

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

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

Form C-144
July 21, 2008

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

5420

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 Noble Energy Inc OGRID # 234550
Address 5802 US Highway 64, Farmington, N.M. 87401
Facility or well name Jacquez 1 A
API Number 3004523005 OCD Permit Number _____
U/L or Qtr/Qtr E Section 2 Township 31N Range 13W County San Juan
Center of Proposed Design Latitude 36.93204238 Longitude 108.17687910 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 ☐ PVC ☐ Other _____
Liner Seams ☐ Welded ☐ Factory ☐ Other _____

4
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume 40 bbl Type of fluid Water
Tank Construction material Steel double bottom tank
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☒ Visible sidewalls only ☒ Other leak detection
Liner type Thickness N/A mil ☐ HDPE ☐ PVC ☐ Other _____

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 pits, temporary pits, and below-grade tanks*)

☐ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)

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

☒ Alternate. Please specify Wire mesh fence with a pipe railing

7.

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

☐ Screen ☐ Netting ☐ Other _____

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

8.

Signs: Subsection C of 19.15.17.11 NMAC

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

☐ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

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

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

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: *The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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 significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

(Applies to temporary, emergency, or cavitation pits and below-grade tanks)

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☒ No

☐ NA

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

(Applies to permanent pits)

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

☒ NA

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☒ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☒ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☒ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☒ No

11

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9 NMAC
- ☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
- ☒ Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC
- ☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC

☐ Previously Approved Design (attach copy of design) API Number _____ or Permit Number _____

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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 Number _____

☐ Previously Approved Operating and Maintenance Plan API Number _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13

Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19 15 17 9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 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

☐ Waste Removal (Closed-loop systems only)

☐ On-site Closure Method (Only for temporary pits and closed-loop systems)

☐ In-place Burial ☐ On-site Trench Burial

☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

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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

16.

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 Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

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

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

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

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

Ground water is less than 50 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is between 50 and 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is more than 100 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS, NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

18.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure 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) Jean MuseTitle Regulatory Compliance

Signature _____

Date 6.22.09e-mail address jmuse@nobleenergyinc.comTelephone (866) 404-3161

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

OCD Representative Signature: Jonathan KellyApproval Date: 4/26/2012

Title: _____

District #3

OCD Permit Number: _____

21

Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior 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 indentify 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 (required for on-site closure)
☐ 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) _____

