

30-825-40797

# SURFACE USE PLAN OF OPERATIONS

LUSK 34 FEDERAL #1H Lease #: NMNM-0001135

SHL: 490' FNL & 360' FWL UL: D SEC 34 T19S R32E BHL: 330' FSL & 660' FWL UL: M SEC: 19 T19S R30E Lea County, NM

#### **EXISTING ROADS**

- A. Proposed Well Site Location:
  - 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

From Juntion 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 1.2 miles to lease road, on lease road go North 0.2 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 rod go South turning East 1.2 miles to lease road, on lease road go North 0.2 miles to proposed location).

#### C. Route Location

- No new lease road is expected to be constructed. See E(a)
- D. Existing Road Maintenance or Improvement Plan
  - 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.
  - 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
  - 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. A new tank battery will be constructed. "SEE EXHIBIT 6"
- B. New Facilities in the Event of Production
  - In the event well is productive, APACHE will construct a new tank battery on the East side of drill pad in compliance with BLM standards & specs. No flow line will run off of the location. "SEE EXHIBIT 6" 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"

#### **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 & 13a sin 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 to blend with the surrounding topography. 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. The site will be contoured to blend with the 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 Stated 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. Per conversation with Carlsbad BLM Martin Stein, the proposed project is already covered under existing Arch surveys (BLM # 05-447; 92-278) and therefore will require no additional Arch Survey.

G Onsite

Onsite by Trisha Badbear, BLM Specialist.

H. Well Signs

Well signs will be incompliance per State requirements and specifications.

I. Drilling Contractor: Pending

# **OPERATOR'S FIELD REPRESENTATIVE**

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

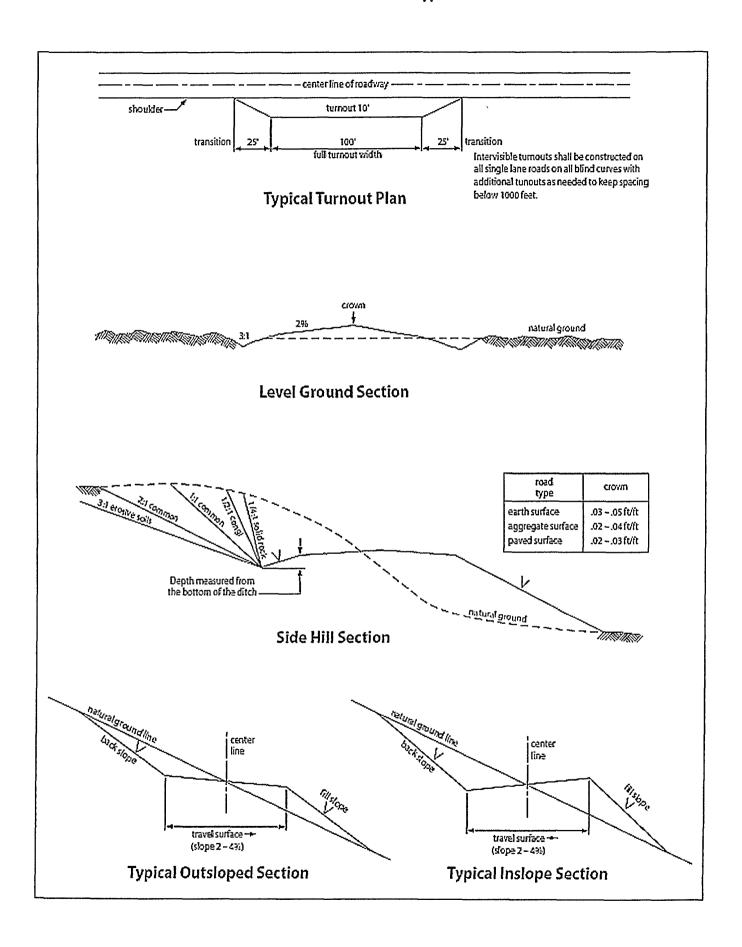
# DRILLING

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**



# 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	urch 2012				
Well: LUSK 34 FEDERAL #1H						
Operator Name:	APACHE CORPOR	ATION				
Signature:	my Ward	Printed Name: <u>JEREMY WARD</u>				
Title: <u>Drilling Engineer</u>		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 79	705				
Telephone: 432-818-1024						
Field Representative (if not above signatory):						
Address (if different fro	om 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.

