



HOBBS OCD

JUL 17 2012

SURFACE USE PLAN OF OPERATIONS

LUSK 34 FEDERAL #2H Lease #: NMNM-0001135

SHL: 330' FNL & 1715' FWL UL: C SEC 34 T19S R32E BHL: 330' FSL & 1980' FWL UL: N SEC: 19 T19S R30E
Lea County, NM

RECEIVED

EXISTING ROADS

A. Proposed Well Site Location:

- a. Well site & elevation plat for the proposed well are reflected on the well site layout (form C-102). Well staked by Basin Surveys.

B. Existing Roads

- a. From Junction of Lusk & Maljamar, go South on Maljamar for 1.7 miles to lease road, on lease road go East 1.1 miles to lease road, on lease road go South turning East 1.5 miles to lease road, on lease road go North 0.5 miles to proposed location. (Directions from Hwy 243: From intersection of Hwy 180/62 & Hwy #243 go North on #243 approx 4 miles, turn Right & go North on CR #126A for approx 3.75 miles, turn Right on lease road & go East 1.1 miles to lease road, on lease road go South turning East 1.5 miles to lease road, on lease road go North 0.5 miles to proposed location).

C. Route Location

- a. No new lease road is expected to be constructed. See E(a)

D. Existing Road Maintenance or Improvement Plan

- a. EXHIBIT 1 is a portion of a topo map showing the well & roads in the vicinity of the proposed location. The proposed well site (shown in Green) & access route (shown in BLUE) to the location are indicated on EXHIBIT 1. Right of way using this proposed route will be requested if necessary.
- b. Routing grading & maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease. Roads will be maintained according to specifications in "EXISTING ROADS Section E (a)" of this Surface Use Plan.

E. Width, Max Grade, Turnout Ditches, Culverts, Cattle Guards, & Surface Equipment

- a. All lease roads will be graded in compliance with BLM standards. All new & reconstructed roads will have a width & "crown design" (i.e. The max width of the driving surface will be 14'. The road will be crowned & ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled & compacted caliche.) If required, culverts and cattle guards will be set per BLM Specs.

LOCATION OF EXISTING WELLS

- A. "EXHIBIT 2" indicates existing wells within a one mile radius of the proposed location.

LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. In the event the well is found productive, the Lusk 34 Federal Battery will be utilized and necessary production equipment will be installed at the well site. "SEE EXHIBIT 6"

B. New Facilities in the Event of Production

In the event well is productive, APACHE will install new 3" NUP1 rated 300psi up to 140 deg surface flow line, approx 4700' in length, to the Lusk 34 Federal #1H location following existing lease roads. (Flow line pipe rated @ 300psi, WP: ~80psi, kill switches & chokes will be installed to prevent exceeding 125psi for above ground pipelines) "SEE EXHIBIT 1A (shown in Red)". If electricity is needed, Apache will install approx 300' of new electrical line to an existing power line. "SEE EXHIBIT 1A" (shown in yellow).

C. Rehabilitation of Disturbed Areas Unnecessary for Production

Following the construction, those access areas required for continued production will be graded to provide drainage and minimize erosion. The areas unnecessary for use will be graded to blend in with the surrounding topography "SEE PLANS FOR RESTORATION OF THE SURFACE"

JUL 19 2012

LOCATION AND TYPE OF WATER SUPPLY

- A. All water (fresh or otherwise) needed for the drilling and completion of this well will be purchased from a commercial source and trucked to the location via existing and/or proposed access roads. No water source wells will be drilled and no surface water will be utilized.

CONSTRUCTION MATERIALS

- A. Materials

On-site caliche will be used for any required access road and/or well site pad. If necessary, caliche will be hauled from a BLM approved pit. No surface materials will be disturbed except those necessary for actual grading and construction of the drill site and access road.

METHODS FOR HANDLING WASTE DISPOSAL

- A. Cuttings

Cuttings will be contained in roll off bins and disposed of hauled to a state approved disposal facility.

- B. Drilling Fluids

Drilling fluids will be contained in steel pits, frac tanks and disposed at licensed disposal sites and/or will be cleaned and reused.

- C. Produced Fluids

Water production will be contained in steel pits. Fluids may be cleaned and reused and/or disposed at a state approved facility. Hydrocarbon fluid or other fluids that may be produced during testing will be retained in test tanks until sold and hauled from site.

- D. Salts

Salts remaining after completion will be picked up by supplier, including broken sacks.

- E. Sewage

Current laws and regulations pertaining to the disposal of human waste will be complied with. A Port-a-John will be provided for the crews. This will be properly maintained during the drilling operations and removed upon completion of the well. Port-a-John will be cleaned out periodically.

- F. Garbage

Receptacles for garbage disposal during the drilling of this well will be provided and equipped to prevent scattering by wind, animals, etc. This waste will be hauled to an approved landfill site.

- G. Cleanup of Well Site

Upon release of the drilling rig, the surface of the drilling pad will be graded to accommodate a completion rig if electric log analysis indicates potential productive zones. Reasonable cleanup will be performed prior to the final restoration of the site.

ANCILLARY FACILITIES

- A. Upon completion, and/or testing of this well, rental tank facilities will be utilized until permanent storage is established. No camps, airstrips or staging are anticipated to be constructed.

