



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

June 11, 2013

WELL WORK PERMIT

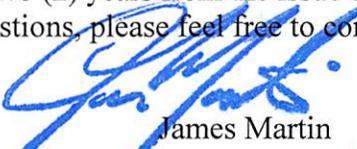
Vertical Well

This permit, API Well Number: 47-3503015, issued to HILDRETH, ROY G., JR. & SON, 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: C.S. MCCARTY #22
Farm Name: VALENTINE, BURL H. & KATHLI
API Well Number: 47-3503015
Permit Type: Vertical Well
Date Issued: 06/11/2013

Promoting a healthy environment.

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

1) Well Operator: ROY G. HILDRETH AND SON, INC. 307492 JACKSON RAVENSWOOD LIVERPOOL
Operator ID County District Quadrangle

2) Operator's Well Number: C. S. MCCARTY #22 3) Elevation: 1000'

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

5) Proposed Target Formation(s): BEREA Proposed Target Depth: 2665'

6) Proposed Total Depth: 2850' Feet Formation at Proposed Total Depth: BEREA

7) Approximate fresh water strata depths: 100', PITTSBURG 740 - 880'

8) Approximate salt water depths: SALT SAND 2080 - 2180'

9) Approximate coal seam depths: NONE REPORTED

10) Approximate void depths, (coal, Karst, other): NONE KNOWN

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

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
DRILL NEW BEREA WELL AND STIMULATE WITH X-LINK/SAND OR FOAM/SAND

Sample 5/11/2013

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft			
Conductor	11 3/4	LS	42#	30'	PULLED	
Fresh Water	8 5/8	LS	28#	985'	985'	CTS + 30% EXCESS
Coal						
Intermediate						
Production	4 1/2		11.6 LBS	2800'	2800'	201 CU FT (ABOVE SALT SAND)
Tubing						
Liners						

OK

Received
Office of Oil & Gas

MAY 16 2013

Packers: Kind: _____
 Sizes: _____
 Depths Set _____

3503015

WW-2A
(Rev. 6-07)

1.) Date: APRIL 24, 2013
2.) Operator's Well Number C. S. MCCARTY #22
State County Permit
3.) API Well No.: 47- 035 -

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

Check # 31592
\$1,950.00

4) Surface Owner(s) to be served:
(a) Name Valentine Family Trust
Address Kathryn Sue Moore Trustee
2139 Dutch Ridge Road
Address Parkersburg, WV 26104
(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 JAMIE STEVENS
Address HC 62 - BOX 1C
KENNA, WV 25248
Telephone 304-206-7775

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

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

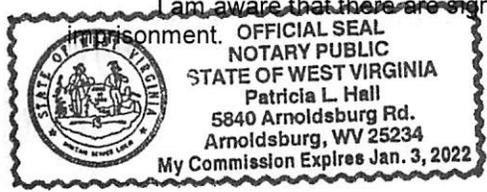
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- Personal Service (Affidavit attached)
- 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 ROY G. HILDRETH AND SON, INC.
By: Jon R. Hildreth
Its: JON R. HILDRETH, SECRETARY
Address P. O. BOX 1007
SPENCER, WV 25276
Telephone 304-927-2130

Received
Office of Oil & Gas
MAY 16 2013

Subscribed and sworn before me this 24TH day of APRIL, 2013

Patricia L. Hall Notary Public

My Commission Expires January 3, 2022
Oil and Gas Privacy Notice

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

3503015

WW-2A1
(Rev. 1/11)

Operator's Well Number C. S. MCCARTY #22

**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
East West Resources Inc. Daniel and Richard Moore, d/b/a Summit Energy	Krakrow, Inc.	WI	247/903
		RI 1/8	B 18/99
Krakrow, Inc.	Roy G. Hildreth and Son, Inc.	Agreement Attached	

**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 & Gas

MAY 16 2013

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: Jon R. Hildreth

 JON R. HILDRETH, SECRETARY

ROY G. HILDRETH AND SON, INC.

