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DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 30, 2016

Dan Baker, President
Bronco Utah Operations, LLC
P.O. Box 527
Emery, Utah 84522

Subject: 2015 Annual Report Review Completion, Emery Deep Mine, Bronco Utah Operations, LLC, C/015/0015, Task ID #5168

Dear Mr. Baker:

The Division of Oil, Gas and Mining has completed the review of the 2015 Annual Report. Enclosed is a copy of the review which was completed June 29, 2016. Additional information is required in order to meet the requirements of the approved Mining and Reclamation Plan (MRP) commitments (See attached).

- 1) The Permittee must provide an annual water monitoring summary. The information is required per a commitment in the approved MRP (See Chapter VI, page VI-28).

Please provide the aforementioned information by August 5th, 2016. If you have any questions, please call me at (801) 538-5350.

Sincerely,

Steve Christensen
Permit Supervisor

SKC/sqs

Enclosure

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Print Form

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Annual Report

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified by the cover letter. During a complete inspection an inspector will check and verify the information.

GENERAL INFORMATION

Company Name	Bronco Utah Operations LLC	Mine Name	Emery Deep Mine
Permit Number	C/015/0015	Permit expiration Date	2021-01-07
Operator Name	Bronco Utah Operations LLC	Phone Number	
Mailing Address	Highway 10 South Box 527	Email	jpappas@broncoutah.com
City	Emery		
State	Utah	Zip Code	84522

DOGM File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Refuse Piles	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	See Appendix A-2, Quarterly Coal Refuse Inspections
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	See Appendix A-1, Annual Impoundment Inspections
Other:		

OPERATOR COMMENTS

Underground mining operations have been idle with no production since 12/17/10. Appendix A-1 (Annual Impoundment Inspections), Appendix A-2 (Quarterly Coal Refuse inspections), Appendix B-2 (Annual Subsidence Survey), Appendix B-2a (Monthly Subsidence Reports), Appendix B-4 (Emery Town Well Report), Appendix B-5 (Emery reclamation vegetation Qualitative report) Appendix D-1 (2010 Annual Report and final MSHA Mine Maps)

REVIEWER COMMENTS

Met Requirements Did Not meet Requirements

A commitment was made to conduct a qualitative study on the reclaimed test plots at the Emery Mine. The commitment was for a qualitative study rather than a quantitative one and density counts were made of the total area at each site. Total living cover was estimated for each site including all plant species. Sediment ponds and refuse piles were inspected by the inspectors on quarterly complete inspections. The reports complied with the requirements with the R645 coal rules. Refuse pile reports are PE certified. SD

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: CULTURAL RESOURCE PROTECTION

Objective: To monitor the five eligible cultural resource sites that could be damaged as a result of subsidence in the zero zero north area. Sites include: 42Em3964, 42Em3965, 42Em3969, and 42Em3974.

Frequency: Annually after undermining until the Division determines subsidence is no longer an impact.

Status: ongoing, Undermining has not occurred to date.

Reports: Annual

Citation: MRP, Confidential Binder, Chapter X, Part A, Page 1

Operator Comments

No mining occurred under these sites. Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments Met Requirements Did Not Meet Requirements

NA

Title: INVESTIGATIVE STUDY INTO RECLAMATION PRACTICE

Objective: To develop an enhanced reclamation plan, based on an evaluation of soil chemistry and vegetation establishment on previous reclaimed sites. (results located in Chapter 11, Appendix 1). This is a four-phase project. Phase I involves reporting on the investigation of past reclamation sites and practices at the mine.

Phase II requires to lower the profile of pond 6 stockpiles, reseed and keep wildlife off piles; reclaim ponds 4 & 5, and pond 1 subsoil pile; adjust final reclamation plans to incorporate beneficial treatments observed such as discing in 1 T/ac straw mulch; modify the seed mix to include only salt tolerant species and allow for a higher percentage of shrubs and forbs; adjust the reference areas to eliminate duplication.

