



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

Thursday, April 8, 2021
WELL WORK PERMIT
Vertical / Re-Work

HG ENERGY, LLC
5260 DUPONT ROAD
PARKERSBURG, WV 26101

Re: Permit approval for SB KINKEAD 104
47-087-04751-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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.

A handwritten signature in blue ink, appearing to read 'James A. Martin'.

James A. Martin
Chief

Operator's Well Number: SB KINKEAD 104
Farm Name: SNODGRASS, REVA ET AL
U.S. WELL NUMBER: 47-087-04751-00-00
Vertical Re-Work
Date Issued: 4/8/2021

Promoting a healthy environment.

04/09/2021

I

4708704751W

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

04/09/2021

FORM WW-3 (B)
1/12



1) Date: 01/08/2021
 2) Operator's Well No. S. B. Kinkead 104
 3) API Well No.: 47 - Roane - 04751
 State County Permit
 4) UIC Permit No. 2R08700005AP

STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
 FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

5) WELL TYPE: Liquid Injection / Gas Injection (not storage) / Waste Disposal
 6) LOCATION: Elevation: 1110' Watershed: Rush Run
 District: Smithfield County Roane Quadrangle Looneyville 7.5'
 7) WELL OPERATOR: HG Energy, LLC 8) DESIGNATED AGENT Diane White
 Address 5260 Dupont Road Address 5260 Dupont Road
 Parkersburg, WV 26101 Parkersburg, WV 26101
 9) OIL & GAS INSPECTOR TO BE NOTIFIED 10) DRILLING CONTRACTOR
 Name Joe Taylor Name
 Address 1478 Claylick Road Address
 Ripley, WV 25271

11) PROPOSED WELL WORK Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation / Convert
 Other physical change in well (specify)

12) GEOLOGIC TARGET FORMATION Big Injun Depth 2466' Feet (top) to 2476' Feet (bottom)
 13) Estimated Depth of Completed Well, (or actual depth of existing well): 2650' TMD Feet
 14) Approximate water strata depths: Fresh NA Feet Salt 1820' Feet
 15) Approximate coal seam depths: NA
 16) Is coal being mined in the area? Yes No
 17) Virgin reservoir pressure in target formation 1250 psig Source Estimated
 18) Estimated reservoir fracture pressure 2650 psig (BHFP)
 19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 BBL Bottom hole pressure 2400 psi
 20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES Fresh water, Produced water,
 bactericides, and other chemicals as needed to maintain water quality and improve oil recovery.

21) FILTERS (IF ANY) Cartridge filters
 22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL

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23) CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS | | | | | FOOTAGE INTERVALS | | CEMENT FILL-UP OR SACKS (CU. FT.) | WATERS Environmental Protection |
|-----------------------|----------------|-------|----------------|-----|------|-------------------|--------------|-----------------------------------|---------------------------------|
| | Size | Grade | Weight per ft. | New | Used | For Drilling | Left In Well | | |
| Conductor | 11 5/8" | LS | NA | | x | 30' | 30' | | Kinds |
| Fresh Water | 7" | LS | 17 | x | | 546' | 546' | CTS | Tension |
| Coal | | | | | | | | | Sizes |
| Intermediate | | | | | | | | | 2 3/8" x 4" |
| Production | 4 1/2" | J-55 | 10.5 | x | | 2618' | 2618' | 200 sks | Depths set |
| Tubing | 2 3/8" | J-55 | 4.6 | x | | 2400' | 2400' | | 2300' |
| Liners | | | | | | | | | Perforations 40 |
| | | | | | | | | | Top Bottom |
| | | | | | | | | | 2466' 2476' |

24) APPLICANT'S OPERATING RIGHTS were acquired from SB and MC Kinkead
 by deed / lease x / other contract / dated 09/20/1906 of record in the
 Roane County Clerk's office in lease Book 10 Page 204

Handwritten signature

04/09/2021

WR-35
Rev. 8/23/13

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-087-04751 County ROANE District SMITHFIELD
Quad LOONEYVILLE 7.5' Pad Name KINKEAD, S.B. Field/Pool Name CLOVER
Farm name SNODGRASS, REVA ET AL Well Number 104
Operator (as registered with the OOG) H.G. ENERGY LLC
Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,285,363 M Easting 475,278 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4,285,543 M Easting 475,446 M

Elevation (ft) 1,110' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s) N/A
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WV Department of Environmental Protection
Date permit issued 11/14/14 Date drilling commenced 1/1/15 Date drilling ceased 1/3/15
Date completion activities began 2/4/15 Date completion activities ceased 4/30/15
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft None Open mine(s) (Y/N) depths None
Salt water depth(s) ft 1820' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) N

Reviewed by: [Signature]

04/09/2021

WR-35
Rev. 8/23/13

API 47-087 - 04751

Farm name SNODGRASS, REVA ET AL

Well number 104

| CASING STRINGS | Hole Size | Casing Size | Depth | New or Used | Grade wt/ft | Basket Depth(s) | Did cement circulate (Y/N) * Provide details below* |
|---------------------------|-----------|-------------|---------|-------------|-------------|-----------------|--|
| Conductor | 12 1/4" | 11 5/8" | 30' | Used | LS | | |
| Surface | 8 3/4" | 7" | 546' | New | LS | 64' | Sand In Y |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 6 1/4" | 4 1/2" | 2618.3' | New | J-55 | | |
| Tubing | | | | | | | N |
| Packer type and depth set | | | | | | | |

Comment Details Circulated Est. 25 sks to surface on 7" surface cement job. Did not circulate cement to surface on 4 1/2" cement job.

| CEMENT DATA | Class/Type of Cement | Number of Sacks | Slurry wt (ppg) | Yield (ft ³ /sks) | Volume (ft ³) | Cement Top (MD) | WOC (hrs) |
|----------------|----------------------|-----------------|-----------------|------------------------------|---------------------------|-----------------|-----------|
| Conductor | | | | | | | |
| Surface | Reg Neat | 140 | 15.6 | 1.18 | 165 | Surface | 8 |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 50:50 Pozmix | 110/125 | 13.2/14.2 | 1.64/1.27 | 180/186 | 604' | 8 |
| Tubing | | | | | | | |

Drillers TD (ft) 2650'

Deepest formation penetrated Big Injun

Loggers TD (ft) 2598'

Plug back procedure N/A

Plug back to (ft) N/A

Kick off depth (ft) 550'

Check all wireline logs run

- caliper
- density
- deviated/directional
- induction
- neutron
- resistivity
- gamma ray
- temperature
- sonic

Well cored Yes No

Conventional Sidewall

Were cuttings collected Yes No

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DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING
20 Centralizers every 88 from bottom on 4 1/2", Centralizer placed mid string on 7"

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

WR-35
Rev. 8/23/13

API 47- 087 - 04751

Farm name SNODGRASS, REVA ET AL

Well number 104

PRODUCING FORMATION(S)

DEPTHS

Big Injun _____ 2156'- 2182' TVD 2450'- 2492' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow

OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd
GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION TOP DEPTH IN FT BOTTOM DEPTH IN FT TOP DEPTH IN FT BOTTOM DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)

| LITHOLOGY/ FORMATION | TOP DEPTH IN FT | BOTTOM DEPTH IN FT | TOP DEPTH IN FT | BOTTOM DEPTH IN FT | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
|----------------------|-----------------|--------------------|-----------------|--------------------|---|
| | NAME TVD | TVD | MD | MD | |
| Sand/Shale | 0 | 1610 | 0 | 1600 | |
| Sand | 1610 | 1642 | 1600 | 1649 | |
| Shale | 1642 | 1736 | 1649 | 1766 | |
| Sand | 1736 | 1806 | 1766 | 1910 | |
| Shale | 1806 | 1830 | 1910 | 1950 | |
| Sand | 1830 | 1980 | 1950 | 2180 | |
| Little Lime | 1980 | 1997 | 2180 | 2210 | |
| Pencil Cave | 1997 | 2009 | 2210 | 2226 | |
| Big Lime | 2009 | 2134 | 2226 | 2426 | |
| Keener | 2134 | 2156 | 2426 | 2450 | |
| Big Injun | 2156 | 2182 | 2450 | 2492 | |
| Shale | 2182 | 2290 | 2492 | 2650 | Drilled directional N 41° E a distance of 888' |
| TD | 2290 | | 2650 | | |

Please insert additional pages as applicable.

Drilling Contractor Decker Drilling

Address 11565 State Route 676 City Vincent State OH Zip 45784

Logging Company Weatherford International

Address 777 North River Avenue City Weston State WV Zip 26452

Cementing Company Universal Services

Address Hall Rd City Buckhannon State WV Zip 26201

Stimulating Company Producers Service Corp.

Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Roger Heldman

Signature [Signature] Title Operations Manager Telephone 304-420-1107

Date 5/4/15

Submittal of Hydraulic Fracturing Chemical Disclosure Information

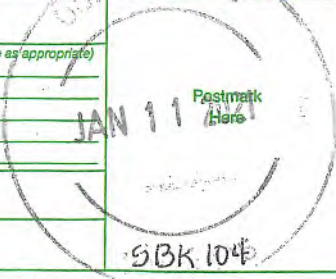
Attach copy of FRACFOCUS Registry

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Office of Gas
JAN 21 2015
WV Dept. of Environmental Protection

4708704751 W

7019 2280 0000 1286 7368

| | |
|--|---------------------|
| U.S. Postal Service™ | |
| CERTIFIED MAIL® RECEIPT | |
| <i>Domestic Mail Only</i> | |
| For delivery information, visit our website at www.usps.com ®. | |
| OFFICIAL USE | |
| Certified Mail Fee | \$ _____ |
| Extra Services & Fees (check box, add fee as appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ _____ |
| <input type="checkbox"/> Return Receipt (electronic) | \$ _____ |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ _____ |
| <input type="checkbox"/> Adult Signature Required | \$ _____ |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ _____ |
| Postage | \$ _____ |
| Total Postage and Fees | \$ _____ |
| Sent To | Ed Ashbury |
| Street and Apt. No., or PO Box No. | 3740 Tranquility Dr |
| City, State, ZIP+4® | Melbourne FL 32934 |
| PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions | |



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WV Department of
Environmental Protection

04/09/2021



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

4708704751w

January 8, 2021

Ed Ashbury
3740 Tranquility Drive
Melbourne, FL 32934

RE: S. B. Kinkead No. 104
Smithfield District, Roane County
West Virginia

Dear Mr. Asbury:

Enclosed are copies of various application papers that we have filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a landowner are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

04/09/2021

WW-9
(2/15)

API Number 47 - 87 - 04751
Operator's Well No. S B Kinkead 104

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC OP Code 494497948
Watershed (HUC 10) Rush Run Quadrangle Looneyville 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No Any well effluent will be contained in tanks before disposing off-site, GWM

If so, please describe anticipated pit waste: NA

Will a synthetic liner be used in the pit? Yes No If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No waste anticipated, should there be any fluids they'll be hauled for off site disposal)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

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Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA

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-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? NA

WV Department of Environmental Protection

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

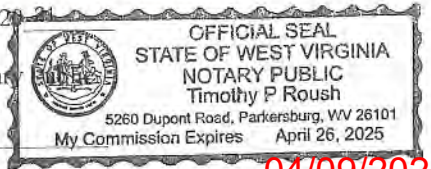
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Diane White
Company Official (Typed Name) Diane White
Company Official Title Agent

Subscribed and sworn before me this 8th day of January, 2021
[Signature]
My commission expires 4/26/2025

[Signature]
1-14-21



04/09/2021

HG Energy, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.1 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

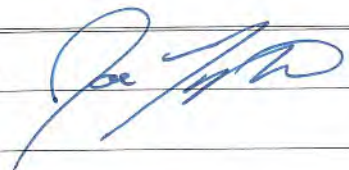
| Temporary | | Permanent | |
|---------------|----------|---------------|----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Tall Fescue | 40 | Tall Fescue | 40 |
| Ladino Clover | 5 | Ladino Clover | 5 |

** Sediment Control Plan will be in effect at all times **

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

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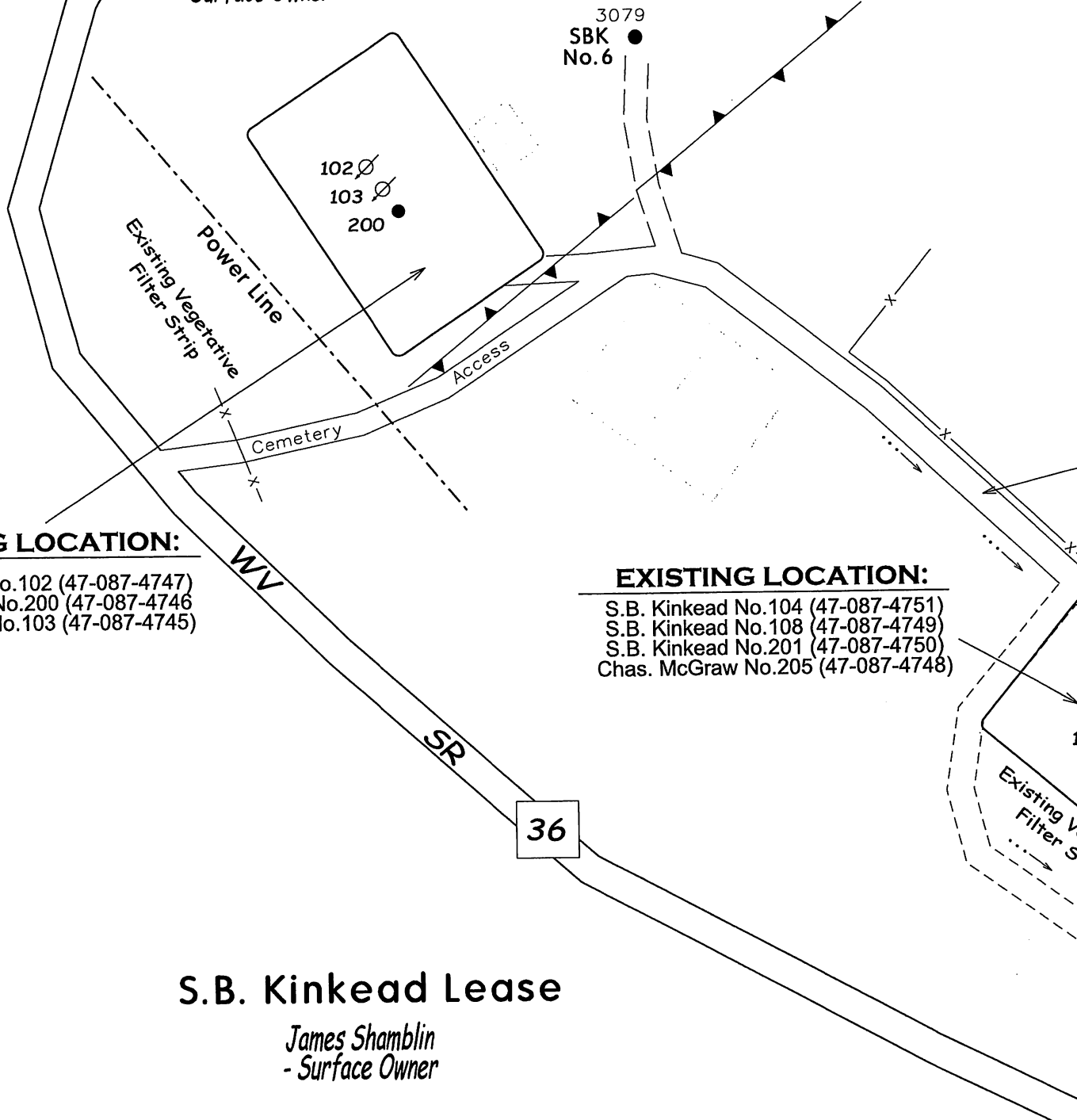
WV Department of
Environmental Protection

Title: OGG Inspects Date: 1-14-21

Field Reviewed? () Yes () No

S.B. Kinkead Lease

*Derek Gibson
- Surface Owner*



EXISTING LOCATION:

- Carr Nichols No.102 (47-087-4747)
- S.B. Kinkead No.200 (47-087-4746)
- S.B. Kinkead No.103 (47-087-4745)

EXISTING LOCATION:

- S.B. Kinkead No.104 (47-087-4751)
- S.B. Kinkead No.108 (47-087-4749)
- S.B. Kinkead No.201 (47-087-4750)
- Chas. McGraw No.205 (47-087-4748)

S.B. Kinkead Lease

*James Shamblin
- Surface Owner*

Notes:

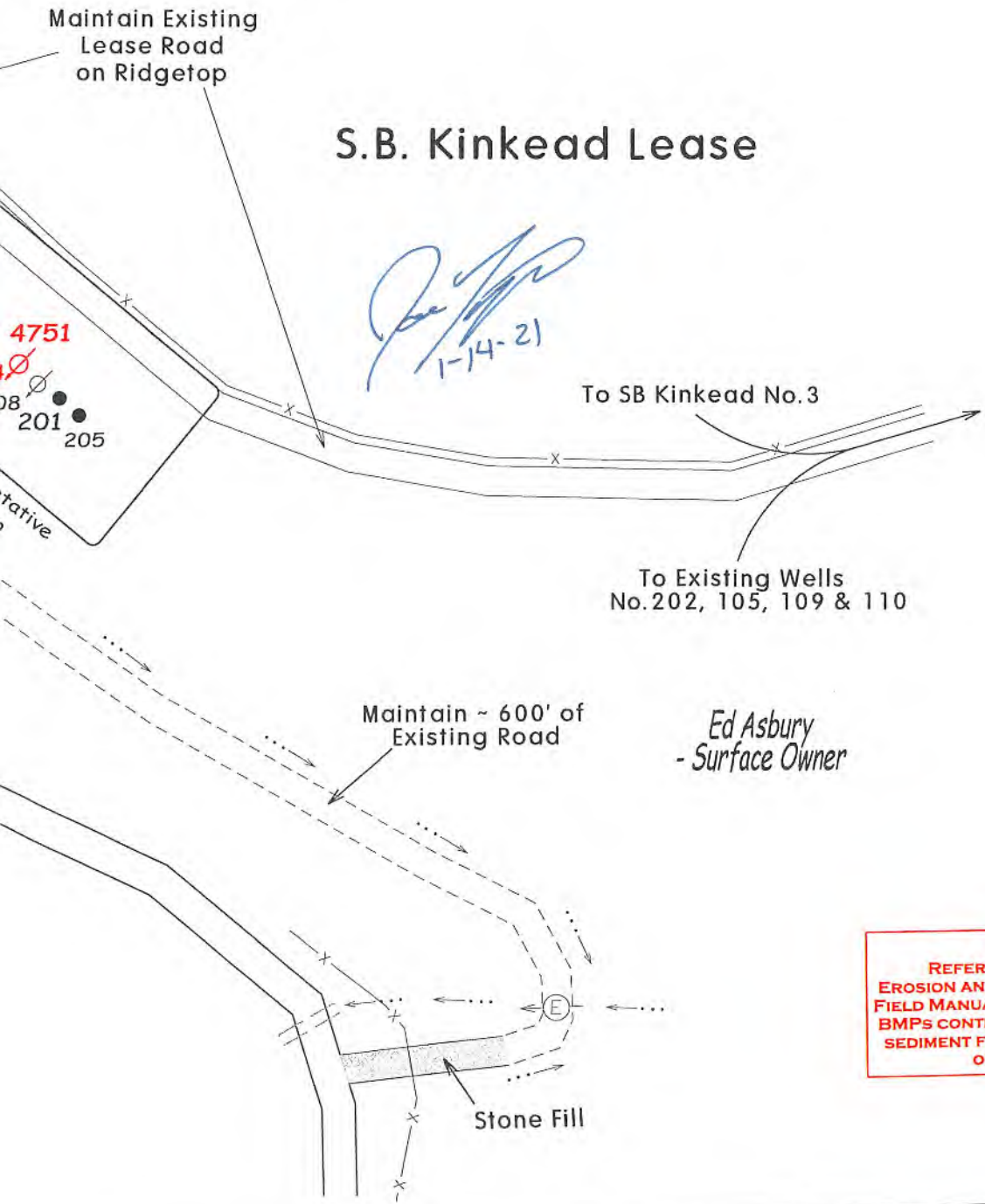
- REQUESTED PERMIT IS FOR RECOMPLETION OF AN EXISTING WELL.
- ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS.
- NO EARTHWORK IS ANTICIPATED FOR REQUESTED WELL WORK
- NO PIT WILL BE REQUIRED FOR REQUESTED WELL WORK.
- ANY DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- DRAWING NOT TO SCALE.

04/09/2021

Reclamation Plan For:

S.B. Kinkead No. 104 47-087-4751

Ed Asbury
- Surface Owner



S.B. Kinkead Lease

[Handwritten Signature]
1-14-21

Ed Asbury
- Surface Owner

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NOTE
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).

2 - Surface owners and adjacent information obtained from the Roane County Assessor's tax records.

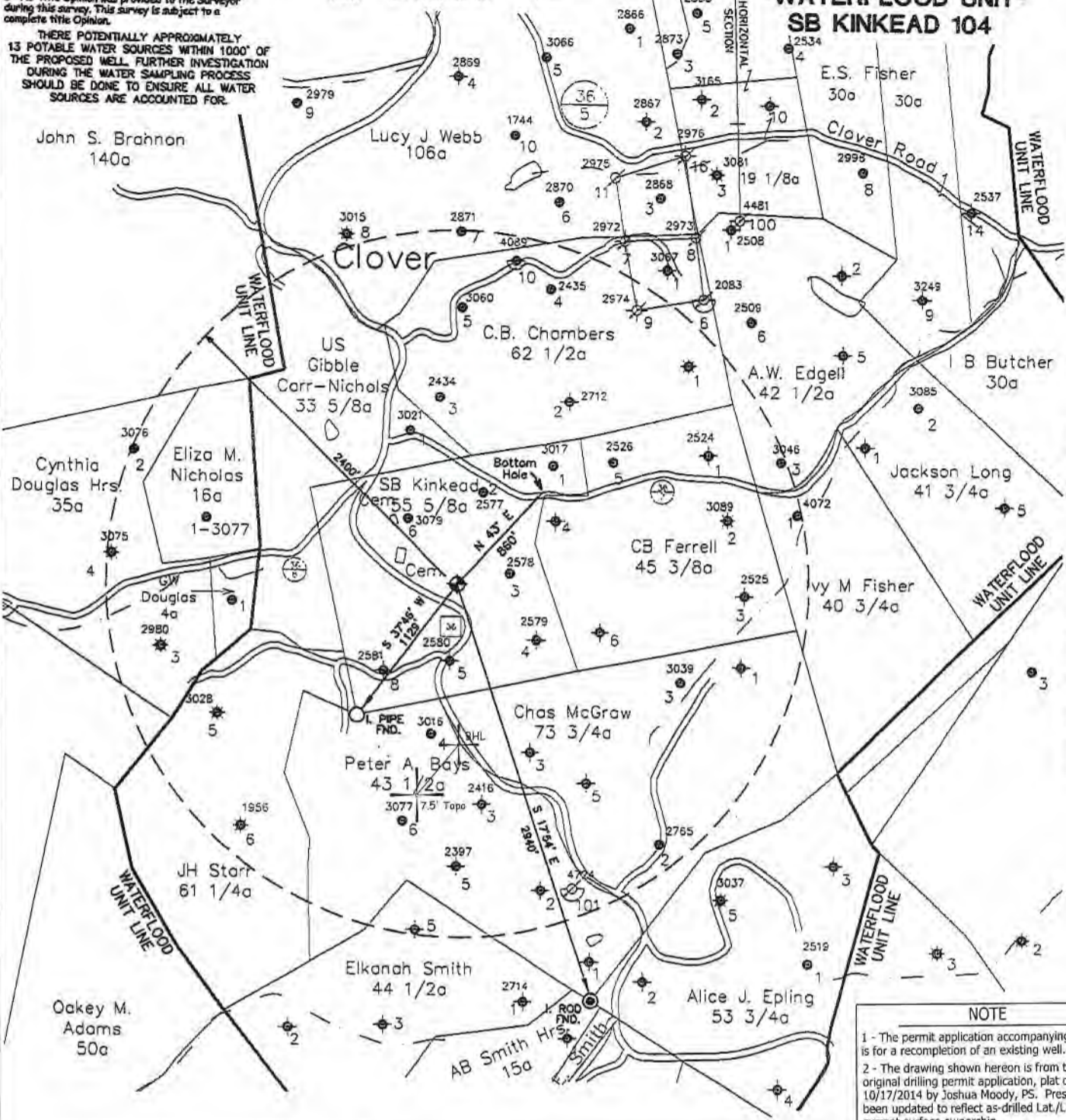
3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete Title Opinion.

THERE POTENTIALLY APPROXIMATELY 13 POTABLE WATER SOURCES WITHIN 1000' OF THE PROPOSED WELL. FURTHER INVESTIGATION DURING THE WATER SAMPLING PROCESS SHOULD BE DONE TO ENSURE ALL WATER SOURCES ARE ACCOUNTED FOR.

Well Coordinates
 UTM NAD 83 (mtr)
 Surface N - 4,285,358 m.
 E - 475,277 m.
 Bottom Hole N - 4,285,563 m.
 E - 475,453 m.

Existing Well

**MAP OF
 H.G. ENERGY, LLC
 -WATERFLOOD UNIT-
 SB KINKEAD 104**



BHL As Drilled Latitude = 38° 43' 05.8"
 BHL As Drilled Longitude = 81° 16' 57.1"

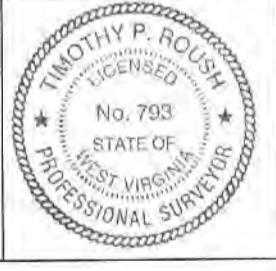
12,226'

As Drilled Latitude = 38° 42' 59.2"

NOTE
 1 - The permit application accompanying this plat is for a recompletion of an existing well.
 2 - The drawing shown hereon is from the original drilling permit application, plat dated 10/17/2014 by Joshua Moody, PS. Present plat has been updated to reflect as-drilled Lat./Long. and current surface ownership.

FILE NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY _____
 PROVEN SOURCE OF ELEVATION DGPS Survey (Sub-Meter Mapping Grade)

I, 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]*
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25301

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1,120' WATERSHED Rush Run
 DISTRICT Smithfield COUNTY Roane
 QUADRANGLE Looneyville 7.5'

SURFACE OWNER Ed Asbury ACREAGE 22 Ac.
 OIL & GAS ROYALTY OWNER Appalachian Royalties, et al. LEASE ACREAGE 56 Ac.
 LEASE NO. _____

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Big Injun ESTIMATED DEPTH 2,650' MD

WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White
 ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road
 Parkersburg, WV 26101 Parkersburg, WV 26101



DATE November 30, 2020
 FARM S.B. Kinkead No.104
 API WELL NO. 47 - 087 - 04751 W

04/09/2021

As-Drilled Longitude = 81°17' 04.3"

9,851'

LATITUDE 38° 45' 00"

LONGITUDE 81° 15' 00"

1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).

2 - Surface owners and adjacent information obtained from the Roane County Assessor's tax records.

3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete Title Opinion.

THERE POTENTIALLY APPROXIMATELY 13 POTABLE WATER SOURCES WITHIN 1000' OF THE PROPOSED WELL. FURTHER INVESTIGATION DURING THE WATER SAMPLING PROCESS SHOULD BE DONE TO ENSURE ALL WATER SOURCES ARE ACCOUNTED FOR.

Well Coordinates

UTM NAD 83 (mtr)

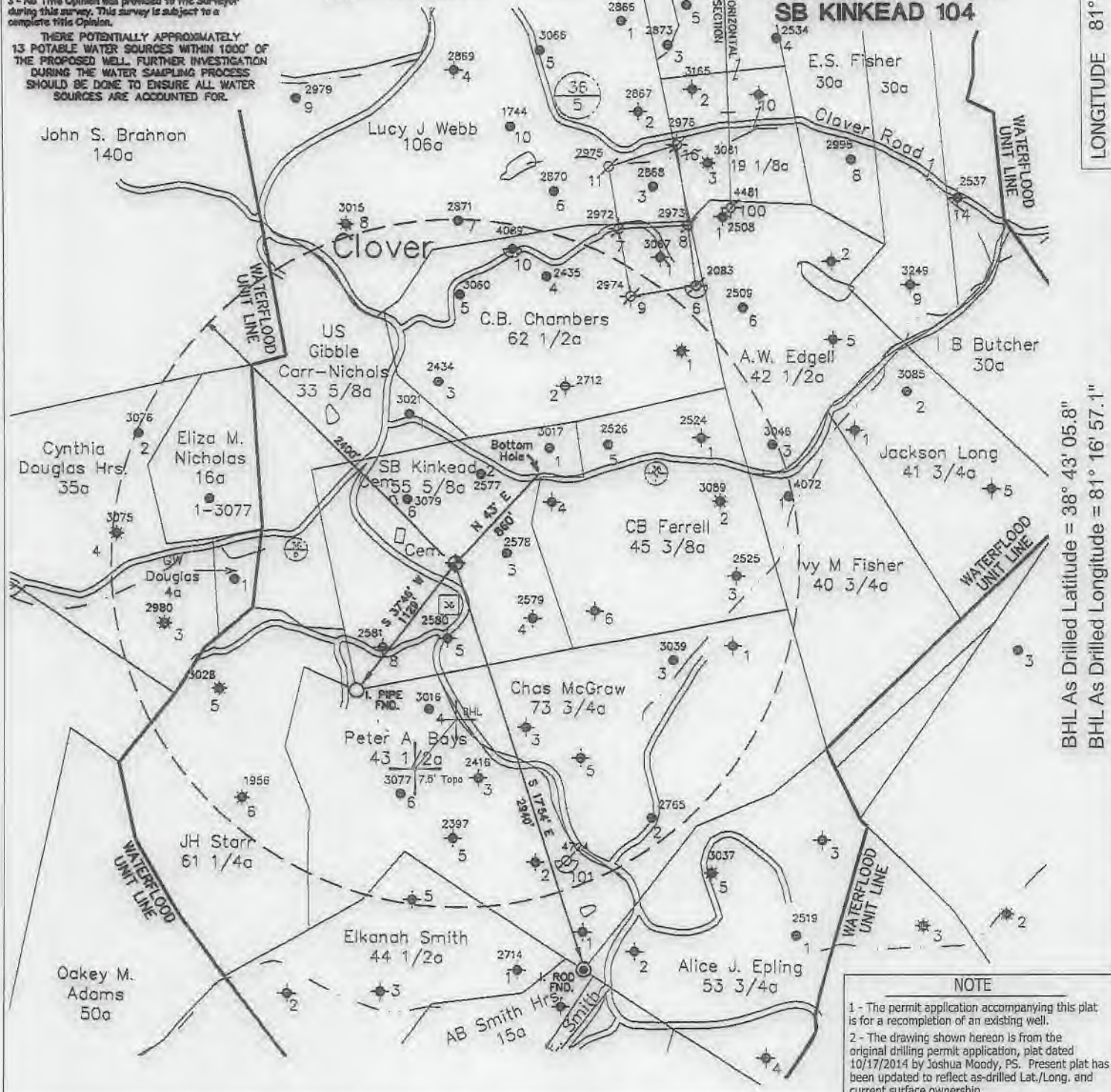
Surface N - 4,285,358 m.

E - 475,277 m.

Bottom Hole N - 4,285,563 m.

E - 475,453 m.

MAP OF H.G. ENERGY, LLC - WATERFLOOD UNIT - SB KINKEAD 104



BHL As Drilled Latitude = 38° 43' 05.8"
BHL As Drilled Longitude = 81° 16' 57.1"

12,226'

As Drilled Latitude = 38° 42' 59.2"

NOTE
1 - The permit application accompanying this plat is for a recompletion of an existing well.
2 - The drawing shown hereon is from the original drilling permit application, plat dated 10/17/2014 by Joshua Moody, PS. Present plat has been updated to reflect as-drilled Lat./Long. and current surface ownership.

FILE NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY _____
PROVEN SOURCE OF ELEVATION DGPS Survey
(Sub-Meter Mapping Grade)

I, 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) *Timothy P. Roush*
TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, West Virginia 25301



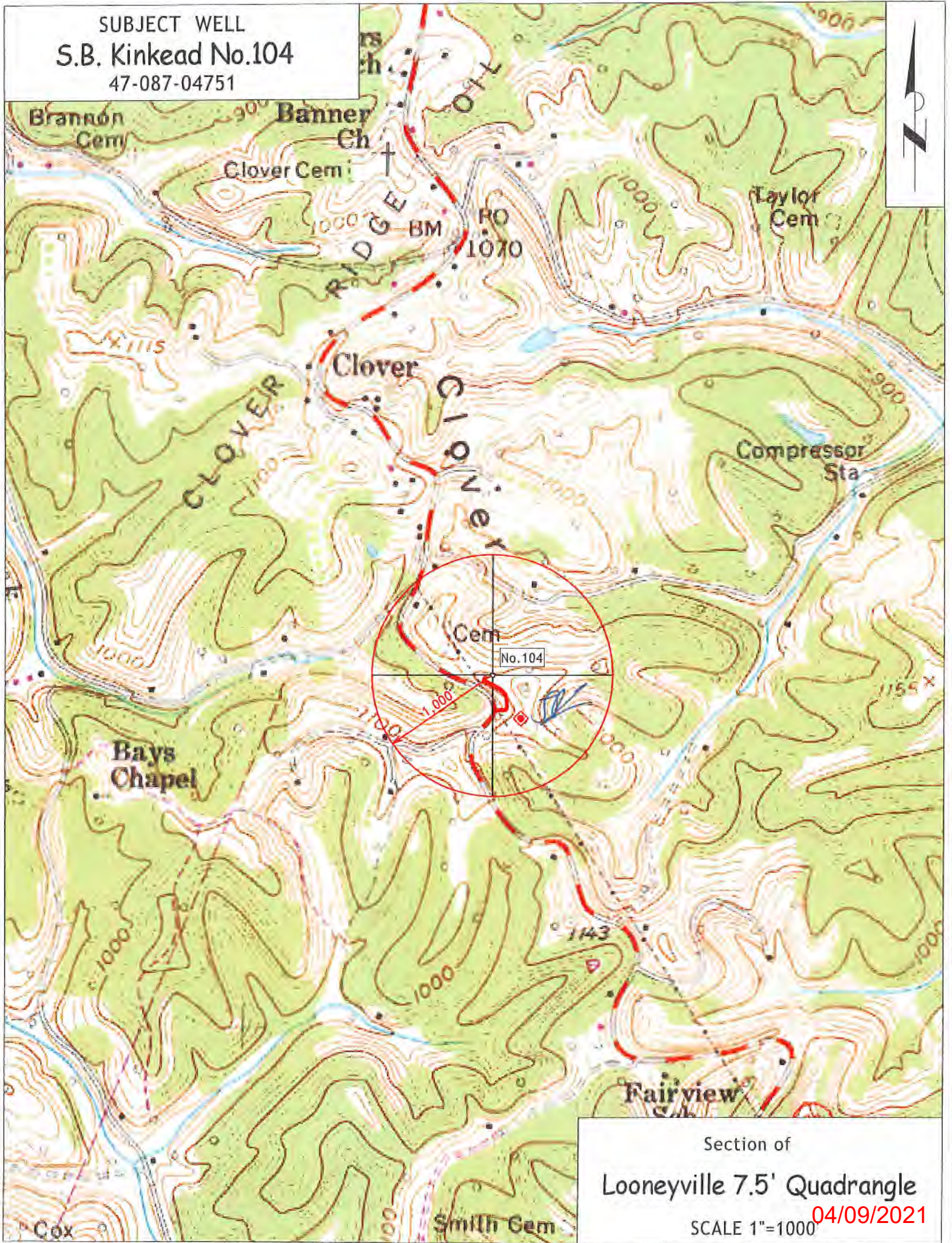
DATE November 30, 2020
FARM S.B. Kinkead No.104
API WELL NO. 47 - 087 - 04751W

04/09/2021

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1,120' WATERSHED Rush Run
DISTRICT Smithfield COUNTY Roane
QUADRANGLE Looneyville 7.5'
SURFACE OWNER Ed Asbury ACREAGE 22 Ac.
OIL & GAS ROYALTY OWNER Appalachian Royalties, et al. LEASE ACREAGE 56 Ac.
LEASE NO. _____
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Big Injun ESTIMATED DEPTH 2,650' MD
WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White
ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

FORM IV-6

SUBJECT WELL
S.B. Kinkead No.104
47-087-04751



Section of
Looneyville 7.5' Quadrangle
SCALE 1"=1000
04/09/2021

87-04751 R



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

4708704751W

January 8, 2021

Mr. Jeff McLaughlin
WVDEP
Division of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

RECEIVED
Office of Oil and Gas

JAN 21 2021

WV Department of
Environmental Protection

RE: S. B. Kinkead No. 104 (47-087-04751)
Smithfield District, Roane County
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to stimulate the above captioned injection well. Also enclosed is our check in the amount of \$550.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Ed Ashbury – Certified
Joe Taylor – DEP Inspector

*Chk# 4895
Amt \$ 550
Date 1/12/21*

04/09/2021