AGREEMENT

THIS AGREEMENT made this 1st day of June, 2007, by and between Krakrow, Inc., a West Virginia Corporation, as Lessor and Roy G. Hildreth & Son, Inc., a West Virginia Corporation, as Lessee, in which the Krakrow, Inc. hereby states that they are giving Roy G. Hildreth & Son, Inc. right to drill and operate on their said C. S. McCarty Lease, 235 Acres, on the waters of Buck Run, Ravenswood District, Jackson County, West Virginia.

WITNESS the following signatures and seals:

Krakrow, Inc.

By: [Signature]
Jon R. Hildreth, President

Roy G. Hildreth and Son, Inc.

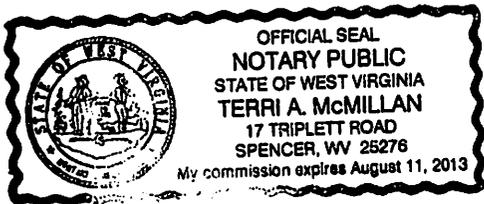
By: [Signature]
Roy G. Hildreth, President

STATE OF WEST VIRGINIA,
COUNTY OF ROANE, to-wit:

I, TERRI A. McMILLAN, a notary public within and for said county and state aforesaid, do hereby certify that Jon R. Hildreth, whose name is signed to the foregoing writing, bearing the 1st day of June, 2007, on behalf of Krakrow, Inc, as its President has this day, in my said county, before me, acknowledged said writing.

Given under my hand this 1st day of June, 2007.

My commission expires: August 11, 2013



[Signature]
NOTARY PUBLIC

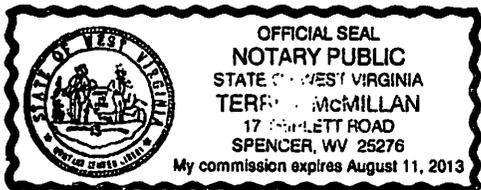
STATE OF WEST VIRGINIA,
COUNTY OF ROANE, to-wit:

I, TERRI A. McMILLAN, a notary public within and for said county and state aforesaid, do hereby certify that Roy G. Hildreth, whose name is signed to the foregoing writing, bearing the 1st day of June, 2007, on behalf of Roy G. Hildreth and Son, Inc., as its President has this day, in my said county, before me, acknowledged said writing to be the act and deed of said corporation.

Given under my hand this 1st day of June, 2007.

My commission expires: August 11, 2013

Received
Office of Oil & Gas



[Signature]
NOTARY PUBLIC

11-2007

3503015

WW-2B1
(5-12)

Well No. C. S. MCCARTY #22

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contractor chosen to collect sample.

Certified Laboratory Name REIC LABORATORY P. O. BOX 286, BEAVER, WV 25813
Sampling Contractor ROY G. HILDRETH AND SON, INC.

Well Operator ROY G. HILDRETH AND SON, INC.
Address P. O. BOX 1007
SPENCER, WV 25276
Telephone 304-927-2130