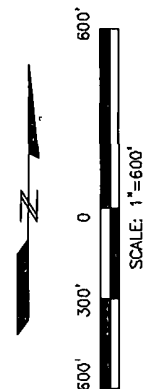
Title _____

Signature _____

Date _____

e-mail address _____

Telephone _____



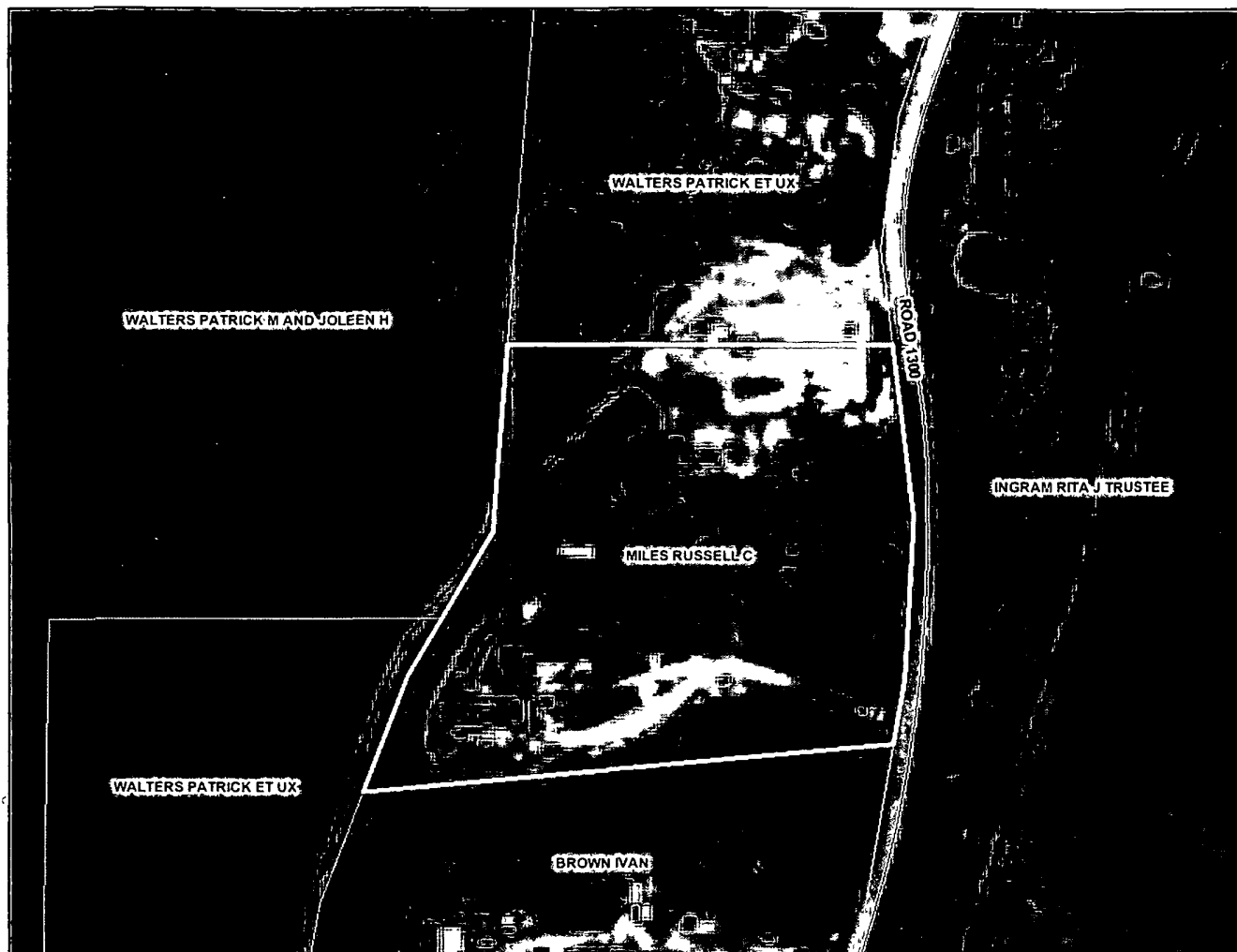
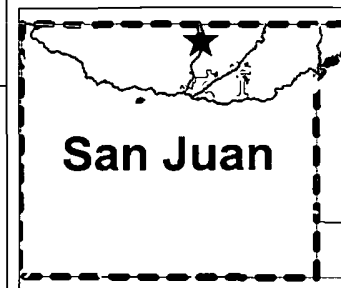
- SITING CRITERIA (200'-300'-500'-1000' RADIUS)

1) NEW MEXICO GEOSPATIAL DATA ACQUISITION COORDINATION COMMITTEE (GDACC), STATE OF NEW MEXICO. "LA PLATA, NM SE USGS DOQQ, SUMMER 2005" (REMOTE SENSING IMAGE) 1:12000. ALBUQUERQUE, NM: BOHANNAN-HUSTON, INC., 2005

2) U.S. GEOLOGICAL SURVEY. LA PLATA QUADRANGLE, NEW MEXICO (TOPOGRAPHIC MAP). 1:24,000. 7.5 MINUTE SERIES. WASHINGTON D.C.. USGS, 1963.

Jun 11, 2009 - 3:02pm by cpoltras - Path = K:\Jobs\Noble Energy\2484 Series\2484-07 Pit Permits\WELLS 1-140 individual folders by API#\79-3004523005 Jaquez IA\2484-79d\w

Jacquez #1A



Legend

- ✓ RIVERS
- LAKES
- SJC Road Status
 - ✓ Major Roads
 - ✓ Private
 - ✓ County Maintained
 - ✓ Limited County Maintained
 - ✓ City
 - ✓ Oil and Gas
 - ✓ roads
- ✓ ROADS
- SAN JUAN COUNTY
- NAVAJO RESERVATION
- PARCELS
- 2005_DOQQ

0 58 116 174 m.

