

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Subsequent Report ☐ Final Report

|   |                                 |                      |
|---|---------------------------------|----------------------|
| Name of Company: BP                             | Contact: Steve Moskal           |                      |
| Address: 200 Energy Court, Farmington, NM 87401 | Telephone No.: 505-330-9179     |                      |
| Facility Name: Mudge LS 007                     | Facility Type: Natural gas well |                      |
| Surface Owner: Fee                              | Mineral Owner: Fee              | API No. 30-045-10431 |

LOCATION OF RELEASE

|                  |               |                 |              |                      |                           |                      |                        |                  |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|----------------------|------------------------|------------------|
| Unit Letter<br>M | Section<br>23 | Township<br>31N | Range<br>11W | Feet from the<br>798 | North/South Line<br>South | Feet from the<br>980 | East/West Line<br>West | County: San Juan |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|----------------------|------------------------|------------------|

Latitude 36.879347° Longitude -107.966223°

NATURE OF RELEASE

|  |   |  |
|--|---|--|
| Type of Release: Hydrocarbon -- Suspected Historical drilling pit  | Volume of Release: unknown                | Volume Recovered: none                           |
| Source of Release: Flowline  | Date and Hour of Occurrence:<br>Unknown   | Date and Hour of Discovery: November<br>17, 2013 |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                          |  |
| By Whom?   | Date and Hour:                            |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse. |  |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*


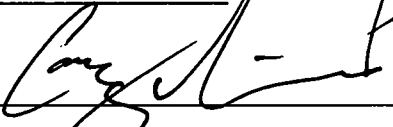
During trenching for the installation of a flowline, hydrocarbon impacted soils were encountered. Impacts are suspected to be a historical drilling pit as contents appear to resemble drilling mud. The area was excavated to approximately 20 feet deep. Soil vapor extraction points were installed to further remediate due to the close proximity of pipelines and the depth of impacts exceeding 35 feet deep.

Describe Area Affected and Cleanup Action Taken.\*

The vertical and lateral extents of the impacted soil were identified via a soil boring investigation. Soil vapor extraction points were installed and the system became operational in November 2015. Attached is the field data demonstrating the performance of the SVE system. The SVE continue to appear effective in reducing the contaminant concentration thus far. Sampling for closure will be proposed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

|  |   |  |
|--|---|--|
| Signature:  | Approved by Environmental Specialist:  |  |
| Printed Name: Steve Moskal   | Approval Date: 9/14/17  | Expiration Date:                             |
| Title: Field Environmental Coordinator   | Conditions of Approval: Continue  | Attached <input checked="" type="checkbox"/> |
| E-mail Address: steven.moskal@bp.com   | Operation of SVE & Reporting<br>Submit Closure plan when ready to drill.  |  |
| Date: August 22, 2017  | OIL CONS. DIV DIST. 3<br>3/16/18  |  |
| Phone: 505-326-9429  | AUG 23 2017   |  |

\* Attach Additional Sheets If Necessary

#NCS 1628649823

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## Smith, Cory, EMNRD

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**From:** Smith, Cory, EMNRD  
**Sent:** Thursday, September 14, 2017 3:22 PM  
**To:** Moskal, Steven  
**Cc:** Fields, Vanessa, EMNRD  
**Subject:** Mudge Ls 7 SVE C-141 Report

Steve,

OCD has approved BP Subsequent report for SVE operations at the Mudge LS #7. As per the report and our phone conversation data implies that closure sampling of the site is soon. Please submit a Closure Plan on a C-141 within no later than March 16, 2018.

