



Received 10/25/18

24 October 2018

Mr. Daron Haddock
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Response to Deficiencies in Application Castle Valley Mining, LLC, C/015/0036
Waste Rock Site, Task ID#5721

Dear Mr. Haddock;

Listed below are corrections to the existing application on file with the Division of Oil, Gas and Mining:

1. The application ownership & control information (Appendix 1-4) requires updating to coincide with the information listed in the AVS system.

Ans. Appendix 1-4 has been amended to reflect changes to Ownership and Control.

2. The application must contain proof of publication.

Ans. The page in Appendix 1-6 needs to be replaced with attached page showing proof of publication from the Emery County Progress.

3. A quantitative and qualitative vegetation monitoring schedule needs to be included in Section 301-.356.100 of Chapter 3 BIOLOGY.

Ans. On page 3-15, the second paragraph, first bullet the sentence has been changed to read "Quantitative and qualitative data will be collected on the reclaimed and reference areas during years 4, 6, 9 and 10 of the 10 year reclamation liability period."

4. A new seed mix was requested by the Division of Wildlife Resources.

Ans. The seed mix in Table 3-1 on page 3-20 was changed to reflect the request of the Division of Wildlife Resources.

Page 2

In this submittal C1 and C2 forms are included to show what pages of this application have been changed for quick reference.

If you have any questions, please call me at (435) 687-5454

Sincerely,

 FOR TONY WELCH

Tony Welch
Resident Agent

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: Castle Valley Mining, LLC

Mine: Bear Canyon Mine

Permit Number: C/015/0036

Title: Deer Creek Waste Site (now know as the Castle Valley Mining, LLC Waste Rock Site)

Description, Include reason for application and timing required to implement:

Instructions: If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- Yes No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ increase decrease.
- Yes No 2. Is the application submitted as a result of a Division Order? DO# _____
- Yes No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does the application require or include public notice publication?
- Yes No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes No 9. Is the application submitted as a result of a Violation? NOV # _____
- Yes No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: _____
- Yes No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes No 13. Does the application require or include collection and reporting of any baseline information?
- Yes No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 15. Does the application require or include soil removal, storage or placement?
- Yes No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes No 19. Does the application require or include certified designs, maps or calculation?
- Yes No 20. Does the application require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided?
- Yes No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

Please attach one (1) review copy of the application.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein

JAREN JORGENSEN
Print Name

[Signature]
Sign Name, Position, Date

Subscribed and sworn to before me this 24 day of October, 2018

[Signature]
Notary Public

My commission Expires: 4-17, 2020

Attest: State of Utah } ss:
County of Emery

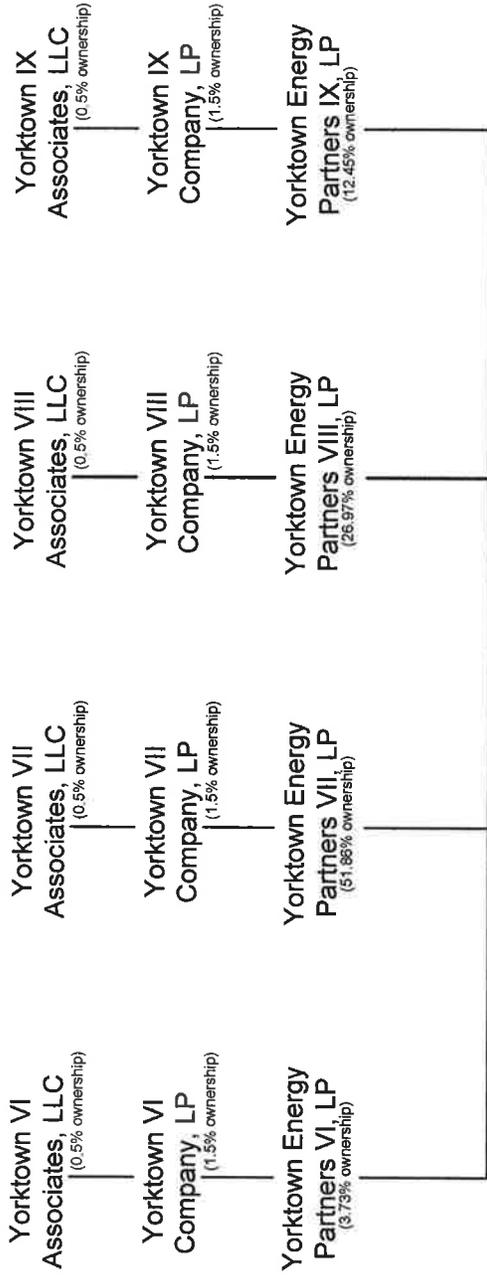


For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining

APPENDIX 1-4
OWNERSHIP AND CONTROL

Organizational Chart

Rhino Energy LLC



E-Starts Money Company
(47.41% ownership)

