

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, June 28, 2021 WELL WORK PLUGGING PERMIT Not Available Plugging

VIKING INTERNATIONAL RESOURCES CO., INC. 1300 FORT PIERPONT DR., SUITE 201 MORGANTOWN, WV 26508

Re: Permit approval for 0 47-085-08010-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: 0

Farm Name: STALLMAN, VIRGINIA

U.S. WELL NUMBER: 47-085-08010-00-00

Not Available Plugging Date Issued: 6/28/2021



## **PERMIT CONDITIONS**

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### **CONDITIONS**

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

WW-4B Rev. 2/01

| 1)Date         | 5 1 20 21         |   |
|----------------|-------------------|---|
| 2) Operator's  | 1001              |   |
| Well No. Hed   | k #7              | _ |
| 3) API Well No | 0. 47-085 - 08010 |   |

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

|     | APPLICATION FOR A PERM   | IT TO PLUG AND ABANDON                          |
|-----|--|---|
|     | , a v / Timid  | injection / Waste disposal/                     |
| 4)  | Well Type: Oil/ Gas x / Liquid   | derground storage) Deep/ Shallow                |
|     | (If "Gas, Production X of Old  | erground sures,                                 |
|     | 027'   | Watershed Gillespie Run                         |
| 5)  | Location: Elevation 937'   | County Ritchie Quadrangle Cairo                 |
|     | District Grant   |   |
|     | Virco  | 7) Designated Agent Brittany Woody              |
| 6)  | Well Operator Address Address Virco 1300 Fort Pierpont Dr., Suite 201  | Address 1300 Fort Pierpoint Dr., Guito 25.      |
|     | Morgantown, WV 26508   | Morgantown, WV 26508                            |
|     | Morganiown, vv zooos   |   |
|     | and the protified  | 9)Plugging Contractor                           |
| 8)  | Oil and Gas Inspector to be notified Name Derek Haught   | Name NA   |
|     | Address PO Box 85  | Address   |
|     | Smithville, WV 26178   |   |
|     | Official vision of the contract of the contrac |   |
|     |  | RECEIVED<br>Office of Oil and Gas               |
|     |  | MAY 1 0 2021                                    |
|     |  | WV Department of<br>Environmental Protection    |
| Not | tification must be given to the district or the can commence.  | oil and gas inspector 24 hours before permitted |
| Wo  | rk order approved by inspector Derak   | M Haught Date 5/5/21                            |



### Procedure for Setting Downhole Plug:

- 1. Verify all HSE requirements are understood and followed
- 2. Verify proper documentation is included in working procedure
- MIRU plugging rig and equipment. Install all sediment and erosion controls and secondary containment.
- Dig out around wellhead and set 4-5 ft of 20" conductor. Hand cement outside of conductor with bag cement.
  - a. This is to control and capture inadvertent returns from the backside of the 6-1/4" casing
- 5. Check pressures and bleed off if present. RU and pull rods and tubing out of the well if present. Tally tubing if pulled and then NORM test.
- 6. Check TD with cable tools
  - a. NOTE: If TD is significantly different from the well record TD notify WVDEP Inspector as well as SWN manager and engineer
- 7. TIH w/ work string to TD, pump tubing capacity, pump 30 bbls of 6% gel, spot cement plug from TD 1600 ft ( 28 sacks Class A)
- 8. TOOH w/ work string to 1505 ft, spot cement plug from 1505 ft 1405 ft ( 17 sacks Class A)
- TOOH w/ work string above cement plug and flush tubing to ensure cement is clear of pip. WOC
- 10. Check TOC @ 1405 ft, reset plug if needed, if not TOOH w/ work string to 950 ft
- 11. Pump 20 bbls of 6% gel then spot cement plug from 950 ft 850 ft (17 sacks Class A)
- 12. TOOH w/ work string. Find free point on 6 1/4" casing (Est. free point @ 600 -700 ft), and cut/rip casing (around 650 ft)
- 13. TOOH w/ 6 1/4" casing pulling several joints
- 14. TIH w/ work string to set cement plug across casing cut to 700ft. Pump 15 bbls of 6% gel ahead and spot cement plug from 700 ft 600 ft (44 sacks Class A)
- 15. TOOH w/ work string. Pull remaining 6-1/4" casing and NORM test.
- 16. TIH w/ work string to 300 ft, if well has not circulated pump 6% gel until wellbore circulates. Then spot cement plug from 300 ft 200 ft (44 sacks Class A),
- 17. TOOH w/ work string to 150 ft. Spot cement plug from 150 ft Surface (100 sacks Class A)
- 18. TOOH w/ work string, top off well with cement if needed
- 19. Erect monument per WVDEP regulations
- RDMO equipment, dispose of circulated fluids properly, reclaim location and access road per WVDEP regulations

