



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## SUPO Data Report

09/11/2017

APD ID: 10400013117

Submission Date: 04/20/2017

Highlighted data  
reflects the most  
recent changes

Operator Name: LEGACY RESERVES OPERATING LP

Well Name: LEA UNIT

Well Number: 55H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Lea\_55H\_road\_map\_04-20-2017.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? YES

#### ROW ID(s)

ID:

Do the existing roads need to be improved? YES

**Existing Road Improvement Description:** Existing roads will be improved and maintained to prevent soil erosion and accommodate all-weather traffic, according to BLM standards.

**Existing Road Improvement Attachment:**

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

### Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Lea\_55H\_well\_map\_04-20-2017.pdf

**Operator Name:** LEGACY RESERVES OPERATING LP

**Well Name:** LEA UNIT

**Well Number:** 55H

**Existing Wells description:**

## **Section 4 - Location of Existing and/or Proposed Production Facilities**

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Estimated Production Facilities description:**

**Production Facilities description:**

**Production Facilities map:**

Lea\_55H\_production\_diagram\_04-20-2017.pdf

Lea\_Unit\_55H\_Gas\_Capture\_Plan\_20170829152039.pdf

## **Section 5 - Location and Types of Water Supply**

### **Water Source Table**

**Water source use type:** INTERMEDIATE/PRODUCTION CASING,  
STIMULATION, SURFACE CASING

**Water source type:** GW WELL

**Describe type:**

**Source latitude:**

**Source longitude:**

**Source datum:**

**Water source permit type:** WATER WELL

**Source land ownership:** FEDERAL

**Water source transport method:** TRUCKING

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 17705

**Source volume (acre-feet):** 2.2820523

**Source volume (gal):** 743610

**Water source and transportation map:**

Lea\_55H\_water\_source\_map\_04-20-2017.pdf

**Water source comments:**

**New water well?** NO

### **New Water Well Info**

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Operator Name:** LEGACY RESERVES OPERATING LP

**Well Name:** LEA UNIT

**Well Number:** 55H

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

## Section 6 - Construction Materials

**Construction Materials description:** CONSTRUCTION MATERIALS: CALICHE WILL BE USED TO CONSTRUCT THIS WELL PAD Any construction material that may be required for surfacing of the drill pad will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from Federal lands without prior approval from the appropriate surface management agency. See attached for source information.

**Construction Materials source location attachment:**

water\_source\_map\_building\_material\_map\_existing\_road\_map\_04-20-2017.pdf

## Section 7 - Methods for Handling Waste

**Waste type:** DRILLING

**Waste content description:** Drilling fluids (flowback, water, cuttings)

**Amount of waste:** 20000 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Drilling fluids will be contained in steel mud tanks.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** NMOCD approved disposal site in Halfway, NM.

## Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)**

**Reserve pit width (ft.)**

**Reserve pit depth (ft.)**

**Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Operator Name:** LEGACY RESERVES OPERATING LP

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**Well Number:** 55H

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### **Cuttings Area**

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** YES

**Description of cuttings location** Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.

**Cuttings area length (ft.)**

**Cuttings area width (ft.)**

**Cuttings area depth (ft.)**

**Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

### **Section 8 - Ancillary Facilities**

**Are you requesting any Ancillary Facilities?:** NO

**Ancillary Facilities attachment:**

**Comments:**

### **Section 9 - Well Site Layout**

**Well Site Layout Diagram:**

Lea\_55H\_well\_site\_layout\_04-20-2017.pdf

**Comments:**

### **Section 10 - Plans for Surface Reclamation**

**Type of disturbance:** NO NEW SURFACE DISTURBANCE

**Recontouring attachment:**

Lea\_55H\_recontouring\_plat\_04-20-2017.pdf

**Drainage/Erosion control construction:** Access road and well pad already exist - no construction needed. Any maintenance or improvement necessary will be according to BLM standards.

**Drainage/Erosion control reclamation:** • The original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors. • A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site, with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation. • Erosion

**Operator Name:** LEGACY RESERVES OPERATING LP

**Well Name:** LEA UNIT

**Well Number:** 55H

features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gulying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed. • The site will be free of State- or county-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds are controlled.

**Wellpad long term disturbance (acres):** 0

**Wellpad short term disturbance (acres):** 0

**Access road long term disturbance (acres):** 0

**Access road short term disturbance (acres):** 0

**Pipeline long term disturbance (acres):** 0

**Pipeline short term disturbance (acres):** 4.8562903

**Other long term disturbance (acres):** 0

**Other short term disturbance (acres):** 0

**Total long term disturbance:** 0

**Total short term disturbance:** 4.8562903

**Reconstruction method:** Final reclamation to achieve restoration of the original landform and a natural vegetative community. The original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors.

**Topsoil redistribution:** Evenly.

**Soil treatment:** Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gulying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed. The site will be free of state- or county-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds are controlled.

**Existing Vegetation at the well pad:**

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:**

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:**

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:**

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?**

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?**

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?**

**Seed harvest description:**

**Seed harvest description attachment:**

## Seed Management

### Seed Table

**Operator Name:** LEGACY RESERVES OPERATING LP

**Well Name:** LEA UNIT

**Well Number:** 55H

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

### Seed Summary

**Total pounds/Acre:**

**Seed Type**

**Pounds/Acre**

**Seed reclamation attachment:**

### Operator Contact/Responsible Official Contact Info

**First Name:**

**Last Name:**

**Phone:**

**Email:**

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species? NO**

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** Noxious weeds will be controlled

**Weed treatment plan attachment:**

**Monitoring plan description:** On pumper visits

**Monitoring plan attachment:**

**Success standards:** To BLM standards

**Pit closure description:** N/A (closed loop)

**Pit closure attachment:**

## Section 11 - Surface Ownership

**Operator Name:** LEGACY RESERVES OPERATING LP

**Well Name:** LEA UNIT

**Well Number:** 55H

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** LEGACY RESERVES OPERATING LP