WELLSITE LAYOUT

- A. Rig Orientation and Layout

"EXHIBIT 5 " shows the dimensions of the well pad, closed loop system and the location of the major rig components. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary.

- B. Closed Loop System

A Closed Loop System will be used. Cuttings will be stored in steel roll off bins until they are hauled to a state approved disposal facility. A C-144 has been submitted to the appropriate OCD district office for approval.
"SEE EXHIBIT 4"

- C. Location of Access Road

"SEE EXHIBIT 1 & John West Surveying well site pad location plat "

PLANS FOR SURFACE RECLAMATION

- A. Reserve Pit Cleanup
Not applicable. Closed Loop System will be used.
- B. Restoration Plans (Production Developed) *"SEE EXHIBIT 6 "*
Those areas not required for production will be graded & recontoured to match surrounding topography and surfacing material will be removed. Topsoil from the soil pile will be loaded over the disturbed area to the extent possible and will be seeded. The portion of the site required for production will be graded to minimize erosion and provide access during inclement conditions. This may need to be modified in certain circumstances to prevent inundation of the locations' pad and surface facilities. Due to the topography of the area, no problems are anticipated and no erosion or other detrimental effects are expected as a result of this operation. Following depletion and abandonment of the site, restoration procedures will be those that follow under *"ITEM C"* of *"PLANS FOR SURFACE RECLAMATION"*.
- C. Restoration Plans (No Production Developed)
With no production developed, the entire surface disturbed by construction of the well site will be restored as closely as possible to its pre-operation appearance, including re-vegetation. Surfacing material will be removed and the site will be recontoured to match surrounding topography with provisions made to minimize erosion. The topsoil, as available, shall be placed in a uniform layer and seeded according to the Bureau of Land Management's stipulations. Due to the topography of the area, no problems are anticipated and no erosion or other detrimental effects are expected as a result of this operation.
- D. Rehabilitation's Timetable
Upon completion of drilling operations, the initial cleanup of the site will be performed as soon as weather and site conditions allow economic execution of the work.

SURFACE OWNERSHIP

- A. Surface Ownership of drill site & access routes:
United States Department of the Interior
c/o Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220

OTHER INFORMATION

- A. Terrain, Soil, Vegetation, Wildlife, Surface Use
Location is high in desert vegetation consisting of mesquite, cat claw, grease wood, sacatone & various other desert shrubs & forbes on slight sandy incline. No wildlife observed but likely that deer, rabbits, coyotes & rodents traverse the area, which are all typical of the semi-arid desert land.
- B. Surface Water
There are no ponds, lakes, streams or rivers within several miles of the proposed location.
- C. Water Wells
No known water wells within 1-1/2 miles of the proposed location.
- D. Residences and Buildings
No dwellings within the immediate vicinity of the proposed location.
- E. Historical Sites
None observed.
- F. Archeological Resources
The site was archeologically surveyed on October 13, 2011 by Boone Archeological Services LLC. (NMCRI: 122112). Any location or construction conflicts will be resolved before construction begins.
- G. Onsite
Onsite by Trisha Badbear, BLM Specialist.
- H. Well Signs
Well signs will be in compliance per State requirements and specifications.
- I. Drilling Contractor: Pending

OPERATOR'S FIELD REPRESENTATIVE

(Field personnel responsible for compliance with development plan for surface use)

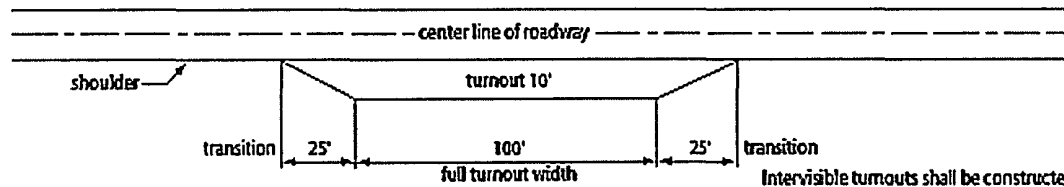
DRILLING

Danny Laman
Drilling Superintendent
303 Veterans Airpark Ln #3000
Midland, TX 79705
432-818-1022 - office
432-634-0288 – cell

PRODUCTION

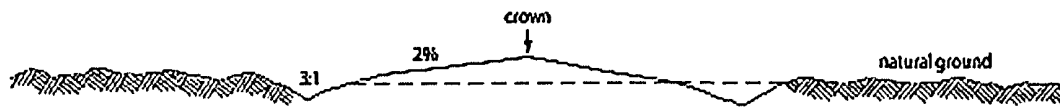
Travis Carnes
Sr. Production Foreman
2350 W. Marland Blvd
Hobbs, NM 88240
575-393-2144 – w
432-425-2962 – c

