENDED REPORT

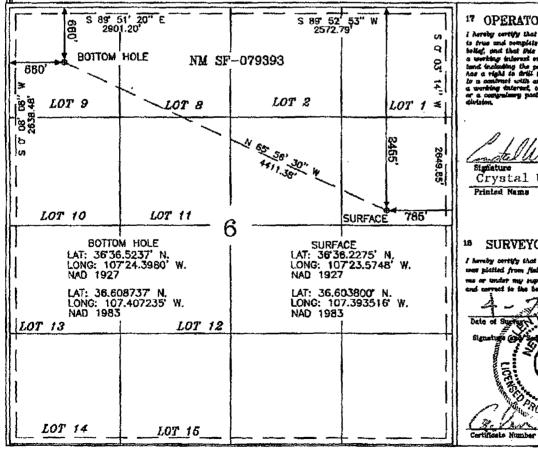
WELL LOCATION AND ACREAGE DEDICATION PLAT

				
API Number	* Poel Code		*Post Name	
30-039-	71599	BASIN	DAKOTA	
*Property Code	*Property Ho	Property Hame		* Well Mumber
7454	SAN JUAN 27-5	SAN JUAN 27-5 UNIT HZ		59G
OGRED No.	*Operator N	eris .		Elevation
1.4538	BURLINGTON RESOURCES OIL	& GAS COMPAN	Y LP	6501

18 Surface Location North/South line III. or let no. Section Lot Ida Fast from the Fest from the East/Vest line Township Range County 6 27-N 5-W **NORTH** 785 EAST RIO ARRIBA 2455 Н " Bottom Hole Location If Different From Surface. UL or lot no. Lot Idu Foot from the North/South line Feet from the Bast/West line Section Township Range County 660' RIO ARRIBA D 6 27-N 5-W NORTH 660' WEST

Dadicated Acres
DK 342.38 ACRES W 1/2 ioint or infili 14 Consulidation Code U Order No. DK 319.69 ACRES € 1/2

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



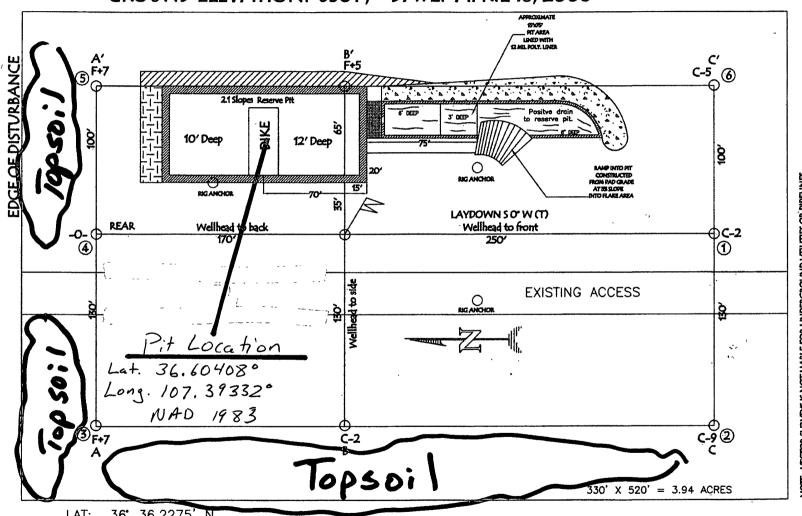
17 OPERATOR CERTIFICATION

I hereby certify that the information containes h I hereby certify that the information concesses norms is true mad benefit to the best of my knowledge and belief, and that this organization either evens a weeking interest or informed netword interest in the land technique the proposed believe hale location or has a right to drift this well of this leastion purvious to a contraint with an ouner of ruch a wherein with an ouner of ruch a whenth with the owner of the a whenth with the owner of the a whenth with the owner of the a whenth withing therein, or to a weakless greater whenth of the or a commitment pacified order hereinform maked by the

4-28-08 Crystal Walker

SURVEYOR CERTIFICATION

BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 27-5 UNIT HZ 59G, 2455' FNL & 785' FEL SECTION 6, T-27- N, R-5-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6501', DATE: APRIL 18, 2008