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

SEE ATTACHED

Closest
Water Well
1500' Testers
zero' JHS

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Office of Oil & Gas

MAY 16 2013

3503015

ATTACHMENT TO FORM WW-2B1

W-12 ABANDONED HOUSE - VALENTINE

DUG WELL

W-13 ABANDONED HOUSE - VALENTINE

CAN NOT LOCATE A WELL, UNSURE
IF ONE EXISTS

W-14 GEORGE CHANDLER HOUSE

APPEARS TO BE A DRILLED WELL

W-15 FRANCIS BROTHERS - HUNTING CAMP

DRILLED WELL

W-16 HOUSE ACROSS FROM FRANCIS BROTHERS - MARTIN

UNSURE OF WELL TYPE

W-17 GEORGE CHANDLER-OLD HOUSE SITE

DRILLED WELL

W-18 GEORGE CHANDLER-OLD HOUSE SITE

DUG WELL

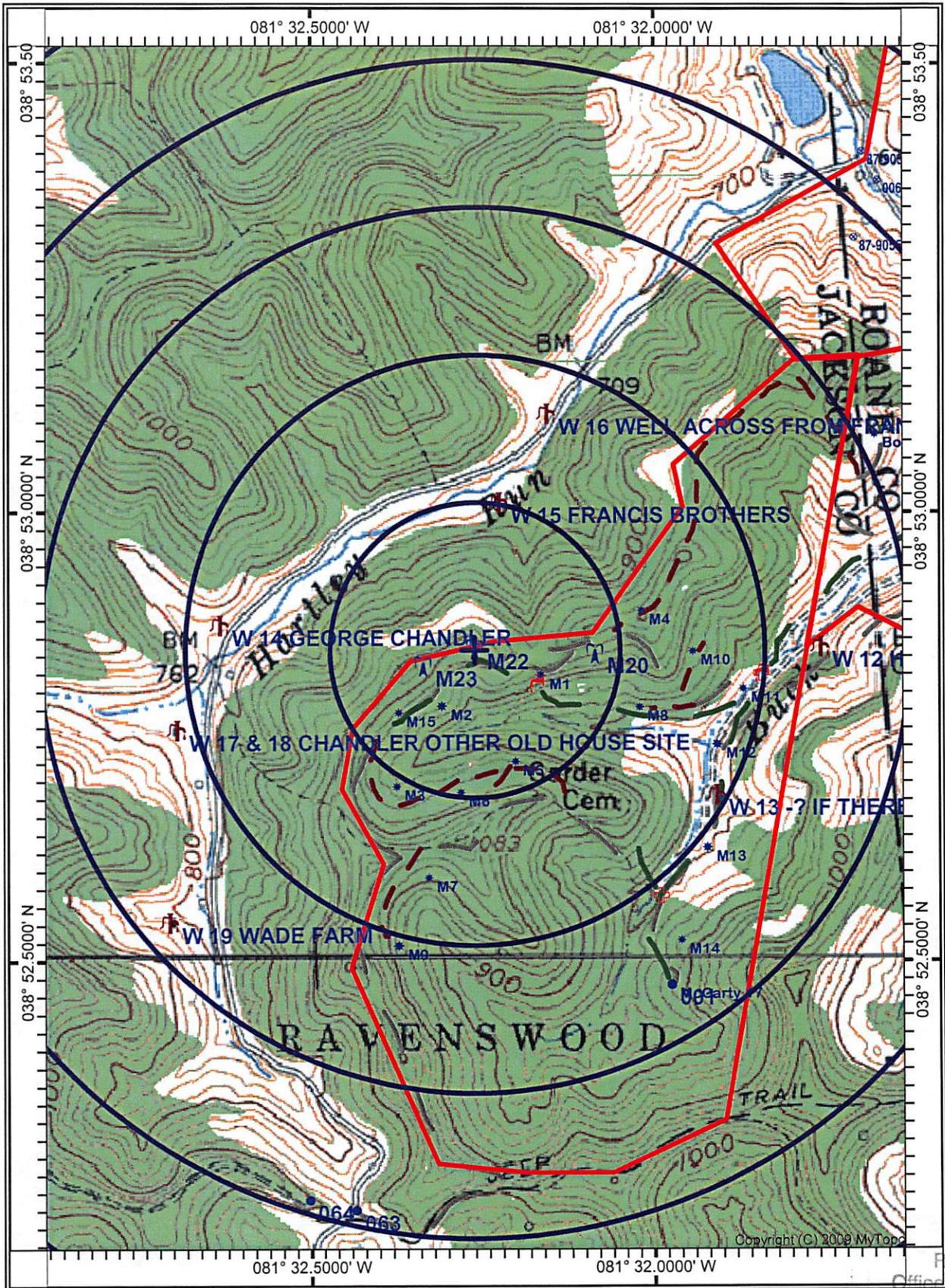
W-19 WADE FARM

DUG WELL

VALENTINE - SURFACE OWNER ON LEASE
GEORGE A. CHANDLER 273 CLARY ROAD, SPENCER, WV 25276
FRANCIS BROTHERS RT. BOX 5A, LEROY, WV 25252
CARL MARTIN 4701 HARTLEY RUN RD, LEROY, WV 25252
DARRELL WADE 68 HECK STREET, LEROY, WV 25252

