

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

MAR 19 2013

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NM96248

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

LEGACY RESERVES OPERATING LP

3a. Address

PO BOX 10848
MIDLAND, TX 79702

3b. Phone No. (include area code)

432-689-5200

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
BARNES FEDERAL #2

9. API Well No.
30-025-02664

10. Field and Pool or Exploratory Area
BOUGH; ABO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL & 660' FWL, UNIT LETTER D, SEC 24, T9S, R35E

11. County or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

KEVIN BRACEY

Title OPERATIONS SUPERINTENDENT

Signature

Date 02/21/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Petroleum Engineer

Date

MAR 21 2013

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title
Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

MAR 21 2013

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Conditions of Approval

Legacy Reserves Operating LP
Barnes Federal #2
Lease NM96248 3002502664

Active
660 JNL & 660 JWL

1. Tank battery must be bermed/diked (must be able to contain 1 1/2 times the volume of the largest tank).
2. Submit for approval of water disposal method.
3. Submit updated facility diagrams as per Onshore Order #3
4. This agency shall be notified of any spill or discharge as required by NTL-3A.
5. All outstanding environmental issue must be addressed within 90 days. Contact Jim Amos for inspection and to resolve environmental issues. 575-234-5909
6. Install legible well sign on location with operator name, well name and number, lease number, unit number, 1/4 1/4, section, township, and range. NMOCD requires the API number on well signs.
7. Subject to like approval by NMOCD.

BARNES Feedwell

NM # 96248

API 30-025-21759

33.525906 N - 103.309868 W

Sec 24 - T9S - R35E

BARNES Fed #2

Nm # 96248

API # 30-025-02664

Sec 24 - T9S - R35E

33.525040 N - 103.319600 W

BARNES Fed Well #1
S/I

Production Phase

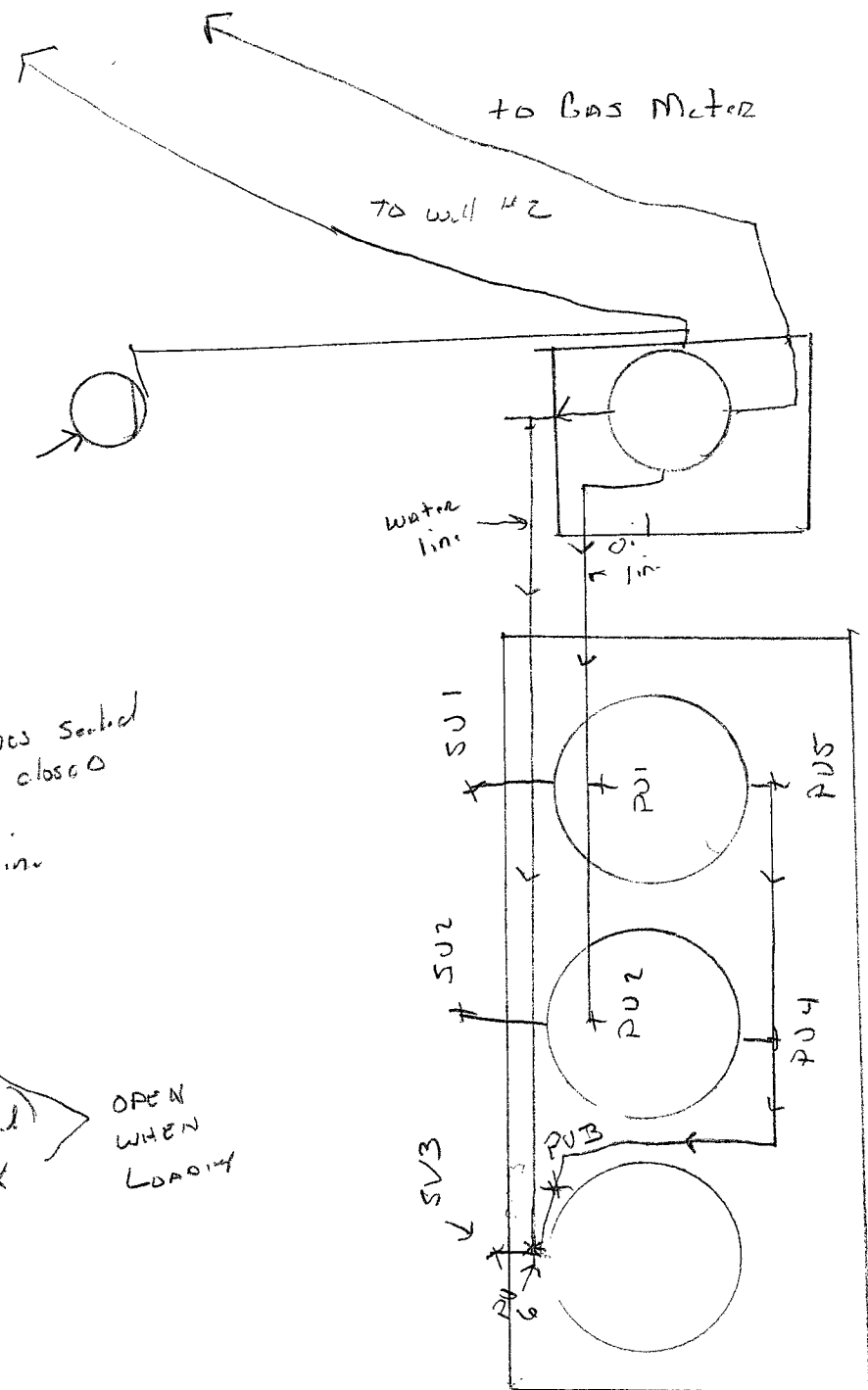
- PU 1 - OPEN - Fill line for oil Tank
- PU 2 - CLOSED fill line for oil Tank
- PU 3 - CLOSED Pull Bottom Valve At End of line
- PU 4 - CLOSED to Pull Bottom line
- PU 5 - CLOSED to Pull Bottom line
- PU 6 - OPEN Fill line for water Tank.