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MAY 1 0 2021



### Well Info:

Well Name – W.L. Heck #7 API – 47-085-0-8010 Location – 39.1427190, -81.1940580 County, State – Ritchie, WV Elevation – 937 ft Well Casing Record –

| Casing Size | Casing Depth | Comment                     |
|-------------|--------------|-----------------------------|
| 10"         | 200 ft       | Pulled - Open Hole 12"      |
| 8 1/4"      | 1000 ft      | Pulled - Open Hole 9-3/4"   |
| 6 1/4"      | 1455 ft      | Left in well - Open Hole 8" |
| No Casing   | 1768 ft      | Open Hole – 6"              |

### Perforations -

· Top Salt Sand: 1697'

Shot Interval: 1755' – 1765'

### Comments -

• Hole diameter sizes are assumptions. No record of hole sizes in well file.

### Purpose:

Provide a procedure for safely and effectively plugging & abandoning a well.

### Scope:

This procedure pertains to all SWN Production Company, LLC (SWN) personnel and third parties involved in or near the following procedure on a SWN location in the SW Appalachia Division.

### HSE:

- Must wear 4-Gas Monitor at all times, powered on, and calibrated up to date
- Complete JSEA, LOTO, and Hot Work documents as needed
- Follow proper PPE requirements per "2015 HSE Handbook". Verify pressure control equipment integrity
- Always express STOP work authority if deemed necessary

Hold pre-job safety meeting

Must follow SWN Conventional Well P&A Minimum Requirements Document

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- Access road and location to be constructed per WVDEP regulations and pre-seeded MAY 1 0 2021
- All tubulars pulled from the well need to be NORM tested. Contractor gets all salvage pulled from the well
- All fluids circulated from the wellbore are to be disposed of properly and documentationmental Protection provided

### Responsibilities:

Production Engineer(s) – Responsible for providing a working procedure specified for the well that the work is being performed on. Responsible for coordinating work and seeing that it is finished in a timely manner.

47-085-08010

Well No 7

Oil

W. L. Heck Farm

Grant District, Ritchie County, W. Va.

Drilled by John Crothers

Commenced drilling June 12th 1913

Finished July 3rd. 1913.

All 10" and 81" casing pulled out.

| 8 <del>]</del>                  | casing               | 200,ft.<br>1000 ft.              |
|---------------------------------|----------------------|----------------------------------|
| 82 n<br>62 n<br>63 n            | # 17#<br># 13# on to | 400.ft.<br>p 1055 ft.            |
| Top of S<br>Got oil<br>Total de | at                   | 1697 ft.<br>1758 ft.<br>1768 ft. |

Shot July 8th 1913 by the Hines Torpedo Co., Foster Murdy, shooter, with 40 qts., two 5 \* 5 \* - 20 qt. shells 3 ft anchor. Shot from 1755 ft to 1765 ft.

Frank Neely.

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Office of Oil and Gas

MAY 1 0 2021

IR-26-N OBVERSE

### INSPECTOR'S WELL INSPECTION SUMMARY FORM

| WELL TYPE                     | APIR 47-085-8010-N        |   |
|-------------------------------|---------------------------|---|
| ELEVATION:                    | OPERATOR: D + D ENERGY,   | THC   |
| DISTRICT: GRANT               | TELEPHONE:                | RECEIVED                                    |
| QUADRANGLE: CAIRO 7-5         |                           | 100 10 1000                                 |
| COUNTY: MARGHAUL RITCHIE      | WELL NO.: 1/ECK 7         | APR 1 8 1995                                |
| SURFACE OWNER                 |                           | 140/ Division of<br>Invitational Protection |
| TARGET FORMATION              | DATE APPLICATION RECEIVED |   |
| DATE PERMIT ISSUED: /2 -28 70 |                           |   |
| DATE VISITED                  | ਟਿ                        |   |
| Ins                           | pector report             |   |
| NS ART IS ON WELL COUNT MAD   | <i>c</i> )                |   |
| NO TANK OR TRASH CUSITE.      |                           |   |
| HAS & F"CASING GYLY           |                           |   |
| WELL TO BE REWARTED THIS Y    | IEAR                      |   |
| NO SALT OR OIL SPILLS SHOW!   | ne                        |   |
|                               |                           |   |
|                               |                           |   |
| La                            | wel Heroman               | RECEIVED                                    |
|                               | INSPECTOR'S SIGNATURE     | Office of Oil and Gas                       |
| RECORD ALL VISIT              | S TO THIS WELL ON BACK    | MAY 1 0 2021                                |