Royal Energy Resources Inc.
(55.39% ownership)

(100% ownership)

Rhino GP LLC
(partner)

Rhino Resource Partners Holdings LLC
(35.36% ownership)

Rhino Resource Partners LP
(100% ownership)

Rhino Energy LLC
(100% ownership)



Complete this item for each entity listed in the corporate structure.

Name of Entity Royal Energy Resources, Inc.

Mailing Address 56 Broad Street, Suite 2

Street Address (if mailing address is a Post Office Box)

City Charleston

State SC

Zip 29401

Telephone No. 843-900-7693

FEIN No. 11-3480036 Ownership/Control relationship to Permittee Member, Shareholder

NOTE: -if entity is a **SOLE PROPRIETORSHIP**, list owner

-if entity is a **PARTNERSHIP**, list all partners, including limited partners

-if entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar, and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Ian Ganzer	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	COO	06-10-15	09-13-16
Douglas Holsted	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	CFO	06-08-15	
Brian Hughs	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	DIR VP	10-13-15 10-13-15	
Ronald Phillips	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	PRS SEC	10-13-15 10-13-15	
William L Tuorto	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	DIR CEO TRS Owner (5.54%)*	03-06-15 03-06-15 03-06-15 03-06-15	
E-Starts Money Co.	56 Broad Street, Suite 2 Charleston, SC 29401	47-2787100	Owner (47.41%)*	03-06-15	

*The remaining ownership is a combination of publicly and privately owned – with no person or entity owning 10% or more

Complete this item for each entity listed in the corporate structure.

Name of Entity Rhino GP LLC

Mailing Address P.O. Box 1169

Street Address (if mailing address is a Post Office Box) 265 Hambley Boulevard

City Pikeville State KY Zip 41502

FEIN No. 56-2558619 Ownership/Control relationship to Permittee General Partner Telephone No. 606-444-7300

NOTE: -If entity is a SOLE PROPRIETORSHIP, list owner

-If entity is a PARTNERSHIP, list all partners, including limited partners

-If entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar, and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Brian Aug	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President	08-05-13	
Richard Boone	P.O. Box 1169, Pikeville, KY 41502	Declined	Sr. Vice President CFO Treasurer	10-05-10 10-05-10 10-05-10	09-01-16 09-01-16 09-01-16
Richard Boone	P.O. Box 1169, Pikeville, KY, 41502	Declined	President CEO Director	09-01-16 12-30-16 11-03-16	
Elizabeth Branham	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President Controller Assistant Secretary	10-05-10 10-05-10 10-05-10	
Joseph Funk	P.O. Box 1169, Pikeville, KY 41502	Declined	CEO Director	11-14-14 04-09-15	12-30-16 12-30-16
Joseph Funk	P.O. Box 1169, Pikeville, KY 41502	Declined	President	11-14-14	09-01-16
Ian Ganzer	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	09-13-16
David Hanig	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	

Entity Name	Address	SS #	Title	Beginning Date	End Date
Douglas Holsted	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
Brian Hughs	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
Chad Hunt	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President	10-05-10	
Whitney Calvert Kegley	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President Secretary General Counsel	07-16-12 07-16-12 07-16-12	
Scott Morris	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President	09-20-11	
Scott Morris	P.O. Box 1169, Pikeville, KY 41502	Declined	CFO Treasurer	09-01-16 09-01-16	
Ronald Phillips	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
Michael Thompson	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
William Tuorto	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director COB	03-17-16 03-17-16	-
Royal Energy Resources, Inc.	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	Sole Member	3-17-16	
Bryan H Lawrence	410 Park Avenue, 19 th Floor, New York, NY 10022	Declined	Director	12-30-16	

Complete this item for each entity listed in the corporate structure.