Thanks,

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

## BP America - Mudge LS 7

### Summary SVE System Monitoring Data

| Date      | SVE Pt. | Exhaust OVM (ppm) | Exhaust Vacuum (in) | Exhaust Rate (cfm) | System Operational at Time of Arrival? | H <sub>2</sub> O Drained from drum? | H <sub>2</sub> O Amt. Drained (Gal.)? | Comments   |
|-----------|---------|-------------------|---------------------|--------------------|--|-------------------------------------|---------------------------------------|--|
| 2/11/2015 | 5       | 1,249             | 51                  | NA                 | -                                      | -                                   | -                                     | Initial startup on #5 only.                      |
| 2/12/2015 | 5 & 6   | 1,379             | 44                  | NA                 | YES                                    | NO                                  | -                                     | Connected to #6 with pvc tee and additional hose |
| 2/13/2015 | 5 & 6   | 1,345             | 44                  | NA                 | YES                                    | NO                                  |                                       |  |
| 2/16/2015 | 5 & 6   | 1,016             | 44                  | NA                 | YES                                    | YES                                 | 15.00                                 |  |
| 2/17/2015 | 5 & 6   | 887               | 44                  | NA                 | YES                                    | YES                                 | 6.00                                  |  |
| 2/18/2015 | 5 & 6   | 769               | 42                  | NA                 | YES                                    | YES                                 | 4.00                                  |  |
| 2/19/2015 | 5 & 6   | 867               | 42                  | NA                 | YES                                    | YES                                 | 2.00                                  |  |
| 2/23/2015 | 5 & 6   | -                 | -                   | NA                 | NO                                     | YES                                 | 24.00                                 | Restarted after draining water from drum         |
| 2/24/2015 | 5 & 6   | 499               | 42                  | NA                 | YES                                    | YES                                 | 8.00                                  |  |
| 2/26/2015 | 5 & 6   | 419               | 41                  | NA                 | YES                                    | YES                                 | 15.00                                 |  |
| 2/27/2015 | 5 & 6   | 394               | 42                  | NA                 | YES                                    | YES                                 | 4.00                                  |  |
| 3/2/2015  | 5 & 6   | 308               | 42                  | NA                 | YES                                    | YES                                 | 24.00                                 |  |
| 3/3/2015  | 5 & 6   | 315               | 42                  | NA                 | YES                                    | YES                                 | 3.00                                  |  |
| 3/6/2015  | 5 & 6   | 225               | 42                  | NA                 | YES                                    | YES                                 | 16.00                                 |  |
| 3/9/2015  | 5 & 6   | 265               | 43                  | NA                 | YES                                    | YES                                 | 10.00                                 |  |
| 3/10/2015 | 5 & 6   | 258               | 42                  | NA                 | YES                                    | YES                                 | 3.00                                  |  |
| 3/11/2015 | 5 & 6   | 320               | 40                  | NA                 | YES                                    | YES                                 | 3.00                                  |  |
| 3/12/2015 | 5 & 6   | 290               | 40                  | NA                 | YES                                    | YES                                 | 3.00                                  |  |
| 3/13/2015 | 5 & 6   | 265               | 39                  | NA                 | YES                                    | YES                                 | 2.00                                  |  |
| 3/16/2015 | 5 & 6   | 184               | 40                  | NA                 | YES                                    | YES                                 | 10.00                                 |  |
| 3/18/2015 | 5 & 6   | 149               | 39                  | NA                 | YES                                    | YES                                 | 5.00                                  |  |
| 3/19/2015 | 5 & 6   | 237               | 39                  | NA                 | YES                                    | YES                                 | 3.00                                  |  |
| 3/23/2015 | 5 & 6   | 142               | 40                  | NA                 | YES                                    | YES                                 | 15.00                                 |  |
| 3/30/2015 | 5 & 6   | 276               | 40                  | NA                 | YES                                    | YES                                 | 24.00                                 |  |
| 4/1/2015  | 5 & 6   | 198               | 40                  | NA                 | YES                                    | YES                                 | 4.00                                  |  |
| 4/6/2015  | 5 & 6   | 96                | 38                  | NA                 | YES                                    | YES                                 | 20.00                                 | Switched to #2 & #9                              |
| 4/9/2015  | 2 & 9   | -                 | -                   | NA                 | NO                                     | NO                                  |                                       | Unit not operational, broken rotor               |
| 5/18/2015 | 2 & 9   | -                 | -                   | NA                 | YES                                    | NO                                  |                                       | Replacement SVE unit                             |
| 5/20/2015 | 2 & 9   | 92                | 42                  | NA                 | YES                                    | YES                                 | 3.00                                  |  |
| 5/26/2015 | 2 & 9   | 48                | 44                  | NA                 | YES                                    | YES                                 | 8.00                                  | Switched to #5 & #6                              |
| 6/4/2015  | 5 & 6   | 55                | 42                  | NA                 | YES                                    | YES                                 | 7.00                                  |  |
| 6/8/2015  | 5 & 6   | 57                | 40                  | NA                 | YES                                    | YES                                 | 4.00                                  |  |
| 6/15/2015 | 5 & 6   | 47                | 40                  | NA                 | YES                                    | YES                                 | 3.00                                  |  |
| 6/22/2015 | 5 & 6   | 38                | 40                  | NA                 | YES                                    | YES                                 | 0.50                                  |  |



