PERMIT MODIFICATION APPROVAL

October 23, 2013

NOBLE ENERGY, INC.
333 TECHNOLOGY DRIVE, SUITE 110
CANONSBURG, PA 15317

Re: Permit Modification Approval for API Number 5101641, Well #: SHL 13EHS
Casing Extended

Oil and Gas Operator:
The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith
Regulatory/Compliance Manager
Office of Oil and Gas

Promoting a healthy environment.
July 25, 2013

West Virginia Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304-2345

Re: SHL 13 API# 47-5101638 – 47-05101639 -47-05101655 – 47-05101640-47-05101641
47-05101642- 47-05101643

Dear Laura:

Enclosed please find modifications to the casing string for the above referenced well. We would like to extend the 13 3/8" to 1200' if order to try and avoid red rock issues. This change has been approved by the state inspector. This well is located in Marshall County, WV.

Should you have any questions, or desire any additional information, please do not hesitate to contact me at 724-820-3061 or via email at dswiger@nobleenergyinc.com.

Sincerely,

Dee Swiger
Regulatory Analyst
DS/
Enclosures:

Received

JUL 29 2013

Office of Oil and Gas
WV Dept. of Environmental Protection
### CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Size</th>
<th>Grade</th>
<th>Weight per ft</th>
<th>FOOTAGE: For Drilling</th>
<th>INTERVALS: Left in Well</th>
<th>CEMENT: Fill-up (Cu. Ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>30&quot;</td>
<td>N</td>
<td>94.0</td>
<td>40'</td>
<td>40'</td>
<td>CTS</td>
</tr>
<tr>
<td>Fresh Water</td>
<td>20&quot;</td>
<td>N</td>
<td>94.0</td>
<td>400'</td>
<td>400'</td>
<td>CTS</td>
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<tr>
<td>Coal</td>
<td>13 3/8&quot;</td>
<td>N</td>
<td>54.5</td>
<td>1200'</td>
<td>1200'</td>
<td>CTS</td>
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<tr>
<td>Intermediate</td>
<td>9 5/8&quot;</td>
<td>N</td>
<td>36.0</td>
<td>3218'</td>
<td>3218'</td>
<td>CTS</td>
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<tr>
<td>Production</td>
<td>5 1/2&quot;</td>
<td>N</td>
<td>20.0</td>
<td>13521'</td>
<td>13521'</td>
<td>TOC 200' above 9,625&quot; shoe</td>
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<tr>
<td>Tubing</td>
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<td>Liners</td>
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### TYPE

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<tr>
<th>TYPE</th>
<th>Size</th>
<th>Wellbore Diameter</th>
<th>Wall Thickness</th>
<th>Burst Pressure</th>
<th>Cement Type</th>
<th>Cement Yield</th>
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<td>36&quot;</td>
<td>.25</td>
<td>2730</td>
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<td>26&quot;</td>
<td>.438</td>
<td>2730</td>
<td>Type 1</td>
<td>1.18</td>
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<td>17 1/2&quot;</td>
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<td>2730</td>
<td>Type 1</td>
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<td>12 3/8&quot;</td>
<td>.352</td>
<td>3520</td>
<td>Type 1</td>
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<td>Production</td>
<td>5 1/2&quot;</td>
<td>8 3/4&quot;</td>
<td>.361</td>
<td>12640</td>
<td>Class A</td>
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<td>Tubing</td>
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<tr>
<td>Liners</td>
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</table>

### PACKERS

| Kind: | |
| Sizes: | |
| Depths Set: | |
Well is located on topo map 13,689' feet south of Latitude: 40° 02' 30".

File #: SHL13EHS
Drawing #: SHL13EHS
Scale: 1" = 2000'
Minimum degree of accuracy: 1/2500
Proven source of elevation: J.S.G.S. Monument Thomas 1498.81'
(+denotes location of well on United States Topographic Maps WVDEP)
Office of Oil & Gas 601 57th Street Charleston, WV 25304

Well Type: Oil X Waste Disposal X Production Deep X Gas X Liquid Injection Storage X Shallow
Watershed: Turkey Run
County/District: Marshall / Said Hill
Quadrangle: Valley Grove, WV 7.5'
Surface Owner: Paul H. & Annette A. Hensley
Acreage: 121.64

Oil & Gas Royalty Owner: SEE ATTACHED WW-541
Acreage: 393.28+

Drill X Convert X Drill Deeper X Redrill X Fracture or Stimulate X
Plug Off Old Formation X Perforate New Formation X Plug & Abandon X
Clean Out & Replug OTHER CHANGE (SPECIFY):

Date: April 17, 2013
Operator's Well #: SHL13EHS
API Well #: 47 51
State PERMIT

Target Formation: Marcellus
Estimated depth: TVD: 6781' X TBD: 15521'

Well Operator: Noble Energy Inc.
Designated Agent: Steven M. Green
Address: 333 Technology Drive, Suite 116
City: Canonsburg
State: PA Zip Code: 15317

Applicant: Robert Shuck
Applicant Address: 1022 Mountain Home Road
MO: 52689

Blue Mountain Engineering
11025 New Canton Highway
Phone: (304) 685-6486

The undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Signed: [Signature]
R.P.E.: [Signature]
L.L.S.: P.S. No. 2000

Place Seal Here

George S. Smiley
State of West Virginia
Professional Surveyor

10/25/2013