

CONSOL Mining Company LLC.  
1000 CONSOL Energy Drive  
Canonsburg, PA 15317  
(724) 485-4267

December 12, 2014

C/015/0007  
Received 12/30/2014  
Task ID #4771

Daron Haddock  
Utah Division of Oil, Gas and Mining  
Coal Program  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Re: Hidden Valley Mine Permit ACC/015/0007  
MRP midterm review additional information request task id #4703

Dear Mr. Haddock:

Please consider this a response to the Divisions memo and additional information request dated 11/13/14. Enclosed please find 3 copies including an executed C1 form, C2 form and revised pages. A cd-rom has been included with the submittal in pdf format.

If you have any questions concerning this request, please contact me at (724) 485-4267.

Sincerely,

  
Kerry Goodballet P.E.  
Director of Permitting – Coal

Enclosure

## APPLICATION FOR COAL PERMIT PROCESSING

Permit Change  New Permit  Renewal  Exploration  Bond Release  Transfer

**Permittee:** CONSOL Mining Company LLC

**Mine:** Hidden Valley Mine

**Permit Number:** 015/0007

**Title:** 2014 Mid Term Review Task id 4703

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

Mid Term Review deficiency responses add info

12/14

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

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

**Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you.** (These numbers include a copy for the Price Field Office)

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.

Kerry Goodballet  
Print Name

Kerry Goodballet, Dir Coal Permitting, 12-9-14  
Sign Name, Position, Date

Subscribed and sworn to before me this 9 day of DECEMBER, 2014

Jane M Young  
Notary Public

My commission Expires: \_\_\_\_\_, 20\_\_\_\_ }  
Attest: State of PENNSYLVANIA } ss:  
County of WASHINGTON

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Jane M. Young, Notary Public  
Cecil Twp., Washington County  
My Commission Expires June 20, 2017  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

**For Office Use Only:**

**Assigned Tracking Number:**

**Received by Oil, Gas & Mining**



### UMC 817.133 Postmining Land Use

The original permit contemplated reclaiming approximately 6.7 acres of disturbed land ~~will be fully reclaimed. The work schedule calls for reclamation work to begin~~ in the fall of 1986 with completion by December 31, 1986. The entire 960 acres (section 18, all and section 17, W1/2) is currently under Permit ACT 015/0007. CONSOL currently holds reclamation bond on this area. CalMet, the applicant under the original interim permit, began initial construction of an underground coal mine in the late 1970's. Approximately 6.7 acres of surface was affected by CalMet during construction of a haul road into the canyon, a buried culvert to direct unaffected surface drainage under the affected area, a sediment pond to control affected surface runoff, and four exploratory adits into both the A seam and CD Seam (CalMet called this the B seam). Topsoil was not required to be removed under the original permit. The mine never reached full production and CalMet began reclamation in 1987 under a permanent program Mining and Reclamation Plan approved by the Division. Consol purchased the property in 1995 and assumed the mining permit, bond and reclamation liability. Consol was in the process of completing final reclamation on the site until the decision was reached to investigate the mineability of the A seam. The majority of the reclamation work was completed then with the exception of the "A" and "B" seam benches. With the approval of Amendment 97B on September 22, 1997, the B seam side was reclaimed with the "A" seam side to follow a few years later, once vegetative success was demonstrated. Per Emery Deep mine's 2011 annual report and Hidden Valley mid-term review deficiency task 4604, CONSOL will initiate discussions with DOGM regarding development of a reclamation strategy for the remaining disturbed portions of the Hidden Valley Mine. With market changes in mid-2005, CONSOL requested that the reclamation of the "A" side seam bench be postponed. Submittal in 2006 of a Minor Exploration Permit for exploratory drilling and a Major Exploration Permit to re-open both "A" and "B" adits for test coal shipments followed with further requests to postpone reclamation due to the possibility of opening a large scale underground mine at the site. All water monitoring and sediment control maintenance have remained functional. At this time, CONSOL continues to evaluate and market this reserve along with the adjacent properties and will continue to request reclamation extensions through the annual review process. CONSOL continues to own in fee the 480 acres adjacent to the north side of the present permit boundary.

#### Borehole Reclamation:

During the exploration phase of the Minor Exploration Permit (MEP) in 2006/2007, CONSOL drilled nine exploration boreholes. Upon completion of down-hole procedures, six of the nine exploration bore holes were reclaimed per MEP requirements. The remaining three boreholes (HV-06-01, HV-06-02 and HV-06-03) were completed as groundwater monitoring wells to supply background information for the contemplated Major Exploration Permit and subsequent Major Revision to this MRP. During final reclamation each drill hole will be sealed with cement from the bottom of the hole to ground level. A brass monument marker will be placed in the top of the cement surface plug with the hole number.

Revised 12/2014

All areas disturbed under this drilling program that were not previously disturbed (e.g., roads) will be regraded after drilling to the approximate original contour during reclamation. All existing dirt roads will be left in place at serviceability at least equal to that which existed prior to drilling. During reclamation, soils compacted by vehicle and equipment traffic will be loosened to promote revegetation. Final grading will be along the contour to control erosion. After soils have been loosened the impacted area will be reseeded with the following seed mix:

<u>Common Name</u>	<u>Scientific Name</u>	<u>Pounds Pure Live Seed/Acre</u>
<u>Indian ricegrass</u>	<u><i>Oryzopsis hymenoides</i></u>	<u>3.0</u>
<u>Alkali sacaton</u>	<u><i>Sporobolus airoides</i></u>	<u>0.5</u>
<u>Galleta hiliaria</u>	<u><i>Hilaria jamesii</i></u>	<u>2.5</u>
<u>Western wheatgrass</u>	<u><i>Agropyron smithii</i></u>	<u>3.0</u>
<u>Winterfat</u>	<u><i>Eurotia lanata</i></u>	<u>4.0</u>
<u>Fourwing saltbush</u>	<u><i>Atriplex canescens</i></u>	<u>4.0</u>
<u>Desert globemallow</u>	<u><i>Sphaeralcea ambigua</i></u>	<u>0.5</u>
<u>Blueleaf aster</u>	<u><i>Aster laevis</i></u>	<u>0.5</u>
<u>Sand dropseed</u>	<u><i>Sporobolus cryptandrus</i></u>	<u>0.25</u>
<u>Castle valley clover</u>	<u><i>Atriplex gardneri (var. cuneata)</i></u>	<u>4.0</u>
<u>Black sagebrush</u>	<u><i>Artemesia nova</i></u>	<u>0.25</u>
<u>Mat saltbush</u>	<u><i>Atriplex corrugate</i></u>	<u>4.0</u>
<u>TOTAL</u>		<u>26.5</u>

Seed will be placed by broadcasting. Following placement of seed, the soil will be lightly raked to cover the seed.

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**UMC 785.17 (b)(2, 6, 9); UMC 823.11 (c); UMC 823.14; UMC 823.15 Prime Farmland**

Prime Farmland was not designated in the permit and does not exist within the permit area. All the lands in the permit area are undeveloped.

Inserted 10/2014

Emery). In and adjacent to the mine, four water wells were completed by Soldier Creek Coal Company for industrial use. Water rights were filed and approved for these wells (App #47409). Water analyses from these wells shows the water quality to be good. TDS concentrations ranged from 610 to 850 mg/l with no elevated metals concentrations. The ground waters, like the surface waters, are dominated by sodium and sulfate ions.

During the exploration phase of the Minor Exploration Permit (MEP) in 2006/2007, CONSOL drilled nine exploration boreholes. Upon completion of down-hole procedures, six of the nine exploration bore holes were reclaimed per MEP requirements. The remaining three boreholes (HV-06-01, HV-06-02 and HV-06-03) were completed as groundwater monitoring wells to supply background information for the contemplated Major Exploration Permit and subsequent Major Revision to this MRP. During final reclamation each drill hole will be sealed with cement from the bottom of the hole to ground level. A brass monument marker will be placed in the top of the cement surface plug with the hole number. Refer to Plate IVa, Hidden Valley Drill Hole Locations and pages CH III pages 45b, for locations.

**TABLE 1**

Summary of Estimated Drill Hole Locations and Depths<sup>(a)</sup>

<u>Drill Hole Number</u>	<u>Northing</u>	<u>Easting</u>	<u>Approx. Elev. (ft)</u>	<u>Estimated Depth (ft)</u>
<u>HV-06-01*</u>	<u>2,058,903</u>	<u>175,945</u>	<u>6006</u>	<u>447</u>
<u>HV-06-02*</u>	<u>2,057,873</u>	<u>173,806</u>	<u>6063</u>	<u>492</u>
<u>HV-06-03*</u>	<u>2,060,829</u>	<u>177,587</u>	<u>6041</u>	<u>430</u>
<u>HV-06-04**</u>	<u>2,060,671</u>	<u>175,548</u>	<u>6048</u>	<u>411</u>
<u>HV-06-05**</u>	<u>2,062,095</u>	<u>173,298</u>	<u>6164</u>	<u>437</u>
<u>HV-06-06**</u>	<u>2,062,970</u>	<u>177,141</u>	<u>6119</u>	<u>379</u>
<u>HV-06-07**</u>	<u>2,063,089</u>	<u>175,356</u>	<u>6199</u>	<u>437</u>
<u>HV-06-08**</u>	<u>2,064,482</u>	<u>177,570</u>	<u>6080</u>	<u>254</u>
<u>HV-06-09**</u>	<u>2,065,102</u>	<u>176,411</u>	<u>6198</u>	<u>340</u>

(a) Total estimated depths include 30 feet of drilling beneath target seam floor.

(\*) Completed as Ground Water monitoring wells per Minor Exploration Permit in 2006/2007

(\*\*) Reclaimed in 2007 per Minor Exploration Permit requirements

Revised 10/2014

## 5.0 Consequences of Reclamation Activities

This sub-section provides a general description of the reclamation activities and their consequences and impacts.

### 5.1 Description of Reclamation Plan

The reclamation plans for the Hidden Valley mine call for reclamation of the portal pad area and restoration of the portal access road. The proposed plans are:

1. Removal of the 48" culvert for the ephemeral drainage under the pad and at the road crossing and the 18" culverts from the portal bench terraces above the A and B seams to Ivie Creek, regrading of the site, and restoration of the ephemeral channel to convey water to Ivie Creek.
2. Removal of the sediment pond discharge structures and regrading of the pond embankments and A-seam pad to establish and ensure adequate drainage for the site.