**Well Name:** LEA UNIT

**Well Number:** 55H

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

## **Section 12 - Other Information**

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

### **ROW Applications**

**SUPO Additional Information:**

**Use a previously conducted onsite?** YES

**Previous Onsite information:** ON-SITE PERFORMED ON 8/16/15 RESULTED IN PROPOSED LOCATION BEING OK WHERE STAKED. IT WAS AGREED TO TURN THE LOCATION TO A V-DOOR EAST. IT WAS ALSO AGREED TO MOVE AND PLACE THE TOP SOIL TO THE NORTH, AND THE INTERIM RECLAMATION WILL BE THE NORTH, EAST, SOUTH ANDWEST PORTION OF THIS PAD. PRESENT AT ON-SITE: CRAIG SPARKMAN-LEGACY RESERVES OPERATING, L.P. TRISH BADBEAR-BLM CASSANDRA BROOKS-BLM CHRISTOPHER FREEMAN-CEHMM DOUG BURGER-LEGACY LAND & ENVIRONMENTAL SOLUTIONS KELLY POINDEXTER-WEST COMPANY OF MIDLAND-SURVEYORS

**Other SUPO Attachment**

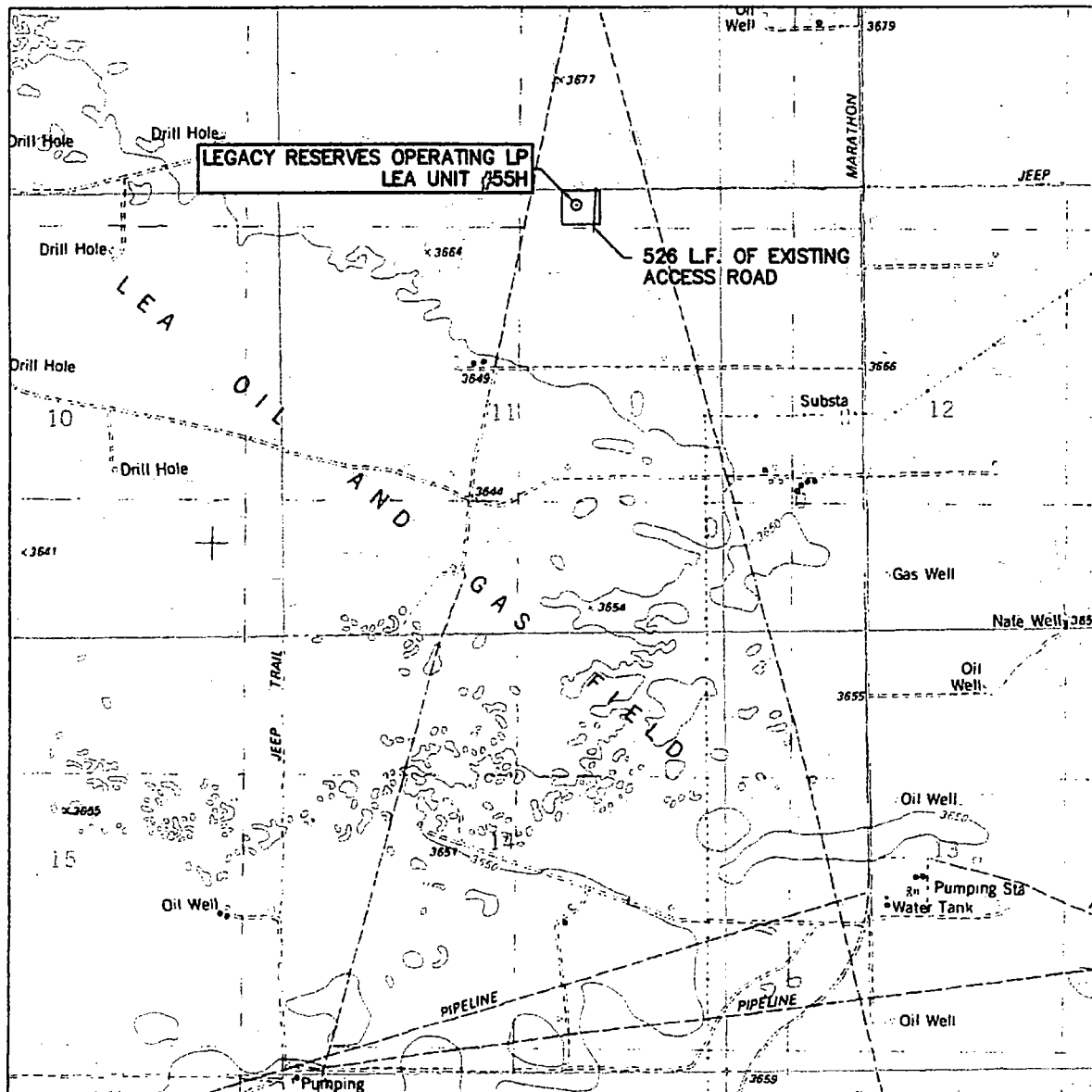


**Operator Name:** LEGACY RESERVES OPERATING LP

**Well Name:** LEA UNIT

**Well Number:** 55H

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
LEA - 10'

SEC. 11 TWP. 20-S RGE. 34-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 170' FNL & 1690' FEL

ELEVATION 3662'

OPERATOR LEGACY RESERVES OPERATING LP

LEASE LEA UNIT

U.S.G.S. TOPOGRAPHIC MAP

LEA



**WEST COMPANY**  
Land Surveyors & Civil Engineers

**SURVEYORS - ENGINEERS - PLANNERS**  
FIRM REGISTRATION NUMBER: 100882-00  
110 W. LOUISIANA AVE., SUITE 110  
MIDLAND, TEXAS 79701  
(432) 687-0885 - FAX (432) 687-0888