Map center: 36° 55' 55.0" N, 108° 10' 38.6" W



Scale: 1:1,962

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

DEPARTMENT OF
NATURAL RESOURCES
LAND OFFICE
OIL
GAS
CONSERVATION

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-105
Effective 1-1-65

Consolidated Oil & Gas, Inc.
1860 Lincoln Street, Denver, Colorado 80295
Please fill in following (if not known, leave blank)
New Well ☒ Change in Transporter of Oil ☐ Lay Gas ☒
Recompletion ☐ Oil ☐ Corrosion ☐
Change in Control ☐ Change in Head Cut ☐ Corrosion ☐

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Well Name Jacquez Com	Lease or Pool Name 1-A	Producing Formation Blanco Mesaverde	Kind of Lease State, Federal or Per Fee	Lease No.
Location: Unit Letter "F" Feet From The North Line and 1450 Feet From The West Line of Section 2 Township 31 North Range 13 West, N.M.P.M., San Juan County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Inland Corporation	P. O. Box 1528, Farmington, New Mexico 87401
Name of Authorized Transporter of Crude Oil or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	P. O. Box 1492, El Paso, Texas 79910
If well produces oil or liquids, give location of tanks	Unit Sec. Twp. Rge. Is gas actually connected? Year
"F" 2 31N 13W	No

If this production is commingled with that from any other lease or pool, give commingling order number

IV. COMPLETION DATA

Designate Type of Completion - (X)	Old Well <input type="checkbox"/>	Gas Well <input checked="" type="checkbox"/>	New Well <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Res't <input type="checkbox"/>	Diff. Res't <input type="checkbox"/>
Date Applied 6-25-78	Date Compl. Ready to Prod 8-22-78	Total Depth 4830'		P.B.T.D. 4796'				
Elevations (D.F., K.H.B., R.T., G.R., etc.) 5847' RKB-5835' GR	Name of Producing Formation Mesaverde	Top Oil/Gas Pay 4506'		Tubing Depth 4486' KB				
Perforations 4506'-4752' (24' - 3/8" holes)						Depth Casing Shoe 4826'		
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				
12-1/4"	8-5/8"	247' KB		200 SX C1 "B"				
7-7/8"	4-1/2"	4825' KB		130 SX 65-35 Poz &				
	1-1/2"	4486' KB		460 SX 50-50 Poz				

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date for New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls	Water-Bbls	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D AOF 2872; CV 1664	Length of Test 3 hrs	Bbls Condensate/VVCF	Gravity of Condensate
Testing Method (pilot, back pr.) 1 pt back pressure	Tubing Pressure (Shut-in) 1018 psig	Casing Pressure (Shut-in) 1020 psig	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief

D. J. Stogner
(Signature)
(Title)
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____
BY _____
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Form C-104 must be filed for each pool in multiply completed wells.

San Juan County Assessor's Office

Web site Information Report

Tax ID:	R0055277	Physical Address:	19 ROAD 1300 , LA PLATA
Account Type:	Residential	Taxing District:	5OUT
Parcel Number:	2074185386372	Mill Rate:	0.021425
Business Name:	-	Acres:	4
Serial Number:	-	# of Buildings:	1
Owner Name 1:	MILES RUSSELL C	Section:	02
Owner Name 2:	-	Township:	31
Mailing Address:	19 RD 1300	Range:	13
City, State, Zip:	LA PLATA, NM 874189701	QTR:	NW
		QTRQTR:	SE

	2008	2009	
Gross Assessed :	27037	27011	Subdivision: -
Net Assessed:	9012	9004	-
Exemptions:		-	-
Taxable Value:	9012	9004	
Taxes:	202.09		

Building #: 1

Book: 1272

Built As: Misc Imps

Page: 247

Type: Residential

Doc Date: -

Year Built: 2007

Sq Ft: 1

Stories: 1



New Mexico Office of the State Engineer

Wells with Well Log Information

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (in feet)

POD Number	Sub basin	Use	County	Source	q	q	q	Sec	Tws	Rng	X	Y	Start Date	Finish Date	Log File Date	Depth Well	Depth Water
<u>SJ 00835</u>		DOM	SJ	Shallow	2	2	02	31N	13W		218002	4092270*	11/20/1978	11/29/1978	12/08/1978	34	19
<u>SJ 02590</u>		DOM	SJ	Shallow	3	2	1	02	31N	13W	217099	4092201*	04/05/1995	04/12/1995	04/24/1995	114	70

