



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

January 26, 2012

WELL WORK PERMIT

New Well

This permit, API Well Number: 47-8509957, issued to HALL DRILLING, 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 of completion of drilling, 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: ANNIE 1
Farm Name: HAYMOND, ANNIE B. & EDDY L
API Well Number: 47-8509957
Permit Type: New Well
Date Issued: 01/26/2012

Promoting a healthy environment.

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. 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 twenty-five 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.
3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within 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.

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

1 539

1) Well Operator Hall Drilling, LLC

494480467	085	Clay	Pennsboro
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Operator ID County District Quadrangle

2) Operator's Well Number: Annie 1 3) Elevation: 817'

4) Well Type: (a) Oil _____ or Gas _____
(b) If Gas: Production / Underground Storage _____
Deep _____ / Shallow _____

5) Proposed Target Formation(s): Marcellus Proposed Target Depth: 6700' TVD

6) Proposed Total Depth: 6700' TVD _____ Feet Formation at Proposed Total Depth: Marcellus

7) Approximate fresh water strata depths: 11', 37', 98', 143', 330'

8) Approximate salt water depths: 868', 1315', 1661'

9) Approximate coal seam depths: 437'

10) Approximate void depths, (coal, Karst, other): None Anticipated

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work in detail Drill, perforate, fracture a new vertical shallow well and complete Marcellus Shale.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	20"	H-40	94#	40-70'	40-70'	38 Cu. Ft. Class A
Fresh Water	13-3/8"	J-55	48#	420'	420'	583 Cu. Ft. Class A
Coal	9-5/8"	J-55	36#	2400'	2400'	977 Cu. Ft. Class A
Intermediate						
Production	5-1/2"	P-110	20#	6700'	6700'	1313 Cu. Ft. Class H
Tubing	2-3/8"	N-80	4.7#	6600'		
Liners						

Packers: Kind N/A
Sizes N/A
Depths Set N/A

Handwritten: CTS, CTS, CB

1) Date: January 11, 2012
2) Operator's Well Number
Annie 1
3) API Well No.: 47 - 085 - 09957
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:	5) (a) Coal Operator
(a) Name <u>Annie B. Haymond (Life Estate)</u>	Name _____
Address <u>4884 Mountain Drive</u>	Address _____
<u>Pennsboro, WV 26415</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Annie B. Haymond (Life Estate)</u>
	Address <u>4884 Mountain Drive</u>
	<u>Pennsboro, WV 26415</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>David Cowan</u>	(c) Coal Lessee with Declaration
Address <u>601 57th Street</u>	Name _____
<u>Charleston, WV 25304</u>	Address _____
Telephone <u>304-389-3509</u>	

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

X 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)
- 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.

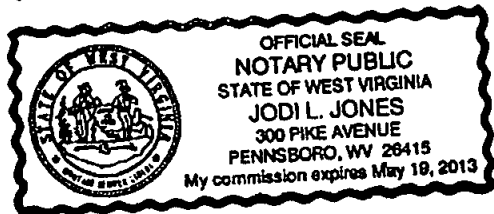
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Hall Drilling, LLC
 By: Mike Hall
 Its: Manager
 Address P.O. Box 249
Ellenboro, WV 26346
 Telephone (304) 869-3404

Subscribed and sworn before me this 25 day of January, 2012

Jodi L. Jones Notary Public
My Commission Expires May 19, 2013



85-09955

WW-2A1
(Rev. 1/11)

Operator's Well Number Annie 1

**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
Annie B. Haymond & Eddy Landrum	Hall Drilling, LLC	15.63%	0253/1066

**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

RECEIVED
Office of Oil & Gas
JAN 18 2012
Department of Environmental Protection

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:
By: Its:



Hall Drilling, LLC

Mike Hall, Manager

WW-2B1

Well No. Annie 1

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 2000 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 the operator to perform analysis, and contractor chosen to collect sample:

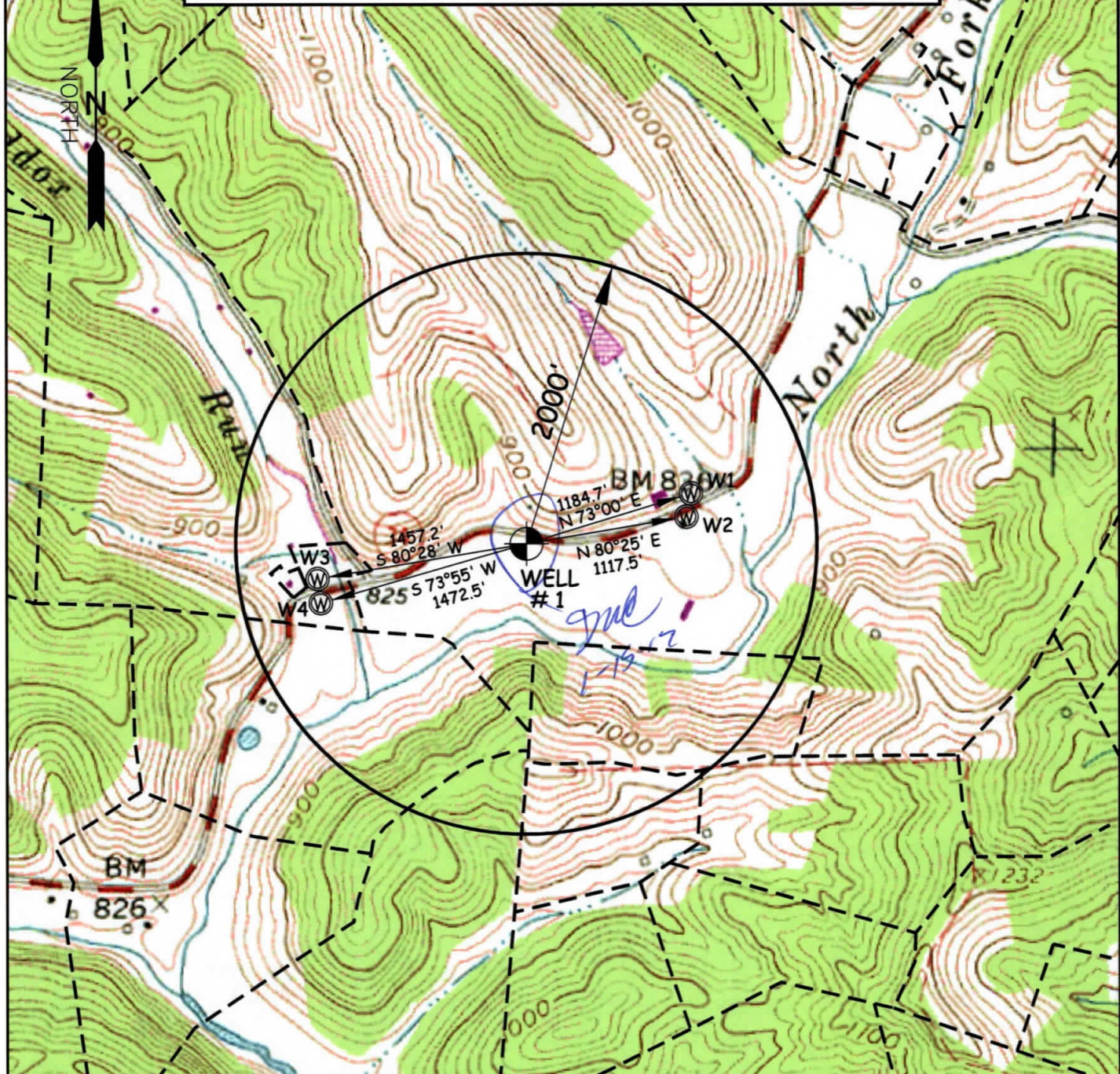
Certified Laboratory Name Reliance Laboratories, Inc., P.O. Box 4657
Sampling Contractor Bridgeport, WV 26330 Tel:(304)842-5285