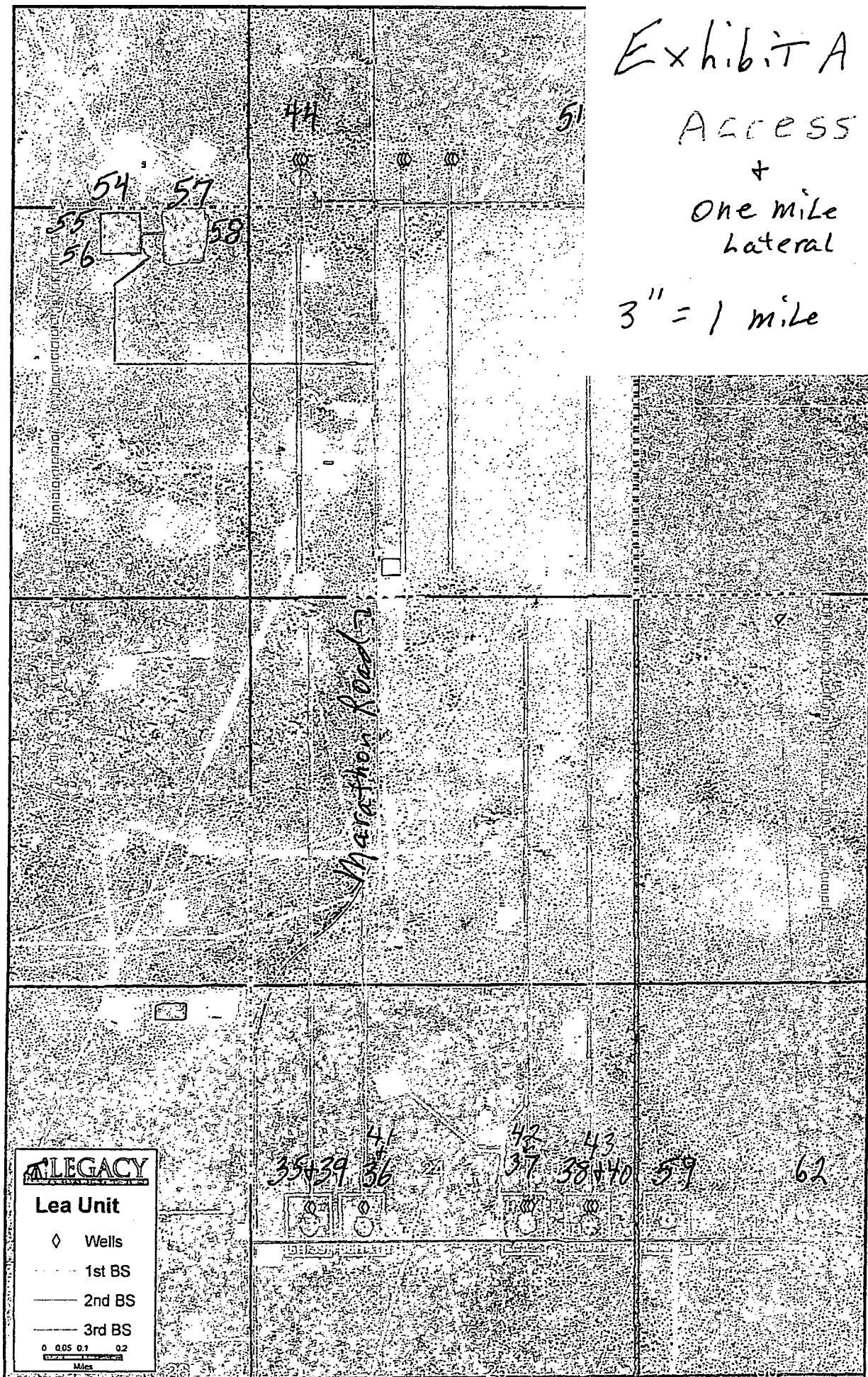
# Exhibit A

Access

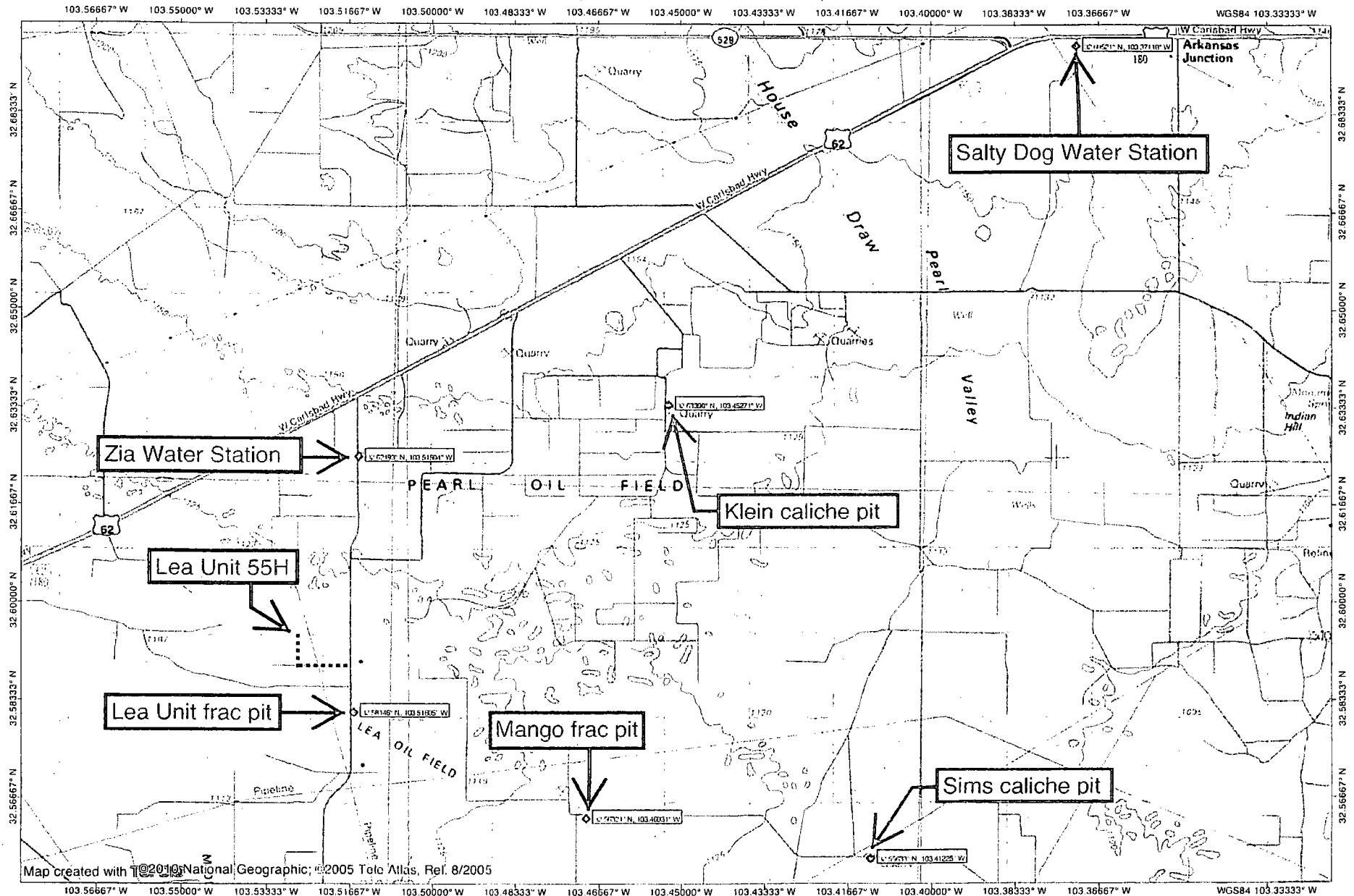
+

One mile  
Lateral

3" = 1 mile



TOPO! map printed on 04/04/17 from "Untitled.tpo"



Map created with T@2010 National Geographic, ©2005 Tolo Atlas, Ref. 8/2005

NATIONAL  
GEOGRAPHIC

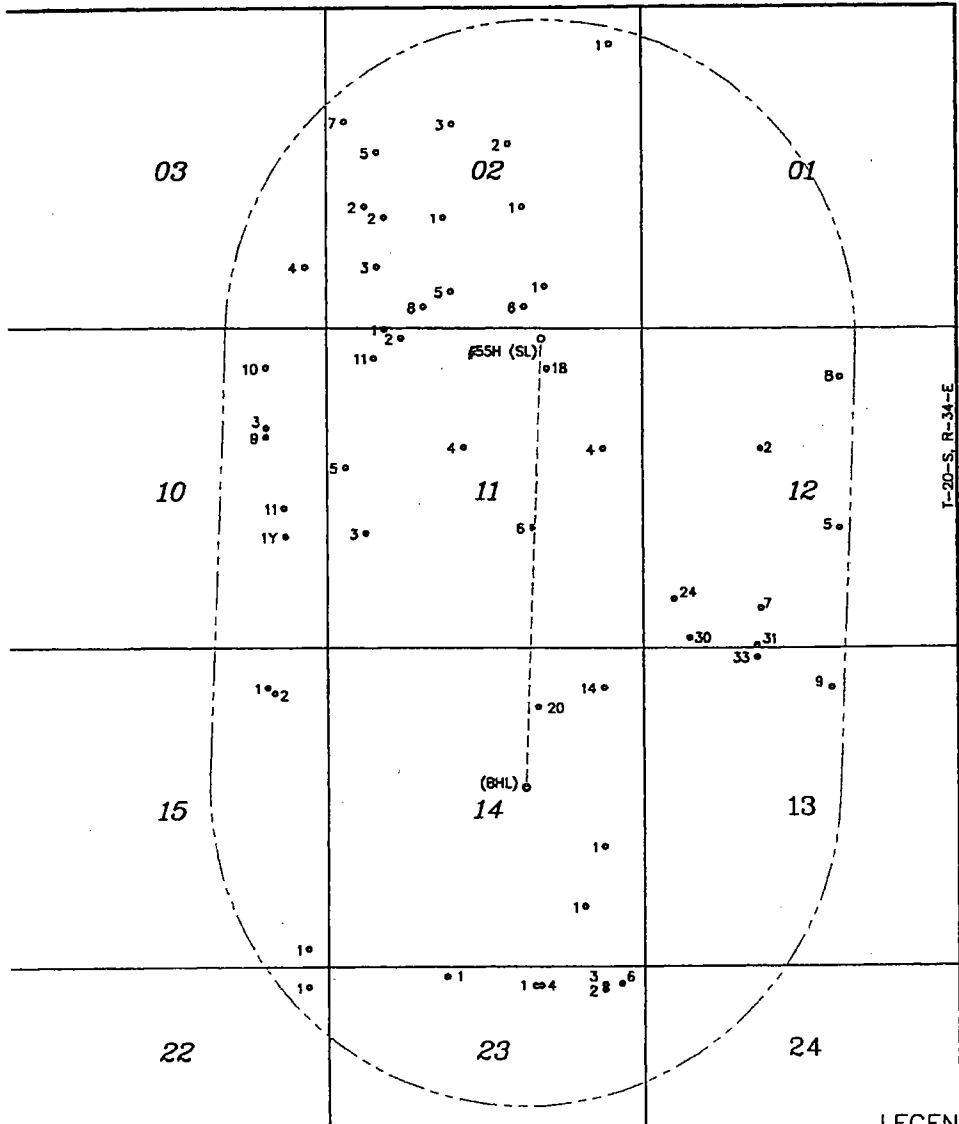
0.0 0.5 1.0 1.5 2.0 2.5 3.0 miles  
0 1 2 3 4 5 km

TN MN  
7"  
04/04/17

Exhibit B

# "Well Proximity Exhibit"

Plot No: 2015-0416-1-H



## LEGEND

- (SL) ○ - Denotes Proposed Surface Well Location
- (BHL) ⊗ - Denotes Proposed Bottom Hole Location
- - Denotes Active Well Location
- - Denotes Wellbore Path
- - Denotes 1 Mile Buffer

Scale  
1" = 3000'

## NOTE:

1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.

2) This Plat only shows wells within a 1 mile Diameter from the centerline of the wellbore according to the NM OCD Oil and Gas Map.



