



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

July 03, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9100987, issued to ICG TYGART VALLEY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: J. SHARP 2
Farm Name: SHARP, JONATHAN & LINDA
API Well Number: 47-9100987
Permit Type: Plugging
Date Issued: 07/03/2013

Promoting a healthy environment.

1) Date June 14, 2013
2) Operator's Well No. J. Sharp #2
3) API Well No. 47-91 - 00887

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 ___ / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1559 Watershed Three Fork Creek
District Knottsville County Taylor Quadrangle Thornton (638)

6) Well Operator ICG Tygart Valley, LLC 7) Designated Agent Charles E. Duckworth
Address 2708 Cranberry Square Address 1200 Tygart Drive
Morgantown, WV 26508 Grafton, WV 26354

8) Oil and Gas Inspector to be notified Name Joe McCourt
Address P.O. Box 2657
Buckhannon, WV 26201
9) Plugging Contractor Name Coastal Drilling East, LLC
Address 130 Meadows Ridge Road
Mt. Morris, PA 15349

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

SEE EXHIBIT NO. 1 & NO. 2.

ALL CEMENT PLUGS MUST
BE AT LEAST 100' CLASS A CEMENT
WITH NO MORE THAN 3% CA CL₂ AND NO
OTHER ADDITIVES
MAY USE 6% GEL BETWEEN PLUGS

Received

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

JUN 26 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

Work order approved by inspector JAMcCourt

Date 6-26-13

EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, ICG Tygart Valley, LLC will utilize one of the following two methods to plug all future wells.

4 ½ VENT PIPE METHOD

- ~~a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below the lowest mineable coal seam.~~
- ~~b) If abandoned well: clean out to first plug 200 feet below lowest mineable coal seam.~~
- ~~c) Run 4 ½ casing from surface to a minimum of 200 feet below lowest mineable coal seam and circulate 50/50 poz mix cement followed by expanding cement to surface. The expanding cement shall extend from a minimum of 200 feet below mineable coal seam to a point 100 feet above.~~

~~The 4 ½ will remain open from surface to a minimum of 80 feet below that mineable coal seam.~~

SOLID PLUG METHOD

- a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest mineable coal seam.
- b) If abandoned well: clean out to first plug 200 feet below lowest mineable coal seam.
- c) Circulate through tubing or drill steel an expanding cement plug from a minimum of 200 feet below mineable coal seam to a point 100 feet above mineable coal.

Circulate through tubing or drill steel ~~50/50 poz~~ mix from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

