

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

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 recomplete 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 recompletion 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 \_\_\_\_\_ Title Petroleum Engineer Date MAR 21 2013

Office 

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 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.

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 FNL & 660 FNL*

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 Fedwell

NM # 96248

API 30-025-21759

33.525906 N - 103.309868 W

Sec 24 - T 9S - R 35E

BARNES Fed #2

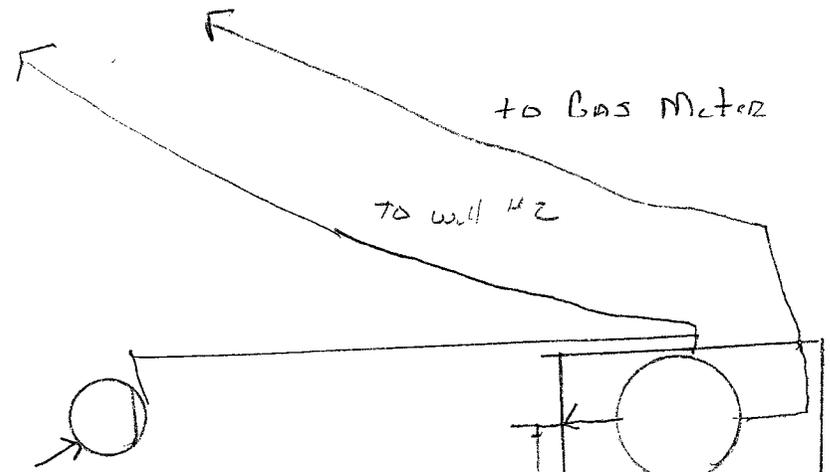
Nm # 96248

API # 30-025-02664

Sec 24 - T 9S - R 35E

33.525040 N - 103.319600 W

BARNES Fed Well #1  
S/I



Production Phase

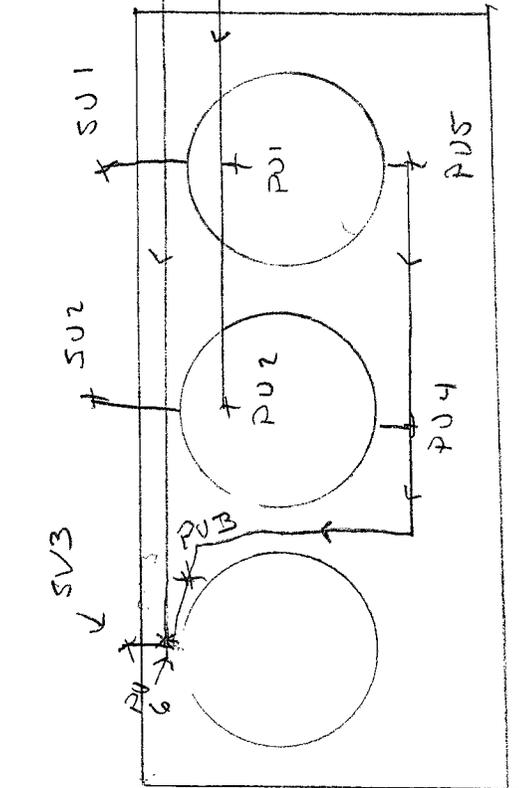
- DU 1 - OPEN - fill line for oil TANK
- PU 2 - CLOSED fill line for oil TANK
- PU 3 - CLOSED Pull Bottom valve At End of line
- PU 4 - CLOSED to Pull Bottom line
- PU 5 - CLOSED to Pull Bottom line
- DU 6 - OPEN fill line for water TANK.