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Office of Oil & Gas

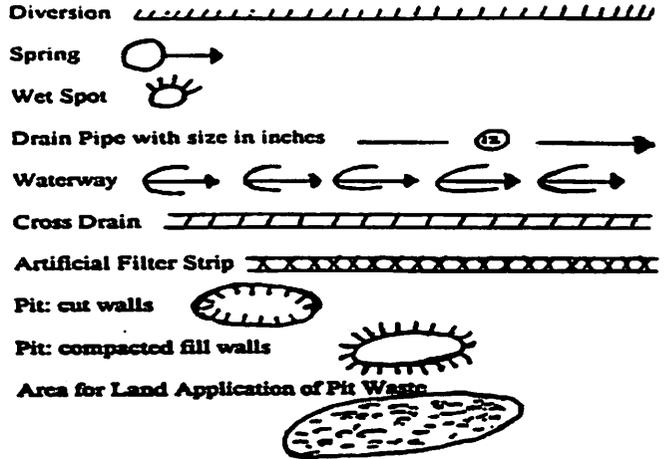
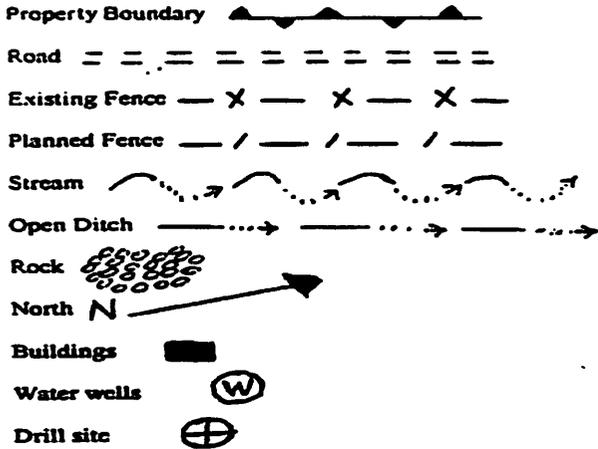
3503015



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LEGEND



Proposed Revegetation Treatment: Acres Disturbed 3 Prevegetation pH 5.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 0.25 lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
ORCHARD GRASS		25
RED TOP CLOVER		15
ANNUAL RHY		15

Seed Type	Area II	lbs/acre
LADINO CLOVER		5
KY 31		40
ANNUAL RHY		15

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

Photocopied section of involved 7.5' topographic sheet.

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Plan Approved by: *Jimmie Stevens*

