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: 47-8101270, 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: 3-C-REV
Farm Name: WESTERN POCAHONTAS PROP.
API Well Number: 47-8101270
Permit Type: Plugging
Date Issued: 06/23/2016

Promoting a healthy environment.

8101270 CP

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.

WW-4B
20
Rev. 2/01

1) Date 5/1/2016,

2) Operator's
Well No. WpP 3-C
API Well No. 47- 081-01270C
-

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 PRESURE — Put up Lots of Ribbon

Remove all equipment used to produce well
Run tubing to TD 976'
Gel hole
Freepoint, cut and pull 51/2
Gel to 50'below cut of 5 ½
Cement 100'across cut
Gel to 100'
Cement 100'to surface
Set Monument with proper API

CONFER WITH INSPECTOR

- IF WELL WAS DRILLED HORIZONTALLY THROUGH COAL SEAMS, (IE. POCAHONTAS 3), THEN A CIBP MUST BE SET JUST ABOVE THAT SEAM AND A 100' CEMENT PLUG PLACED ON TOP.
- IF 5½" WAS CEMENTED TO SURFACE, THEN GEL FROM TOP OF BOTTOM HOLE PLUG TO 287', THEN SET 100' CIA CEMENT PLUG FROM 287' TO 187'.
- GEL TO 100' & SET CIA CEMENT PLUG TO SURFACE.

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JUN 09 2016
WV Department of Environmental Protection

SIGNATURE Gary Kennedy DATE- 6/7/2016

CBM Well Prognosis

Vertical Well Version 4, July 7, 2003

Name :	WPP 3-C		Well Type: Vertical Well
Surf. Loc. :	Lat	37° 43' 48"	37.734139
	Long	-81° 19' 48"	-81.334139
	N (UTM)		
	E (UTM)		
	Coord. Sys.	WV State Plane NAD 27	
Staked Elev:	2,015	As Drill Elev:	
PTD:			

81-1270

Objectives	Horizon	Vertical DD	SS	Depth Uncertainty	Thickness
	20" Bit	16" Cond. set @ 30' Drill depth (grouted w/ cuttings)			
	13 1/2" Bit	11 3/4" CSG set @ 220' Drill depth (cmt. to surface)			
	Sewell	140	1,875		
	Beckley A				
	Beckley B	488	1,527	well w/in mine pillar	1.79
	BeckleyC				
	11" Bit	8 5/8" CSG if water w/in Beckley			
	Fire Creek				
	Poca 6				
	Poca 5	631	1,384		1.29
	Poca 4	649	1,366		1.58
		5 1/2" CSG set close to top Poca 3			
2' x only →	Poca 3	765			3.00
→	Poca 2b	800			1.85
→	Poca 2a	811			1.97
	7 7/8" Bit				
	TD	961		TOTAL COAL	[illegible]

5 1/2 Fiberglass Csg. over objectives if water an issue.

