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 23, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8101268, issued to EXCO RESOURCES (PA), 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 penalities 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: 4-C
Farm Name: WESTERN POCAHONTAS PROP.
API Well Number: 47-8101268
Permit Type: Plugging
Date Issued: 06/23/2016

Promoting a healthy environment.

8101268CP

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

8101268CP

WW-4B
20
Rev. 2/01

1) Date 5/1/2016,

2) Operator's
Well No. WpP 4-C
API Well No. 47- 081-01268C
-

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 ____/ Shallow____

5) Location: Elevation 2516 Watershed Stover Fork
District Trap Hill County Releigh Quadrangle Beckley

6) Well Operator EXCO Resources (PA), LLC
Address PO Box 8.
Ravenswood, WV 26164

7) Designated Agent Diana Stampler/C.T.Corp.
Address 5400 D Big Tyler Road
Charleston, WV 25301

Oil and Gas Inspector to be notified
Name GARY KENNEDY
Address Po Box 268, Nimitz WV 25978

PHONE 304 382 8402

9) Plugging Contractor
Name R & R WELL SERVICE
Address 42 LYNCH RIDGE
WALTON, WV 25286

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

check Rock pressure — Put up lots of Ribbon

Remove all equipment used to produce well
Pull 1125'of tubing'
Fill sump and laterials with water
Gel hole
cement 765 to 665
Set permsnent bridge at 490'
Cement 100' above bridge to 390
Gel to 390 to 100'
Cement 100'to surface
Set Monument with proper API

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SIGNATURE Gary Kennedy DATE- 6/7/2016

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WR-35
Rev (5-01)

DATE: 11/5/2004
API # : 47-8101268-C

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

GCS

Well Operator's Report of Well Work

Farm name: **Western Pocahontas** Operator Well No.: **4-C**

LOCATION: Elevation: **GL 1964'** Quadrangle: **LESTER 7.5"**
District: **TRAP HILL** County: **RALEIGH**
Latitude: **3,100** Feet South of **37** Deg. **45** Min. **00** Sec.
Longitude **120** Feet West of **81** Deg. **20** Min. **00** Sec.

Company: Energy Search, Inc	**Casing & Tubing**	**Used in drilling**	**Left in well**	**Cement fill up Cu. Ft.**
Address: 88 Products Lane, Marietta, Ohio 45750				
	20"	20'	20'	
Agent: Mike McCown				
Inspector: Rick Campbell	13 3/8"	220'	220'	185 sks
Date Permit Issued: 4/11/2002				
Date Well Work Commenced: 8/10/2002	9 5/8"	510'	510'	175 sks
Date Well Work Completed: 9/3/2002				
Verbal Plugging:				
Date Permission granted on:				
Rotary XX Cable Rig	5 ½"		1188'	Not Cemented
Total Depth (feet): Sump Hole 1199'MD/865'TVD Main Lateral: 2804'MD/714"TVD Leg 1: 2072'MD/732"TVD Leg 2: 2001'MD/735'TVD				
Fresh Water Depth (ft.): N/A	2 3/8"		1125'	
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):				

OPEN FLOW DATA

Producing formation **Poca #3 Coal Seam** Pay zone depth (ft) **TVD Range 714 –735'**

Gas: Initial open flow **220 in-line** MCF/d Oil: Initial open flow_____Bbl/d
Final open flow **220 in-line** 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

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____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

