

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
C-56849

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Merrion Oil & Gas Corporation

3a. Address
610 Reilly Ave, Farmington, NM 87401

3b. Phone No. (include area code)
505-324-5336

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NWNW S15, T1S, R101W

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
Big Ridge 15-1-101 #1

9. API Well No.
05-103-09806

10. Field and Pool or Exploratory Area
MNCSB

11. Country or Parish, State
Rio Blanco County, CO

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input checked="" type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Pit Closure
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

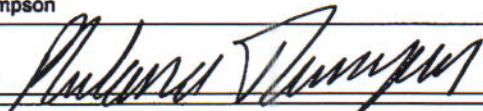
Merrion Oil & Gas intends to close the pit on the above mentioned location. Please see attached interim reclamation plan for the pit closure

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)
Philana Thompson

Title Regulatory Specialist

Signature



Date 07/30/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

Received 8/12/14
REM #8598
Doc #1733904

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☒ Site/Facility Closure ☐ Other (describe): _____

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

GENERAL INFORMATION

OGCC Operator Number: 56680		Contact Name and Telephone	
Name of Operator: <u>Merrion Oil & Gas Corporation</u>		Philana Thompson	
Address: <u>610 Reilly Ave</u>		No: <u>505-324-5336</u>	
City: <u>Farmington</u> State: <u>NM</u> Zip: <u>87401</u>		Fax: <u>505-324-5350</u>	
API Number: <u>05-103-09806</u>		County: <u>Rio Blanco</u>	
Facility Name: <u>CDX Reserve Pit</u>		Facility Number: <u>269597</u>	
Well Name: <u>Big Ridge Federal 15-1-101</u>		Well Number: <u>#1</u>	
Location: (Qtr, Sec, Twp, Rng, Meridian): <u>NWNW Sec 15, T1S R101W 6th PM</u>		Latitude: <u>39.96729</u> Longitude: <u>-108.72384</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): _____

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): dry land, industrial

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Moyerson-Rentsac Rock

Potential receptors (water wells within 1/4 mi, surface waters, etc.): 3/4 mile distance to nearest surface water

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	_____	_____
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface water	_____	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document): _____

Describe how source is to be removed: Liner will be removed and transported to Rio Blanco Solid Waste Facility in Meeker, CO
The area of the pit will then be tested and remediated as outlined in the attached pit closure plan

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.: _____
Any impacted soil will be reported and remediated as outlined in COGCC Rule 906,909 & 910. An additional workplan will be filed in the event a spill/release has been detected.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required. Per on-shore order #1, the disturbed area no longer needed will be re-contoured to the approximate natural contours. Grading, leveling and seeding will be done as recommended by the Authorized Officer. An interim reclamation plan (see attached) will be submitted to the BLM White River Resource Area in Meeker Co.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☐ N If yes, describe:

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: <u>8/31/2013</u>	Date Site Investigation Completed: <u>YBD</u>	Date Remediation Plan Submitted: <u>7/30/2014</u>
Remediation Start Date: <u>upon approval</u>	Anticipated Completion Date: <u>TBD</u>	Actual Completion Date: <u>TBD</u>

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.
Print Name: Philana Thompson Signed: Philana Thompson
Title: Regulatory Specialist Date: 7/30/2014

OGCC Approved: Alex Fischer Title: Environmental Supervisor Date: August 13, 2014

Conditions of Approval:

Conditionally approved, however, additional information or activities may be required during the course of remediation. If discrete samples are above 910-1 standards, the material shall be disposed at an approved facility. Waste manifest tickets shall be provided as documentation of disposal at an approved facility, including pit liner.

Interim Reclamation Plan- Pit #269597
Big Ridge Federal 15-1-101 #1
05-103-09806
Federal Lease # C56849
Location: NWNW S15, T1S, R101W

Pit Interim Reclamation Objectives:

The objectives of this interim reclamation (IR), which reestablishes vegetation, ecological function and other natural resource values during the productive life of an energy facility (e.g. well pad), are to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; to control erosion and sediment transport; and to minimize loss of habitat, forage, and visual resources throughout the project life. IR will be judged successful when disturbed areas not needed for long-term production operations have been recontoured, stabilized, and revegetated with a self-sustaining, vigorous, diverse, native (or otherwise approved) plant community sufficient to minimize visual impacts, provide forage, stabilize soils, and impede the invasion of noxious weeds.

Proposed Pit Interim Reclamation Plan:

Merrion Oil & Gas will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.

