

BOPCO L.P.

SURFACE USE PLAN
BOPCO' – BMP's

Yellow Creek Federal 32-41-1
NE/4NE/4, Section 32, T1N, R98W, 6th P.M.
Rio Blanco County, Colorado
Federal Lease COC-59394

1. **EXISTING ROADS**

- a. From the intersection of U.S. Highway 64 and 10th Street in Meeker, Colorado, proceed in a westerly direction along U.S. Highway 64 approximately 19.8 miles to the junction of the Piceance Creek Road (Rio Blanco County Road #5); exit left and proceed in a southerly direction along Piceance Creek Road # 5 approximately 4.6 miles to the junction of County Road #20; exit right and proceed in a northwesterly direction along County Road #20 approximately 2.7 miles to the junction of County Road #83 (south) and RBC Road #88 (north). Continue on County Road #20 in a southwesterly direction approximately 2.3 miles to the junction of RBC Road #122; exit right and proceed in a westerly direction along RBC Road #122 approximately 5.1 miles to the proposed access road. Exit right and follow road in a northerly direction approximately 315 feet to the proposed location. Total distance from Meeker, Colorado to the proposed well location is approximately 34.5 miles in a westerly direction.
- b. All existing roads will be maintained and kept in good repair during all phases of operation.
- c. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- d. Refer to Sheets 7 and 8 for existing roads leading to the proposed well location.

2. **NEW OR RECONSTRUCTED ACCESS ROADS:**

Refer to Sheet 8

- a. From the existing County Road #122 that crosses the N/2 of Section 32, a new road is proposed trending northerly approximately 315 feet to the proposed well location. BLM approval to construct and utilize the proposed access road is requested with this application.
- b. Approximate length.....315 ft
- c. Requested right-of-way width.....30 ft
- d. Road clearing width22 ft

- e. Maximum grade.....10%
- f. Crown Design.....None
- g. Turnouts.....None
- h. Drainage and ditchNone
- i. On-site and off-site erosion control.....**Addressed in Stormwater Management Plan and “BLM’s BMP” document**
- j. Revegetation of disturbed areas.....**See Reclamation Plat**
- k. Location and size of culverts and/or bridges.....None
- l. Fence cuts and/or cattle guards..... None
- m. Major cuts and fills.....None
- n. Source and storage of topsoil.....**The top 6” of soil will be segregated from excavation materials, refer to Sheets 3a, 3b, 3c**
- o. Type of surfacing materials, if any.....Native soils

If fencing is required during reclamation to protect topsoil piles/re-seeding areas then BOPCO will install it.

An off-lease right-of-way will not be required. All surface disturbances for the road will be within the lease boundary.

3. **LOCATION OF EXISTING WELLS:**

Refer to Sheet 9

- p. Producing wells.....YCF 32-33-1
- q. Water wells.....None
- r. Abandoned wells.....None
- s. Temporarily abandoned wells.....None
- t. Disposal wells.....None
- u. Drilling/Permitted wells.....None
- v. Shut-in wells.....None
- w. Injection wells.....None
- x. Monitoring/observation wells.....None

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

Refer to Sheet 5 (Typical Rig Layout) and Sheet 6 (Typical Production Layout with Tank Battery).

- a. If the well is a producer, all production facilities will be authorized by Sundry Notice.
- b. Production facilities will be installed following drilling of the initial well from this pad as reflected on the referenced sheets of the plat package. The tank battery facilities are adjacent to the well pad (between Corners 2 and 3) and along the proposed access corridor to minimize relocation and surface disturbance when future directional