Record Count: 2

PLSS Search:

Section(s): 2

Township: 31N

Range: 13W

*UTM location was derived from PLSS - see Help

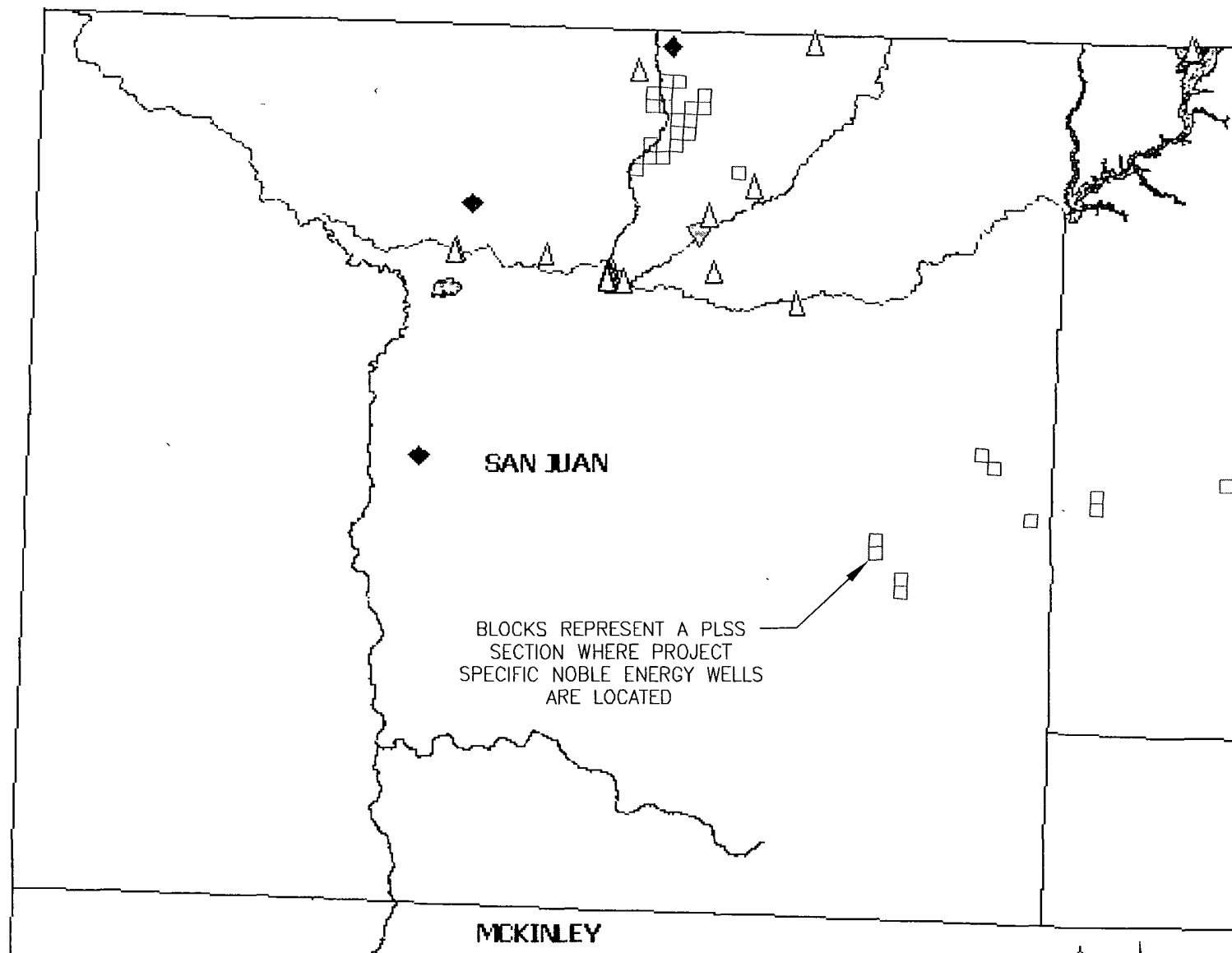
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

