



## SURFACE USE PLAN OF OPERATIONS

HAWK A #39 Lease #: NMLC-031741A  
415' FNL & 2075' FEL UL: B SEC: 8 T21S R37E  
Lea County, NM

HOBBS OCD

MAY 12 2015

RECEIVED

### EXISTING ROADS

- A. Proposed Well Site Location:
  - a. The well site & elevation plat for the proposed well are reflected on the well site layout (form C-102). Well staked by JohnWest Surveying Company.
- B. Existing Roads
  - a. From the intersection of St Hwy 207 & CR E-49 (Hill Rd), go North on Hill Rd approx 2 miles, turn Right, go East on lease road approx 0.1 mile, this location stake is South approx 250'.
- C. Route Location
  - a. Approx 142' of new road is expected to be constructed. The existing lease road will be used to the extent possible. If a lease/access road needs to be constructed, all lease roads will be graded in compliance with BLM standards. See E (a).
- D. Existing Road Maintenance or Improvement Plan
  - a. *The Location Verification Map* is a portion of a topo map showing the well & roads in the vicinity of the proposed location. The proposed well site & access route to the location are indicated in the *Location Verification Map*. 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. Existing production facilities are located at the Hawk A 37 Federal Battery location.
- B. New Facilities in the Event of Production

In the event well is productive, APACHE will install a new 3" NUP 140 deg surface flow line, approx 4569.6' in length, to tie into the Hawk A #37 Battery. (FL pipe rated @ 300psi, WP: ~80psi, kill switches & chokes will be installed to prevent exceeding 125psi for above ground pipelines) "EXHIBIT 1". If electricity is needed, approx 1018' of new electrical line will be installed. "SEE EXHIBIT 1A"
- 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.
- B.

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## **CONSTRUCTION MATERIALS**

### **A. Materials**

Cliche will be hauled or trucked 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**

Apache will be using a closed loop system. 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**

Apache will be using a Closed Loop System. Cuttings will be stored in steel roll off bins until they are hauled to a state approved disposal facility.

"SEE EXHIBIT 4"

### **C. Location of Access Road**

See Basin Surveys "LOCATION VERIFICATION MAP"

## **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:**

**Millard Deck Estate, c/o Bank of America NA, Trustee: Jeff Petter, Asst VP, US Trust-Farm & Ranch, Bank of America Private Wealth Mgmt, PO Box 270, Midland, TX 79702 (303 W. Wall, Midland, TX 79701) 432-688-4926.**

## **OTHER INFORMATION**

### **A. Terrain, Soil, Vegetation, Wildlife, Surface Use**

Slightly rolling hills; Topsoil is made up of caliche and sand; Plants are sparse, primarily grasses, some mesquite & shinnery oak; No wildlife observed but likely that deer, rabbits, coyotes & rodents traverse the area, which are all typical of the semi-arid desert land; Land primarily used for grazing.

### **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**

An archeological survey has been performed and submitted to the BLM by Boone Archeological Services LLC (NMCRI#129288). Any location or construction conflicts will be resolved before construction begins.

### **G. Onsite: Onsite by Trish Badbear, BLM Specialist on.**

### **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**

Claude (CD) Kemp  
Drilling Superintendent  
303 Veterans Airpark Ln #1000  
Midland, TX 79705  
432-818-1977 - office  
432-210-3234 - cell

**PRODUCTION**

Devalle Trammell  
Production Foreman  
8 Ellison Lane  
Eunice, NM 88231  
575-394-1503 - w  
432-208-3318 - c

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 12<sup>th</sup> day of Feb 2014

Well: HAWK A #39

Operator Name: APACHE CORPORATION

Signature: Maxwell Grove Printed Name: MAXWELL GROVE

Title: Drilling Engineer Date: 02/12/2014

Email (optional): maxwell.grove@apachecorp.com

Street or Box: 303 Veterans Airpark Ln., Ste. 1000

City, State, Zip Code: Midland, TX 79705

Telephone: 281-302-2881

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.