ALL VALVES Sealed
when closed

SALES Phase

- SU 1 Load line Valve on oil Tank (Sealed)
- SU 2 Load line Valve on oil Tank (Sealed)
- SU 3 Load line Valve on Water Tank

OPEN
WHEN
LOADING





WATER ANALYSIS REPORT

SAMPLE

Oil Co: LEGACY
Lease: BARNES
Well No.: FED-1
Location: TANK
Attention: ACCT. MANAGER

Date Sampled: 01/11/13
Date Analyzed: 01/14/13
Lab ID Number: 01/14/13LEGACYBARNES FED-1
Account Manager: B STRUBE
Requested By: LAB

File Name: 01/14/13LEGACYBARNES FED-1

Note: 0
BECCA

ANALYSIS

1 pH 7.0
2 Specific Gravity 1.073
3 CaCO₃ Saturation Index @80 F 0.61
@140 F 1.46

DISSOLVED GASES

4 Hydrogen Sulfide
5 Carbon Dioxide
6 Dissolved Oxygen

MG/L	EQ. WT	MEQ/L
0		
53		
NOT DETERMINED		

CATIONS

7 Calcium (Ca⁺⁺)
8 Magnesium (Mg⁺⁺)
9 Sodium (Na⁺⁺) (Calculated)
10 Barium (Ba⁺⁺)

6,720	20.1	334.33
1,714	12.2	140.48
31,509	23.0	1369.97
0	68.7	0.00

ANIONS

11 Hydroxyl (OH⁻)
12 Carbonate (CO₃⁻)
13 Bicarbonate (HCO₃⁻)
14 Sulfate (SO₄⁻)
15 Chloride (Cl⁻)

17.0	0.00
30.0	0.00
61.1	4.99
48.8	3.20
35.5	1830.99

16 Total Dissolved Solids

105,559

17 Total Iron

(Fe)