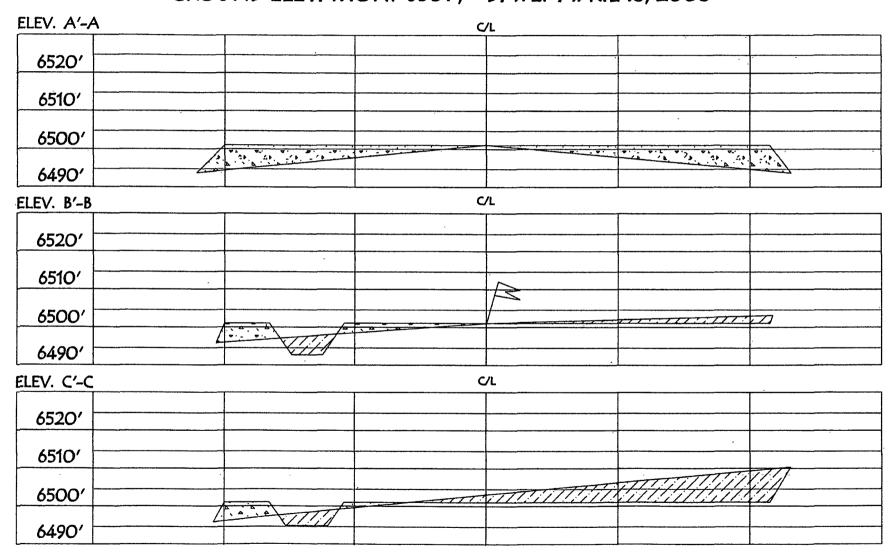


NOTE: VECTOR SURVEYS IS NOT LLABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNIMARKED BURIEI

LAT: 36° 36.2275' N LONG: 107° 23.5748' W

LONG: NAD27

BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 27-5 UNIT HZ 59G, 2455' FNL & 785' FEL SECTION 6, T-27- N, R-5-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6501', DATE: APRIL 18, 2008



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED.

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Burlington Resources Oil & Gas Company, LP San Juan Basin Pit Design and Construction Plan

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

- 1. BR will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator; the location of the well site by unit letter, section, township range; and emergency telephone numbers.
- 4. BR shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. BR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- BR shall construct the pit so that the slopes are no steeper than two horizontal feet to 1 vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. BR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. BR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. BR will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with the same 20 mil liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. BR will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

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

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

- 1. BR will operate and maintain a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. BR will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. BR will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, BR shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels BR shall notify the Aztec Division office 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.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. BR shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. BR will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling or workover operations, BR will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. BR will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling or workover operations, BR will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at BR's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. BR shall maintain at least two feet of freeboard for a temporary pit.
- 14. BR shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.
- 15. BR shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. BR may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

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

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

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 pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

- 1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division—approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves.
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit as per the approved closure plan using certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure 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.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	1000/500
	<u> </u>	

9. A five point composite sample will be taken from the cavitation pit pursuant to 19.15.17.13(B)(1)(b)(i) in order to assure there has not been any type of release.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	500

- 10. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. 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. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
- 11. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
- 12. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
- 13. 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.
- 14. Notification will be sent to OCD when the reclaimed area is seeded.
- 15. 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 or Forest Service stipulated seed mixes will used on federal 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. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Туре	Variety or Cultivator	PLS/A
Western wheatgrass	Arriba	3.0
Indian ricegrass	Paloma or Rimrock	3.0
Slender wheatgrass	San Luis	2.0
Crested wheatgrass	Hy-crest	3.0
Bottlebrush Squirreltail	Unknown	2.0
Four-wing Saltbrush	Delar	.25

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100

Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)

Purity

Source No. two (better quality)

Purity

Source No. two (better quality)

Purity

80 percent

Germination

40 percent

Percent PLS

20 percent

Percent PLS

Source No. two (better quality)

Purity

80 percent

Percent PLS

50 percent

5 lb. bulk seed required to make 2 lb. bulk seed required to make

1 lb. PLS 1 lb. PLS

16. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

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

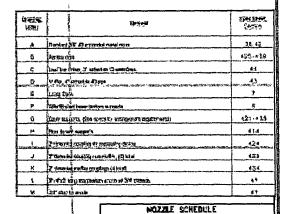
In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does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

- 1. BR will design and construct a BGT to contain liquids and to prevent contamination of fresh water and protect public health and environment.
- 2. BR will use the general location sign posted on location. If no general sign is posted a separate sign at the location of the BGT will be provided.
- 3. BR shall construct 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.
- 4. BR will construct a expanded metal covering on the top of the BGT
- 5. 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.
- 6. 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.
- 7. BR shall construct a below-grade tank to prevent overflow and the collection of surface water run-on.
- 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-shall-equip-below-grade tanks designed in this manner with a properly operating automatic high-level shut-off control device and manual controls to prevent overflows.
 - 10. The geomembrane liner shall consist of 30-mil flexible PVC or 60-mil HDPE liner, or an equivalent liner material that the appropriate division district office approves. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to

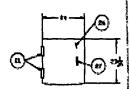
ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A.

11. The general specification for design and construction are attached in the BR document.

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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 Pit (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.