Inserted 10/2014

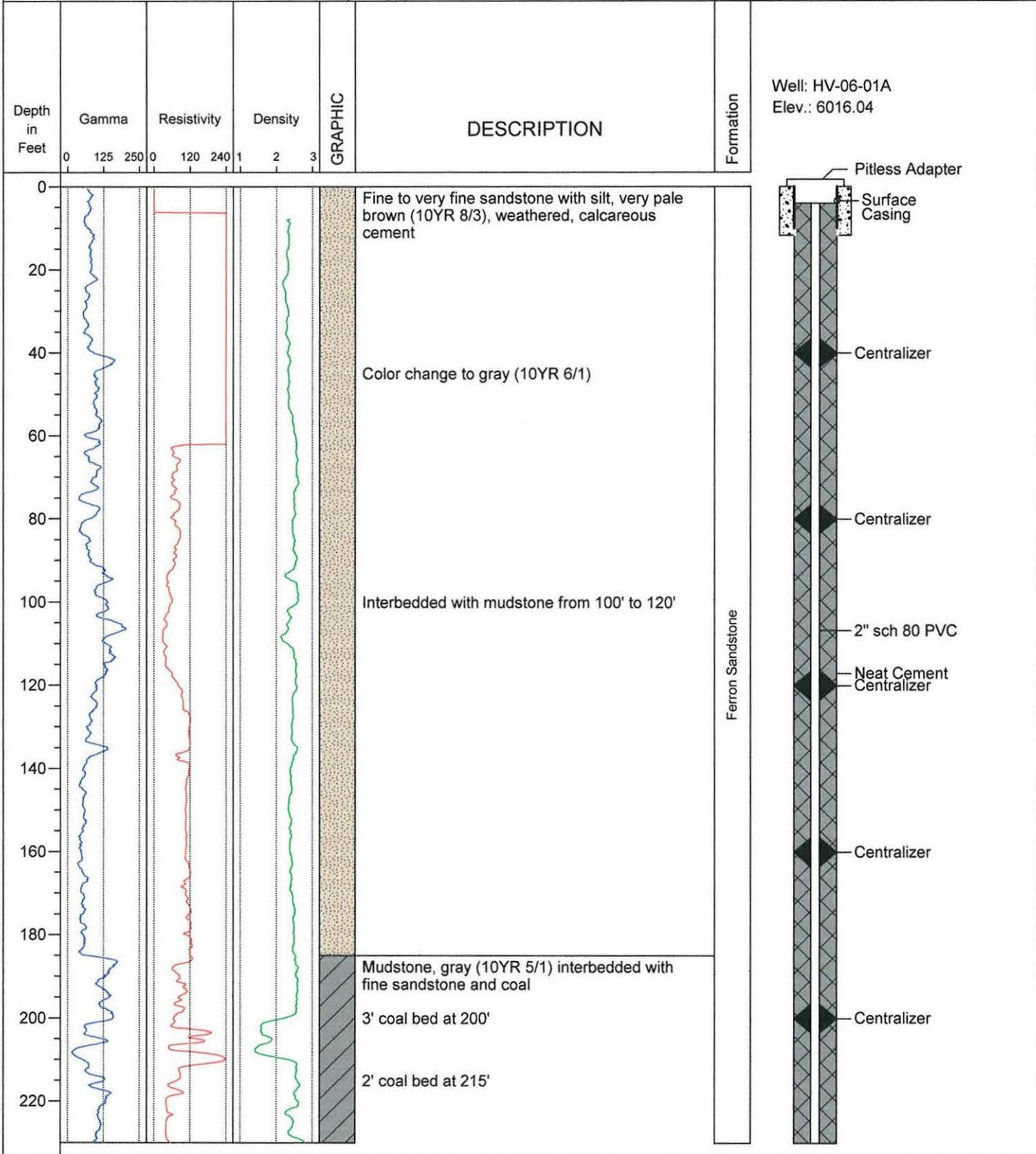


# LOG OF BORING HV-06-01

(Page 1 of 2)

Consol Energy Inc.  
Consolidation Coal Company  
Hidden Valley Exploration Drilling

Date Started : 09-27-06      Logged By : H. Windecker  
 Date Finished : 10-13-06      Checked By :  
 Boring Location : 6737668.74 N 1699170.81 E (NAD 83, State Plane)  
 Surface Elevation : 6016.40 (brass cap), 6016.04 (ground)