Cross Sections and Plans for Typical Road Sections

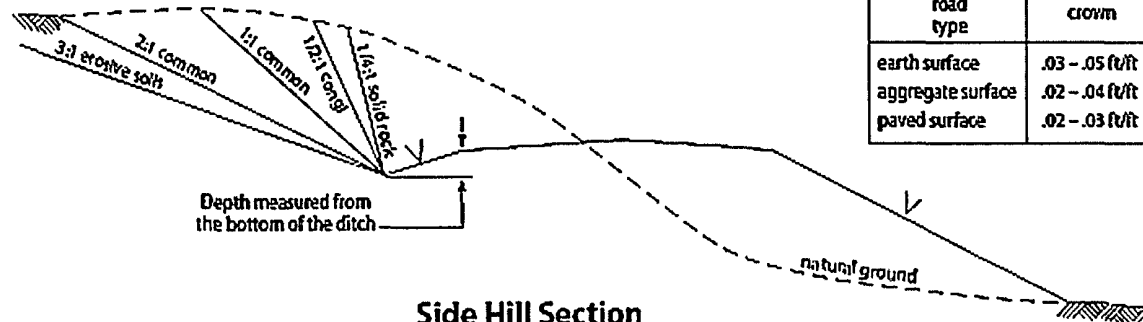


Typical Turnout Plan

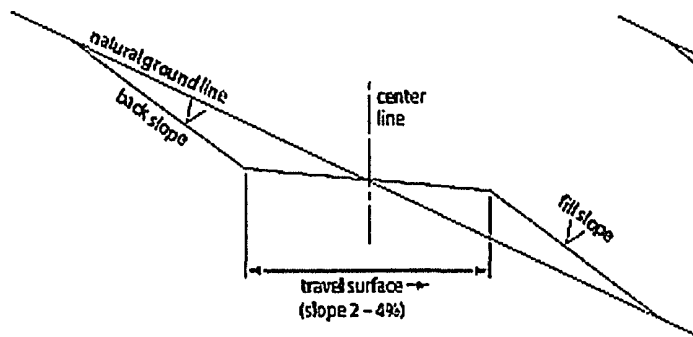
Intervisible turnouts shall be constructed on all single lane roads on all blind curves with additional turnouts as needed to keep spacing below 1000 feet.



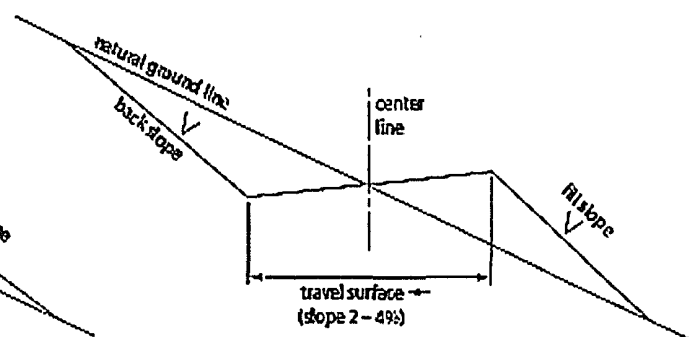
Level Ground Section



Side Hill Section



Typical Outsloped Section



Typical Insloped Section

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
620 E. GREENE STREET
CARLSBAD, NM 88220**

OPERATOR CERTIFICATION

I HEARBY CERTIFY THAT I, OR SOMEONE UNDER MY DIRECT SUPERVISION, HAVE INSPECTED THE DRILL SITE AND ACCESS ROUTE PROPOSED HEREIN; THAT I AM FAMILIAR WITH THE CONDITIONS WHICH CURRENTLY EXIST; THAT I HAVE FULL KNOWLEDGE OF STATE AND FEDERAL laws applicable to this operation; that the statements made in the APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this _____ day of MARCH, 2012

Well: LUSK 34 FEDERAL #2H

Operator Name: APACHE CORPORATION

Signature:  Printed Name: JEREMY WARD

Title: Drilling Engineer Date: 3-7-12

Email (optional): jeremy.ward@apachecorp.com

Street or Box: 303 Veterans Airpark Ln., Ste. 3000

City, State, Zip Code: Midland, TX 79705

Telephone: 432-818-1024

Field Representative (if not above signatory): _____

Address (if different from above): _____

Telephone (if different from above): _____

Email (optional): _____

Agents not directly employed by the operator must submit a letter from the operator authorizing that the agent to act or file this application on their behalf.



Search Documents

Reference Center

Support

Shopping Cart

[Search Documents](#) [Results List](#) [Survey Details](#)

