

Di: _____ ment
13: _____ ion Division
Di: _____ Francis Dr.
10: _____ M 87505

REGISTERED

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

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

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

**Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application**

- Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
 Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
 Modification to an existing permit
 Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: LAWSON 1
API Number: 3004510871 OCD Permit Number: _____
U/L or Qtr/Qtr: L Section: 12 Township: 31N Range: 11W County: San Juan
Center of Proposed Design: Latitude: 36.91017°N Longitude: -107.94664°W NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2
 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 _____

3
 Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
 Drying Pad Above Ground Steel Tanks Haul-off Bins Other _____
 Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVD Other _____
Liner Seams: Welded Factory Other _____

4
 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 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
 Visible sidewalls and liner Visible sidewalls only Other _____
Liner Type: Thickness _____ mil HDPE PVC Other Unspecified

5
 Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6 **Fencing:** Subsection D of 19.15.17.11 NMAC (Applies 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, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.

7 **Netting:** Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other _____

Monthly inspections (If netting or screening is not physically feasible)

8 **Signs:** Subsection C of 19.15.17.11 NMAC

12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

9 **Administrative Approvals and Exceptions:**
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.
Please check a box if one or more of the following is requested, if not leave blank:

Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. (Fencing/BGT Liner)

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10 **Siting Criteria (regarding permitting):** 19.15.17.10 NMAC
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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 No

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 No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No
 NA

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.
(Applied to permanent pits)
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No
 NA

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Yes No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended
- Written confirmation or verification from the municipality Yes No

Within 500 feet of a wetland.
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes No

Within the area overlying a subsurface mine.
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Yes No

Within an unstable area.
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Yes No

Within a 100-year floodplain
- FEMA map Yes No

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
 Previously Approved Design (attach copy of design) API _____ or Permit _____

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Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
 Previously Approved Design (attach copy of design) API _____
 Previously Approved Operating and Maintenance Plan API _____

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Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
 Climatological Factors Assessment
 Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
 Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
 Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
 Quality Control/Quality Assurance Construction and Installation Plan
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 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

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Proposed Closure: 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan.

- Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
 Alternative
 Proposed Closure Method: 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)

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Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
 Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit #: _____

Disposal Facility Name: _____ Disposal Facility Permit #: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?
 Yes (If yes, please provide the information) No

Required for impacted areas which will not be used for future service and operations:

- Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Siting Criteria (Regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> 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 the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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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: *Crystal Tafoya* Date: 12/22/2008
e-mail address: ctafoya@dmr.compcorps.com Telephone: 505-326-9837

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OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

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Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date: _____

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Closure Method:

- Waste Excavation and Removal
- On-site Closure Method
- Alternative Closure Method
- Waste Removal (Closed-loop systems only)
- If different from approved plan, please explain.

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Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____
Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?

- Yes (If yes, please demonstrate compliance to the items below)
- No

Required for impacted areas which will not be used for future service and operations:

- Site Reclamation (Photo Documentation)
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique

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Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (if applicable)
- 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 Location: Latitude: _____ Longitude: _____ NAD 1927 1983

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Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 31N Range: 11W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

WATER COLUMN REPORT 08/20/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column
SJ 02395	31N	11W	13	1	1	3				95	35	60
SJ 01640	31N	11W	13	2	4					32	7	25
SJ 01551	31N	11W	13	2	4					64	42	22
SJ 00560	31N	11W	13	2	4					39	25	14
SJ 01729	31N	11W	13	2	4					48	28	20
SJ 01541	31N	11W	13	3						52	30	22
SJ 01539	31N	11W	13	3						52	30	22
SJ 00946	31N	11W	13	3	3					135	100	35
SJ 01540	31N	11W	13	4						52	30	22
SJ 01879	31N	11W	13	4						26	8	18
SJ 01801	31N	11W	13	4						22	15	7
SJ 03413	31N	11W	13	4	2					60		
SJ 03412	31N	11W	13	4	2					60		
SJ 03736 POD1	31N	11W	13	4	2	1				19	6	13
SJ 02495	31N	11W	13	4	2	1				28	12	16
SJ 03623	31N	11W	13	4	2	1				30	16	14
SJ 03264	31N	11W	13	4	2	2				20	11	9
SJ 03124	31N	11W	13	4	2	4				20	5	15
SJ 03125	31N	11W	13	4	2	4				20	5	15
SJ 03712 POD1	31N	11W	13	4	3	1				19	11	8
SJ 03018	31N	11W	13	4	3	4				20	8	12
SJ 03670	31N	11W	13	4	3	4				26	10	16
SJ 01538	31N	11W	13	4	4					52	30	22
SJ 01683	31N	11W	13	4	4					45	25	20
SJ 01731	31N	11W	13	4	4					43	25	18
SJ 01644	31N	11W	13	4	4					23	6	17
SJ 02149	31N	11W	13	4	4					35		
SJ 01645	31N	11W	13	4	4					22	6	16
SJ 01767	31N	11W	13	4	4					42	18	24
SJ 01730	31N	11W	13	4	4					40	24	16
SJ 01699	31N	11W	13	4	4					42	12	30
SJ 01609	31N	11W	13	4	4					40	18	22