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

## ANALYSIS

1 pH 7.0  
 2 Specific Gravity 1.073  
 3 CaCO<sub>3</sub> Saturation Index @80 F 0.61  
                                   @140 F 1.46

File Name: 01/14/13LEGACYBARNES FED-1  
 Note: 0  
 BECCA

## DISSOLVED GASES

4 Hydrogen Sulfide  
 5 Carbon Dioxide  
 6 Dissolved Oxygen

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

## CATIONS

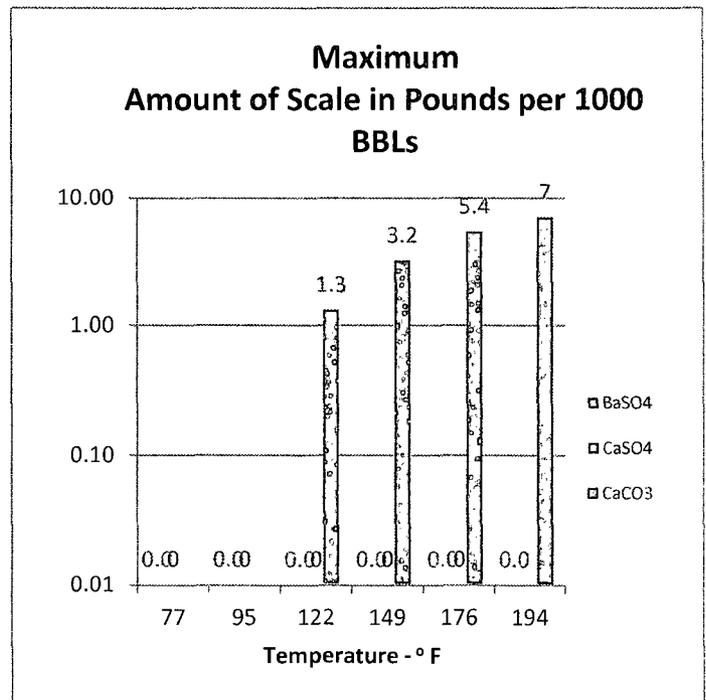
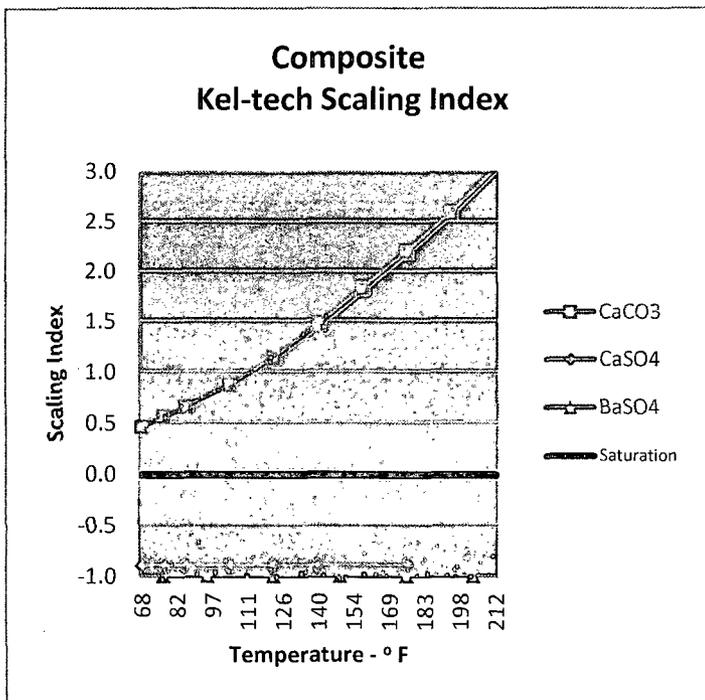
7 Calcium (Ca<sup>++</sup>)  
 8 Magnesium (Mg<sup>++</sup>)  
 9 Sodium (Na<sup>++</sup>) (Calculated)  
 10 Barium (Ba<sup>++</sup>)

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<sup>-</sup>)  
 12 Carbonate (CO<sub>3</sub><sup>-</sup>)  
 13 Bicarbonate (HCO<sub>3</sub><sup>-</sup>)  
 14 Sulfate (SO<sub>4</sub><sup>-</sup>)  
 15 Chloride (Cl<sup>-</sup>)  
 16 Total Dissolved Solids  
 17 Total Iron (Fe)  
 18 Total Hardness as CaCO<sub>3</sub>  
 19 Resistivity-NaCl equivalent@ 69 °F