04-09-2007 G:\UC\0670\HV-06-01\Geo Log HV-06-01.bor



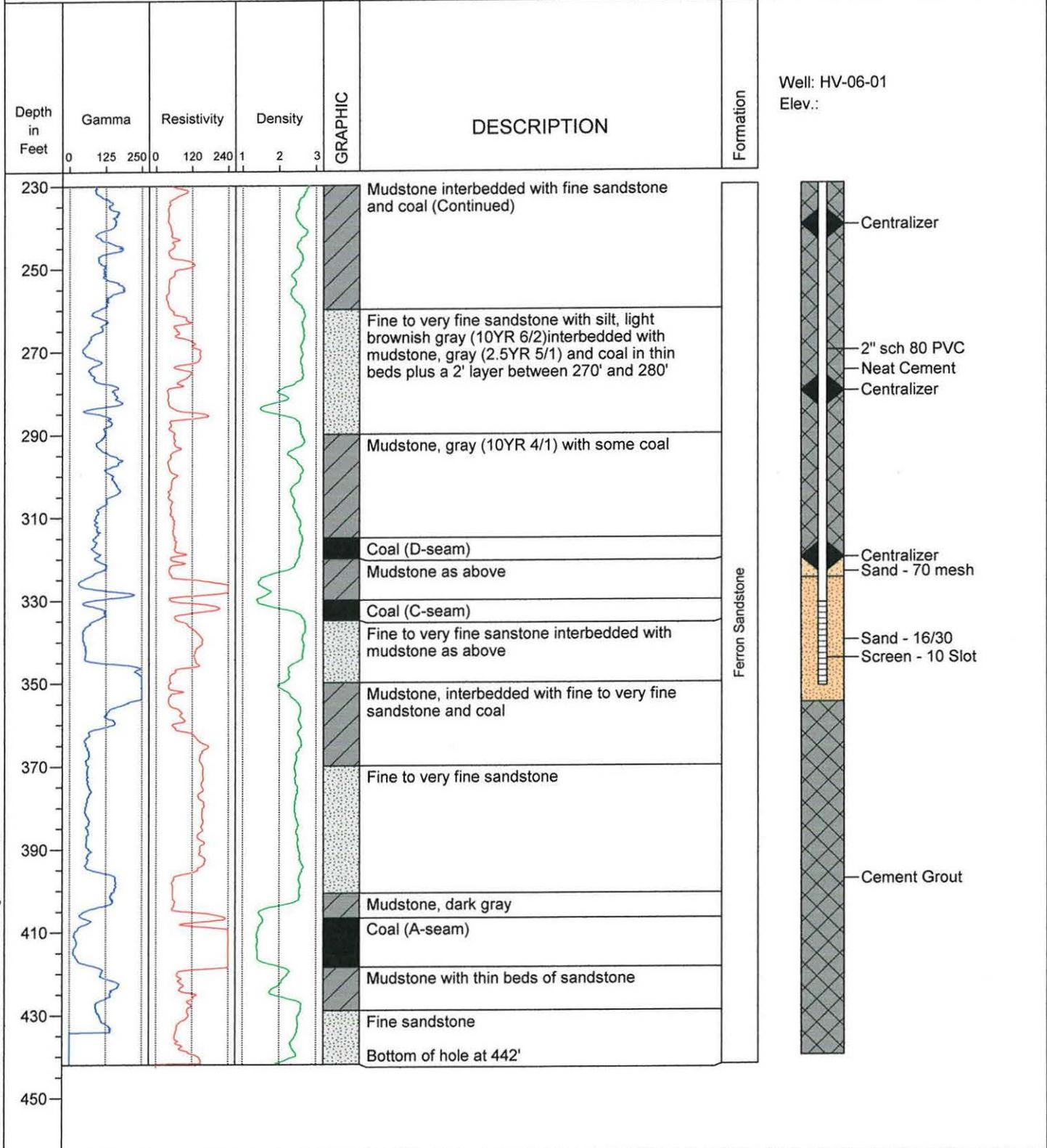
# LOG OF BORING HV-06-01

(Page 2 of 2)

Consol Energy Inc.  
Consolidation Coal Company  
Hidden Valley Exploration Drilling

Date Started : 09-27-06  
Date Finished : 10-13-06  
Boring Location :  
Surface Elevation :

Logged By : H. Windecker  
Checked By :