Phase III requires that the applied techniques be evaluated qualitatively annually and quantitatively between the 4th and 6th year. These evaluations will be correlated to precipitation data.

Phase IV requires the permittee to revise the MRP to include the best technology for final revegetation.

Frequency: Ongoing

Status: Phase I has been met. Phase II has been met (2014).

Reports: Qualitative report annually, and quantitative report 4th and 6th year.

Citation: MRP, Chapter III, page 4a, and Chapter III, appendix 1

Operator Comments

Field meetings and historical review were held in April 2014. Three sites were chosen for re-grading and re-vegetation based on soil quality (see CH III pg 4a-4c).
Future vegetative monitoring results will be reported out through the annual report.

Reviewer Comments Met Requirements Did Not Meet Requirements

Title: WASTE STOCKPILE MATERIAL

Objective: To identify chemical characteristics of material as it is placed on the Temporary Coal mine Waste Stockpile. Sample and analyze waste for acid toxic parameters in accordance with R645-301-731.300.

Frequency: One sample/600 cu yds of coal mine waste brought to the temporary stockpile.

Status: Ongoing

Reports: Provide analysis in annual report.

Citation: MRP, Chapter II, page 10.

Operator Comments

No additional mine waste has been added in 2015. Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments Met Requirements Did Not Meet Requirements

NA

Title: SUBSIDENCE MONITORING- MONTHLY INSPECTIONS

Objective: Inspect the area outlined on Plate V-5 as full extraction areas when pillar splitting begins.

Frequency: Monthly until there is no record of additional subsidence.

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, Binder 1 of 3, Page 36

Operator Comments

Underground mining operations have been idle with no production since 12/17/10. Annual subsidence surveys were performed in 2015 (refer to Appendix B-2, Annual Subsidence Survey). Monthly subsidence reports of the 00 North subsidence area that was previously mitigated are underway and per DOGM email dated 10/12/13 copies of the monthly subsidence report are being emailed to DOGM and are compiled in the annual report at Appendix B-2a (Monthly Subsidence Reports).

Reviewer Comments Met Requirements Did Not Meet Requirements

Notes: The Emery Mine entered temporary cessation on 3/28/11. The Permit was then transferred to CONSOL on 2/21/14 and is no longer in temporary cessation.

The report provided in the annual report appendix B-2 meets the subsidence requirements of the Emery Deep MRP. The Permittee included a subsidence report and summary table with the annual report. The annual report also included the January through December monthly subsidence inspection forms completed by Russel Jensen of Consol Energy. The monthly subsidence inspection forms also included a monthly comparative photographs of six depressions. From the annual subsidence table the overall range of subsidence since 2007 ranged from 4.49 ft to an upheaval of 0.32 ft with an average of 0.12 ft. The Permittee has addressed the requirements of this commitment. (CP)

Title: SUBSIDENCE MONITORING- POINTS OVER PARTIAL PILLAR SECTIONS

Objective: monitor points over partial pillar sections that have been resurveyed once and where no significant movement (<0.5') was found will be surveyed within one year. If this subsequent survey shows no significant movement from the original survey, the point will be surveyed again at one year intervals. Points over advancing sections need not be resurveyed unless there has been evidence that subsidence has taken place (caving).

Frequency: As needed

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 36.

Operator Comments

Refer to appendix B-2, 2015 Annual Subsidence Survey

Reviewer Comments Met Requirements Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. The subsidence report provided in Appendix B-2 meets the subsidence requirements of this commitment.(CP)

Title: SUBSIDENCE MONITORING- NEW POINTS

Objective: Resurvey new monitoring points established over advancing sections such as mains and submains within one year after mining has been completed beneath the station. Include dates that points were established to track if the points have been resurveyed within a year after mining has been completed.

Frequency: As needed.

Status: Ongoing.

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 36.

Operator Comments

N/A, Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments Met Requirements Did Not Meet Requirements

NA (CP) Underground mining operations have been idle with no production at the site since 12/17/10. There have been no new monitoring points established over advancing section such as mains and sub mains. There is no need to establish pre-mining elevations and gradients of any irrigation ditches and pond embankments within the angle of draw at this time due to the mine being idle (CP.)