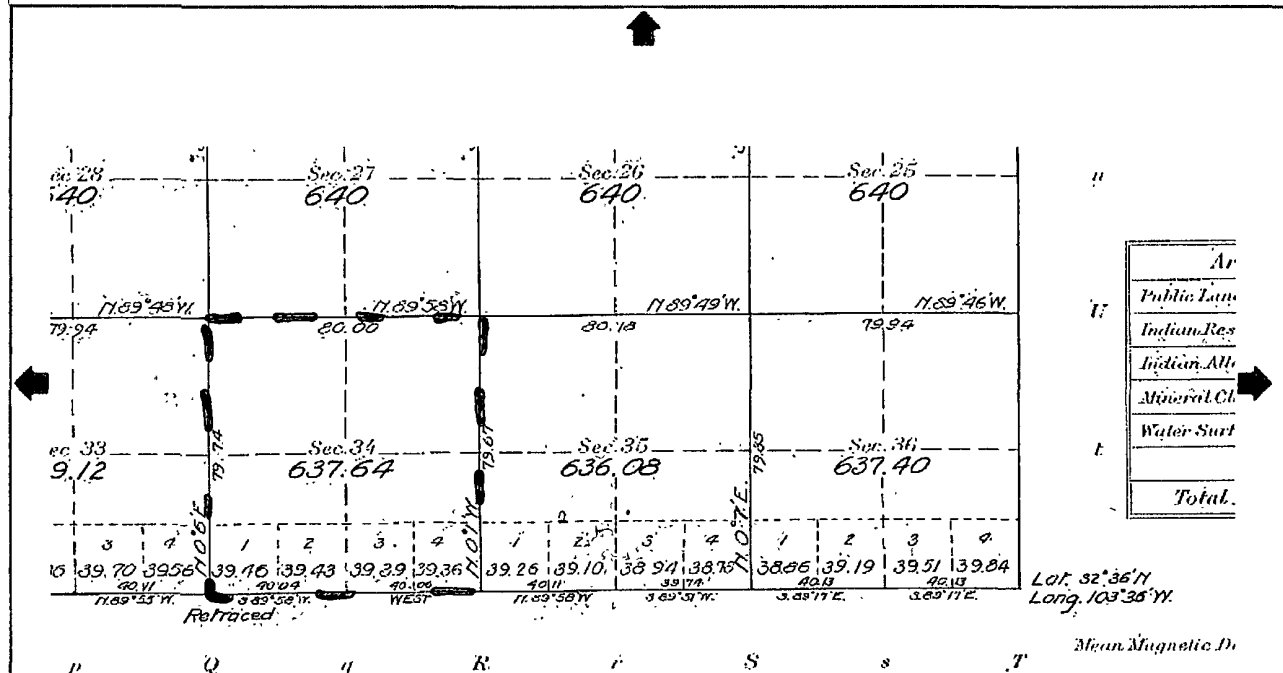
DM ID: 123652 Survey Type: Original Survey State: New Mexico

Survey Plat Details

Plat Image

Related Documents

Sheet: 1 Description:—



Ar
Public Land
Indian Res
Indian All
Mineral Cl
Water Surt
Total

Lat. 32°36'N
Long. 103°35'W

Mean Magnetic D.

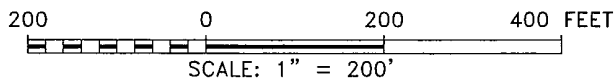
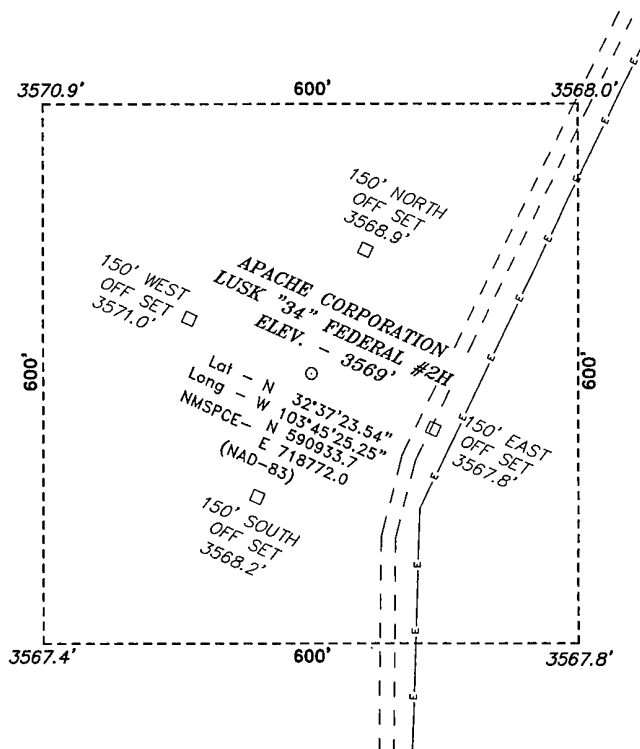
of Surveys	When Surveyed	
	Begun	Completed
94	Dec. 15, 1912	Dec. 19, 1912
95	Dec. 15, 1912	Dec. 19, 1912
96	Dec. 15, 1912	Dec. 19, 1912
97	Dec. 15, 1912	Dec. 19, 1912
98	Dec. 15, 1912	Dec. 19, 1912
99	Dec. 15, 1912	Dec. 19, 1912
100	Dec. 15, 1912	Dec. 19, 1912

The at map of Township No. 19 South, Range No. 32 East, Meridian in New Mexico, is strictly conformable to the field notes in this office, which have been examined and approved.

Basic Viewer

Note: For help viewing and printing images, check out our [Viewing And Printing Images Guide](#).

SECTION 15, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF LUSK AND MALJAMAR, GO SOUTH ON MALJAMAR FOR 1.7 MILES TO LEASE ROAD, ON LEASE ROAD GO EAST 1.1 MILES TO LEASE ROAD, ON LEASE ROAD GO SOUTH TURNING EAST 1.5 MILES TURNING NORTH 0.5 MILES TO PROPOSED LEASE ROAD.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 24237 Drawn By: J. SMALL