Received
JUN 26 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

Cleanout/Plugging Plan

- Day 1 – Move to site, rig up, mix mud, drill rathole
- Day 2 – Finish drilling rathole, start picking up 2 3/8" drill pipe and cleanout well with a 3 3/4" bit to total depth (T.D)
- Day 3 – Continue to pick up 2 3/8" drill pipe and cleanout to T.D.
Trip out of the hole (T.O.H) with 2 3/8" drill pipe.
- Day 4 – Run cement bond log on 4 1/2" casing, (calculations reached from the cement information taken from the report indicate the estimated top of the cement on the outside of the 4 1/2" is 3,191'), perforate/cut 4 1/2" casing every 100' from 5,137' to 3,291'. Total shots needed 120.
- Day 5 – Trip in hole (T.I.H) with 2 3/8" drill pipe to T.D. Cement hole from 5,239' back to 3,191 with 160 sacks of Class A Cement with a gas blocker additive. Circulate hole, condition mud, T.O.H.
- Day 6 – T.I.H with 3 3/4" bit to tag top of cement plug. T.O.H, T.I.H with 4 1/2" pressure pipe cutter, cut 4 1/2" casing just above top of bonded casing at 3,185'. Lay down 2 3/8" drill pipe.
- Day 7 – Continue to lay down 2 3/8" drill pipe. Rig up 4 1/2" casing spear. Hook to 4 1/2" casing at the surface, release slips from wellhead and attempt work 4 1/2" casing free to 3,185'. Lay down 4 1/2" casing.
- Day 8 – Rig up 7 7/8" bit. Pick up drill collars and drill pipe, start cleaning hole to top of remaining 4 1/2" casing at 3,185'.
- Day 9 – Continue to clean hole with 7 7/8" bit to top of remaining 4 1/2" casing at 3,185'. Circulate hole. T.O.H with 7 7/8" bit. T.I.H with open ended 3 1/2" drill pipe.
- Day 10 – Cement hole from 3,191 to within 50' of bottom of 8 5/8" casing at 1,031 with 1000 gallons of mud flush and 500 sacks of Class A cement with 4% gel. Circulate hole and condition mud. T.O.H Log hole (Caliper, Natural Gamma, Directional and Bond logs). Calculations reached from the cement information taken from the report indicates that the 8 5/8" casing was cemented to surface.
- Day 11 – T.I.H with 8 5/8" pressure pipe cutter. Cut 8 5/8" casing every 100' from 891' to 381' (6 cuts total). T.O.H w/ 8 5/8" cutter. T.I.H with 8 5/8" section mill. Section mill 30' window in 8 5/8" casing through coal seam.
- Day 12 – Continue to section mill 8 5/8" casing through coal seam.
- Day 13 – Finish section milling 8 5/8" casing. T.O.H with 8 5/8" section mill. T.I.H with 7 7/8" bit.
- Day 14 – Clean hole with 7 7/8" bit to top of cement plug at 1,031'. Circulate hole at 1,031'. T.O.H with 7 7/8" bit. Run caliper log to verify window and cuts in 8 5/8" casing.

DRILLERS T.D
4554

Received

JUN 26 2013

Office of Oil and Gas
Dept. of Environmental Protection

COASTAL
 DRILLING - EAST

1/2

EXHIBIT No. 2 (cont)

Lay down drill collars and fishing tools. Prepare to cement hole to surface.

- Day 15 – Cement hole from 1,031' to surface using 180 sacks of Class A cement with 4% gel and 120 sacks of Thixotropic cement with green dye. Clean out mud tank. Rig down equipment and prepare to move rig to next site.

Received

JUN 26 2013

Department of Oil and Gas

DRILLING - EAST

2/2

WELL NAME: J. Sharp # 2
API NUMBER: P# 0987 - Taylor
AFE NUMBER: 96023

DATE: 8/28/96

ZONES STIMULATED
NO. OF STAGES 2

- 1) Benson
- 2) Riley
- _____
- _____
- _____

SURFACE CASING
8 7/8" @ 1107 FT.
275 SKS. CEMENT

SURFACE

PERFORATIONS:

<u>16</u> HOLES FROM	<u>4387</u> TO	<u>4389</u>
<u>20</u>	<u>4150</u>	<u>4172</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

PRODUCTION CSG

2614 FT. CEMENT TOP

POTENTIAL-ZONES

PACKER INFORMATION:
TYPE _____
DEPTH _____ FT.

TBG. SIZE _____ IN.
@ _____ FT.

CASED HOLE TD 4444 FT.
LOGGERS TD 4559 FT.
DRILLERS TD 4554 FT.

PRODUCTION CASING
4 1/2" CSG @ 4501 FT.
310 SKS. CEMENT
94 BBL SLURRY

Received

JUN 26 2013

9100987P

WR-35

18-Dec-95
API # 47- 91-00987

RECEIVED
WV Division of
Environmental Protection

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

FEB 16 1996

Well Operator's Report of Well Work

Farm Name: SHARP, JONATHAN & LINDA Operator Well No.: J. SHARP #2
Permitting Office of Oil & Gas

LOCATION: Elevation: 1,559.00 Quadrangle: THORNTON

District: KNOTTSVILLE County: TAYLOR
Latitude: 5300 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 7425 Feet West of 79 Deg. 57 Min. 30 Sec.