Comments: _____

Title: _____ Date: 5/1/2013

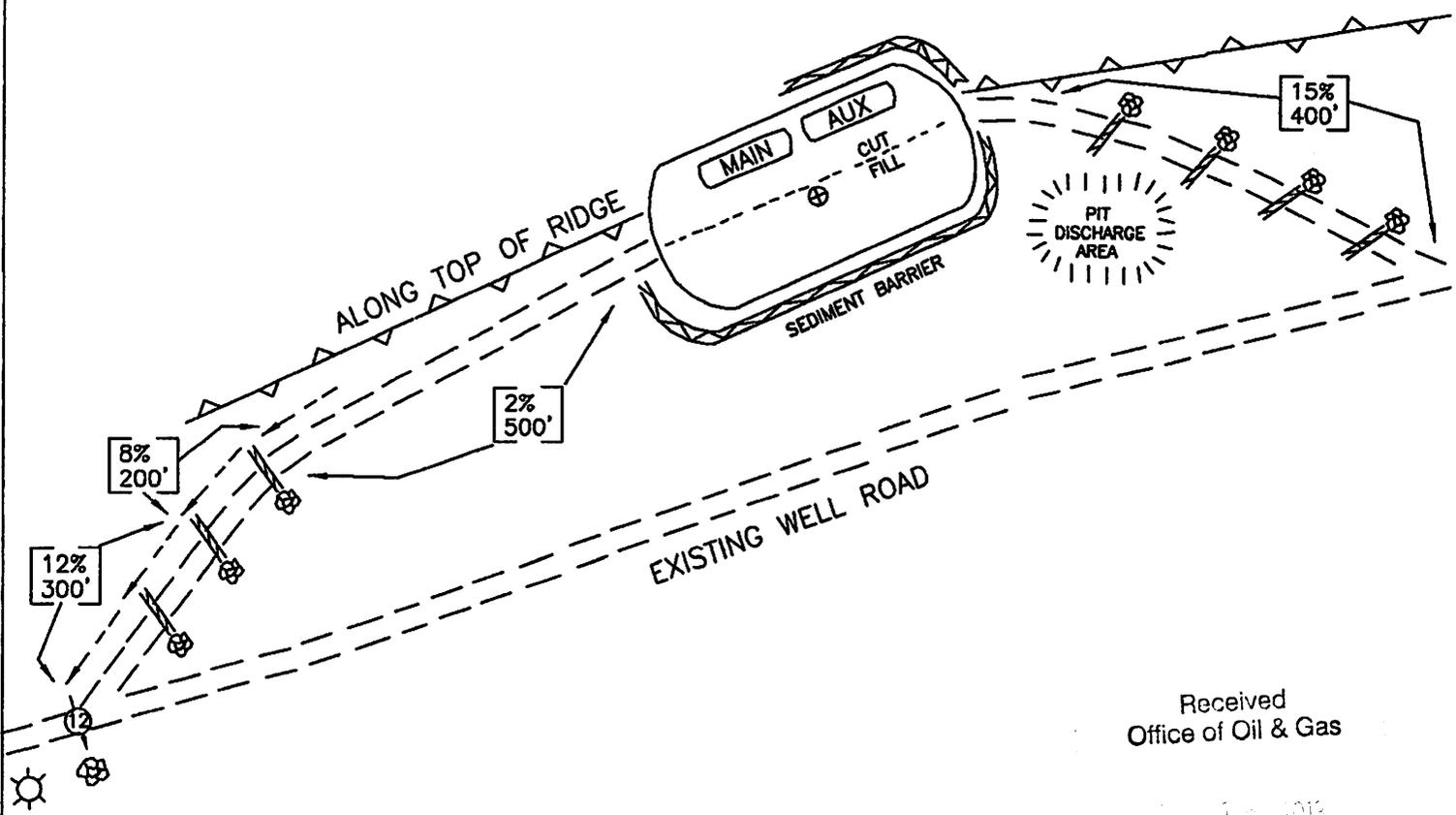
Field Reviewed? Yes No

NOTE;

Any Trees 6" or larger in Diameter will be cut and piled. Brush will be used as Sediment Barriers. Temporary seed and mulch all slopes upon construction. Stone over all Culverts.