Signed: _____
By: Geologist
Date: 11-10-04

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Office of Chief
MAR 18 2005
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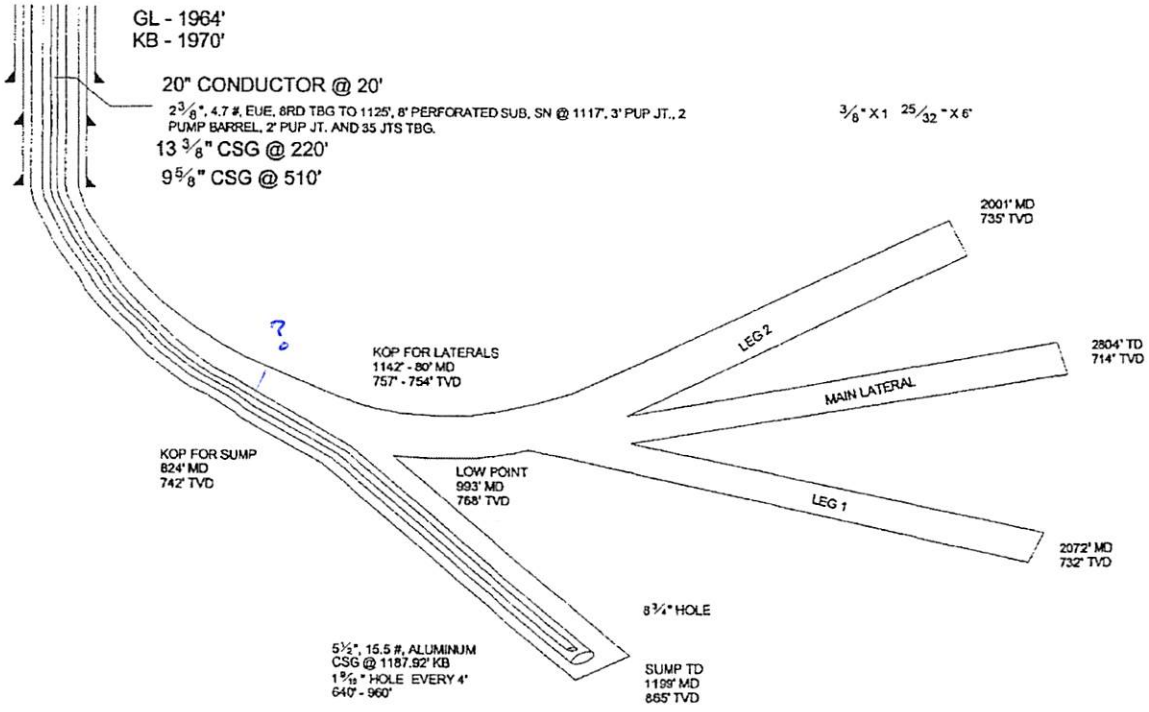
WESTEN POCAHONTAS 4-C
RALEIGH CO., WV



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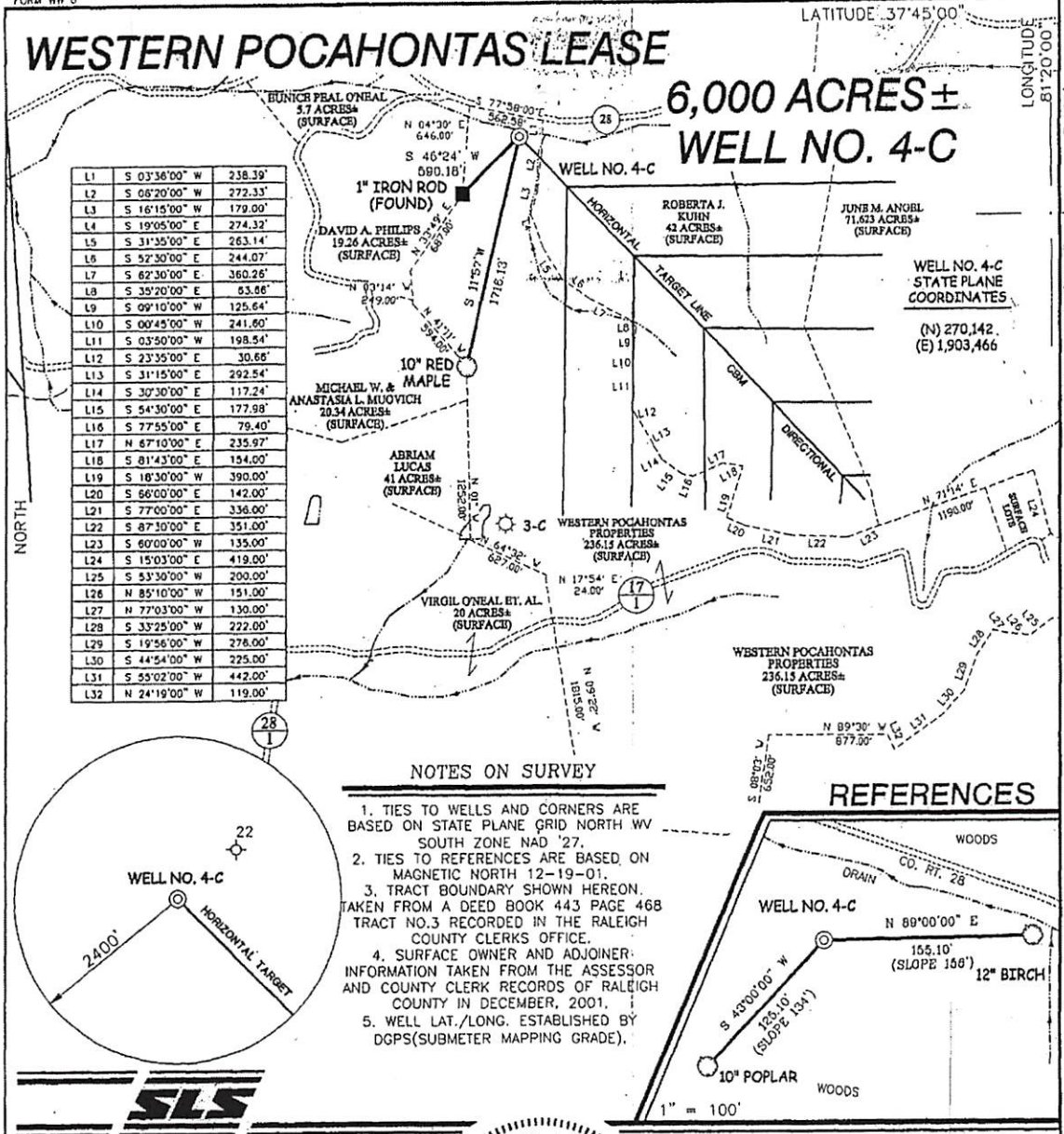
WPP 4C