Well Operator Hall Drilling, LLC
Address P.O. Box 249
Elenboro, WV 26346
Telephone (304) 869-3404

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 2000 feet of the proposed site please indicate such.

There are 4 water wells within 2,000' of this well location. Please be advised that Hall Drilling, LLC has selected to sample and analyze all water wells as indicated below:

- Annie B. Haymond (2 water wells) 4884 Mountain Drive, Pennsboro, WV 26415 ✓
- Toby White 4281 Mountain Drive, Pennsboro, WV 26415 ✓
- Richard M. Robertson 4292 Mountain Drive, Pennsboro, WV 26415 ✓



WELL	SURFACE OWNER	ADDRESS
W1	Annie B. Haymond	4884 Mountain Dr. Pennsboro, WV 26415
W2	Annie B. Haymond	4884 Mountain Dr. Pennsboro, WV 26415
W3	Toby White	4281 Mountain Dr. Pennsboro, WV 26415
W4	Richard M. Robertson	4292 Mountain Dr. Pennsboro, WV 26415

WILLOW LAND SURVEYING PLLC P.O. BOX 17, PENNSBORO, WV 26415 (304) 659-1717	TOPO SECTION(S) OF : PENNSBORO 7.5' QUAD	SCALE : 1-INCH = 1000-FEET 0' 1000' 2000' 3000'
	DATE: 1/11/12 DRAWN BY: TBS	

CERTIFIED MAIL RECEIPT
ANNIE 1
SURFACE OWNER NOTIFICATION
WATER WELL ANALYTICAL TESTING

Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. **DO NOT PHOTO COPY OR ALTER LABEL.**
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, **DO NOT TAPE OVER BARCODE.** Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Carrier Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

Online Label Record (Label 2 of 3)

Signature Confirmation™ Number:
9410 8036 9930 0027 0411 63

Paid Online

Transaction #:	219896266	Priority Mail® Postage:	\$5.34
Print Date:	01/11/2012	Signature Confirmation:	\$2.05
Ship Date:	01/11/2012	(Electronic Rate)	
Weight:	0 lb 6 oz	Total:	\$7.39

From: MIKE HALL
 HALL DRILLING, LLC
 PO BOX 249
 ELLENBORO WV 26346-0249

To: ANNIE B. HAYMOND
 4884 MOUNTAIN DR
 PENNSBORO WV 26415-6184

* Commercial Base Pricing Priority Mail rates apply. Signature Confirmation service electronic fee required. Delivery information is not available by phone for the electronic rate. Refunds for unused postage paid labels can be requested online 10 days from the print date. A copy of the recipient's signature will be faxed or mailed upon request by visiting the web site listed below or calling 1-800-222-1811.



Thank you for shipping with the United States Postal Service!
 Check the status of your shipment on the Track & Confirm page at usps.com

CERTIFIED MAIL RECEIPT
ANNIE 1
SURFACE OWNER NOTIFICATION
WATER WELL ANALYTICAL TESTING

Instructions

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5. Mail your package on the "Ship Date" you selected when creating this label.

Online Label Record (Label 1 of 3)

Signature Confirmation™ Number:
9410 8036 9930 0027 0411 56

Paid Online	
Transaction #: 219896266	Priority Mail® Postage: \$5.34
Print Date: 01/11/2012	Signature Confirmation: \$2.05
Ship Date: 01/11/2012	(Electronic Rate)
Weight: 0 lb 6 oz	Total: \$7.39

From: MIKE HALL
HALL DRILLING, LLC
PO BOX 249
ELLENBORO WV 26346-0249

Ref#: Annie 1

To: TOBY WHITE
4281 MOUNTAIN DR
PENNSBORO WV 26415-6183

* Commercial Base Pricing Priority Mail rates apply. Signature Confirmation service electronic fee required. Delivery information is not available by phone for the electronic rate. Refunds for unused postage paid labels can be requested online 10 days from the print date. A copy of the recipient's signature will be faxed or mailed upon request by visiting the web site listed below or calling 1-800-222-1811.



Thank you for shipping with the United States Postal Service!

Check the status of your shipment on the Track & Confirm page at usps.com

CERTIFIED MAIL RECEIPT
ANNIE 1
SURFACE OWNER NOTIFICATION
WATER WELL ANALYTICAL TESTING

Instructions

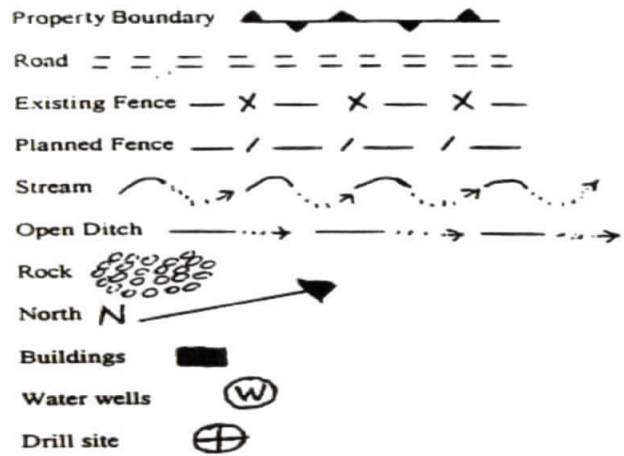
1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. **DO NOT PHOTO COPY OR ALTER LABEL.**
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, **DO NOT TAPE OVER BARCODE.** Be sure all edges are secure.
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5. Mail your package on the "Ship Date" you selected when creating this label.