|   | and the state of t |
|---|--|
| WELL NOME   | W.L. HECK #7 Cosing Depth Ot Comment   |
| BOOTS COOTS ADZ #   | 2 47-085-08010 84" 1000' 974 Pulled  |
| THIRTY YELDS OF EXCELLENCE COMPYST.   | 2 Rifelie WV 64" 1455 8" Coff in wall  |
| - Elev  | 3 937 Shot Interval 3 1755 1765  |
|   |  |
| HPW ///// Ossure lele   |  |
| OSERANDIAL | Procedure  |
| 6 16 GEL 1 1 10 0.0 0595 Lee  | 1) Dig out around wellhead and set 4- 8 H of   |
| 1 P 200 7///// 200 - Pulled   | 20 conductor Hand Comput outside of Cond.  |
| 300 (//////   | of bag ( unent . ( This is to Control and CApsort  |
| ///sv=- - - - - - - - - - - - - - - - - - -   | inactive tand returns from the backside of the   |
|   | 69 (55)  |
| GEL Segure  | 2) Ru ad pull rods and futing out of well and  |
| 9/4/1   | present. Tally tubing it pulled ( fat ruft)  |
| daling VIII ( openion) at   | 3) Check T.D. of poble foods. Note: If T.D.  |
| 11 10 10 17 17 17 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2   | lacord T.D. Contret WNDEP unspecter  |
| 4450 6% GEL   | 4) RU and TIH w/ work string to TD. Pump   |
|   | 6% get to fillup to 900 ft. (30 bbls).   |
| 900 11/1/1  | 5) Spet coment plus from 1D-1600 ft.   |
| Laked all III and a second and a  | (Closs A; 1.18++1/sx) 28 = Acks  |
| Sci 980 84 C5 shoe 1000 - Pulled  | 6) TOOK of work string to 1508 H. Plung comest N   |
|   | plus from 1505 A - 1405 A (Class A: 1.18 + 185)  |
| 6% Spening  | 2) TOOK Above the criment plug top. WUC.   |
| 1205 GEL Buller  Consulation  | Reset count play if TOC is below 1405A   |
| Saction .   | 100Hw/ work to 950H. Spot Cut 3 lig  |
|   | from 950 A - 950 A (C/ASS A) - 17563.  |
| 100 100 100 100 100 100 100 100 100 100   | 8) Took of workstring. 20 and tild free  |
| 1830 4///// 64 C9 21455   | Point ON 64 (15g (Estimate F.P. 2 600-700)  Cut/RIP 64 (59 and pull several joints.  |
| SE CEL  | 9) TIH of workstring and spot Connect plug   |
|   | acress again, not (650) from 100, 600  |
| and play 3//// Top Salt Sand o 1692'  | (CIASS A) - 445x5 /wp 15665 6 6 900 AME CING   |
| 185KS / 3 Shot interval 1755-1765   | 10) 100H of workstring. Pull remaining 64" csq. (TNORM tool casing)  |
| BS 122-23 /BS 1760  | csq. (TNORM test casing)   |
| Tobal Canant  | 11) TIH of exceptions to 300H. Spot Cart pluy  |
|   | from 300 - 200 (Class D) - 44 5x   |
| 7/49 1 - 28-54<br>7/49 2 - 17-58  | 12) TOOK of work string to 150 ft Spot cont  |
| lus 3 - 175x  | Plus from 150 ft - SURFACE (Closs A)   |
| lu 4 - 445x   | 13) Too H of work string   |
| luy 5 - 445x  |  |
| lug 6 - 100 5X  | 14) ERECT Morument per WVDEP Rees  |
| 7.50 \$7908 N. Sam Houston Pkwy., 5th Floor   | office: 281.931.8884 main: 1.800.BLOWOUT Preprint  fax: 281.931.8302 web: www.boots-coots.com  |
| Houston, TX-77064   | fax: 281.931.8302 ** web: www.boots-coots.com / 02/3021  |

