



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 21, 2015

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-102483, issued to COMMONWEALTH ENERGY INC, 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: RIGGS 1, K-68
Farm Name: BELINGTON BANK
API Well Number: 47-102483
Permit Type: Re-Work
Date Issued: 01/21/2015

Promoting a healthy environment.

01/23/2015

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. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with 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.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.
9. The Re-work of API Well # 47-001-02483 excludes the land application of pit waste.

CK 49359
\$ 650⁰⁰

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

1) Well Operator: Commonwealth Energy Inc.

310248	Barbour	Barker	Belington 7.5'
Operator ID	County	District	Quadrangle

2) Operator's Well Number: K-68 3) Elevation: 1562'

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

5) Proposed Target Formation(s): Haverty Proposed Target Depth: 5250'

6) Proposed Total Depth: 5300' Feet Formation at Proposed Total Depth: Haverty

7) Approximate fresh water strata depths: 32'

8) Approximate salt water depths: None shown in offset records

9) Approximate coal seam depths: 14-21'

10) Approximate void depths, (coal, Karst, other): None shown in offset records

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)

Deepen and fracture stimulate existing conventional production well.

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Office of Oil & Gas
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13) CASING AND TUBING PROGRAM

James Royce
12-2-14

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	11 3/4"		Existing	180.95	180.95	
Fresh Water	8 5/8"		Existing	707.30	707.30	
Coal						
Intermediate						
Production	4 1/2"			5300	5300	300 Sacks
Tubing						
Liners						

Packers: Kind: _____

Sizes: _____

Depths Set _____



Reviewed _____
Recorded _____

WR-35

JAN 14 91

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date January 14, 1991
Operator's
Well No. K-68
Farm O.C. Riggs
API No. 47 - 001 - 2483

2483

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1570' Watershed Sugar Creek
District: Barker County Barbour Quadrangle Belington 7.5'

COMPANY Keelex Corporation
ADDRESS P.O.B. 2564, Clarksburg, WV
DESIGNATED AGENT Thomas A. Keeley
ADDRESS P.O.B. 2564, Clarksburg, WV 26301
SURFACE OWNER Belington Bank
ADDRESS 315 Crim Ave., Belington, WV
MINERAL RIGHTS OWNER Belington Bank
ADDRESS 315 Crim Ave., Belington, WV
OIL AND GAS INSPECTOR FOR THIS WORK Phil Tracy
ADDRESS Box 2536, Elkins, WV
PERMIT ISSUED 09/22/89
DRILLING COMMENCED 10/02/89
DRILLING COMPLETED 11/1/89
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
11 3/4"	180.95		93 SKS
9 5/8			
8 5/8	707.30	707.30	173.95 SKS
7			
5 1/2			
4 1/2			Received
3			Office of Oil & Gas
2			DEC 08 2014
Liners used			

GEOLOGICAL TARGET FORMATION Balltown Depth 3000 feet
Depth of completed well 1596 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 32 feet; Salt _____ feet
Coal seam depths: 14-21 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Gantz Pay zone depth 1571 feet
Gas: Initial open flow 2.3 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 2.3 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure n/a psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

01/23/2015

2483

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

DID NOT FRAC. NATURAL

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fractures and salt water, coal, oil and gas
Sandy Dirt			0	4	
Sandy Shale			4	14	
Coal			14	21	
Sand & Shale			21	238	
Coal			238	243	
Sand & Shale			243	1100	
Little Lime			1100	1186	
Big Lime			1186	1315	
Shale			1315	1320	
Big Injun (Gantz)			1320	1596	
T.D.			1596		

(Attach separate sheets as necessary)