04-02-2007 G:\UC106701HV-06-01\Geo Log HV-06-01.bor

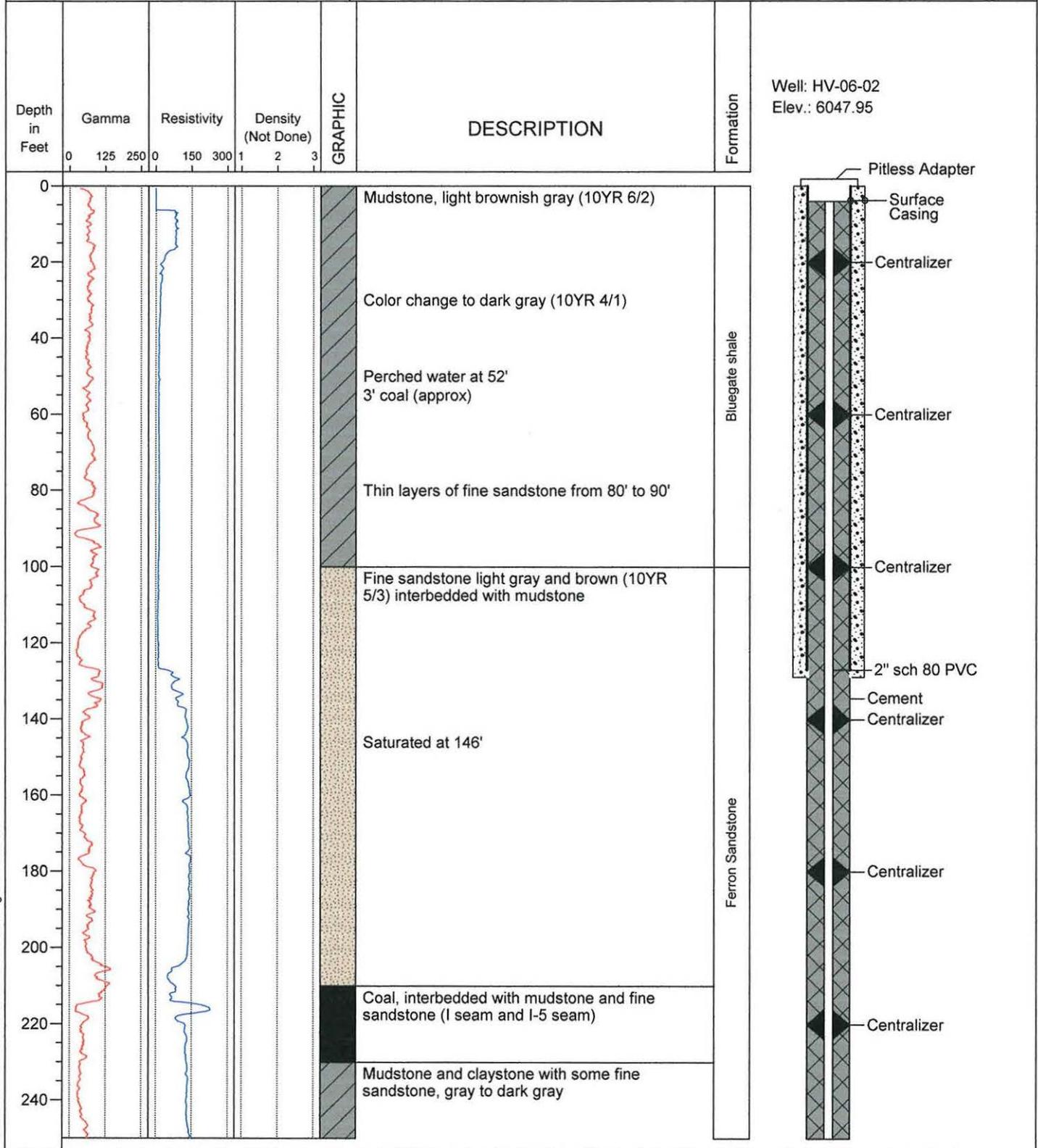


# LOG OF BORING HV-06-02

(Page 1 of 2)

Consol Energy Inc.  
Consolidation Coal Company  
Hidden Valley Exploration Drilling

Date Started : 12-07-06      Logged By : H. Windecker  
Date Finished : 1-08-07      Checked By :  
Boring Location : 6735468.74 N 1698059.40 E (NAD 83, State Plane)  
Sample Interval : 10'  
Surface Elevation : 6048.49 (brasws cap), 6047.95 (ground)



04-09-2007 G:\UC106701\HV-06-02\Geo Log HV-06-02.bor



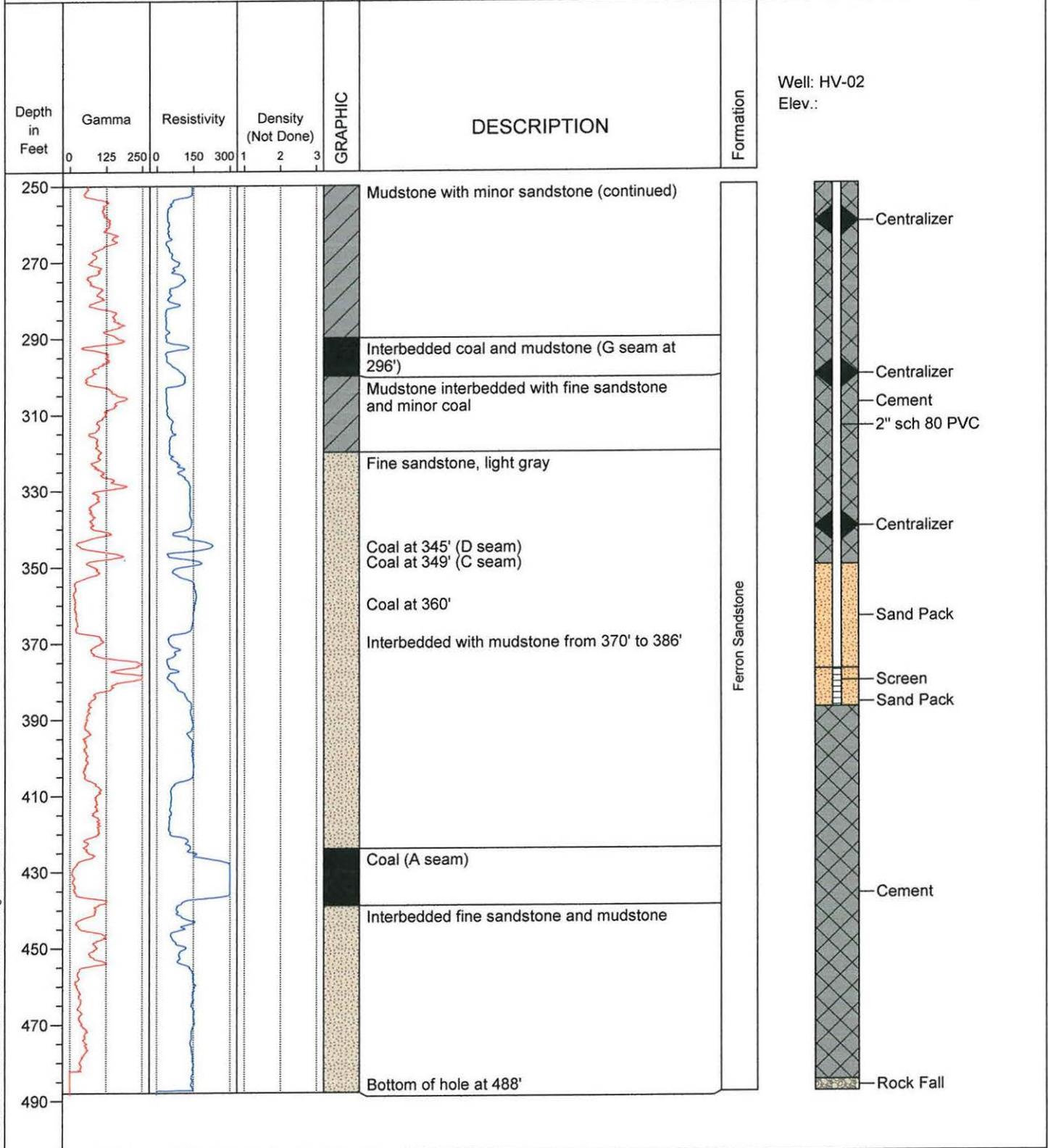
# LOG OF BORING HV-06-02

(Page 2 of 2)

Consol Energy Inc.  
Consolidation Coal Company  
Hidden Valley Exploration Drilling

