



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Thursday, July 12, 2018
WELL WORK PERMIT
Vertical / Plugging

HILDRETH, ROY G & SON INC
P.O. BOX 1007
SPENCER, WV 25276

Re: Permit approval for 2
47-015-01758-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: MARY D. HANSHAW 2
Farm Name: HANSHAW, MARY D.
U.S. WELL NUMBER: 47-015-01758-00-00
Vertical Plugging
Date Issued: 7/12/2018

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep ____/ ShallowX

5) Location: Elevation 800 Watershed Sandy
District Henry County Clay Quadrangle Otter

6) Well Operator Roy G. Hildreth & Son, Inc. 7) Designated Agent Roy G. Hildreth
Address P.O. Box 1007 Address P.O. Box 1007
Spencer, WV 25276 Spencer, WV 25276

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Jeremy James Name _____
Address P.O. Box 36 Address _____
Clendenin, WV25045

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached

See Prog

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *[Signature]* Date 7-12-18

Well Plugging Procedures for
Mary D. Hanshaw #2
API #047-15-1758

1. Run in hole and measure TD. Trip in hole w 1 1/2" tubing, circulate H2O & Gel to void 4 1/2" casing of oil
2. Set bottom 100' cement plug - trip 1 1/2" tubing out of hole.
3. Shoot 4 1/2" casing at Salt Sand - pull if possible.
4. If unable to pull 4 1/2" at Salt Sand, shoot 4 1/2" at elevation, pull a few joints and set 100' cement plug across Salt Sand casing cut and at elevation casing cut.
5. Pull 4 1/2" casing and set 100' to 120' cement plug to surface.
6. 6% gel spacers between all plugs.
7. Rough grade for Dollar General project.
7. Set monument, move off.

*Dehydrate!
Spacer if
unable to pull.*

*Pull all free pipe
TU*

10" / 8 5/8" / 4 1/2"

*August 14th
7-12-18*

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary _____ Oil X
Cable X Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle HT 2
Permit No. 015-1758

Company <u>Ray G. Hildreth</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address _____				
Farm <u>Mary HANshaw</u> Acres <u>1.34</u>				
Location (waters) <u>SANDY</u>				
Well No. <u>2</u> Elev <u>800</u>	Size			
District <u>HENRY</u> County <u>CLAY</u>	20-16			
The surface of tract is owned in fee by _____	Cond.			
	13-10"	<u>30</u>		
	9 5/8			
Address _____	8 5/8	<u>500</u>		
Mineral rights are owned by _____	7			
Address _____	5 1/2			
Drilling Commenced <u>July 1 - 1933</u>	4 1/2			
Drilling Completed <u>Aug 4 - 1933</u>	3			
Initial open flow _____ cu. ft. _____ bbls.	2			
Final production _____ cu. ft. per day _____ bbls.	Liners Used			
Well open _____ hrs. before test _____ RP.				
Well treatment details: _____				

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water 14 80 Feet _____
Producing Sand Sandy 1777 Depth 1792

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
SAND & Lime			20	450		
Lime shells & SLATE			450	1150		
SAND slate			1150	1220		
SAND SLATE			1220	1450		
MAXON SAND			1450	1468		
SLATE			1468	1500		
Little Lime			1500	1560		
SLATE			1560	1605		
Big lime			1605	1615		
IN TAN			1615	1745		
SLATE			1745	1760		
SQUAW			1760	1777		
			1777 (over)	1792		

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OIL & GAS DIVISION
DEPT. OF MINES
Office of Oil and Gas

JUL 12 2018

Oil WV Department of
Environmental Protection
1703

Indicates Electric Log tops in the remarks section.

TD=1830

TREATMENT REPORT

PRINTED IN U.S.A.

WELL NAME AND NUMBER

DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

LOCATION

015-1758

DATE 10-20-63

WELL TREATMENT

WELL NO. 2

Waback

Waback

1-10-5904

Waback

Waback Sand

TUBING TO COIL DOWN

Clay

U. Va.

ANNULUS

TYPE OF SERVICE
Click Water - 33,000 gal

OIL

CUST. NAME Waback

AGE OF WELL

ADDRESS c/o Paul Brown, Inc.

NEW WELL

CITY AND STATE Sponsor, U. Va.