KEELEX CORPORATION
Well Operator

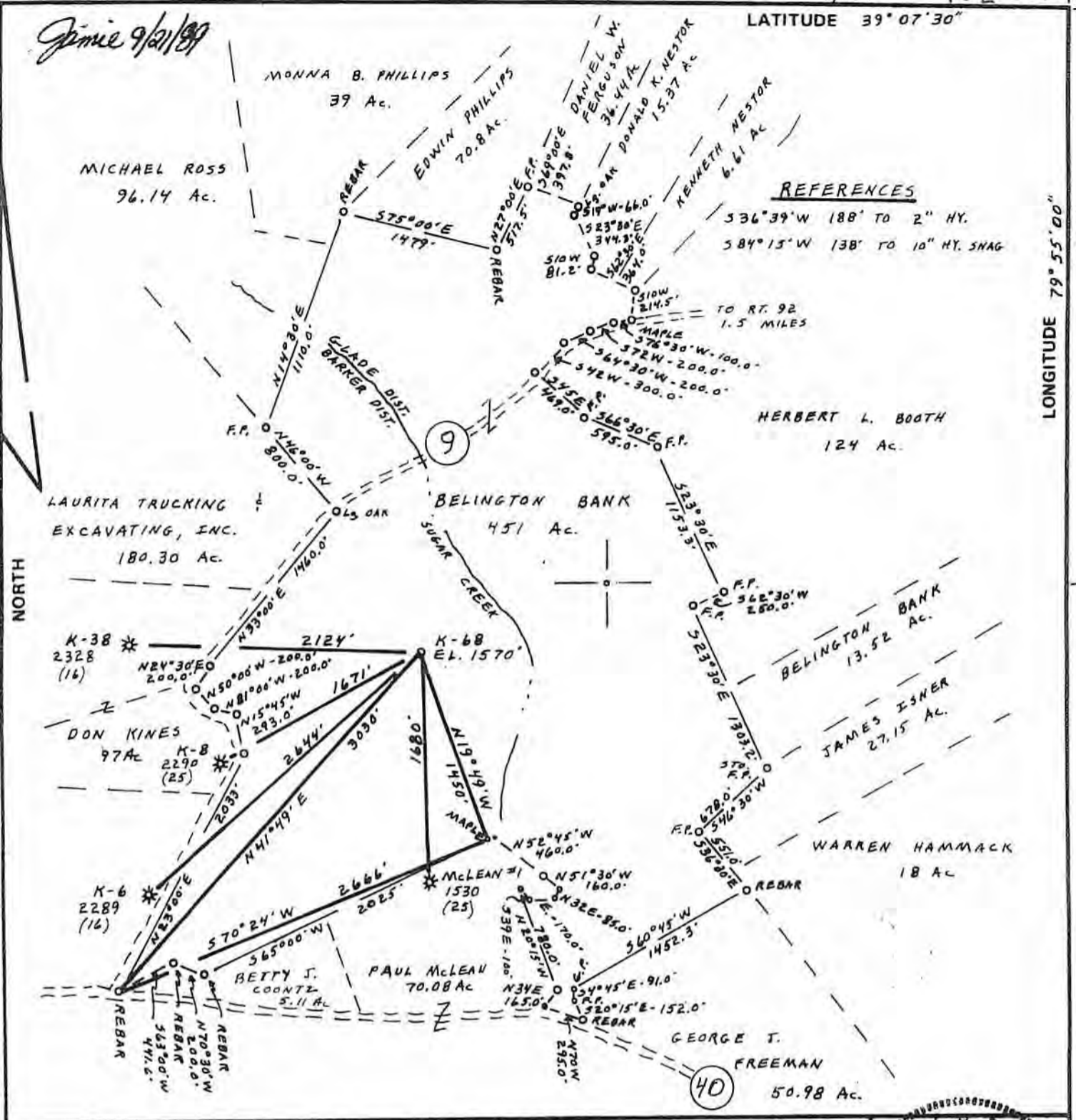
By: Thomas A. Keeley, President
Date: January 14, 1991

01/23/2015

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including soil, encountered in the drilling of a well."