5/26/09 9:42 AM

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WELLS WITH WELL LOG INFORMATION

- 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



MINES, MILLS AND QUARRIES WEB MAP (SAN JUAN COUNTY)

SOURCE INFORMATION
MINES, MILLS AND QUARRIES WEB MAP. NEW MEXICO ENERGY, MINERAL AND NATURAL RESOURCES DEPARTMENT

Noble Energy, Inc.
Below-grade Tank
Hydrogeologic Report (Item 11)
San Juan Basin Locations

The below-grade tank described in this application is located within the planning area of the Farmington Field Office of the Bureau of Land Management. This office prepared a Resource Management Plan and Environmental Impact Statement in March 2003 (USDI 2003). Geology of the region was analyzed in this document. A summary of this section (Geology and Minerals pages 3-4 -3-9 in Farmington Proposed Resource Management Plan and Final Environmental Impact Statement 2003) is included below as relevant to the below-grade tank for which a C-144 form is being submitted. Additional sources of information for this resource are listed in the original text.

The San Juan Basin, an asymmetrical syncline roughly 200 miles long and 130 miles wide (including the portion that extends north into Colorado), is the dominant geological feature of northwestern New Mexico. The San Juan Basin reached its current structural arrangement upon completion of downwarping of Cretaceous-aged rocks at the end of the Laramide uplift. Later, deeply buried organic matter was heated and gas and oil were formed in stratigraphic traps in the basin. Epicontinental sea deposition that occurred between periods of major uplift created the Cambrian to Quaternary sedimentary rocks that are found over Precambrian rocks. Depositional environments for rock units included deep marine, shoreline, continental, and fluvial. Wind-blown sand also contributed to the depositional environment in the Triassic-Jurassic interval. Tertiary sediments arrived in the San Juan Basin when the San Juan Mountains and southern Rocky Mountains began to erode and these sediments were transported and deposited in the basin (in the Tertiary period).

Rocks of the San Juan Basin include predominately shales and sandstones that range in age from Cambrian to Quaternary. Coals, carbonates, and igneous rocks are also found in the basin to a lesser degree. Together, the sedimentary rocks are more than 14,000 feet thick at the New Mexico/Colorado state line. Six thousand feet of Cretaceous sandstones, siltstones, shales, and coals form the top layers in the basin. The hydrocarbon reservoirs in the basin are all within these Cretaceous layers where plants and animals decomposed. These include the Fruitland Formation, Pictured Cliffs Sandstone, Mesa Verde Group, and Dakota Sandstone. Shales and sandstones from the Permian through the Pennsylvanian periods (1,700 – 2,900 feet thick) are found below this layer. The oldest layer of rocks, the Precambrian basement rocks, are located more than 7,500 feet below sea level in the basin's deepest part.

Understanding the geology of the San Juan Basin sets the stage for understanding its hydrology. As with geology, hydrology of the basin was researched and described in the Farmington Proposed RMP and Final EIS (USDI 2003). The following is a summary of this report as pertains to the below-grade tank that is being permitted through the Oil Conservation District.

Aquifers are found in the sandstones under the San Juan Basin as well as within unconsolidated sands and gravels. Water quality in these aquifers ranges from fair to poor (varying degrees of salinity). The largest aquifer under the San Juan Basin is the Unita-Animas Aquifer. This aquifer is made up of the San Jose Formation, the Animas Formation, the Nacimiento Formation and the Ojo Sandstone. This aquifer reaches its maximum thickness at the northeast end of the basin at approximately 3,500 feet. The Unita-Animas aquifer receives groundwater recharge from the higher altitude areas of the basin, which are located along its margins. Water is discharged from the aquifer toward the San Juan River and is discharged into streams, valley alluvium, and lost to vegetation evapotranspiration.

The Mesaverde Aquifer is also present in the San Juan Basin. Its water-yielding components are within the Upper Cretaceous Mesaverde Group as well as in some Tertiary and other Upper Cretaceous formations. The Mesaverde aquifer reaches its maximum thickness at the southern end of the basin at approximately 4,500 feet. It receives recharge from areas of higher elevation that receive more precipitation. Water is discharged from the aquifer along streams and rivers including the San Juan River and the Chaco River.