McCARTY #22

PIT SIZE: 25'X80' +/-
LOCATION SIZE: 100'X200' +/-

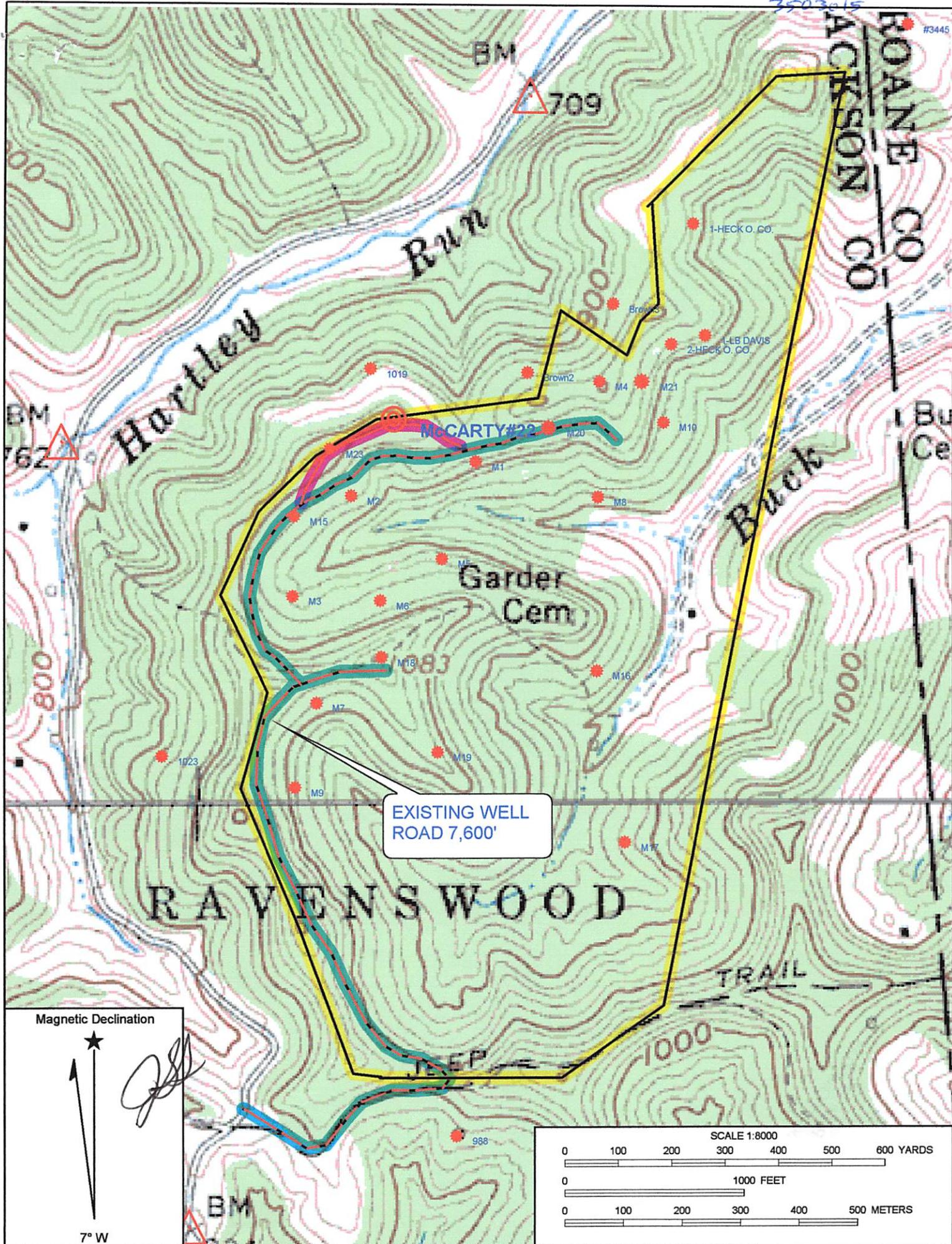


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May 10 2013

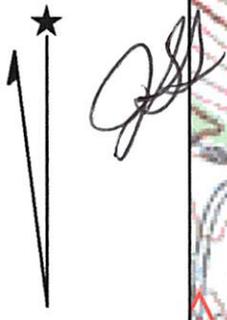
McCARTY #15

Jamie Stevens
5/1/2013



EXISTING WELL
ROAD 7,600'