FORM WW-6

WESTERN POCAHONTAS LEASE

6,000 ACRES±

WELL NO. 4-C



L1	S 03°36'00" W	238.39'
L2	S 06°20'00" W	272.33'
L3	S 16°15'00" W	179.00'
L4	S 19°05'00" E	274.32'
L5	S 31°35'00" E	263.14'
L6	S 52°30'00" E	244.07'
L7	S 62°30'00" E	360.26'
L8	S 35°20'00" E	83.66'
L9	S 09°10'00" W	125.64'
L10	S 00°45'00" W	241.60'
L11	S 03°50'00" W	198.54'
L12	S 23°35'00" E	30.66'
L13	S 31°15'00" E	292.54'
L14	S 30°30'00" E	117.24'
L15	S 54°30'00" E	177.98'
L16	S 77°55'00" E	79.40'
L17	N 67°10'00" E	235.97'
L18	S 81°43'00" E	154.00'
L19	S 18°30'00" W	390.00'
L20	S 66°00'00" E	142.00'
L21	S 77°00'00" E	336.00'
L22	S 87°30'00" E	351.00'
L23	S 60°00'00" W	135.00'
L24	S 15°03'00" E	419.00'
L25	S 53°30'00" W	200.00'
L26	N 85°10'00" W	151.00'
L27	N 77°03'00" W	130.00'
L28	S 33°25'00" W	222.00'
L29	S 19°56'00" W	276.00'
L30	S 44°54'00" W	225.00'
L31	S 55°02'00" W	442.00'
L32	N 24°19'00" W	119.00'

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 12-19-01.
3. TRACT BOUNDARY SHOWN HEREON. TAKEN FROM A DEED BOOK 443 PAGE 468 TRACT NO.3 RECORDED IN THE RALEIGH COUNTY CLERKS OFFICE.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RALEIGH COUNTY IN DECEMBER, 2001.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES

SLS

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 ENVIRONMENTAL PROTECTION.

P.S. 677 Gregory A. Smith

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE JANUARY 14, 20 02

OPERATORS WELL NO. 4-C

API WELL NO. 47 — 81 — 01268C
STATE — COUNTY — PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500

PROVEN SOURCE OF ELEVATION BENCHMARK MARK ELEVATION 1933'

FILE NO. 4590P4C(115-18)

SCALE 1"= 1000'

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 1980' WATERSHED TRIBUTARY OF ROCKHOUSE FORK
DISTRICT TRAP HILL COUNTY RALEIGH QUADRANGLE LESTER 7.5'
SURFACE OWNER WESTERN POCAHONTAS PROPERTIES ACREAGE 236.15±
ROYALTY OWNER WESTERN POCAHONTAS PROPERTIES LEASE ACREAGE 289.1± OF 6,000±
PROPOSED WORK : LEASE NO.
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION POCAHONTAS NO. 3
ESTIMATED DEPTH 1,300'