102

18.2

5.61

18 Total Hardness as CaCO₃

23,850

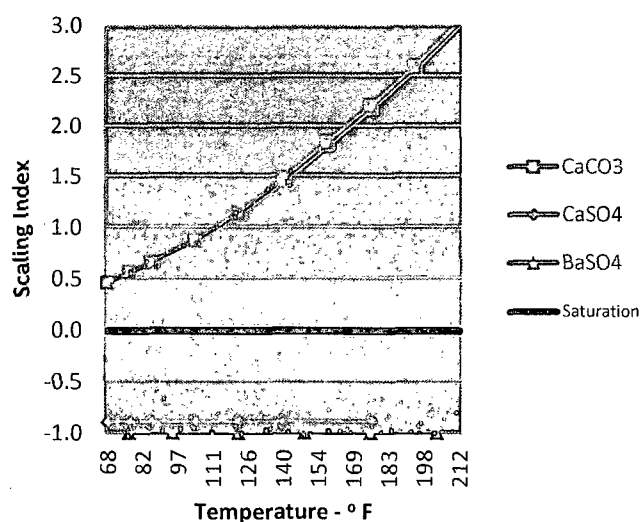
19 Resistivity-NaCl equivalent@

69 °F

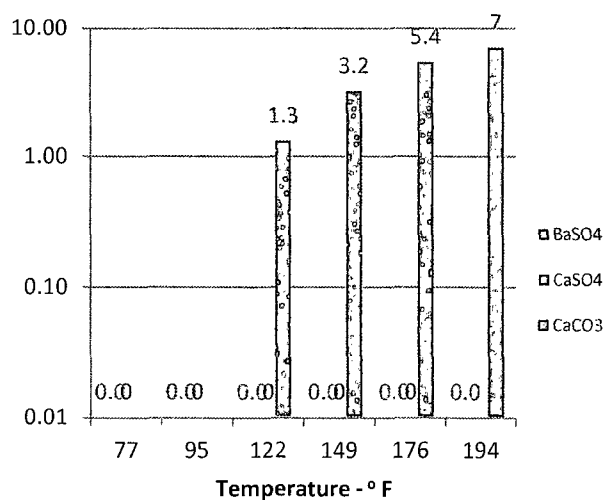
0.0596

OHM-METERS

Composite
Kel-tech Scaling Index



Maximum
Amount of Scale in Pounds per 1000
BBLs



WATER DISPOSAL ONSHORE ORDER #7

The following information is needed before your method of water disposal can be considered for approval.

1. Name(s) of formation (s) producing water on the lease.

ABO

2. Amount of water produced from each formation in barrels per day.

1/4 bpd

3. How water is stored on the lease.

300 bbl Tank

4. How water is moved to disposal facility.

Truck to Disposal

5. Operator's of disposal facility

a. Lease name or well name and number Richardson SWD

b. Location by ¼ ¼ Section, Township, and Range of the disposal system _____

Unit 5 Sec 5 - T 14S - R 36E

c. The appropriate NMOCD permit number _____

Permit # 212

Environmental Protection Agency
Spill Prevention Control & Countermeasures Plan

Legacy Reserves

Barnes Federal #1, #2

Lea County, New Mexico

FACILITY INFORMATION

1.0 Facility Type and Location

Facility: Barnes Federal #1, #2
Type of Facility: Onshore Oil and Gas Production
State Identification: 30-025-21759
Facility Location: 1.8 miles northeast of Crossroads

County: Lea State: New Mexico
Latitude: 33.525906 N Longitude: 103.309868 W
Direction to Facility: Refer to Facility Location Map, Attachment 1

1.1 Facility Owner and Operator

Name and address of owner:

Name: Legacy Reserves
Address: 303 W. Wall, Suite 1400
Midland, Texas 79701

Telephone: (432) 689-5200

Name and address of operator:

Name: Legacy Reserves
Address: 303 W. Wall, Suite 1400
Midland, Texas 79701

Telephone: (432) 689-5200

2.0 Determination of Non-Applicability

☐ This Facility does not meet the general applicability requirements of 40 CFR, Part 112.1 (b)

and/or

This Facility meets the non-applicability requirements of 40 CFR, Part 112.1 (d) for the following reasons:

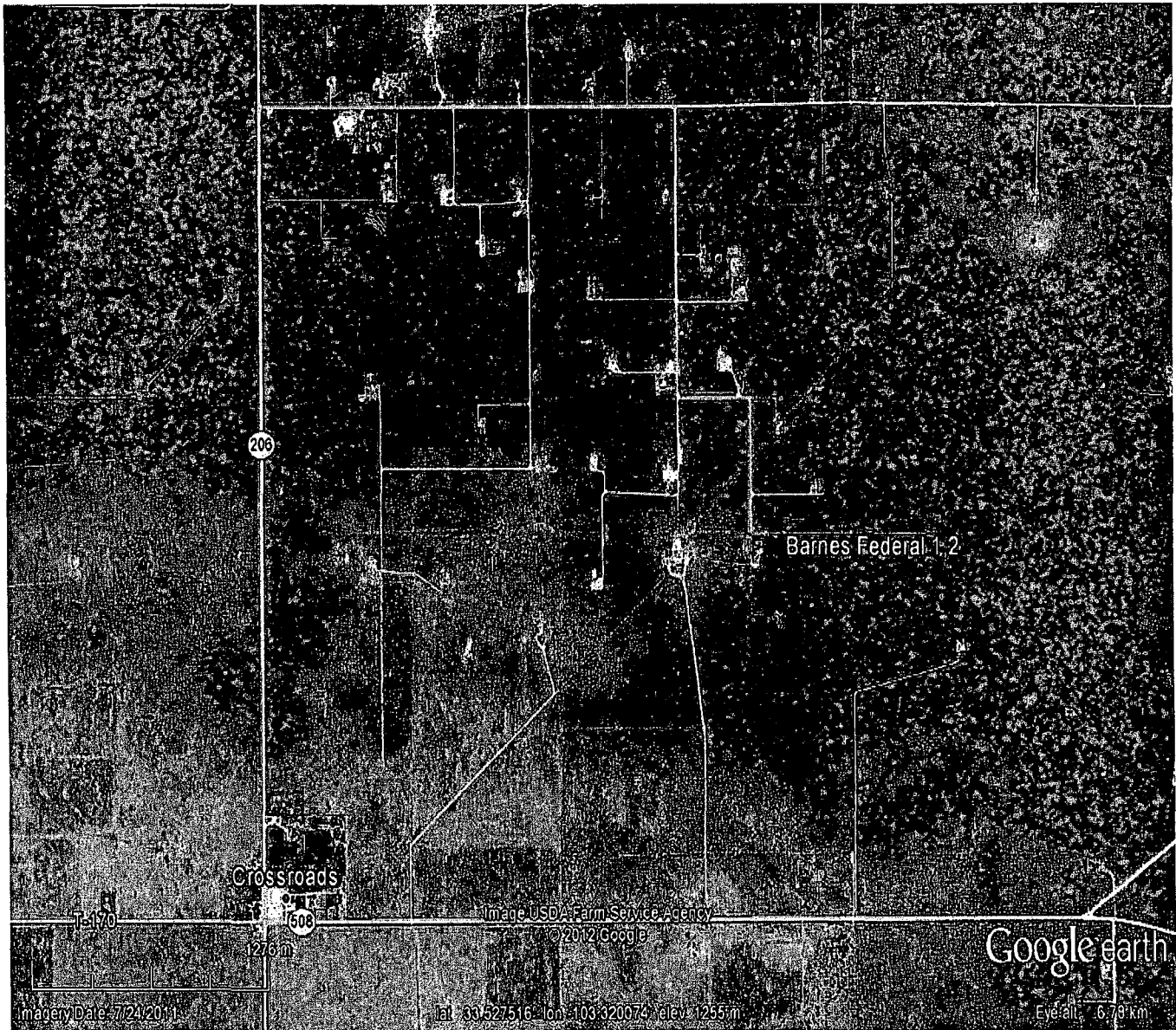
☒ This Facility, due to its location, could not reasonably be expected to create a discharge of oil in harmful quantities into or upon navigable waters or adjoining shorelines. The nearest waters are 1.2 miles northeast and 2.3 miles east of site.

☐ This Facility has a storage capacity of less than 1,320 gallons of oil.

☐ This Facility is a natural gas production facility which does not produce merchantable quantities of oil.