- 1. BR will operate and maintain a BGT to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. BR shall not allow a below-grade tank to overflow or allow surface water run-on to enter the below-grade tank.
- 3. BR shall continuously 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.
- 4. BR shall inspect the below-grade tank at least monthly and maintain a written record of each inspection for five years.
- 5. BR shall maintain adequate freeboard to prevent overtopping of the below-grade tank.

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

In accordance with Rule 19.15.17.12 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:

- BR shall close a below-grade tank within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- BR shall close an existing below-grade tank that does 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 of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. BR shall close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on C-144
- 4. 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.
- 5. BR shall 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.
- 6. 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.
- 7. 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.

- 8. 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.
- If contamination is confirmed by field sampling. BR will follow the Guidelines For Remediation Of Leaks, Spills, and Releases NMOCD August 1993 when remediating contaminants identified
- 10. 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.
- 11. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure 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.
- 12. 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 below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Details on Capping and Covering, where applicable.
 - Inspection Reports
 - Sampling Results
- 13. 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.
- 14. 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 or Forest Service stipulated seed mixes will used on federal 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. Repeat seeding or planting will be continued until successful vegetative growth occurs.

- 15. 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.
- 16. The surface owner shall be notified of BR's closing of the below-grade tank as per the approved closure plan using certified mail, return receipt requested.

Hydrogeological report for San Juan 27-5 Unit #59G

Regional Geological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation.

Hydraulic Properties:

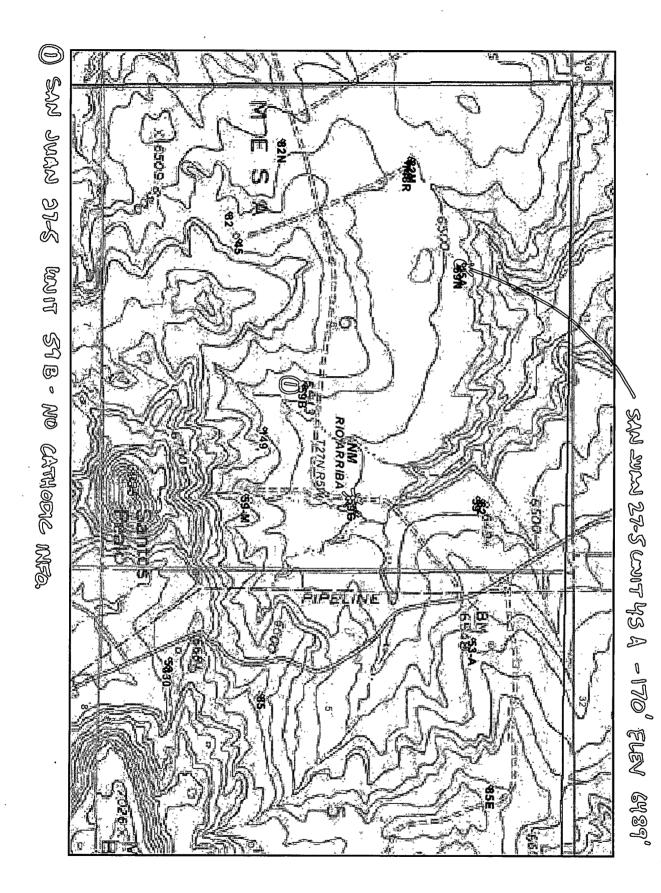
Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

References:

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

SAN JUHN 27-5 WNIT SIG (Surface: T-027N R-00SW Sec. 6 H) ELEV: 6547'



Form 3160-4 (November 1983) (formerly 9-330)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

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Form approved. Budget Bureau No. 1004-0137 Expires August 31, 1985