WW-4A Revised 6-07

1) Date: 2) Operator's Well Number Heck #7 08010

085

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

3) API Well No.: 47 -

| Surface Or   | wner(s) to be served  | : 5)  | (a) Coal Operato   | ı*   |  |
|--|---|---|--|--|--|
| (a) Name   | Scott & Karen Pumphr  | ey  | Name   | N/A  |  |
| Address  | 3226 Reyerson Circle  |   | Address  |  |  |
|  | Baltimore, MD 21227   |   | -  |  |  |
| (b) Name   | 1   |   |  | wner(s) with Declaration   |  |
| Address  |   |   | Name   |  |  |
|  |   |   | Address  | ·  |  |
| (c) Name   |   |   | Name   |  |  |
| Address  |   |   | Address  |  |  |
| 11001000   |   |   |  | -  |  |
| ) Inspector  | Derek Haught  |   | (c) Coal Le  | ssee with Declaration  |  |
| Address  | PO Box 85   |   | Name   |  |  |
|  | Smithville, WV 26178  |   | Address  |  |  |
| Telephone  | 304-206-7613  |   |  |  |  |
|  |   |   |  | eived this Form and the following docun  |  |
| The reason<br>However,   | you are not required to take<br>ce that under Chapter 22-6  | nents is that you have rig<br>any action at all.<br>of the West Virginia Cod  | ghts regarding the appli-  | cation which are summarized in the instructions on operator proposes to file or has filed this Notice and the Office of Oil and Gas. West Virginia Department  | d Application and  |
| The reason<br>However,<br>Take noting<br>accompant<br>Protection<br>the Appli                      | on you received these docum<br>you are not required to take<br>ce that under Chapter 22-6<br>lying documents for a perm<br>t, with respect to the well at   | nents is that you have rig<br>any action at all.<br>of the West Virginia Cod<br>it to plug and abandon a<br>the location described o<br>een mailed by registered  | the the undersigned well<br>well with the Chief of the<br>or certified mail or de  | operator proposes to file or has filed this Notice and Office of Oil and Gas, West Virginia Department ion and depicted on the attached Form WW-6-16-colivered by hand to the person(s) named above (or  | d Application and<br>of Finying mental<br>pies of this Notice,   |
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| The reaso<br>However,<br>Take noti<br>accompar<br>Protection<br>the Appli<br>certain cir           | n you received these docum you are not required to take ce that under Chapter 22-6 hying documents for a permit, with respect to the well at cation, and the plat have becomestances) on or before the cumstances.  | wents is that you have right any action at all.  of the West Virginia Codit to plug and abandon a set the location described of een mailed by registered at day of mailing or deliver well Operator By:  Its:  Address  Telephone           | chts regarding the application of the undersigned well with the Chief of the or certified mail or deep to the Chief.  Virco  Brittany Woody  Senior Regulatory And 1300 Fort Pierpont Dr. Morgantown, WV 265 304-884-1610            | I operator proposes to file or has filed this Notice an ne Office of Oil and Gas, West Virginia Department ion and depicted on the attached Form WW-6-Filed clivered by hand to the person(s) named above (or MAY)  WV DETAILS TO SUITE 201  Notary Public  Notary Public  OFFI  Notary Public  OFFI  Notary Public  ELIZA   | ad Application and of Invited Protection  FIGIAL SEAL State Of West Virgase Total Protection   |
| The reaso However, Take noti accompar Protection the Appli certain cir  ubscribed and Iy Commissio | n you received these docum you are not required to take ce that under Chapter 22-6 bying documents for a permit, with respect to the well at cation, and the plat have becomestances) on or before the discounty of the comment of the | wents is that you have right any action at all.  of the West Virginia Codit to plug and abandon a right the location described of een mailed by registered the day of mailing or deliver.  Well Operator By: Its: Address Telephone         | chts regarding the application of the attached Application certified mail or deepy to the Chief.  Virco  Brittany Woody  Senior Regulatory And 1300 Fort Pierpont Dr. Morgantown, WV 265 304-884-1610                                | operator proposes to file or has filed this Notice and the Office of Oil and Gas, West Virginia Department ion and depicted on the attached Form WW-6-16-16-16-16-16-16-16-16-16-16-16-16-1  | d Application are of fine projection of this Notice by publication of 1 0 2021  Department of the Protection of the Protection of the State of West Virginia and the State of West Virgini |

office will appropriately secure your personal information. If you have any questions about our use of your personal

information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wy.gov.

07/02/2021



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Office of Oil and Gas

MAY 1 0 2021

### SURFACE OWNER WAIVER

47085080100

Operator's Well Number

| Heck | #7          |  |
|------|-------------|--|
| ICON | $\pi \iota$ |  |

### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

# NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

1) The proposed well work will constitute a hazard to the safety of persons.