116 93

June 9/21/89



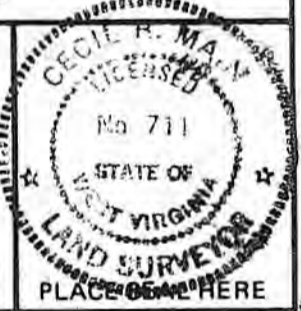
REFERENCES

536°39'W 188' TO 2" HY.
584°15'W 138' TO 10" HY. SHAG

TO RT. 92
1.5 MILES

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200'
 PROVEN SOURCE OF ELEVATION INTERSECTION OF RT 9 & RT. 40 EL. 1684'

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 MINES.
 (SIGNED) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 13, 1989
 OPERATOR'S WELL NO. K-68 O.C. RIGGS
 API WELL NO. 47-001-2483W
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1570' WATER SHED SUGAR CREEK
 DISTRICT BARKER COUNTY BARBOUR
 QUADRANGLE BELINGTON 7.5'
 SURFACE OWNER BELINGTON BANK ACREAGE 410.30
 OIL & GAS ROYALTY OWNER O.C. RIGGS, ET. AL. LEASE ACREAGE 451
 LEASE NO. CG2C BE769
 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 BALLTOWN ESTIMATED DEPTH 3200'
 WELL OPERATOR KEELEX CORPORATION DESIGNATED AGENT ANTHONY J. SABATINO
 ADDRESS BOX 2564 ADDRESS BOX 2564
CLARKSBURG, W. V. 26301 CLARKSBURG, W. V. 26301

Received
 Office of Oil & Gas
 01/23/2015

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WW-2A
(Rev. 6-14)

1.) Date: _____
2.) Operator's Well Number K-68
State County Permit
3.) API Well No.: 47- 001 - 2483

**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:
(a) Name Neil Rollins Et Al. ✓ Address RR 2 Box 45D
Belinaton. WV 26250
(b) Name _____ Address _____
(c) Name _____ Address _____
5) (a) Coal Operator
Name N/A Address _____
(b) Coal Owner(s) with Declaration
Name N/A Address _____
(c) Coal Lessee with Declaration
Name N/A Address _____
6) Inspector Kenneth Grevnolds
Address 613 Broad Run Rd.
Jane Lew. WV 26378
Telephone 304-206-6613

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

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)
- X 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: Commonwealth Energy Inc.
By: [Signature]
Its: Designated Agent
Address: 28 Magnolia Plaza
Weston, WV 26452
Telephone: 304-269-0148
Email: _____

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Office of Oil & Gas
DEC 08 2014

Subscribed and sworn before me this 5 day of DECEMBER, 2014

Vicki A. Brown Notary Public
My Commission Expires April 9, 2024

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

01/23/2015

102483W

SENDER COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 WELLS BOULIERS ET AL.
 RR2 BOX 45D
 BELMONT, WV 26250

COMPLETE THIS SECTION ON DELIVERY

A. Signature *W. Collins*

B. Received by (Printed Name) *WELLS BOULIERS*

C. Received by (Signature) *WELLS BOULIERS*

D. Is delivery record desired (attach Form 3811, if desired) YES, enter on back address label NO

DEC 08 2014

2. Article Number (Transfer from service label) 7014 2320 0004 5563 7225

3. Service Type Certified Mail Priority Mail Express Registered Mail Signature Required for Mailpiece Insured Mail Collect on Delivery

4. Restricted Delivery? (Form 3811) Yes No

PS Form 3811, July 2012

Domestic Return Receipt

Received
 Office of Oil & Gas
 DEC 08 2014

01/23/2015

102483W

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

NEIL ROLLINS ET AL.
 RR2 BOX 45D
 BELINGTON, WV 26250

2. Article Number
 (Transfer from service label)

7014 2120 0004 5563 7225

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from Item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

Received
 Office of Oil & Gas

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9 X 12



102 483 W

CERTIFIED MAIL



7014 2120 0004 5563 7225



SMITH LAND SURVEYING, INC.

12 Vanhorn Drive
PO Box 150
Glenville, WV 26351

TO:

NEIL ROLLINS ET AL /
RR 2 BOX 45D
BELINGTON, WV 26250

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DEC 08 2014

WW-2B1
(5-12)

Well No. K-68

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 contactor chosen to collect sample.

Certified Laboratory Name	<u>Reliance Labs</u>
Sampling Contractor	<u>Smith Land Surveying, Inc. - Environmental Division</u>

Well Operator	<u>Commonwealth Energy Inc.</u>
Address	<u>28 Magnolia Plaza</u>
	<u>Weston, WV 26452</u>
Telephone	<u>304-269-0148</u>

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.