SURVEYORS - ENGINEERS - PLANNERS  
FIRM REGISTRATION NUMBER: 100882-00  
110 W. LOUISIANA AVE., SUITE 110  
MIDLAND, TEXAS 79701  
(432) 687-0865 - FAX (432) 687-0868

## LEGACY RESERVES OPERATING LP

### Proximity Sketch of the

## LEA UNIT 55H

Surface Location:

Section 11, T-20-S, R-34-E

Bottom Hole Location:

Section 14, T-20-S, R-34-E

Lea County, New Mexico

Drawn By: SC/LG

Date: January 10, 2017

Scale: 1" = 3000'

Page: 1 of 1

Revision Date:

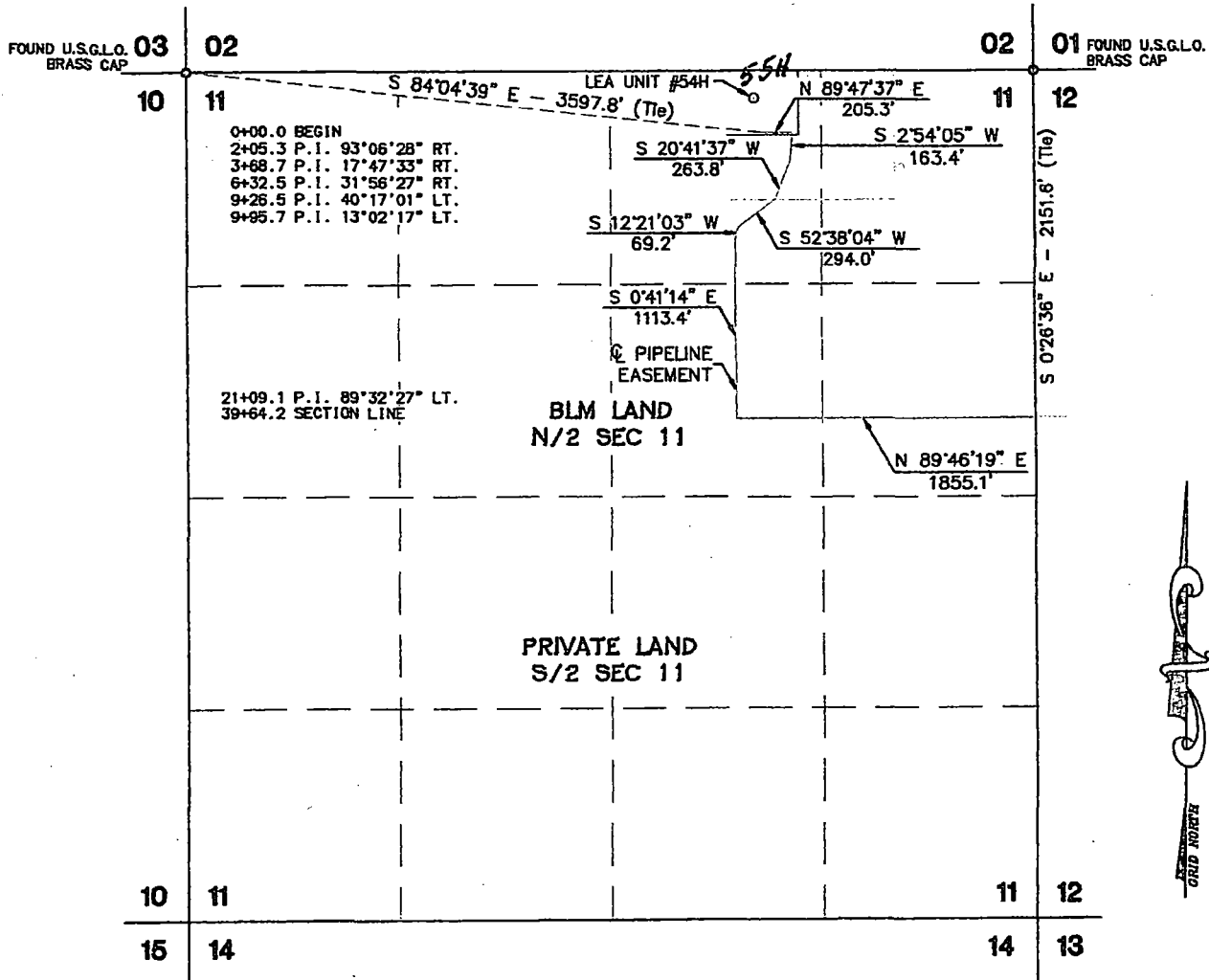
Quadrangle:

W.O. No: 2015-0416-1

Plat No: 2015-0416-1-H

Exhibit E

SECTION 11, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.  
LEA COUNTY  
NEW MEXICO



LEGEND

- - DENOTES FOUND MONUMENT (AS DESCRIBED)
- - DENOTES PIPELINE



LEGAL DESCRIPTION

A STRIP OF LAND BEING 50 FEET WIDE, 3964.2 FEET OR 0.751 MILES IN LENGTH AND BEING 25.0 FEET RIGHT AND 25.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE.

NOTE: The above platted centerline was created using data as provided by client and/or client's representative and has not been staked on the ground or in the field.