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- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;

4) The proposed well work fails to protect fresh water sources or supplies;

WV Department of Environmental Protection

5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

### **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

| I further state that I have no objection to th         | ne planned | work | described | in | these | materials, | and | I have | no |
|--|------------|------|-----------|----|-------|------------|-----|--------|----|
| objection to a permit being issued on those materials. |            |      |           |    |       |            |     |        |    |

FOR EXECUTION BY A NATURAL PERSON ETC.

FOR EXECUTION BY A CORPORATION,

|           | Date | Name | Virco                     |                 |
|-----------|------|------|---------------------------|-----------------|
| Signature |      | Ву   | Brittany Woody            |                 |
|           |      | Its  | Senior Regulatory Analyst | Date            |
|           |      |      | C: man turns              | 0 = Produce 0 0 |

Signature

07/02/2021

WW-9 (5/16)

| API Number 47 -    | 085  | 08010 |  |
|--------------------|------|-------|--|
| Operator's Well No | Heck | #7    |  |

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name Virco  | OP Code 7434  |
|--|---|
| Vatershed (HUC 10) Gillespie Run   | Quadrangle Cairo  |
| Do you anticipate using more than 5,000 bbls of water to co  | omplete the proposed well work? Yes No V  |
| Vill a pit be used? Yes No ✓   | ANY WELL EFFLUENT WILL BE CONTAINED IN<br>TANKS BEFORE DISPOSING OFF SITE, JUNIOR   |
| If so, please describe anticipated pit waste:  | 1.00  |
| Will a synthetic liner be used in the pit? Yes   | No 11 so, what ml.?   |
| Proposed Disposal Method For Treated Pit Waste   |   |
| Underground Injection ( UIC Per Reuse (at API Number   | rovide a completed form WW-9-GPP) ermit Number TBD pending selection of plugging contractor   |
| Off Site Disposal (Supply form   | WW-9 for disposal location)   |
| Other (Explain   | RECEIVED Office of Oil and Gas  |
| AVA  | NCM I Jal   |
| Will closed loop systembe used? If so, describe: N/A   |   |
| Orilling medium anticipated for this well (vertical and hori   |   |
| -If oil based, what type? Synthetic, petroleum, et   | c. N/A  |
| Additives to be used in drilling medium? N/A   |   |
| Orill cuttings disposal method? Leave in pit, landfill, remo   | oved offsite, etc. N/A  |
| -If left in pit and plan to solidify what medium wi  | ill be used? (cement. lime, sawdust) N/A  |
| -Landfill or offsite name/permit number?   |   |
| Permittee shall provide written notice to the Office of Oil :<br>West Virginia solid waste facility. The notice shall be provided it was properly disposed.  | and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose  |
|  |   |
| I certify that I understand and agree to the terms on April 1, 2016, by the Office of Oil and Cas of the Webprovisions of the permit are enforceable by law. Violation or regulation can lead to enforcement action.  I certify under penalty of law that I have personable information, I believe that the information is true, as submitting false information, including the possibility of forcement of Company Official Signature.  Brittany Woody  | and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the iss of any term or condition of the general permit and/or other applicable law onally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for obtaining courate, and complete. I am aware that there are significant penalties for fine or imprisonment. |
| I certify that I understand and agree to the terms on April 1, 2016, by the Office of Oil and Cas of the Webprovisions of the permit are enforceable by law. Violation or regulation can lead to enforcement action.  I certify under penalty of law that I have personable information, I believe that the information is true, as submitting false information, including the possibility of formany Official Signature  | onally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for o btaining occurate, and complete. I am aware that there are significant penalties for   |
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| I certify that I understand and agree to the terms on April 1, 2016, by the Office of Oil and Cas of the Webprovisions of the permit are enforceable by law Violations or regulation can lead to enforcement action.  I certify under penalty of law that I have personapplication form and all attachments thereto and that, base the information, I believe that the information is true, as submitting false information, including the possibility of formany Official Signature Amany Moody  Company Official Title Senior Regulatory Analyst | onally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for o btaining occurate, and complete. I am aware that there are significant penalties for   |

Form WW-9

Operator's Well No.