	17.0	0.00
	30.0	0.00
305	61.1	4.99
156	48.8	3.20
65,000	35.5	1830.99
105,559		
102	18.2	5.61
23,850		
0.0596	OHM-METERS	



### 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 1/4 1/4 Section, Township, and Range of the disposal system \_\_\_\_\_

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

c. The appropriate NMOCD permit number \_\_\_\_\_

Permit # 212

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Environmental Protection Agency  
Spill Prevention Control & Countermeasures Plan

Legacy Reserves

Barnes Federal #1, #2

Lea County, New Mexico

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**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.

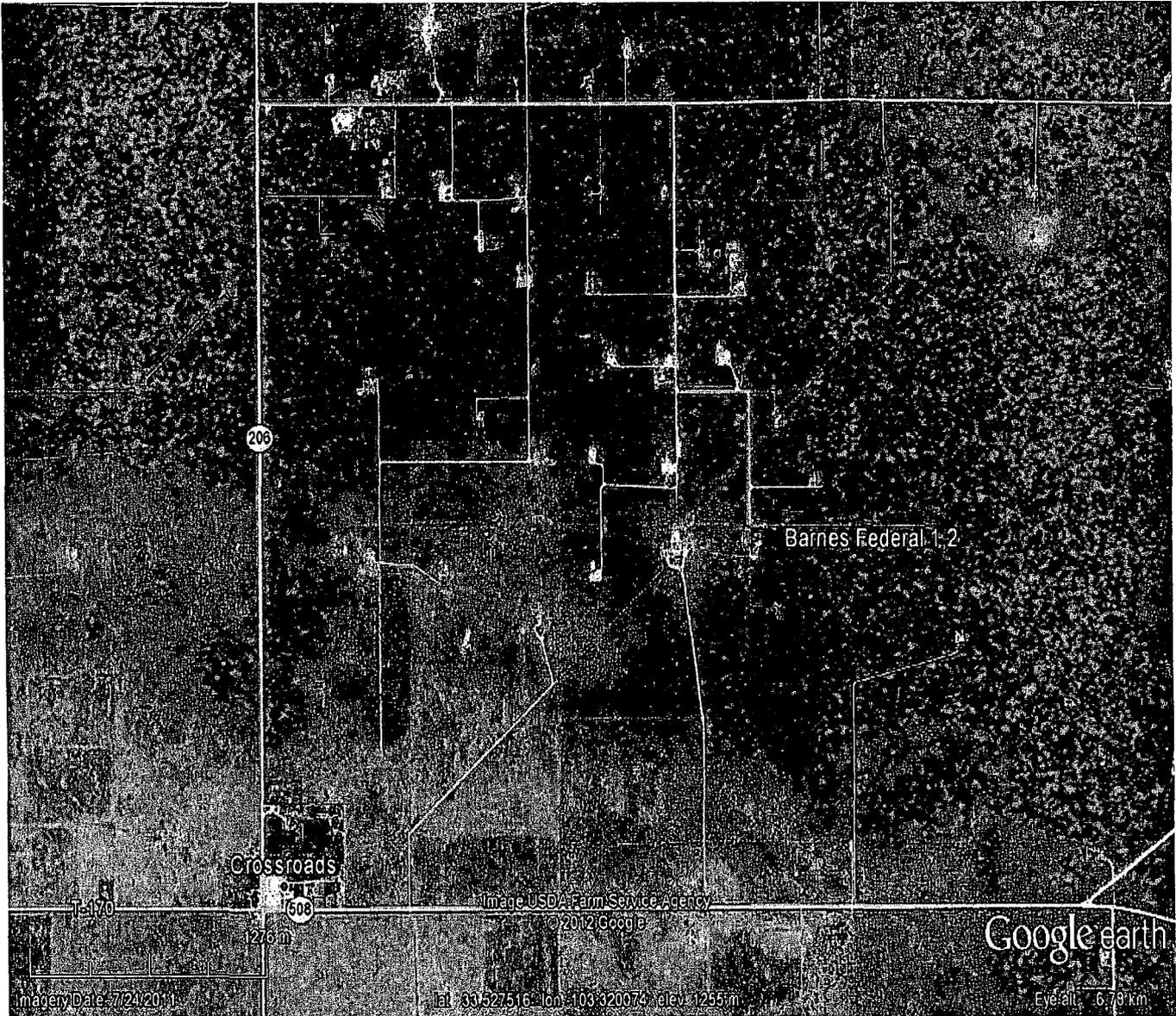
This Facility has a storage capacity of less than 1,320 gallons of oil.

