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## SURFACE USE PLAN OF OPERATIONS

ELLIOTT EM 20 FEDERAL #2 Lease #: NMNM-0557256  
SHL: 1750' FNL & 845' FWL BHL: 2310' FNL & 990' FWL UL: E SEC: 20 T22S R37E  
Lea County, NM

### 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 Basin Surveys.

**B. Existing Roads:**

- a. From Junction of Delaware Basin Rd & St Hwy 207, go West 2.4 miles, then South 1.3 miles, then East 0.4 miles to proposed lease road.

**C. Route Location**

- a. Approx 30.2' 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. *EXHIBIT 1* 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 BLUE 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. Production facilities will be located at the Elliott EM 20 Federal Battery at the Elliott EM 20 Federal #1.

**B. New Facilities in the Event of Production**

In the event well is productive, APACHE will install a new 3" NUPI rated 250# surface flow line, approx. 700' in length, to the Elliott EM 20 Federal Battery following lease roads. Apache also plans to install approx. 100' of new electrical line to an existing power line. "SEE EXHIBIT 1".

**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"

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## 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

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

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 5"

## 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 & 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:  
**The Millard Deck Estate, c/o Bank of America, N.A., U.S. Trust, Private Wealth Mgmt.  
500 W. 7<sup>th</sup> St., 2<sup>nd</sup> Floor, PO Box 1479, Ft. Worth, TX 76101-1479, 817-374-9384**

## OTHER INFORMATION

- A. Terrain, Soil, Vegetation, Wildlife, Surface Use  
The vegetation at the well site is grassland. The topsoil is very sandy in nature. Plants are sparse which may include Plains Lovegrass, Sand Dropseed and Sideoats Grama . No wildlife was observed but it is 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 will be performed and submitted to the BLM by Boone Archeological Services LLC. Any location or construction conflicts will be resolved before construction begins.
- G. Onsite: Onsite by Trish Badbear, BLM Specialist.
- H. Well Signs: Well signs will be in compliance per State requirements & specifications.
- I. Drilling Contractor: Pending

## OPERATOR'S FIELD REPRESENTATIVE

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

### **DRILLING**

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