| posed Revegetation Treat  | ment: Acres Disturbed ON  |   |  |
|---|---|---|--|
| Lime Two  | Tons/acre or to correct   | 1 to pH 6.5   |  |
| Fertilizer type 10-2  | 20-20   |   |  |
| Fertilizer amount 5   | 00  | lbs/acre  |  |
| Mulch_50 Bales  | 2.5   | Tons/acre   |  |
|   |   | Seed Mixtures   |  |
| Te  | emporary  | Permanent   |  |
| Seed Type   | lbs/acre  | Seed Type   | lbs/acre   |
|   |   | Orchard Grass   | 30%  |
|   |   | Rye (annual @BT)  | 35%  |
|   |   | Timothy (Climax)  | 25%  |
|   |   | Claver (Med Ped)  | 10%  |
| Iaps(s) of road, location, provided). If water from the W), and area in acres, or   | it and proposed area for land<br>pit will be land applied, pro<br>f the land application area.<br>olved 7.5' topographic sheet. | Clover (Med.Red)  d application (unless engineered plans include ovide water volume, include dimensions (L. V | ng this info have been   |
| Iaps(s) of road, location, provided). If water from the W, who, and area in acres, or hotocopied section of involved                                  | the land applied, profit will be land applied, profit the land application area.  | d application (unless engineered plans including byide water volume, include dimensions (L. V                 | ng this info have been   |
| Maps(s) of road, location, provided). If water from the L, W), and area in acres, or thotocopied section of involved an Approved by:                  | the land application area.  | d application (unless engineered plans including byide water volume, include dimensions (L. V                 | ng this info have been   |
| Maps(s) of road, location, provided). If water from the L, W), and area in acres, or thotocopied section of involved Approved by: December 2015       | the land applied, profit will be land applied, profit the land application area.  | d application (unless engineered plans including byide water volume, include dimensions (L. V                 | ng this info have been   |
| rovided). If water from the L, W), and area in acres, or hotocopied section of invo   | the land applied, profit will be land applied, profit the land application area.  | d application (unless engineered plans including byide water volume, include dimensions (L. V                 | ng this info have been V, D) of the pit, and dimens                                      |
| Maps(s) of road, location, provided). If water from the L, W), and area in acres, or thotocopied section of involved Approved by: December 2015       | the land applied, profit will be land applied, profit the land application area.  | d application (unless engineered plans including byide water volume, include dimensions (L. V                 | ng this info have been V, D) of the pit, and dimens                                      |
| Maps(s) of road, location, p<br>provided). If water from the<br>L, W), and area in acres, of<br>Photocopied section of invo-<br>Plan Approved by: Dec | the land applied, profit will be land applied, profit the land application area.  | d application (unless engineered plans including byide water volume, include dimensions (L. V                 | ng this info have been V, D) of the pit, and dimens  RECEIV  Office of Oil a  WV Departs |

WW-9- GPP Rev. 5/16

| Page                | of Z    |
|---------------------|---------|
| API Number 47 - 085 | - 08010 |
| Operator's Well No. |         |

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS GROUNDWATER PROTECTION PLAN

| Cilloonio Dun  | O 1 Coiro  |  |
|--|--|--|
| Watershed (HUC 10): Gillespie Run  | Quad: Cairo                                      |  |
| Farm Name:   |  |  |
| <ol> <li>List the procedures used for the treatment and discharge of<br/>groundwater.</li> </ol> | of fluids. Include a list of all operations that | could contaminate the                        |
| Plug to abandon operations.  |  |  |
|  |  |  |
| <ol><li>Describe procedures and equipment used to protect ground</li></ol>                       | Iwater quality from the list of potential conta  | minant sources above.                        |
| List the closest water body, distance to closest water bo discharge area.                        | dy, and distance from closest Well Head P        | Protection Area to the                       |
| N/A  |  |  |
|  |  | RECEIVED<br>Office of Oil and Gas            |
|  |  | MAY 1 0 2021                                 |
| Summarize all activities at your facility that are already reg                                   | gulated for groundwater protection.              | WV Department of<br>Environmental Protection |
| N/A  |  |  |
| 7.8.7.2  |  |  |
|  |  |  |
|  |  | 4.0  |

