



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

Tuesday, April 19, 2022
WELL WORK PERMIT
Vertical / New Drill

HG ENERGY, LLC
5260 DUPONT ROAD
PARKERSBURG, WV 26101

Re: Permit approval for C. B. FERRELL 132
47-087-04800-00-00

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', is written over a printed name and title.
James A. Martin
Chief

Operator's Well Number: C. B. FERRELL 132
Farm Name: RICHARD & ROLAND FISHI
U.S. WELL NUMBER: 47-087-04800-00-00
Vertical New Drill
Date Issued: 4/19/2022

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 on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

47087048005
RECEIVED
Office of Oil and Gas

MAR 23 2022

FORM WW-3 (B)
1/12



1) Date: 03/09/2022
2) Operator's Well No. C B Ferrell 132
3) API Well No.: 47 - 087 - s
State County Permit
4) UIC Permit No. UIC2R08703005AP

WV Department of
Environmental Protection

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: 1053' Watershed: Edgell Fork
District: Smithfield County Roane Quadrangle Looneyville 7.5'
7) WELL OPERATOR: HG Energy, LLC 8) DESIGNATED AGENT Diane White
Address 5280 Dupont Road Address 5280 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101
9) OIL & GAS INSPECTOR TO BE NOTIFIED 10) DRILLING CONTRACTOR
Name Joe Taylor Name To Be Determined Upon Approval of the Permit
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 2090' MD Feet (top) to 2145' MD Feet (bottom)
13) Estimated Depth of Completed Well, (or actual depth of existing well): 2300' MD Feet
14) Approximate water strata depths: Fresh NA Feet Salt 1640' 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 2850 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 and charcoal bed filters
22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL NA

23) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL - UP OR SACKS (CU. FT.)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left In Well		
Conductor	13 3/8"	LS	54#	x		15'	15'		Kinds
Fresh Water	7"	LS	17#	X		450'	450'	CTS	Tension
Coal									Sizes
Intermediate									2.375" x 4"
Production	4 1/2"	J-55	10.5#	X		2300'	2300'	250 sks	Depths set
Tubing	2 3/8"	J-55	4.0#	X		2100'	2100'		2000'
Liners									Perforations
									Top Bottom

24) APPLICANT'S OPERATING RIGHTS were acquired from Ch B Ferrell et al
by deed / lease x / other contract / dated 11/06/2014 of record in the
Lincoln County Clerk's office in Lease Book 16 Page 440

[Handwritten Signature]
3-17-22

04/22/2022

FORM WW-3 (A)
1/12



1) Date: March 9, 2022
2) Operator's Well No. C B Ferrell 132
3) API Well No.: 47 - -
State County Permit
4) UIC Permit No. UIC2R08700005AP

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

5) Surface Owner(S) To Be Served
(a) Name Richard and Roland Fisher
Address 4513 Clay Road
Spencer, WV 25276
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Joe Taylor
Address 1478 Claylick Road
Ripley, WV 25271
Telephone 304-380-7469

7) (a) Coal Operator
Name NA
Address _____
7) (b) Coal Owner(S) With Declaration Of Record
Name NA
Address _____
Name _____
Address _____
7) (c) Coal Lessee with Declaration Of Record
Name NA
Address _____

RECEIVED
Office of Oil and Gas
MAR 23 2022
WV Department of
Environmental Protection

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

- (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is 20 22.

THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B)) DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments 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 and imprisonment.

Well Operator HG Energy, LLC
Address 5280 Dupont Road
Parkersburg, WV 26101
By: Diane White
Its: Accountant
Signature: Diane White



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

47087048005

March 9, 2022

Richard and Roland Fisher
4513 Clay Road
Spencer, WV 25276

RE: C. B. Ferrell No. 132
Smithfield District, Roane County
West Virginia

Dear Sirs,

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

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Office of Oil and Gas
MAR 23 2022
WV Department of
Environmental Protection

04/22/2022

7021 2720 0002 0050 0367

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ 5.07

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 \$ _____

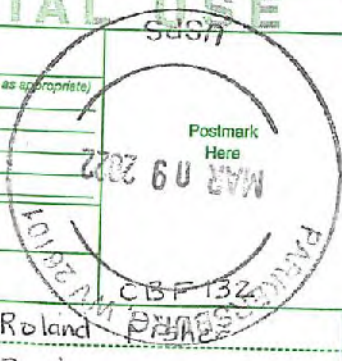
Total Postage and Fees \$ _____

Sent To Richard and Roland

Street and Apt. No., or PO Box No. 4513 Clay Road

City, State, ZIP+4® Spencer WV 25276

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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Office of Oil and Gas

MAR 23 2022

WV Department of
Environmental Protection

WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County 087 Operator HG Energy, LLC
Operator well number C B Ferrell 132

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A / 3A

The well operator named on page WW-2A / 3A is applying for a permit from the State to do oil or gas well work. (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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) 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.
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;
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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A / 3A, and attachments consisting of pages 1 through ___ including a work order on Form WW-2B / 3A, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the 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

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date

Company Name By Its Date

Print Name

Signature Date

RECEIVED Office of Oil and Gas MAR 23 2022 WV Department of Environmental Protection

04/23/2022 [Signature]

WW-9
(2/15)

API Number 47 - _____
Operator's Well No. C B Ferrell 132

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) Edgell Fork 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

If so, please describe anticipated pit waste: Fluids encountered while drilling subject well

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 mil

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 _____)

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

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

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

Additives to be used in drilling medium? Water, Soap, KCl

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Offsite Disposal at a DEP Approved Landfill

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

-Landfill or offsite name/permit number? To Be Determined Upon Approval of Permit

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 Accountant

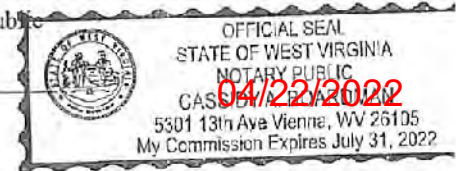
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Office of Oil and Gas
MAR 23 2022
WV Department of
Environmental Protection

[Handwritten Signature]
3-17-22

Subscribed and sworn before me this 9th day of March, 2022

Cassidy Boudreau Notary Public

My commission expires 7/31/2022



HG Energy, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.5 acres 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 and Erosion Control will be in place 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: Joe Taylor

Comments: _____

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Office of Oil and Gas

MAR 23 2022

WV Department of
Environmental Protection

Title: oog inspector

Date: 3-17-22

Field Reviewed? Yes No

47087048005

WW-2B1
(5-12)

Well No. C B Ferrell 132

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.


Certified Laboratory Name	<u>Sturm Environmental Labs</u>
Sampling Contractor	<u>Sturm Environmental Labs</u>
Well Operator	<u>HG Energy, LLC</u>
Address	<u>5260 Dupont Road</u> <u>Parkersburg, WV 26101</u>
Telephone	<u>304-420-1119</u>

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Office of Oil and Gas
MAR 23 2022
WV Department of Environmental Protection

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Richard Fisher
4513 Clay Road
Spencer WV 25276

Willie King
PO Box 645
Spencer WV 25276


04/22/2022

Reclamation Plan For: C.B. Ferrell No. 132



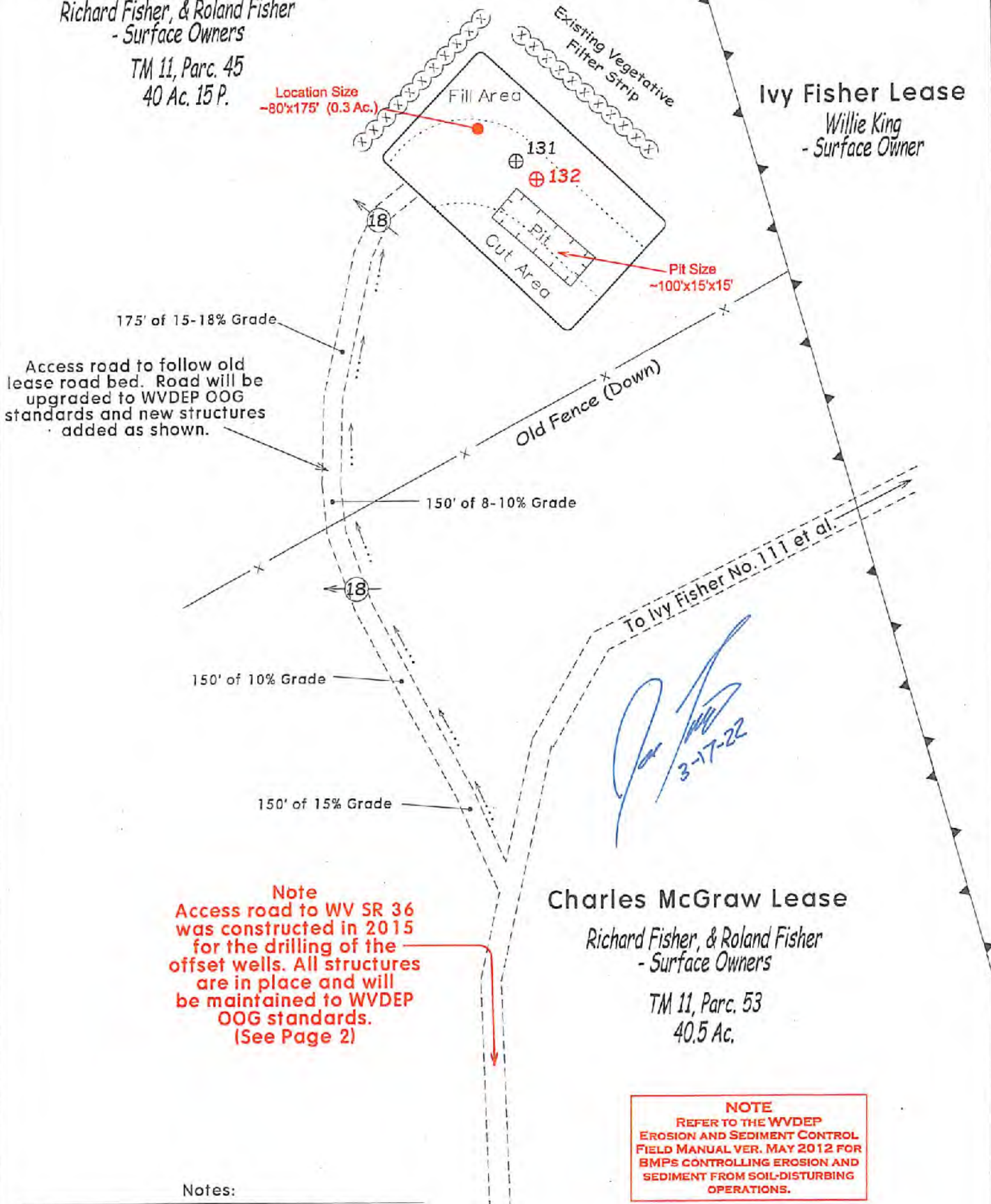
Charles McGraw Lease

Richard Fisher, & Roland Fisher
- Surface Owners

TM 11, Parc. 45
40 Ac. 15 P.

Ivy Fisher Lease

Willie King
- Surface Owner



175' of 15-18% Grade

Access road to follow old lease road bed. Road will be upgraded to WVDEP OOG standards and new structures added as shown.

150' of 8-10% Grade

150' of 10% Grade

150' of 15% Grade

Note
Access road to WV SR 36 was constructed in 2015 for the drilling of the offset wells. All structures are in place and will be maintained to WVDEP OOG standards. (See Page 2)

Charles McGraw Lease

Richard Fisher, & Roland Fisher
- Surface Owners

TM 11, Parc. 53
40.5 Ac.

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

Notes:

- REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- SOME ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS. NEW STRUCTURES WILL BE INSTALLED AS SHOWN.
- STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION DURING RECLAMATION
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- ALL ROAD GRADES <5% EXCEPT AS NOTED.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

04/22/2022

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Office of Oil and Gas

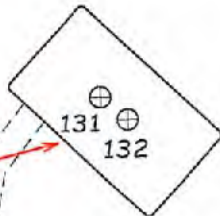
MAR 23 2022

WV Department of
Environmental Protection

Ivy Fisher Lease

Willie King
- Surface Owner

See Reclamation
Plan Page 1 for
Detail to Proposed
Location for Chas.
McGraw No. 131 &
C.B Ferrell No. 132.



To Ivy Fisher No. 111 et al.

UNIT

Charles McGraw Lease

Richard and Roland Fisher
Surface Owners

Shooting House

Maintain Existing
Access Road

Field

WATERFLOOD

L.D. Webb

Garages

Fisher
Residence

36

3037
5

Alice J. Epling Lease

Richard and Roland Fisher
Surface Owners

[Handwritten Signature]
3-17-22



Existing Wells

CLOVER

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

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Office of Oil and Gas

MAR 23 2022

WV Department of
Environment **04/22/2022**



CLOVER WATERFLOOD

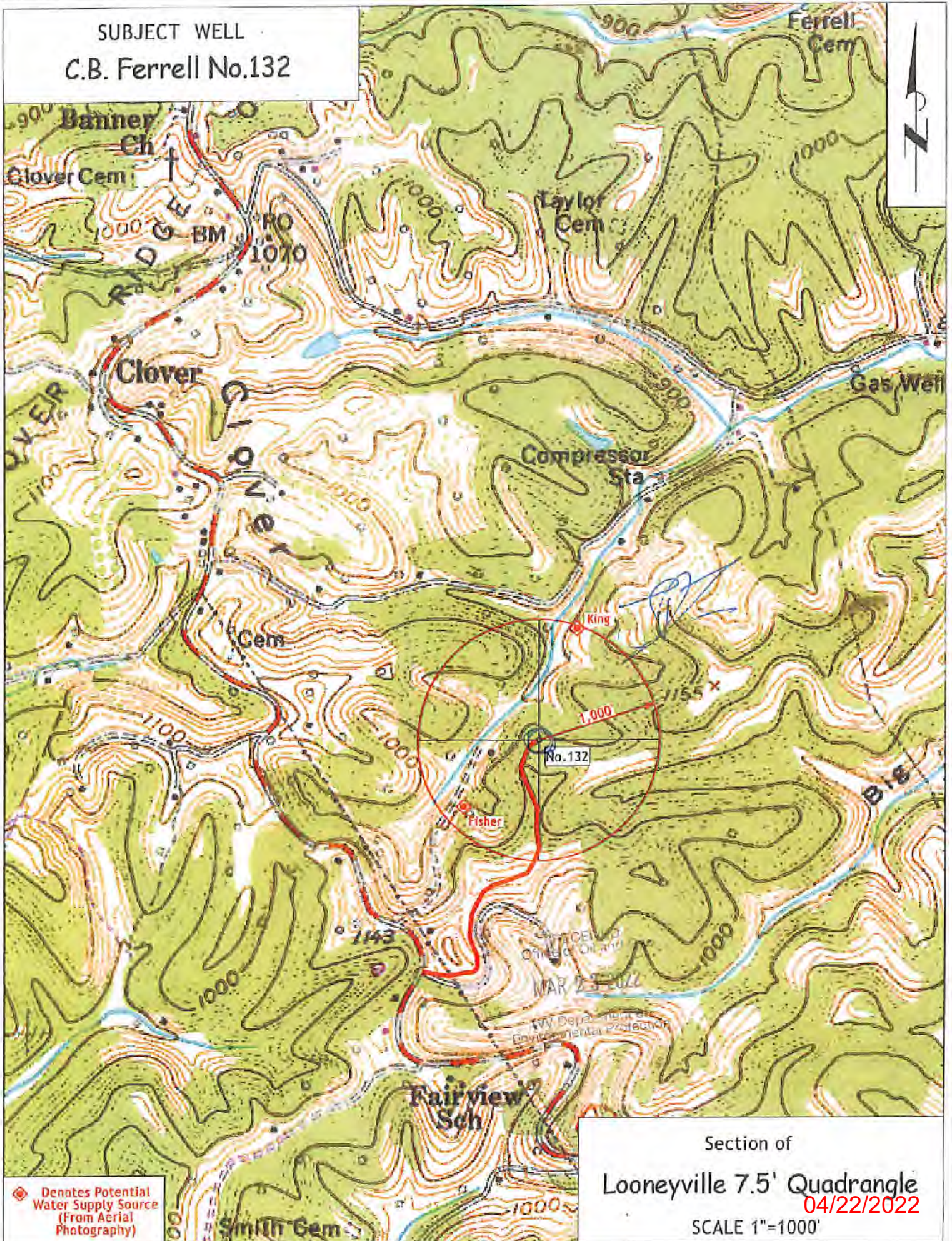
Roane County, W.Va.

RECLAMATION PLAN
SHOWING EXISTING ROADS
TO BE USED FOR ACCESS
TO WV S.R. 36

Notes:

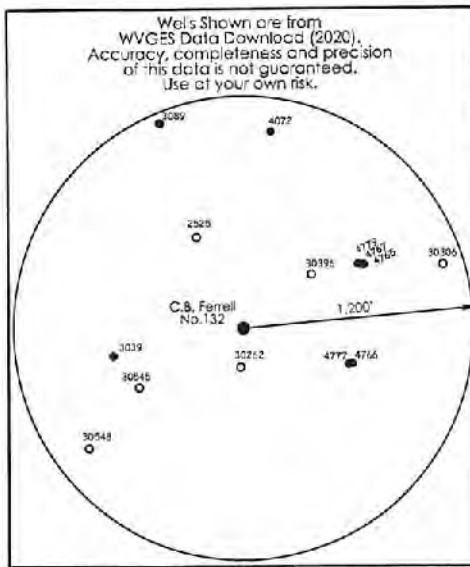
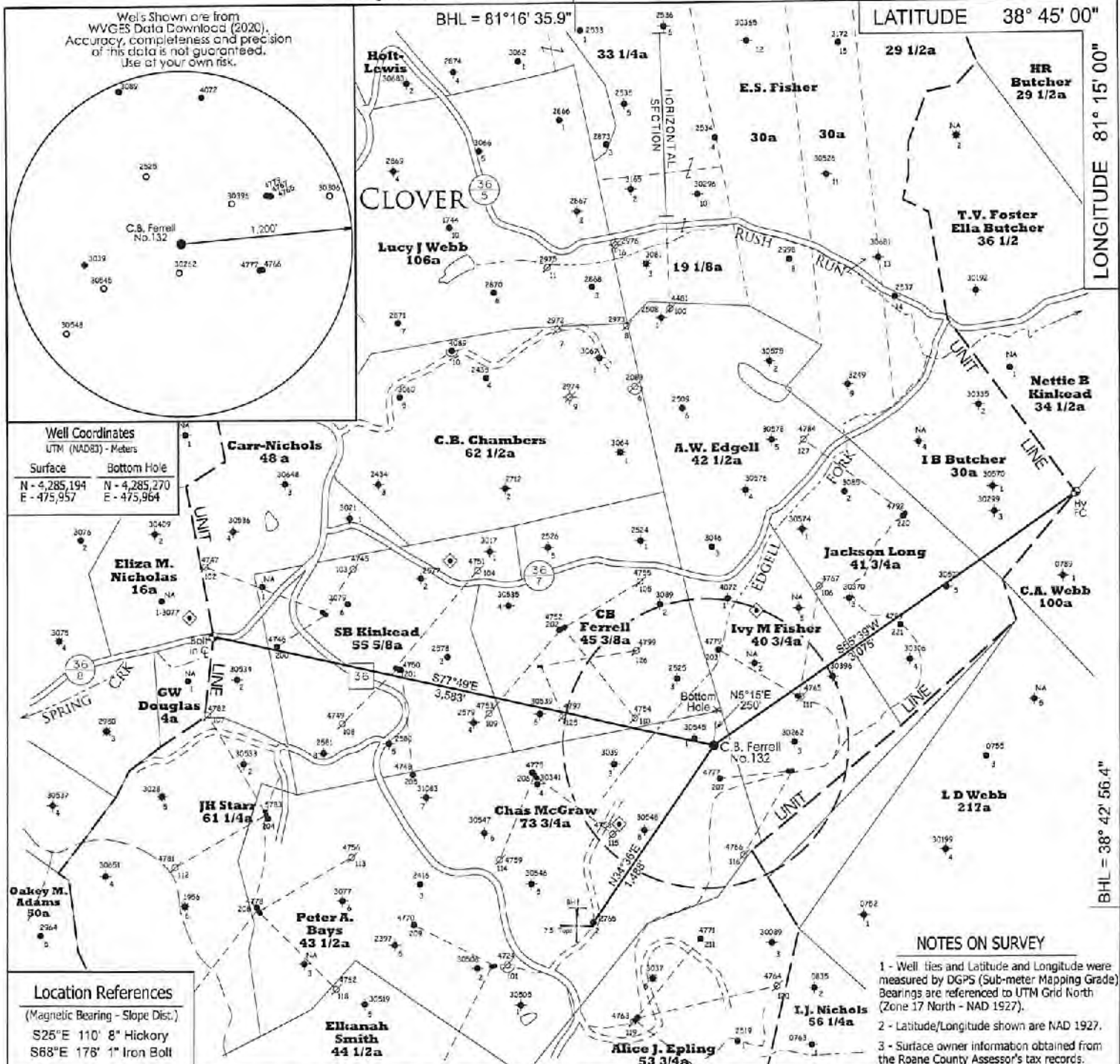
- REQUESTED PERMIT IS FOR DRILLING OF NEW WELLS.
- ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS.
- STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION DURING RECLAMATION
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- DRAWING NOT TO SCALE.

SUBJECT WELL
C.B. Ferrell No.132



Denotes Potential Water Supply Source (From Aerial Photography)

Section of
Looneyville 7.5' Quadrangle
04/22/2022
SCALE 1"=1000'



Well Coordinates	
UTM (NAD83) - Meters	
Surface	Bottom Hole
N - 4,285,194	N - 4,285,270
E - 475,957	E - 475,964

Location References	
(Magnetic Bearing - Slope Dist.)	
S25°E 110' 8"	Hickory
S68°E 178' 1"	Iron Bolt

- NOTES ON SURVEY**
- 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 - Latitude/Longitude shown are NAD 1927.
 - 3 - Surface owner information obtained from the Roane County Assessor's tax records.

- DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.
- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. 1534

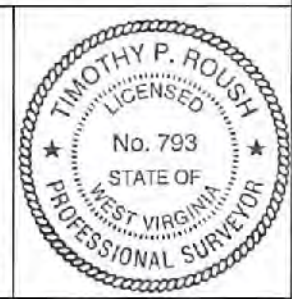
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY Sub-Meter

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 1,053' WATERSHED Edgell Fork
DISTRICT Smithfield COUNTY Roane
QUADRANGLE Looneyville 7.5'

SURFACE OWNER Richard & Roland Fisher ACREAGE 40 & 40.5 Ac.

OIL & GAS ROYALTY OWNER HG Energy, LLC., et al LEASE ACREAGE 45 Ac. LEASE NO. 62217-50

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 2,300' 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 March 8, 2022

FARM C.B. Ferrell No.132

API WELL NO. 47 - 087 - 04800 S

RECEIVED
Office of Oil and Gas
MAR 23 2022
WV Department of Environmental Protection

NOTE: Well will be drilled directionally as shown on the plat above.

FORM IV-6

Longitude = 81° 15' 00" 12,756'
Latitude = 38° 42' 53.91"

Longitude = 81°16' 36.18"

7,620'

LATITUDE 38° 45' 00"

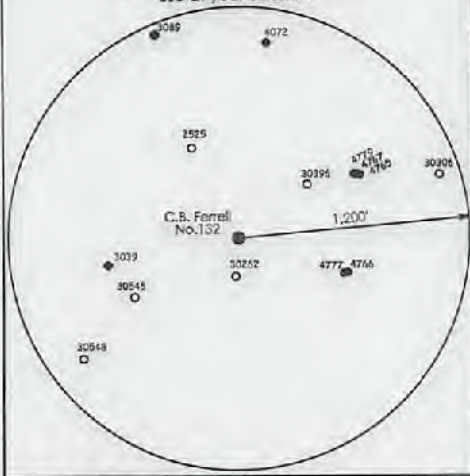
LONGITUDE 81° 15' 00"

12,756'

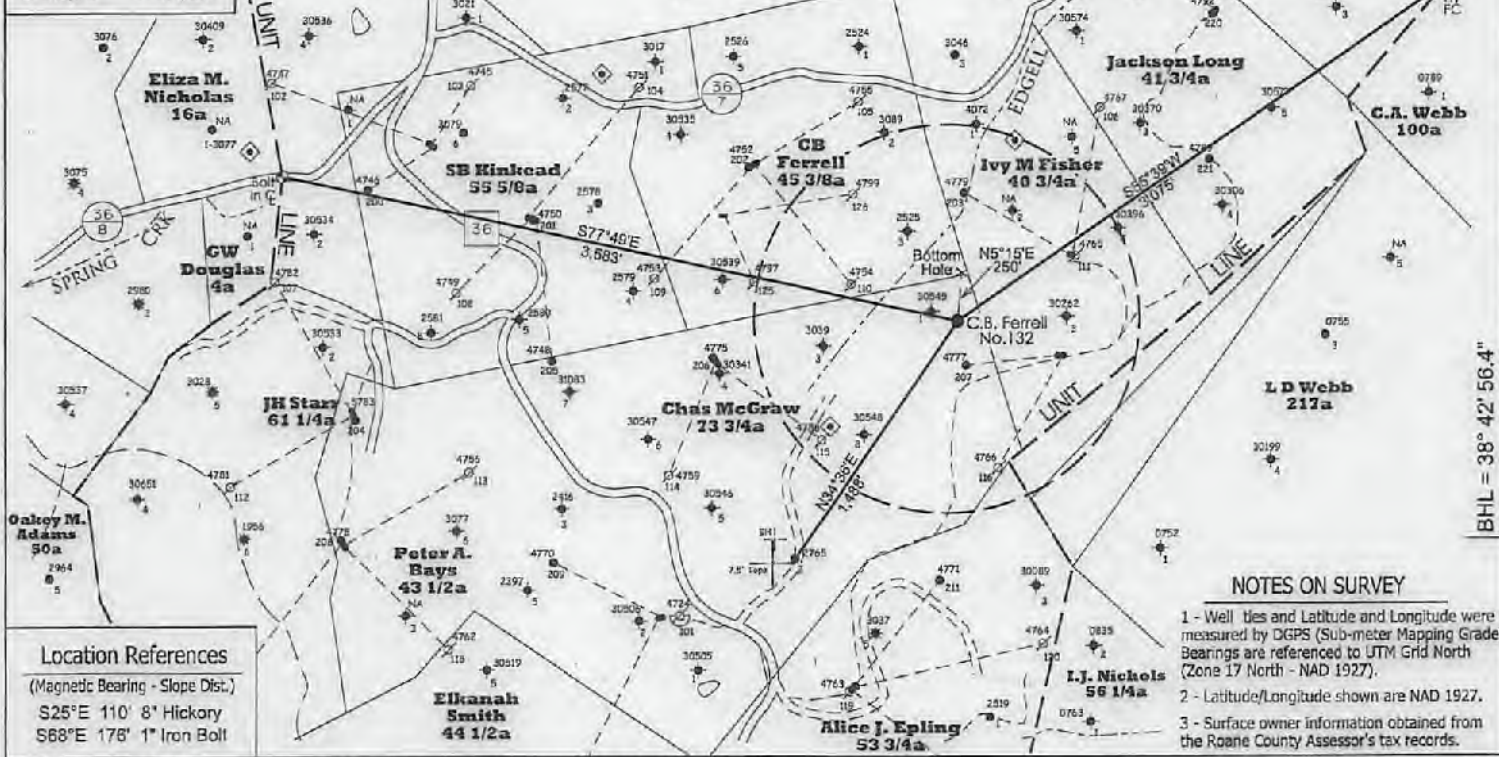
BHL = 38° 42' 56.4"

Latitude = 38° 42' 53.91"

Wells Shown are from WVGES Data Download (2020). Accuracy, completeness and precision of this data is not guaranteed. Use at your own risk.



Well Coordinates	
UTM (NAD83) - Meters	
Surface	Bottom Hole
N - 4,285,194	N - 4,285,270
E - 475,957	E - 475,964



Location References	
(Magnetic Bearing - Slope Dist.)	
S25°E 110' 8" Hickory	
S68°E 176' 1" Iron Boll	

NOTES ON SURVEY

- 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 - Latitude/Longitude shown are NAD 1927.
- 3 - Surface owner information obtained from the Roane County Assessor's tax records.

- DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.
- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. 1534

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY Sub-Meter

PROVEN SOURCE OF ELEVATION DGPS Survey
(Sub-Meter Mapping Grade)

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(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



DATE March 8, 2022

FARM C.B. Ferrell No.132

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PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION Big Injun ESTIMATED DEPTH 2,300' MD

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

04/22/2022

FORM IV-6

Diane White

From: Diane White
Sent: Wednesday, March 9, 2022 9:34 AM
To: Vickie Hoops (vhoops@sturmenvironmental.com)
Cc: Missy Hoops
Subject: Possible Water Sources to be Tested in Spencer, WV for the CB Ferrell 132 Injection Well Site
Attachments: 20220309091610913.pdf

Vicki,

Good morning. Please see attached for information for sampling/testing possible water wells close to a proposed well site. These locations have been tested in the past, but DEP regulations require we test or at least attempt to offer to test them again. If they don't want testing or don't respond to your efforts please note that on the forms. This is pre-drill testing.

Let me know if you have any questions.

Thank You,
Diane

Diane C White



HG Energy, LLC

5260 Dupont Road
Parkersburg, WV 26101
304-420-1119 (O)
304-482-0108 (C)

dwhite@hgeneryllc.com
<https://hgeneryllc.com>

RECEIVED
Office of Oil and Gas

MAR 23 2022

WV Department of
Environmental Protection



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

47-097-048005

March 9, 2022

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

ck# 651450
\$650.00

RECEIVED
Office of Oil and Gas
MAR 23 2022
WV Department of
Environmental Protection

RE: C. B. Ferrell No. 132
Smithfield District, Roane County
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to drill the above referenced injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Richard and Roland Fisher – Certified
Joe Taylor – WV DEP Inspector

04/22/2022



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Secondary Recover Vertical Well Work Permit API: 47-087-04800 & 47-087-04805) Correction

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Apr 19, 2022 at 2:01 PM

To: Diane White <dwhite@hgenergyllc.com>, Emily Westfall <ewestfall@wvassessor.com>, "Taylor, Joseph D" <joseph.d.taylor@wv.gov>

Correction to the Subject line. These are not plugging permits.

----- Forwarded message -----

From: **Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Date: Tue, Apr 19, 2022 at 1:57 PM

Subject: Plugging Vertical Well Work Permit API: 47-087-04800 & 47-087-04805)

To: Diane White <dwhite@hgenergyllc.com>, Emily Westfall <ewestfall@wvassessor.com>, Taylor, Joseph D <joseph.d.taylor@wv.gov>

I have attached a copy of the newly issued well permit number. This will serve as your copy.

47-087-04800 - C B FERRELL 132

47-087-04805 - CHARLES MCGRAW 131

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

4 attachments

47-087-04800 - Copy.pdf
1834K

47-087-04805 - Copy.pdf
1872K

IR-26 Blank.pdf
169K

IR-26 Blank.pdf
169K

04/22/2022