Company: PETROLEUM DEVELOPMENT COR
103 E. MAIN ST. - P.O. BOX 26
BRIDGEPORT, WV 26330-0026

Agent: ERIC STEARNS

Inspector: PHILLIP TRACY
Permit Issued: 12/22/95
Well work Commenced: 01/21/96
Well work Completed: 02/25/96
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 4554
Fresh water depths (ft) _____

55
Salt water depths (ft) _____
n/a

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 25-27

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	31'	31'	
8 5/8"	1097'	1097'	275 sks
4 1/2"	4491'	4491'	310 sks

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4387-4389
Gas: Initial open flow 15 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 335 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1050 psig (surface pressure) after 72 Hours

Second producing formation Riley Pay zone depth (ft) 4150-4172
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow co-mingled MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Eric Stearns

For: PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns
Date: February 13, 1996

TAY 0927

J. SHARP #2

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1st	Benson	16 (4387' - 4389')	50	400	500	55
2nd	Riley	20 (4150' - 4172')	50	400	500	55

W E L L L O G

FORMATION

TOP FEET BOTTOM FEET

REMARKS: FRESH & SALT WATER, COAL, OIL & GAS

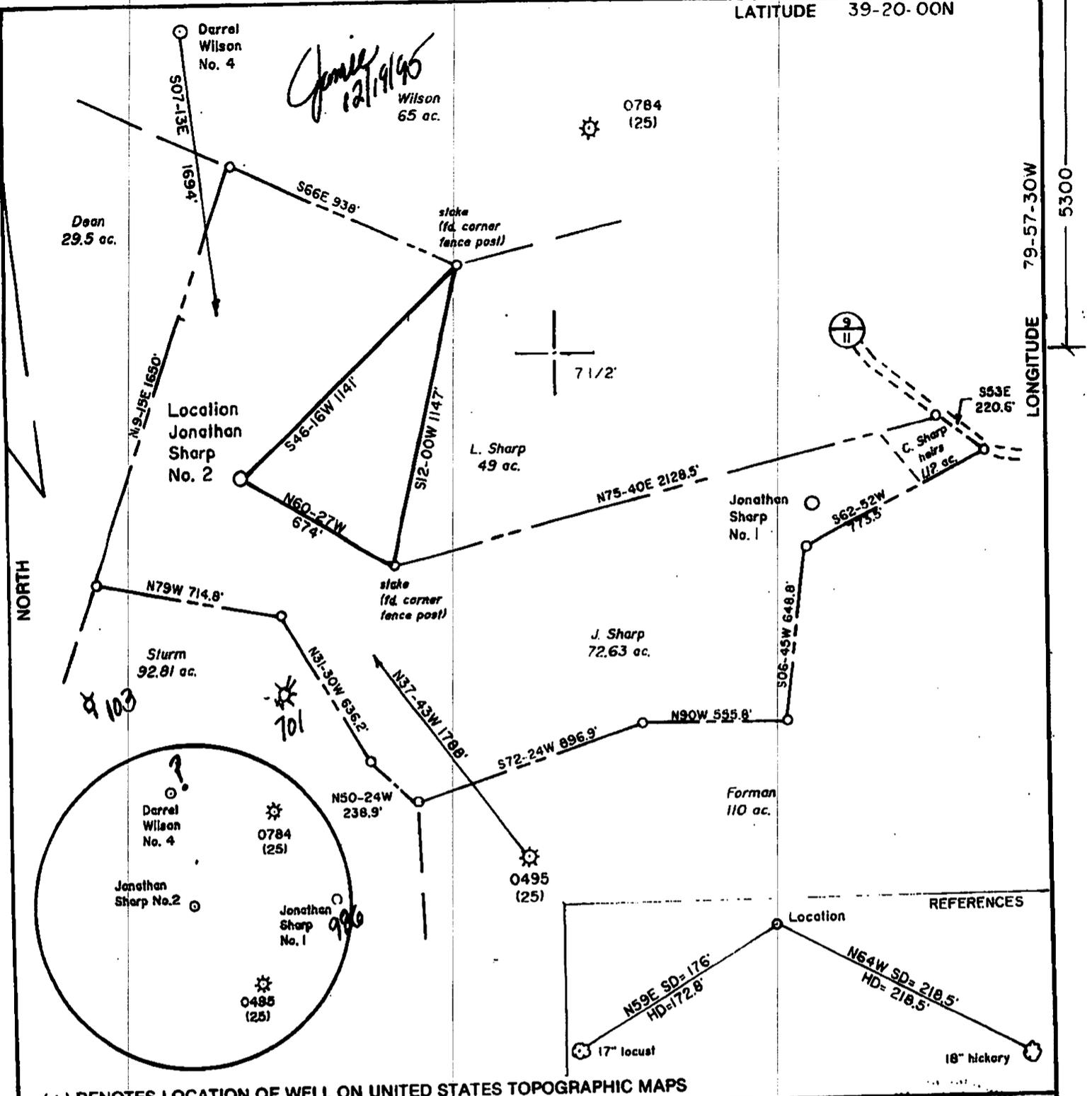
KB - GL	0	10	
sand, shale, RR	10	1391	
Little Lime	1391	1403	1/2" stream H2O @ 55'
sand, shale	1403	1420	Coal 25' - 27'
Big Lime	1420	1507	
sand, shale	1507	1511	
Keener	1511	1545	
sand, shale	1545	1554	
Big Injun	1554	1616	gas chk @ 1565' no show
sand, shale	1616	1721	