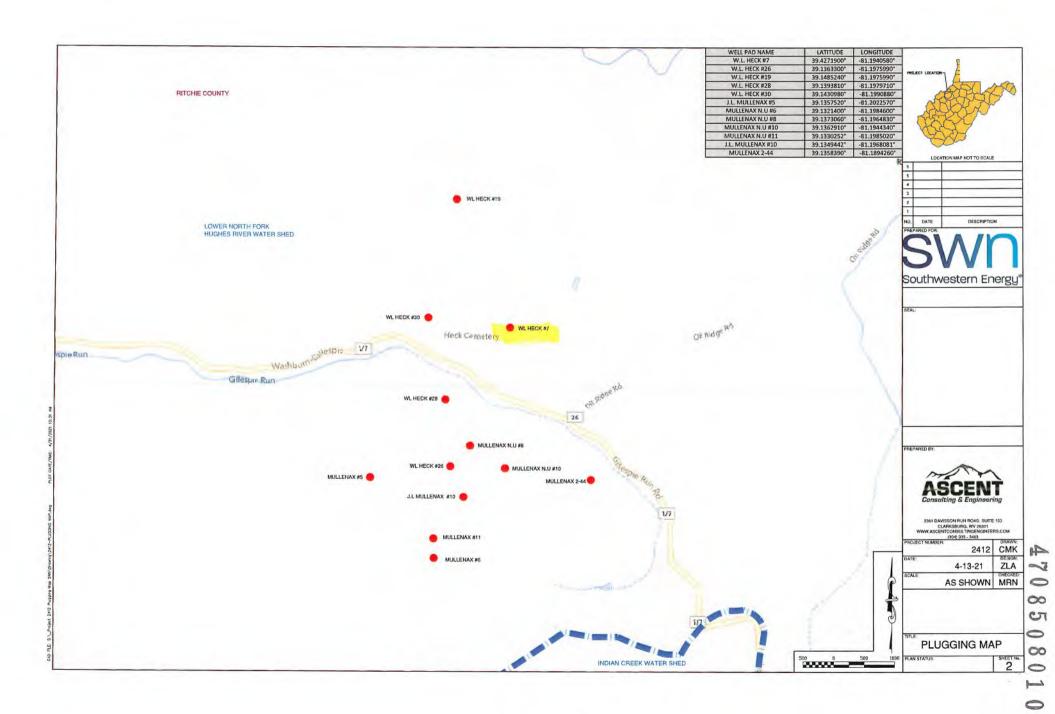
5. Discuss any existing groundwater quality data for your facility or an adjacent property.

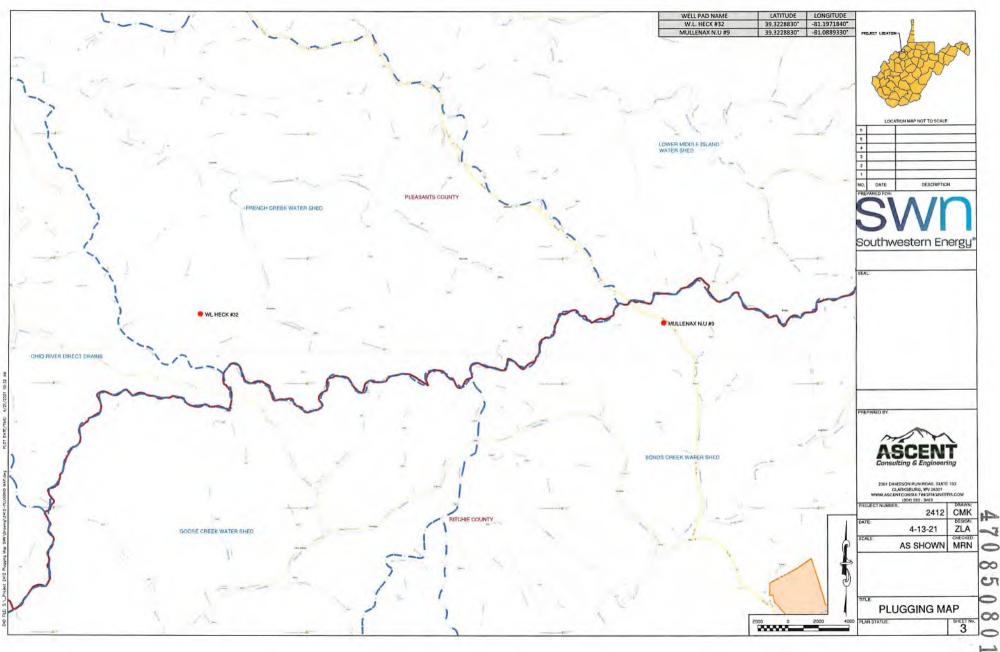
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API Number 47 - 085 - 08010

Operator's Well No.\_\_\_\_\_\_

| N/A   |                                  |
|---|----------------------------------|
| Provide a statement that no waste material will be used for deicing or fill material on the property.   |                                  |
| No waste materials will be used for the deicing of area or equipment. Waste materi will not be used for material fill on the property.                              | als, if any,                     |
| Describe the groundwater protection instruction and training to be provided to the employees. Job provided direction on how to prevent groundwater contamination.   | cedures shall                    |
|   |                                  |
|   |                                  |
| Provide provisions and frequency for inspections of all GPP elements and equipment.   | RECEIVED<br>Office of Oil and Ga |
| Provide provisions and frequency for inspections of all GPP elements and equipment.  Inspections will be done before and during operations by designated employees. |                                  |