Operator: Legacy Reserves
Facility: Barnes Federal #1, 2
Date: 05/23/12

Location Map



Directions:

From the intersection of Highway 206 north and CR 182 near Crossroads, New Mexico; follow CR 182 east for 0.7 miles. Turn south following the road for 0.5 miles. Turn south following the road for 0.7 miles into Tank Battery.

**Legacy Reserves
Barnes Federal 1,2
Lea, NM**

Figure 1 – Location Map

Topographic Map

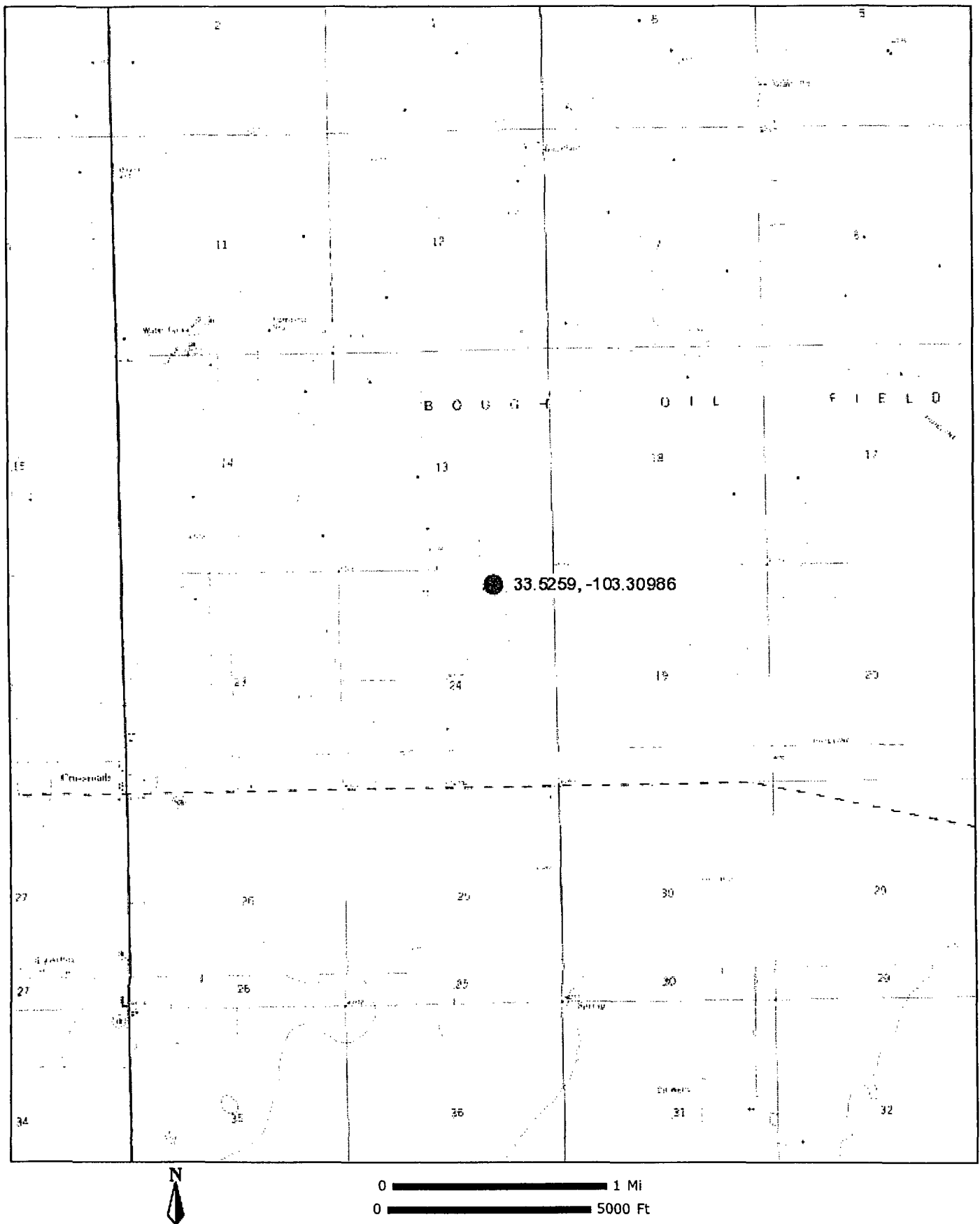
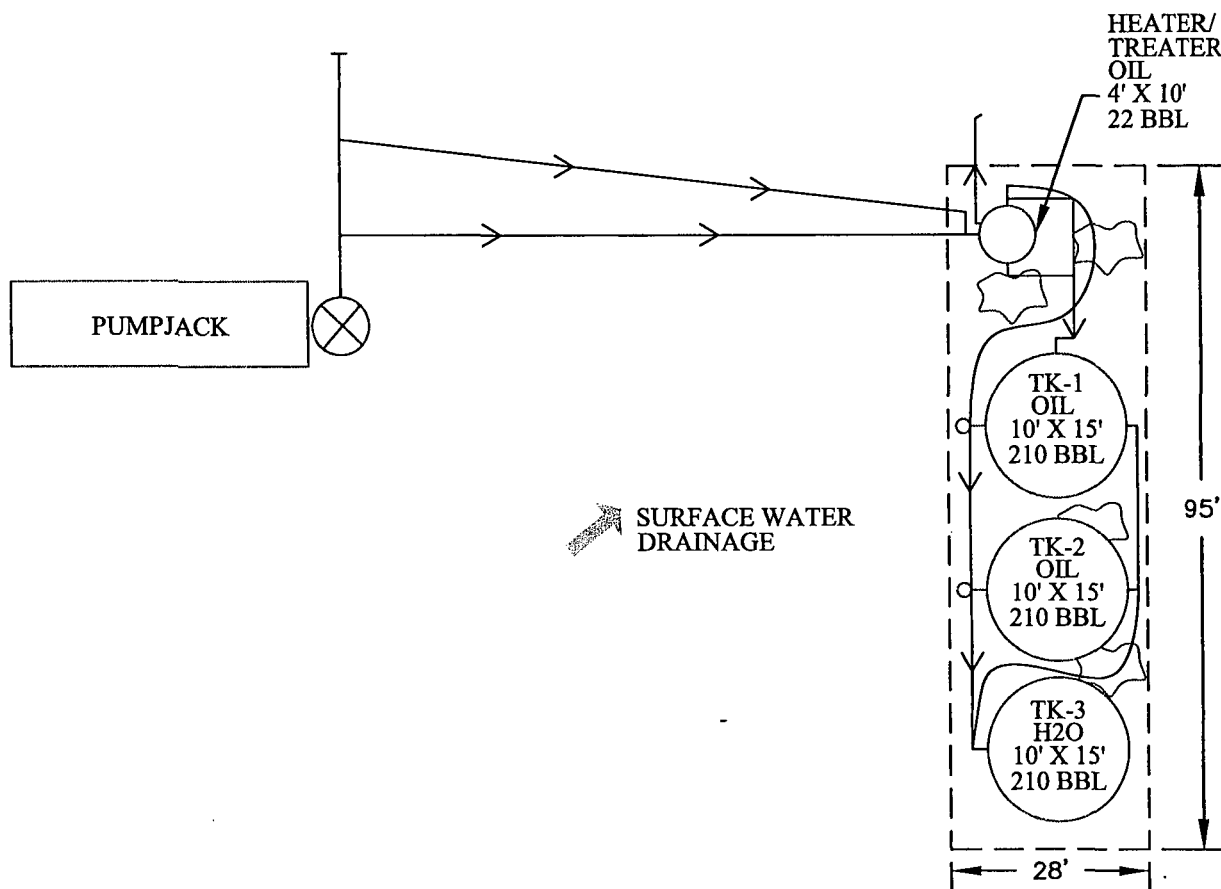