Name of Entity Rhino Energy LLC

Mailing Address P.O. Box 1169

Street Address (if mailing address is a Post Office Box) 265 Hambley Boulevard

City Pikeville State KY Zip 41502

FEIN No. 43-2016320 Ownership/Control relationship to Permittee Member, Shareholder Telephone No. 606-444-7300

NOTE: -if entity is a SOLE PROPRIETORSHIP, list owner

-if entity is a PARTNERSHIP, list all partners, including limited partners

-if entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar; and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Brian Aug	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President	08-05-13	
Richard Boone	P.O. Box 1169, Pikeville, KY, 41502	Declined	President	09-01-16	
Richard Boone	P.O. Box 1169, Pikeville, KY, 41502	Declined	Director	11-03-16	
Richard Boone	P.O. Box 1169, Pikeville, KY, 41502	Declined	Chief Executive Officer	12-30-16	
Elizabeth Branham	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President	01-01-07	
Elizabeth Branham	P.O. Box 1169, Pikeville, KY, 41502	Declined	Assistant Secretary	01-01-07	
Elizabeth Branham	P.O. Box 1169, Pikeville, KY, 41502	Declined	Controllor	01-01-07	
Joseph Funk	P.O. Box 1169, Pikeville, KY, 41502	Declined	CEO	11-14-14	12-30-16
Joseph Funk	P.O. Box 1169, Pikeville, KY, 41502	Declined	President	11-14-14	09-01-16
Chad Hunt	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President	08-28-08	

Entity Name	Address	SS #	Title	Beginning Date	End Date
Bryan H Lawrence	410 Park Avenue, 19 th Floor, New York, NY 10022	Declined	Director	12-30-16	
Whitney Calvert Kegley	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President	07-16-12	
Whitney Calvert Kegley	P.O. Box 1169, Pikeville, KY, 41502	Declined	Secretary	07-16-12	
Whitney Calvert Kegley	P.O. Box 1169, Pikeville, KY, 41502	Declined	General Counsel	07-16-12	
Scott Morris	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President	09-01-16	
Scott Morris	P.O. Box 1169, Pikeville, KY, 41502	Declined	Chief Financial Officer	09-01-16	
Scott Morris	P.O. Box 1169, Pikeville, KY, 41502	Declined	Treasurer	09-01-16	
William L Tuorto	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Executive Chairman	09-01-16	
Rhino Resource Partners LP	P.O. Box 1169, Pikeville, KY, 41502	Not Applicable	Member (100%)	10-05-10	
Richard Boone	P.O. Box 1169, Pikeville, KY, 41502	Declined	Sr. Vice President CFO Treasurer	06-10-10	09-01-16
				06-10-10	09-01-16
				10-05-10	09-01-16
Scott Morris	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President-Finance	02-04-16	09-01-16

Complete this item for each entity listed in the corporate structure.

Name of Entity Castle Valley Mining LLC

Mailing Address P.O. Box 1169

Street Address (if mailing address is a Post Office Box) 265 Hambley Boulevard

City Pikeville State KY Zip 41502 Telephone No. 606-444-7300

FEIN No. 27-2909495 Ownership/Control relationship to Permittee

Identify below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Brian Aug	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President	08-05-13	
Richard Boone	P.O. Box 1169, Pikeville, KY, 41502	Declined	Sr. Vice President CFO Treasurer	06-10-10 06-10-10 10-05-10	09-01-16 09-01-16 09-01-16
Richard Boone	P.O. Box 1169, Pikeville, KY, 41502	Declined	President CEO Director	09-01-16 12-30-16 11-03-16	
Elizabeth Branham	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President Controller Assistant Secretary	06-10-10 06-10-10 06-10-10	
Joseph Funk	P.O. Box 1169, Pikeville, KY, 41502	Declined	CEO	11-14-14	12-30-16
Joseph Funk	P.O. Box 1169, Pikeville, KY, 41502	Declined	President	11-14-14	09-01-16
Chad Hunt	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President	03-02-12	
Whitney Calvert Kegley	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President General Counsel Secretary	07-16-12 07-16-12 07-16-12	