Date Started : 12-07-06  
Date Finished : 1-08-07  
Boring Location :  
Sample Interval : 10'  
Surface Elevation :

Logged By : H. Windecker  
Checked By :



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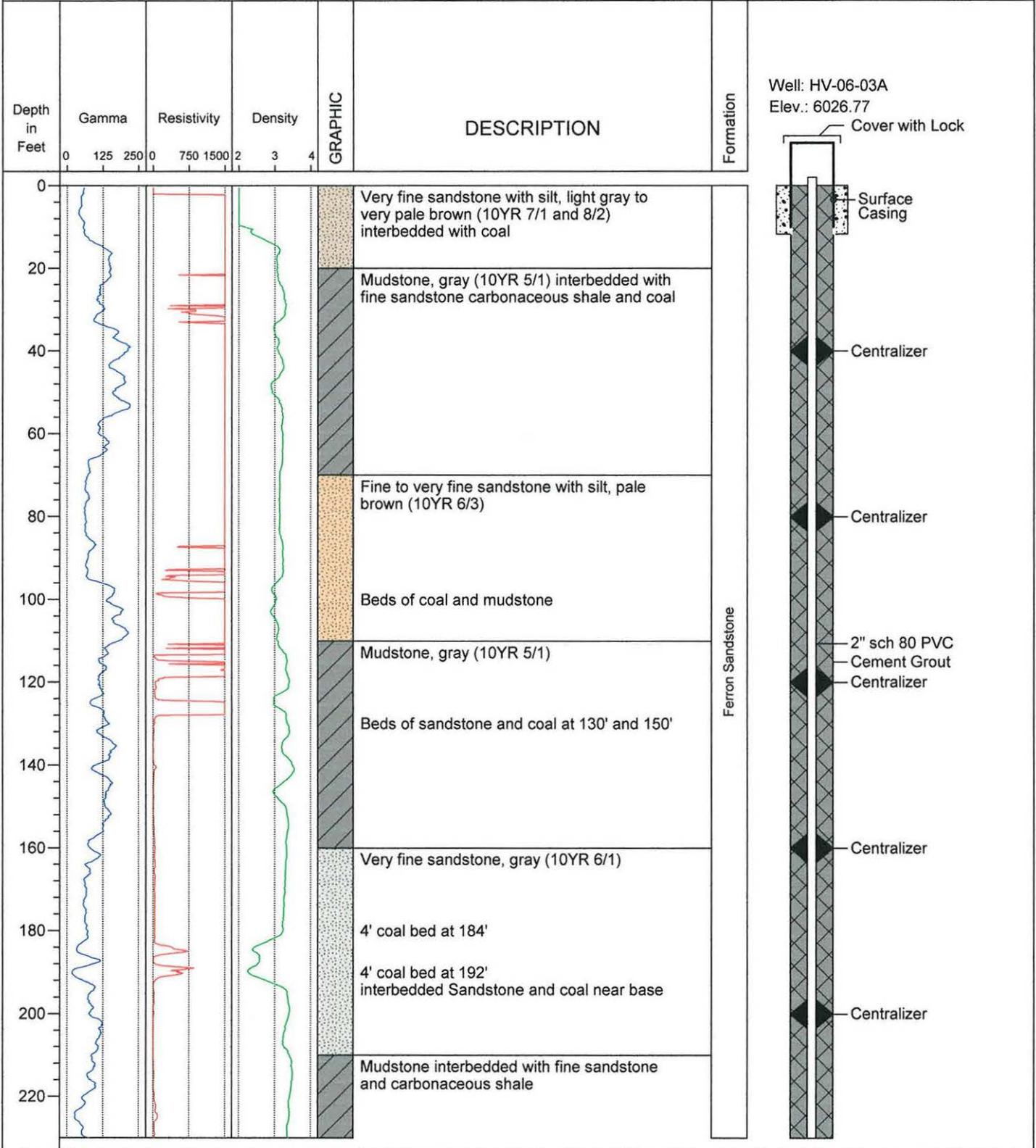


# LOG OF BORING HV-06-03

(Page 1 of 2)

Consol Energy Inc.  
Consolidation Coal Company  
Hidden Valley Exploration Drilling

Date Started : 11-05-06      Logged By : H. Windecker  
Date Finished : 11-10-06      Checked By :  
Boring Location : 6739311.86 N 1700991.48 E (NAD 83, State Plane)  
Surface Elevation : 6027.57 (brass cap), 6026.77 (ground)