ĩ SECTION 34, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M., NEW MEXICO. LEA COUNTY, 3563.5 600 3566.5 150' NORTH \_OFF SET-3562.9' SE LUSK ☐ 34 FED #3 150' EAST OFF SET 3561 4' 150' WEST OFF SET 0 3563.2  $\Box$ 150' SOUTH OFF SET 11 35608' 11 11 71 3559.9 600 3563.9° 11 11 11 11 APACHE CORPORATION LUSK "34" FEDERAL #1H ELEV. - 3561' 11 Lat - N 32°37'21.96" Long - W 103°45'41.09" NMSPCE- N 590767.2 E 717417.9 (NAD-83) 200 200 400 FEET SCALE: 1" = 200' Directions to Location. APACHE CORPORATION LUSK "34" FEDERAL #1H / WELL PAD TOPO

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 1.2 MILES TO LEASE ROAD, ON LEASE ROAD GO NORTH 0.2 MILES TO PROPOSED LOCATION.

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

W.O. Number: 24236 J. SMALL Drawn By: 03-09-2011 Disk: JMS

THE LUSK "34" FEDERAL #1H LOCATED 490'

FROM THE NORTH LINE AND 360' FROM THE WEST LINE OF SECTION 34, TOWNSHIP 19 SOUTH, RANGE 32 EAST,

N.M.P.M., LEA COUNTY, NEW MEXICO.

Sheets Survey Date: 03-07-2011 Sheet

500 3566T 3589T (35841 3558 рн. ×3584T 3557T 582T DH 3546T *(*3559T 3552T 3568T 0 3552T < ×3567 544T ODH 20 3543 27 LUSI FEDERAL #CH 3539T 1-7 3563 × 3559T ×3558™ 43536T . 3548T 3**534**T 如物 32 ×35338|T 3549T×3548T ĎН ×3532T 355 (H)2~H 3542T Na.la ×3554T FAND HO 3519TE Доон 23539Т 3503I 3 TEE 63 PEE 3526T

LUSK "34" FEDERAL #1H Located 490' FNL and 360' 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 24236			
	Survey Date: 03-07-2011	3		
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	Date: 03-09-2011			

APACHE CORPORATION T-118-S T-19-S 36 ST. 243

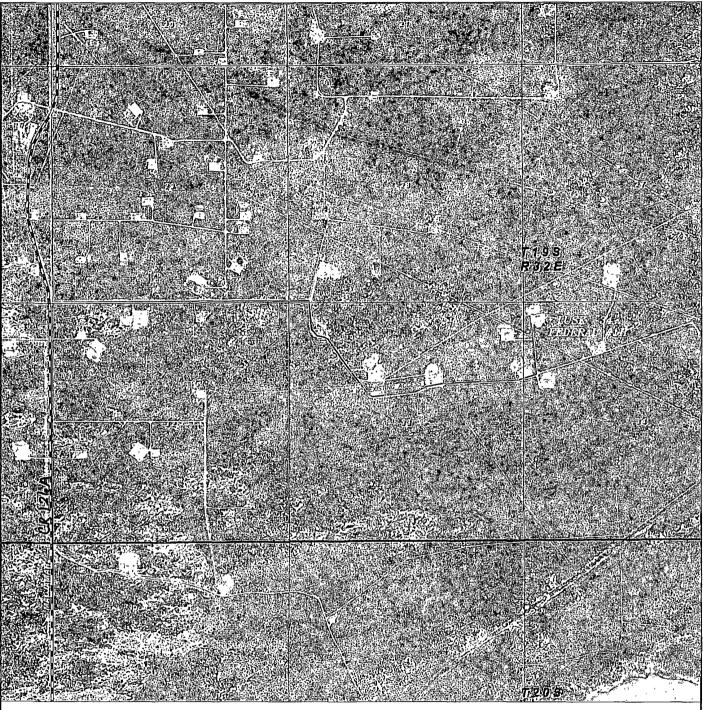
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Date: 03-09-	2011		