- drilling occurs from this pad. Existing facilities will be moved and replaced to accommodate future drilling activity on this pad.
- c. Site preparation for the drilling or production tank battery area will be done with standard excavation equipment using native materials. If additional surface material (gravel) is needed it will be obtained from a commercial source or an approved borrow area.
 - d. All permanent structures (on-site for more than 6 months or longer) constructed or installed will be required to be painted a Beetle color. Facilities required to comply with OSHA will be excluded.
 - e. Secondary containment shall be constructed around the tank battery, or sufficient capacity to contain at least 110 percent of the storage capacity of the largest tank.
 - f. Cuttings pits will be properly fenced to prevent any wildlife and livestock entry.
 - g. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes. These areas will be re-seeded. Refer to Item 10.
 - h. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
 - i. If the well is capable of economic production buried gas and water lines will be required. Approximately 325 feet of 6 inch steel buried gas gathering line and approximately 325 feet of 3 inch flex pipe buried line for water will be installed. The lines will tie into an existing pipeline in the SW1/4NE1/4, section 32, T1N, R98W, 6th PM (refer to Sheet 10). BOPCO, L.P. (BOPCO) intends to connect the buried gas pipelines together utilizing conventional welding technology.
 - j. An off-lease right-of-way will not be required.

5. LOCATION OF WATER SUPPLY

No water supply pipelines will be laid for this well.

No water well will be drilled for this well.

Drilling water for this well will come from the produced water from the field to be used during drilling operations. This water will be hauled over the approved access road(s) shown within the attached map set (Sheet 7 and 8).

- a. Water for construction, drilling, dust suppression and operations will be utilized from one of the following sources:

Structure	Appropriation. Date	Decree Date	Amount	Priority No.	Case No.
Imes, Reynolds & Mckell Ditch	11/16/1888	10/2/1899	13.1 cfs	119	C.A. 82
Imes, Reynolds & Mckell Ditch	1/1/1889	5/23/1902	2.20 cfs	130	C.A. 111
Imes, Reynolds & Mckell Ditch	5/18/1899	5/23/1902	1.60 cfs	131	C.A. 111
Imes, Reynolds & Mckell Ditch	11/18/1957	11/21/1966	1.00 cfs	629	C.A. 1269
Imes, Reynolds & Mckell Ditch	11/20/1957	11/21/1966	3.70 cfs	631	C.A. 1269
Imes, Reynolds & Mckell Ditch	5/4/1964	11/21/1966	2.05 cfs	739	C.A. 1269
George S. Witter Ditch	4/15/1887	10/2/1899	2.50 cfs	117	C.A. 83
George S. Witter Ditch	7/15/1898	10/2/1919	1.90 cfs	118	?
George S. Witter Ditch	5/1/1902	9/14/1916	2.60 cfs	216	C.A. 285
George S. Witter Ditch	11/7/1957	11/21/1966	7.90 cfs	616	C.A. 1269

- b. The secondary water supply for construction, drilling, dust suppression and operations will be provided by the city of Meeker, a local source of municipal water, through a direct water purchase.
- c. Total estimated water needed for the proposed well, including drilling, completion and dust abatement activities may require up to 30,258 barrels, or 3.9 acre-feet, of water.

6. **SOURCE OF CONSTRUCTION MATERIALS**

- a. Construction material for this location site and access road will be barrow material accumulated during construction of the location site and access road. Excess soil material associated with the well pad will be stored between Corners 4 and 6 for the pad and the west edge of the tank battery (refer to Sheets 3a, 3b, and 3c). The soil in this area is described by the Natural Resources Conservation Service as “rentsac channery loam”.
- b. If additional material, such as gravel, will be needed, the use of such materials will conform to 43 CFR 3610.2-3. The source for any needed gravel will be from a state approved gravel pit.
- c. No construction materials will be removed from BLM lands.

7. **WASTE DISPOSAL**

- a. BOPCO proposes to use a de-watering system in its drilling operations. The system uses a series of centrifuges to remove the cuttings from the drilling fluid and returns the fluid to tanks while the cuttings are disposed of in a cuttings pit

on location. This method eliminates the need for a separate reserve pit and has proved successful on drilling operations within the Piceance Basin.