Online Label Record (Label 3 of 3)

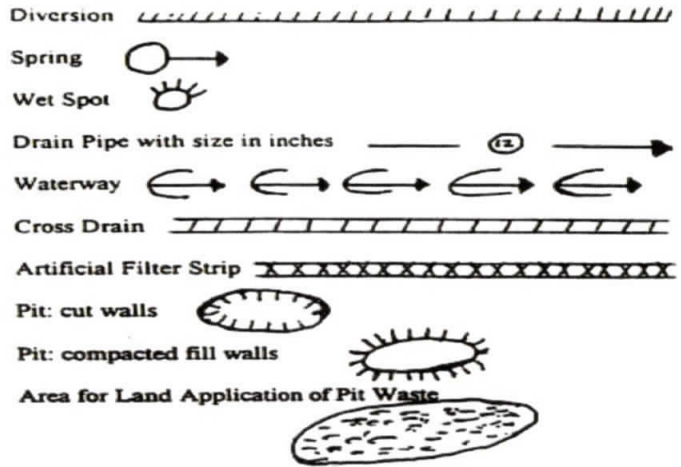
Signature Confirmation™ Number: 9410 8036 9930 0027 0411 49	
Paid Online	
Transaction #: 219896266	Priority Mail® Postage: \$5.34
Print Date: 01/11/2012	Signature Confirmation: \$2.05
Ship Date: 01/11/2012	(Electronic Rate)
Weight: 0 lb 6 oz	Total: <u>\$7.39</u>
From: MIKE HALL HALL DRILLING, LLC PO BOX 249 ELLENBORO WV 26348-0249	
To: RICHARD M. ROBERTSON 4292 MOUNTAIN DR PENNSBORO WV 26415-6182	
<small>* Commercial Base Pricing Priority Mail rates apply. Signature Confirmation service electronic fee required. Delivery information is not available by phone for the electronic rate. Refunds for unused postage paid labels can be requested online 10 days from the print date. A copy of the recipient's signature will be faxed or mailed upon request by visiting the web site listed below or calling 1-800-222-1811.</small>	



Thank you for shipping with the United States Postal Service!
 Check the status of your shipment on the Track & Confirm page at usps.com



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.8 ✓ Prevegetation pH 6.0 ✓
 Lime 2-3 Tons/acre or to correct to pH 6.5 *Preseed a mulch all cut over no less than 2 ton per acre*
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch 2-3 Tons/acre Hay or straw or Wood Fiber (will be used where needed)

Seed Mixtures

Seed Type	Area I (Temporary) lbs/acre	Seed Type	Area II (Permanent) lbs/acre
Annual Rye Grass	40	Fox Tail/Grassy	40
		Perennial Rye	30

Attach: Drawing(s) of road, location, pit and proposed area for land application.

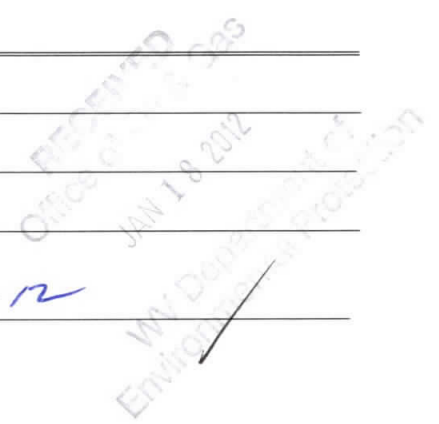
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: David Wilson ✓