04-09-2007 G:\UC\1067\01\HV-06-03\Geo Log HV-06-03.bor



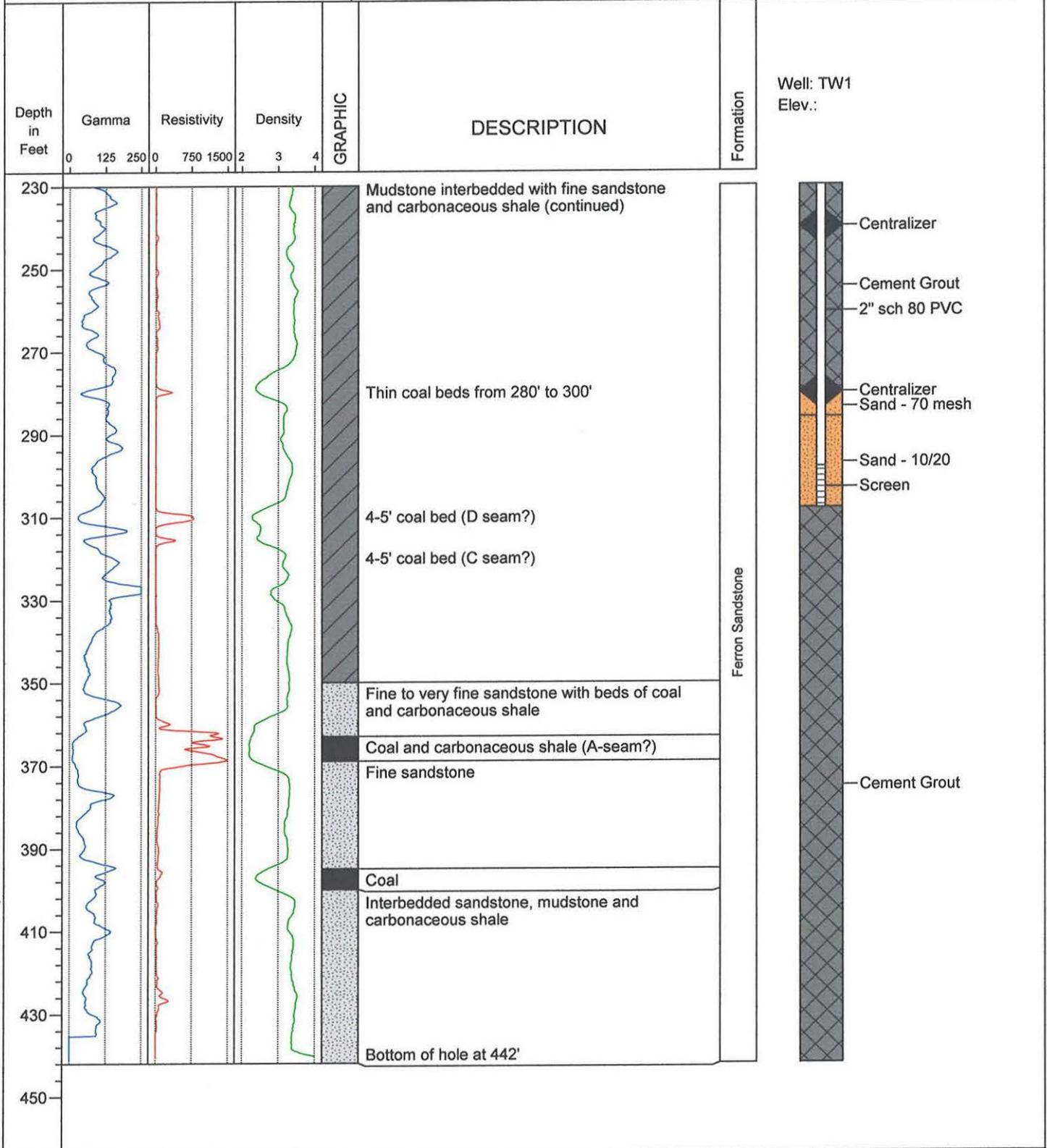
# LOG OF BORING HV-06-03

(Page 2 of 2)

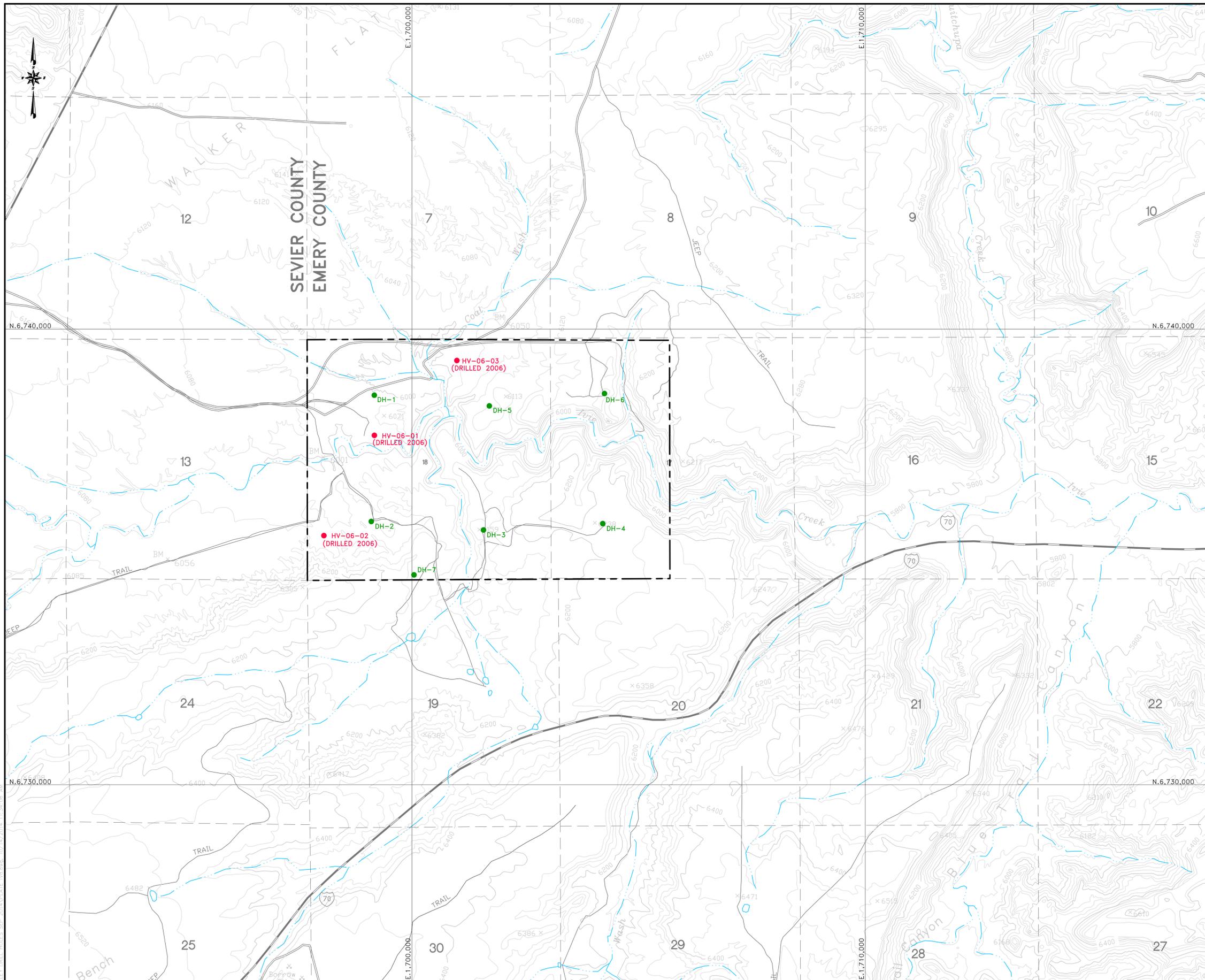
Consol Energy Inc.  
Consolidation Coal Company  
Hidden Valley Exploration Drilling