Entity Name	Address	SS #	Title	Beginning Date	End Date
Scott Morris	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President-Finance	02-04-16	09-01-16
Scott Morris	P.O. Box 1169, Pikeville, KY, 41502	Declined	Vice President CFO Treasurer	09-01-16 09-01-16 09-01-16	
William L Tuorto	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Executive Chairman	09-01-16	
Rhino Energy LLC	P.O. Box 1169, Pikeville, KY, 41502	Not Applicable	Member Shareholder(100%)	06-10-10 06-10-10	
Bryan H Lawrence	410 Park Avenue, 19 th Floor, New York, NY 10022	Declined	Director	12-30-16	

Complete this item for each entity listed in the corporate structure.

Name of Entity Rhino Resource Partners LP

Mailing Address P.O. Box 1169

Street Address (if mailing address is a Post Office Box) 265 Hambley Boulevard

City Pikeville State KY Zip 41502 Telephone No. 606-444-7300

FEIN No. 27-2377517 Ownership/Control relationship to Permittee Member, Shareholder

NOTE: -if entity is a SOLE PROPRIETORSHIP, list owner

-if entity is a PARTNERSHIP, list all partners, including limited partners

-if entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar, and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Royal Energy Resources, Inc.	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	Shareholder (84.82%)*	03-17-16	12-30-16
Royal Energy Resources, Inc.	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	Shareholder (55.38%)*	12-30-16	
Rhino Resource Partners Holdings LLC	410 Park Avenue, 19 th Floor New York, NY 10022	Not Applicable	Member (35.36%)*	12-30-16	
Rhino GP LLC	P.O. Box 1169, Pikeville, KY, 41502	Not Applicable	Partner	10-05-10	
*The remaining ownership is a combination of publicly and privately owned – with no person or entity owning 10% or more					

Part V No. 1

A-3 Complete this item for each entity listed in the corporate structure.

Name of Entity Rhino GP LLC

Mailing Address P.O. Box 1169

Street Address (if mailing address is a Post Office Box) 265 Hambley Boulevard

City Pikeville State KY Zip 41502 Telephone No. 606-444-7300

FEIN No. 56-2558619 Ownership/Control relationship to Permittee General Partner

NOTE: -If entity is a **SOLE PROPRIETORSHIP**, list owner

-If entity is a **PARTNERSHIP**, list all partners, including limited partners

-If entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar; and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Brian Aug	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President	08-05-13	
Richard Boone	P.O. Box 1169, Pikeville, KY 41502	Declined	President	09-01-16	
Richard Boone	P.O. Box 1169, Pikeville, KY 41502	Declined	Director	11-03-16	
Richard Boone	P.O. Box 1169, Pikeville, KY 41502	Declined	Chief Executive Officer	12-30-16	
Elizabeth Branham	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President	10-05-10	
Elizabeth Branham	P.O. Box 1169, Pikeville, KY 41502	Declined	Controllor	10-05-10	
Elizabeth Branham	P.O. Box 1169, Pikeville, KY 41502	Declined	Assistant Secretary	10-05-10	
David Hanig	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	

Entity Name	Address	SS #	Title	Beginning Date	End Date
Douglas Holsted	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
Brian Hughs	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
Chad Hunt	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President	10-05-10	
Whitney Calvert Kegley	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President	07-16-12	
Whitney Calvert Kegley	P.O. Box 1169, Pikeville, KY 41502	Declined	Secretary	07-16-12	
Whitney Calvert Kegley	P.O. Box 1169, Pikeville, KY 41502	Declined	General Counsel	07-16-12	
Bryan H Lawrence	410 Park Avenue, 19 th Floor, New York, NY 10022	Declined	Director	12-30-16	
Scott Morris	P.O. Box 1169, Pikeville, KY 41502	Declined	Vice President	09-20-11	
Scott Morris	P.O. Box 1169, Pikeville, KY 41502	Declined	Chief Financial Officer	09-01-16	
Scott Morris	P.O. Box 1169, Pikeville, KY 41502	Declined	Treasurer	09-01-16	
Ronald Phillips	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
Michael Thompson	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
William Tuorto	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Director	03-17-16	
William Tuorto	56 Broad Street, Suite 2 Charleston, SC 29401	Declined	Chairman of the Board	03-17-16	
Royal Energy Resources, Inc.	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	Sole Member	3-17-16	

Complete this item for each entity listed in the corporate structure.

