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# Phoenix Environmental LLC

P.O. Box 1856

2113 French Dr.

Hobbs, NM 88241-1856

Office 505-391-9685

Fax 505-391-9687

February 5, 2007

Bold Energy, LP 415 W. Wall, Suite 500 Midland, Texas 79701

Attn: Mr. Donny Money

# RE: Work Plan to clean up Antelope Ridge Unit #12 reserve drilling pit located in Unit Letter A, Sec 33 T23S R34E of Lea County, New Mexico

Dear Mr. Money:

Phoenix Environmental, LLC (Phoenix) would like to take this time to thank you and Bold Energy, LP for the opportunity to provide our professional services for the site remediation of the above listed site.

If you have any questions and/or need more data in regards to this project please call 505-631-8314 at any time.

Sincerely,

Allen Hodge, REM VP Operations Phoenix Environmental, LLC



SECTION 33, T23S, R34E of Lea County, NM GPS Reading of 32°-15'-56.6" N & 103°-28'-7.4" W API #30-025-37625

# Reserve Drilling Pit Closure Report

## RECEIVED

DEC 0 9 2008

HOBBSOCD

Presented to:

# Bold Energy, LP 415 W. Wall, Ste. 500

415 W. Wall, Ste. 500 Midland, Texas 79701

Prepared by:

**Phoenix Environmental, LLC.** P.O. Box 1856

Hobbs, New Mexico 88241



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#### **IMPORTANT NOTICE:**

Phoenix Environmental, LLC., with offices at 2113 French Drive, Hobbs, New Mexico 88241 (the Company), has prepared this project report for remediation of the Antelope Ridge Unit #12, to the best of its ability. No warranty, expressed or implied, is made or intended. The report was prepared for Bold Energy, LP, with offices at 415 W. Wall, Suite 500, Midland, Texas 79701, (the Client). All information disclosed in this plan is for internal purposes only and is considered confidential. By accepting this document, the recipient agrees to keep confidential the information contained herein. The recipient further agrees not to copy, reproduce or distribute to any third party this project plan in whole or in part, without express written permission from the Company or Client.



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**SECTION I** 

#### Summary/Overview

The Antelope Ridge Unit #12 drilling pit site should be completed and remediated in accordance with the standards of the NMOCD. It is our understanding that any potential contamination from the site was a result of activities associated with the drilling and production of oil and gas.

The potential contaminates of concern are mid- to high-level concentrations of salt water, drilling mud, and drilling fluids that were left after drilling operations were completed.

The land's primary use is domestic pasture for ranching and the production of oil and gas.

The ground water depth data available for this area showed the depth to ground water to be in the 300' range BGS.

Pursuant to the standards of the NMOCD, the clean up level for this site will be at <5,000ppm of TPH, <50ppm for BTEX and Chlorides (Cl) less than <250ppm.

The following scope of work was based on data from our site visit, and the requirements of the NMOCD for site clean up.

### Scope of Work for Entombment of Impacted Soils

**NOTE:** For the purpose of this work plan, Phoenix will estimate that there is approximately 2,500cyds of impacted soils and mud at the site that needs to be addressed for site closure.

- 1. Phoenix will call One-Call for line spot clearance before any excavation at the site is started.
- 2. Phoenix will mobilize equipment and personnel necessary to start and complete the site remediation as required, getting the site back into compliance.
- 3. The site will be cleared of brush and debris, and a staging area will be set up for site control and safety.



- 4. Phoenix will move the stockpile of soils on the backside of the pits back to allow room to excavate the tomb to hold the contents of the pit. While leaving the top of the impacted soils at a minimum of three feet below grade, the size of the tomb will need to be 150x30x20 and will yield an estimated 3,333cyds of total material and will hold an estimated 2,700cyds of impacted soils.
- 5. Once the tomb area has been excavated, it will be lined with 12mil HDPE bottom and a 20mil top with enough to fold back over the top of the impacted soils before backfilling.
- 6. Impacted soils at the site will then be excavated and transported to the lined tomb area until the top of the impacted soils are at a minimum of three feet below grade.
- 7. Phoenix will field screen the site during the excavation. Once the TPH and CI have dropped below clean up requirements, final samples will be taken and sent to a third party lab for analysis.
- 8. Once all of the remediation criteria have been met for site closure and compliance, the site will be backfilled with clean material from the site. The site will be contoured with a slight crown to prevent the ponding of any water and reseeded.
- 9. Once all of the closure criteria have been met, a final closure report will be prepared by Phoenix. This report will include a summary of remediation operations, findings on-site, lab analysis, site maps, and project photos.

If you have any questions and/or need more data in regards to this project, please call 505-631-8314 at any time.

Sincerely,

Allen Hodge, REM VP Operations Phoenix Environmental LLC







**SECTION II** 

### **Project Overview**

Phoenix Environmental, LLC. (Phoenix) was contracted for the closure of the reserve drilling pit at Antelope Ridge Unit #12, belonging to Bold Energy, LP. Antelope Ridge #12 is located at Sec 33 T 23S, R 34E. The GPS reading is  $32^{\circ}15'56.6"N$  and  $103^{\circ}28'7.4"W$  with an elevation of 3481 feet above sea level. The land, in and around the site, is primarily used as pasture for cattle and the production of oil and gas. The pit site is located on the north side of the location.

