



## **Best Management Practices**

### **1. EXISTING ROADS:**

The existing roads will be maintained in the same or better conditions as existed prior to the commencement of operations.

If the existing access road, proposed access road, and proposed pad are dry during construction, drilling, and completion activities, water will be applied to help facilitate compaction during construction and to minimize soil loss as a result of wind erosion.

### **2. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:**

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope.

Containment berms will be constructed completely around production facilities designed to hold fluids (i.e., production tanks, produced water tanks, and/or heater/treater). The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 110 percent of the capacity of the largest tank, and be independent of the back cut.

All safety measures have been considered in the design, construction, operation, and maintenance of the facility. EOG Resources, Inc will have a designated representative present during construction. Any accidents to persons or property on public lands will immediately be reported to the authorized regulatory agency.

### **3. METHODS OF HANDLING WASTE DISPOSAL:**

Cuttings and drilling fluids will be contained in the reserve pit.

The reserve pit will be used temporarily for storage of produced fluids during testing. Fracture stimulation fluids will be flowed back into the reserve pit for evaporation. Pit will be closed as soon as possible as weather conditions allow.

Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with.

All garbage and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage. Upon completion of operations, or as needed, the accumulated trash will be transported to a state approved waste disposal site. No trash will be placed in the reserve pit.

Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location. Any open pits will be fenced during drilling operations and said fencing will be maintained until such time as the pits have been backfilled.

#### **4. WELL SITE LAYOUT:**

##### **A. General Information:**

All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad, and spoil and topsoil storage areas).

If necessary, in order to divert surface runoff, a drainage ditch will be constructed around the upslope side of the well site.

The fill section of the pad that supports the drilling rig and any other heavy equipment will be compacted.

Topsoil from the berms and/or storage piles will be spread along the road's cut and fill slopes. Drainage ditches or culverts will not be blocked with topsoil and associated organic matter.

Weeds will be controlled on disturbed areas within the exterior limits of the access road and well pad. The control methods shall be in accordance with guidelines established by the EPA, BLM, state, and local authorities.

##### **B. Reserve Pit:**

The reserve pit will be constructed in a way that minimizes the accumulation of surface precipitation runoff into the pit. This may be accomplished by appropriate placement of subsoil/topsoil storage areas and/or construction of berms or ditches.

The reserve pit will be fenced on three sides during drilling operations and the fourth side will be fenced after the drilling rig moves off the location.

All pits will be fenced according to the following minimum standards:

A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.)

B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.

C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.

D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distances between any two posts shall be no greater than 16 feet.

E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

Siphons, catchments, drip pans, and absorbent pads will be installed to keep hydrocarbons produced by the drilling and/or completion rigs from entering the reserve pit. Hydrocarbons and contaminated pads will be disposed of in accordance with Colorado DEQ requirements.

The reserve pit will be lined with a pit liner that has a permeability less than  $10^{-7}$  cm/sec and have a burst strength equal to or exceeding 300 pounds per square inch (psi) or puncture strength of 160 psi or greater and grab tensile strength of 150 psi or greater. The liner will be resistant to deterioration by hydrocarbons. The liner will not be installed directly on rock. Where necessary, pits will first receive a layer of bedding material (e.g., sand or geotextile fiber liner) sufficient to prevent contact between the liner and any exposed rock.