Date: 03-09-2011 Disk: JMS 24237

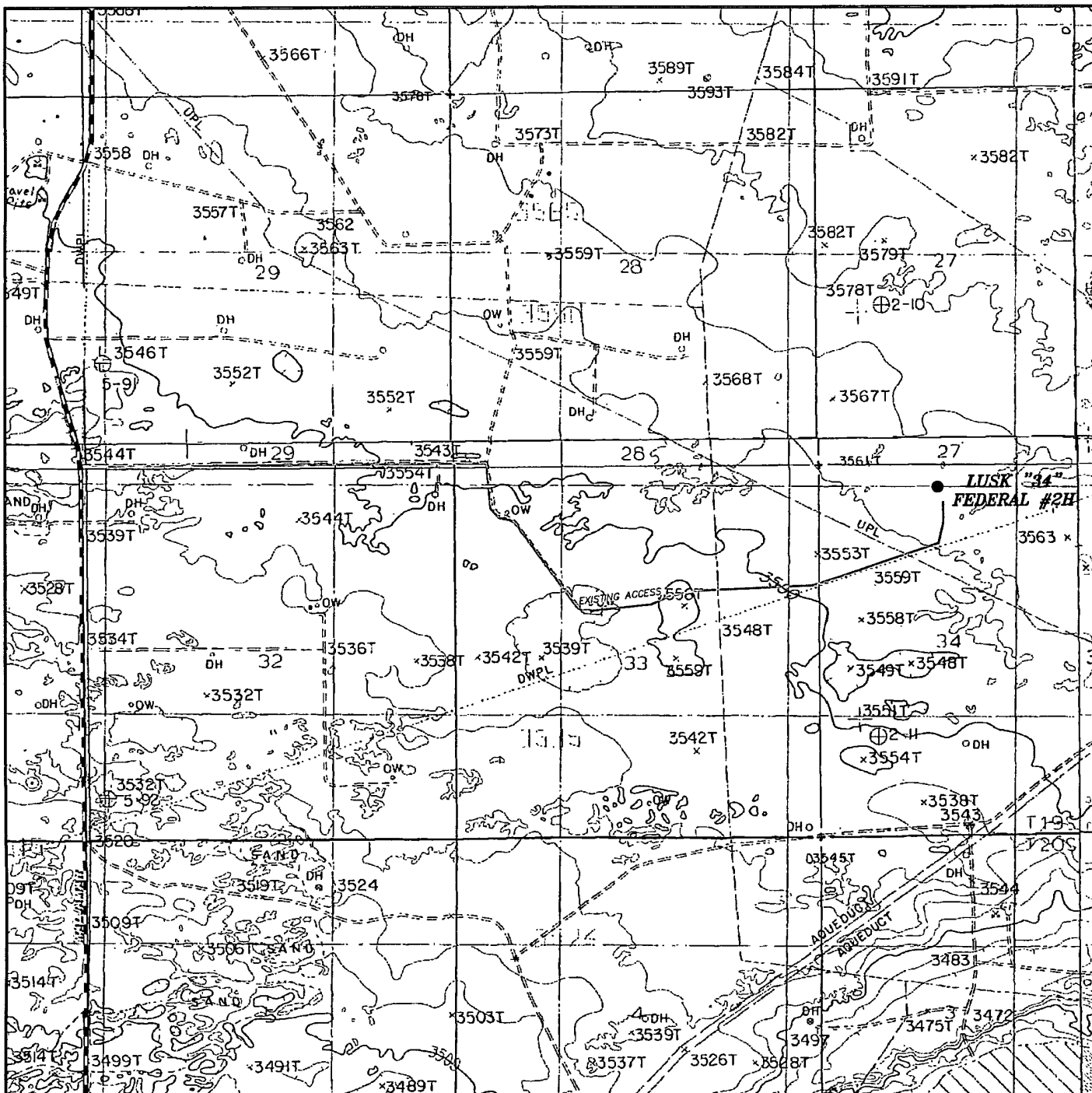
APACHE CORPORATION

REF: LUSK "34" FEDERAL #2H / WELL PAD TOPO

THE LUSK "34" FEDERAL #2H LOCATED 330'

FROM THE NORTH LINE AND 1715' FROM THE WEST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 03-07-2011 Sheet 1 of 1 Sheets



LUSK "34" FEDERAL #2H

Located 330' FNL and 1715' FWL

Section 34, Township 19 South, Range 32 East,
N.M.P.M., Lea County, New Mexico.