It appeared that in excess of 3,500 cubic yards of cutting, drilling mud, and soil were impacted in the pit area with the dimensions of 150 feet by 150 feet at an approximate depth of 6 feet.

The potential contaminates of concern were mid- to high-level concentrations of salt water, drilling mud, cuttings, and fluids that were left after drilling operations were completed.

The ground water depth data available from the State of New Mexico Engineers' office showed the vertical depth to the top of water to be in the 300 feet range below surface.

Clean backfill was brought in to compact and fill in the excavated area. The area was contoured with a slight crown to prevent ponding of water from future rains.

Pursuant to the NMOCD guidelines for clean up of unlined surface impoundments, the clean up level for this site was <5,000 ppm for TPH (Total Petroleum Hydrocarbons) and <50 ppm for BTEX (Benzene, Toluene, Ethylbenzene, and Xylene). The NMOCD also asked for Cl (Chlorides) be returned back as close to background levels as possible or <250 ppm.

### **Findings and Conclusion**

The bottom of the excavation (approximately 6 feet) was tested for TPH, BTEX & Chlorides to make certain that the target limits had been met prior to backfilling and compaction for closure. The site cleaned up well with vertical depth of impact at 6 feet, not impacting groundwater. All of the final lab analyses were below the NMOCD guidelines for unlined surface impoundments (refer to attached laboratory reports for actual levels).

The site was backfilled and compacted with clean backfill and contoured with a crown back to grade to prevent ponding on the area. The site was reseeded and should vegetate well with upcoming rains.



### **Chronology of Operations**

- January 24, 2007 Phoenix mobilized on-site, with the first order on the agenda was a tailgate safety meeting to review any potential safety concerns of the site and to cover the clean up operations. (Please note that a daily safety meeting is the first order of the day before any work begins on site). New Mexico One Call was notified of the intent to finish the pit closure. A dozer was used to clear the area of vegetation and debris around the pit and the staging area.
- 2. February 2, 2007 Crew began digging a pit for deep burying reserve pit contents.
- 3. February 5-6, 2007 Crew continued to dig deep bury pit for reserve pit contents.
- 4. February 7, 2007 Crew finished digging deep bury pit. The bottom was cleaned and dressed to prevent damage to liner.
- 5. February 8, 2007 Deep bury pit lined with 12mil HDPE bottom and a 20mil top. The crew started transferring the contents of the reserve drill pit to the deep bury pit.
- 6. February 9, 2007– Crew continued to transfer drilling mud from reserve pit to the deep bury pit.
- 7. February 12-13, 2007 Crew continued transferring contents from reserve drill pit to the deep bury pit.
- 8. February 16, 2007 Crew finished transferring drilling mud from reserve drill pit to deep bury pit. The bottoms of the reserve drilling pit was cleaned and final samples were taken and sent for analysis to a third party laboratory for TPH, BTEX and Chlorides for final verification of the limits met. (Please refer to attached reports, pages 8 thru 20 pages of this report.)
- 9. February 17-21, 2007 The deep bury pit was capped with a 20mil liner top and backfilling was done to complete coverage of the deep bury pit. Final contouring and compaction was implemented to return the site back to grade with a slight crown to prevent ponding.



### **Certification**

The following Phoenix Environmental personnel have reviewed this report and verified that to the best of their knowledge the contents are true and correct.

.... ... . . . . . . .

11 Annunum annunum Allen Hodge, REM Ū STERED ..... Senior Project Manager MUNUTION EVE MAN Phoenix Environmental, LLQ HOU , iÍ REM 7095 Signature: NREP UNIT Registered Environmental Manager #7096 National Registry of Environmental Professionals 14<sup>14</sup> 









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Phoenix Environmental, LLC. P.O. Box 1856 – 2113 French Drive Hobbs, New Mexico 88241 505.391.9685 – FAX: 505.391.9687

## SOIL ANALYSIS REPORT

Date: 3/5/07 Client: Bold Energy LP Supervisor: Allen Hodge Sample Matrix: Soil Facility: Antelope Ridge #12 Test Method: EPA 325.3 Order No.: Donny Money Sample Received: Intact on site

<u>Sample</u>	<u>CL (ppm)</u>	<u>Depth (feet)</u>	<u>Location</u>
#1	60	6′	Southeast Outside Leg
#2	<50	6′	Southwest Outside Leg
#3	<50	6′	Inside Leg
#4	<50	0.5′	Background
#5	220	6′	Northeast Outside Leg
#6	230	6′	Northwest Outside Leg

**COMMENTS:** These samples are field screen samples taken to confirm regulator limits prior to final lab analysis.

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Assaigai Analytical Laboratories, Inc.

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# **Certificate of Analysis** All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

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**SECTION IV** 







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Beginning view of reserve drilling pit



Beginning view of reserve drilling pit



Excavation of deep bury pit



Deep bury pit (looking south)





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Excavated deep bury pit (looking north) ready for 12mil liner





Deep bury pit lined with 12mil HDPE liner



Deep bury pit with mud from drilling pit



Deep bury pit with a 20mil cap





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Drilling pit with contents removed (looking north)



Dressed drilling pit and deep bury pit (looking northwest)



Drilling pit with contents removed (looking west)



FINAL - Seeded drilling pit and deep bury pit (looking east)