NOTE: There appears to be 3 potable water sources within 1500', therefore tests will be offered and samples taken as required.

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Office of Oil & Gas
DEC 08 2014

01/23/2015

102483w

WW-2A1
(Rev. 1/11)

Operator's Well Number K-68

**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
Edgar Southern	Commonwealth Energy Inc.	.0825	81/537
Glade Energy	Commonwealth Energy Inc.	.08563	81/537
Cecil R. & Linda Howell	Commonwealth Energy Inc.	.0003	81/537
Roy A. & Gloria White	Commonwealth Energy Inc.	.00028	81/537
Rodney & Delores Tallman	Commonwealth Energy Inc.	.0000898	81/537
Douglas K. & Deborah L. Baldwin	Commonwealth Energy, Inc.	.000393	81/537
Lowell & Marjorie Larew	Commonwealth Energy, Inc.	.00254	81/357

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

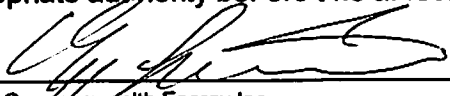
The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- 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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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:



 Commonwealth Energy Inc.

 Designated Agent

01/23/2015

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Commonwealth Energy Inc. OP Code 310248

Watershed (HUC 10) Sugar Creek Quadrangle Belington

Elevation 1562' County Barbour District Barker

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes X No _____

If so, please describe anticipated pit waste: Drill water, flowback, and various formation cuttings.

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml. 20 ml. 9MM

Proposed Disposal Method For Treated Pit Wastes:

- Land Application NO LAND APPLICATION AS WATER IS POOLING ON SITE.
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

MUST DISPOSE WELL EFFLUENT PROPERLY.

Will closed loop system be used? No

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air

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

Additives to be used in drilling medium? None

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

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

-Landfill or offsite name/permit number? _____

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) Commonwealth Energy Inc.

Company Official Title Designated Agent

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Office of Oil & Gas

DEC 08 2014

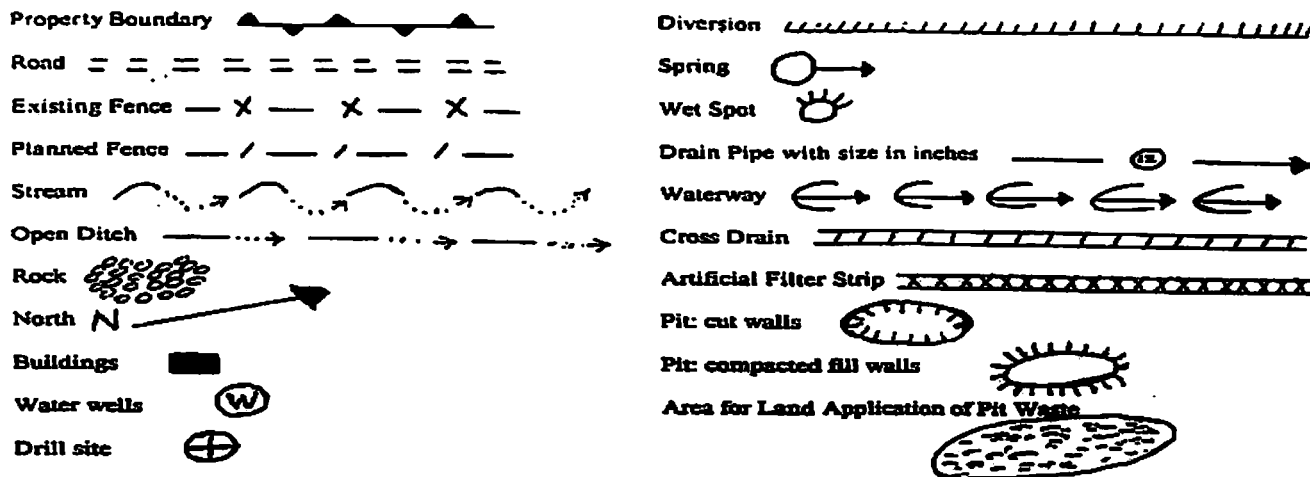
Subscribed and sworn before me this 5 day of DECEMBER, 20 14