basin
surveys

focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

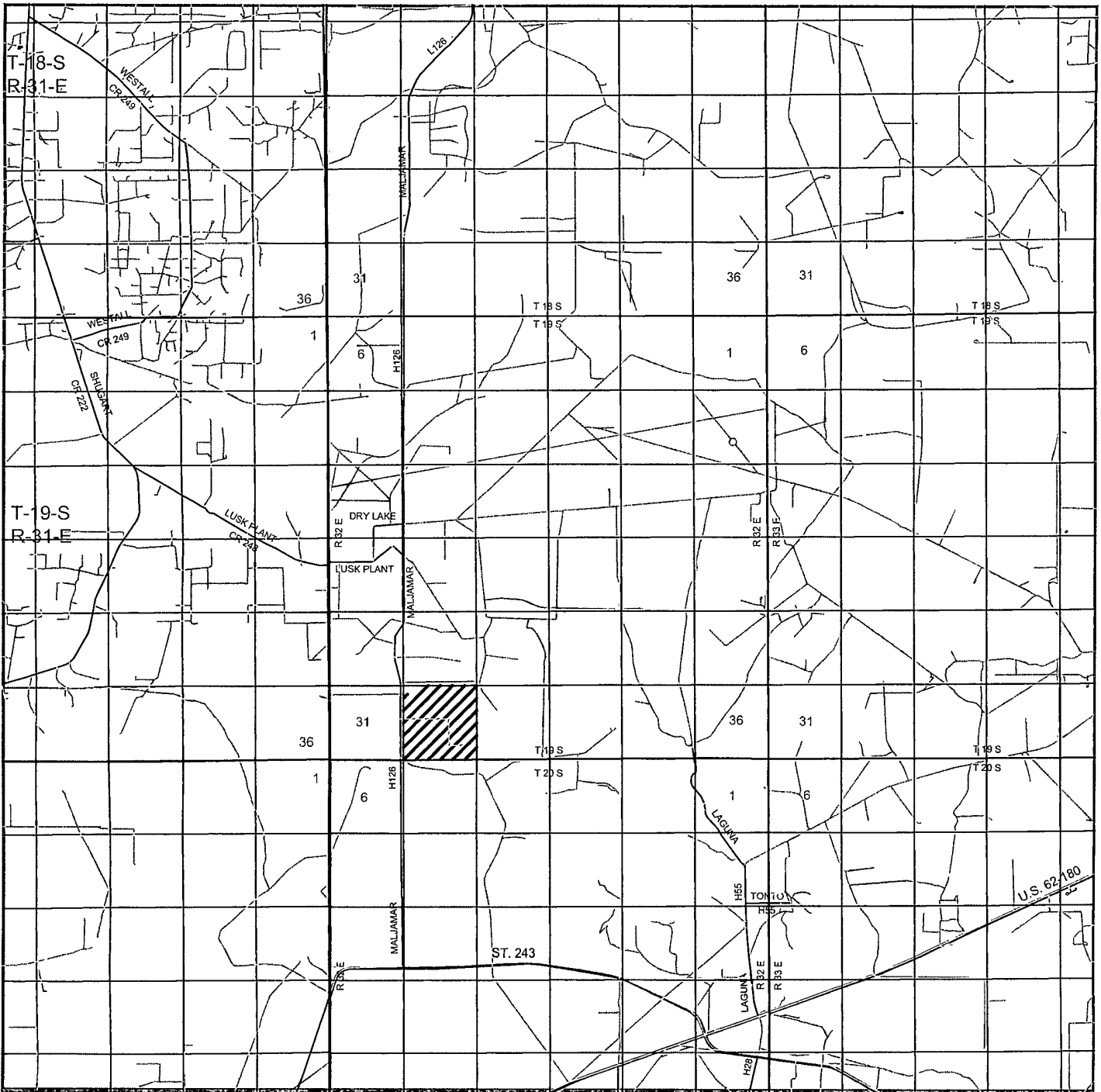
W.O. Number: JMS 24237

Survey Date: 03-07-2011

Scale: 1" = 2000'

Date: 03-09-2011

APACHE
CORPORATION



LUSK "34" FEDERAL #2H
 Located 330' FNL and 1715' FWL
 Section 34, Township 19 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.

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 (575) 392-2206 - Fax
 basinsurveys.com

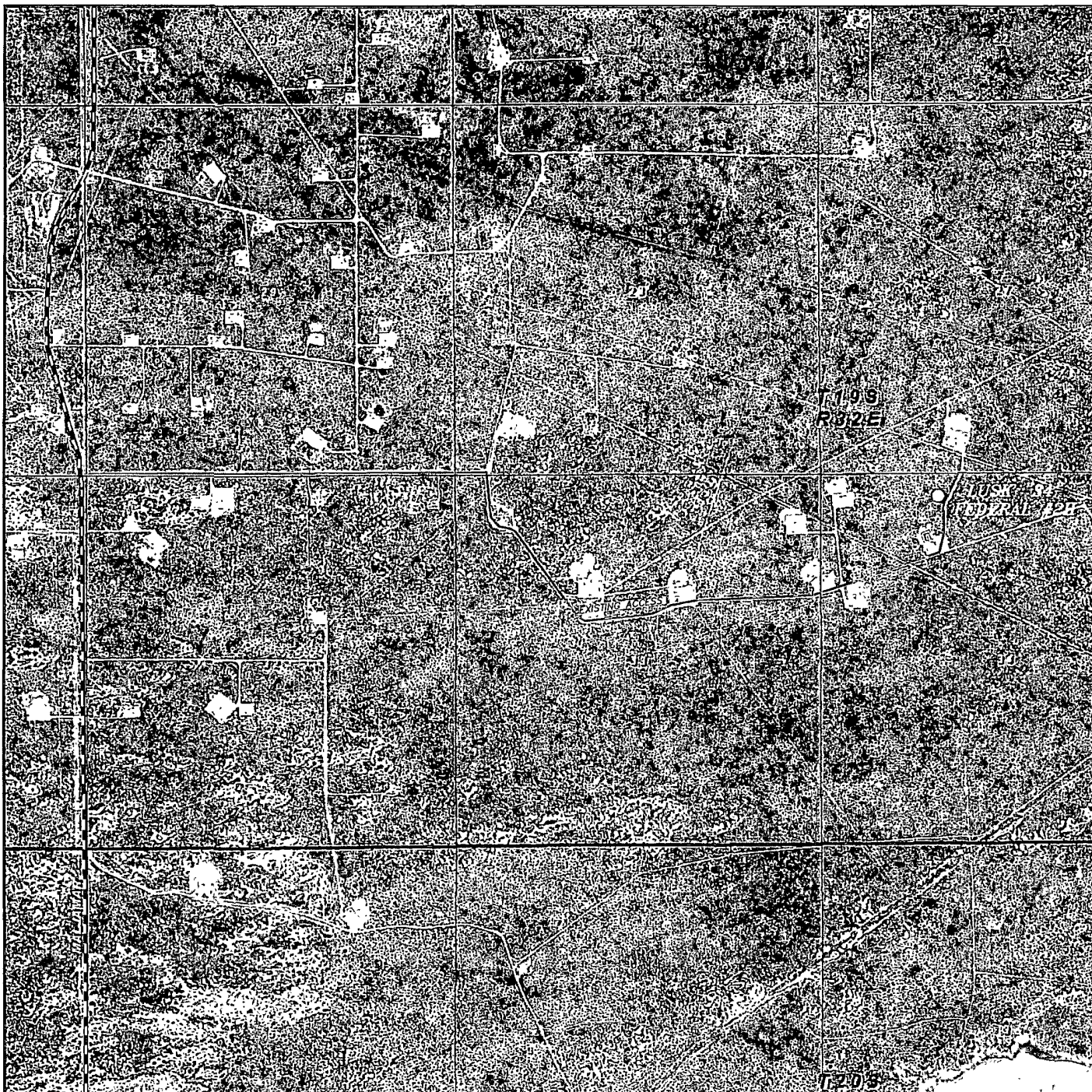
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Survey Date: 03-07-2011