CASING SIZE

REMARKS: 100 J-100

CASING DEPTH

20 Dot

TUBING SIZE

20 Fra C

TUBING DEPTH

FOR CONVERSION PURPOSES 24 BBLs EQUALS 1000 GALLONS

PERFORATED INTERVALS

ARRIVED ON LOCATION: 0315

TIME	INJECTION		PRESSURE	LIQUID (A)	SERVICE	(C) PROPPING AGENT OR (D) PLUGGING SERVICE			
	RATE	BBLs IN				FLA. CONC.	TYPE	SIZE	CONC.
1035	-	0	0	X F W	Hooked up				
1037	-	13	400	"	Lead				
1039	-	19	0	"	Test conn.	J-100	2.05		
1041	-	23	0	"	Flow				
1043	-	27	0	"	Pump into flow				
1103	0.0	0	1500	S L W	Frac	J-100	2.05	8	20-40
1109	31.0	31	1500	"	"	"	"	"	1.0
1110	32.0	63	1500	"	"	"	"	"	1.25
1112	32.0	127	1500	"	"	"	"	"	1.5
1114	33.0	193	1500	"	"	"	"	"	1.5
1116	33.0	259	1500	"	"	"	"	"	1.75
1118	32.0	323	1500	"	"	"	"	"	1.25
1120	32.0	387	1600	"	"	"	"	"	1.25
1124	32.0	515	1600	"	"	"	"	"	1.5
1128	31.0	643	1600	"	"	"	"	"	1.5
1130	30.0	703	1700	"	Flush	"	"	"	
1132	30.0	763	1900	"	Job complete	"	"	"	

TIME LEFT LOCATION	AVER. LIQUID INJ. RATE	AV. PRESSURE	PROPS AND LIQUIDS INJECTED
1215	30.2	31.9	Click Water carry sand
1900	1563	1850	20-40 33000 lb

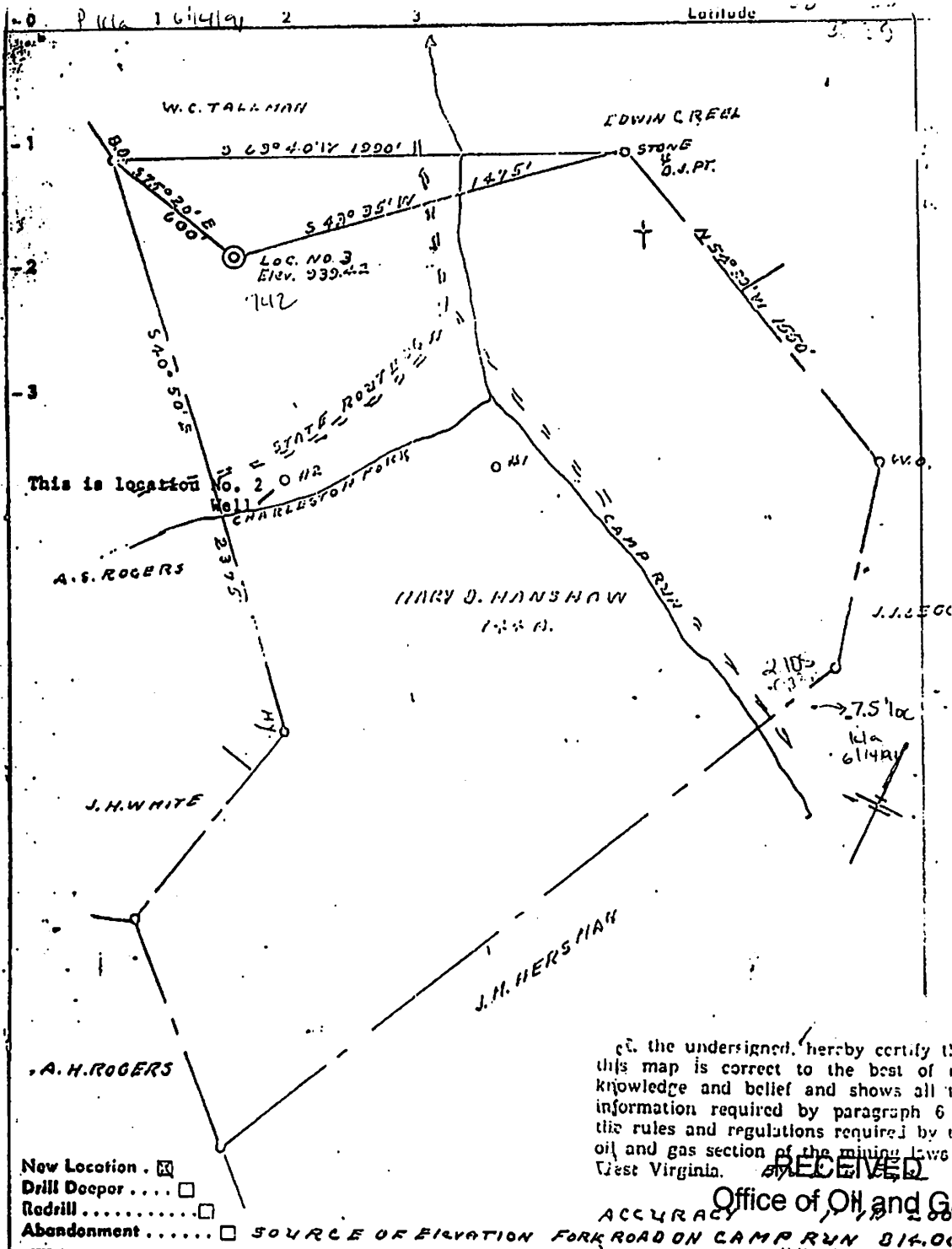
TIME LEFT LOCATION	AV. LIQUID INJ. RATE	AV. PRESSURE	PROPS AND LIQUIDS INJECTED
0300	30.2	31.9	Click Water carry sand
1900	1563	1850	20-40 33000 lb