SJ 01537	31N	11W	13	4	4				
SJ 01542	31N	11W	13	4	4		52	28	24
SJ 01663	31N	11W	13	4	4				
SJ 02093	31N	11W	13	4	4				
SJ 03440	31N	11W	13	4	4	1	45	25	20
SJ 03084	31N	11W	13	4	4	2	40	20	20
SJ 03085	31N	11W	13	4	4	2	20	6	14
SJ 02801	31N	11W	13	4	4	2	19	11	8
SJ 03064	31N	11W	13	4	4	3	18	8	10
SJ 01142	31N	11W	13	4	4	3	36	5	31
SJ 02838	31N	11W	13	4	4	4	45		
SJ 02855	31N	11W	13	4	4	4	30	8	22
SJ 01173	31N	11W	13	4	4	4	38	10	28
SJ 02289	31N	11W	13	4	4	4	31		
SJ 03458	31N	11W	19	3	3	4	46	28	18
SJ 02978	31N	11W	23	2	1	3	45	16	29
SJ 01817	31N	11W	23	2	4		140		
SJ 02129	31N	11W	23	2	4		800		
SJ 02161	31N	11W	23	3	4		65	20	45
SJ 01600	31N	11W	24	1			72	35	37
SJ 02124	31N	11W	24	1	1		40	25	15
SJ 03755 POD1	31N	11W	24	1	4		30	6	24
SJ 03695 POD1	31N	11W	24	1	4	2	55	40	15
SJ 03695 POD	31N	11W	24	1	4	2	27	7	20
SJ 03696	31N	11W	24	1	4	2	25	13	12
SJ 03695	31N	11W	24	1	4	2	25	13	12
SJ 03696 POD1	31N	11W	24	1	4	2	24	12	12
SJ 01559	31N	11W	24	2			25	13	12
SJ 01744	31N	11W	24	2	2		24	12	12
SJ 01375	31N	11W	24	2	2		50	27	23
SJ 01986 S	31N	11W	24	2	2	2	44	20	24
SJ 01986	31N	11W	24	2	2	2	30	11	19
SJ 00555	31N	11W	24	2	2	4	45	30	15
SJ 03408	31N	11W	24	2	3	1	38	21	17
SJ 02928	31N	11W	24	2	3	2	60	19	41
SJ 02924	31N	11W	24	2	3	2	26	11	15
SJ 02846	31N	11W	24	2	3	3	70		
SJ 02888	31N	11W	24	2	3	3	33	15	18
SJ 03650	31N	11W	24	2	3	3	45	18	27
SJ 00555 X	31N	11W	24	2	4		65		
SJ 02839	31N	11W	24	2	4	1	32	15	17
SJ 03707 POD1	31N	11W	24	2	4	1	58	39	19
SJ 02758	31N	11W	24	2	4	2	55	19	36
SJ 02791	31N	11W	24	2	4	2	60	40	20
SJ 00379	31N	11W	24	2	4	4	69	51	18
SJ 00365	31N	11W	24	2	4	4	74	54	20
SJ 01670	31N	11W	24	3			65	40	25
SJ 00287	31N	11W	24	3	2	4	71	40	31
SJ 01553	31N	11W	24	3	4		45	27	18
SJ 02171	31N	11W	24	3	4	3	38	6	32
SJ 01366	31N	11W	24	4	1		44	35	9
SJ 02644	31N	11W	24	4	1	4	45	25	20
SJ 00913	31N	11W	24	4	3		30	11	19
SJ 01405	31N	11W	24	4	3		45	18	27
SJ 01455	31N	11W	24	4	3	4	81	55	26
SJ 01047	31N	11W	24	4	3	4	30	9	21
SJ 00405	31N	11W	24	4	3	4	101	66	35
SJ 03438	31N	11W	24	4	4	4	205	70	135
SJ 03045	31N	11W	25	1	4	4	69	42	27
							40		
							200		

W 470700 2143800

269112 2142037

SJ 02499	31N	11W	25	2	1	1	66	45	21
SJ 03198	31N	11W	25	3	3	1	600	100	500
SJ 02834	31N	11W	25	3	3	3	200	160	40
SJ 03450	31N	11W	25	3	3	3	144	95	49
SJ 03126	31N	11W	26	1	1	1	41	21	20
SJ 01233	31N	11W	26	1	4		49	27	22
SJ 03158	31N	11W	26	1	4	2	280	25	255
SJ 00675	31N	11W	26	1	4	3	36	22	14
SJ 02887	31N	11W	26	1	4	4	51	28	23
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SJ 01789	31N	11W	26	3	1		29	12	17
SJ 00705	31N	11W	26	3	1	1	18	8	10
SJ 00371	31N	11W	26	3	1	2	29	9	20
SJ 03323	31N	11W	26	3	1	4	30	6	24
SJ 00363	31N	11W	26	3	1	4	25	5	20
SJ 01545 X	31N	11W	26	3	3		27	10	17
SJ 00926	31N	11W	26	4	1		62	32	30
SJ 01519	31N	11W	26	4	2		69	47	22
SJ 01620	31N	11W	26	4	2		67	26	41
SJ 00610	31N	11W	26	4	2		80	50	30
SJ 02011	31N	11W	26	4	2		55	38	17
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SJ 01042	31N	11W	26	4	4		100	30	70
SJ 00494	31N	11W	26	4	4		88	60	28
SJ 02482	31N	11W	27	4	1	2	75	55	20
SJ 03600	31N	11W	27	4	2	1	51	39	12
SJ 03540	31N	11W	27	4	2	1	40	21	19
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SJ 02914	31N	11W	27	4	2	3	25	15	10
SJ 02468	31N	11W	27	4	2	3	49	30	19
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SJ 02871	31N	11W	27	4	2	4	22	11	11
SJ 02215	31N	11W	27	4	3		54	23	31
SJ 02676	31N	11W	27	4	3		19	7	12
SJ 03247	31N	11W	27	4	3	1	70		
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SJ 02853	31N	11W	27	4	3	4	22	6	16
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SJ 01797	31N	11W	30	4	4		100	40	60
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SJ 01811	31N	11W	31	2	2		89	50	39
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268239 2135717