Wicki A. Brown

My commission expires April 9, 2024



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.48 ± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
KY-31		40	ORCHARD GRASS		15
ALSIKE CLOVER		5	ALSIKE CLOVER		5
ANNUAL RYE		15			

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

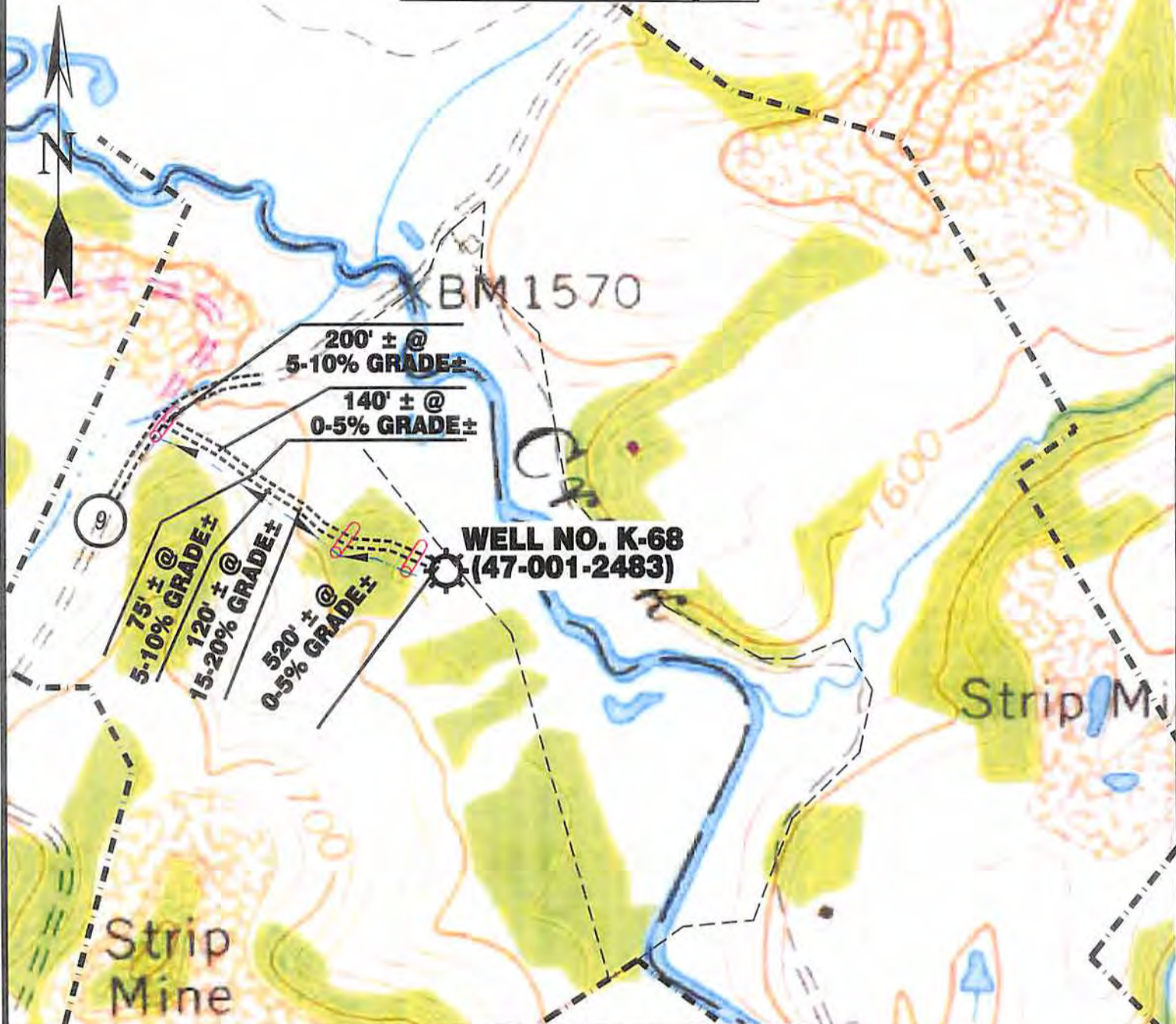
Comments: [Signature]