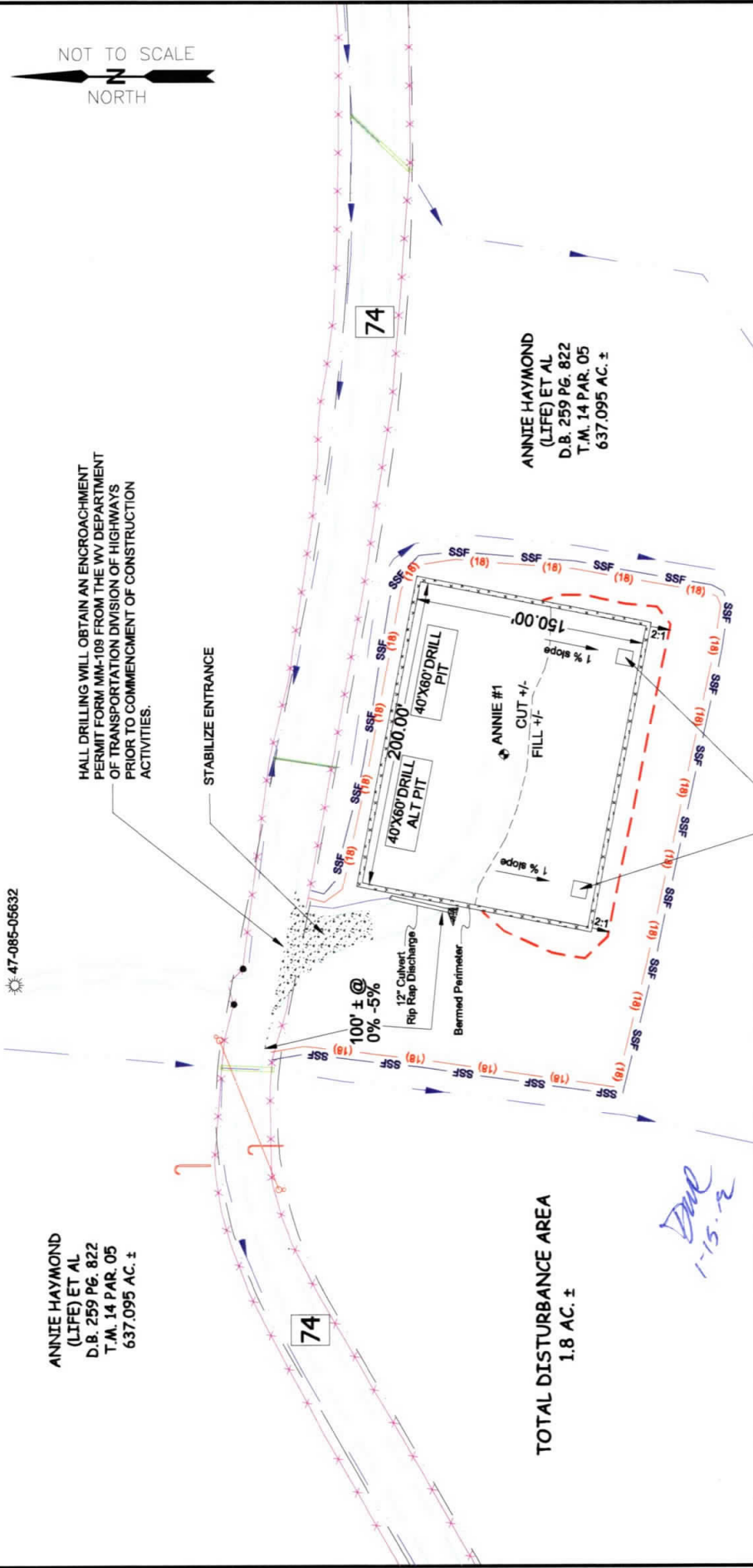
Comments: _____

Title: air gas inspector Date: 1-15-12

Field Reviewed? () Yes () No



85-09957



ANNIE HAYMOND
(LIFE) ET AL
D.B. 259 PG. 822
T.M. 14 PAR. 05
637.095 AC. ±

TOTAL DISTURBANCE AREA
1.8 AC. ±

ANNIE HAYMOND
(LIFE) ET AL
D.B. 259 PG. 822
T.M. 14 PAR. 05
637.095 AC. ±

LEGEND

TRAVELED WAY	---
RIGHT OF WAY	---
DRAIN	---
FENCE LINE	---
OVERHEAD UTILITY	---
SUPER SILT FENCE	---
18" COMPOST FILTER SOCK	---
OHU	---
SSF	---
(18)	---
(18)	---

POSITIVE FLOW FROM PAD TO SUMPS.
SEDIMENT AND MATERIALS FROM PAD SUMPS
SHALL BE PUMPED TO ON-SITE HOLDING TANKS.

HALL DRILLING WILL OBTAIN AN ENCROACHMENT
PERMIT FORM MM-109 FROM THE WV DEPARTMENT
OF TRANSPORTATION DIVISION OF HIGHWAYS
PRIOR TO COMMENCEMENT OF CONSTRUCTION
ACTIVITIES.

SEDIMENT BASINS AND APPROPRIATE
EROSION CONTROL BARRIERS ARE TO BE
CONSTRUCTED AT ALL CULVERT AND CROSS
DRAIN INLETS AND OUTLETS AS REQUIRED IN
THE D.E.P. OIL AND GAS BMP MANUAL.
FIELD CONDITIONS MAY PROHIBIT INLET
TRAPS BEING INSTALLED. WHEN THESE
CONDITIONS EXIST, ADDITIONAL EROSION
CONTROL MEASURES SHALL BE EVALUATED
AND UTILIZED WHEN NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE
FOR NOTIFICATION TO THE OPERATOR AND
INSPECTOR PRIOR TO ANY DEVIATION FROM
THIS RECLAMATION PLAN.
PRE SEED AND MULCH ALL SLOPES AFTER
CONSTRUCTION OF LOCATION.

PREPARED FOR:	HALL DRILLING, LLC P.O. BOX 249 ELLENBORO, WV 26415
DRAFTED BY:	DRR
DATE:	01.11.2012
JOB #:	12-001
FILE NAME:	ANNIEREC1
WELL #:	ANNIE #1
PREPARED BY:	WILLOW LAND SURVEYING PLLC P.O. BOX 17, PENNSBORO, WV 26415 (304) 659-1717