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

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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

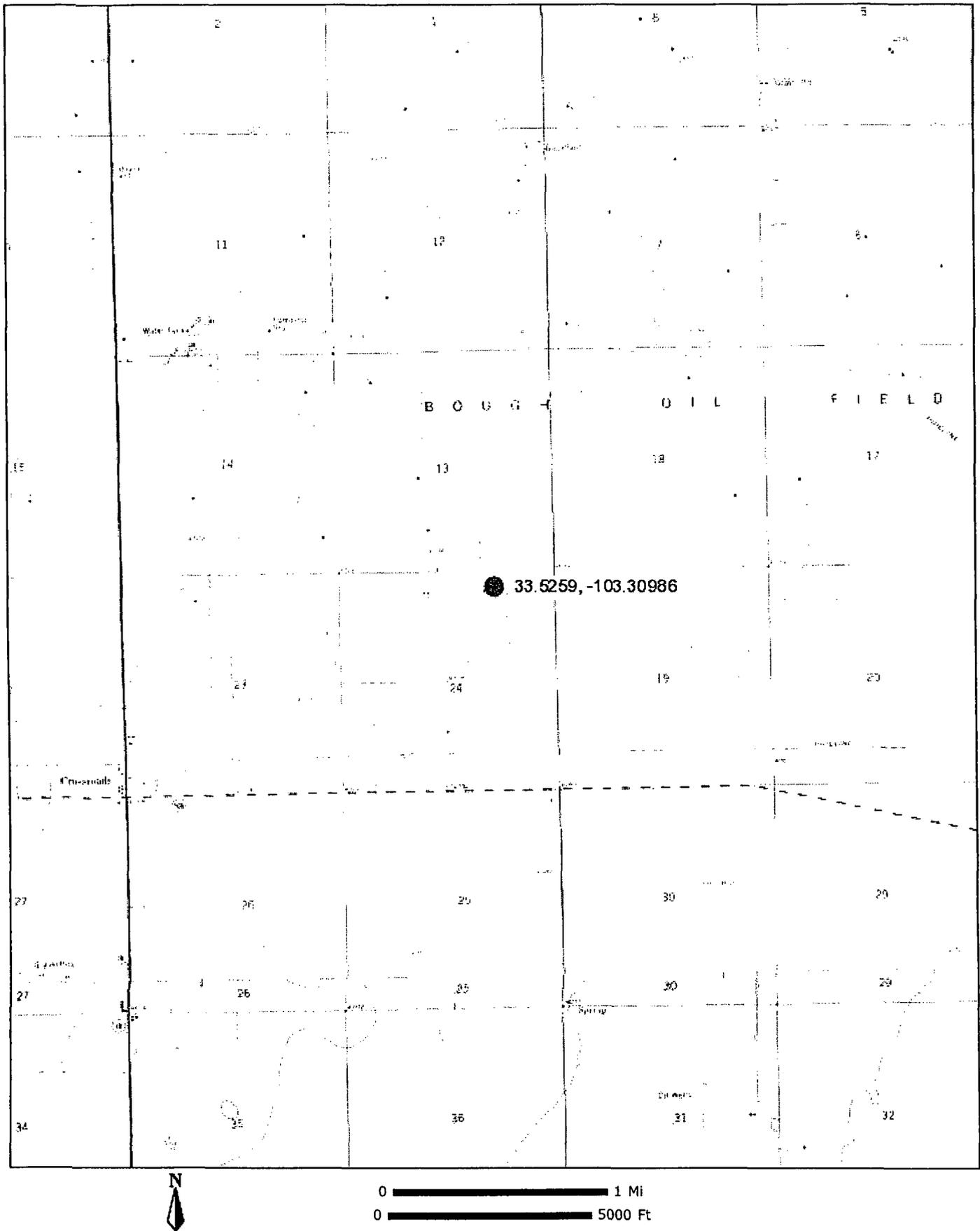
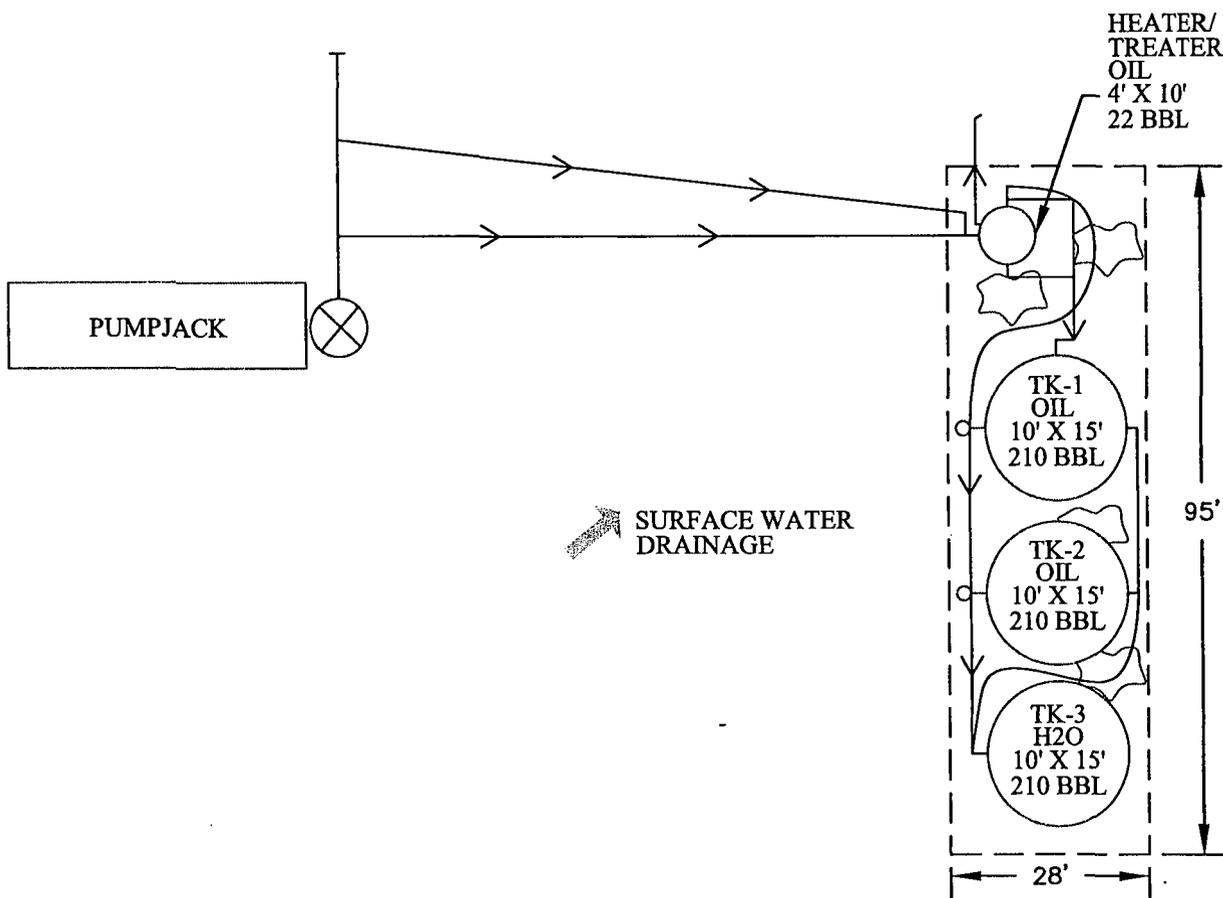