Title: 0127605 INSPECTION Date: 12-2-14

Field Reviewed? Yes No

WELL NO. K-68 (47-001-2483)

102483 W

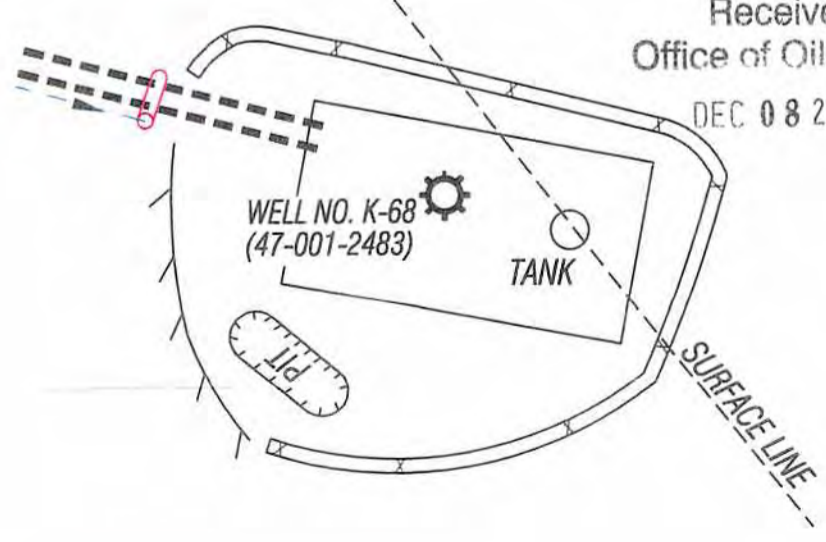


Detail Sketch for Proposed Well No. K-68 (47-001-2483)

Ernest Shepard
12-2-14

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Office of Oil & Gas
DEC 08 2014

SCALE: 1"=500'



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

01/23/2015

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

- EXISTING CULVERT
- = PROPOSED CULVERT 15' MIN UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING
- = APPROXIMATE LIMITS OF DISTURBANCE

Not To Scale

TOPO SECTION OF BELINGTON 7.5' USGS TOPO QUADRANGLE

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.

SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

(304) 462-5634
WWW.SLSURVEYS.COM

DRAWN BY K.D.W.	FILE NO. 8330	DATE 11/14/14	CADD FILE: 8330RECPLAN.dwg
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WELL API 102483