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SJ 01657	31N 11W 34	2	20	6	14
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SJ 03107	31N 11W 34	2 4 1	18	8	10
SJ 03106	31N 11W 34	2 4 1	25		
SJ 03183	31N 11W 34	2 4 4	19	6	13
SJ 03780 POD1	31N 11W 34	3 1 2	28	12	16
SJ 02859	31N 11W 34	3 1 4	22	6	16
SJ 02967	31N 11W 34	3 2 3	20	5	15
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SJ 02852	31N 11W 34	3 2 3	23	7	16
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SJ 03025	31N 11W 34	3 2 3	22	5	17
SJ 03014	31N 11W 34	3 2 4	30	5	25
SJ 03002	31N 11W 34	3 2 4	22		
SJ 02861	31N 11W 34	3 3 1	21	7	14
SJ 03220	31N 11W 34	3 3 1	20	6	14
SJ 03042	31N 11W 34	3 3 2	23	6	17
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SJ 03492	31N 11W 34	3 4 2	30		
SJ 03631	31N 11W 34	3 4 2	27	6	21
SJ 03493	31N 11W 34	3 4 2	25	15	10
SJ 03357	31N 11W 34	3 4 2	22	6	16
SJ 03260	31N 11W 34	3 4 4	41	3	38
SJ 03609	31N 11W 34	3 4 4	27	6	21
SJ 01608	31N 11W 34	4	48	17	31
SJ 03720 POD1	31N 11W 34	4 1 3	21	6	15
SJ 03497	31N 11W 34	4 1 4	30	10	20
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SJ 03377	31N 11W 34	4 2 4	20	2	18
SJ 03016	31N 11W 34	4 3 1	35		
SJ 03739 POD1	31N 11W 34	4 3 1	25	3	22
SJ 02966	31N 11W 34	4 3 3	48	20	28
SJ 00985	31N 11W 34	4 4	40	16	24
SJ 02827	31N 11W 35	1 1 2	60		
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SJ 02902	31N 11W 35	1 1 3	19	5	14
SJ 02897	31N 11W 35	1 3 1	17	6	11

267922 2130341

SJ 00333	31N	11W	35	1	3	4			
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SJ 03543	31N	11W	35	1	4	4			6
SJ 01144	31N	11W	35	1	4	4			24
SJ 01319	31N	11W	35	2	2	2			43
SJ 00185	31N	11W	35	2	3				12
SJ 03676	31N	11W	35	2	3	1			30
SJ 03560	31N	11W	35	2	3	2			31
SJ 03165	31N	11W	35	2	4	4			30
SJ 03166	31N	11W	35	2	4	4			25
SJ 00983	31N	11W	35	3					155
SJ 00939	31N	11W	35	3					54
SJ 00940	31N	11W	35	3	1				52
SJ 01580	31N	11W	35	3	1	1			19
SJ 02932	31N	11W	35	3	1	2			33
SJ 02933	31N	11W	35	3	1	2			62
SJ 03574	31N	11W	35	3	1	4			32
SJ 00591	31N	11W	35	3	1	4			20
SJ 00939 1	31N	11W	35	3	2				20
SJ 00713	31N	11W	35	4	2				110
									70
									40
									60
									30
									30
									15
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									65
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									13
									100
									83
									54
									29
									60
									30
									37
									19
									18

Record Count: 229

**New Mexico Office of the State Engineer
POD Reports and Downloads**

Township: 31N Range: 10W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

[POD / Surface Data Report](#)

[Avg Depth to Water Report](#)

[Water Column Report](#)

[Clear Form](#)

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[Help](#)