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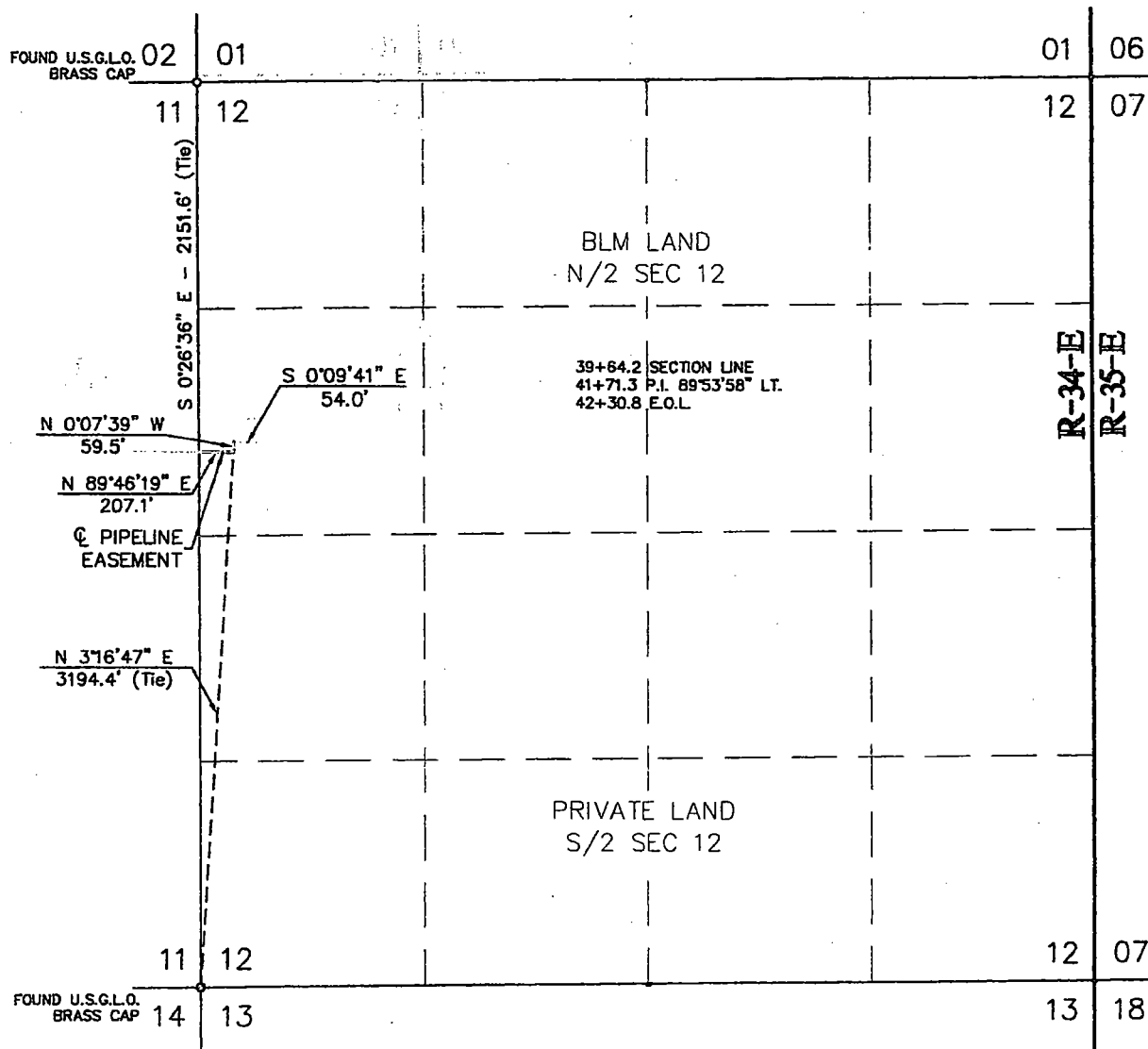
LEGACY RESERVES OPERATING LP

A PIPELINE EASEMENT LOCATED ON  
BLM LAND IN SECTION 11  
TOWNSHIP 20 SOUTH, RANGE 34 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: N/A	Sheet 1 of 1 Sheets
W.O. Number: 2015-0535	Drawn By: SC
Date: 9-15-2015	2015-0535-A4.DWG
Scale: 1" = 1000'	

Ex. E

SECTION 12, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.  
LEA COUNTY NEW MEXICO



LEGEND

- - DENOTES FOUND MONUMENT (AS DESCRIBED)
- - DENOTES PIPELINE

LEGAL DESCRIPTION

A STRIP OF LAND BEING 50 FEET WIDE, 266.6 FEET OR 0.050 MILES IN LENGTH AND BEING 25.0 FEET RIGHT AND 25.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE.



NOTE: The above platted centerline was created using data as provided by client and/or client's representative and has not been staked on the ground or in the field.