Weir	1721	1762	
sand, shale	1762	1874	gas chk @ 1689' no show
Gantz	1874	1920	
sand, shale	1920	1936	gas chk @ 1929' no show
50 ft	1936	1997	
sand, shale	1997	2010	
30 ft	2010	2060	gas chk @ 2118' no show
sand, shale	2060	2305	gas chk @ 2270' no show
4th	2305	2476	
sand, shale	2476	2490	
5th	2490	2532	gas chk @ 2483' no show
sand, shale	2532	2544	gas chk @ 2647' no show
Bayard	2544	2564	
sand, shale	2564	2680	gas chk @ 3277' no show
Elizabeth	2680	2770	gas chk @ 3464' no show
sand, shale	2770	2883	gas chk @ 3806' no show
Speechly	2883	3240	gas chk @ 4243' 2/10 thru 1" w/water
sand, shale	3240	3250	
Balltown	3250	3640	
sand, shale	3640	3668	
Bradford	3668	3780	
sand, shale	3780	4066	gas chk @ 4429' 12/10 thru 1" w/water
Riley	4066	4337	
sand, shale	4337	4387	gas chk @ TD 4/10 thru 1" w/water
Benson	4387	4434	gas chk @ Collars 2/10 thru 1" w/wate
sand, shale	4208	4554	Drillers TD
		4559	Logger TD

9100987A

7425

LATITUDE 39-20-00N

LONGITUDE 79-57-30W



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Road junction 2800'
East of Location; elev. 1598

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) David L. Jackson

R.P.E. _____ L.L.S. 708

PLACE SEAL HERE

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



DATE November 28, 19 95
 OPERATOR'S WELL NO. Jonathan Sharp
 API WELL NO. No. 2

47 091 00987
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1559 WATERSHED Three Fork Creek
 DISTRICT Knottsville COUNTY Taylor

QUADRANGLE Thornton 7 1/2' ACREAGE 72.63

SURFACE OWNER Jonathan E. Sharp et al LEASE ACREAGE 73
 OIL & GAS ROYALTY OWNER Jonathan E. Sharp et al