Scale: 1" = 2 Miles

Date: 03-09-2011

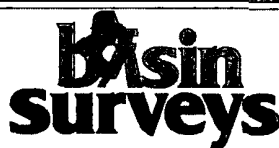
APACHE
CORPORATION



LUSK "34" FEDERAL #2H

Located 330' FNL and 1715' FWL

Section 34, Township 19 South, Range 32 East,
N.M.P.M., Lea County, New Mexico.



P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: JMS 24237

Scale: 1" = 2000'

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND

APACHE
CORPORATION

Exhibit #2

APACHE CORPORATION

LUSK 34 FEDERAL #2H, LEA CO.

UL:C Sec 34 T19S R32E

330' FNL & 1715' FWL

1 MILE RADIUS

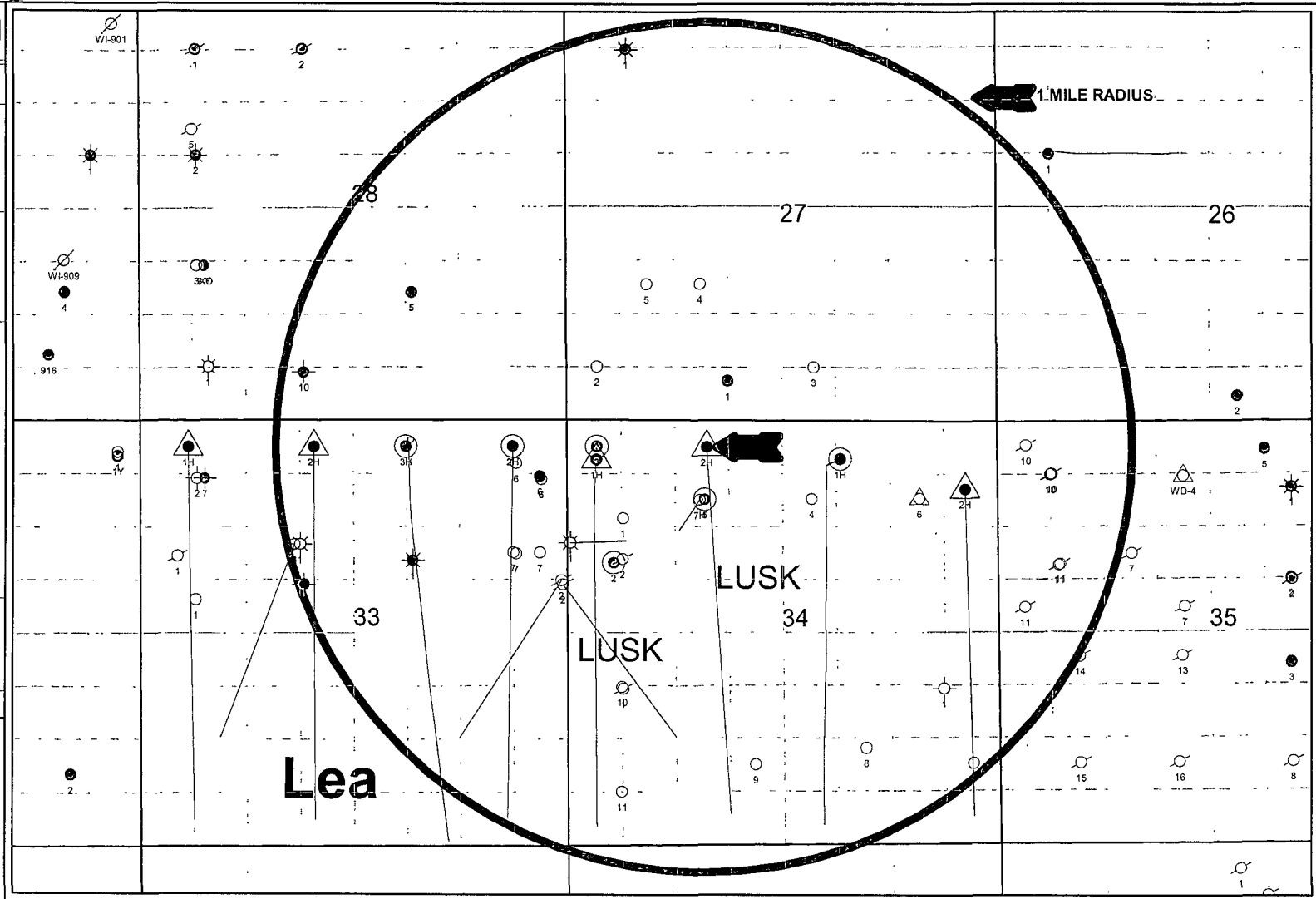
POSTED WELL DATA

Well Number

- WELL SYMBOLS**
- Abandoned Well
 - Dry Hole
 - Gas Well
 - Injection Well
 - Location
 - Proposed Drilling Location
 - Oil & Gas Well
 - Oil Well
 - Plugged and Abandoned
 - P&A Oil
 - Active Producer
 - Service Well

0 2,500
FEET

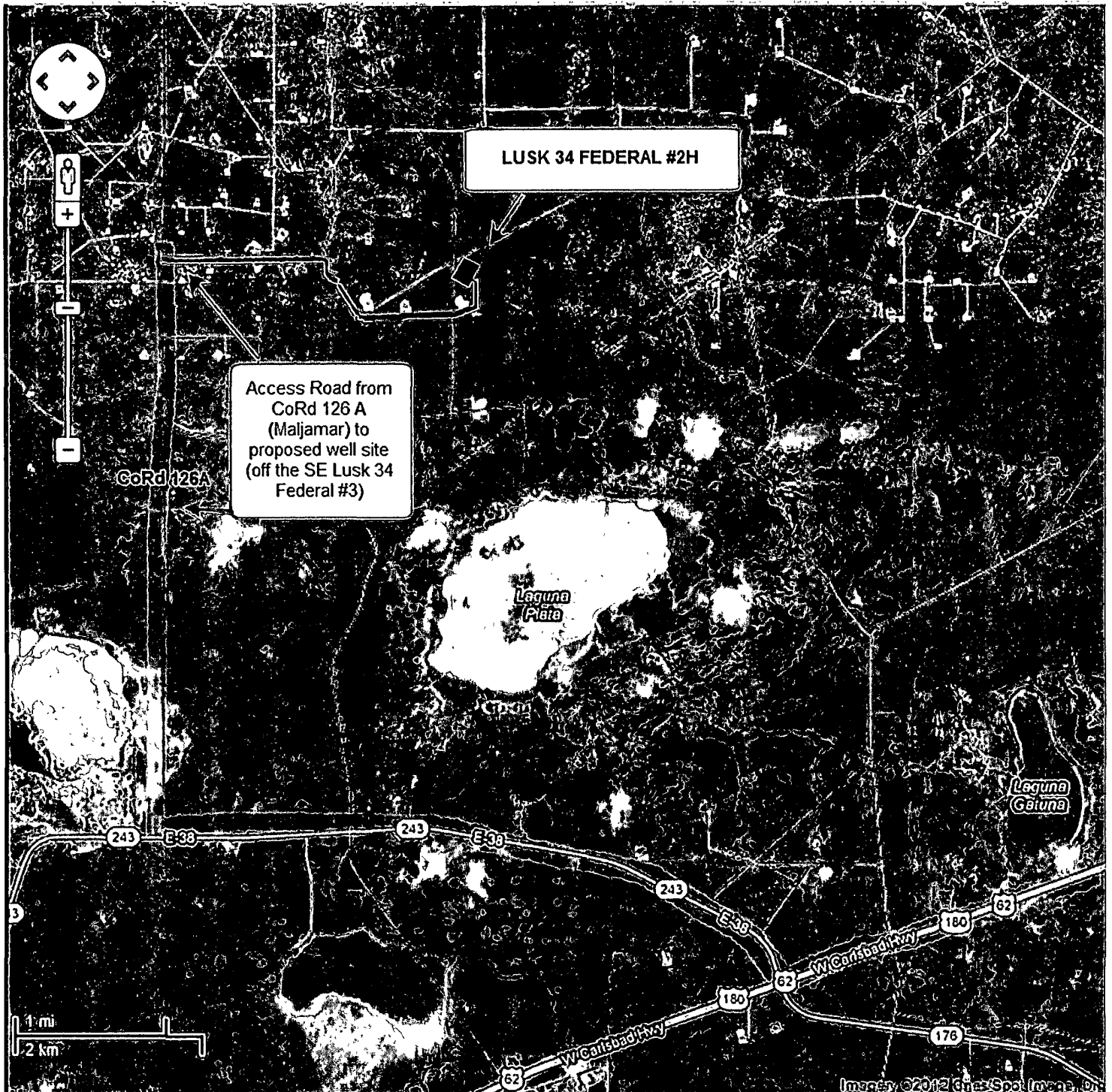
March 6, 2012



LUSK 34 FEDERAL #1H

ACCESS ROAD PLAT

EXHIBIT 1



LUSK 34 FEDERAL #1H & #2H

ELECTRICAL & FLOW LINE PLAT

EXHIBIT 1A