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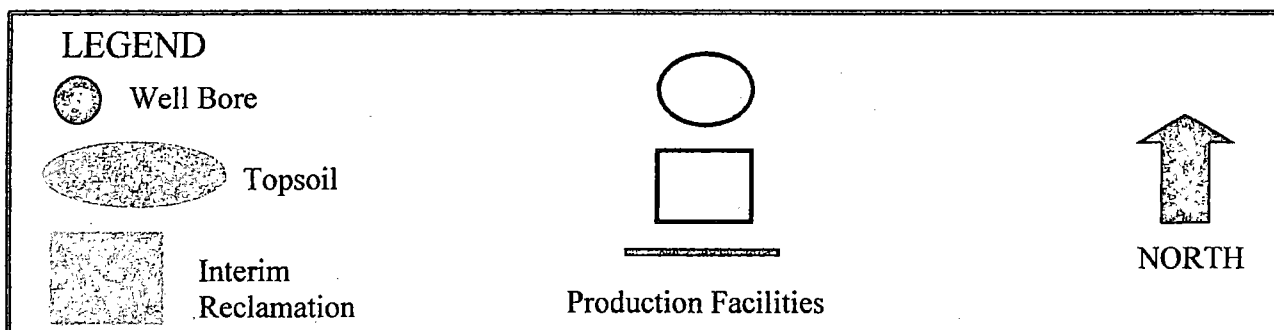
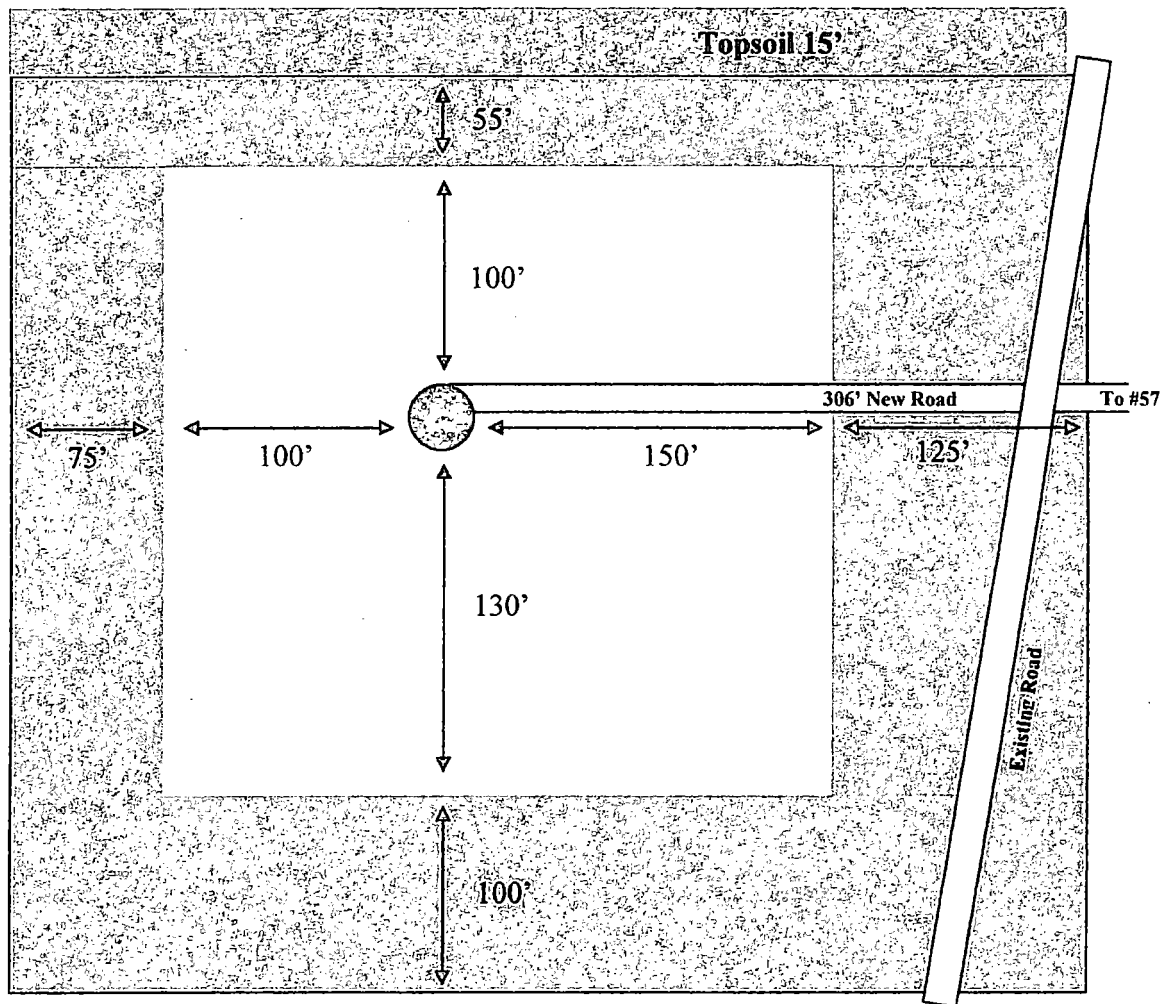
LEGACY RESERVES OPERATING LP.

PIPELINE EASEMENT LOCATED ON  
BLM LAND IN SECTION 12  
TOWNSHIP 20 SOUTH, RANGE 34 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: N/A	Sheet 1 of 2 Sheets
W.O. Number: 2015-0535	Drawn By: SC
Date: 9-15-2015	2015-0535-A5.DWG
Scale: 1" = 1000'	