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Benson ESTIMATED DEPTH 5000'
 WELL OPERATOR Petroleum Development Corp DESIGNATED AGENT Eric R. Stearns
 ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

FORM WW-6

COUNTY NAME

PERMIT 1937

91009679

WW-4A
Revised 6-07

1) Date: June 14, 2013
2) Operator's Well Number
J. Sharp #2
3) API Well No.: 47 - 91 - 00987

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:	5) (a) Coal Operator
(a) Name <u>Jonathan E. & Linda J. Sharp</u>	Name <u>CoalQuest Development, LLC</u>
Address <u>RR 1, Box 482</u>	Address <u>2708 Cranberry Square</u>
<u>Grafton, West Virginia 26354</u>	<u>Morgantown, West Virginia 26508</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name _____
Telephone _____	Address _____

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.

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 Form WW-6. Copies of 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 ICG Tygart Valley, LLC

By: Charles E. Duckworth

Its: Designated Agent

Address 2708 Cranberry Square

Morgantown, West Virginia 26508

Telephone (304) 594-1616

Received
JUN 26 2013

Subscribed and sworn before me this 21 day of June 2013
Thomas Gregory
My Commission Expires December 22, 2019



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.

WW-4B

9100987A

API No.	<u>47-91-00986</u>
Farm Name	<u>Jonathan and Linda Sharp</u>
Well No.	<u>J. Sharp #2</u>

**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 X / 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: June 17, 2013

Coal Quest Development LLC
 By: [Signature]
 Its: Don S. Ploetz
Secretary



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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name ICG Tygart Valley, LLC OP Code _____

Watershed Three Fork Creek Quadrangle Thornton (638) 638

Elevation 1559 County Taylor 91 District Knottsville 06

Description of anticipated Pit Waste: N/A

Will a synthetic liner be used in the pit? N/A

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 Tanks - See attached letter)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 [Signature]

Company Official (Typed Name) Charles E. Duckworth

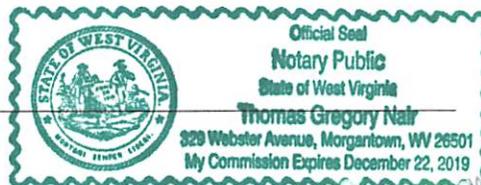
Company Official Title Designated Agent

Subscribed and sworn before me this 21 day of June, 2013

[Signature]

Notary Public

My commission expires December 22, 2019



Received

JUN 26 2013

Office of Oil and Gas
Dept. of Environmental Protection

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH _____
 Lime 3 Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch Hay Bales Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	12	Orchard Grass	12
Landino Clover	3	Landino Clover	3
Timothy	10	Timothy	10

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: JAM Count

Comments: _____

Title: Inspector Date: 6-26-13

Field Reviewed? () Yes () No

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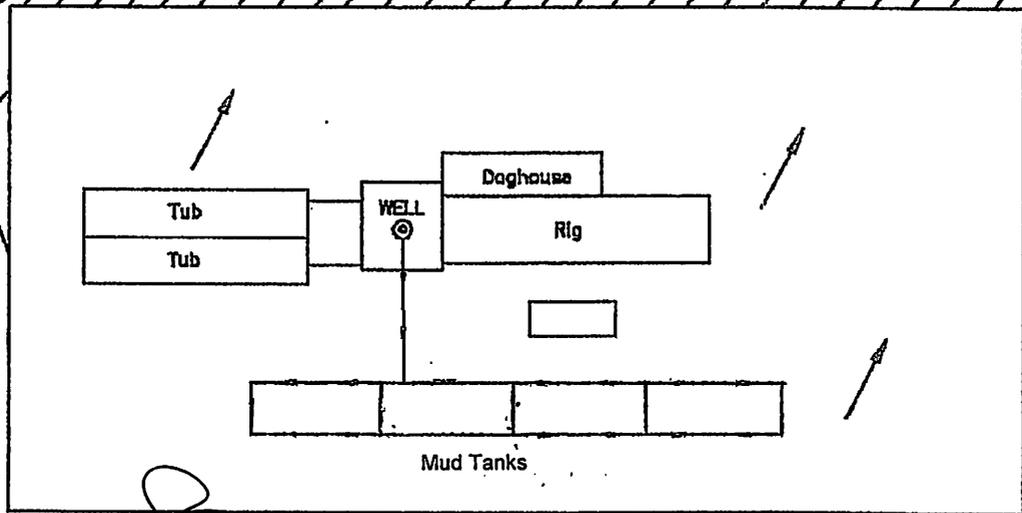
ICG TYGART VALLEY, LLC