Form WW-9 Additives Attachment**SURFACE INTERVAL**

1. Fresh Water

INTERMEDIATE INTERVAL

1. Fresh Water
2. Soap -Foamer AC
3. Air

PRODUCTION INTERVAL

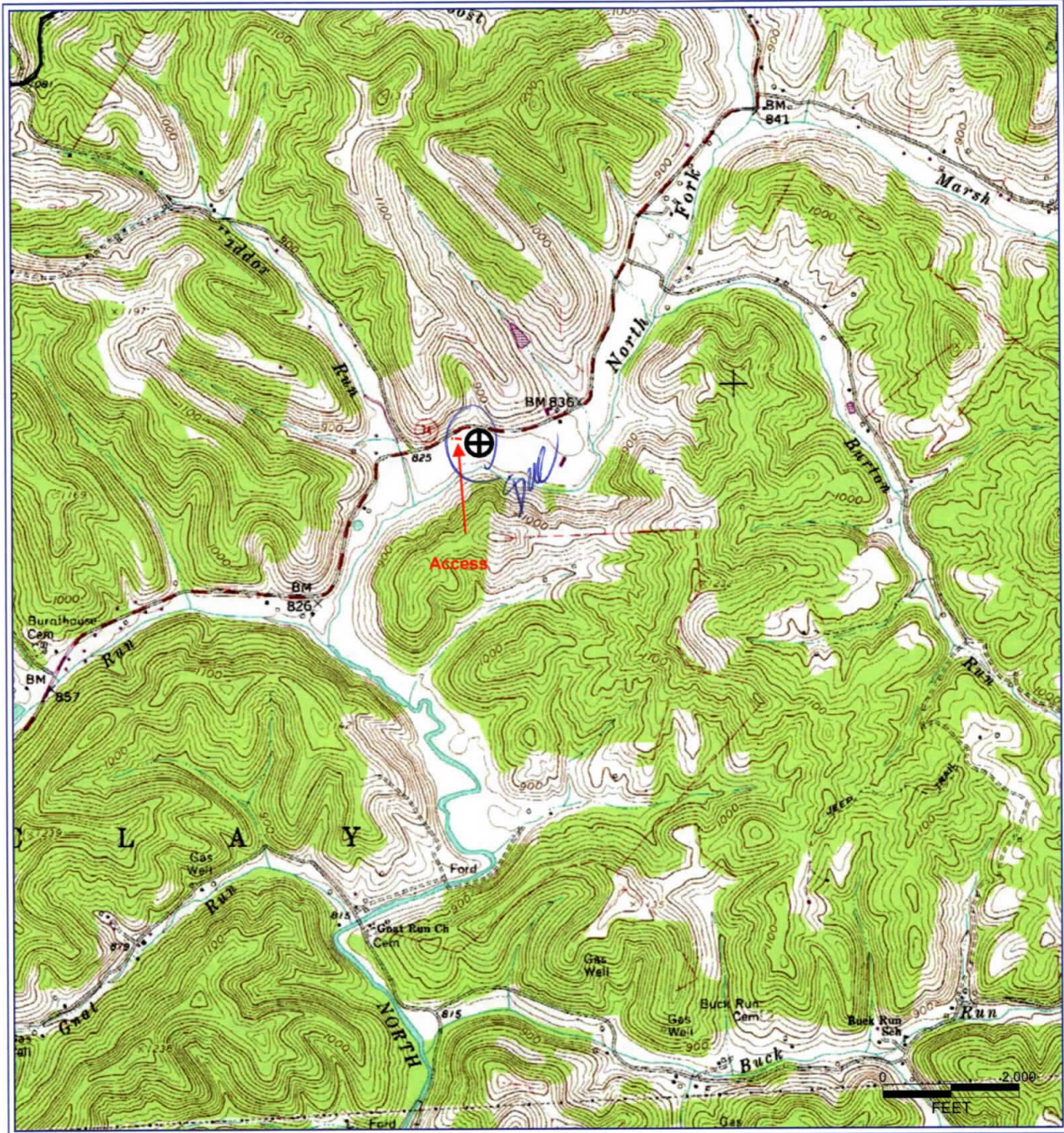
1. Alpha 1655
Salt Inhibitor
2. Mil-Carb
Calcium Carbonate
3. Cottonseed Hulls
Cellulose-Cottonseed Pellets - LCM
4. Mil-Seal
Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM
5. Clay-Trol
Amine Acid Complex - Shale Stabilizer
6. Xan-Plex
Viscosifier For Water Based Muds
7. Mil-Pac (All Grades)
Sodium Carboxymethylcellulose - Filtration Control Agent
8. New Drill
Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer
9. Caustic Soda
Sodium Hydroxide - Alkalinity Control
10. Mil-Lime
Calcium Hydroxide - Lime
11. LD-9
Polyether Polyol - Drilling Fluid Defoamer
12. Mil Mica
Hydro-Biotite Mica - LCM
13. Escaid 110
Drilling Fluid Solvent - Aliphatic Hydrocarbon
14. Ligco
Highly Oxidized Leonardite - Filtration Control Agent
15. Super Sweep
Polypropylene - Hole Cleaning Agent
16. Sulfatrol K
Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous
Inorganic Salt
18. D-D
Drilling Detergent – Surfactant
19. Terra-Rate
Organic Surfactant Blend
20. W.O. Defoam
Alcohol-Based Defoamer
21. Perma-Lose HT
Fluid Loss Reducer For Water-Based Muds
22. Xan-Plex D
Polysaccharide Polymer – Drilling Fluid Viscosifier
23. Walnut Shells
Ground Cellulosic Material – Ground Walnut Shells – LCM
24. Mil-Graphite
Natural Graphite – LCM
25. Mil Bar
Barite – Weighting Agent
26. X-Cide 102
Biocide
27. Soda Ash
Sodium Carbonate – Alkalinity Control Agent
28. Clay Trol
Amine Acid complex – Shale Stabilizer
29. Sulfatrol
Sulfonated Asphalt – Shale Control Additive
30. Xanvis
Viscosifier For Water-Based Muds
31. Milstarch
Starch – Fluid Loss Reducer For Water Based Muds
32. Mil-Lube
Drilling Fluid Lubricant

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas


Well Work Permit Application Addendum
(to be completed when fluid volumes used or
disposed may be greater than 5000 barrels)

- 1.) Well Operator: Hall Drilling, LLC.
- 2.) Operator ID #: 494480467.
- 3.) Operator's Well Number: Annie 1.
- 4.) County: Ritchie.
- 5.) Approximate Amount of Water to be Used (bbls): 15000 bbls.
- 6.) Fracture/Drilling Water Source (estimate % of each source to be used):
 Surface Water Groundwater 100% Purchased Water
 Reused Water
- 7.) Location of Purchased Water Source (if applicable)
Public/Private Water System Name: City of Salem Freshwater Withdrawal.
- 8.) Location of Reused Water (if applicable)
County: .
Well/Facility ID: .
- 9.) Will Centralized Pits/Ponds be Utilized yes X no
Location (if applicable) : Latitude (d/m/s) Longitude (d/m/s) .
Dimensions in Feet (if applicable) Length Width Depth .
- 10.) Water Disposal Method (estimate % each facility is to receive)
 Land Application n/a UIC -provide UIC Permit Number .
n/a POTW-provide Facility Name .
n/a NPDES-provide Permit Number .
 Other
X (100% Returned) Other Re-Use- water returned from flow back will be used for future
permitted well locations when applicable; API # will be provided on DMR Form WR-34



PETRA 1/11/2012 9:07:13 AM

1-13-14

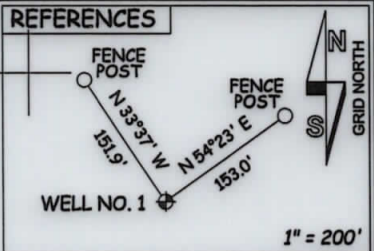
Hall Drilling, LLC
Appalachian Basin
Annie #1
Ritchie County
Ratio Scale = 1 : 24,000 
REMARKS QUADRANGLE: PENNSBORO WATERSHED: NORTH FORK HUGHES RIVER DISTRICT: CLAY
Date: 01/11/2012

LATITUDE 39°20'00"

3,602'