## BP America - Mudge LS 7

### Summary SVE System Monitoring Data

| Date       | SVE Pt. | Exhaust OVM (ppm) | Exhaust Vacuum (in) | Exhaust Rate (cfm) | System Operational at Time of Arrival? | H <sub>2</sub> O Drained from drum? | H <sub>2</sub> O Amt. Drained (Gal.)? | Comments                                    |
|------------|---------|-------------------|---------------------|--------------------|--|-------------------------------------|---------------------------------------|---|
| 6/29/2015  | 5 & 6   | 38                | 38                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 7/6/2015   | 5 & 6   | 40                | 38                  | NA                 | YES                                    | NO                                  | -                                     | Dry drum                                    |
| 7/13/2015  | 5 & 6   | 34                | 38                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 7/20/2015  | 5 & 6   | 28                | 38                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 7/27/2015  | 5 & 6   | 24                | 38                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 8/5/2015   | 5 & 6   | 17                | 38                  | NA                 | YES                                    | NO                                  |                                       | Dry drum, switched to #2 & #9               |
| 8/12/2015  | 2 & 9   | 11                | 38                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 8/19/2015  | 2 & 9   | 10                | 40                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 8/24/2015  | 2 & 9   | 10                | 40                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 8/24/2015  | 2 & 9   | 10                | 40                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 9/8/2015   | 2 & 9   | 9                 | 40                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 9/17/2015  | 2 & 9   | 58                | 40                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                    |
| 9/22/2015  | 2 & 9   | 90                | 42                  | NA                 | YES                                    | YES                                 | 2.00                                  | Dry drum, switched to #1 & #4               |
| 9/23/2015  | 1 & 4   | 7                 | 45                  | NA                 | YES                                    | NO                                  |                                       | Dry drum, switched to #8 & #10              |
| 9/24/2015  | 8 & 10  | 12                | 44                  | NA                 | YES                                    | NO                                  |                                       | Dry drum, switched to #3 & #7               |
| 9/25/2015  | 3 & 7   | 26                | 44                  | NA                 | YES                                    | NO                                  |                                       | Dry drum, switched to #5 & #6               |
| 9/28/2015  | 5 & 6   | 30                | 35                  | NA                 | YES                                    | NO                                  |                                       | Dry drum, switched to #2 & #9               |
| 9/29/2015  | 2 & 9   | 24                | 42                  | NA                 | YES                                    | NO                                  | 0.00                                  | Did not check water level in drum           |
| 10/8/2015  | 2 & 9   | 16                | 42                  | NA                 | YES                                    | NO                                  | 0.00                                  | Did not check water level in drum           |
| 10/15/2015 | 2 & 9   | 14                | 42                  | NA                 | YES                                    | YES                                 | 20.00                                 |   |
| 10/23/2015 | 2 & 9   | 27                | 42                  | NA                 | YES                                    | YES                                 | 14.00                                 |   |
| 10/28/2015 | 2 & 9   | 21                | 42                  | NA                 | YES                                    | NO                                  |                                       | Did not check water level in drum           |
| 11/6/2015  | 2 & 9   | 52                | 42                  | NA                 | NO                                     | YES                                 | 29.00                                 | Collected readings after restarting         |
| 11/13/2015 | 2 & 9   | 40                | 42                  | NA                 | NO                                     | YES                                 | 29.00                                 | Collected readings after restarting         |
| 11/17/2015 | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 20.00                                 |   |
| 11/20/2015 | 2 & 9   | 25                | 42                  | NA                 | YES                                    | YES                                 | 14.00                                 |   |
| 11/24/2015 | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 19.00                                 |   |
| 11/27/2015 | 2 & 9   | 25                | 42                  | NA                 | YES                                    | YES                                 | 11.50                                 |   |
| 12/1/2015  | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 21.00                                 |   |
| 12/4/2015  | 2 & 9   | 23                | 43                  | NA                 | YES                                    | YES                                 | 15.50                                 |   |
| 12/8/2015  | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 18.00                                 |   |
| 12/11/2015 | 2 & 9   | 21                | 42                  | NA                 | YES                                    | YES                                 | 13.00                                 |   |
| 12/15/2015 | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 22.00                                 |   |
| 12/17/2015 | -       | -                 | -                   | NA                 | YES                                    | NO                                  | 0.00                                  | Visually inspected water level in drum only |
| 12/18/2015 | 2 & 9   | 23                | 43                  | NA                 | YES                                    | YES                                 | 20.00                                 |   |
| 12/21/2015 | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 14.00                                 |   |
| 12/24/2015 | 2 & 9   | 10                | 43                  | NA                 | YES                                    | YES                                 | 16.50                                 |   |