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4 LOCATION OF WE	Box 4289	tion clearly o	gton,	NM 0/	499 cith any	State r	equiremen:	(a) *		_ 10. 7			Mesa Vei	
4. LOCATION OF WI	190'N 20	040'W		۲	₹E	CE		ED					B BLOCK AND	
• •	terval reported	below			,	UĻ.1	9 1985				Sec NMF		T-27-N	, R-5
At total depth			ō				D MANA			-	OUNTY		13. STATE	
				11. 1575	KMINAO	HOM K		The characterist.	'	P	ABISH			
15. DATE SPUDDED	16. DATE T.D.	REACHED 1	7. DATE C	OMPL. (R	leady to	prod.)	1 18 11 11	ATIONS (I	OF DEB		io Ar		LEV. CASINGE	- dag
5-26-85	6-2-			5-27-8	_	•	10. 200		89 '		,		64891	
20. TOTAL DEPTH, MD				1 00		TIPLE CO	MPL.,	23 INT	ERVALS	ROTA	RY TO0	LS	CABLE TO	DLS
5930'		5911	, MD & TVI		HOW NA	01	ne	DRI	LLED BY	Rota	ary			
24. PRODUCING INTE	RVAL(S), OF TH	IS COMPLETIO	N-TOP, B	OTTOM, N	AME (M	D AND T	VD)*	 		<u></u>		25	WAS DIRECT	
	4242-56	₩ 49 (B1an	co Mes	a Ver	(ah								NO	-
26. TYPE ELECTRIC			nor. n	TOCK C	ח						}	27. W	18 WELL COR	ID.
	k; Dual I	na. GR;											NO	
28.	WEIGHT, L	B./FT. DE	CASING			E SIZE	rings set i		IENTIN	RECORD		 -	AMOUNT PU	II to
9 5/8"	36		233	<u>` </u>		3/4"		142				AMOUNT FO		
7''	$-\frac{30}{20}$		l					286						
						-, .								
								······································						
29.		LINER RE	CORD					30.		TUBIN	G REC	ORD		
SIZE	TOP (MD)	воттом (MD) S	ACKS CEM	ENT*	SCREEN	(MD)	SIZE		DEPTH	SET (M	(D)	PACKER SET	(MD)
4 1/2"	3449	5930		,	cu_f			2 3/	8''	585	9	<u> </u>		
31. PERFORATION RE	COED (Interval,	size and nun	iber) Per	rf'd 1	st	82.	AC	ID, SHOT	, FRAC	TURE. C	EMEN'	r sque	EZE, ETC.	
age 5649, 567						DEPTE	INTERVA	(MD)		MOUNT A	ND KIN	D OF M	ÀTERIAL USE	,
87, 5796, 580	9, 5847,	5855, 58	59 w/	1 SPZ	•	_5649	9-5859		14,	500#	20/40) san	d&38,180) gal
rf'd 2nd stag	e 5481, 5	486, 549	1, 549	96, 55	01,				000# 20/40 sand&72,470 gal					
06, 5519, 552				-	-	1	9-5235						d&74,585	
81 <u>5597</u> 560	5, 5612 w	/1_SPZ	(See_A	Attach		UCESO)	2-4429		110,	250#	20/40) san	d&31,250	L gal
DATE FIRST PRODUCT	PION PRO	DUCTION MET	HOD (Flo	wing, gas		700		ype of pur	np)				(Producing	or
6-20-8	5			F1ow	ing						shu	t-in)	Shut in	
6-27-85	HOURS TESTE		1	PROD'N.		01L—B	BL.	GAS—M	3 MC		er—bbl	· '	GAS-OIL RATIO	
FLOW. TUBING PRESS. SI 743	CASING PRESS		LATED UR BATE	011.—BB	L,	G	3220	<u>' </u>		ввь. О		OIL GR	AVITY-API (CO	ER.)
34. disposition of Shut in	to be So.		d, etc.)			<u> </u>		<u> </u>	_ \	ACCEP	WITNES		r łe ord	
35. LIST OF ATTACE	MENTS									nuull	i L. L.	T) V	<u>ntound</u>	
Cement	Record;	List of	3rd &	4th s	tage	Perf	s						<u>-</u>	
36. I hereby tertify	that the foreg	oing and atta	ched info	rmation i	s compl	ete and	correct as	determin	ed from	aya ila c	lable z	ecorde	85	
SIGNED	1994	- bak		TITL	Æ	Dı	cilling	g Cler	k	<u>FARM</u> IN	G DOM'TE	หะรชิบ	16-85-A	
														

M-07-0235 (Rev. 10-82)

CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

5,75 +AX Comp 1-21=87 Cp 1870 2

Completion Date 1/16/8 Drilling Log (Attach Hereto) mater 72-43765 Work Order # Well Name, Line or Plant: Ins Union Check ☑ Good ☐ Bad 29 OV 600 451 Anode Size Anode Type Location X60 6 /11 2 DUFION Total Lbs Goke Used Depth Drilled Depth Logged Drilling Rig Time Lost Circulation Mat'l Used No Sacks Mud Used 二十分 432 Anode Depth #2360 1#3310 #4 100 #5290 #6280 #1 27 0 1#8 230 # 10 180 #1405 Anode Output (Amps) #129 # 3 3,5 #4 37 #6 4.0 #7 33 1 8 3.9 1#9 455 # 10 3. 6 #2 76 # 5 H. (Anode Depth # 16 # 17 # 19 # 13 # 15 # 18 # 20 Anode Output (Amps) # 16 # 12 No. 8 C.P. Cable Used Total Circuit Resistance Volts 12.03 Amps / 9. / Ohms extendied 900, \$4300,00 G.B. ~ 750:00 40 V Rectifier Size:_ All Construction Completed Addn'l Depth -272.00 Depth Credit:_ 37.50 Extra Cable:_ 20.70 Ditch & 1 Cable: Ditch & 2 Cable: /20 62.40 25' Meter Pole: 305,00 201 Meter Pole: 10' Stub Pole: Junction Box: 53-37.28