Name of Entity Rhino Resource Partners Holdings LLC

Mailing Address 410 Park Avenue, 19th Floor

Street Address (if mailing address is a Post Office Box)

City New York State NY Zip 10022

Telephone No. 212-515-2100

Ownership/Control relationship to Permittee Member, Shareholder

NOTE: -if entity is a SOLE PROPRIETORSHIP, list owner

-if entity is a PARTNERSHIP, list all partners, including limited partners

-if entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar, and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Yorktown Energy Partners VI LP	410 Park Ave, 19 th Floor, New York, NY 10022	20-1384906	Shareholder (3.73%)	12-22-16	
Yorktown Energy Partners VII LP	410 Park Ave, 19 th Floor, New York, NY 10022	20-5451317	Shareholder (51.86%)	12-22-16	
Yorktown Energy Partners VIII LP	410 Park Ave, 19 th Floor, New York, NY 10022	26-2754039	Shareholder (26.96%)	12-22-16	
Yorktown Energy Partners IX LP	410 Park Ave, 19 th Floor, New York, NY 10022	27-3125579	Shareholder (12.45%)	12-22-16	
Bryan H Lawrence	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	12-22-16	
W Howard Keenan Jr	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	12-22-16	
Bryan R Lawrence	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	12-22-16	

*The remaining 5% ownership is privately owned

Complete this item for each entity listed in the corporate structure.

Name of Entity E-Starts Money Company
 Mailing Address 56 Broad Street, Suite 2
 Street Address (if mailing address is a Post Office Box)
 City Charleston State SC Zip 29401 Telephone No. 843-900-7693
 FEIN No. 47-2787100 Ownership/Control relationship to Permittee Member, Shareholder

NOTE: -If entity is a SOLE PROPRIETORSHIP, list owner
 -If entity is a PARTNERSHIP, list all partners, including limited partners
 -If entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar, and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
William L Tuorto	56 Broad Street, Suite 2 Charleston, SC 29401	Not Applicable	Shareholder	01-13-15	

Complete this item for each entity listed in the corporate structure.

Name of Entity Yorktown Energy Partners IX LP

Mailing Address 410 Park Avenue, 19th Floor

Street Address (if mailing address is a Post Office Box)

City New York

State NY

Zip 10022

Telephone No. 212-515-2100

FEIN No. 27-3125579 Ownership/Control relationship to Permittee Member, Shareholder

NOTE: -if entity is a SOLE PROPRIETORSHIP, list owner

-if entity is a PARTNERSHIP, list all partners, including limited partners

-if entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar, and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Yorktown IX Company LP	410 Park Ave, 19 th Floor, New York, NY 10022	27-3125565	General Partner (1.5%)	10-05-10	
Bryan H Lawrence	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Limited Partner	10-05-10	
Bryan H Lawrence	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	10-05-10	
W Howard Keenan Jr	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Limited Partner	10-05-10	
W Howard Keenan Jr	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager Member	10-05-10 10-05-10	
Peter Leidel	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	10-05-10	
Tomas LaCosta	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	10-05-10	
Robert Signorino	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager Member	10-05-10 10-05-10	

This is a publicly traded entity – with no person or entity with 10% or more ownership

Complete this item for each entity listed in the corporate structure.

Name of Entity Yorktown IX Company LP
 Mailing Address 410 Park Avenue, 19th Floor
 Street Address (if mailing address is a Post Office Box)
 City New York State NY Zip 10022 Telephone No. 212-515-2100
 FEIN No. 27-3125565 Ownership/Control relationship to Permittee Member, Shareholder

NOTE: -If entity is a SOLE PROPRIETORSHIP, list owner
 -If entity is a PARTNERSHIP, list all partners, including limited partners
 -If entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar, and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Yorktown IX Associates LLC	410 Park Ave, 19 th Floor, New York, NY 10022	27-3125534	General Partner (0.5%)	10-05-10	
Bryan H Lawrence	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Limited Partner	10-05-10	
W Howard Keenan Jr	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Limited Partner	10-05-10	

This is a publicly traded entity – with no person or entity with 10% or more ownership

Complete this item for each entity listed in the corporate structure.