- Contact BLM & Colorado Oil & Gas Commission 72 hours prior to commencing pit closure process.
 - BLM Jay Johnson 970-878-3854
 - COGCC Kris Neidel 970-871-1963
- Remove and dispose of pit liner at the Rio Blanco County Solid Waste Facility
- Sample Soils according to rule COGCC 910b(3) B, 5 discreet samples will be taken, with one being true pit bottom, immediately below line from pit surface. A minimum of one background sample will be collected and analyzed for any potential release. An areal map of the tested areas will be provided in closure report.
- Pit remediation and reclamation will be completed upon compliance with the concentrations as per COGCC Table 910-1 standards.
- In the event soil analysis shows possible spill/release, an additional plan will be submitted for remediation of any contaminated soils.
- The pit will be backfilled in compacted lifts no deeper than 4 feet, to prevent subsidence under any surface pressures.
- Seeding of topsoil will be done at the time of disturbance/ construction.
- Other stabilization measures to be implemented in disturbed areas at the time of initial site construction may include pre- and post-construction BMPs, contouring, texturing, mulching, slash/brush berming/storage, and weed monitoring/ control.
- Stabilization measures would begin at the time of construction, or at least within 72 hours after initial surface disturbing activities, in order to stabilize materials, maintain biotic soil activities and minimize weed infestations.

Revegetation

Following soil preparations, a range drill (disk type seed drill) will be used to apply the approved seed mix over the disturbed areas. The drill will be equipped with a depth regulator to ensure even planting depths appropriate to the plant species and soil types. Should broadcast seeding be deemed more appropriate in some areas, the seed application rates will be doubled and a rake or harrow used to incorporate the seed into the soil. Any steep slopes, greater than 2:1, will be blanketed for soil stabilization and seed retention.

The seed mixture and application rates will be as follows:

Seed mixtures will be certified weed-free and the seeding records (bag labels) or other official documentation will be available to the Authorized Officer prior to seeding.

1. All disturbed areas must be promptly seeded with Native or Standard Seed Mix #3 (see below). The elevation and vegetation community for this location are: Mid Elevation Sagebrush (5,500-7,200 ft). Therefore it is recommended that this site be seeded between September 1 and March 15. If an alternate date of seeding is requested, contact the designated Natural Resource Specialist prior to seeding for approval. Seed mixture rates are Pure Live Seed (PLS) pounds per acre. Drill seeding is the preferred method of application and drill seeding depth must be no greater than ½ inch. If drill seeding cannot be accomplished, seed should be broadcast at double the rate used for drill seeding, and harrowed into the soil.

Seed Mix	Cultivar	Common Name	Scientific Name	Application Rate (lbs PLS/acre)
3	Rosana	Western Wheatgrass	<i>Pascopyrum smithii</i>	4
	Whitmar	Bluebunch Wheatgrass	<i>Pseudoroegneria spicata</i> ssp. <i>inermis</i>	3.5
	Rimrock	Indian Ricegrass	<i>Achnatherum hymenoides</i>	3
		Needle and Thread Grass	<i>Hesperostipa comata</i> ssp. <i>comata</i>	2.5
	Maple Grove	Lewis Flax	<i>Linum lewisii</i>	1
		Scarlet Globemallow	<i>Sphaeralcea coccinea</i>	0.5
		Sulphur Flower Buckwheat	<i>Eriogonum umbellatum</i>	1.5

2. Use seed that is certified and free of noxious weeds. All seed tags will be submitted via Sundry Notice to the designated Natural Resource Specialist within 14 calendar days from the time the seeding activities have ended. The SN will include the purpose of the seeding activity (i.e., seeding well pad cut and fill slopes, seeding pipeline corridor, etc.). In addition, the SN will include the well or well pad number associated with the seeding activity, if applicable, the name of the contractor that performed the work, his or her phone number, the method used to apply the seed (e.g., broadcast, hydro-seeded, drilled), whether the seeding activity represents interim or final reclamation, an estimate of the total acres seeded, an attached map that clearly identifies all disturbed areas that were seeded, and the date the seed was applied.
3. All disturbed areas no longer needed for production (including but not limited to pit area) will be contoured to blend with the natural topography. Blending is defined as reducing form, line, shape and color contrast with the disturbing activity.

Weed Management

Merrion Oil & Gas objective is to implement an integrated weed management program to control weed populations and establish desirable vegetation utilizing the following strategies:

- Control the introduction and spread of weeds through early detection.
- Establish desirable native vegetation on disturbed areas through successful re-vegetation efforts.
- Treat and control known weed populations.

Among the measures that will be implemented to prevent the introduction or establishment of weeds in areas not already infested include:

- Identification and eradication of new infestations as quickly as practical.
- Implement successful re-seeding efforts as quickly as practical in areas that have been disturbed.