## BP America - Mudge LS 7

### Summary SVE System Monitoring Data

| Date       | SVE Pt. | Exhaust OVM (ppm) | Exhaust Vacuum (in) | Exhaust Rate (cfm) | System Operational at Time of Arrival? | H <sub>2</sub> O Drained from drum? | H <sub>2</sub> O Amt. Drained (Gal.)? | Comments                                 |
|------------|---------|-------------------|---------------------|--------------------|--|-------------------------------------|---------------------------------------|--|
| 12/28/2015 | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 14.00                                 |  |
| 12/31/2015 | 2 & 9   | 20                | 42                  | NA                 | YES                                    | YES                                 | 16.50                                 |  |
| 1/4/2016   | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 24.00                                 |  |
| 1/7/2016   | 2 & 9   | 12                | 43                  | NA                 | YES                                    | YES                                 | 16.50                                 |  |
| 1/11/2016  | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 26.00                                 |  |
| 1/14/2016  | 2 & 9   | 16                | 42                  | NA                 | YES                                    | YES                                 | 22.00                                 |  |
| 1/18/2016  | -       | -                 | -                   | NA                 | NO                                     | YES                                 | 10.50                                 | Collected readings after restarting      |
| 1/21/2016  | 2 & 9   | 12                | 43                  | NA                 | YES                                    | YES                                 | 15.00                                 |  |
| 1/25/2016  | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 23.00                                 |  |
| 1/29/2016  | 2 & 9   | 8                 | 44                  | NA                 | YES                                    | YES                                 | 20.50                                 |  |
| 2/2/2016   | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 17.00                                 |  |
| 2/5/2016   | 2 & 9   | 18                | 44                  | NA                 | YES                                    | YES                                 | 19.00                                 |  |
| 2/9/2016   | -       | -                 | -                   | NA                 | YES                                    | YES                                 | 19.00                                 |  |
| 2/13/2016  | 2 & 9   | 10                | 44                  | NA                 | YES                                    | YES                                 | 14.00                                 |  |
| 2/19/2016  | 2 & 9   | 8                 | 43                  | NA                 | YES                                    | YES                                 | 5.00                                  |  |
| 2/26/2016  | 2 & 9   | 5                 | 42                  | NA                 | YES                                    | YES                                 | 23.00                                 |  |
| 3/3/2016   | 2 & 9   | 5                 | 41                  | NA                 | YES                                    | YES                                 | 15.50                                 |  |
| 3/10/2016  | 2 & 9   | 8                 | 42                  | NA                 | YES                                    | YES                                 | 12.00                                 |  |
| 3/17/2016  | 2 & 9   | 6                 | 42                  | NA                 | YES                                    | YES                                 | 15.50                                 |  |
| 3/24/2016  | 2 & 9   | 4                 | 41                  | NA                 | YES                                    | YES                                 | 15.50                                 |  |
| 3/31/2016  | 2 & 9   | 5                 | 41                  | NA                 | YES                                    | YES                                 | 17.00                                 |  |
| 4/8/2016   | 2 & 9   | 3                 | 40                  | NA                 | YES                                    | YES                                 | 14.00                                 |  |
| 4/15/2016  | 2 & 9   | 3                 | 40                  | NA                 | YES                                    | YES                                 | 6.50                                  |  |
| 4/22/2016  | 2 & 9   | 3                 | 40                  | NA                 | YES                                    | YES                                 | 11.50                                 |  |
| 4/29/2016  | 2 & 9   | 3                 | 40                  | NA                 | YES                                    | YES                                 | 6.50                                  |  |
| 5/6/2016   | 2 & 9   | 3                 | 40                  | NA                 | YES                                    | YES                                 | 6.50                                  |  |
| 5/14/2016  | 2 & 9   | 3                 | 39                  | NA                 | YES                                    | YES                                 | 5.00                                  | Switched to #5 & #7                      |
| 5/19/2016  | 5 & 7   | 0                 | 34                  | NA                 | YES                                    | YES                                 | 1.00                                  |  |
| 5/26/2016  | 5 & 7   | 3                 | 36                  | NA                 | YES                                    | NO                                  | 0.00                                  | Measured ~ 1.5" H <sub>2</sub> O in drum |
| 6/3/2016   | 5 & 7   | 3                 | 34                  | NA                 | YES                                    | NO                                  | 0.00                                  | Measured ~ 0.5" H <sub>2</sub> O in drum |
| 6/16/2016  | 5 & 6   | 3                 | 34                  | NA                 | YES                                    | NO                                  |                                       | Water in drum below drain port           |
| 6/30/2016  | 5 & 6   | 3                 | 35                  | NA                 | YES                                    | NO                                  |                                       | Dry drum                                 |
| 7/21/2016  | 5 & 6   | -                 | -                   | NA                 | NO                                     | NO                                  |                                       | Unit not operational, could not restart  |
| 8/19/2016  | 5 & 6   | -                 | -                   | NA                 | NO                                     | NO                                  |                                       | Unit status unchanged                    |