Figure 2-
Topographic Map

Legacy Reserves / Barnes Federal 1,2
Lea County, New Mexico

Site Plan



- - Berm
- - - - - Fence
- - Pipeline
- ☼ - Oil Staining

Lat.: 33.525906° N
Long.: -103.309868° W



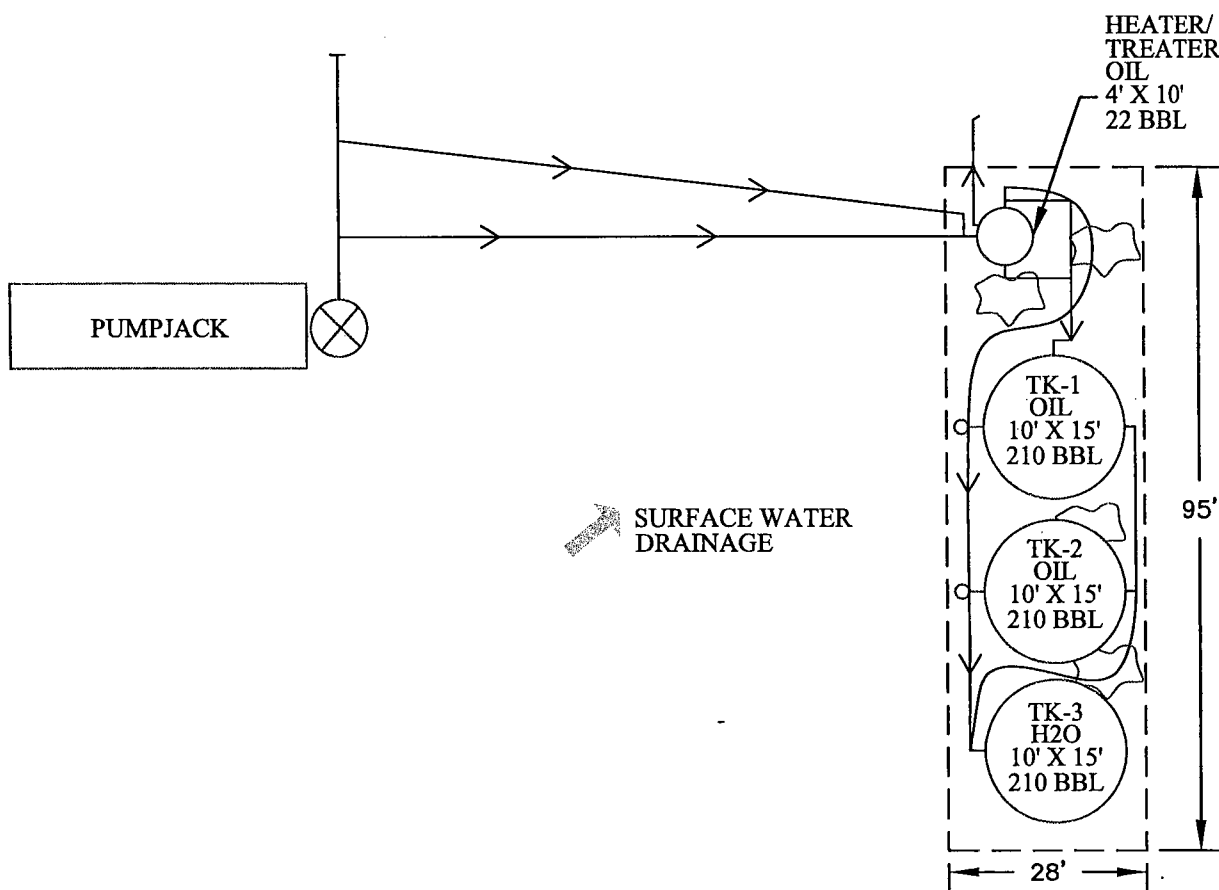
Date: 06/18/2012

Scale: NTS

Drawn By: EMF

Barnes Federal No. 1, 2
Legacy Reserves
Lea County, New Mexico
SPCC Site Plan

Site Detail Map



- - Berm
- - - - Fence
- - Pipeline
- ☼ - Oil Staining

Lat.: 33.525906° N
Long.: -103.309868° W



Date: 06/18/2012

Scale: NTS

Drawn By: EMF

Barnes Federal No. 1, 2
Legacy Reserves
Lea County, New Mexico
SPCC Site Plan

**BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972**

**Disposal of Produced Water From Federal Wells
Conditions of Approval**

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency shall be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All above ground structures on the lease shall be painted Shale Green (5Y 4/2), or as per approved APD stipulations. This is to be done within 90 days, if you have not already done so.
6. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
7. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
8. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.

9/22/09