WELL TREATMENT RECEIVED

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WV Department of Environmental Protection



New Location
 Drill Deeper
 Redrill
 Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all information required by paragraph 6 of the rules and regulations required by the oil and gas section of the mining laws of West Virginia.

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Company HANSHAW OIL & GAS CO.
 Address SPENSER, W. VA.
 Farm MARY D. HANSHAW
 Tract _____ Acres 14.5 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 939.42
 Quadrangle OTTER Newton 75'
 County CLAY District HENRY
 Engineer G. J. Dyer
 Engineer's Registration No. 304
 File No. _____ Drawing No. _____
 Date 7-8-63 Scale 1" = 500'

ACCURACY _____
 JUL 12 2018

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON, W. VA.

WV Department of Environmental Protection
 WELL LOCATION MAP
 FILE NO. CLA-1758

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Roy G. Hildreth & Son, Inc. OP Code 307660

Watershed (HUC 10) Sandy Quadrangle Otter

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: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

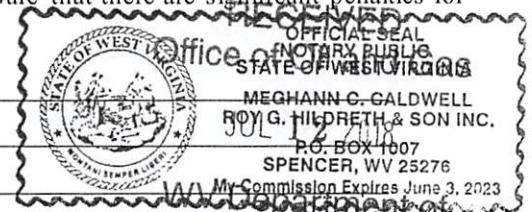
-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 Jon E. Wilder
Company Official (Typed Name) Jon Hildreth
Company Official Title Secretary



Subscribed and sworn before me this 11th day of July, 2018

Meghann C. Caldwell Notary Public

My commission expires June 3, 2023

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer type _____

Fertilizer amount _____ lbs/acre

Mulch _____ Tons/acre

* Rough grade to be left for new surface owner development project.

Seed Mixtures

Temporary

Permanent

Seed Type

lbs/acre

Seed Type

lbs/acre

Seed Type	lbs/acre	Seed Type	lbs/acre
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Building Dollar Store well to be plug will not be reclaimed as per construction

Title: Inspector M & G

Date: 7-12-18

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Field Reviewed? Yes No

1) Date: _____
2) Operator's Well Number
Mary D. Hanshaw #2
3) API Well No.: 47 - 15 - 1758

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:

(a) Name Dennis Sutton
Address P.O. Box 64
Wallback, WV 25285

(b) Name _____
Address _____

(c) Name _____
Address _____

5) (a) Coal Operator

Name _____
Address _____

(b) Coal Owner(s) with Declaration

Name _____
Address _____

(c) Coal Lessee with Declaration

Name _____
Address _____

6) Inspector Jeremy James
Address P.O. Box 36
Clendenin, WV 25045
Telephone 304-951-2596

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

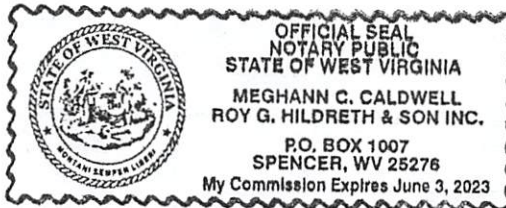
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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



Well Operator Roy G. Hildreth & Son, Inc.
By: Jon Hildreth
Its: Secretary
Address P.O. Box 1007
Spencer, WV 25276
Telephone 304-927-2130

Subscribed and sworn before me this 11th day of July, 2018
Meghann C. Caldwell Notary Public
My Commission Expires June 3rd, 2023

Oil and Gas Privacy Notice

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

SURFACE OWNER WAIVER

Operator's Well
Number

Mary D. Hanshaw #2

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

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

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

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

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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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
ETC.