Diversion Ditch (as Needed)

Typical Drawing
Of Well Plugging Site Plan

CUT

Cut Mulched if Slope
Less than 1 to 1



Sediment
Catch Basin

Sediment
Catch Basin

Mud Tanks

Compacted and Layed

FILL

Original Ground Keywayed

Hay Bales
or
Sediment Fence

J.M. Cant
6-26-13

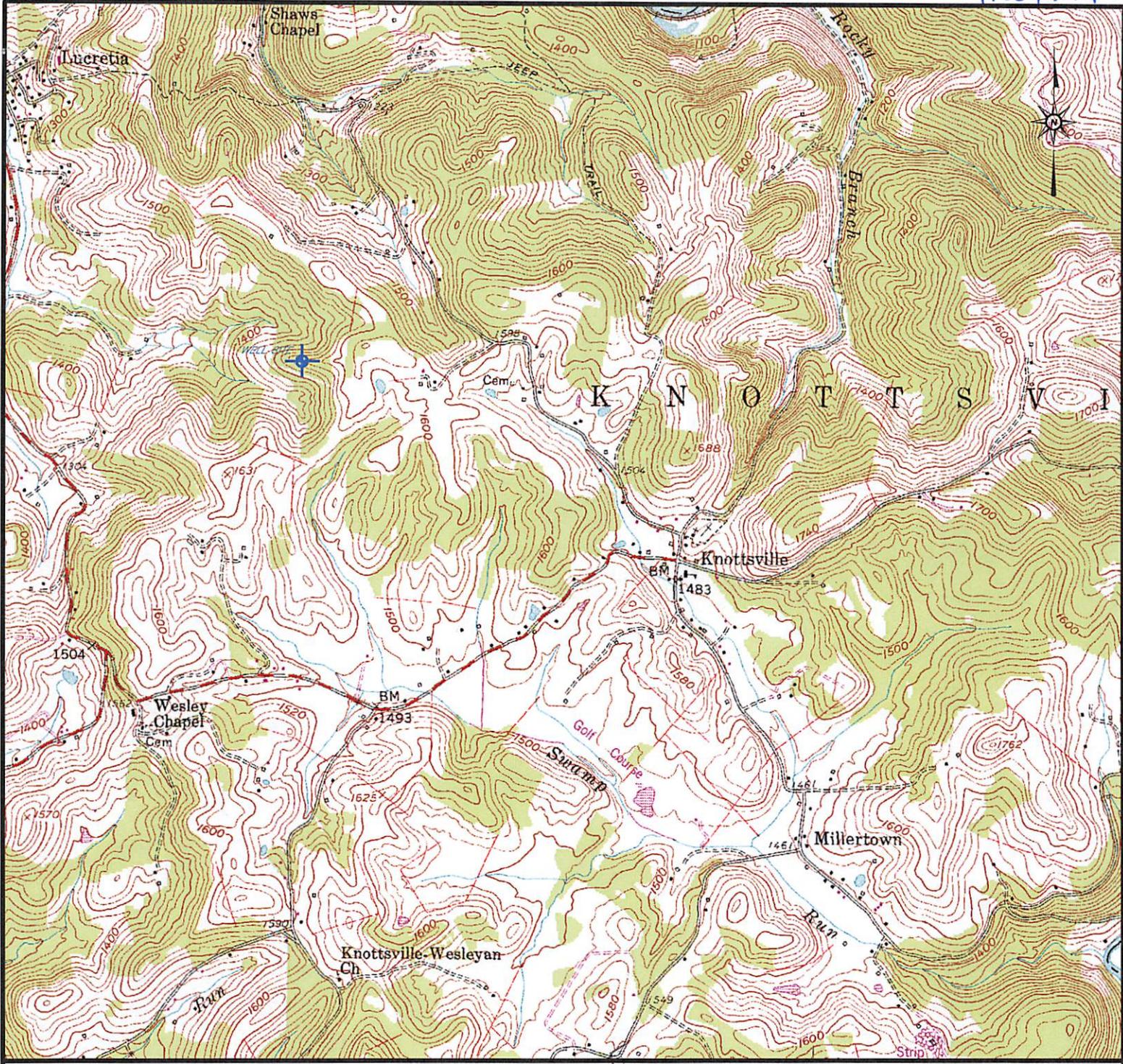
Received

JUN 26 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

9100987A

9100987 F



*AM (Cowan)
6-26-13*

LATITUDE: 39-19-07 N
 LONGITUDE: 79-59-05 W
 NEAREST WATERCOURSE: 500' North of unnamed branch of Three Fork Creek
 NEAREST TOWN: 5000' northwest to Lucretia

OPERATOR'S WELL NO. Jonathan Sharp
 API WELL NO. No. 2
47 - 091 - 0987
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1559 WATERSHED Three Fork Creek
 DISTRICT Knottsville COUNTY Taylor
 QUADRANGLE Thornton 7 1/2'
 SURFACE OWNER: Jonathan E. Sharp et al ACREAGE 72.63
 OIL & GAS ROYALTY OWNER: Jonathan E. Sharp et al LEASE ACREAGE 73
 LEASE NO. 442400
 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 Benson ESTIMATED DEPTH 5000'
 WELL OPERATOR ICG Tygart Valley, LLC DESIGNATED AGENT Charles E. Duckworth