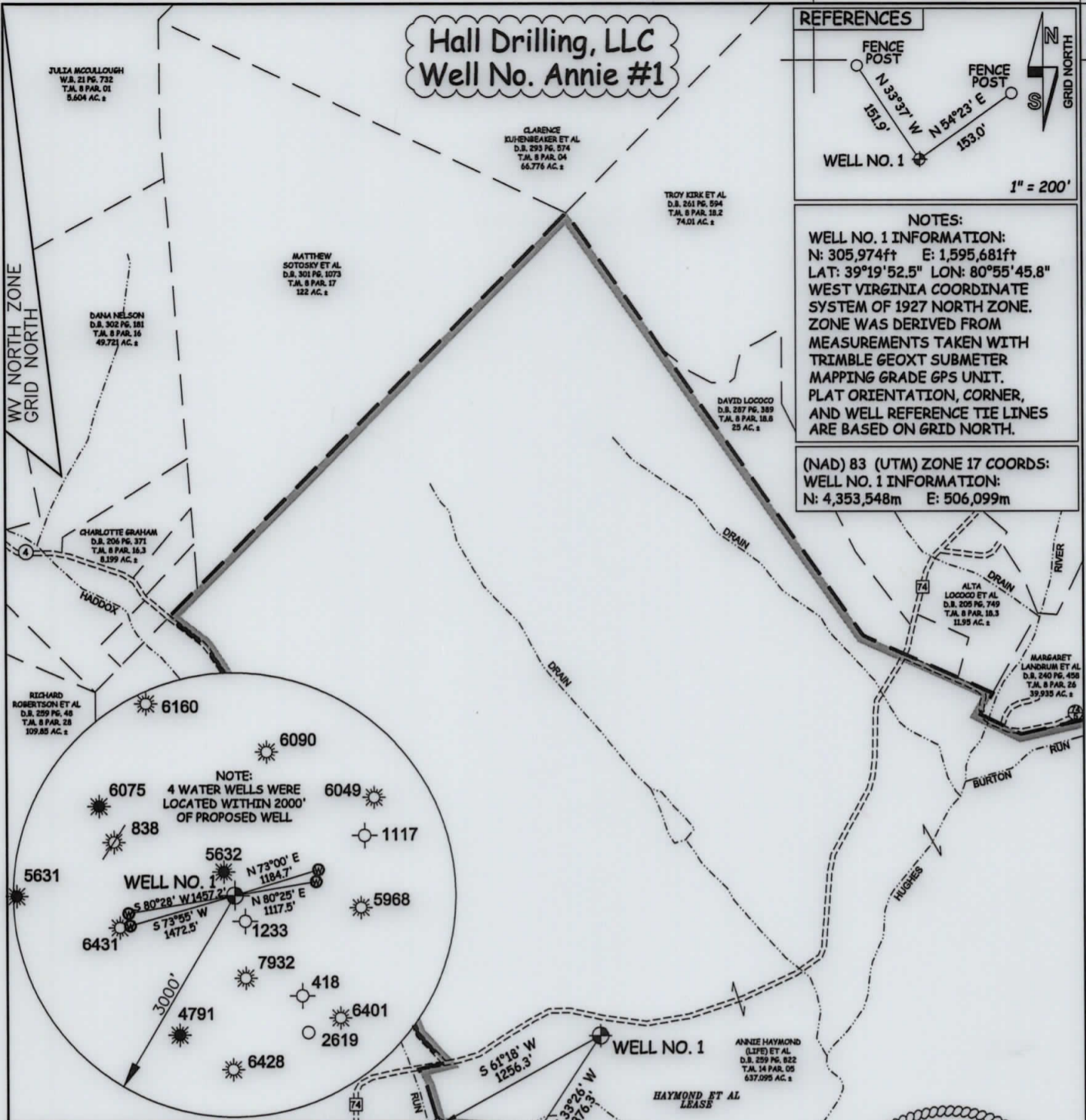
LONGITUDE 80°55'00"

Hall Drilling, LLC Well No. Annie #1



NOTES:
WELL NO. 1 INFORMATION:
 N: 305,974ft E: 1,595,681ft
 LAT: 39°19'52.5" LON: 80°55'45.8"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL NO. 1 INFORMATION:
 N: 4,353,548m E: 506,099m

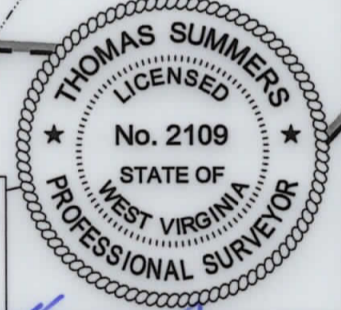


LEGEND

- Surface Owner Boundary Lines +/-
- - - - Interior Surface Tracts +/-
- x - x - x - Existing Fence
- ⊕ Found monument, as noted

JOB # 12-001
 DRAWING # ANNIEP1
 SCALE 1" = 1000'

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.



MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

Thomas Summers
 THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 01/09/12
 OPERATOR'S WELL # ANNIE #1

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 817' WATERSHED NORTH FORK HUGHES RIVER

API WELL # 47 - 085 - 09957
 STATE COUNTY PERMIT

QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER ANNIE HAYMOND (LIFE) ACREAGE 637.095 ACRES +/-
 OIL & GAS ROYALTY OWNER ANNIE HAYMOND ET AL LEASE ACREAGE 604 ACRES +/-
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG & ABANDON ___ CLEAN OUT & REPLUG ___ ESTIMATED DEPTH 6,700' TVD
 TARGET FORMATION MARCELLUS
 WELL OPERATOR HALL DRILLING, LLC DESIGNATED AGENT MIKE HALL
 ADDRESS P.O. BOX 249 ADDRESS P.O. BOX 249
ELLENBORO, WV 26346 ELLENBORO, WV 26346

COUNTY NAME PERMIT

ELLENBORO, WV 26348 P.O. BOX 249 HALL DRILLING, LLC

ELLENBORO, WV 26348 P.O. BOX 249 MICHAEL HALL DESIGNATED AGENT

ESTIMATED DEPTH 8,700' TVD TARGET FORMATION CLEAN OUT & REPLUG

OTHER PHYSICAL CHANGE IN WELL (SPECIFY) OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR

OIL & GAS ROYALTY OWNER ANNE HAYMOND ET AL LEASE ACREAGE 604 ACRES +/-

SURFACE OWNER ANNE HAYMOND (LIFE) QUADRANGLE PENNSBORO T.S. DISTRICT CLAY COUNTY RITCHIE

LOCATION: ELEVATION 817' WATERSHED NORTH FORK HUGHES RIVER STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL API WELL # 088

DEPARTMENT OF OIL AND GAS DIVISION OF OIL AND GAS STATE OF WEST VIRGINIA

PROVEN SOURCE OF ELEV. ACCURACY SUBMETER SUBMETER MAPPING GRADE GPS

MINIMUM DEGREE OF ACCURACY SUBMETER

SCALE 1" = 1000'

DRAWING # ANNIE#1 JOB # 15-001

THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. REQUIRED BY LAW AND THE REGULATIONS ISSUED AND DESCRIBED BY

THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO

WEST VIRGINIA 26415 WILLLOW LAND SURVEYING PLLC OFFICE OF OIL AND GAS

STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, THOMAS SUMMERS P.S. 2109