COUNTY-NAME-PERMIT

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WELL OPERATOR ENERGY SEARCH, INC.
ADDRESS 280 SANDERS W. BLVD. SUITE 200
KNOXVILLE, TN 37922

DESIGNATED AGENT FRANK ROTUNDA
ADDRESS 1608 GREENMONT HILLS DR.
VIENNA, WV 26105

8101268CP

WW-4A
Revised 6-07

1) Date: 5/1/2016
2) Operator's Well Number
Beaver Coal Wpp 4-C

3) API Well No.: 47 - 081-01268C

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name Western Pocahontas Properties, LP
Address 5260 Irwin Rd. Huntington, WV 25705

(b) Name
Address

(c) Name
Address

5) (a) Coal Operator
Name Beaver Coal Co. — Western Pocahontas Prop.
Address ~~115 ½ Kanawha St. Beckley, Wv 25801~~ 5260 Irwin Rd Huntington, WV 25705

(b) Coal Owner(s) with Declaration ~~Beaver Coal Co LTD~~
Name
Address
P.O.

Address

6) Inspector
Address Gary Kennedy
P.O. Box 268
Nimitz, WV 25978
Telephone Ph. (304) 382 8402

(c) Coal Lessee with Declaration
Name
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 Chie

Official Seal
Notary Public, State of West Virginia
Kathryn Shafer
4427 Charleston Road
Ripley WV 25271
My Commission Expires May 9, 2024

Well Operator EXCO RESOURCES (PA), LLC
By: Randall Sheets
Its: Supervisor
Address P O BOX 8
RAVENSWOOD, WV 26164
Telephone 304-273-5371

Subscribed and sworn before me this 7th day of June 2016
Notary Public Kathryn Shafer
My Commission Expires 5/9/24

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JUN 09 2016
WV Department of Environmental Protection

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.

8101268CP

WW-9
(5/13)

Page _____ of _____
API Number 47 - 081 - 01268C
Operator's Well No. WPP 4C

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EXCO Resources (PA), LLC OP Code 307860

Watershed (HUC 10) Trib. Of Rockhouse Fork Quadrangle Lester 7.5

Elevation ~~2010 TPSD~~ 1964 County Releigh District Trap Hill

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

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

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:

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY.

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
_____ Reuse (at API Number _____)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
X Other (Explain no flluids are expected in return _____

Will closed loop system be used? _____

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

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

Additives to be used in drilling medium? _____

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

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

-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 Randall K. Sheets

Company Official (Typed Name) Randall Sheets

Company Official Title Supervisor

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JUN 09 2016
WV Department of Environmental Protection

Subscribed and sworn before me this 7th day of June, 2016

Kathryn Shafer Notary Public

My commission expires 5/9/24

Official Seal
Notary Public, State of West Virginia
Kathryn Shafer
4427 Charleston Road
Ripley WV 25271
My Commission Expires May 9, 2024

8101268CA

Form WW-9

Operator's Well No. WPP 4C_____

Proposed Revegetation Treatment: Acres Disturbe 0.5 Prevegetation pH 6.0

Lime 2 Tons per Acre of correct to 6.5

Fertilizer (10-20-20 or equivalent) _____500lbs/acre (500 lbs minimum)

Mulch_____2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KENTUCKY FESCUE	40	SAME AS #1	
~~ALSIKE CLOVER~~	~~5~~		
ANNUAL RYE	16		

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jimmy Kennedy

Comments: _____

Title: Inspector Date: 6/7/2016

Field Reviewed? (_____) Yes (_____) No

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81-1268LCP

FORM WW-9

WESTERN POCAHONTAS LEASE
WELL NO. 4-C

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Permitting
AUG 14 2002
WV Department of
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REVISED REC. PLAN

SLS
SMITH LAND SURVEYING
P.O.BOX 150 GLENVILLE, WV. 26351

TOPO SECTION OF Lester 7.5'

FILE NO. 4590 DATE 8/5/02 SCALE 1"=1000'

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8101268C P

WW-7
8-30-06

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

API: 47 081 01268 C WELL NO.: WPP 4C

FARM NAME: Western Pocahontas Properties

RESPONSIBLE PARTY NAME: EXCO Resources (PA), LLC

COUNTY: Releigh DISTRICT: Trap Hill

QUADRANGLE: Lester 7.5

SURFACE OWNER: Western Pocahontas Properties

ROYALTY OWNER: Western Pocahontas Properties

UTM GPS NORTHING: 4177193

UTM GPS EASTING: 470615 GPS ELEVATION: 1964

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 X: 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.

