

BC Operating, Inc.
Surface Use and Plan

Dogie Draw 23 Federal #2H

SHL: 240' FNL & 1980' FWL of Unit Letter 'C', Section 26, T-25S, R-34E

BHL: 240' FNL & 1980' FWL of Unit Letter 'C', Section 23, T-25S, R-34E

Lea County, New Mexico

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This Surface Use Plan is submitted with Form 3160-3, Application for Permit to Drill, in accordance with BLM Onshore Oil and Gas Order Number 1 Section III.D.4., covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

a. Existing Roads:

1. The well site and elevation plat for the proposed well are attached to Form 3160-3 and reflect the proposed well site layout (NMOCD Form C-102). The well was staked by Lloyd P. Short.
2. Surface Use Plan – Attached is a Vicinity map showing the well and roads in the vicinity of the proposed location. There are existing roads that provide access to other wells in the area that will be utilized for access to this new location. These roads are in good condition and will not require any improvements for this well.

Directions:

From Carlsbad, New Mexico, at the intersection of W. Greene Street and N. Canal Street, head East on Greene Street for 2.0 miles turning right onto Refinery Road and traveling 12.5 miles. Then, turn left and take New Mexico State Highway 31 for 2.4 miles before turning right onto New Mexico State Highway 128 and traveling for 38.7 miles. Then, turn right onto Battle Axe Road and go 2.6 miles before turning right to continue on Battle Axe Road for an additional 4.7 miles. At this point, turn left onto an unnamed lease road and travel 2.3 miles from where the proposed pad site is 2845' to the Northeast.

3. Right of Way using the proposed route is hereby being requested, if necessary.
4. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition in the same or better condition than before operations began for as long as any operations continue on this lease.

b. New Access Road and Drill Pad:

1. We will come off the lease road built for the Dogie Draw 23 Federal #1H and will come into the Northeast side of the drill pad. The proposed well site and the access route to the well site are shown on Surface Use Plan attachments and maps. The maximum width of the driving surface will be 14 feet. The maximum width of surface disturbance needed to construct the road will be 25 feet. The road will be crowned and ditched with a 2 % slope from the tip of the crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.

The drill pad will be no bigger than 300' x 300' location. We will do an archeological survey that will encompass the drill pad and be an area 600' x 600'. See attached well pad topo map for additional information.

2. Surface Use Plan attachment also is a plat showing the well site layout and drill pad dimensions for a rig utilizing a closed loop system. This well will be drilled with a closed loop system so no reserve pits will be constructed.
3. The drill pad will be 300' x 300' square shaped (see Surface Use Plan attachments and maps) and will require approximately 4' of cut and fill from the East side of the pad to the West side of the pad. The drill pad will be surfaced with 4-6 inches of compacted caliche. The average grade will be approximately 1%. Topsoil will be stockpiled on the South side of the location.

c. Location of Existing Wells:

Surface Use Plan one mile map shows all wells within a one mile radius of the proposed well.

d. Location of Existing and/or Proposed Production Facilities:

1. In the event the well is found productive, a 3" poly flowline with 125psi working psi to carry oil, gas and water will be run to the tank battery along the new road to the Dogie Draw 23 Federal #3H, where the tank battery will be located.
2. The well should be a producing oil well and will be produced initially with a submersible pump and then with a conventional pumping unit.

3. All flowlines will adhere to API standards.
 4. We will run electric lines alongside proposed new road. We will work with Xcel Energy to run power to the location along the proposed access road. Xcel will complete any necessary ROW information.
- e. Location and Types of Water Supply:
This location will be drilled using a combination of water mud systems (outlined in the Section f of the Drilling Plan). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown. Temporary flowlines will be used for drilling and fracing activities.
- f. Construction Materials:
Surface material will be native caliche. Construction materials will be obtained from the nearest approved BLM, Fee or State pit or from existing deposits found under the location.
- g. Methods of Handling Waste:
1. All trash, junk and other waste material, including broken sacks and/or pallets, will be removed from the well site within 30 days after finishing drilling and/or completion operations. All waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
 2. All drilling fluids and cuttings will be trucked to an approved disposal facility.
 3. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete. Any trailer houses and/or temporary living quarters on the well site will be plumbed into a sanitary septic system.
 4. Disposal of fluids to be transported by an approved disposal company.
- h. Ancillary Facilities:
1. No campsite or other facilities will be constructed as a result of this well.
- i. Well Site Layout:
1. Surface Use Plan attachment shows the proposed well site layout with dimensions of the pad layout.
 2. Surface Use Plan attachment is a schematic showing the rig equipment on the well pad.

3. Surface Use Plan attachment shows the proposed location of the topsoil stockpile.
 4. Mud pits in the active circulating system will be steel pits and a closed loop system will be utilized.
- j. Plans for Surface Reclamation:
1. If the well is productive, we will reclaim the approximately 50' on the South *and West* side of the drill pad.
 2. Interim reclamation consists of minimizing the footprint of disturbance by reclaiming all portions of the well site not needed for production operations. Topsoil is respread over areas not needed for production operations and recontoured to the surrounding area and reseeded. All interim reclamation will be complete within 6 months of completion activities.
 3. Topsoil will be stockpiled on the South side of the location and 100% of this material will be used for the reclamation after the well is drilled and completed and production facilities are installed. When the well is P&A'd, we will restore the surface to its natural state. If well is to be plugged and abandoned the entire pad and road not needed will be reclaimed. Base material will be hauled and top soil will be re-contoured to natural state and seeded. Seed mixture will be to BLM specifications. All work will be complete within 6 months of final abandonment of the wellbore.
 4. If the well is not productive, a dry hole marker will be installed, all caliche will be removed from the location, the topsoil returned to the location and be re-contoured as close as is practical to the original contour. The location will then be ripped and seeded.
- k. The surface is owned by the BLM and is administered by their office. The address is 620 E. Greene Street, Carlsbad, New Mexico 88220. The phone number is 575-234-5972. There is also a grazing tenant by the name of Mark McCloy. His address is P.O. Box 1076, Jal, New Mexico, 88242. His phone number is 432-940-4459.
- l. Other Information:
1. The area surrounding the well site is fairly level with a small hill from the Southeast to the Northwest. The topsoil is sandy. The vegetation is moderately sparse with native yuccas, mesquite, shinnery oak and wild grass. No wildlife was observed but it is likely that deer, rabbits, coyotes and rodents traverse the area.
 2. There is no permanent or live water in the general proximity of the location.
 3. The closest dwelling to this location is over 2 miles away from the SHL.

4. An onsite inspection was conducted on December 2nd, 2014 with Trisha Badbear.