Name of Entity Yorktown IX Associates LLC

Mailing Address 410 Park Avenue, 19th Floor

Street Address (if mailing address is a Post Office Box)

City New York State NY Zip 10022 Telephone No. 212-515-2100

FEIN No. 27-312534 Ownership/Control relationship to Permittee Member, Shareholder

NOTE: -If entity is a SOLE PROPRIETORSHIP, list owner

-If entity is a PARTNERSHIP, list all partners, including limited partners

-If entity's legal structure is other than a sole proprietorship or partnership, list all owners or stockholder's owners ten percent (10%) or more or any class of voting stock; all officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar, and for limited liability companies, all members and managers.

Entity Name	Address	SS #	Title	Beginning Date	End Date
Bryan H Lawrence	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager (36.32% Owner)	10-05-10	
W Howard Keenan Jr	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager (23.74% Owner)	10-05-10	
Peter Leidel	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager (21.36% Owner)	10-05-10	
Tomas LaCosta	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	10-05-10	
Robert Signorino	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	10-05-10	
Bryan R Lawrence	410 Park Ave, 19 th Floor, New York, NY 10022	Declined	Manager	09-01-16	
No other person or entity has 10% or more ownership					

R645-301-356 Revegetation: Standards for Success

R645-301-356.100 Success of Revegetation

The success of revegetation will be judged on the effectiveness of the vegetation for post-operation land use and the standards outlined in Section 353. Success of the revegetation effort in the permit area will be determined by use of and in comparison, to data obtained from the reference area shown on Plate 3-1.

Final comparisons will involve random sampling of both the reference area and the revegetated site. All sampling will be done in the late summer to insure maximum plant growth. Estimates of ground cover and density of woody plant species will be made for the revegetated areas and the reference areas using the following methods:

- Quantitative and qualitative data will be collected on the reclaimed and reference areas during years 4, 6, 9 and 10 of the 10 year reclamation liability period. Information to be recorded during field surveys will include not only vegetation data but also observations concerning recent precipitation, slope, exposure, wildlife use, and other appropriate notes
- Bi-directional random placement of sampling plots will be used to provide unbiased accuracy of the data compiled.
- Cover estimates will be made using ocular methods with meter square quadrats.
- Density of woody plant species will be estimated using the point quarter distance method (Cottam and Curtis, 1956). In this method, random points will be placed on the sample sites and measured into four quarters. The distances to the nearest woody plant species will then be recorded in each quarter. The average point-to-individual distance will be calculated as the square root of the mean area per individual.
- Sampling adequacy for cover and woody species density will be sufficient to ensure that the required statistical confidence is achieved. This will be evaluated using formulas from Snedocor and Cochran (1980), ensuring that 80% of the samples are within 10% of the true mean for the shrub communities of the area. Student's t-tests will be employed to compare the proposed disturbance and reference areas of all sites for cover and woody plant species density.
- Jaccard's Community Coefficients will be used to make species composition comparisons.

TABLE 3-1

Revegetation Seed
 Mixture

Scientific Name	Common Name	Application Rate (pis lb/acre)
Shrubs		
<i>Artemisia tridentata</i>	Wyoming big sagebrush	1.0
<i>Atriplex canescens</i>	Fourwing saltbush	1.0
Forbs		
<i>Acillea millefolium</i>	Western yarrow	0.01
<i>Cleome serrulata</i> Pursh	Rocky Mountain Beeplant	1.0
<i>Helianthus annuus</i>	Annual sunflower	1.0
<i>Linum lewisii</i>	Lewis flax	1.0
<i>Penstemon palmeri</i>	Palmer's penstemon	0.5
<i>Sphaeraicea coccinea</i>	Scarlet globemallow	0.5
Grasses		
<i>Agropyron dasystachyum</i>	Thickspike wheatgrass	1.0
<i>Hilaria jamesii</i>	Galleta	0.5
<i>Leymus cinereus</i>	Great Basin wildrye	0.5
<i>Oryzopsis hymenoides</i>	Indian ricegrass	1.0
<i>Poa sandbergii</i>	Sandberg bluegrass	1.0
TOTAL (pis lb/ac)		10.01