west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 13, 2015

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-4303536, issued to HG ENERGY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: HAGER HEIRS 255
Farm Name: MCCLURE, JAMES R.
API Well Number: 47-4303536
Permit Type: Vertical Well
Date Issued: 11/13/2015

Promoting a healthy environment.

4303536

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.

4303536

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

CK 3169
650.00

September 21, 2015

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

RE: Hager Heirs No. 255
Duval District, Lincoln County
West Virginia

Dear Mr. McLaughlin:

Enclosed are the Forms WW-2A, WW-2A (1), WW-2B, WW-9, WW-2(B1), mylar of plat, reclamation plan, topo map and copy of the certified mailing receipt for a permit to drill the above-captioned shallow, producing well. Our check in the amount of $650 is attached.

If you have any questions regarding this application, please call me at 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: James R. McClure - Certified
Earl & Peggy Ryan – Certified
Jerry & Sharon Wade - Certified
Ralph Triplett – DEP Inspector

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WV Department of
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4303536

WW - 2B
(Rev. 8/10)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: HG Energy, LLC

494497948	LIncoln	Duval	Griffithsville 7.5'
Operator ID	County	District	Quadrangle

2) Operator's Well Number: Hager Heirs 255 3) Elevation: 910'

4) Well Type: (a) Oil X or Gas _____

(b) If Gas: Production ____ / Underground Storage _____

Deep _____ / Shallow X

5) Proposed Target Formation(s): Berea Proposed Target Depth: ~~3127'~~ 2891'
6) Proposed Total Depth: 3127' Feet Formation at Proposed Total Depth: ~~Berea~~ Shale
7) Approximate fresh water strata depths: 290'
8) Approximate salt water depths: 1140'

9) Approximate coal seam depths: 340'

10) Approximate void depths,(coal, Karst, other): NA

11) Does land contain coal seams tributary to active mine? NA

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Drill and stimulate production well in the Berea. Stimulation will be small hydraulic fracture.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS Size	Grade	Weight per ft	FOOTAGE INTERVALS For Drilling	Left in Well	CEMENT Fill -up (Cu. Ft.)
Conductor						
Fresh Water	7"	LS	17#	440'	440'	Cement to Surfac
Coal						RDT 10/13/15
Intermediate						
Production	4 1/2"	J-55	10.5#	3077'	3077'	150 sks
Tubing						
Liners						

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Packers: Kind: _____
Sizes: _____
Depths Set _____

4303536

WW-2A
(Rev. 6-14)

1). Date: September 21, 2015

2.) Operator's Well Number Hager Heirs 255

3.) API Well No.: 47- ____ - ____
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name James R. McClure
Address 4705 Midway Road
Yawkey, WV 25573
(b) Name Earl & Peggy Ryan
Address 4797 Midway Road
Yawkey, WV 25573
(c) Name Jerry & Sharon Wade
Address 36 Wade Road
Yawkey, WV 25573
6) Inspector Ralph Triplett
Address 5539 McClellan Highway
Branchland, WV 25521
Telephone 304-389-0350

5) (a) Coal Operator
Name NA
Address
(b) Coal Owner(s) with Declaration
Name NA
Address
Name
Address
(c) Coal Lessee with Declaration
Name NA
Address

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

___ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

___ Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

___ Personal Service (Affidavit attached)
X Certified Mail (Postmarked postal receipt attached)
___ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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
By: Diane White Diane White
Its: Agent
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
S. DIANNE DULANEY
5260 Dupont Road
Parkersburg, West Virginia 26101
My Commission Expires Oct. 4, 2016

Subscribed and sworn before me this 21st day of September, 2015

S Dianne Dulaney Notary Public

My Commission Expires Oct 4, 2016

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Office of Oil and Gas
OCT 26 2015
WV Department of Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

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

OFFICIAL USE

Postage	$ 1.64
Certified Fee	3.45
Return Receipt Fee (Endorsement Required)	2.80
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 7.89

USPS PARKERSBURG, WV SEP 2 2015 Postmark Here

HH 255

7014 3490 0001 9122 1446

Sent To James R. McClure

Street & Apt. No., or PO Box No. 4705 Midway Road

City, State, ZIP+4 Yawkey WV 25573

PS Form 3800, July 2014 — See Reverse for Instructions

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Certified Fee	3.45
Return Receipt Fee (Endorsement Required)	2.80
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 7.89

USPS PARKERSBURG, WV SEP 2 2015 Postmark Here

HH 255

7014 3490 0001 9122 1453

Sent To Earl & Peggy Ryan

Street & Apt. No., or PO Box No. 4797 Midway Road

City, State, ZIP+4 Yawkey WV 25573

PS Form 3800, July 2014 — See Reverse for Instructions

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Certified Fee	3.45
Return Receipt Fee (Endorsement Required)	2.80
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 7.89

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HH 255

7014 3490 0001 9122 1439

Sent To Jerry & Sharon Wade

Street & Apt. No., or PO Box No. 36 Wade Road

City, State, ZIP+4 Yawkey WV 25573

PS Form 3800, July 2014 — See Reverse for Instructions

4303536

WW-2A1
(Rev. 1/11)

Operator's Well Number Hager Heirs 255

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

*** See Attached Sheet ***

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, repeals, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

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OCT 26 2015
WV Department of
Environmental Protection

Diane White

Well Operator: HG Energy, LLC
By: Its: Diane White, Agent

4303536

Form WW-2A(1)
(10/10)

Operator's Well No. Hager Heirs 255

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that --

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Chester Hager, et al	**South Penn Oil Company**	**1/8**	**42/77**

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drillingerations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicantfor the proposed well work addressed in this application hereby ackowledges the possibility of the need for permits and/or approvals from local, state or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management
WV Division of Natural Resources
WV Division of Highways
U.S. Army Corps of Engineers
US Fish and Wildlife Service
County Floodplain Coordinator

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Well Operator: HG Energy, LLC
By: Diane C. White Diane White
Its: Accountant

4303536

WW-2B1
(5-12)

Well No. Hager Heirs 255

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 Sturm Environmental Services
Sampling Contractor Sturm Environmental Services

Well Operator HG Energy, LLC
Address 5260 Dupont Road
Parkersburg, WV 26101
Telephone 304-420-1119

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.

- See Attached Sheet -

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OCT 26 2015
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4303536

WW-2B1
Page 2 - Continued

Well No. Hager Heirs 255

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.

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 underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

Surface Owners Identified With Water Sources to be Sampled and Tested:

* Clifford L. Alford
4874 Midway Road
Yawkey, WV 25573

* James R. McClure
4705 Midway Road
Yawkey, WV 25573

* Edward & Sandra Price
4850 Midway Road
Yawkey, WV 25573

* Jackie & Sandra Stowers
4818 Midway Road
Yawkey, WV 25573

* Jeremy & Sarah McClung
1754 Midway Road
Yawkey, WV 25573

* Matthew & Jessica Pauley
5710 MacCorkle Avenue, SE
Charleston, WV 25304

* Jason & Ashley Bender
Midway Road
Yawkey, WV 25573

* George & Ruby Adkins
Midway Road
Yawkey, WV 25573

* Davis Brothers, LLC
PO Box 11
Sumerco, WV 25567

* Earl & Peggy Ryan
4797 Midway Road
Yawkey, WV 25573

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WW-9
(2/15)

API Number 47 - _____ - _____
Operator's Well No. Hager Heirs 255

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) Porter Fork Quadrangle Griffithsville 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 encountere while drilling subject well

Will a synthetic liner be used in the pit? Yes ☑ No ☐ If so, what ml.? 30 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. Leave in pit

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

-Landfill or offsite name/permit number? _____

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

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OCT 26 2016
WV Department of Environmental Protection

Subscribed and sworn before me this 21st day of September, 20[illegible]

S Dianne Dulaney Notary Public

My commission expires Oct 4 2016

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
S. DIANNE DULANEY
5050 Dupont Road
Parkersburg, West Virginia 26101
My Commission Expires Oct. 4, 2016

4303536

Form WW-9

Operator's Well No. Hager Heirs 255

HG Energy, LLC

Proposed Revegetation Treatment: Acres Disturbed 1.6 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 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: Ralph D. Triplett

Comments:

Title: District Inspector Date: October 13, 2015

Field Reviewed? (✓) Yes ( ) No

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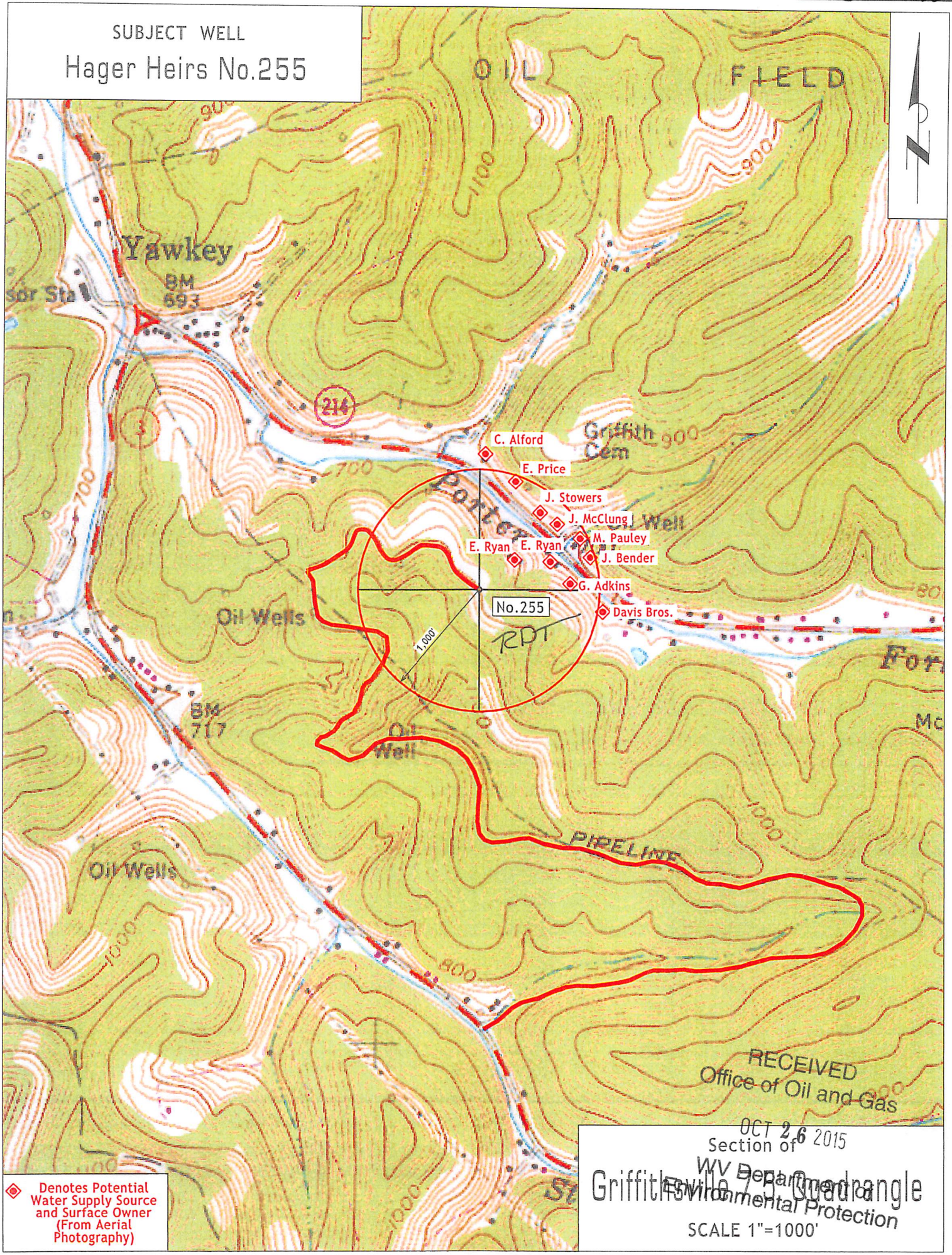
SUBJECT WELL

Hager Heirs No.255



Denotes Potential Water Supply Source and Surface Owner (From Aerial Photography)

Section of Griffithsville 7.5' Quadrangle

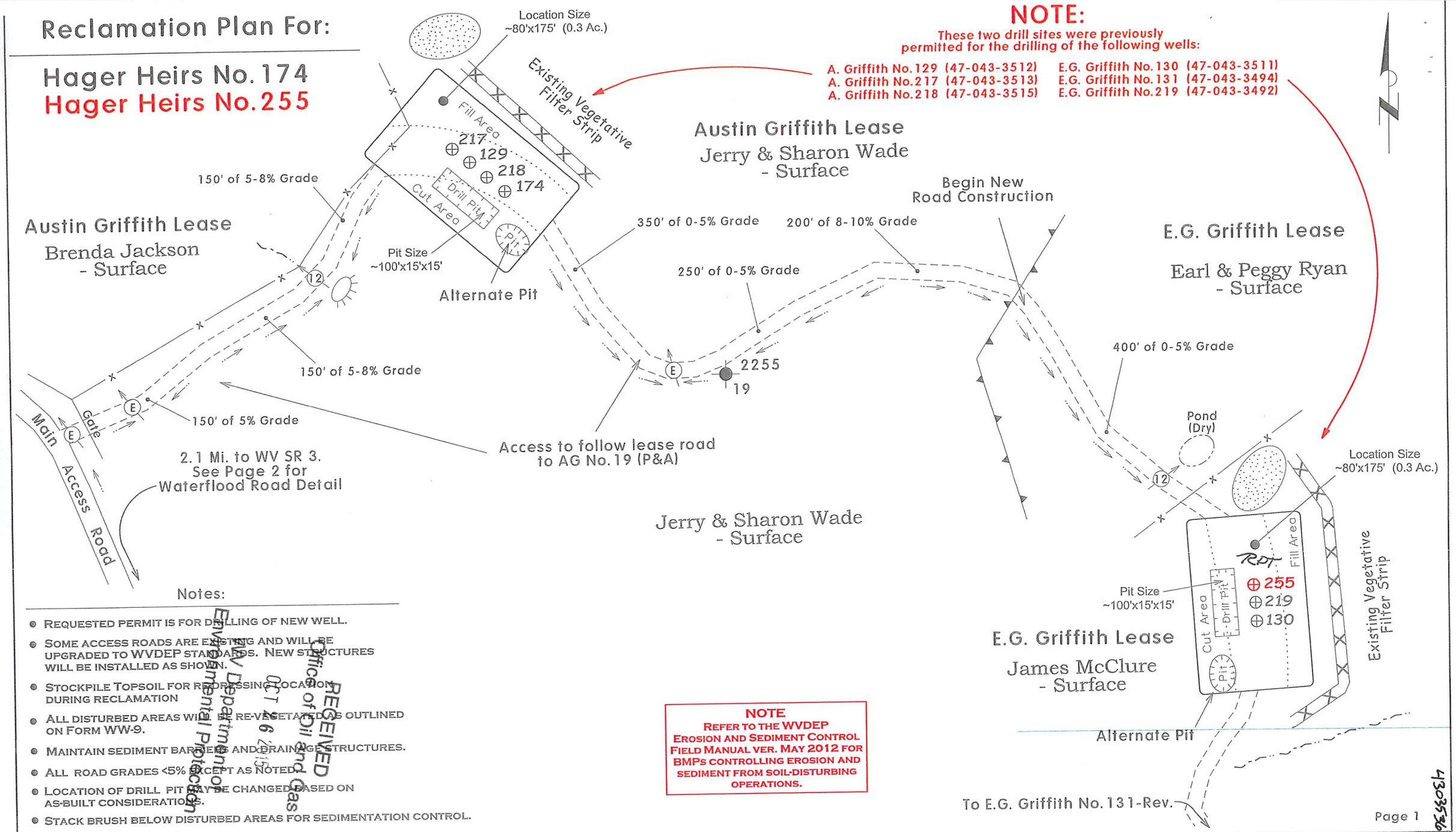
SCALE 1"=1000'

Reclamation Plan For:

Hager Heirs No. 174
Hager Heirs No. 255

NOTE:
These two drill sites were previously permitted for the drilling of the following wells:

A. Griffith No. 129 (47-043-3512)
A. Griffith No. 217 (47-043-3513)
A. Griffith No. 218 (47-043-3515)
E.G. Griffith No. 130 (47-043-3511)
E.G. Griffith No. 131 (47-043-3494)
E.G. Griffith No. 219 (47-043-3492)



Notes:

- Requested permit is for drilling of new well.
- 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 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.
- Stack brush below disturbed areas for sedimentation control.
- Drawing Not to Scale.

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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Longitude = 81°57' 19.66"

11,140'

Bottom Hole Long.= 81°57' 28.0"

LATITUDE 38° 15' 00"

LONGITUDE 81° 55' 00"

11,405'

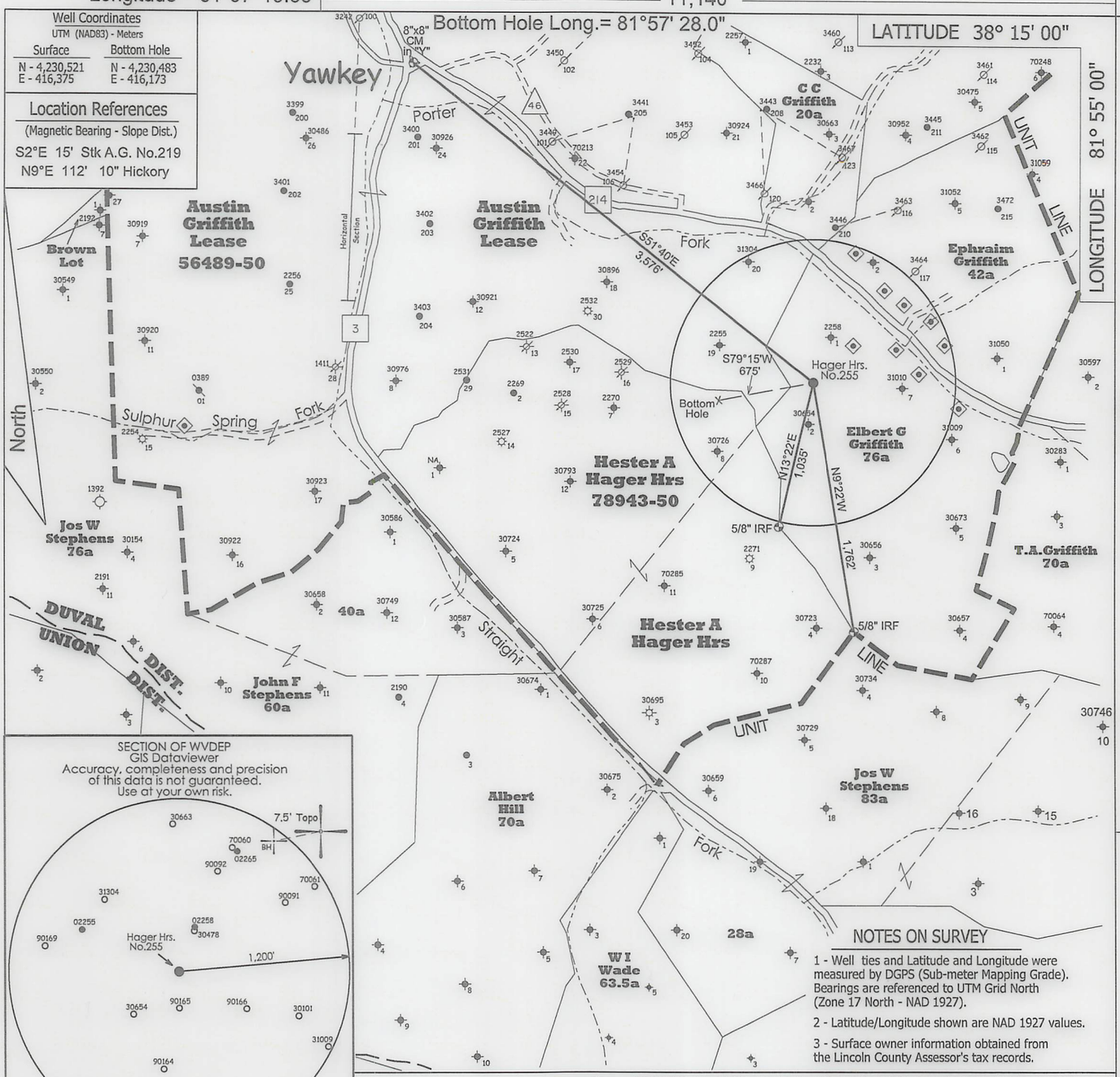
Latitude = 38° 13' 07.27"

Bottom Hole Lat.= 38° 13' 06.0"

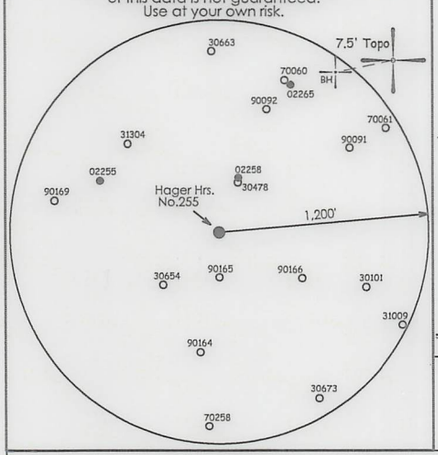
Well Coordinates
UTM (NAD83) - Meters

Surface	Bottom Hole
N - 4,230,521	N - 4,230,483
E - 416,375	E - 416,173

Location References
(Magnetic Bearing - Slope Dist.)
S2°E 15' Stk A.G. No.219
N9°E 112' 10" Hickory



SECTION OF WVDEP GIS Dataviewer
Accuracy, completeness and precision of this data is not guaranteed. Use at your own risk.



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 values.

3 - Surface owner information obtained from the Lincoln 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. 1716

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) _____
TIMOTHY P. ROUSH PS 793

TIMOTHY P. ROUSH LICENSED No. 793 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE September 8, 2015
FARM Hager Heirs No.255
API WELL NO.
47 – 043 – 03536

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

LOCATION: ELEVATION 910' WATERSHED Porter Fork
DISTRICT Duval COUNTY Lincoln
QUADRANGLE Griffithsville 7.5'

SURFACE OWNER James R. McClure ACREAGE 61.46 Ac.
OIL & GAS ROYALTY OWNER HG Energy, LLC., et al LEASE ACREAGE 103 Ac.
LEASE NO. 78943-50

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION Berea ESTIMATED DEPTH 3,127' MD

WELL OPERATOR HG Energy LLC.
ADDRESS 5260 DuPont Road
Parkersburg, WV 26101

DESIGNATED AGENT Diane White
ADDRESS 5260 DuPont Road
Parkersburg, WV 26101

FORM IV-6

P new

Operator: HG ENERGY, LLC API: 4303536

WELL No: HAGER HEIRS 255

Reviewed by: [illegible] Date: 11/03/2015

15 Day End of Comment: 11/10/15

CHECKLIST FOR FILING A PERMIT

Vertical Well

Ck # 3169

- [x] WW-2B
- [x] Inspector signature on WW-2B
- [x] WW-2A (Notarized)
- [x] Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- [ ] Surface Owner Waiver
- [ ] Coal Owner / Lessee /Operator Waiver
- [x] WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage
- [x] WW-2B-1 (Names, addresses, and spot on topographical map listed as water testing)
- [x] WW-9 (Page 1 & 2) (Notarized)
- [No] More than 5,000 bbls
- [x] Inspector Signature on WW-9
- [x] Reclamation plan
- [x] Topographic Map of location of well
- [x] Mylar Plat (Signed and Sealed) (Surface owner on plat matches WW-2A)
- [x] Bond
- [x] Company is Registered with the SOS
- [x] Worker's Compensation / Unemployment Insurance account is OK
- [x] $650.00 check (~~$550.00 if no pit~~)
- [x] Mine Data
- [ ] Addendum
- [ ] Flow Distance to Nearest Intake
- [ ] Horizontal Rule Series 8 Effective August 30, 2011-Well Sites Greater Than 3 Acres
  - [ ] Erosion and Sediment Control Plan
  - [ ] Site Construction Plan
  - [ ] Well Site Safety Plan
- [ ] Water Management Plan (Plan to withdraw 210,000 gallons or more during any one month period)
- [ ] Within a Municipality
  - [ ] Class I Legal Advertisement in Newspaper for first permit on well pad
- [ ] Professional Engineer/Company has COA