Magnetic Declination



7° W

SCALE 1:8000

0 100 200 300 400 500 600 YARDS

0 1000 FEET

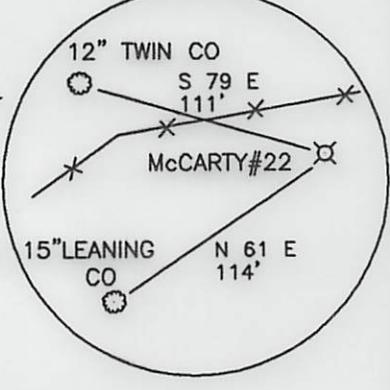
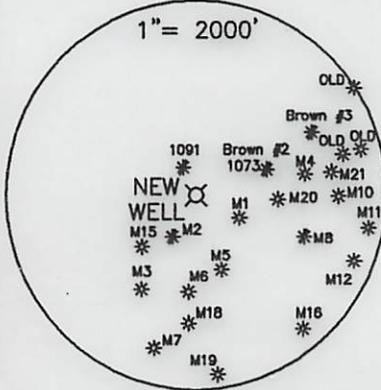
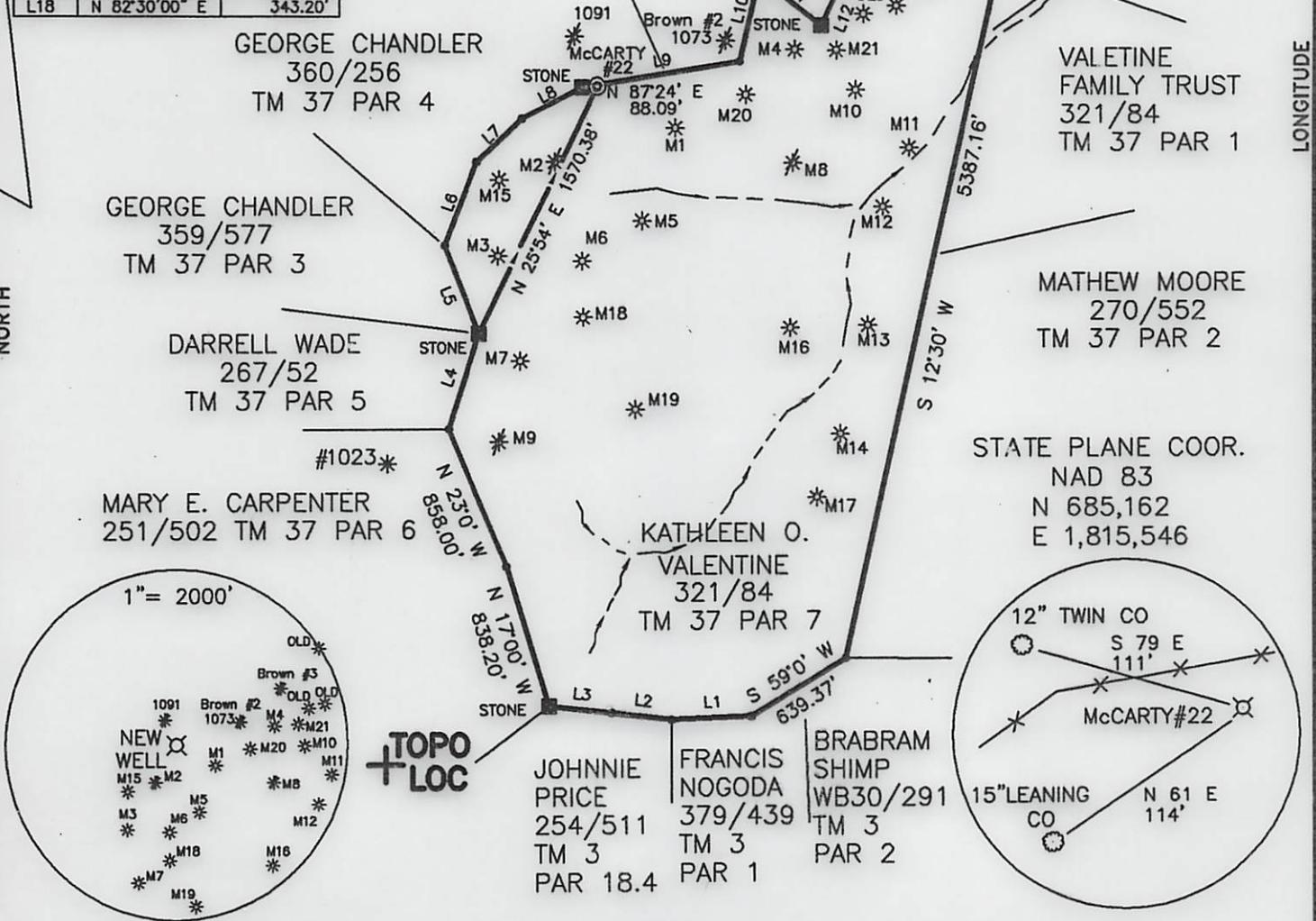
0 100 200 300 400 500 METERS