- b. There will be no cuttings pit on this location.
- c. If a cuttings pit is allowed the pit will be located on the pad between Corners 4 and 5 and will have measurements of 50 feet by 50 feet by 12 feet deep. The constructed volume of the pit will be 2,310 barrels (bbls) or 480 cubic yards assuming a 2 foot freeboard at capacity (refer to Sheet 3a). The pit would be lined with a 24 mil liner. No fluids would be allowed in the pit. The cuttings will be dried before being buried and if necessary they will be tested per BLM requirements for threshold HC toxicity levels before being hauled away to an approved EPA landfill.
- d. Drill cuttings will be buried within the cuttings pit. If time allows, the pit will be reclaimed prior to the end of the drilling season to eliminate any wildlife concerns.
- e. There will be no cuttings pit on this location unless the current COGCC rule is amended. Cuttings will be placed on 12 mil black plastic, piled up and then haul to the Meeker Landfill. A berm will be put around the plastic pile to prevent runoff and to guard against a stormwater event. If a pit is allowed, the pit will be fenced "stock tight" on three sides during drilling operations and on fourth side at time of rig release. The fencing will consist of 3 foot high-woven wire topped with two strands of barbed wire. The cuttings pit will remain fenced until backfilled.
- f. No trash or debris will be disposed of in the cuttings pit.
- g. All drilling fluids will be contained within a closed loop drilling system. Any extra drilling fluids will be stored in tanks in the SW quadrant of the pad (refer to Sheet 5). Drilling fluids may be reused at the next well or delivered to an approved commercial disposal facility. If commercial disposal is selected, it is anticipated that RNI Industries (DALBO) located in Rangely, CO will be utilized.
- h. Produced fluids will be contained in test tanks during completion and testing.
- i. Sewage disposal facilities will be in accordance with State and local regulations at a site on the pad outside of drilling and/or production activity areas. Portable chemical toilets will be supplied and properly secured to the site to prevent possible upset. Sewage will not be buried on location or put in a borehole. The portable chemical toilets will be regularly inspected and cleaned until they are removed from the site.
- j. Garbage and other waste will be contained in a portable bear-proof trash cage which will be totally enclosed with small mesh wire or dumpsters. The cage or dumpster will be located on the pad at a site outside of drilling and/or production activity areas. The contents of the cage or dumpster will be regularly transported to a Colorado Department of Public Health and Environment (CDPHE) approved Sanitary Landfill until completion of operations. Trash will be picked up if scattered and contained in trash container as soon as practical after rig is moved off location. Trash containers would be relocated off-site as soon as practical after rig relocation.

- k. Upon release of the drilling rig, rathole and mousehole will be filled. Excess equipment will be removed and the well site area will be cleaned and all refuse removed.

8. **ANCILLARY FACILITIES**

- a. Garbage containers and chemical toilets are the only ancillary facilities proposed in this application. The toilets will be pumped out weekly, new chemicals will be added and the waste will be taken to a state approved facility be the company which supplies the toilets.
- b. No camps, airstrips or staging areas are proposed with this application.

9. **WELL SITE LAYOUT**

Refer to Sheets 2b, 3a, 3b, 3c, 5 and 6

Sheet 3c, shows the topsoil piles which will be covered with fiber blankets and if necessary seeded to prevent erosion. At the time reclamation occurs these topsoil piles will be used to reclaim the site.

- a. Pad length.....400 ft
- b. Pad Width.....300 ft
- c. Cuttings pit depth.....12 ft
- d. Maximum cut.....18.3 ft (at Corner 4)
- e. Maximum fill.....9.4 ft (at Corner 1)
- f. Location of excess material.....Between Corners 4 and 6 and south of Corner 3
- g. Location of topsoil material.....Between Corners 1 and 2, 3 and 4 and Corners 6 and 8
- h. Access Road location.....Between Corners 2 and 3
- i. Tank battery length.....130 ft
- j. Tank battery width.....40 ft
- k. Maximum cut.....2.7 ft (at the NW and SW corners)
- l. Maximum fill.....0ft (at the NE corner)
- m. Tank battery topsoil stockpile location.....At the SW corner
- n. Cut and fill slopes (unless otherwise noted).....1.5:1
- o. Total disturbance (pad, access and tank battery).....5.74 acres
- p. Of which, total material stockpiles.....1.94 acres (or 33% of total disturbance)
- q. Estimated earthwork quantities
 - 1. Total cut material.....18,120 cu yds
 - 2. Total fill material.....9,720 cu yds

10. **PLANS FOR RESTORATION OF THE SURFACE**

Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.

Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.

Following BLM published Best Management Practices the interim reclamation will be completed within 180 days of completion of the well to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.

All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.

The area outside of the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend with the surrounding area. The redistribution of the topsoil will occur and reseeded as prescribed within the BLM approval documents

Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.

The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.

Prior to final abandonment of the site, all disturbed areas, including the pad, pipeline right-of-way, and access road if necessary will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BLM. The BLM recommended seed mix will be detailed within their approval documents.

11. **SURFACE OWNERSHIP**

- a. Well location.....Federal
- b. Access road.....Federal
- c. Pipeline location.....Federal

12. **GENERAL INFORMATION**

- a. Project area is situated in the undulating uplands southwesterly of the White River. Soils characteristics include: clay/loam texture, well drained, sand and silt deposition, surrounded by rock outcrops with moderately eroded drainages.

- b. Vegetation: Previously treated sagebrush and pinyon-juniper woodlands. Current vegetation consists of scattered shrubs (big sagebrush and rabbitbrush) and perennial and annual seeded and native grasses including wheatgrass, Needle and thread and rye grass species.
- c. Wildlife: Mule deer, elk, coyote, rabbits, raptors, and rodents.
- d. Concurrent surface use: Livestock grazing, wild horses and wildlife habitat.
- e. Mineral Owner: Federal. Managed by the Bureau of Land Management, White River Field Office, 220 East Market Street, Meeker, Colorado 81641.
- f. Surface Owner: Federal. Managed by the Bureau of Land Management, White River Field Office, 220 East Market Street, Meeker, Colorado 81641.
- g. Cultural field survey will be completed prior to any surface disturbance. Report will be filed with the BLM and any consultation conducted as needed.
- h. If any fossils are discovered during construction, operator shall cease construction immediately and notify Authorized Officer (AO) so as to determine the significance of the discovery.
- i. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator regarding:
 - 1. Whether the materials appear eligible for the National Register of Historic Places.
 - 2. The mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary), and
 - 3. A timeframe for the AO to complete and expedite review under 36 CFR 800-111 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.
- j. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the Operator will then be allowed to resume construction.
- k. BOPCO maintains a file, per 29 CFR 1910.1200(g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include:
 - 1. Drilling mud and cementing products which are primarily inhalation hazards,

2. Fuel (flammable and/or combustible), and
 3. Materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives).
- l. The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances and EHSs and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.
 - m. No surface use is allowed during December 1 through March 31 for the purpose of protecting big game critical winter range.

13. LESSEE'S OR OPERATOR REPRESENTATIVES AND CERTIFICATION

Trent W. Green, Division Production Manager
9949 Oswego Street, Suite 200
Parker, CO 80134
Phone: (303) 799-5080
Fax: (303) 799-5081

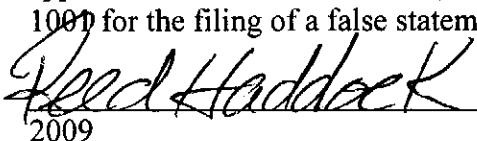
Reed Haddock, Regulatory Analyst
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Parker, CO 80134
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All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

OPERATOR CERTIFICATION

This drilling permit will be valid for a period of two (2) years from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by BOPCO, L.P. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.


2009

DATE: November 17,

Reed Haddock
Regulatory Analyst

BOPCO, L.P. Representatives:

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Jay Rasmussen, Area Production Supervisor; phone: (970) 220-2235

STATEMENT OF USE OF HAZARDUS MATERIALS

No chemical(s) from the EPA's consolidated list of Chemicals subject to Reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 will be used, produced, transported, stored, disposed, or associated with the proposed action. No extremely hazardous substances, as defined in 40 CFR355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

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