Title: SUBSIDENCE MONITORING- REPORT

Objective: Subsidence monitoring report containing: 1.) Mine maps showing where pillars have been pulled and the month and year that such pillars were removed or partially removed. 2.) Maps showing the location of survey monitoring stations and tension cracks and/or compression features visible on the surface. 2a.) Photographs of the subsidence monitoring points above the full extraction areas outlined on Plate V-5 to record pre and post subsidence. 3.) The differential level and horizontal survey summary and 4.) a narrative.

Frequency: As needed, report submitted to the Division annually.

Status: Ongoing

Reports: Provide report in annual report.

Citation: MRP, Chapter V, binder 1 of 3, page 37.

Operator Comments

Underground mining operations have been idle with no production since 12/17/10. Annual subsidence surveys were performed in 2015 (refer to Appendix B-2, Annual Subsidence Survey). Monthly subsidence reports of the 00 North subsidence area that was previously mitigated are underway and per DOGM email dated 10/12/13 copies of the monthly subsidence report are being emailed to DOGM and are compiled in the annual report at Appendix B-2a, Monthly Subsidence Report.

Reviewer Comments Met Requirements Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. The subsidence report provided in Appendix B-2 meets the subsidence requirements of this commitment.(CP)

Title: SUBSIDENCE MONITORING- PREMINING ELEVATIONS AND GRADIENTS

Objective: Establish pre-mining elevations and gradients of any irrigation ditches and pond embankments within the angle of draw. The permittee will monitor these areas by visual inspection and post-subsidence ground survey to establish the effects of subsidence.

Frequency: As needed.

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 37.

Operator Comments

N/A, Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments Met Requirements Did Not Meet Requirements

NA (CP)

Title: SUBSIDENCE MONITORING- MITIGATION REPORT

Objective: Provide, to the Division on an as-needed basis, a subsidence mitigation report that describes the surface mitigation projects and their status broken down by surface land owners.

Frequency: quarterly

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 37.

Operator Comments

Underground mining operations have been idle with no production since 12/17/10. Annual subsidence surveys were performed in 2015 (refer to Appendix B-2, Annual Subsidence Report).Monthly subsidence reports of the 00 North subsidence area that was previously mitigated are underway and per DOGM email dated 10/12/13 copies of the monthly subsidence report are being emailed to DOGM and are compiled in the annual report at Appendix B-2a, Monthly Subsidence Report.Monthly flow measurements of the dam breach panel 14th West (Bryant -14th West) are being taken and data presented in Appendix B-3, Bryant 14th West Flow

Reviewer Comments Met Requirements Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. The subsidence report provided in Appendix B-2 meets the subsidence requirements of this commitment.(CP)

Title: SUBSIDENCE MONITORING- UPDATE PRE-SUBSIDENCE SURVEY

Objective: Update the existing pre-subsidence survey and plates six months before full extraction and provide copies to the surface land owner, the Division and the water conservancy district.

Frequency: As needed, six months prior to full extraction.

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 37.

Operator Comments

N/A for 2015, no new monitoring points established. Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments Met Requirements Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. The subsidence report provided in Appendix B-2 meets the subsidence requirements of this commitment.(CP)

Title: SUBSIDENCE MONITORING- RESURVEY NEW MONITORING POINTS

Objective: Resurvey new monitoring points established over partial pillar sections within six months after final mining has taken place beneath them. Provide dates that points were established to track if the points have been resurveyed within six months after final mining.

Frequency: as needed

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 36.

Operator Comments

Reviewer Comments Met Requirements Did Not Meet Requirements

NA (CP)

Title: EMERY TOWN WELL MONITORING

Objective: Consol will evaluate data collected from the Emery town wells, using hydrographs and other appropriate means, and submit a report of findings to DOGM with the Annual Report.