Groundwater is also present in unconsolidated sand and gravel of the Rio Grande aquifer system. Water enters this aquifer through runoff from mountainous areas surrounding the basin. Most of this water is lost through evaporation before it can reach the aquifer. The quality of this water is affected by the quality of the runoff that reaches it.

From: Farmington Proposed Resource Management Plan and Final Environmental Impact Statement. March 2003. US Department of Interior, Bureau of Land Management, Farmington Field Office, Farmington, NM (BLM-NM-PL-03-014-1610).

Noble Energy, Inc.

Below-grade Tank Design and Construction General Plan

San Juan Basin Locations

This general plan was written in accordance with New Mexico Administrative Code 19.15.17 to describe Noble Energy's standard design and construction of below-grade tanks in the San Juan Basin. Any tanks that do not conform to this plan will be described in separate, specific plans submitted to the Oil Conservation Division for those tanks.

All below-grade tanks will be designed and constructed to contain liquids and solids, to prevent contamination of fresh water, and to protect public health and the environment (19.15.17.11 A). The location of these tanks will be indicated by the existing well site sign in accordance with NMAC 19.15.16.8. Noble will ensure the tank is fenced in accordance with 19.15.17.11 D to prevent unauthorized access. Fences will be designed and maintained to keep livestock and wildlife out of the tank area. If the tank is located within 1,000 feet of a permanent residence, school, hospital, institution, or church, a six-foot (minimum height) chain link security fence with at least two strands of barbed wire along the top will be used instead. Migratory birds and other wildlife will be protected from entering the tank from the top by netting, screening, or other covering that prevents access into the tank (19.15.17.11 E).

All tanks will be constructed from materials resistant to that tank's contents as well as to sunlight damage (19.15.17.11 I). The foundation of the tank will be level and free from objects that could crack or dent the tank liner or bottom. All tanks will be constructed so that overflow is prevented and surface water run-on is not collected. These tanks do not have double walls. The side walls are open for visual inspection for leaks. The tanks will be enclosed within a secondary containment structure sized to accommodate all possible overflow in the event the tank fills before it can be pumped (i.e. resulting from an unusual rain event). This secondary containment structure will be surrounded on the surface by a berm to prevent surface water flow into the tank or containment structure. Tanks will be pumped of produced water at regular intervals to prevent overflow.

Noble Energy, Inc.
Below-grade Tank Maintenance and Operations General Plan
(Item 11)
San Juan Basin Locations

This general plan was written in accordance with New Mexico Administrative Code 19.15 17 12 to describe Noble Energy's standard maintenance and operations for below-grade tanks in the San Juan Basin. Any tanks that do not conform to this plan will be described in separate, specific plans submitted to the Oil Conservation Division for those tanks.

All tanks will be maintained and operated such that:

- liquids and solids are contained in the tank
- the integrity of the liner is maintained
- the liner system and/or secondary containment system is maintained
- contamination of fresh water is prevented
- public health and the environment are protected

Noble will not discharge or store any hazardous waste in the below-grade tank.

Noble will inspect the below-grade tank at least monthly and will maintain a written record of each inspection for five years. In the event of a leak, or if there is any penetration of the tank below the liquid's surface, Noble will remove all liquid above the damage point (leak) within 48 hours. Noble will notify the appropriate division office within 48 hours of the discovery. The damage will be repaired or the entire tank will be replaced.

Noble will not allow a tank to overflow or allow surface water run-on to enter the tank. Noble will operate this tank in order to prevent the collection of surface water run-on. The tank will be operated so that adequate freeboard is maintained to avoid overtopping the tank.

Noble will remove any visible or measurable layer of oil from the fluid surface of a below-grade tank.

Noble Energy, Inc
Below-grade Tank Closure General Plan
(Item 11)
San Juan Basin Locations

This general plan was written in accordance with New Mexico Administrative Code 19 15 17 13 to describe Noble Energy's standard closure of below-grade tanks in the San Juan Basin. Any tanks that do not conform to this plan will be described in separate, specific plans submitted to the Oil Conservation Division for those tanks.