WATER COLUMN REPORT 08/20/2008

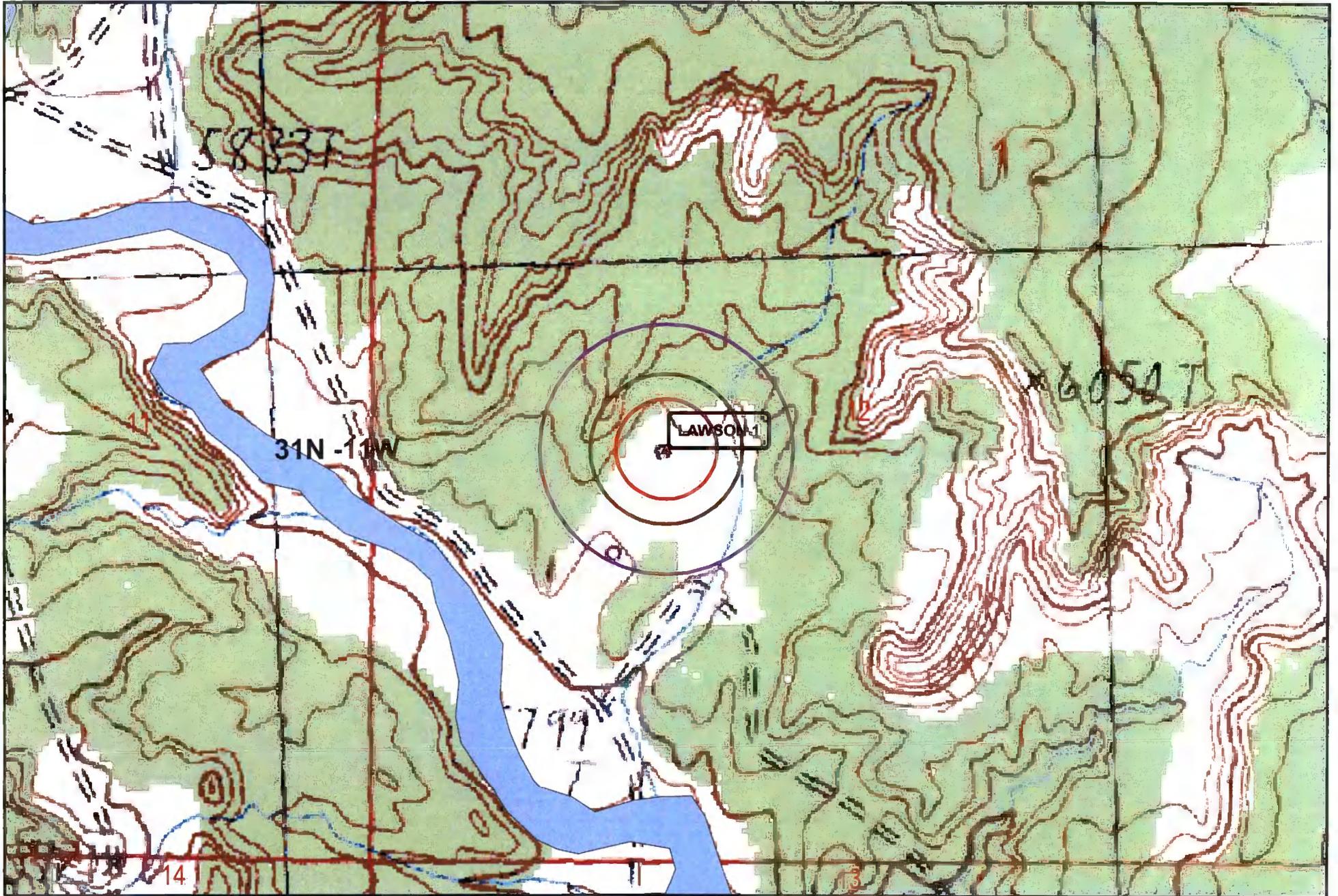
(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tw	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water (in feet) Column
SJ 00498	31N	10W	04	1	2					26	8	18
SJ 03062 CLW263578	31N	10W	04	1	2	2				47	40	7
SJ 03062	31N	10W	04	1	2	2				55	46	9
SJ 02844	31N	10W	04	1	2	4				37	21	16
SJ 00573	31N	10W	04	1	4					37	12	25
SJ 00595	31N	10W	04	1	4	2				90	12	78
SJ 00595 S	31N	10W	04	1	4	2				70	10	60
SJ 00175	31N	10W	04	2						28	13	15
SJ 01563	31N	10W	04	2	1					44	28	16
SJ 02089	31N	10W	04	2	1	1				55	40	15
SJ 03033	31N	10W	04	2	1	1				52	30	22
SJ 03034	31N	10W	04	2	1	2				45	23	22
SJ 01564	31N	10W	04	2	2					34	10	24
SJ 00128	31N	10W	04	2	2					70	21	49
SJ 02044	31N	10W	05	1	3					22	12	10
SJ 01370	31N	10W	05	1	3	2				48	28	20
SJ 01967 X	31N	10W	05	1	3	2				25	10	15
SJ 02843	31N	10W	05	1	3	2				25	10	15
SJ 02044 X	31N	10W	05	1	3	4				28	14	14
SJ 02083	31N	10W	05	2	2	1				23	10	13
SJ 02069	31N	10W	05	2	2	1				22	9	13
SJ 03013	31N	10W	05	2	2	3				19	7	12
SJ 03109	31N	10W	05	2	2	3				21	2	19
SJ 03004	31N	10W	05	2	2	4				18	6	12
SJ 02945	31N	10W	05	2	2	4				17	5	12
SJ 03368	31N	10W	05	2	2	4				19	6	13
SJ 03549	31N	10W	05	2	4	4				42	35	7
SJ 02884	31N	10W	05	2	4	4				75		
SJ 00304	31N	10W	05	3	4					18	5	13
SJ 02399	31N	10W	05	3	4	1				40	14	26
SJ 02944	31N	10W	05	3	4	2				100		
SJ 03112	31N	10W	05	3	4	2				45	33	12