Frequency: Annually

Status: Ongoing

Reports: Annual Report

Citation: Chapter VI, page VI-56.

Operator Comments

Refer to Appendix B-4 for the Emery Town Well Update report dated 1/15/2015.

Reviewer Comments Did Not Meet Requirements Met Requirements

The Permittee provided a summary of the Emery Town wells (#1 and #2). Data is summarized from November of 2007 to December 2015.

Title: MONITOR FIVE ELIGIBLE SITES IN THE ZERO ZERO NORTH AREA FOR IMPACTS FROM MINING

Objective: To monitor eligible cultural resource sites that could be damaged as a result of subsidence. Sites include: 42Em3964, 42Em3965, 42Em3966, 42Em3969, 42Em3974.

Frequency: Annually after undermining until the Division determines subsidence is no longer an impact.

Status: Ongoing. Undermining was expected to occur in 2010.

Reports: Annual Report

Citation: MRP, Confidential, Chap. X, Part A. page1.

Operator Comments

These sites have not been undermined at this time

Reviewer Comments Met Requirements Did Not Meet Requirements

NA

Title: WATER MONITORING

Objective: Consol will provide an annual water monitoring summary to be submitted by March 31st.

Frequency: Annually

Status: Ongoing

Reports: Annual Report

Citation: Chapter VI, page VI-28.

Operator Comments

Reviewer Comments Met Requirements Did Not Meet Requirements

The Permittee did not provide an annual water monitoring summary as required by the approved MRP.

FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: SOIL SAMPLING AT 4TH EAST PORTAL

Objective: Verify soil characteristics prior to final reclamation grading through sampling and analysis for pH, SAR, and EC with particular attention to those areas that were treated with dust suppressant.

Frequency: At final reclamation.

Status: At final reclamation.

Reports: report findings to Division.

Citation: MRP, Chapter III part C.1, page 11 and Appendix X, part C-3, page 24.

Title: SOIL SAMPLING OF POND NO. 4 AND POND NO. 9

Objective: To determine if evaporative salts have accumulated to a toxic level.

Frequency: at final reclamation

Status: at final reclamation.

Reports: report to the Division.

Citation: MRP, Chapter III, part C-1, page 12.

Title: SOIL TESTING OF RECLAIMED SITE BEFORE SEEDING

Objective: To verify the suitability of the growth media.

Frequency: At reclamation.

Status: At reclamation, before seeding.

Reports: report to Division.

Citation: MRP, Chapter VIII, part C-4, page 21, paragraph 1.

Title: PERMANENT WASTE DISPOSAL SITE SUBSTITUTE TOPSOIL AND SUBSOIL COVER

Objective: To determine how to segregate best available material within the disturbed area for use as substitute topsoil from less desirable material to be used as cover over the coal mine waste permanent disposal site.

Frequency: Prior to construction of permanent disposal site, Consol will resample the gravel pit site for topsoil substitute quality and quantity, and cover material quality. The site will be sampled on one sample per acre grid, with analysis on one foot

Status: Future Commitment

Reports: report to Division.

Citation: MRP, Chap VII, App. VII-2, pg. 2

Title: IDENTIFY CHEMICAL CHARACTERISTICS OF COAL MINE WASTE PRIOR TO FINAL BURIAL OR TREATMENT

Objective: In accordance with R645-301-731.300, determine chemical characteristics of coal mine waste in existing temporary coal mine waste stockpile. Commitment to core temporary pile in at least 5 locations and analyze waste in 5 ft. intervals for pH, EC, SAR, Acid Base Accounting, Se, B, and texture.

Frequency: One year prior to moving the waste

Status: Future Commitment

Reports: report to Division.

Citation: MRP, Chap III, pg. 13

OPERATOR COMMENTS (OPTIONAL)

REVIEWER COMMENTS

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

Reviewer Comments

MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Annual subsidence map		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine Map		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Comments Met Requirements Did Not Meet Requirements

The Permittee included the 2015 BLM map showing the mine workings (CP.)