FOR EXECUTION BY A CORPORATION,

Dennis C. Sutton
Signature
Dennis Sutton

Date 7-12-18

Name
By
Its

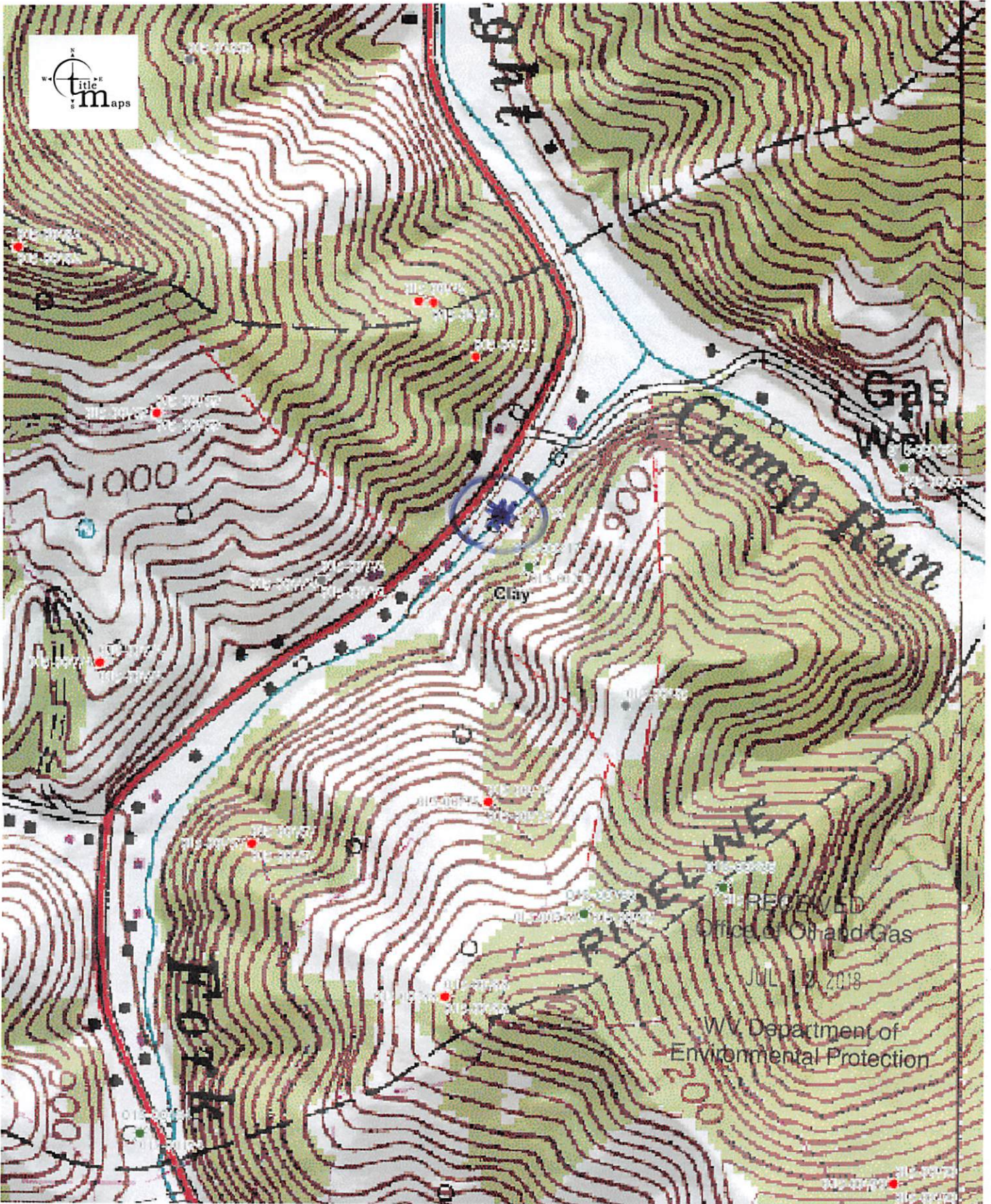
Dennis C. Sutton
Date

Signature

Date

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WV Department of
Environmental Protection

Mary Hanshaw #2



500ft

Approximate Scale 1:6,000

07/11/2018 - 03:24:33 PM

Disclaimer: The map information shown is from various sources including but not limited to tax maps and state and federal agency web sites. The map information does not represent and should not be relied upon as a land survey or legal depiction of the property or information shown. Title Maps LLC does not warrant the accuracy or correctness of the map information shown hereon.



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-15-1758 WELL NO.: Mary D. Hanshaw #2

FARM NAME: Mary D. Hanshaw

RESPONSIBLE PARTY NAME: Roy G. Hildreth & Son, Inc.

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Otter

SURFACE OWNER: Dennis Sutton

ROYALTY OWNER: Shirley Escue et. al.

UTM GPS NORTHING: 4266964.5

UTM GPS EASTING: 488576.43 GPS ELEVATION: 800

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

John R. Wilkins
Signature

Secretary
Title

7/11/18
Date

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WV Department of
Environmental Protection

API No. 47-15-1758
Farm Name Mary D. Hanshaw
Well No. Mary D. Hanshaw #2

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

*No known operator, owner,
or lessee of workable
coal bed/ seam on this tract.*
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