DATE 01/03/15

OPERATOR'S WELL # ANNIE #1

COUNTY NAME PERMIT

STATE COUNTY PERMIT

DATE 01/03/15

OPERATOR'S WELL # ANNIE #1

COUNTY NAME PERMIT

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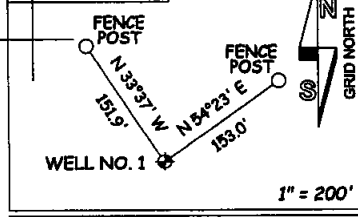
LATITUDE 39°20'00"

3,602'

LONGITUDE 80°55'00"

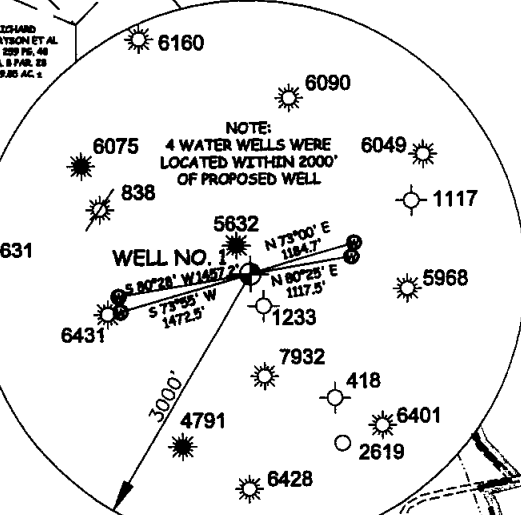
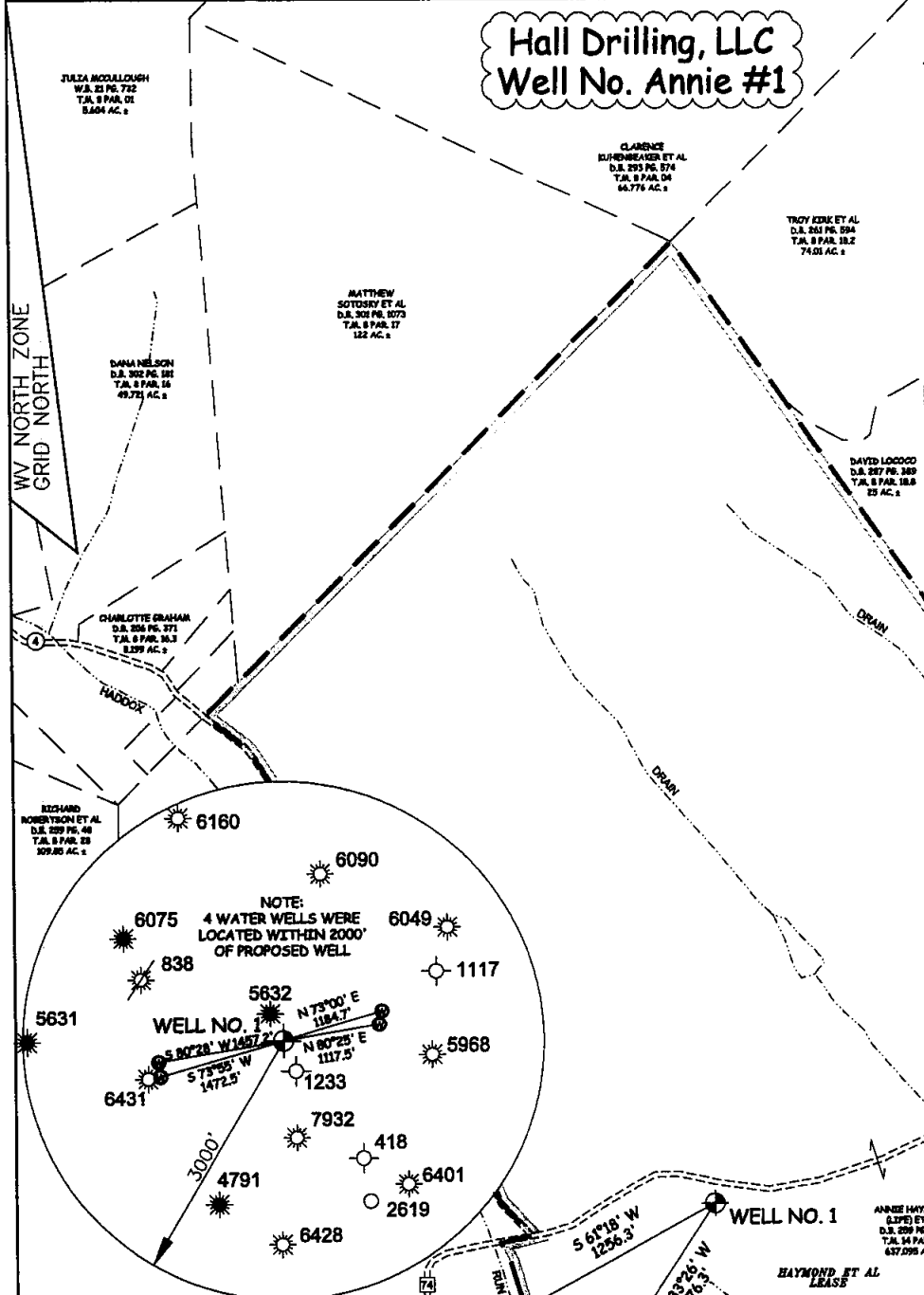
Hall Drilling, LLC Well No. Annie #1

REFERENCES



NOTES:
WELL NO. 1 INFORMATION:
 N: 305,974ft E: 1,595,681ft
 LAT: 39°19'52.5" LON: 80°55'45.8"
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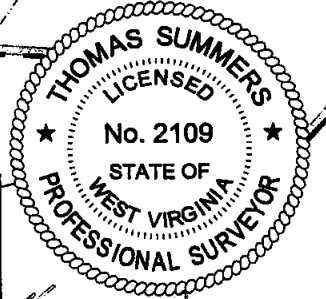
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL NO. 1 INFORMATION:
 N: 4,353,548m E: 506,099m



NOTE:
 4 WATER WELLS WERE LOCATED WITHIN 2000' OF PROPOSED WELL

LEGEND

- Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
- x - x - x - Existing Fence
- ⊕ Found monument, as noted