<u>SJ 01373 X</u>	31N	10W	05	3	4	3			35	10	25
<u>SJ 02107</u>	31N	10W	05	4	3				35	16	19
<u>SJ 01373</u>	31N	10W	05	4	3				6	3	3
<u>SJ 02037</u>	31N	10W	05	4	3				39	11	28
<u>SJ 03452</u>	31N	10W	05	4	4	2			61	30	31
<u>SJ 03336</u>	31N	10W	05	4	4	3			58	28	30
<u>SJ 03246</u>	31N	10W	05	4	4	3			65	15	50
<u>SJ 01958</u>	31N	10W	06	2					103	83	20
<u>SJ 01977</u>	31N	10W	06	2	3				93	33	60
<u>SJ 03308</u>	31N	10W	06	2	4	3			100	60	40
<u>SJ 02150</u>	31N	10W	07	2	2				41	23	18
<u>SJ 02389</u>	31N	10W	07	2	2	3			48	31	17
<u>SJ 03079</u>	31N	10W	07	2	2	3			50		
<u>SJ 03330</u>	31N	10W	07	3	3	1			400		
<u>SJ 01521</u>	31N	10W	07	4					45	29	16
<u>SJ 03802 POD1</u>	31N	10W	07	4	3	2	269793	2149984	41	24	17
<u>SJ 00585</u>	31N	10W	08						40	23	17
<u>SJ 02304</u>	31N	10W	08	1	2				35	29	6
<u>SJ 03057</u>	31N	10W	08	1	3	4			19	6	13
<u>SJ 03714 POD1</u>	31N	10W	08	3	1	1			21	6	15
<u>SJ 00054</u>	31N	10W	10	2					455		
<u>SJ 00830 -EXPLOR</u>	31N	10W	15	3					550		
<u>SJ 01198</u>	31N	10W	17	3	4				158	97	61
<u>SJ 02624</u>	31N	10W	18	1	1				295	125	170
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<u>SJ 03345</u>	31N	10W	18	1	3	2			21	11	10
<u>SJ 01796</u>	31N	10W	18	1	3	3			32	20	12
<u>SJ 01598</u>	31N	10W	18	1	4				30	5	25
<u>SJ 01587</u>	31N	10W	18	1	4				35	5	30
<u>SJ 03163</u>	31N	10W	18	1	4	3			19	5	14
<u>SJ 01747</u>	31N	10W	18	1	4	3			20	6	14
<u>SJ 01718</u>	31N	10W	18	2	1	4			30	4	26
<u>SJ 03813 POD1</u>	31N	10W	18	2	1	4	269778	2148065	16	6	10
<u>SJ 03070</u>	31N	10W	18	2	3	2			21	1	20
<u>SJ 03324</u>	31N	10W	18	2	3	2			43	20	23
<u>SJ 03474</u>	31N	10W	18	2	4	2			35		
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<u>SJ 01500</u>	31N	10W	18	3	1				26	15	11
<u>SJ 01550</u>	31N	10W	18	3	1				22	7	15
<u>SJ 02821</u>	31N	10W	18	3	1	1			24	8	16
<u>SJ 03119</u>	31N	10W	18	3	1	2			10	8	2
<u>SJ 01552</u>	31N	10W	18	3	1	4			30	22	8
<u>SJ 03114</u>	31N	10W	18	3	2	1			16	8	8
<u>SJ 02749</u>	31N	10W	18	3	2	2			16	10	6
<u>SJ 03722 POD1</u>	31N	10W	18	3	2	3			20	6	14
<u>SJ 03721 POD1</u>	31N	10W	18	3	2	3			25	10	15
<u>SJ 03435</u>	31N	10W	18	3	2	3			10	6	4
<u>SJ 03622</u>	31N	10W	18	3	2	3			20	6	14
<u>SJ 00611 S</u>	31N	10W	18	3	3				65	25	40
<u>SJ 00611</u>	31N	10W	18	3	3	3			58	46	12
<u>SJ 00555 CLW225581</u>	31N	10W	19	1					70	45	25
<u>SJ 02909</u>	31N	10W	19	1	1	1			60	47	13
<u>SJ 02929</u>	31N	10W	19	1	1	1			58	40	18
<u>SJ 02979</u>	31N	10W	19	1	1	1			57	43	14
<u>SJ 03103</u>	31N	10W	19	1	1	1			53	33	20
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<u>SJ 03705 POD1</u>	31N	10W	19	1	1	2			69	56	13
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<u>SJ 03086</u>	31N	10W	19	1	1	3	61	44	17
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<u>SJ 01349</u>	31N	10W	19	1	3	3	78	67	11
<u>SJ 03285</u>	31N	10W	19	3	1	1	40		
<u>SJ 02084</u>	31N	10W	25	4	4	2	315		
<u>SJ 00967</u>	31N	10W	27	4	3		130	90	40
<u>SJ 00990</u>	31N	10W	27	4	3		162	110	52
<u>SJ 01483</u>	31N	10W	27	4	4	1	195	150	45
<u>SJ 02960</u>	31N	10W	27	4	4	2	200	150	50
<u>SJ 03178</u>	31N	10W	27	4	4	2	235	150	85
<u>SJ 03539</u>	31N	10W	27	4	4	3	205	124	81
<u>SJ 00163</u>	31N	10W	28	1	4	1	1538		
<u>SJ 00163 EXPL</u>	31N	10W	28	1	4	3	1538		
<u>SJ 03459</u>	31N	10W	32	3	3	2	185	175	10
<u>SJ 00981</u>	31N	10W	34	2	1		164	118	46
<u>SJ 01480</u>	31N	10W	34	2	1		245	125	120
<u>SJ 03624</u>	31N	10W	34	2	1	2	165	65	100
<u>SJ 03387</u>	31N	10W	34	2	2	1	250	200	50
<u>SJ 03728 POD1</u>	31N	10W	35	1	3	3	365	230	135
<u>SJ 03545</u>	31N	10W	35	1	4	3	455	317	138
<u>SJ 03544</u>	31N	10W	35	1	4	4	325	220	105
<u>SJ 03571</u>	31N	10W	35	1	4	4	250		
<u>SJ 03576</u>	31N	10W	35	2	3	3	450	137	313
<u>SJ 03570</u>	31N	10W	35	2	4	4	250		
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Record Count: 117



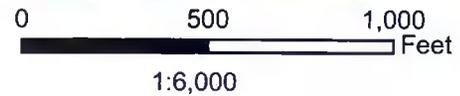
Wetlands data aquired from U.S. Fish and Wildlife
<http://wetlandswms.er.usgs.gov>

Ground Water

- + iWaters
- + COP

Buffers

- 200ft
- 300ft
- 500ft
- Wetlands



NAD_1983_StatePlane_NMWest_FIPS_3003
8/08

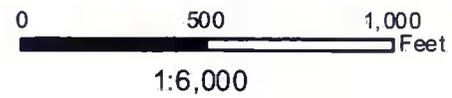
AERIAL MAP LAWSON 1



Data Source
Aerial flown locally Sedgewick in 2005.

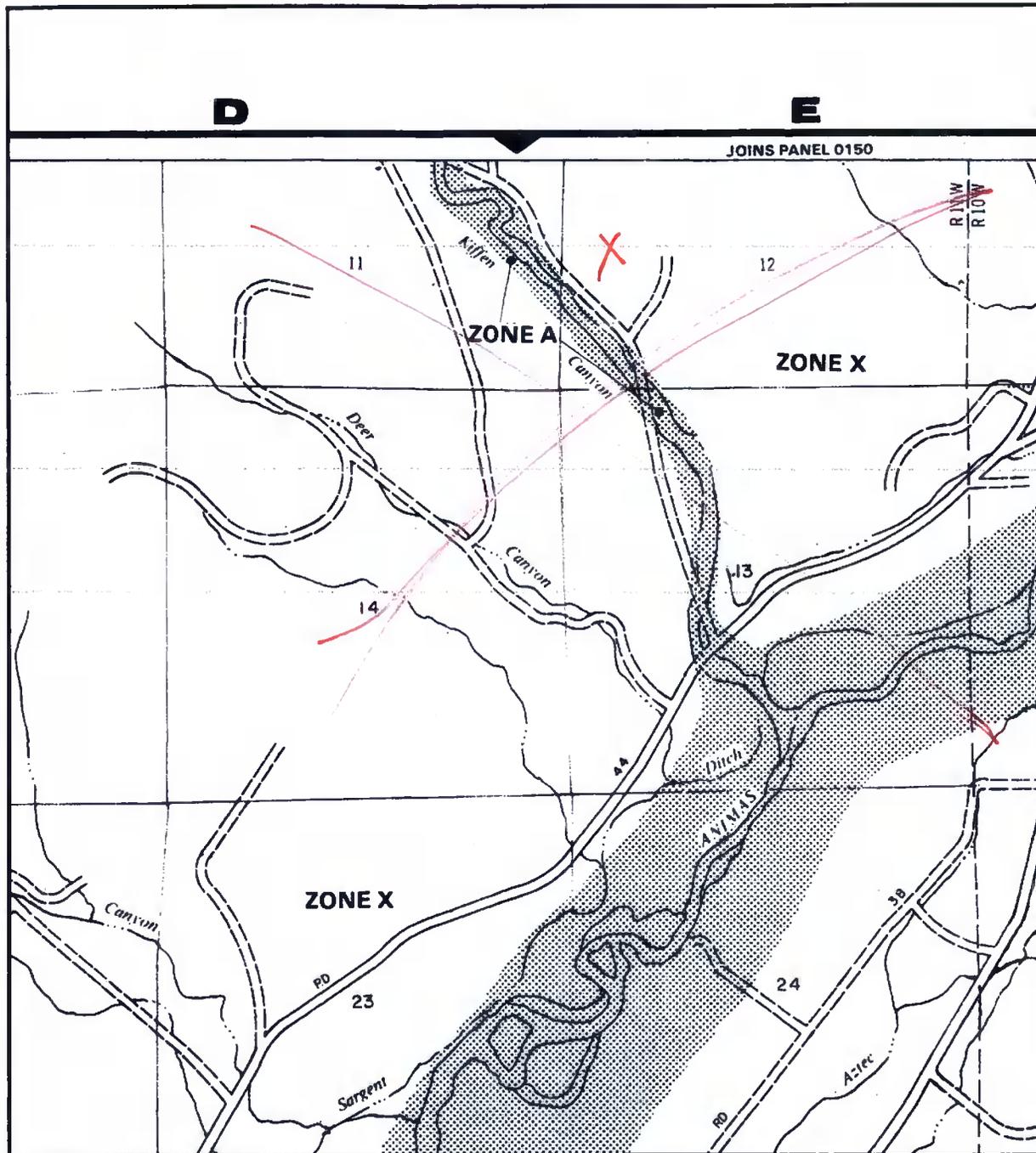
 1000FT

 300FT



NAD_1983_SP_
NM West_FIPS_3003
8/08

LAWSON 1



APPROXIMATE SCALE

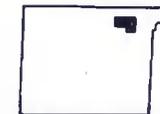


NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

SAN JUAN COUNTY,
NEW MEXICO
UNINCORPORATED AREAS

PANEL 350 OF 1450
(SEE MAP INDEX FOR PANELS NOT PRINTED)



PANEL LOCATION

COMMUNITY-PANEL NUMBER
350084 0350 B

EFFECTIVE DATE:
AUGUST 4, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

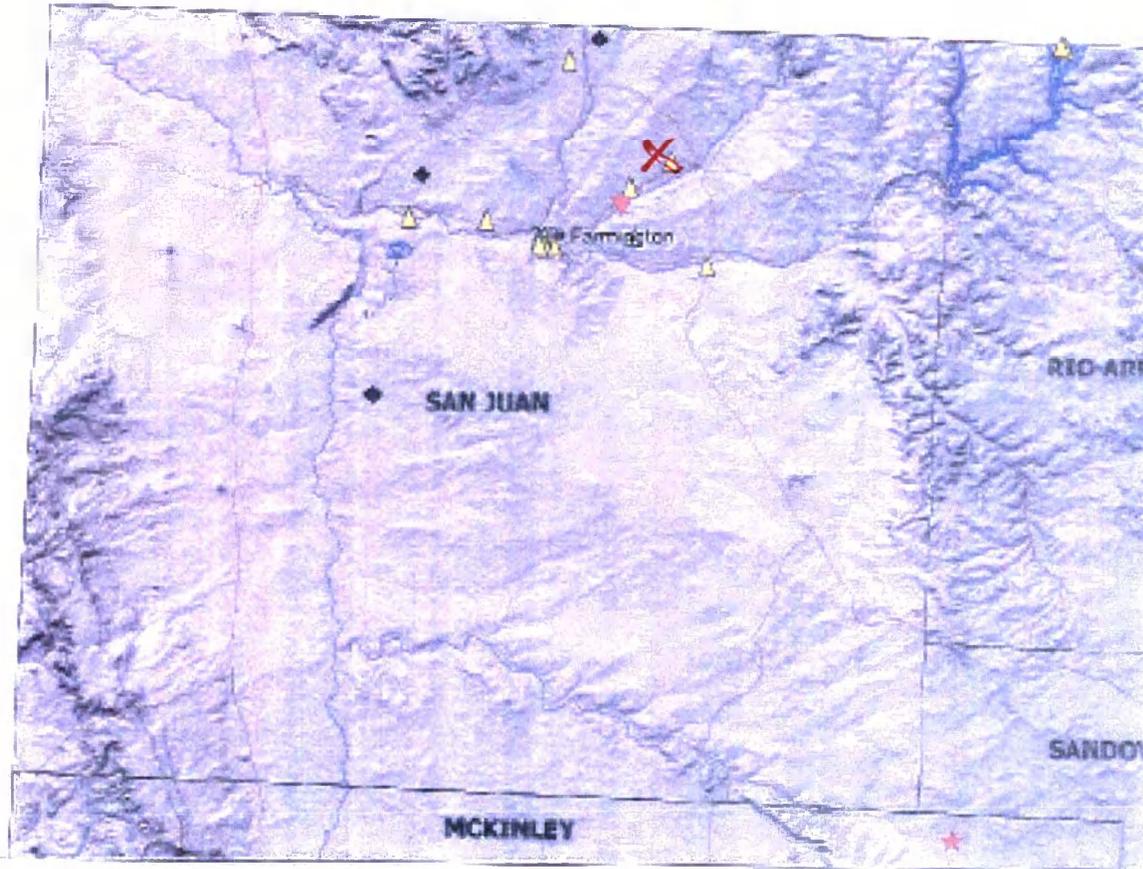
Mines, Mills and Quarries Web Map

LAWSON 1

Unit Letter: L, Section: 12, Town: 031N, Range: 011W

Mines, Mills & Quarries Commodity Groups

-  Aggregate & Stone Mines
 -  Coal Mines
 -  Industrial Minerals Mines
 -  Industrial Minerals Mills
 -  Metal Mines and Mill Concentrate
 -  Potash Mines & Refineries
 -  Smelters & Refinery Ops.
 -  Uranium Mines
 -  Uranium Mills
- Population
-  Cities - major
- Transportation
-  Railways
 -  Interstate Highways
 -  Major Roads



SCALE 1 : 1,180,363



LAWSON 1

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LAWSON 1', which is located at 36.91017 degrees North latitude and 107.94664 degrees West longitude. This location is located on the Cedar Hill 7.5' USGS topographic quadrangle. This location is in section 12 of Township 31 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 Cedar Hill, located 3.8 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 18.8 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 1.5 miles to the southeast. The location is on Private land and is 34 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas, Colorado, New Mexico, Sub-basin. This location is located 1782 meters or 5844 feet above sea level and receives 12 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is -44 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 98 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 3,993 feet to the south. The nearest water body is 4,554 feet to the southeast. It is classified by the USGS as an intermittent lake and is 7.9 acres in size. The nearest spring is 6,242 feet to the northwest. 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 2,748 feet to the southwest. The nearest wetland is a 58.7 acre Ravine located 1,101 feet to the southwest. The slope at this location is 2 degrees to the southwest 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 4.7 miles to the northeast 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 et 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 conducive 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., Craig, 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:

1. 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.
2. 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.
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 as shown on design drawing and specification sheet.
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 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 below-grade 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.

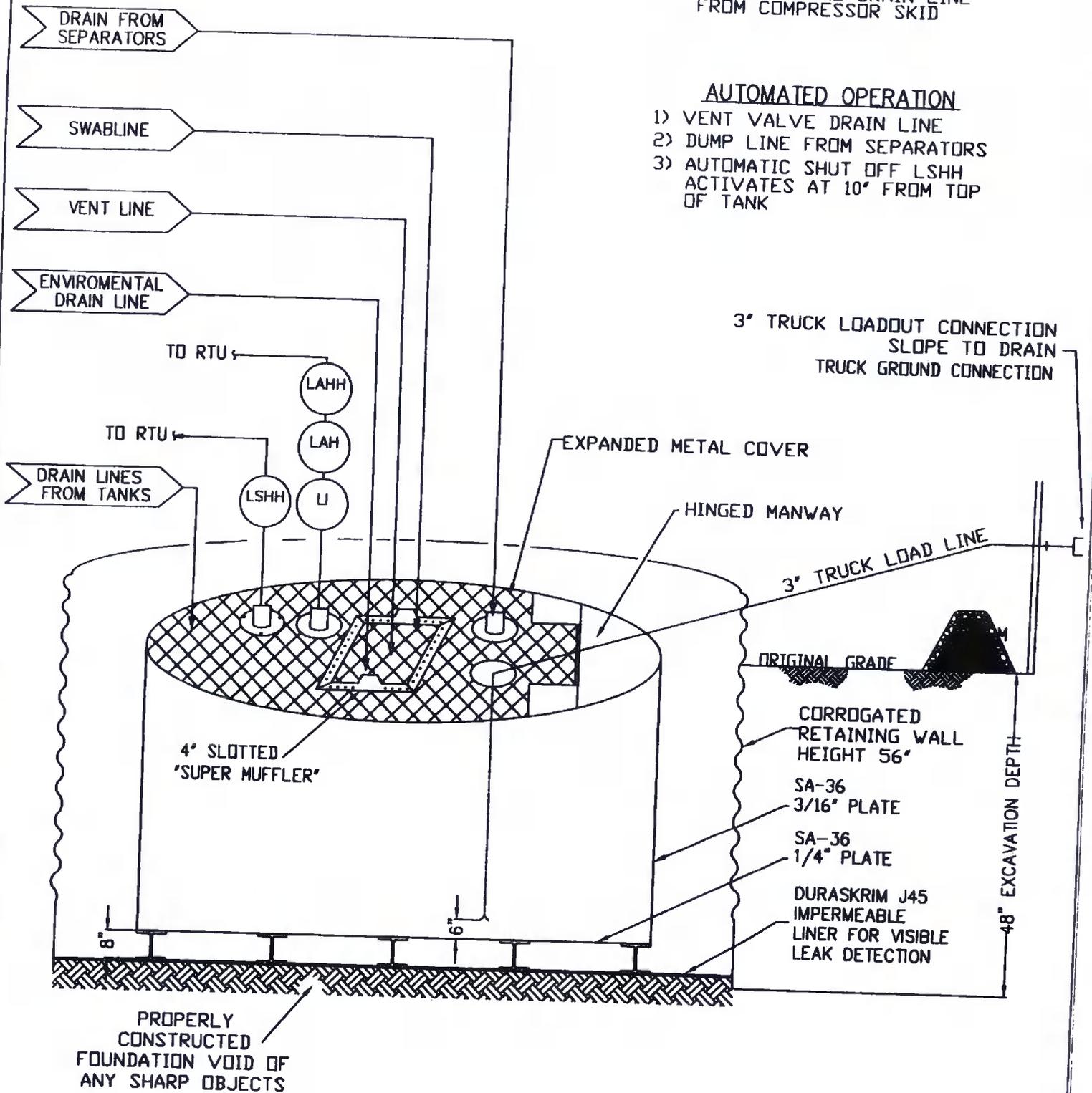
9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the 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 ASTM D3083 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.
11. The general specification for design and construction are attached in the BR document.

MANUAL OPERATION

- 1) PRODUCTION TANKS DRAINLINE
- 2) SWABLINE DRAIN LINE
- 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID

AUTOMATED OPERATION

- 1) VENT VALVE DRAIN LINE
- 2) DUMP LINE FROM SEPARATORS
- 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10" FROM TOP OF TANK



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	J30BB		J36BB		J45BB	
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Black/Black		Black/Black		Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd ²)	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 (30.24)
Construction		**Extrusion laminated with encapsulated tri-directional scrim reinforcement					
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	99 lbf
Maximum Use Temperature		180° F	180° F	180° F	180° F	180° F	180° F
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° 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

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 statutes. 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:

1. 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 below-grade 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.
5. 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 of 19.15.17.11 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.
4. 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.
9. 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 placed 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 be used on federally jurisdictioned 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 below-grade 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