## BP America - Mudge LS 7

### Summary SVE System Monitoring Data

| Date      | SVE Pt. | Exhaust<br>OVM<br>(ppm) | Exhaust<br>Vacuum<br>(in) | Exhaust<br>Rate (cfm) | System<br>Operational<br>at Time of<br>Arrival? | H <sub>2</sub> O<br>Drained<br>from drum? | H <sub>2</sub> O Amt.<br>Drained<br>(Gal.)? | Comments   |
|-----------|---------|-------------------------|---------------------------|-----------------------|---|---|---|--|
| 9/26/2016 | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit status unchanged, tagged for repair, no date indicated  |
| 1/19/2017 | 5 & 6   | 108                     | 36                        | NA                    | YES   | NO  | -   | Unit repaired & restarted, did not check water level in drum |
| 1/25/2017 | 5 & 6   | 30                      | 38                        | NA                    | YES   | YES                                       | 24.00                                       | Could not restart  |
| 2/3/2017  | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit not operational, could not restart                      |
| 2/7/2017  | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit not operational, could not restart                      |
| 2/15/2017 | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit not operational, could not restart                      |
| 2/22/2017 | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit not operational, could not restart                      |
| 3/3/2017  | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit not operational, could not restart                      |
| 3/9/2017  | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit not operational, could not restart                      |
| 3/15/2017 | 5 & 6   | 42                      | 36                        | NA                    | YES   | NO  | -   | Unit repaired & restarted, did not check water level in drum |
| 3/21/2017 | 5 & 6   | -                       | -                         | NA                    | YES   | YES                                       | ?   | Drained H2O, water level not measured                        |
| 3/29/2017 | 5 & 6   | 31                      | 34                        | NA                    | YES   | YES                                       | 16.00                                       |  |
| 4/13/2017 | 5 & 6   | 25                      | 36                        | NA                    | YES   | YES                                       | 27.00                                       |  |
| 4/25/2017 | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit not operational, could not restart                      |
| 5/12/2017 | 5 & 6   | -                       | -                         | NA                    | NO  | NO  | -   | Unit not operational, could not restart                      |
| 6/27/2017 | 5 & 6   | 20                      | 36                        | NA                    | YES   | NO  | 0.00  | Water in drum below drain port                               |
| 7/11/2017 | 5 & 6   | 17                      | 38                        | NA                    | YES   | NO  | 0.00  | Dry drum   |
| 8/14/2017 | 5 & 6   | 25                      | 35                        | NA                    | YES   | NO  | 0.00  | Dry drum   |