JOB # 12-001
 DRAWING # ANNIEP1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

THOMAS SUMMERS P.S. 2109
 DATE 01/09/12
 OPERATOR'S WELL# ANNIE#1

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 817 WATERSHED NORTH FORK HUGHES RIVER

API WELL # 47 - 085 - 04457
 STATE COUNTY PERMIT

QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER ANNIE HAYMOND (LIFE) ACREAGE 637.095 ACRES +/-
 OIL & GAS ROYALTY OWNER ANNIE HAYMOND ET AL LEASE ACREAGE 604 ACRES +/-
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG & ABANDON ___ CLEAN OUT & REPLUG ___ ESTIMATED DEPTH 6,700' TVD
 TARGET FORMATION MARCELLUS
 WELL OPERATOR HALL DRILLING, LLC DESIGNATED AGENT MIKE HALL
 ADDRESS P.O. BOX 249 ADDRESS P.O. BOX 249
 ELLENBORO, WV 26346 ELLENBORO, WV 26346

COUNTY NAME PERMIT

T. Pennsboro

56

Operator: HALL DRILLING, LLC API: 8509957

WELL No: ANNIE 1

Reviewed by: La Date: 1-25-12

15 Day End of Comment: W



CHECKLIST FOR FILING A PERMIT

New Well

WW-2B

Inspector signature on WW-2B

WW-2A (Notarized)

Certified Mail Receipts, Waivers, or Affidavits of Personal Service

Surface Owner Waiver

Coal Owner / Lessee / Operator Waiver

WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage

WW-2B-1 (Names, addresses, and spot on topographical map listed as water testing)

WW-9 (Page 1 & 2) (Notarized)

More than 5,000 bbls

Inspector Signature on WW-9

Reclamation plan

Topographic Map of location of well

Mylar Plat (Signed and Sealed) (Surface owner on plat matches WW-2A)

Bond

Company is Registered with the SOS

Worker's Compensation / Unemployment Insurance account is OK

\$650.00 check (\$550.00 if no pit)

Mine Data

Addendum

Flow Distance to Nearest Intake 22.6 miles

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

OK

surface & coal owner same - don't have signed waiver on coal

spots in a black hole - Plat spots

fine for 1-25-11

MA

MA

MA

outside of floodplain

Map from a Flex Viewer application

Powered by ArcGIS



Copyright 2010 ESRI. All rights reserved. Printed on Wed Jan 25 2012 04:30:43 PM.

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Ritchie Operator Hall Drilling, LLC
Operator well number Annie 1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION**

RECEIVED
Office of Oil & Gas

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

JAN 18 2012

WV Department of
Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure a adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

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

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Annie B. Hayward
Signature
Annie B. Hayward
Print Name

Date 1-17-12

Company Name Hall Drilling, LLC
By Michael T. Hall
its President
Signature [Signature]
Date 1/17/2012

CERTIFIED MAIL RECEIPT
ANNIE 1
SURFACE OWNER NOTIFICATION

Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Carrier Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

Online Label Record (Label 1 of 1)

Signature Confirmation™ Number:
9410 8036 9930 0027 0408 07

Paid Online

Transaction #:	219895561	Priority Mail® Postage:	\$5.34
Print Date:	01/11/2012	Signature Confirmation:	\$2.05
Ship Date:	01/12/2012	(Electronic Rate)	
Weight:	0 lb 6 oz	Total:	\$7.39

From: MIKE HALL
HALL DRILLING, LLC
PO BOX 249
ELLENBORO WV 26346-0249

Ref#: Annie1

To: ANNIE B. HAYMOND & EDDY LANDRUM
4884 MOUNTAIN DR
PENNSBORO WV 26415-6184

* Commercial Base Pricing Priority Mail rates apply. Signature Confirmation service electronic fee required. Delivery information is not available by phone for the electronic rate. Refunds for unused postage paid labels can be requested online 10 days from the print date. A copy of the recipient's signature will be faxed or mailed upon request by visiting the web site listed below or calling 1-800-222-1811.



Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the Track & Confirm page at usps.com

CERTIFIED MAIL RECEIPT
ANNIE 1
COAL OPERATOR, OWNER, LESSEE NOTIFICATION

Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. **DO NOT PHOTO COPY OR ALTER LABEL.**
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4. To mail your package with PC Postage®, you may schedule a Carrier Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

Online Label Record (Label 1 of 1)

Signature Confirmation™ Number:
9410 8036 9930 0027 0408 07

Paid Online

Transaction #:	219895561	Priority Mail® Postage:	\$5.34
Print Date:	01/11/2012	Signature Confirmation:	\$2.05
Ship Date:	01/12/2012	(Electronic Rate)	
Weight:	0 lb 6 oz	Total:	\$7.39

From: MIKE HALL
HALL DRILLING, LLC
PO BOX 249
ELLENBORO WV 26346-0249

Ref#: Annie1

To: ANNIE B. HAYMOND & EDDY LANDRUM
4884 MOUNTAIN DR
PENNSBORO WV 26415-6184

* Commercial Base Pricing Priority Mail rates apply. Signature Confirmation service electronic fee required. Delivery information is not available by phone for the electronic rate. Refunds for unused postage paid labels can be requested online 10 days from the print date. A copy of the recipient's signature will be faxed or mailed upon request by visiting the web site listed below or calling 1-800-222-1811.



Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the Track & Confirm page at usps.com



January 12, 2012

Hall Drilling, LLC
981 Washington Avenue
Ellenboro, West Virginia 26346
Office: 304-869-3404
Fax: 304-869-3410

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Ms. Laura Adkins
601 57th Street
Charleston, WV 25304

Ms. Laura Adkins:

Hall Drilling, LLC would like to submit the following application for a new well work permit to explore for Marcellus Shale potential. On a **new** well pad consists **one proposed vertical** shallow well (Annie 1) that we are requesting approval to drill.

Attached you will find the completed application and supporting documentation for the proposed well to be drilled for your review and approval.

Please be advised that we have shipped David Cowan the permit package so that he can review and sign off on our WW-2B's and WW-9's. Once he has signed the appropriate documents, Hall will be forwarding them to your office for final review and approval.

If you have any questions please feel free to contact me at (304) 869-3404.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mike Hall", is written over a faint, larger version of the signature.

Mike Hall
Manager
Hall Drilling, LLC

Enclosures

RECEIVED
OFFICE OF OIL AND GAS
JAN 16 2012
M. D. [unclear]
[unclear]