Noble will close below-grade tanks according to the requirements of NMAC 19 15 17 13 A, unless otherwise required by the division due to imminent danger to fresh water, public health, or the environment. Noble will close existing below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of NMAC 19 15 17 11 or are not included in Paragraph (5) of Subsection I of 19 15 17 11 within five years of June 16, 2008, unless they are retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19 15 17 11. Noble will close permitted below-grade tanks 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 in accordance with a closure plan that the appropriate division office approves.

Noble will use division-approved methods to close below-grade tanks (Subsection E 19 15 17.13). Noble will remove liquids and sludge from a below-grade tank prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Noble will remove the tank and either dispose of it in a division-approved facility, recycle it, reuse it, or reclaim it in a manner that the appropriate division office approves. Any associated on-site equipment will be removed unless required for another purpose on site.

Noble will test the soils under the tank to determine whether or not a release has occurred. Noble will collect at a minimum:

- a five-point, composite sample
- individual grab samples from any area that is wet, discolored, or showing other evidence of release

Noble will have samples analyzed 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 as approved by the division, does not exceed 0.2 mg/kg
- total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method approved by the division, does not exceed 50 mg/kg
- the TPH concentration, as determined by EPA method 418.1 or other EPA method approved by the division, does not exceed 100 mg/kg
- the chloride concentration, as determined by EPA method 300.1 or other division-approved EPA method, does not exceed 250 mg/kg, or the background concentration, whichever is greater

Noble will notify the division of testing results on form C-144. Noble will perform additional testing as required by the division upon their review of the initial results.

If Noble or the division determines that a release has occurred, Noble will comply with NMAC 19.15.29 and 19.15.30 as appropriate.

If the sampling indicates that no release has occurred or that any release did not cause the samples to exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13, Noble will:

- backfill the excavation with compacted, non-waste containing, earthen material
- construct a division-prescribed soil cover
- recontour and re-vegetate the site

Noble will follow Subsections G, H, and I of 19.15.17.13 for soil cover, recontouring, and re-vegetation of the site. Soil cover will consist of the background thickness of topsoil or 1 foot of suitable material to establish vegetation, whichever is greater. The soil required for backfilling the excavation will consist of a minimum of 4 feet of compacted, non-waste containing, earthen material. Recontouring of the land will return the land to a safe and stable condition that blends with the surrounding undisturbed area by restoring the near-original contour of the site. Noble will grade the soil cover to the site's existing grade and will prevent ponding of water and erosion of the cover material. Noble will seed or plant the site (including any associated areas such as access roads that are no longer needed) during the first growing season following tank closure. Noble will drill seed on the contour whenever practical or follow another division-approved seeding method. Noble will achieve 70% of native perennial vegetative cover consisting of at least three native plant species, at least one grass, and without establishment of noxious weed species. This cover will be maintained without irrigation for two successive growing seasons. Noble will repeat seeding and/or planting until this cover goal has been met at which point Noble will notify the division that re-vegetation has been successful.

Notice of tank closure will be according to 19.15.17.13J. Noble will notify the surface owner by certified mail, return receipt requested that the tank is to be closed. The appropriate division office will be notified at least 72 hours (but no more than one week) prior to tank closure. Noble will communicate the following details to the division in this closure notice:

- operator's name (Noble Energy Inc.)
- location unit letter
- location section, township, and range

In the case of closure of a tank associated with a well, Noble will include:

- well name
- well number
- API number

Within 60 days of closure completion, Noble will submit to the division a certified closure report on form C-144 as specified in 19.15.17.13K.

Item # 15: Disposal Facility name and permit number (page 3)

The following are used by Noble Energy Inc. for waste water disposal.

Company: AGUA MAS

Phone: 505-632-3640

Permit #: IPI-278

Location: PRETTY LADY 30-11-34 #1

API: 30-045-30922

Company: BASIN DISPOSAL

Phone: 505-334-3013

Permit #: NM001-0005

Location: Disposal # 001

API: 30-045-26862

Company: T-N-T DISPOSAL

Phone: 505-320-2130
505-320-2737

Permit #: NM001-0008