Local factors, such as soil type and stability; grade; associated vegetation; existing and proposed land use; proximity to water; weed type and stage of growth; and severity of infestation; will be considered in selecting the appropriate weed management method(s). The management method(s) selected will be the least environmentally damaging, yet practical and reasonable in achieving the desired results.

Merrion Oil & Gas will utilize chemical treatment as the preferred method of weed management and control. The proper use of herbicides at the optimum time can be an effective method for controlling persistent weeds. A Pesticide Use Proposal (PUP) will be pre-approved by the BLM prior to any chemical treatment. The use and handling of herbicides will be in accordance with all application rates, restrictions, and warnings listed on the label and MSDS. Preparation and application of all herbicides will be licensed by the State of New Mexico Department of Agriculture, and a Daily Weed Pesticide Application Record will be completed and retained for all spraying activities.

Other methods to be used for weed control will include the following:

- Remove soil, seeds, and vegetative matter prior to entering or leaving the project site on all construction equipment and transport vehicles, trucks, pickups, and other vehicles ;
- Ensure that all seed mixes, straw, and/or mulch used in reclamation are certified weed-free;
- Promptly revegetating disturbed areas;
- Treating and/or removing weeds prior to ground-disturbing activities to limit seed production and dispersal;
- Treating noxious weeds that have escaped the project area onto adjacent areas to prevent further expansion into un-infested areas and re-infestation of the treated area;

Interim Reclamation will be judged successful by the BLM, when:

- The Pit area has been recontoured, stabilized, and revegetated with a self-sustaining, vigorous, diverse, native (or otherwise approved) plant community sufficient to minimize visual impacts, reestablish wildlife habitat or forage production, stabilize soils, and impede invasion by noxious weeds.
- At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species which occur in the surrounding natural vegetation.
- Permanent vegetative cover will be determined successful when the basal cover of desirable perennial species is at least 80 percent of the basal cover of the undisturbed site or, of a reference area, or, if available, of the potential basal cover as defined in the National Resource Conservation Service (NRCS) Range/Ecological Site(s) for the area.
- The resulting plant community (in a healthy early seral state) must contain at least 80 percent desirable plant species, preferably one of which is a forb or shrub. Plants must be resilient, as demonstrated by vigor, well-developed root systems and flowers. Shrubs must be well established and at least in a "young" age class, rather than comprised mainly of seedlings that might not survive.
- No one species may exceed 70 percent basal cover in the resulting plant community, to achieve species diversity on the site. Desirable species include those defined by those in the BLM-approved seed mix, other desired species found in the reference area, or potential species in the NRCS range/ecological site.

END OF PLAN



State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109



FOR OGCC USE ONLY

RECEIVED

SEP 30 03

OGCC

EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

FORM SUBMITTED FOR:

☐ Pit Report

☒ Pit Permit

Complete the
Attachment Checklist

OGCC Operator Number: <u>14700</u>	Contact Name and Telephone <u>Al Arlian</u>	<table border="1"><thead><tr><th></th><th>Operator</th><th>OGCC</th></tr></thead><tbody><tr><td>Detailed Site Plan</td><td></td><td></td></tr><tr><td>Topo Map with Pit Location</td><td></td><td></td></tr><tr><td>Water Analysis (Form 25)</td><td></td><td></td></tr><tr><td>Source Wells (Form 26)</td><td></td><td></td></tr><tr><td>Pit Design/Plan & Cross Sect.</td><td></td><td></td></tr><tr><td>Design Calculations</td><td></td><td></td></tr><tr><td>Sensitive Area Determination</td><td></td><td></td></tr><tr><td>Mud Program</td><td></td><td></td></tr><tr><td>Form 2A</td><td></td><td></td></tr></tbody></table>		Operator	OGCC	Detailed Site Plan			Topo Map with Pit Location			Water Analysis (Form 25)			Source Wells (Form 26)			Pit Design/Plan & Cross Sect.			Design Calculations			Sensitive Area Determination			Mud Program			Form 2A		
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Mud Program																																
Form 2A																																
Name of Operator: <u>CDX Rockies, LLC</u>	No: <u>303-292-4051</u>																															
Address: <u>1801 Broadway, Suite 1203</u>	Fax: <u>303-292-1734</u>																															
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u>	Email: <u>aarlian@eazy.net</u>																															

API Number (of associated well): 05-103-09806 OGCC Facility ID (of other associated facility): _____

Pit Location (Qtr, Sec, Twp, Rng, Meridian): NWNW Sec. 16, T1S, R101W, 6th P.M.

