



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

Wednesday, June 22, 2022
WELL WORK PERMIT
Vertical / Convert

HG ENERGY, LLC
5260 DUPONT ROAD
PARKERSBURG, WV 26101

Re: Permit approval for C. MCGRAW 207
47-087-04777-00-00

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.

James A. Martin
Chief

Operator's Well Number: C. MCGRAW 207
Farm Name: KING, WILLIE
U.S. WELL NUMBER: 47-087-04777-00-00
Vertical Convert
Date Issued: 6/22/2022

Promoting a healthy environment.

06/24/2022

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.

4708704777S

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Office of Oil and Gas

MAY 13 2022

FORM WV-3 (11/12)
Environmental Protection



- 1) Date: 05/03/2022
- 2) Operator's Well No. Charles McGraw 207
- 3) API Well No.: 47 - Roane - 04777
State County Permit
- 4) UIC Permit No. 2R087C0005AP

**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: 1057' 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 26271
- 11) PROPOSED WELL WORK Drill / Drill deeper / Redrill / Stimulate
Plug off old formation / Perforate new formation / Convert
Other physical change in well (specify) Convert from producer to liquid injection well and stimulate
- 12) GEOLOGIC TARGET FORMATION Big Injun Depth 2173' Feet (top) to 2183' Feet (bottom)
- 13) Estimated Depth of Completed Well, (or actual depth of existing well): 2245' TVD Feet
- 14) Approximate water strata depths: Fresh NA Feet Salt 1710' 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 265C 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

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	11 5/8"	LS	NA		x	30'	30'		Kinds
Fresh Water	7"	LS	17	x		507'	507'	CTS	Tension
Coal									Sizes
Intermediate									2 3/8" x 4"
Production	4 1/2"	J-55	10.5	x		2319.25'	2319.25'	200 sks	Depths set
Tubing	2 3/8"	J-55	4.7	x		2050'	2050'		1900'
Liners									Perforations 4D
									Top Bottom
									2173' 2183'

24) APPLICANT'S OPERATING RIGHTS were acquired from CH McGraw
by deed / lease x / other contract / dated 03/18/1910 of record in the
Roane County Clerk's office in lease Book 17 Page 570

[Handwritten Signature]
5-12-22

06/24/2022

MAY 16 2022

WR-35
Rev. 8/23/13

WV Department of
Environmental Protection

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

API 47-087-04777 County ROANE District SMITHFIELD
Quad LOONEYVILLE 7.5' Pad Name MCGRAW, CHARLES Field/Pool Name CLOVER
Farm name KING, WILLIE Well Number 207
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 4,285,142 M Easting 476,117 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4,285,108 M Easting 466,809 M

Elevation (ft) 1,057' 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

Date permit issued 3/31/15 Date drilling commenced 6/9/15 Date drilling ceased 6/11/15
Date completion activities began 6/24/15 Date completion activities ceased 7/2/15
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 1710' 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:


06/24/2022

WR-35
Rev. 8/23/13

API 47-087 - 04777

Farm name KING, WILLIE

WV Department of Environmental Protection 207

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		Sand In
Surface	8 3/4"	7"	507'	New	LS	64'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2319.25'	New	J-55		Y
Tubing							
Packer type and depth set							

Comment Details Circulated Est. 50 sks to surface on 7" surface cement job. Circulated Est. 35 sks 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	130	15.6	1.18	153	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	90/125	13.2/14.2	1.64/1.27	148/186	78'	8
Tubing							

Drillers TD (ft) 2350' Loggers TD (ft) 2348'
 Deepest formation penetrated Big Injun Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 600'

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

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
20 Centralizers every 60' 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 _____

 06/24/2022

WR-35
Rev. 8/23/13

API 47- 087 - 04777 Farm name KING, WILLIE Well number 207

PRODUCING FORMATION(S)	DEPTHS	
	2069'- 2098'	TVD 2158'- 2190' MD
Big Injun		

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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	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
Sand/Shale	0	1258	0	1276	
Sand	1258	1310	1276	1332	
Shale	1310	1408	1332	1434	
Sand	1408	1437	1434	1467	
Shale	1437	1600	1467	1643	
Sand	1600	1908	1643	1980	
Little Lime	1908	1920	1980	1994	
Pencil Cave	1920	1926	1994	2000	
Big Lime	1926	2046	2000	2132	
Keener	2046	2069	2132	2158	
Big Injun	2069	2096	2158	2190	Drilled directional S 84° W a distance of 488'
Shale	2098	2245	2190	2350	
TD	2245		2350		

Please insert additional pages as applicable.

Drilling Contractor Decker Drilling
 Address 11585 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 Telephone 304-420-1107
 Signature [Signature] Title Operations Manager Date 8/17/15

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

 06/24/2022



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

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Office of Oil and Gas

MAY 16 2022

WV Department of
Environmental Protection

May 3, 2022

Willie King
P. O. Box 645
Spencer, WV 25276

RE: Charles McGraw No. 207
Smithfield District, Roane County
West Virginia

Dear Landowner:

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

06/24/2022

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MAY 16 2022

WV Department of
Environmental Protection

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

\$3.50

Extra Services & Fees (check box, and fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage

\$10.19

Total Postage and Fees

\$13.69

Sent To

Willie Kingham

Street and Apt. No., or PO Box No.

P.O. Box 645

City, State, ZIP+4®

Spencer WV 25276

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



7019 1640 0000 3830 3972

06/24/2022

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Office of Oil and Gas

MAY 16 2022

WV Department of
Environmental Protection
HG Energy, LLC

Charles McGraw 207

WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County Roane

Operator _____
Operator well number _____

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

04777

Print Name

Date _____

Company Name
By _____
Its _____

Date

Signature _____ Date _____



06/24/2022

WW-9 (2/15) RECEIVED Office of Oil and Gas

API Number 47 - 87 - 04777 Operator's Well No. Charles McGraw 207

MAY 16 2022

WV Department of Environmental Protection

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 [x]

Will a pit be used? Yes [] No [x]

If so, please describe anticipated pit waste: NA

Will a synthetic liner be used in the pit? Yes [] No [x] 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

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

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

-Landfill or offsite name/permit number? NA

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

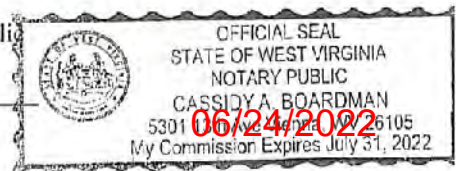
Company Official Title Agent

Subscribed and sworn before me this 3rd day of May, 2022

Cassidy Boardman Notary Public

My commission expires 7/31/2022

Handwritten signature and date 5-12-22



HG Energy, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.5 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

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MAY 16 2022
WV Department of
Environmental Protection

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
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: Joe Taylor

Comments: _____

Title: 006 Inspector

Date: 5-12-22

Field Reviewed? (X) Yes () No

Reclamation Plan For:

Charles McGraw No.207

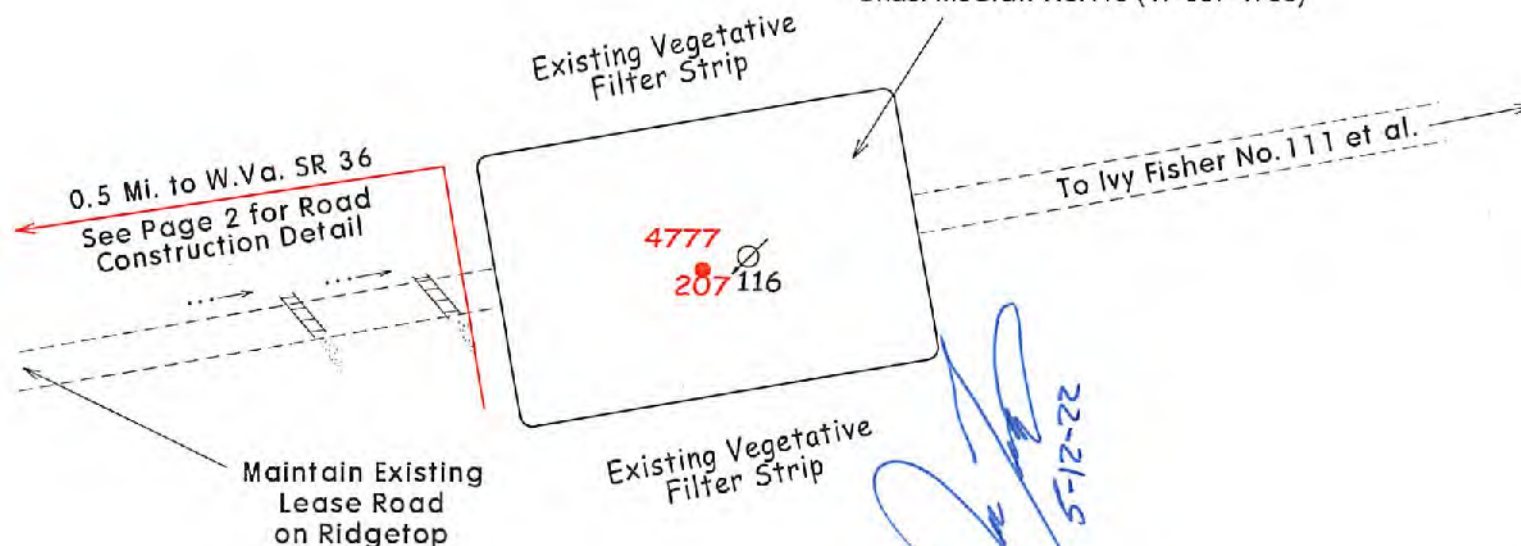
47-087-4777

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Office of Oil and Gas
MAY 16 2012
WV Department of Environmental Protection



EXISTING LOCATION:

Chas. McGraw No.207 (47-087-4777)
Chas. McGraw No.116 (47-087-4766)



Ivy Fisher Lease
Willie King
- Surface

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 CONVERSION 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.

See Page 2 for
Road to Additional Wells

47087047775



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

PROPOSED DRILL SITE FOR:
 Ivy Fisher No.111
 Ivy Fisher No.203
 Jackson Long No.106

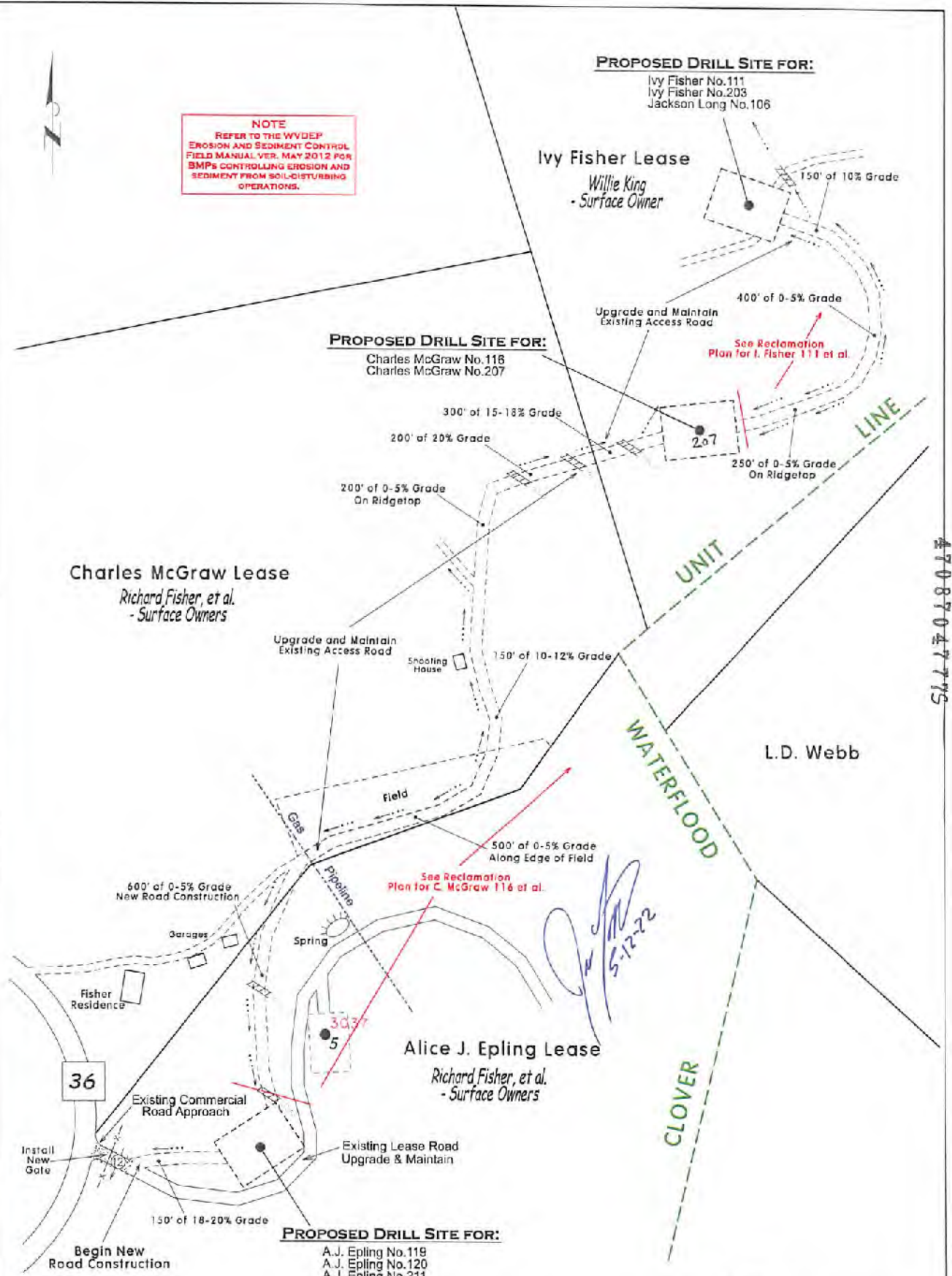
Ivy Fisher Lease
 Willie King
 - Surface Owner

PROPOSED DRILL SITE FOR:
 Charles McGraw No.118
 Charles McGraw No.207

Charles McGraw Lease
 Richard Fisher, et al.
 - Surface Owners

Alice J. Epling Lease
 Richard Fisher, et al.
 - Surface Owners

PROPOSED DRILL SITE FOR:
 A.J. Epling No.119
 A.J. Epling No.120
 A.J. Epling No.211
 A.J. Epling No.215



Notes:

- REQUESTED PERMIT IS FOR DRILLING OF NEW WELLS.
- SOME ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED TO WVDEP STANDARDS. NEW STRUCTURES WILL BE INSTALLED AS SHOWN.
- STOCKPILE TOPSOIL FOR REDRESSING LOCATION DURING RECLAMATION
- ALL DISTURBED AREAS WILL BE REVEGETATED AS OUTLINED ON FORM WW-9.
- WHERE POSSIBLE, OIL, GAS AND WATER PIPELINES AND ELECTRIC LINES WILL BE INSTALLED WITHIN ACCESS ROAD LOD'S UNDER THIS PERMIT
- MAINTAIN SEDIMENT BARRIERS AND GRASS STRIPES THROUGHOUT.
- ALL ROAD GRADES <5% EXCEPT AS NOTED.
- DRAWING NOT TO SCALE.



CLOVER WATERFLOOD
 Boone County, W.Va.
RECLAMATION PLAN
 SHOWING NEW ROAD TO
 BE CONSTRUCTED FOR THE
 2015 DRILLING PROGRAM

RECEIVED
 Office of Oil and Gas
 MAY 16 2022
 WV Department of
 Environmental Protection

06/24/2022

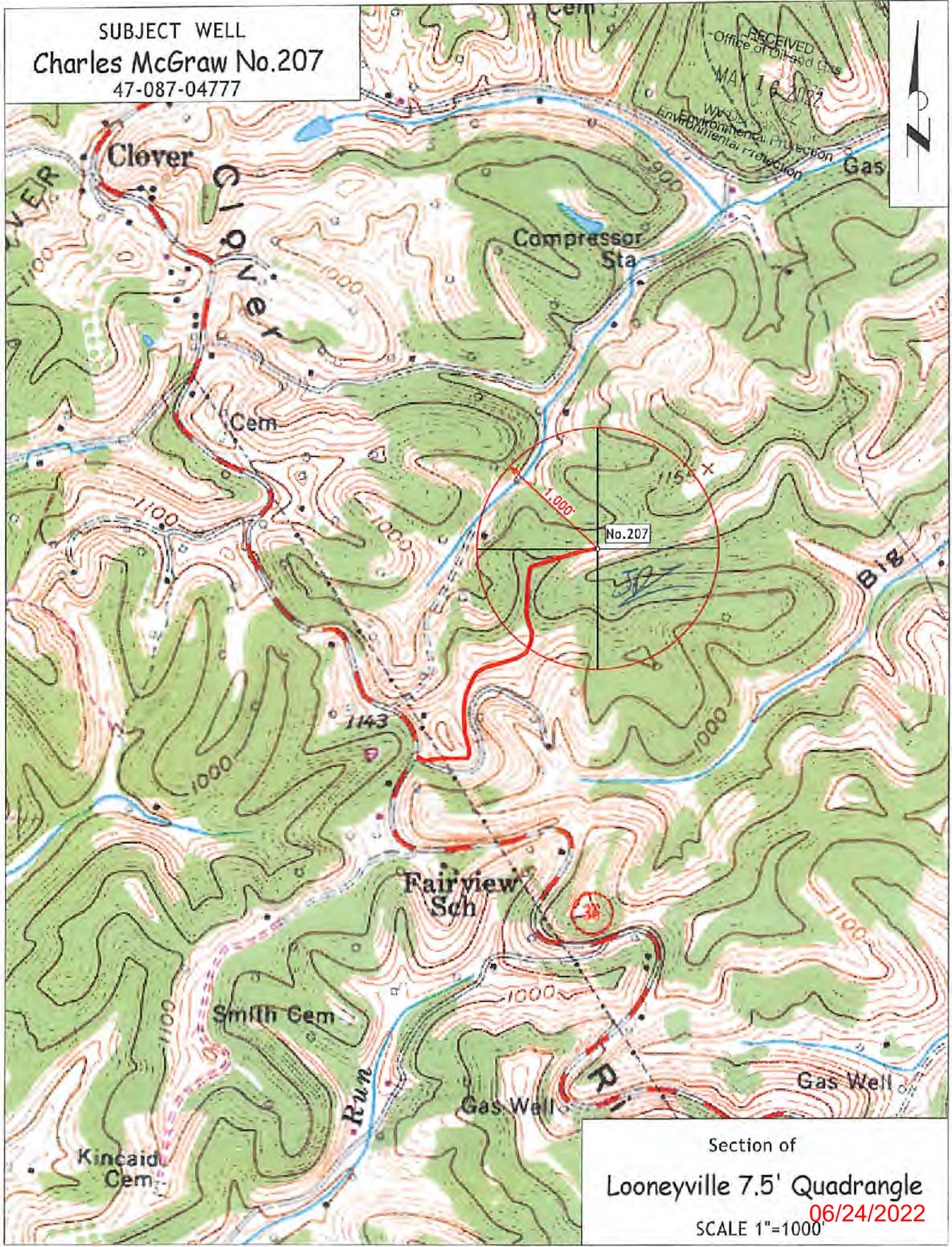
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47087047795

4708704777S

SUBJECT WELL
Charles McGraw No.207
47-087-04777

RECEIVED
Office of Oil and Gas
MAY 16 2022
WYOMING
Environmental Protection



Section of
Looneyville 7.5' Quadrangle
SCALE 1"=1000
06/24/2022

UTM COORDINATES

(Zone 17 -NAD 1983)
Surface N -4,285,140 m.
E -476,118 m.
Bottom N -4,285,125 m.
E -475,972 m.

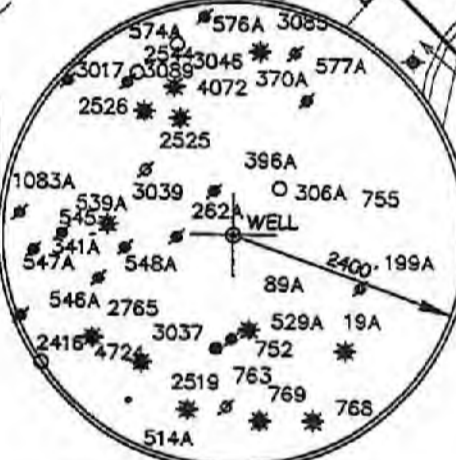
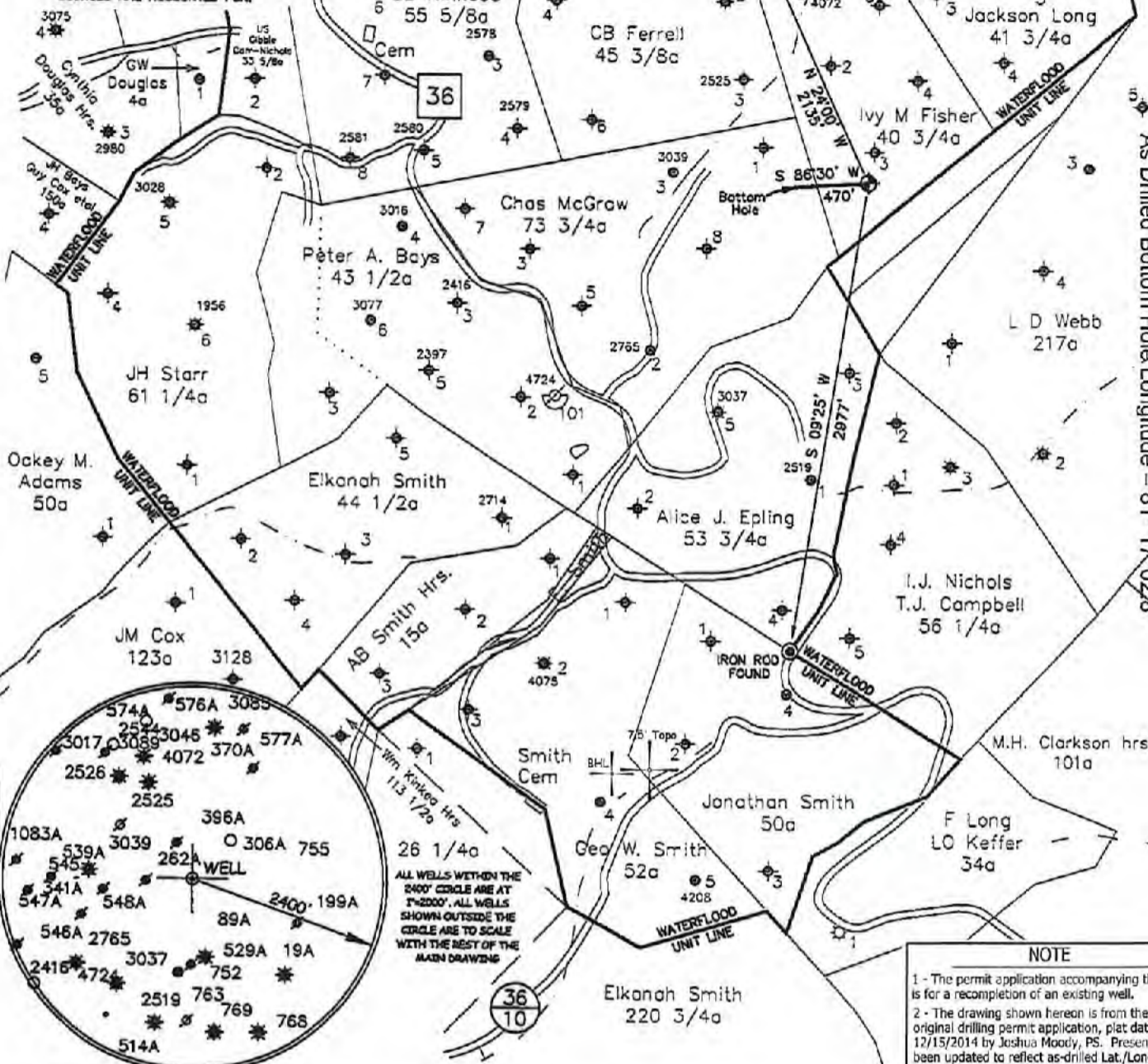
BHL = 81°16' 35.5"

Location References
Existing Well

MAP OF
H.G. ENERGY, LLC
-WATERFLOOD UNIT-
C. McGRAW 207

- 1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade).
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.
4 - Existing well spots from HGE or Seneca Tech, Inc. data

THERE POTENTIALLY APPROXIMATELY 1 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.



ALL WELLS WITHIN THE 2400' CIRCLE ARE AT 1"=2000'. ALL WELLS SHOWN OUTSIDE THE CIRCLE ARE TO SCALE WITH THE REST OF THE MAIN DRAWING

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 12/15/2014 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 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 X WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1,057' WATERSHED Rush Run
DISTRICT Smithfield COUNTY Roane
QUADRANGLE Looneyville 7.5'
SURFACE OWNER Willie King ACREAGE 40.16 Ac.
OIL & GAS ROYALTY OWNER George W. Carr et al. LEASE ACREAGE 75 Ac.
LEASE NO.
PROPOSED WORK: DRILL ___ CONVERT X DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Convert to Liquid Injection
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Big Injun ESTIMATED DEPTH 2,350' 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 April 29, 2022
FARM C.H. McGraw No.207
API WELL NO. 47 - 087 - 04777 S
06/24/2022

FORM IV 6

LONGITUDE 81° 15' 00"

12.929'

BHL = 38° 42' 51.7"

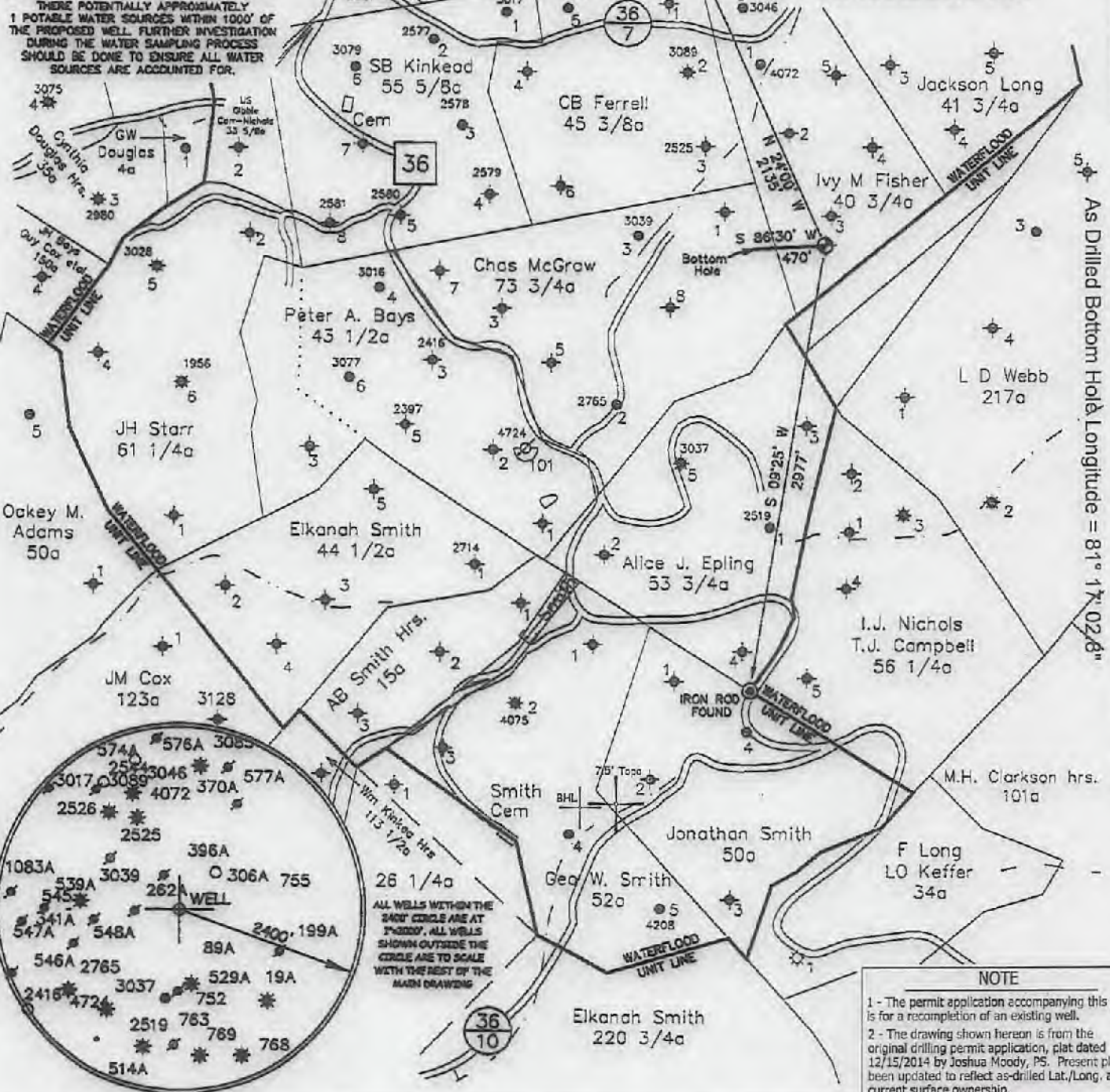
As Drilled Latitude = 38° 42' 51.7"

- 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 1983).
- 2 - Surface owners and oil owners 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.
- 4 - Existing well spots from H&E or Seneca Tech, Inc. data.

UTM COORDINATES
(Zone 17 -NAD 1983)
Surface N - 4,285,140 m.
E - 476,118 m.
Bottom Hole N - 4,285,125 m.
E - 476,972 m.

Location References
Existing Well

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12,929'

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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 April 29, 2022
FARM C.H. McGraw No.207
API WELL NO. 47 - 087 - 04777S

06/24/2022

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



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

47-087-047775

RECEIVED
Office of Oil and Gas

MAY 16 2022

WV Department of
Environmental Protection

May 3, 2022

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

RE: Charles McGraw No. 207 (API 47-087-04777)
Smithfield District, Roane County
West Virginia

Dear Mr. McLaughlin:

Enclosed are the Forms WW-3A, WW-3B, WW-9, mylar of plat, reclamation plan, topo map and copy of the certified mailing receipt for a permit to convert the above-captioned shallow, producing well to an injection well. Our check in the amount of \$550 is attached.

If you have any questions regarding this application, please call me at 304-420-1119 or email at dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Willie King – Certified
Joe Taylor – DEP State Inspector

Check - 651641
Amount - \$550.00
Date - 05/03/2022

06/24/2022



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

Plugging H6A Horizontal Well Work Permit (API: 47-087-04748, 47-087-04750, & 47-087-04777)

1 message

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

Wed, Jun 22, 2022 at 11:25 AM

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




I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-087-04748 - CHARLES MCGRAW 205**47-087-04750 - SB KINKEAD 201****47-087-04777 - C MCGRAW 207**

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 **47-087-04777 - Copy.pdf**
1969K **47-087-04750 - Copy.pdf**
1934K **47-087-04748 - Copy.pdf**
1872K **IR-26 Blank.pdf**
169K**06/24/2022**