Figure 2-  
Topographic Map

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

Site Plan



- - Berm
- - - - Fence
- — — Pipeline
- ☞ - Oil Staining

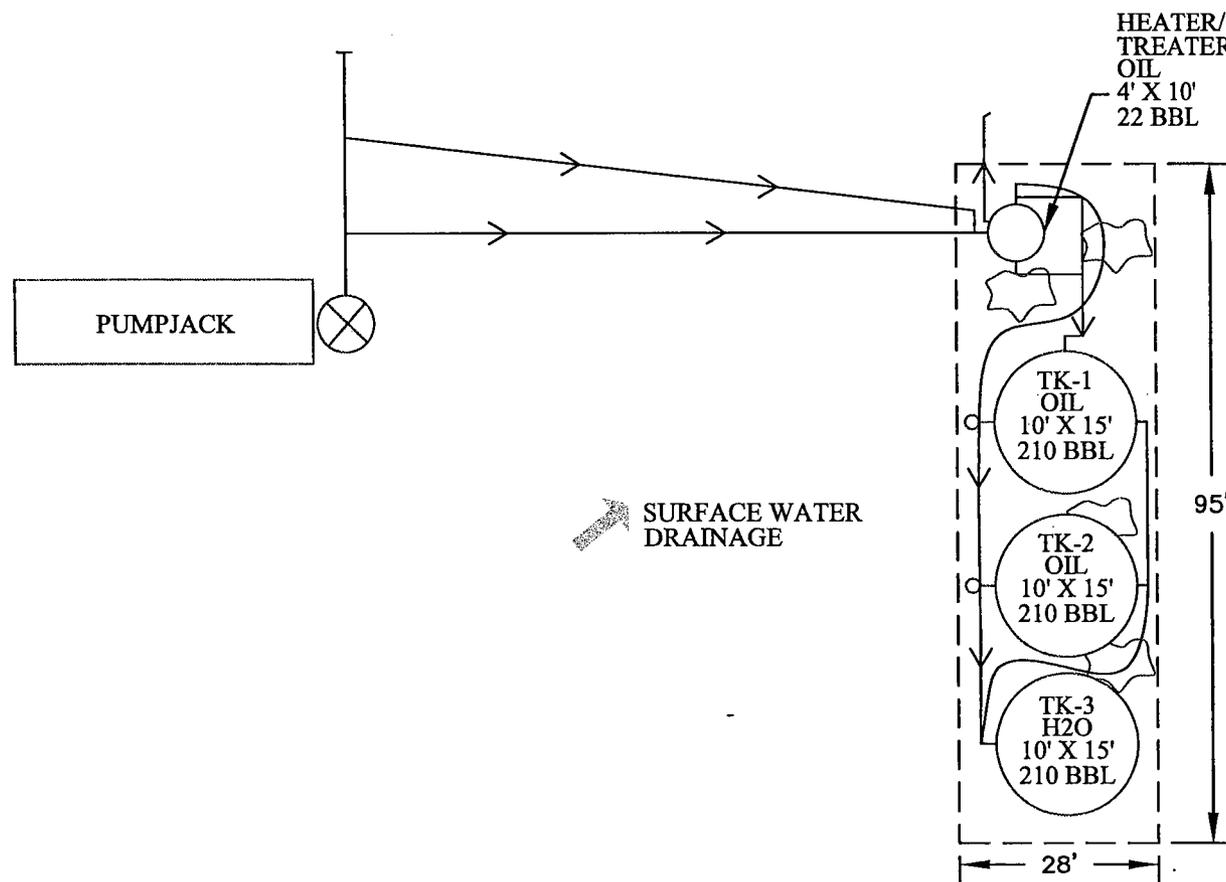
Lat.: 33.525906° N  
Long.: -103.309868° W



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



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