Latitude: _____ Longitude: _____ County: Rio Blanco

Pit Use: ☒ Production ☐ Drilling (Attach mud program) ☐ Special Purpose (Describe use): _____

Pit Type: ☒ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☒ No

Offsite disposal of pit contents: ☐ Injection ☐ Commercial Pit/Facility Name: _____ Pit/Facility No.: _____

Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results.

Existing Site Conditions

Is the location in a "Sensitive Area?" ☐ Yes ☒ No Attach data used for determination.

Distance (in feet) to nearest surface water: 1,300' ground water: 1 mi. + water wells: 1 mi. +

LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:

Crop Land: ☐ Irrigated ☐ Dry Land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

SOILS (or attach copy of Form 2A if previously submitted for associated well)

Soil map units from USNRCS survey: Sheet No: 27 Soil Complex/Series No: 74

Soils Series Name: Puente - Mojaveon Rock Horizon thickness (in inches): A: 5" ; B: 4" ; C: 7"

Soils Series Name: _____ Horizon thickness (in inches): A: _____ ; B: _____ ; C: _____

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 10' Width: 10' Depth: 3'

Calculated pit volume (bbls): 53.43 bbls Daily inflow rate (bbls/day): < 1 bbl/day

Daily disposal rates (attach calculations): Evaporation 0.20 bbls/day Percolation: 0 bbls/day

Type of liner material: Polyethylene Plastic Thickness: 12 mil

Attach description of proposed design and construction (include sketches and calculations).

Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): Heater Treater

Is pit fenced? ☐ Yes ☒ No Is pit netted? ☐ Yes ☒ No

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Alvin R. ("Al") Arlian

Signed: [Signature] Title: Rocky Mountain Land Manager Date: September 30, 2003

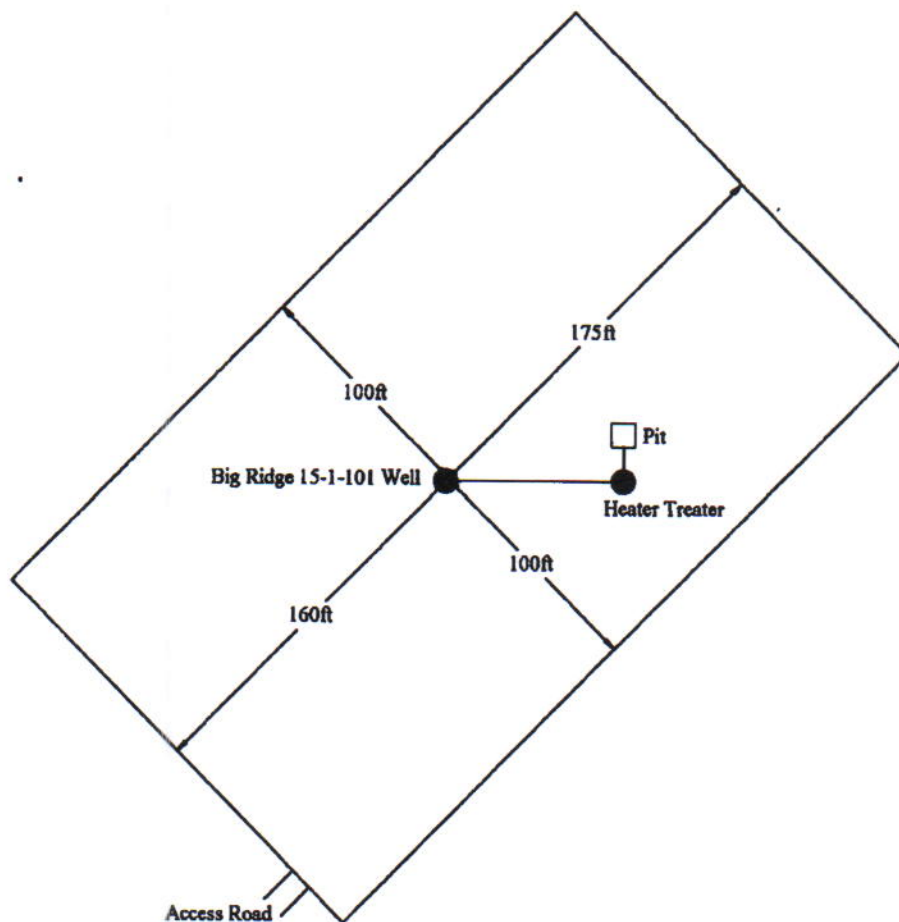
OGCC Approved: [Signature] Title: EPS Date: 9/30/03

CONDITIONS OF APPROVAL, IF ANY:

Facility Number: 269597



01202511



← North

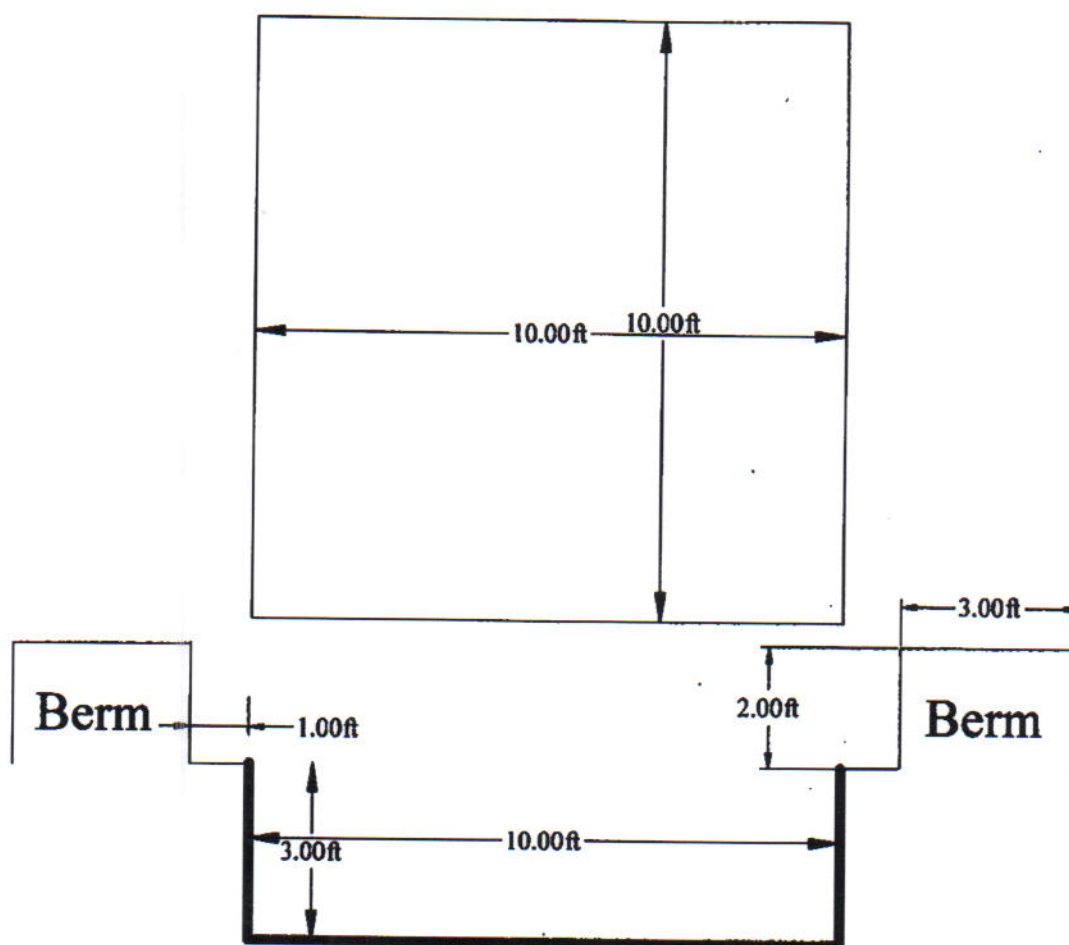
**Pad & Pit Layout
Big Ridge 15-1-101**

**Scale
1in.=75 ft.**

**CDX Rockies, LLC
1801 Broadway, Ste. 1203
Denver, CO 80202**

[illegible]

CDX Rockies, LLC ~ Big Ridge 15-1-101 Well Pit Design



Lined Pit

Big Ridge 15-1-101 Well (a/k/a Big Ridge 15-4)
NWNW 15-T1S-R101W
Rio Blanco County, Colorado

CDX ROCKIES, LLC

Pit Calculations:

Pit Volume: 10 ft. x 10 ft. x 3 ft. = 300 ft.³

$$(300 \text{ ft.}^3) / (5.6145 \text{ bbls./ft.}^3) = 53.43 \text{ bbls.}$$

Pit Evaporation: Given Evaporation Rate = 48 in./yr. &
Pit Surface Area = 100 ft.²

$$= 48 \text{ in./yr.} * 1 \text{ ft./12 in.} * 100 \text{ ft.}^2 * 1 \text{ Bbl/ 5.615 ft.}^3$$
$$= 0.20 \text{ Bbls per day}$$

Location is not a Sensitive Area due to the pit liner being used.