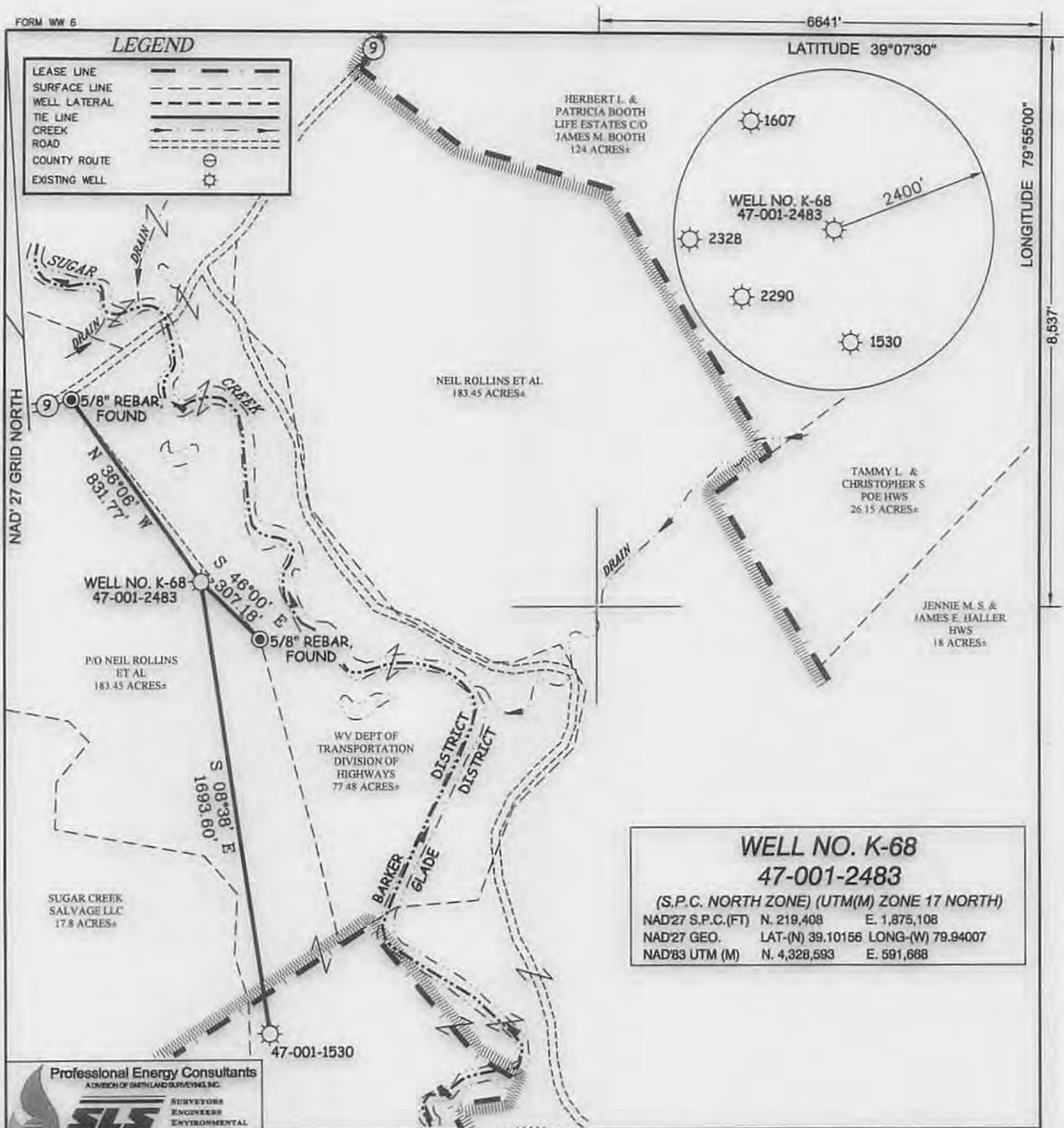
YELLOW AREA REPRESENTS 100 YEAR FLOODPLAIN

102483W



LEGEND

LEASE LINE	---
SURFACE LINE	----
WELL LATERAL	-----
TIE LINE	=====
CREEK	~~~~~
ROAD	-----
COUNTY ROUTE	⊙
EXISTING WELL	☼



WELL NO. K-68
47-001-2483
 (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD27 S.P.C.(FT) N. 219,408 E. 1,875,108
 NAD27 GEO. LAT-(N) 39.10156 LONG-(W) 79.94007
 NAD83 UTM (M) N. 4,328,593 E. 591,668



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE NOVEMBER 14, 20 14
 REVISED _____, 20 _____
 OPERATORS WELL NO. _____ K-68
 API WELL NO. 47 - 001 - 02483W
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8330P2483
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE) SCALE 1" = 500'

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

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

LOCATION: ELEVATION 1,562' WATERSHED SUGAR CREEK
 DISTRICT BARKER COUNTY BARBOUR QUADRANGLE BELINGTON 7.5'

SURFACE OWNER NEIL ROLLINS ET AL ACREAGE 183.45±
 ROYALTY OWNER O.C. RIGGS ET AL ACREAGE 45±

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER X REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION HAVERTY
 ESTIMATED DEPTH 5,300'

WELL OPERATOR COMMONWEALTH ENERGY INC. DESIGNATED AGENT ENZO CARDELLI
 ADDRESS 28 MAGNOLIA PLAZA ADDRESS RT. 4 BOX 771
WESTON, WV 26452 BUCKHANNON, WV 26201

COUNTY NAME
 PERMIT

01/23/2015

WELL 102483

YELLOW AREA REPRESENTS
100 YEAR FLOODPLAIN FROM ERIS.



01/23/2015