WW-7 8-30-06



# West Virginia Department of Environmental Protection Office of Oil and Gas

# WELL LOCATION FORM: GPS API: 47-085-08010 WELL NO.: 7 FARM NAME: Heck RESPONSIBLE PARTY NAME: Virco COUNTY: Ritchie QUADRANGLE: Cairo SURFACE OWNER: Scott & Karen Pumphrey ROYALTY OWNER: Scott & Karen Pumphrey UTM GPS NORTHING: 4,332,641.10 UTM GPS EASTING: 483,244.10 GPS ELEVATION: 937' The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters: Altitude:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude:
height above mean sea level (MSL) – meters.

2. Accuracy to Datum – 3.05 meters

3. Data Collection Method:
Survey grade GPS × : Post Processed Differential

Real-Time Differential ×

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WV Department of Environmental Protection

Mapping Grade GPS \_ : Post Processed Differential \_ ...

Real-Time Differential \_ ...

Real-Time Differential \_ ...

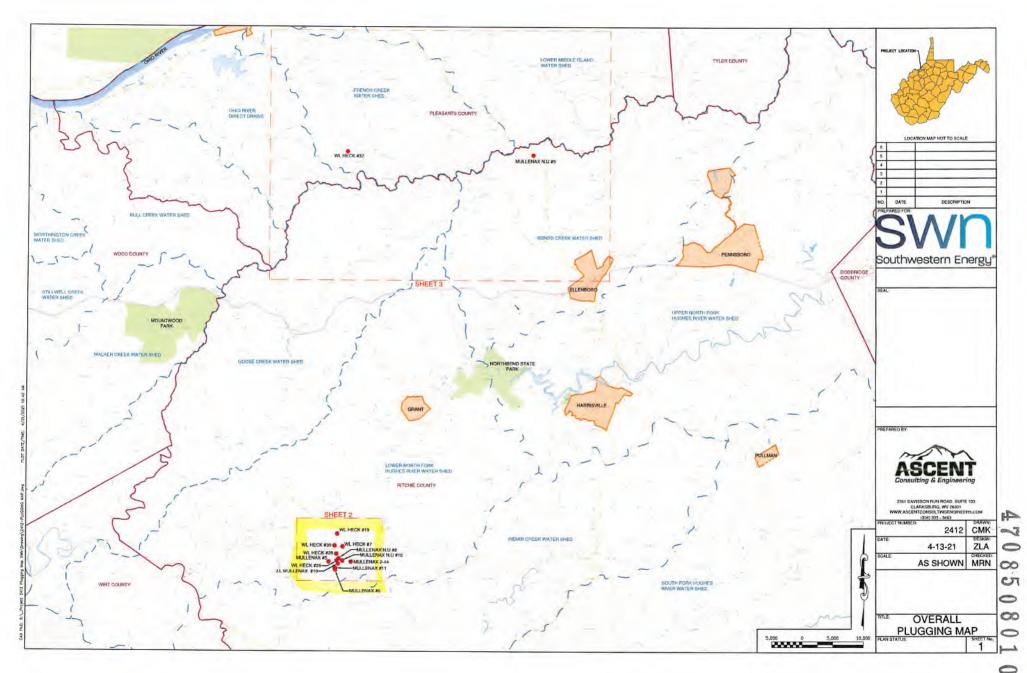
At the size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature 10004

Senior Regulatory Analyst

Title D



11/10/2016

PLUGGING PERMIT CHECKLIST

| Plugging Permit  |                                |
|--|--------------------------------|
| WW-4B  |                                |
| WW-4B signed by inspector  |                                |
| WW-4A  |                                |
| SURFACE OWNER WAIVER OF PROOF THAT APPLICATION WAS SENT BY MAIL      | REGISTERED OR CERITFIED        |
| COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS OF PROOF THAT           | T APPLICATION WAS SENT         |
| WW-9 PAGE 1 (NOTARIZED)  |                                |
| WW-9 PAGE 2 with attached drawing of road, location, pit and propose | ed area for land application   |
| WW-9 GPP PAGE 1 and 2 if well effluent will be land applied          |                                |
| RECENT MYLAR PLAT OR WW-7  |                                |
| WELL RECORDS/COMPLETION REPORT                                       |                                |
| TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED                  |                                |
| MUST HAVE VALID BOND IN OPERATOR'S NAME                              | RECEIVED Office of Oil and Gas |
| CHECK FOR \$100 IF PIT IS USED                                       | MAY 1 0 2021                   |