 ADDRESS 2708 Cranberry Square, Morgantown, WV 26508 ADDRESS 1200 Tygart Drive, Grafton, WV 26508

REVISED BY:	DATE:	API WELL NO. 47-091-0987 SHARP NO. 2
		ICG TYGART VALLEY, LLC
		DRAWING NO. <u>47-091-0987 Sharp #2.0gn</u>
		SCALE: <u>1" = 2000'</u>
		DIRECTORY: <u>DWGTYGTYG #V</u>
		DATE ORIGINATED: <u>JUNE, 2013</u>
		WV DEPT. OF ENVIRONMENTAL PROTECTION
		DRAWING NO. <u>47-091-0987 Sharp #2.0gn</u>
		PLOTTING <u>SCATES</u>



Appalachia - Northern Region
 2708 Cranberry Square, Morgantown, WV 26508
 Phone: 304-594-1616 Fax: 304-594-3708

WW-7
8-30-06



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

API: 47-91-00987 WELL NO.: Sharp No. 2

FARM NAME: Sharp Farm

RESPONSIBLE PARTY NAME: ICG Tygart Valley, LLC

COUNTY: Taylor DISTRICT: Knottsville

QUADRANGLE: Thornton

SURFACE OWNER: Jonathan E. & Linda J. Sharp

ROYALTY OWNER: Jonathan E. & Linda J. Sharp

UTM GPS NORTHING: 4352666.94

UTM GPS EASTING: 587538.50 GPS ELEVATION: 475.28 m

1559. FT

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.

[Signature]
Signature

Attorney-in-fact
Title

July 1, 2013
Date

Received
JUL -2 2013
Office of Oil and Gas
WV Dept. of Environmental Protection