LINE	BEARING	DISTANCE
L1	S 88°00'00" W	464.76'
L2	N 83°45'00" W	348.56'
L3	N 84°00'00" W	369.19'
L4	N 18°00'00" E	570.90'
L5	N 26°00'00" W	534.60'
L6	N 21°00'00" E	511.50'
L7	N 48°00'00" E	346.50'
L8	N 61°00'00" E	399.30'
L9	N 81°00'00" E	999.90'
L10	N 13°00'00" E	495.00'
L11	S 53°00'00" E	464.08'
L12	N 26°30'00" E	174.90'
L13	N 47°00'00" E	143.05'
L14	NORTH	582.95'
L15	N 38°30'00" E	181.5'
L16	N 53°00'00" E	313.50'
L17	N 47°00'00" E	594.00'
L18	N 82°30'00" E	343.20'

LATITUDE 38°55'00"
 UTM COORD.
 NAD 83
 ZONE 17
 0453372E
 4303896N
 LONGITUDE 81°30'00"

NORTH

12,925'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. 13-12
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION 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 PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) _____
 R.P.E. _____ L.L.S. 851



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE 4/18, 2013
 OPERATOR'S WELL NO. McCARTY#22
 API WELL NO. 47-035-03015
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1000 WATER SHED BUCK RUN OF RIGHT FORK OF SANDY CREEK
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE LIVERPOOL

SURFACE OWNER BURL H. & KATHLEEN O. VALENTINE ACREAGE 235
 OIL & GAS ROYALTY OWNER KATHLEEN O. VALENTINE LEASE ACREAGE 235
 LEASE NO. _____

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION BEREA ESTIMATED DEPTH 2850
 WELL OPERATOR ROY G. HILDRETH & SON DESIGNATED AGENT ROY G. HILDRETH JR.
 ADDRESS PO BOX 1007 ADDRESS PO BOX 1007
 SPENCER, WV 25276 SPENCER, WV 25276

3503015

LINE	BEARING	DISTANCE
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LATITUDE 38°55'00"
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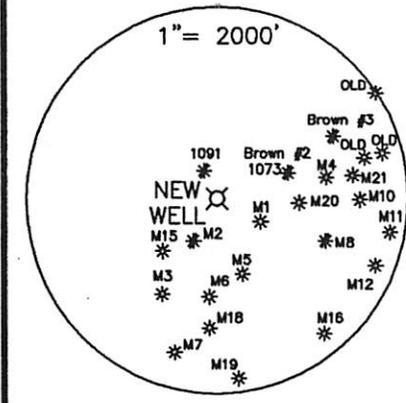
LONGITUDE 81°30'00"

NORTH

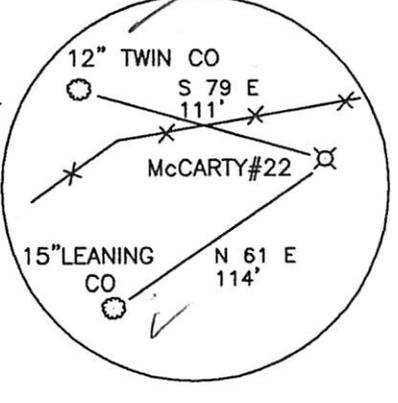
LONGITUDE

NORTH

LONGITUDE



TOPO LOC



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. 13-12
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
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 (SIGNED) _____
 R.P.E. _____ L.L.S. 851



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE 4/18, 2013
 OPERATOR'S WELL NO. McCARTY#22
 API WELL NO. 47 - 035 - 03015
 STATE COUNTY PERMIT

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

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 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE LIVERPOOL

SURFACE OWNER BURL H. & KATHLEEN O. VALENTINE ACREAGE 235
 OIL & GAS ROYALTY OWNER KATHLEEN O. VALENTINE LEASE ACREAGE 235
 LEASE NO. _____

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 STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY): _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BEREA ESTIMATED DEPTH 2850

WELL OPERATOR ROY G. HILDRETH & SON DESIGNATED AGENT ROY G. HILDRETH JR.
 ADDRESS PO BOX 1007 ADDRESS PO BOX 1007
 SPENCER, WV 25276 SPENCER, WV 25276