APACHE CORPORATION



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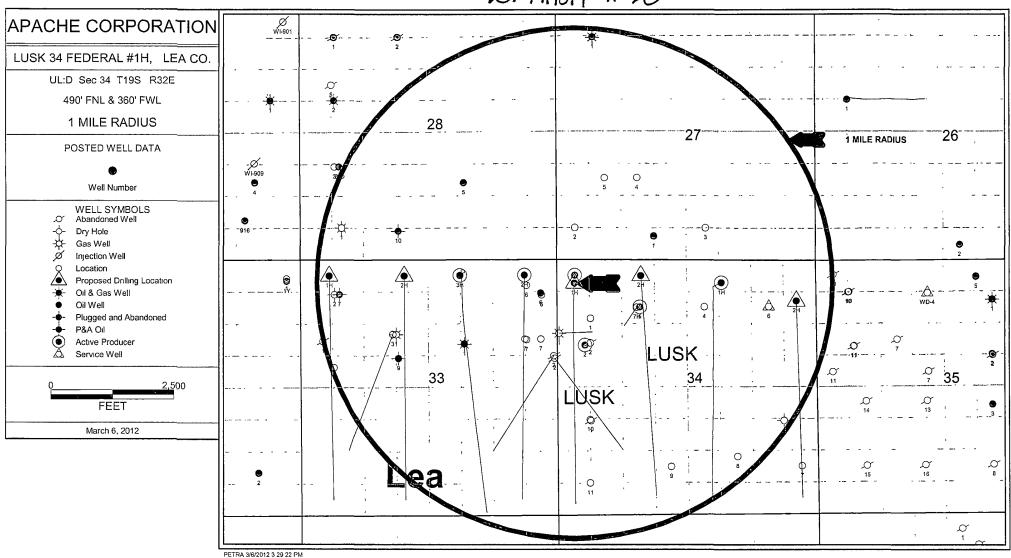
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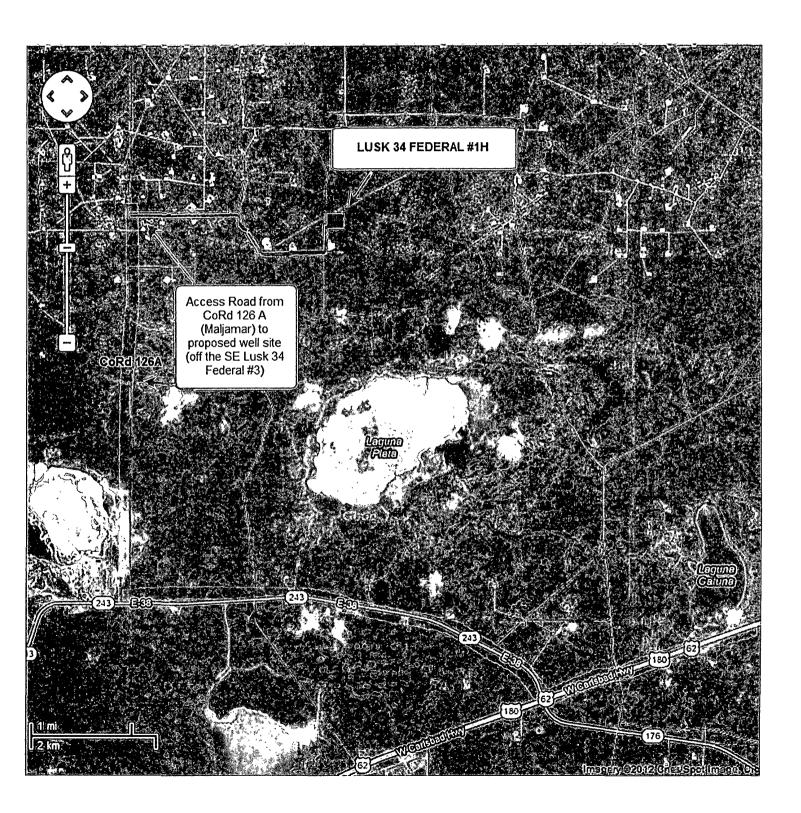
YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND



Exhibit #2



# LUSK 34 FEDERAL #1H ACCESS ROAD PLAT EXHIBIT 1



# LUSK 34 FEDERAL #1H & #2H ELECTRICAL & FLOW LINE PLAT EXHIBIT 1A