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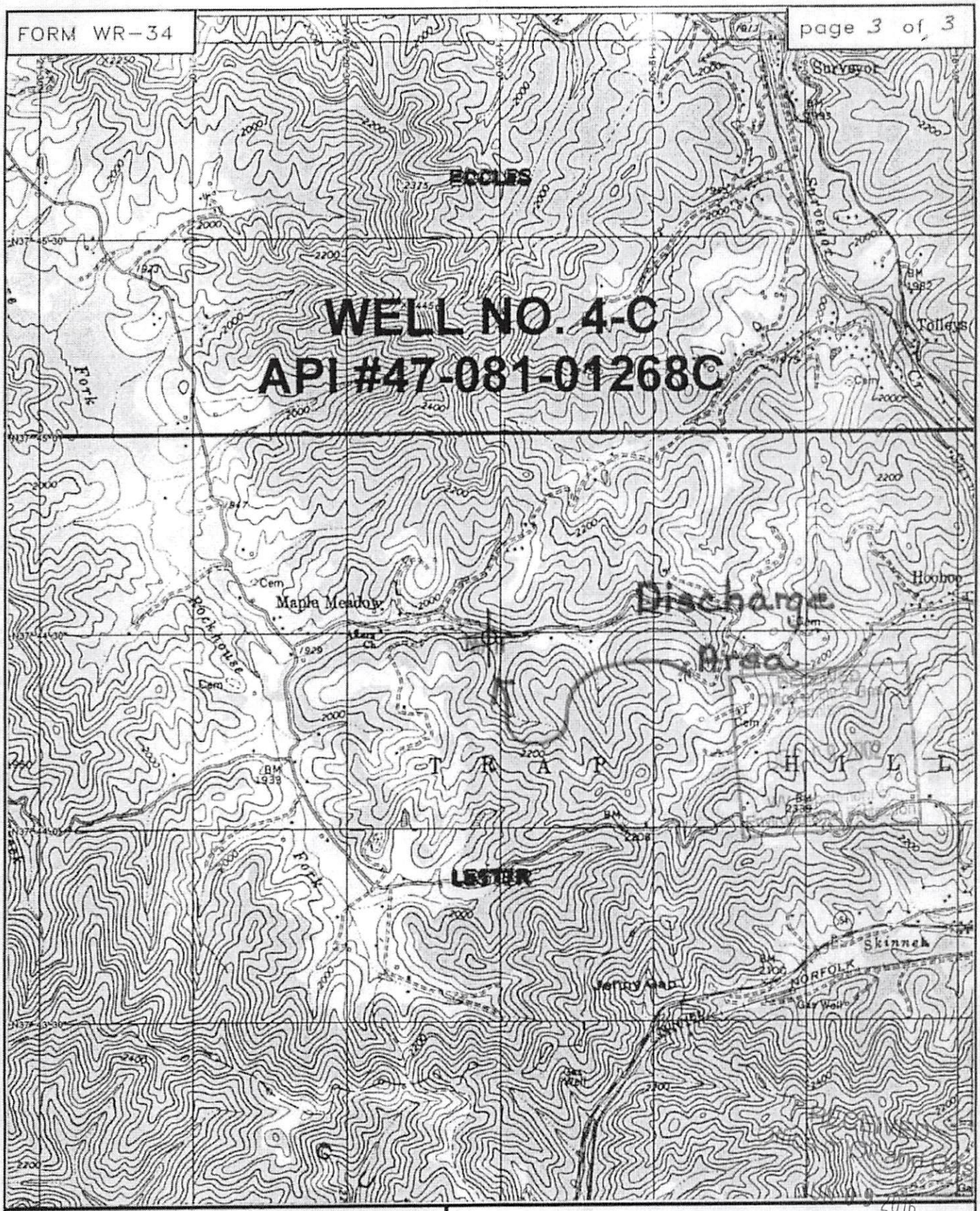
Randall D. Stalnaker — Supervisor — 6/7/16

Signature Title Date

8101268CP

FORM WR-34



SLS
SMITH LAND SURVEYING
P.O.BOX 150 GLENVILLE, WV. 26351

TOPO SECTION OF LESTER WV 5'

FILE NO. 1292 P DATE 11/25/02 SCALE 1"=2000'

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