Date Started : 11-05-06  
Date Finished : 11-10-06  
Boring Location :  
Surface Elevation :

Logged By : H. Windecker  
Checked By :



04-02-2007 G:\UC\10670\1\HV-06-03\Geo Log HV-06-03.bor



**LEGEND**

ACT 015/007 PERMIT BOUNDARY

● HV-06-08

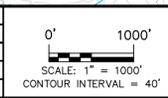
● DH-1

**BASE MAP:**  
 U.S.G.S. 7.5 MINUTE QUADRANGLE'S, EMERY WEST 1968,  
 EMERY EAST 1968, PHOTO REVISED 1978,  
 MESA BUTTE 1968, PHOTO REVISED 1978,  
 WALKER PLATE 1965, PHOTO REVISED 1978.

**COORDINATE SYSTEM:**  
 STATE PLANE COORDINATES,  
 NAD 83 CONUS  
 ZONE 12N - UTM, CENTRAL - US FEET  
 VERTICAL DATUM - NAVD 88 - US FEET

**EXTERNAL REFERENCE:**  
 G:\UC982\03\DWG\REF-USGSMAP.DWG

NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION
1	10/14	JG	INSERTED COMPREHENSIVE BORE HOLE MAP				



DRAWN BY: LDJ  
 CHECKED BY: RBW  
 ORIGINAL DATE: 09/14

APPROVED BY: RBW  
 DWG DATA: G:\UC982\HIDDEN VALLEY

**CONSOL MINING COMPANY LLC**  
 P.O. BOX 566  
 SESSER, IL 62884-0566

**PLATE IVa**  
 HIDDEN VALLEY MINE ACT/015/0007  
 DRILL HOLE LOCATIONS

G:\UC982\03\DWG\REF-USGSMAP.DWG

<b>Total Reclamation Bond 2004 Dollars</b>	\$95,501.00	
<hr/>		
<b>2005 Escalation Factor</b>		1.016
# of Years		1
Escalation Dollars	\$1,528.02	
Total 2005 Dollars	\$97,029.02	
<hr/>		
<b>2006 Escalation Factor</b>		1.032
# of Years		1
Escalation Dollars	\$3,104.93	
Total 2006 Dollars	\$100,133.94	
<hr/>		
<b>2007 Escalation Factor</b>		1.038
# of Years		1
Escalation Dollars	\$3,805.09	
Total 2007 Dollars	\$103,939.03	
<hr/>		
<b>2008 Escalation Factor</b>		1.013
# of Years		1
Escalation Dollars	\$1,351.21	
Total 2008 Dollars	\$105,290.24	
<hr/>		
<b>2009 Escalation Factor</b>		1.005
# of Years		1
Escalation Dollars	\$526.45	
Total 2009 Dollars	\$105,816.69	
<hr/>		
<b>2010 Escalation Factor</b>		1.017
# of Years		1
Escalation Dollars	\$1,798.88	
Total 2010 Dollars	\$107,615.58	
<hr/>		
<b>2011 Escalation Factor</b>		1.012
# of Years		1
Escalation Dollars	\$1,291.39	
Total 2011 Dollars	\$108,906.96	
<hr/>		
<b>2012 Escalation Factor</b>		1.015
# of Years		1
Escalation Dollars	\$1,633.60	
Total 2012 Dollars	\$110,540.57	

Hidden Valley Mine  
 C/015/007  
 Task 4703 Midterm Review

Midterm Review  
 Bond Cost Estimates

December 2014

**2013 Escalation Factor**

# of Years		1.015
Escalation Dollars	\$1,658.11	1
Total 2013 Dollars	\$112,198.68	

**2014 Escalation Factor**

# of Years		1.019
Escalation Dollars	\$2,131.77	1
Additon of 3 Monitoring wells	\$5,421.00	
Total 2014 Dollars	<u>\$119,751.45</u>	

**2014 Escalation Factor @ 1.019**

# of Years / Next MidTerm Review 2019		1.019
Escalation Dollars	<u>\$11,816.98</u>	5

Total 2019 Dollars \$131,568.43

<b>Total 2019 Reclamation Bond Rounded to Nearest \$1,000</b>	<b>\$132,000.00</b>
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Bond Posted in 2009 Dollars \$112,000.00

Bond Short \$20,000.00

% Difference 18%