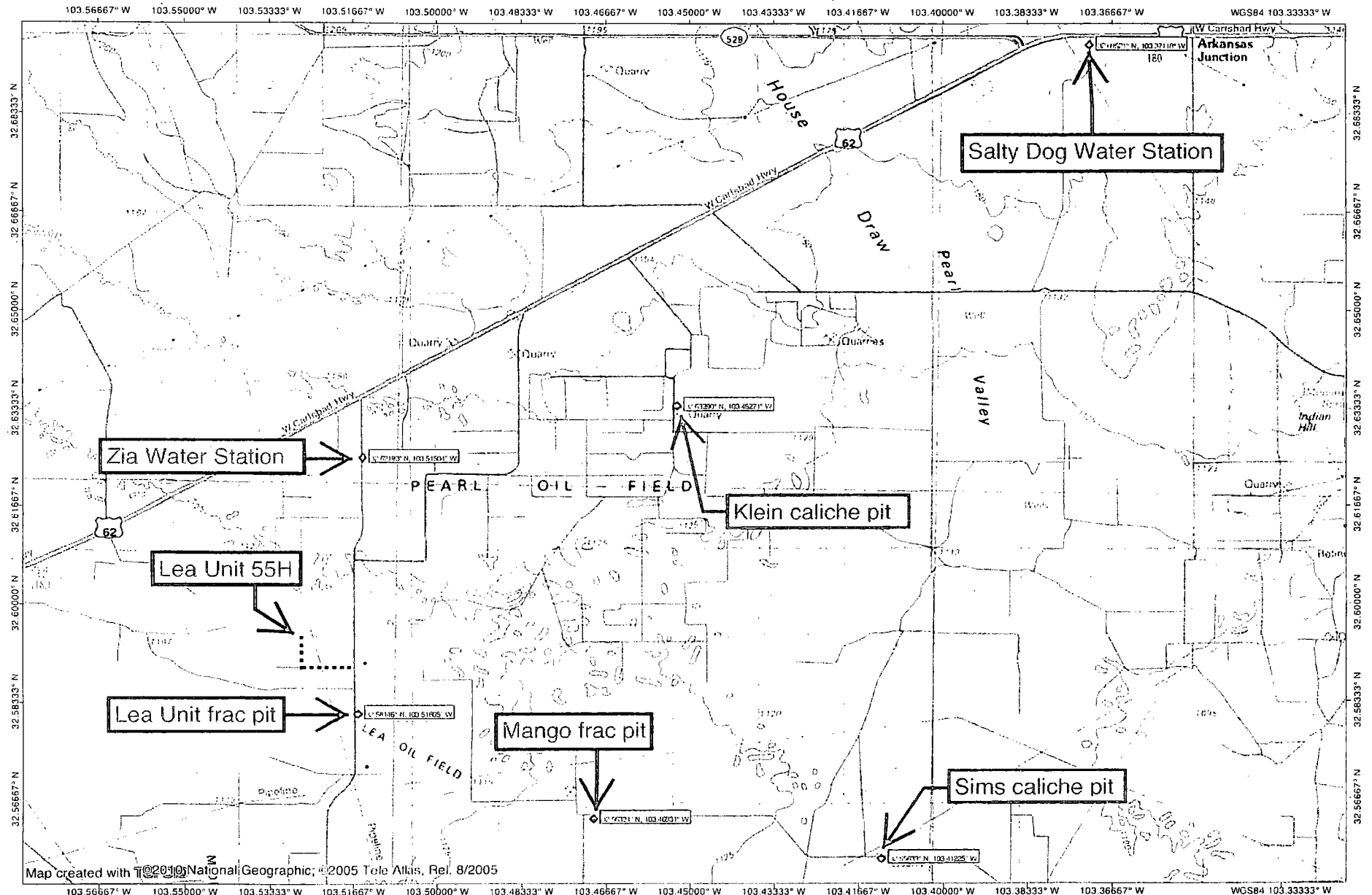
EXHIBIT C

Interim Reclamation & Production Facilities  
LEA UNIT 55H  
V-DOOR EAST

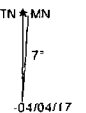
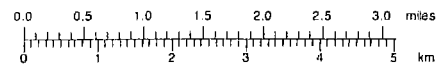




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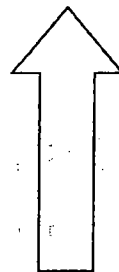
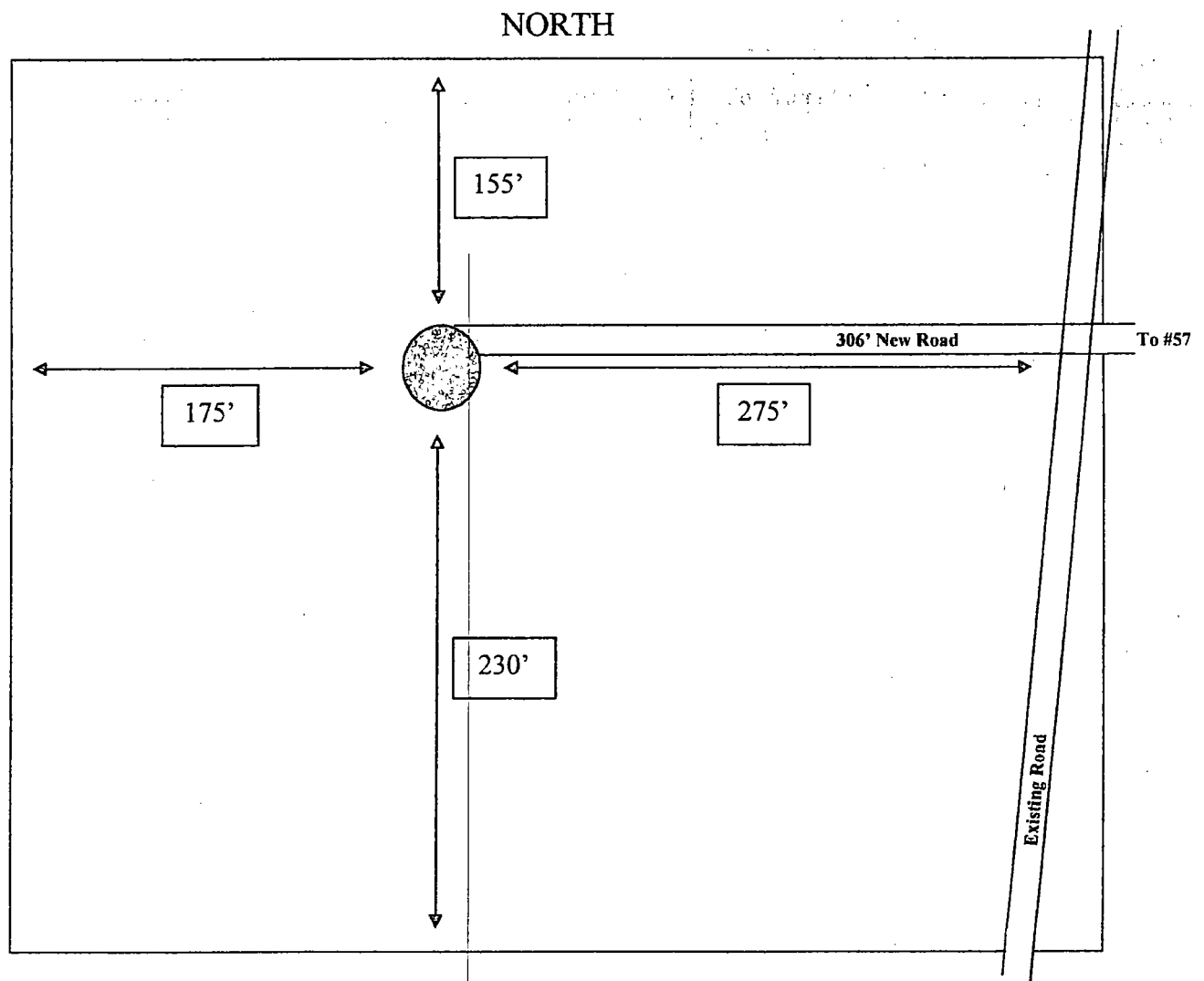
NATIONAL  
GEOGRAPHIC



04/04/17

EXHIBIT D

Rig Plat Only  
LEA UNIT 55H  
V-DOOR EAST



N  
O  
R  
T  
H





U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

**PWD Data Report**

09/11/2017

## Section 1 - General

Would you like to address long-term produced water disposal? NO

## Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

### **Section 3 - Unlined Pits**

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

### **Section 4 - Injection**

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

**Injection well type:**

**Injection well number:**

**Injection well name:**

**Assigned injection well API number?**

**Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection attachment:**

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

## **Section 5 - Surface Discharge**

**Would you like to utilize Surface Discharge PWD options? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

## **Section 6 - Other**

**Would you like to utilize Other PWD options? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Bond Info Data Report

09/11/2017

### Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001015

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: