



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 06, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-2105783, 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: PINKARD BRANNON 1001 S-1H
Farm Name: ASHLEY, JEFFERY V. & RANDAL

API Well Number: 47-2105783

Permit Type: Horizontal 6A Well

Date Issued: 11/06/2015

Promoting a healthy environment.

11/06/2015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. 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 § 22-6A-5a (12), 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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, 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.



west virginia department of environmental protection

WVDEP Office of Oil and Gas
601 57th Street Southeast; Charleston, WV
(304) 926-0450

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

November 5, 2015

Jeff Ashley
C/O Sarah Ghiz Korwan
Preservati Law, PLLC
PO Box 1431
Charleston, WV 26101

Re: Permit for HG Energy, LLC for Pinkard Brannon 1001 S-1H
API number: 47-021-05783

Mr. Ashley:

The Office of Oil and Gas has reviewed your comments which were received June 13, 2014 concerning HG Energy's permit applications for the above referenced well. The comment was sent to the operator for its response. The operator has responded and the response is enclosed for your records.

After considering your comments, the applicant's response, and the inspector's findings, the OOG has determined that the applications meet the requirements set forth in Article 6A Chapter 22 of the West Virginia Code and Legislative Rule Title 35 Series 8. Consequently, the Office of Oil and Gas will be issuing the permits today. For your information and convenience, I am including with this letter a copy of the permit as issued.

Please contact me at (304) 926-0499, extension 1495 if you have any questions.

Sincerely,

Laura L. Adkins
WV DEP Office of Oil and Gas
Permitting Section



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

Michael G. Kirsch
Landman
(304) 420-1115

June 13, 2014

RECEIVED
Office of Oil and Gas
JUN 16 2014
WV Department of
Environmental Protection

Sarah Guiz Korwan, Esquire
P. O. Box 1431
Charleston, WV 25325

Dear Ms. Korwan:

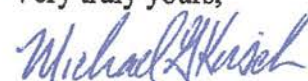
Re: Lease No. 57510-50 – Pinkard Brannon Farm
Pinkard Brannon Well No. 1001 S-1H
Troy District, Gilmer County, West Virginia

We acknowledge receipt of your June 5, 2012 facsimile addressed to Katrina Bell wherein you request the basis for HG Energy's right to drill the captioned well. Prior to responding to your request please accept my apologies for not responding to your request at an earlier date.

The referenced well will be drilled under lease dated March 4, 1908 by and between Pinkard Brannon, as lessor, and J. M. Basom, as lessee, covering 600 acres and filed of record in Book 62, page 137. HG Energy acquired its interest in the Pinkard Brannon farm by two instruments: Assignment, Conveyance and Bill of Sale dated January 1, 2011 by and between East Resources, Inc. and HG Energy, LLC and filed of record in Book 495, page 647 and by Corrective Assignment dated May 10, 2012 by and between East Resources, Inc. and HG Energy, LLC and filed of record in Book 505, page 451.

We trust that the foregoing satisfactorily answers your concerns as to HG Energy's right to drill the captioned well on the Pinkard Brannon farm. Should you have any questions regarding HG Energy's drilling the captioned well please don't hesitate to give me a call. We will send a copy of this letter to Mr. James Martin, Chief of the WVDEP Office of Oil and Gas so that he may be kept apprised of this situation. Thank you for your time and attention to this matter.

Very truly yours,


Michael G. Kirsch

cc: James Martin

Received

JUN 16 2014

Office of Oil and Gas
WV Dept. of Environmental Protection
WV Dept. of Environmental Protection

11/06/2015

PRESERVATI LAW PLLC

June 5, 2014

VIA FACSIMILE (304) 863-3172

Katrina Bell
HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101

RE: Pinkard Brannon Lease Survey

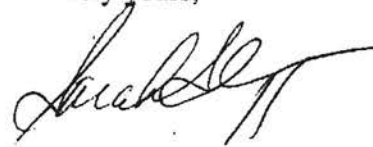
Dear Ms. Bell:

Jeff Ashley has retained the services of my firm to assist him in determining the basis for HG Energy's claim to mineral rights. The last "Assignment of Oil and Gas Leases" of which we are aware is dated and recorded around October 27, 2010.

Please advise me how HG Energy obtains its right to access and drill on Mr. Ashley's property.

I look forward to hearing from you soon.

Sincerely yours,



Sarah Ghiz Korwan

cc: Jeff Ashley

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Office of Oil and Gas

JUN 18 2014

WV Department of Environmental Protection
tabbles

EXHIBIT

A

*** TX REPORT ***

TRANSMISSION OK

TX/RX NO 1437
RECIPIENT ADDRESS 93049260452
DESTINATION ID
ST. TIME 06/12 14:44
TIME USE 00'37
PAGES SENT 2
RESULT OK

PRESERVATI LAW PLLC

June 12, 2014

VIA FACSIMILE (304) 926-0452 & U.S. MAIL

Mr. James Martin, Chief
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charleston, West Virginia 25304-2345

**RE: HG Energy, LLC Well No. Pinkard Brannon 1001 S-1H
Gilmer County, WV – Troy District**

Dear Mr. Martin:

Please be advised that Preservati Law Offices, PLLC, represents Mr. Jeff Ashley. Mr. Ashley is a surface owner affected by the above-referenced permit application filed by HG Energy, LLC on May 15, 2014. Mr. Ashley objects and provides comments to the permit application based on the following grounds:

1. A letter dated June 5, 2014, was faxed to HG Energy, LLC, requesting documentation of its rights to access and drill on Mr. Ashley's property (see attached Exhibit A); and
2. To this date, no response has been received from HG Energy, LLC, in regard to this request.

Inasmuch as HG Energy, LLC, has failed to establish mineral and drilling rights to minerals on his property, it appears HG Energy, LLC, does not have the rights to drill on Mr. Ashley's property.

11/06/2015

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JUN 13 2014
West Virginia Department of Environmental Protection

PL PRESERVATI LAW PLLC

June 12, 2014

VIA FACSIMILE (304) 926-0452 & U.S. MAIL

Mr. James Martin, Chief
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charleston, West Virginia 25304-2345

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I appreciate your attention to this matter. Should you have any questions, please do not hesitate to contact me.

Sincerely,



Sarah Ghiz Korwan

cc: HG Energy, LLC
Jeff Ashley

Received

JUN 12 2014

Office of Oil and Gas
Dept. of Environmental Protection

June 12, 2014

VIA FACSIMILE (304) 926-0452 & U.S. MAIL

Mr. James Martin, Chief
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charleston, West Virginia 25304-2345

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I appreciate your attention to this matter. Should you have any questions, please do not hesitate to contact me.

Sincerely,



Sarah Ghiz Korwan

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Office of Oil and Gas

JUN 13 2014

cc: HG Energy, LLC
Jeff Ashley

WV Department of
Environmental Protection

WW-6B
(04/15)

API NO. 47- _____ - _____
OPERATOR WELL NO. Pinkard Brannon 1001 S-1H
Well Pad Name: Pinkard Brannon 1001

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

1) Well Operator: HG Energy, LLC 494497948 Gilmer Troy Auburn 7.5'
Operator ID County District Quadrangle

04 224

2) Operator's Well Number: Pinkard Brannon 1001 S-1H Well Pad Name: Pinkard Brannon 1001

3) Farm Name/Surface Owner: Pinkard Brannon Public Road Access: SR 18

4) Elevation, current ground: 1173' Elevation, proposed post-construction: 1163.5'

5) Well Type (a) Gas Oil Underground Storage _____
Other _____

(b) If Gas Shallow _____ Deep _____
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale, 6500' TVD, 6981' TMD, Approximate 50'-80' thick, approximate pressure gradient 1.1 psi/ft

8) Proposed Total Vertical Depth: 6600' TVD (Pilot Hole)

9) Formation at Total Vertical Depth: Onondaga (Pilot Hole)

10) Proposed Total Measured Depth: 9814' TMD

11) Proposed Horizontal Leg Length: 2833' MD

12) Approximate Fresh Water Strata Depths: 350'

13) Method to Determine Fresh Water Depths: Based on drilling history in nearby wells

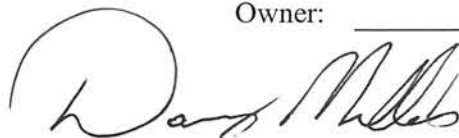
14) Approximate Saltwater Depths: 1025'

15) Approximate Coal Seam Depths: 420', 700'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: N/A
Depth: _____
Seam: _____
Owner: _____



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JUN 17 2015
WV Department of
Environmental Protection
Page 1 of 3
11/06/2015

WW-6B
(04/15)

02105783

API NO. 47- _____
 OPERATOR WELL NO. Pinkard Brannon 1001 S-1H
 Well Pad Name: Pinkard Brannon 1001

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	H-40	94	60	60	NA
Fresh Water	13 3/8	New	J-55	54.5	4100 800	4100 800	1240, CTS
Coal					DM	DM	
Intermediate	9 5/8	New	J-55	40	3000	3000	1450, CTS
Production	5 1/2	New	P-110	20	9795	9795	3300, CTS
Tubing	2 3/8	New	L-80 or N-80	4.7	NA	7000	NA
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	20	0.438	1530	<1200	NA	NA
Fresh Water	13 3/8	17 1/2	0.38	2740	<2190	Class A - Gas Block	1.21
Coal							
Intermediate	9 5/8	12 1/4	0.395	3950	<3160	Gas Block	Tail - 1.30, Lead - 1.33
Production	5 1/2	8 1/2	0.361	12640	<10000	ASC - Tail, Gas Block	Tail - 1.49, Lead - 1.23
Tubing	2 3/8	4.778	0.19	11200	<8960	NA	NA
Liners							

PACKERS

Kind:	NA			RECEIVED Office of Oil and Gas JUN 17 2015
Sizes:	NA			
Depths Set:	NA			

WV Department of
Environmental Protection

WW-6B
(10/14)

02105783
API NO. 47- -
OPERATOR WELL NO. Pinkard Brannon 1001 S-1H
Well Pad Name: Pinkard Brannon 1001

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, case, cement as proposed on page 2, then complete a horizontal Marcellus Shale well. We plan to drill a pilot hole to the Onondaga, run open hole logs, then plug back w/cement to the kick off point of the well.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Plan to hydraulically fracture/stimulate the well using "slickwater" frac technique. Will utilize a plug & perforation technique through cased hole. Max rate approximately 85 - 90 BPM and max pressure is approximately 10,000 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.28 acres

22) Area to be disturbed for well pad only, less access road (acres): 2.2 acres

23) Describe centralizer placement for each casing string:

Conductor: NA Surface: Centralizer every 3 joints or 120'
Intermediate: Centralizer every 3 joints or 120'
Production Centralizer Program:
Run 1 spiral centralizer every 120' from the 1st 5.5" long joint to the top of the curve
Run 1 spiral centralizer every 200' from the top of the curve to surface

24) Describe all cement additives associated with each cement type:

Conductor: NA - Drilled in/Sanded in (Casing while drilling, no annulus) (See Attach "Cement Additives" for complete description
Surface: Cement Slurry Description - Gas Block, Class A - 2% CaCl₂ + 0.25 lb/sk Unicele
Intermediate: Lead: Type 1 + 3% Gel + 0.5% CR-3 + 0.25 lb/sk Unicele
Production: Lead: Type 1 + 3% Gel + 0.5% R-3 + 0.5% CFL - 117+0.25% Foam Chek + 1/8 lb/sk Unicele

25) Proposed borehole conditioning procedures:

The wellbore will be properly circulated at TD of each section until as much of the residual drill cuttings have been removed from the wellbore as possible, residual drilling gas has been circulated out and until the mud and wellbore are both constant and stable. Mud properties will be adjusted if needed. Hole cleaning times may vary from well to well, hole section to hole section.

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*Note: Attach additional sheets as needed.

WV Department of
Environmental Protection
Page 3 of 3
11/06/2015

Cement Additives for WW-6B

02105783
DM

Conductor: N/A – Drilled in / Sanded in (Casing While Drilling, no annulus)

Surface Casing:

Premium NE – 1 (Class A Cement) + 3% bwoc calcium
Chloride + 0.75 gals/100 sack FP-12L (ANTI-FOAM) + 0.25
Lbs/sack Cello Flake (Lost Circulation Material)

Intermediate Casing:

Lead:

Type 1 Cement + 0.75 gals/100 sack FP (ANTI-FOAM)

12L + 0.25 lbs/sack Cello Flake (Lost Circulation)

Tail: Gas-Blok Blend

**Premium NE-1 (Class A Cement) + 0.55% bwoc BA-10A (Bonding Agent) + 1% bwoc
EC-1 (Bonding Agent) + 0.5% bwoc Sodium Metasilicate (Viscosifier) + 0.25 lbs/sack
Cello Flake (Lost Circulation) + 0.75 gals/100 sack FP-12L (Anti-Foam)**

Production:

Lead #1

**(50:50) Poz (Fly Ash): Premium NE – 1 (Class A Cement) + 0.25% bwoc R-3 (Retarder) + 1% bwoc EC-1 (Bonding Agent)
+ 0.75 gals/100 0.25% bwoc R-3 (Retarder) + 1% bwoc EC-1 (Bonding Agent) + 0.75 gals/100 sack FP-12L (Anti-Foam) +
0.125 lbs/sack Cello Flake (Lost Circulation) + 0.5% bwoc MPA-170 (Multi Purpose Additive), ie Fluid Loss, Free Water
and Stabilization**

Lead #2

**Sacks of (50:50) Poz (Fly Ash): Premium NE-1 (Class A Cement) + 0.125 lbs/sack Cello Flake (Lost Circulation) + 0.3%
bwoc CD-32 (Dispersant) + 0.4% bwoc BA-59 (Bonding Agent) + 0.5% bwoc MPA-170 (Multi Purpose Additive), isack
7.5 lbs/sack BA-90 (Bonding Agent) +0.3% bwoc R-3 (Retarder) + 0.75 gals/100 sack FP-12L (Anti-Foam)**

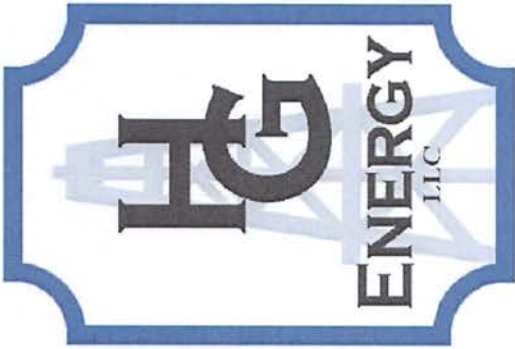
Lead #3

**Premium NE-1 (Class A Cement) + 0.5% bwoc R-3 (Retarder) + 0.75 gals/100 sack FP-12L (Anti-foam) + 0.125 lbs/sack
Cello Flake (Lost Circulation) + 0.25% bwoc CD-32 (Dispersant) + 0.6% bwoc Sodium Metasilicate (Viscosifier) + 1.2%
bwoc BA-10A (Bonding Agent) + 10 lbs/sack ASCA-1 (Solubility Aid).**

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WV Department of
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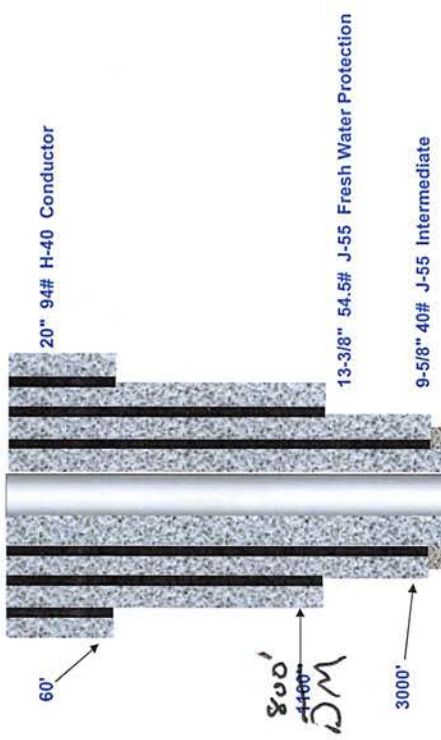
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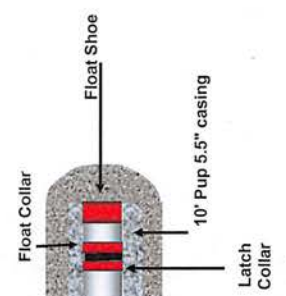
WELL: Pinkhard Brannon 1001 S -1H

Horizontal Marcellus Casing Schematic

DRAWING NOT TO SCALE



Production Casing: Approx. 9,814' of 5-1/2" 20# P-110 Production



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JUN 17 2015

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Environmental Protection

11/06/2015

02105783

WW-9
(2/15)

API Number 47 - _____ - _____
Operator's Well No. Pinkard Brannon 1001 S-1H

**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) Cove Creek & Rush Run Quadrangle Auburn 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: NA

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Diane White
6-16-15

Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop drilling system, re-used or hauled to an approved disposal site or landfill

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, barite

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. 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? All cuttings to be shipped to the Wetzel County Landfill (Permit #1110222-WV52)

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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Office of Oil and Gas

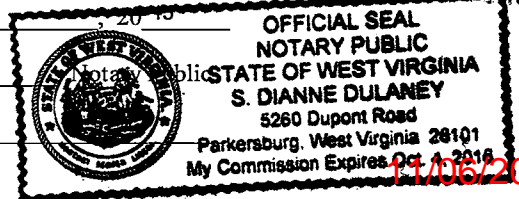
JUN 17 2015

WV Department of
Environmental Protection

Subscribed and sworn before me this 9th day of June

S. Dianne Dulaney

My commission expires Oct 4, 2016



11/06/2015

02105783

Form WW-9

Operator's Well No. Pinkard Brannon 1001 S-1H

HG Energy, LLC

Proposed Revegetation Treatment: Acres Disturbed 14.28 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 2 Tons/acre

Seed Mixtures

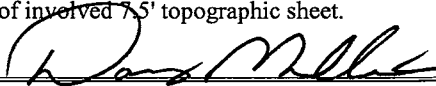
Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

****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: _____

Comments: Pre seed + Mulch Install & maintain ENS to WV Dep standards

Title: OOG Inspector

Date: 6-16-15

Field Reviewed? Yes No

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Office of Oil and Gas

JUN 17 2015

WV Department of
Environmental Protection

Office
J
WV D
Environm

11/06/2015

Pinkard Brannon 1001 Site Safety Plan



The Following includes a Well Drilling Procedures and Site Safety Plan submitted by:

Name: Matthew J. McGuire Date: _____

Title: HSE Manager _____, HG Energy, LLC.

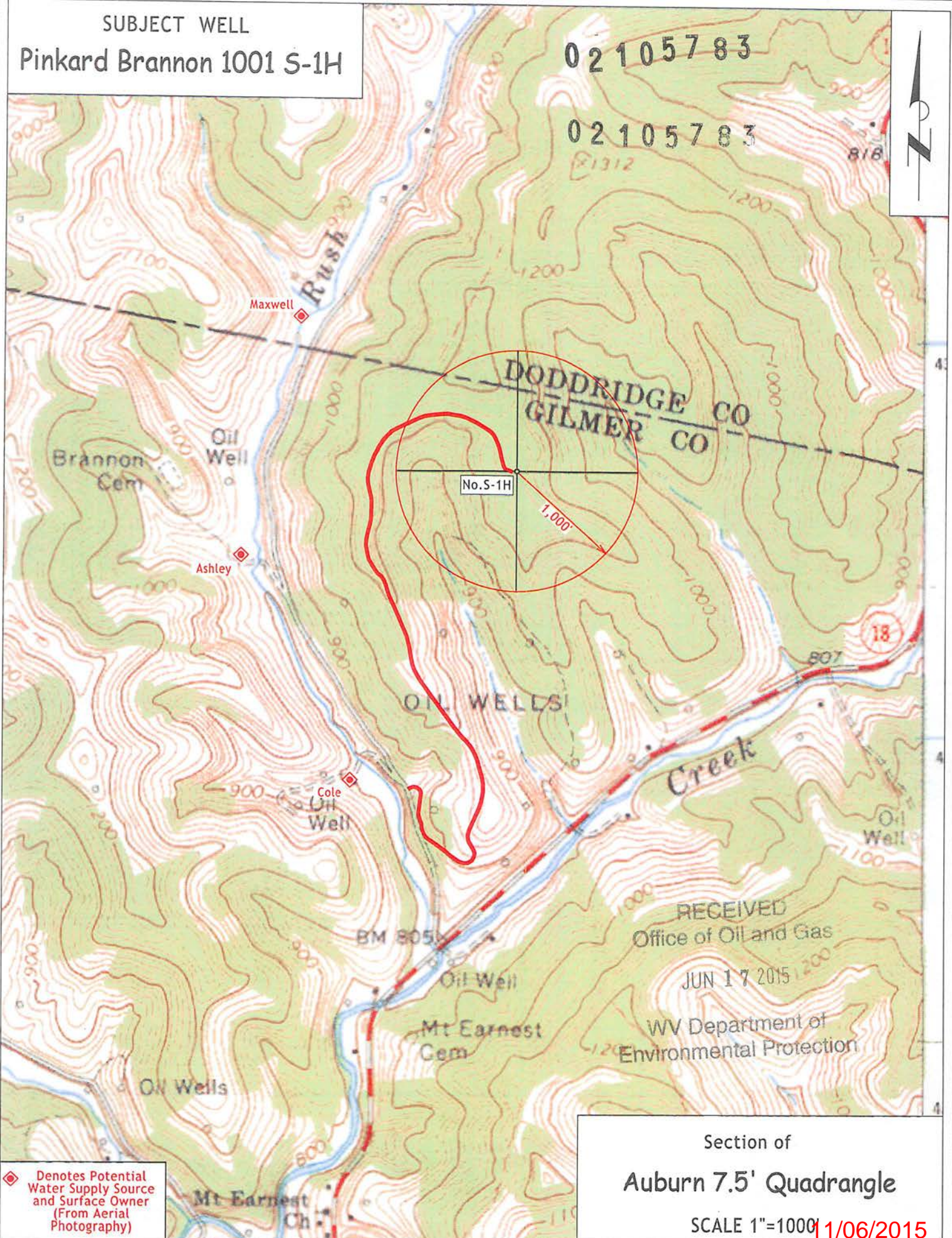
WV DEP Approval by: *Danny Mullins* Date: 5-16-15

Title: OOB Inspector _____, West Virginia DEP

SUBJECT WELL
Pinkard Brannon 1001 S-1H

02105783

02105783



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

Section of
Auburn 7.5' Quadrangle
SCALE 1"=1000' 1/06/2015

(BOTTOM HOLE: 80°45'19.0") LON: -80°45'42.6"

3360'

LAT: 39°07'30"

MAP OF H.G. ENERGY, LLC -P. BRANNON 1001 UNIT-

LON: 80°45'00"

9125'

LAT: 39°05'59.8" (BOTTOM HOLE: 39°05'38.5")

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).

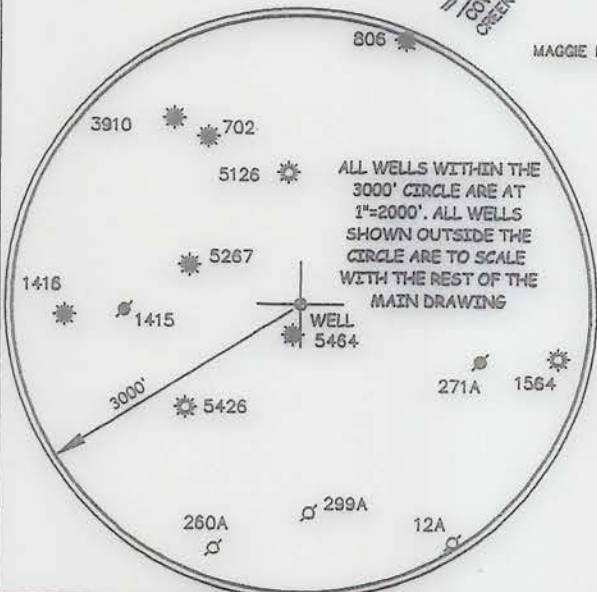
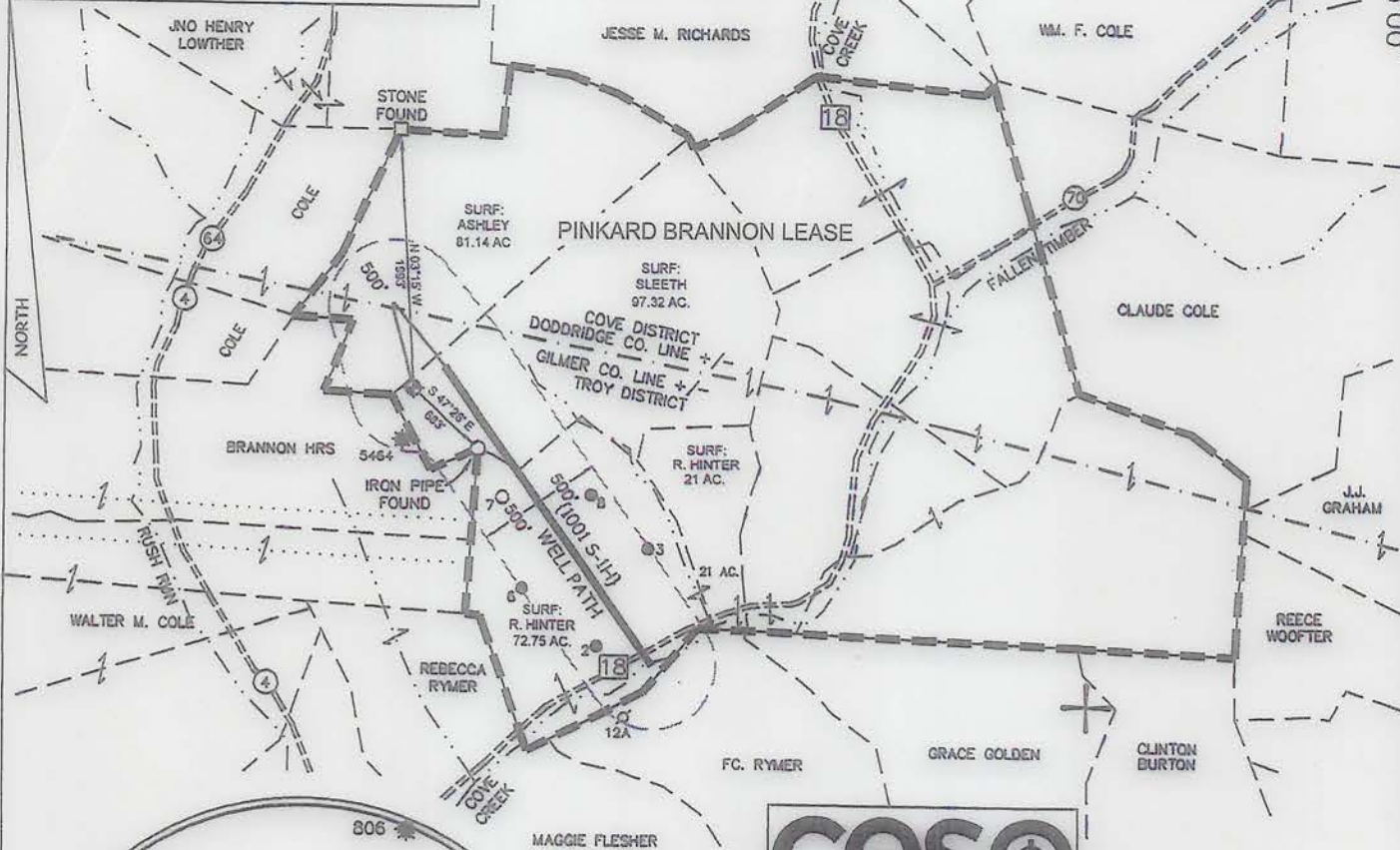
2 - Surface owners and adjoining information obtained from the Gilmer County & Doddridge County Assessor's tax records & H&E mapping.

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

SURVEY NOTES

UTM Coordinates (Zone 17N-NAD 1983)	
Surface	N-4,327,905m. E-520,608m.
Bottom Hole	N-4,327,250m. E-521,177m.

LOCATION REFERENCES	
UTM 27	
N 70° 38' W 172' IRON ROD S 12° 29' W 392' STAKE	



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Engineering • Architecture • Survey • Construction Mgt • Environmental
211 Washington Street, St. Marys, WV 26170 (304-904-7773)

WELL LOCATIONS INSIDE THE 500' BUFFER WERE EITHER LOCATED BY SUB-METER GPS OR BY MAPPING PROVIDED BY HGE.

TRACT NAMES IN THE MAPPED PORTION OF THIS DRAWING WERE TAKEN FROM MAPPING PROVIDED BY HGE.

SURFACE OWNER NOTE: ANN B. ASHLEY & JAMES VERNON ASHLEY AS GRANTORS & JEFFREY VERNON ASHLEY & RANDALL NELSON ASHLEY AS GRANTEEES. REFERENCE TO LIFE ESTATE RESERVED BY THE GRANTORS. REFERENCE DEED BOOK 256/170 IN DODDRIDGE COUNTY.

THERE POTENTIALLY APPROXIMATELY 0 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.

JOB # 14-007
DRAWING # 14BRANNON FLD.
SCALE 1" = 1500'
MINIMUM DEGREE OF ACCURACY SUB-METER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.



JOSHUA E. MOODY, P.S. 2020
DATE 5/08/14 (rev. 5/21/15)
OPERATOR'S WELL #1001 S-1H
REVISED

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEV. PLAN: 1163.5' EX: 1173' WATERSHED COVE CREEK & RUSH RUN API WELL #
DISTRICT TROY COUNTY GILMER 47 - 021 - 05783
QUADRANGI E AUBURN 7.5' STATE COUNTY PERMIT

SURFACE OWNER JEFFERY V. ASHLEY & RANDALL N. ASHLEY (SEE NOTE) ACREAGE 81.14 ACRES +/-
OIL & GAS ROYALTY OWNER GARY RUPPERT ET AL LEASE ACREAGE 600 ACRES +/-
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) DRILL VERTICAL WELL, LOG THEN PLUG BACK TO KOP
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD=6,600' MD=9,814'
WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT DIANE WHITE
ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

11/06/2015

02105783

WW-6A1
(5/13)

Operator's Well No. Pinkard Brannon 1001 S-1H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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:

Lease Name or Number	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

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Office of Oil and Gas
JUN 17 2015

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, 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.

Well Operator: HG Energy, LLC WV Department of
 By: Diane White Environmental Protection
 Its: Agent

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

Operator's Well No. Pinkard Brannon 1001 S-1H

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:

<u>Grantor, Lessor, etc.</u>	<u>Grantee, Lessee, etc.</u>	<u>Royalty</u>	<u>Book/Page</u>
Pinkard Brannon	South Penn Oil Company	1/8	62/137

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 drilling operations 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 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
US Fish and Wildlife Service
County Floodplain Coordinator

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JUN 17 2015

WV Department of
Environmental Protection
11/06/2015

Well Operator: HG Energy, LLC

By: Diane C. White Diane White
Its: Accountant



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

02105783

June 8, 2015

Laura Cooper
WV DEP
Division of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Pinkard Brannon No. 1001 S- 1H
Troy District, Gilmer County
West Virginia

Dear Ms. Cooper:

The proposed laterals for the above referenced well will cross under SLS 18, a public road in Troy District, Gilmer County, WV.

HG Energy, LLC, has the right to drill, extract, and produce the minerals from under said public road SLS 18 by virtue of the lease identified on page WW-2(A) of the accompanying permit application.

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

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WV Department of
Environmental Protection

11/06/2015

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

02105783

Date of Notice Certification: 06/11/2015

API No. 47- _____
Operator's Well No. Pinkard Brannon 1001 S-1H
Well Pad Name: Pinkard Brannon 1001

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>520608.0</u>
County: <u>Gilmer</u>		Northing: <u>4327905.4</u>
District: <u>Troy</u>	Public Road Access: <u>SR 18</u>	
Quadrangle: <u>Auburn 7.5'</u>	Generally used farm name: <u>Pinkard Brannon</u>	
Watershed: <u>Cove Creek & Rush Run</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOO OFFICE USE ONLY</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
--	--

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

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WV Department of
11/06/2015

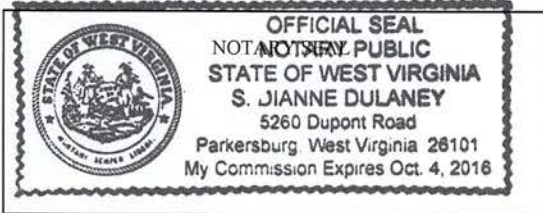
02105783

Certification of Notice is hereby given:

THEREFORE, I Diane White, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification 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
Telephone: 304-420-1119

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3127
Email: dwhite@hgenergyllc.com



Subscribed and sworn before me this 11 day of June, 2015.

S. Jianne Dulaney Notary Public

My Commission Expires Oct. 4, 2016

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WV Department of
Environmental Protection
11/06/2015



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

02105783

June 9, 2015

Sturm Environmental Services
P.O. Box 650
Bridgeport, WV 26330

Attention: Water Testing for Pinkard Brannon 1001 S-1H – Pre-Drill Sampling/Analysis

Dear Ms. Hoops:

HG Energy LLC authorizes Sturm to test the water in the area of the Pinkard Brannon 1001 S-1H well. Water sources which we've identified are listed on the attached sheet, the owner may identify additional water sources to be tested. We'd like Sturm Environmental Services to test the water supply sources for the parameters outlined in 38CSR18 19.3.2:

1. PH
2. Iron
3. Total Dissolved Solids
4. Chlorides
5. Detergents (MBAS)

In some cases we are uncertain as to how many water supply sources a landowner is using. Please inquire as to the number that are in use and sample all of them. Also include the reason why the sample was not taken, if any. Please include the GPS coordinates for the location of each of the water sources and the Well Name on all documents.

Attached is a sheet with the owner of the water supply sources to be tested. Also included are several maps which may assist you with locating the property. Please contact them to schedule your testing dates to allow the landowners to be present if desired. Also please communicate your testing plans to the appropriate field supervisor as listed on the attached form.

Upon completion of analysis, please send the results to this office, to my attention.

If you have any questions regarding this project feel free to call me at (304) 420-1119, or via email at dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

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Office of Oil and Gas

JUN 17 2015

WV Department of Environmental Protection
11/06/2015

02105783

Water Supply Source Testing Request for:

Pinkard Brannon 1001 S-1H

Date: 6/9/2015

Contact Information

Landman: Mark Schall

Phone: 304-420-1121

Cell: 304-483-3144

Well Reference: Pinkard Brannon 1001 S-1H

No.	Name	Phone	Comment
1	Randy Ashley 531 Wandering Lane Beaver, WV 25813	304-763-2498	NAD 83 coordinates - 390553.09 N 804611.63W
2	Dan & Donna Maxwell 5431 State Route 303 Wakeman, OH 44889	440-839-2060	NAD 83 coordinates - 390612.38 N 804604.74W
3	Charles D. Cole II P. O. Box 1100 Jane Lew, WV 26378		
4			
5			
6			
7			

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JUN 17 2015

WV Department of
Environmental Protection

Well Reference:

	Gilmer County		
	Troy District		
	Tax Map - Gilmer/Troy/Map 12/Parcel 9		
****	Please test any water source requested by surface owner and/or that you find which isn't on this list.		
	Any questions, please call Diane White at HG Energy, LLC, 304-420-1119		
	Testing and analysis should be conducted in compliance with EPA water standards set forth on the WV DEP website in the pre-drilling requirements		

02105703

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 6/08/2015 Date Permit Application Filed: 6/15/2015

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

- SURFACE OWNER(s)
 - Name: Randy Sleeth
 - Address: Rt. 78, Box 36-A
Troy, WV 26443
 - Name: Rodney Sleeth
 - Address: Rt. 78, Box 32
Troy, WV 26443
- SURFACE OWNER(s) (Road and/or Other Disturbance)
 - Name: Jeff Ashley
 - Address: 210 Maplewood Estates
Scott Depot, WV 25560
 - Name: Randy Ashley
 - Address: 531 Wandering Lane
Beaver, WV 25813
- SURFACE OWNER(s) (Impoundments or Pits)
 - Name: _____
 - Address: _____

- COAL OWNER OR LESSEE
 - Name: _____
 - Address: _____
- COAL OPERATOR
 - Name: _____
 - Address: _____
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
 - Name: _____
 - Address: _____
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 - Name: _____
 - Address: _____

*Please attach additional forms if necessary

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Office of Oil and Gas

JUN 17 2015

WV Department of Environmental Protection
11/06/2015

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A
(8-13)

02105783
API NO. 47-
OPERATOR WELL NO. Pinkard Brannon 1001 S-1H
Well Pad Name: Pinkard Brannon 1001

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

WV Department of
Environmental Protection
11/06/2015

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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Environmental Protection
11/06/2015

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WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. Pinkard Brannon 1001 S-1H
Well Pad Name: Pinkard Brannon 1001

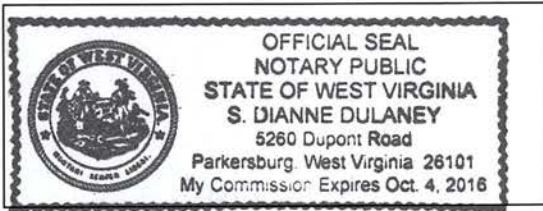
Notice is hereby given by:

Well Operator: HG Energy, LLC
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3127

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



Subscribed and sworn before me this 8th day of June, 2015.

S. Dianne Dulaney

Notary Public

My Commission Expires Oct. 4, 2016

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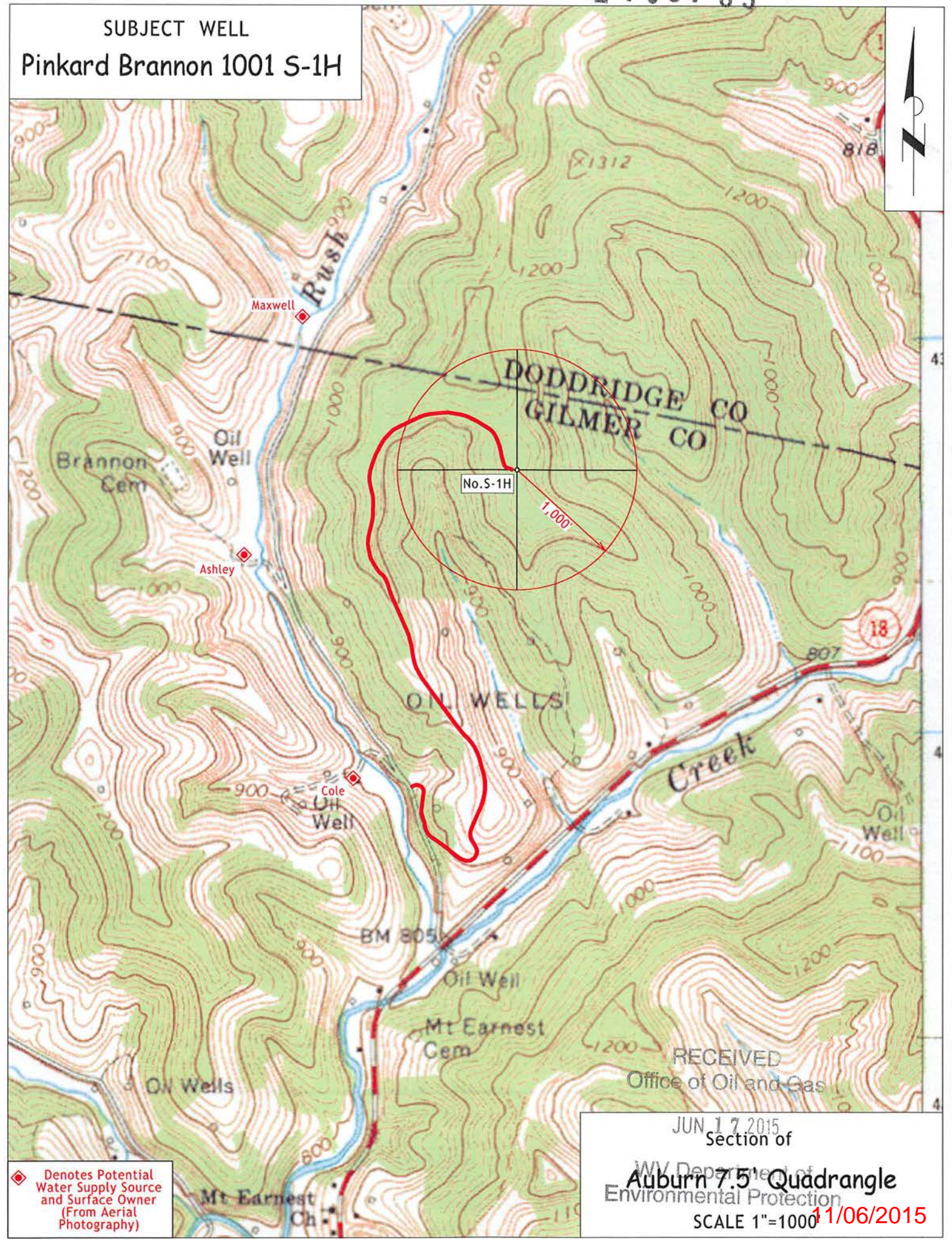
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SUBJECT WELL
Pinkard Brannon 1001 S-1H



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

JUN 17 2015
Section of
WV Department of Environmental Protection
Auburn 7.5 Quadrangle
SCALE 1"=1000 11/06/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: May 22, 2015 **Date of Planned Entry:** June 5, 2015

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: * See Attached Sheet for Additional Owners

SURFACE OWNER(s)

Name: Randy Sleeth ✓
 Address: Rt. 78, Box 36-A
Troy, WV 26443

Name: Rodney Sleeth ✓
 Address: Rt. 78, Box 32
Troy, WV 26443

Name: Jeff Ashley
 Address: 210 Maplewood Estates ✓
Scott Depot, WV 25560

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Waco Oil & Gas Co., Inc. ✓
 Address: P. O. Box 397
Glennville, WV 26351

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.100041 & 80.761674 (NAD 83 DD)</u>
County: <u>Gilmer</u>	Public Road Access: <u>SR 4</u>
District: <u>Troy</u>	Watershed: <u>Cove Creek & Rush Run</u>
Quadrangle: <u>Auburn 7.5'</u>	Generally used farm name: <u>Pinkard Brannon</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

RECEIVED
Office of Oil and Gas

Notice is hereby given by:

Well Operator: HG Energy, LLC
 Telephone: 304-420-1119
 Email: dwhite@hgeneryllc.com

Address: 5260 Dupont Road
Parkersburg, WV 26101
 Facsimile: 304-863-3127

JUN 17 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 telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice is hereby additionally provided to:

Mineral Owner (s)

Evelyn Curran ✓
912 NE 7th Street
Pompano Beach, FL 33060

Charles Dwane Bush ✓
167 Clayton Avenue
Hurricane, WV 25526

Yvonne Jones Bittle ✓
619 Garrison Avenue
Charleston, WV 25302

Homer C. Brannon ✓
178 Liberty Street
Salem, WV 26426

Louis Williams Morgan ✓
18018 Marble Spring
San Antonio, TX 78258

Doris Ann Hammond ✓
P. O. Box 1691
Alameda, CA 94501

Richard B. Brannon ✓
P. O. Box 2893
Prescott, AZ 86302

Sandra Randolph ✓
2700 Q Street NW, 345
Washington, DC 20007

Edward A. Randolph ✓
2084 Ellwyn Drive
Atlanta, GA 30341

Surface Owner

Randy Ashley ✓
531 Wandering Lane
Beaver, WV 25813

Rodney Sleeth ✓
Rt. 78, Box 32
Troy, WV 26443

Randy Sleeth ✓
Rt. 78, Box 36-A
Troy, WV 26443

Donald Sleeth ✓
P. O. Box 102
Belpre, OH 45714

Linda Suttle ✓
79 Evergreen Ridge Road
Clarksburg, WV 26301

Geneva Matheny ✓
3597 Tyler Highway
Sistersville, WV 26175

Bonnie Lee Brown ✓
P. O. Box 337
Armagh, PA 15920

John Balboa & Debra Trygstad ✓
P. O. Box 578
Shasta, CA 96087

James & Ann Ashley ✓
843 Poca River Road
Sissonville, WV 25320

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Environmental **11/06/2015**

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 06/05/2015 **Date Permit Application Filed:** 06/15/2015

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s): * See Attached Sheet for Additional Owners

Name: Jeff Ashley
Address: 210 Maplewood Estates
Scott Depot, WV 25560

Name: Randy Ashley
Address: 531 Wandering Lane
Beaver, WV 25813

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>520608.0</u>
County: <u>Glimer</u>	Northing: <u>4327905.4</u>
District: <u>Troy</u>	Public Road Access: <u>SR18</u>
Quadrangle: <u>Auburn 7.5'</u>	Generally used farm name: <u>Pinkard Brannon</u>
Watershed: <u>Cove Creek & Rush Run</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: HG Energy, LLC
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
Facsimile: 304-863-3127

Authorized Representative: Diane White
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
Facsimile: 304-863-3127

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Page 2

Operator Well No. Pinkhard Brannon 1001 S-1H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Notice is hereby additionally provided to:

Surface Owner (s)

Rodney Sleeth
Rt. 78, Box 32
Troy, WV 26443

Randy Sleeth
Rt. 78, Box 36-A
Troy, WV 26443

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11/06/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 06/09/2015 **Date Permit Application Filed:** 06/15/2015

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s) ** See Attached Sheet for Additional Owners
(at the address listed in the records of the sheriff at the time of notice):

Name: Jeff Ashley
Address: 210 Maplewood Estates
Scott Depot, WV 25560

Name: Randy Ashley
Address: 531 Wandering Lane
Beaver, WV 25813

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia	UTM NAD 83 Easting: 520608.0
County: Gilmer	Northing: 4327905.4
District: Troy	Public Road Access: SR18
Quadrangle: Auburn 7.5'	Generally used farm name: Pinkard Brannon
Watershed: Cove Creek & Rush Run	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: HG Energy, LLC
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3127

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(1/12)
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Operator Well No. Pinkhard Brannon 1001 S-1H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice is hereby additionally provided to:

Surface Owner (s)

Rodney Sleeth
Rt. 78, Box 32
Troy, WV 26443

Randy Sleeth
Rt. 78, Box 36-A
Troy, WV 26443

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Reclamation Plan For:

Pinkard Brannon 1001
Well No. S-1H

0213303 02105783

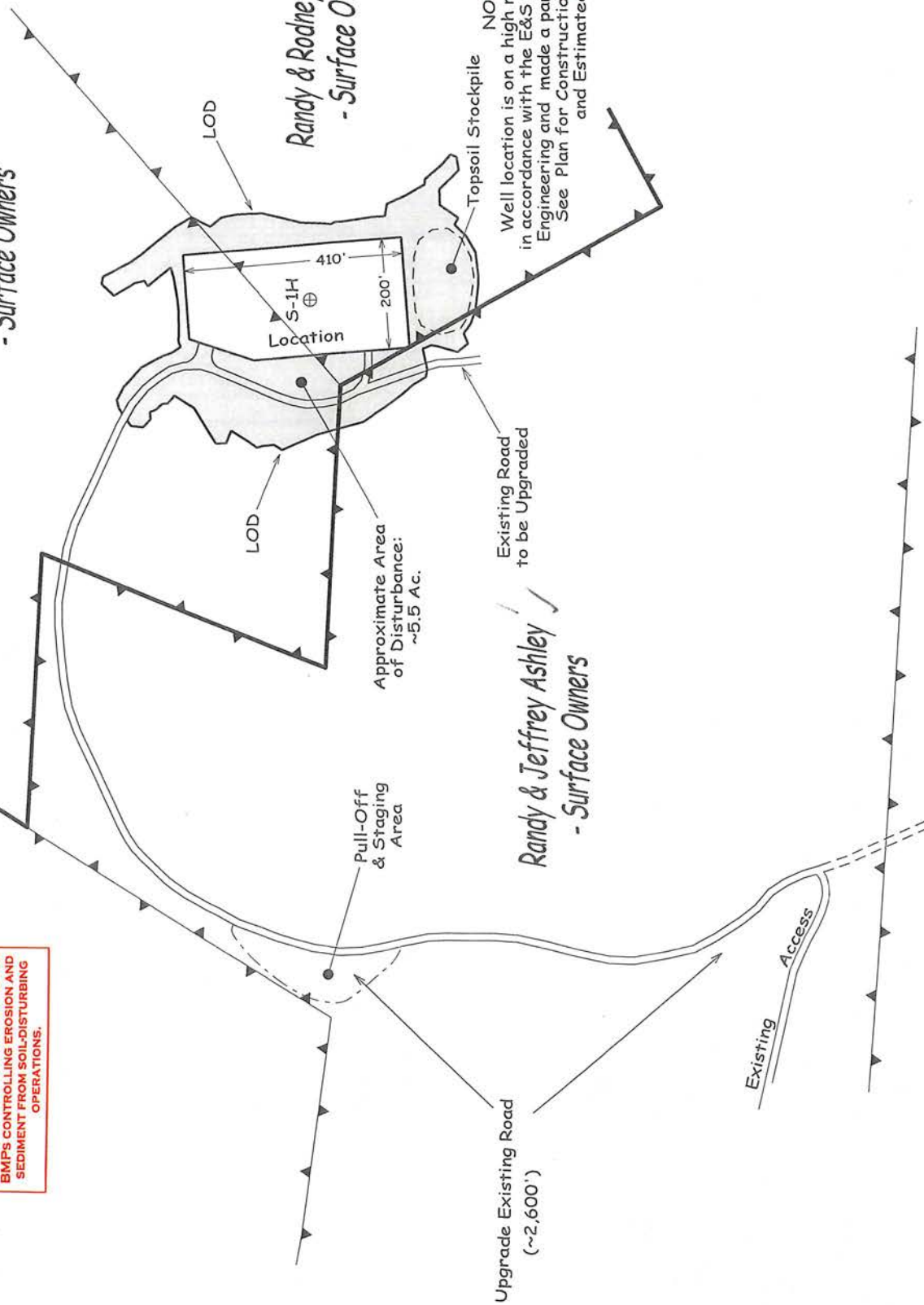
PINKARD BRANNON LEASE

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

Randy & Jeffrey Ashley
- Surface Owners

Randy & Rodney Sleeth
- Surface Owners

Randy & Jeffrey Ashley
- Surface Owners



NOTE
Well location is on a high ridge. Construction will be in accordance with the E&S Plan prepared by Penn E&R Engineering and made a part of this reclamation plan. See Plan for Construction Sequence, E&S details and Estimated Quantities.

Reclamation Plan For:

Pinkard Brannon 1001
Well No. S-1H

02155.03 021057 83

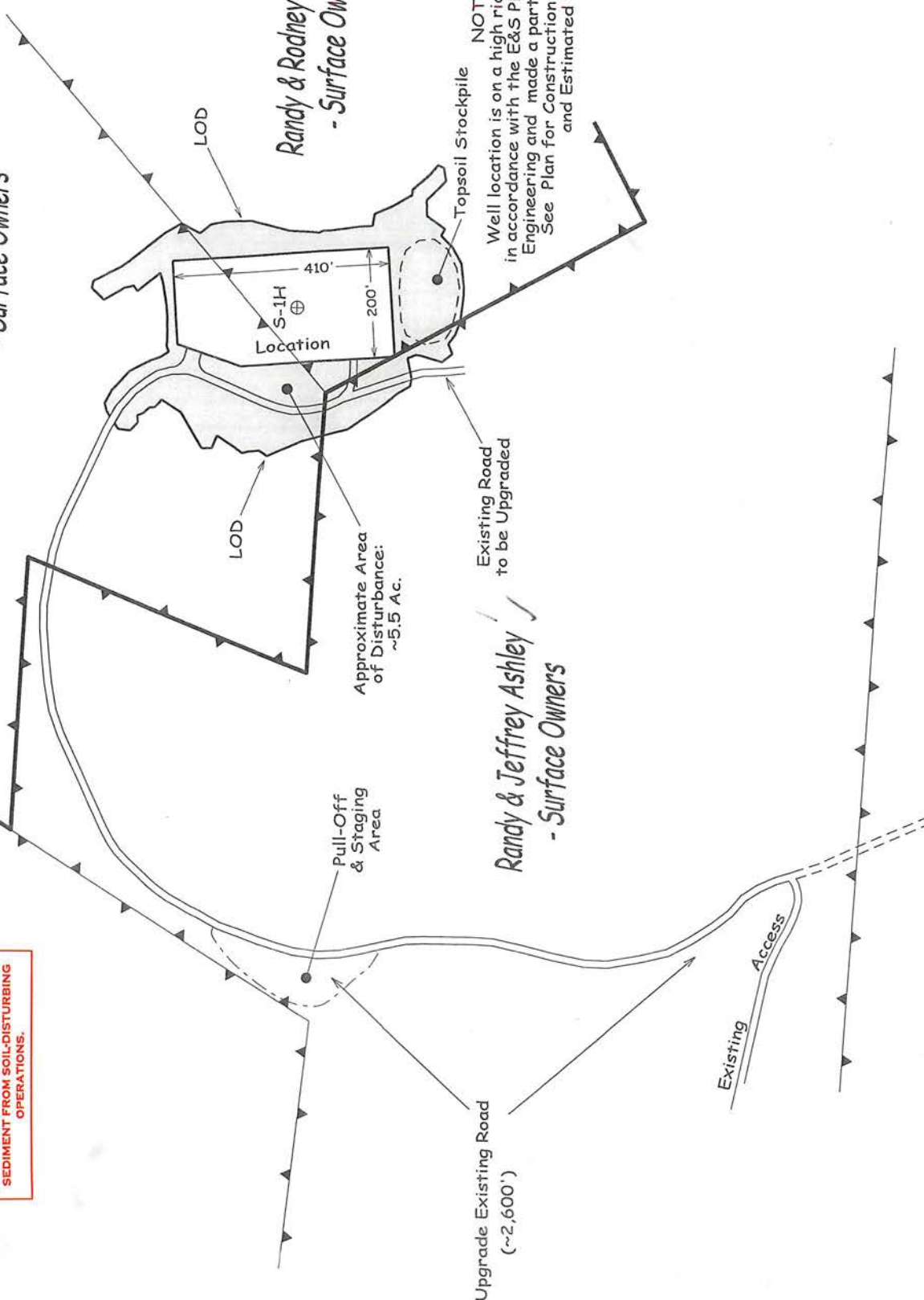
PINKARD BRANNON LEASE

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

Randy & Jeffrey Ashley
- Surface Owners

Randy & Rodney Sleeth
- Surface Owners

Randy & Jeffrey Ashley
- Surface Owners



NOTE
Well location is on a high ridge. Construction will be in accordance with the E&S Plan prepared by Penn E&R Engineering and made a part of this reclamation plan. See Plan for Construction Sequence, E&S details and Estimated Quantities.



02105783

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

June 16, 2015

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Pinkard Brannon Pad, Gilmer County
Pinkard Brannon 1001-S-1H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2015-0229 which has been issued to HG ENERGY, LLC for access to the State Road for a well site located off of Gilmer County Route 4 SLS.

This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Matt McGuire
HG ENERGY, LLC
CH, OM, D-7
File

02105783

List of Frac Additives by Chemical Name and CAS #**Pinkhard Brannon 1001 S-1H**

Chemical Name	CAS #	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2 7647-14-5 12125-02-9 64742-47-8
Pro Hib II	Mixture	68412-54-4 68607-28-3 107-21-1 111-76-2 67-56-1 107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7 1344-28-1 1309-37-1 13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3 10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1 107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0 68439-45-2 2687-96-9
PROGEL - 4	9000-30-0	

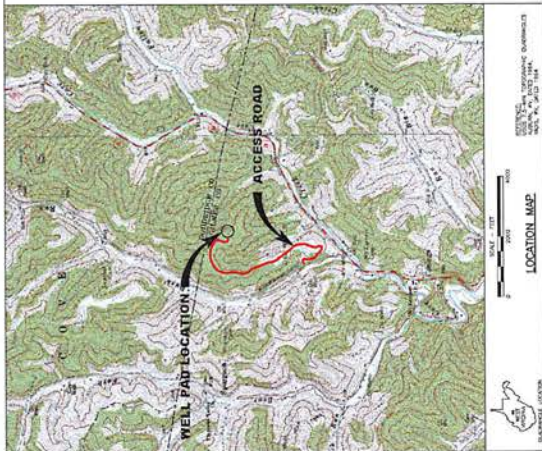
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Environmental Protection

11/06/2015

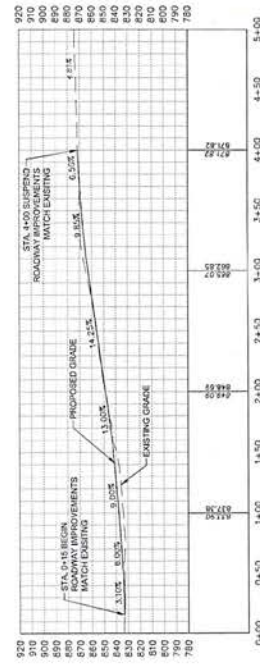
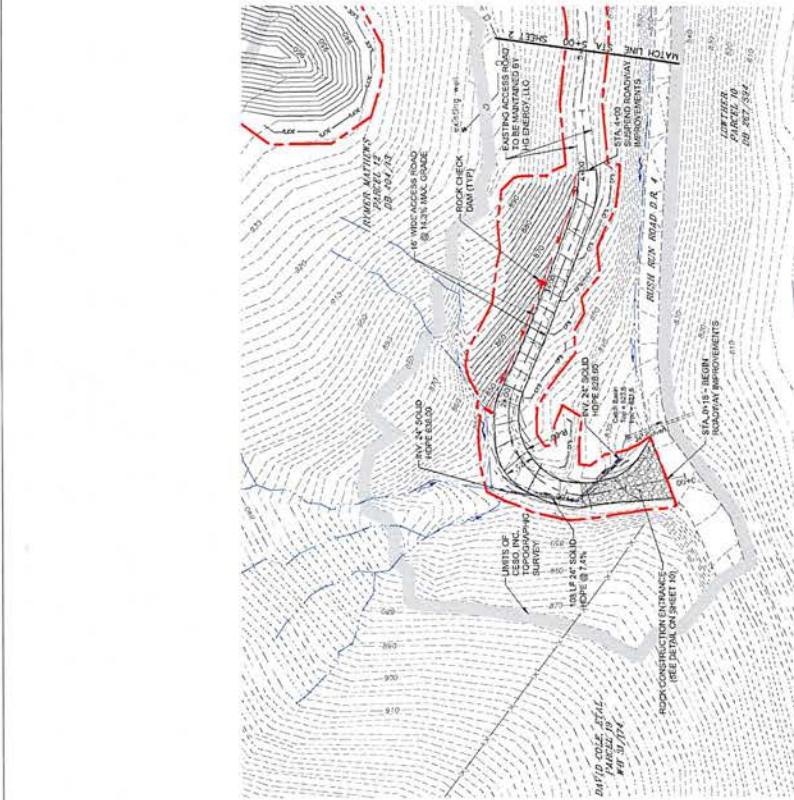
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Office of Oil and Gas
JUN 17 2015
WV Department of
Environmental Protection

DM

11/06/2015



Estimated Gross Material Balance (CY)	Final Development - Operation	Stockpile
Final Site Balance	-3,011	
Striproad Topsoil (Unit of Disturbance)	18,135	
Exc. Small Patches	3,627	
Exc. Topsoil Patches, Yards and Erosion CTY	17,271	
Material Total Stockpile Capacity Required (CY)		17,271

1. Material balance for rock, grout, setback, quantities only.
2. Topsoil est. volume based on 12 inches average depth.
3. Material balance and aggregate quantities based on estimates and may not be representative of actual quantities.
4. Estimates do not reflect contractor pay volumes.

Estimated Gravel Quantities (Paved CY)	Access Road	Final	TOTAL
Gravel Quantities	0	789	789
Subgrade Compaction (4in. Stock Length LP)	5,796	1,700	7,496
Estimated Layer of Disturbance (Paved)			14,285

TABLE 1 SHEET 1 OF 13

SHT. NO.	DESCRIPTION
1-4	SITE DEVELOPMENT PLAN
5	WELL PAD CROSS SECTIONS
6	ACCESS ROAD CROSS SECTIONS
7	CONSTRUCTION DETAILS
8-13	SITE RECONSTRUCTION PLAN

LEGEND

—	WELL HEAD
—	W/PAV ASPH
—	ACCESS ROAD/PAV DRIVEWAY
—	CONCRETE FILLER SOAK B" W/ACCESS DRIVEWAY
—	SHOULDER COMPACT FILLER SOAK B"
—	APPROXIMATE LIMITS OF DISTURBANCE
—	APPROXIMATE PROPERTY LINE
—	PROPOSED ROAD
—	EXISTING INDEX CONTOUR
—	EXISTING INTERMEDIATE CONTOUR
—	PROPOSED FINAL GRADE INTERCHANGE
—	PROPOSED FINAL GRADE INTERCHANGE

NOTE: REVISIONS TO THIS DRAWING SHALL BE SHOWN ON THIS SHEET ONLY.

1. APPROXIMATE GRADING SHOWN FOR CONSTRUCTION PURPOSES ONLY. FINAL GRADING SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND SPACING.

2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND TO ALL UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

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HIG ENERGY LLC
PARKERSBURG, WEST VIRGINIA

WEST VIRGINIA STATE PLANE
COORDINATES WV STATE PLANE,
SOUTH ZONE, NAD 83.

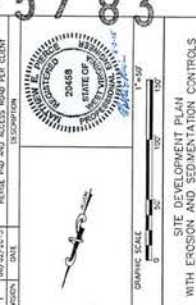
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Miss Utility of West Virginia

West Virginia E&R
Environmental & Remediation, Inc.
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412.222.1222

WEST VIRGINIA STATE PLANE
COORDINATES WV STATE PLANE,
SOUTH ZONE, NAD 83.

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COORDINATES WV STATE PLANE,
SOUTH ZONE, NAD 83.



02105783

SITE DEVELOPMENT PLAN
WITH EROSION AND SEDIMENTATION CONTROLS
HIG WELL PAD 1001
TROT DISTRICT
GUILMER COUNTY, WEST VIRGINIA

APPROVED: SEP 02/15 2015
CHECKED: SEP 02/15 2015
DESIGNED: SEP 02/15 2015
PROJECT NO.: 2015-0002-0002-01
PAGE 04 OF 10-01
SHEET 1 OF 13

GRAPHIC SCALE
0 50 100 150
1"=50'

PROJECT NO. 2015-0002-0002-01
PAGE 04 OF 10-01
SHEET 1 OF 13

- LEGEND**
- WITH HEAD
 - W/IMP APPROX
 - ACCESS ROAD/PAD CHANNEL
 - COMPOST FILTER 500K #F UNLESS OTHERWISE NOTED
 - 5% SLOPE
 - STAKED COMPOST FILTER 500K #F
 - APPROXIMATE UNITS OF DISTURBANCE
 - APPROXIMATE PROPERTY LINE
 - APPROXIMATE PROPERTY LINE (ASSUMED APPROXIMATE)
 - EXISTING ROCK CONTOUR
 - EXISTING INTERIMED CONTOUR
 - PROPOSED FINAL GRADE ROCK CONTOUR
 - PROPOSED FINAL GRADE INTERIMED CONTOUR
 - SECTION
 - (SEE SHEET 7)

APPROVED
WV DEP OOG
 10/15/2015

REFERENCE

1. SURVEYOR GENERAL JOHN JONES, NATIONAL ELEVATION CONTROL NO. 20148, HAS REVIEWED THIS PLAN AND FOUND IT TO BE IN ACCORDANCE WITH THE ACT FOR GENERAL PURPOSES ONLY AND HAS MADE NO RECORD OF THIS PLAN.

2. THIS PLAN IS A PRELIMINARY PLAN AND IS NOT TO BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL DATA AND INFORMATION PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL DATA AND INFORMATION PROVIDED TO THE CONTRACTOR.

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REVISION	DATE	DESCRIPTION
1	10/13/2015	REVISE PER WVDOT 6/24/2015 COMMENTS
2	09/27/2015	REVISE PAD AND ACCESS ROAD PER CLIENT

WEST VIRGINIA
 20148
 STATE OF WEST VIRGINIA
 SURVEYOR GENERAL

DATE: 10/15/2015

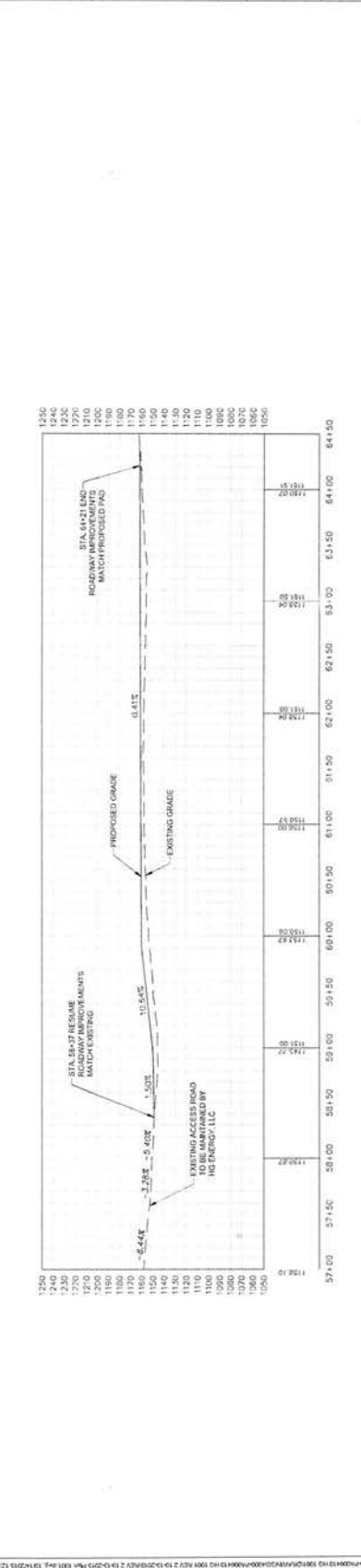
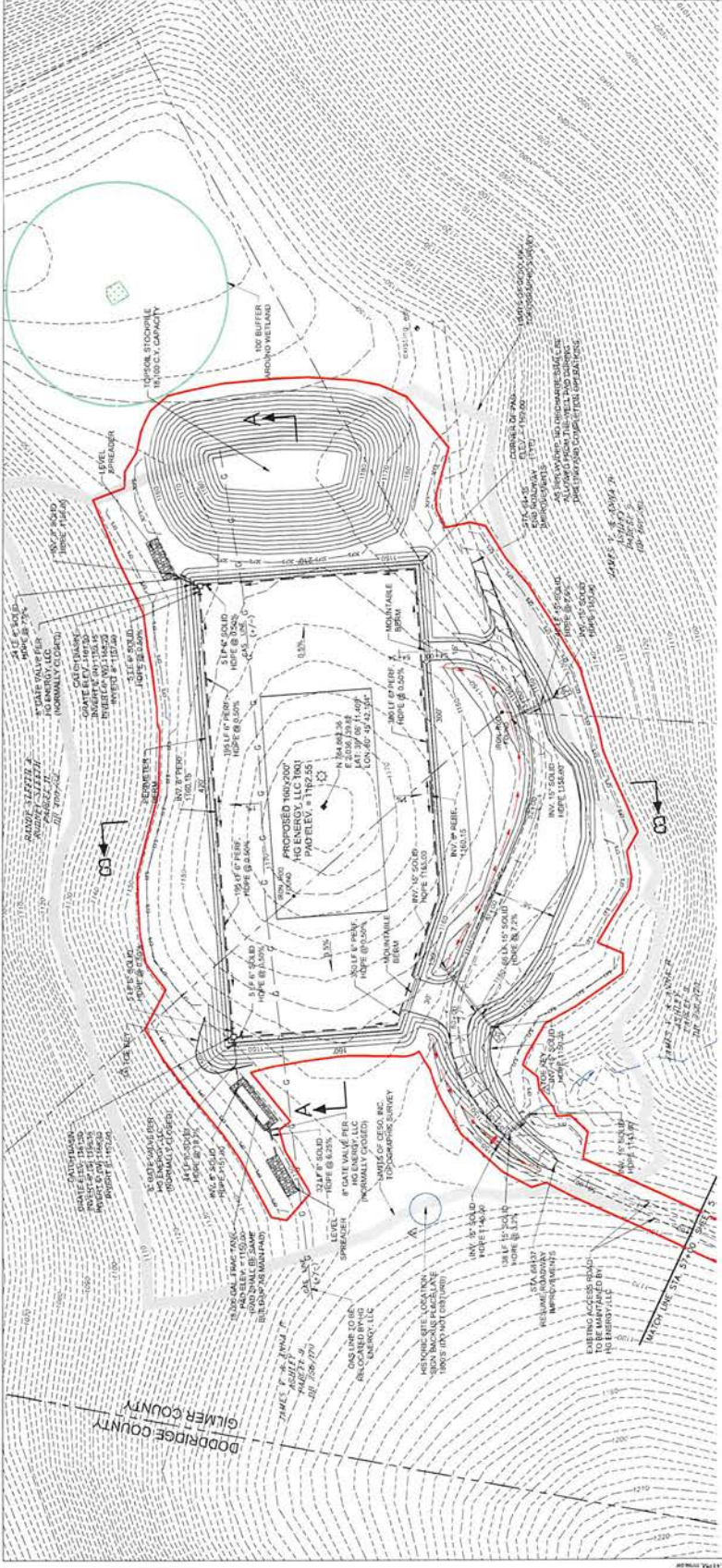
PROJECT: HWY 1001

DRAWING NUMBER: PA006410-01

SHEET 6

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 412-732-1222

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 CONSULTANTS & ENGINEERS, INC.
 111 BROAD STREET, PITTSBURGH, PA 15202
 412-732-1222



WEST VIRGINIA
 20148
 STATE OF WEST VIRGINIA
 SURVEYOR GENERAL

DATE: 10/15/2015

PROJECT: HWY 1001

DRAWING NUMBER: PA006410-01

SHEET 6

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11/06/2015