Prepared by : Rankin / Sinclair w/ Marshall Miller Xsecs & WVGES Quad Sheets

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JC 7/08/03

FORM WW-6

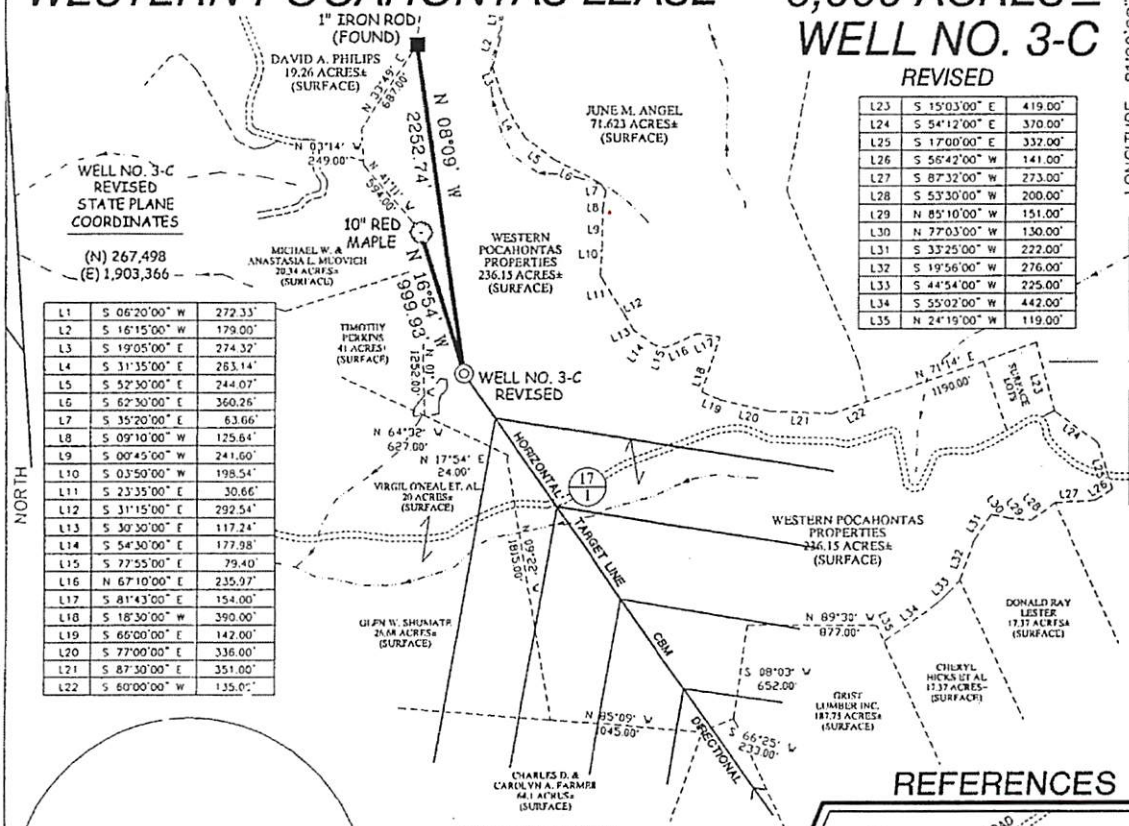
WPP 3C

LONG. 81°20'02.9" — 210'

LATITUDE 37°45'00"

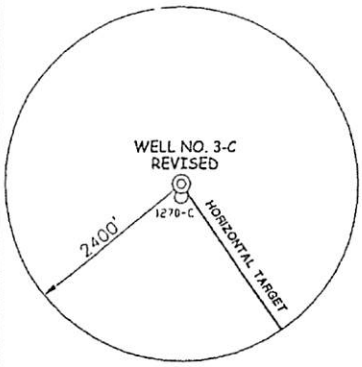
WESTERN POCAHONTAS LEASE

6,000 ACRES±
WELL NO. 3-C
REVISED



L1	S 06°20'00" W	272.33'
L2	S 16°15'00" W	179.00'
L3	S 19°05'00" E	274.32'
L4	S 31°35'00" E	263.14'
L5	S 52°30'00" E	244.07'
L6	S 62°30'00" E	360.26'
L7	S 35°20'00" E	63.66'
L8	S 09°10'00" W	125.64'
L9	S 00°45'00" W	241.60'
L10	S 03°50'00" W	198.54'
L11	S 23°35'00" E	30.66'
L12	S 31°15'00" E	292.54'
L13	S 30°30'00" E	117.24'
L14	S 54°30'00" E	177.98'
L15	S 77°55'00" E	79.40'
L16	N 67°10'00" E	235.97'
L17	S 81°43'00" E	154.00'
L18	S 18°30'00" W	390.00'
L19	S 66°00'00" E	142.00'
L20	S 77°00'00" E	336.00'
L21	S 87°30'00" E	351.00'
L22	S 60°00'00" W	135.0[illegible]'

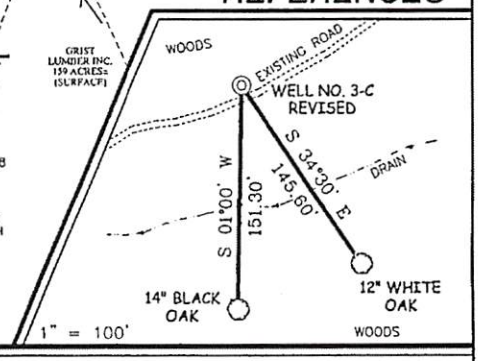
L23	S 15°03'00" E	419.00'
L24	S 54°12'00" E	370.00'
L25	S 17°00'00" E	332.00'
L26	S 56°42'00" W	141.00'
L27	S 87°32'00" W	273.00'
L28	S 53°30'00" W	200.00'
L29	N 85°10'00" W	151.00'
L30	N 77°03'00" W	130.00'
L31	S 33°25'00" W	222.00'
L32	S 19°56'00" W	276.00'
L33	S 44°54'00" W	225.00'
L34	S 55°02'00" W	442.00'
L35	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).
6. WELL NO. 3-C WAS ORIGINALY PERMITTED AS 47-081-1270-C.

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 DIVISION 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
REVISED SEPTEMBER 8, 20 02
OPERATORS WELL NO. 3-C REVISED
API WELL NO. 47 — 81 — 01270C-REV.
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 4590P3CF (-33-13)
SCALE 1"= 1000'
PROVEN SOURCE OF ELEVATION BENCHMARK ELEVATION 1,933'

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 2,010' 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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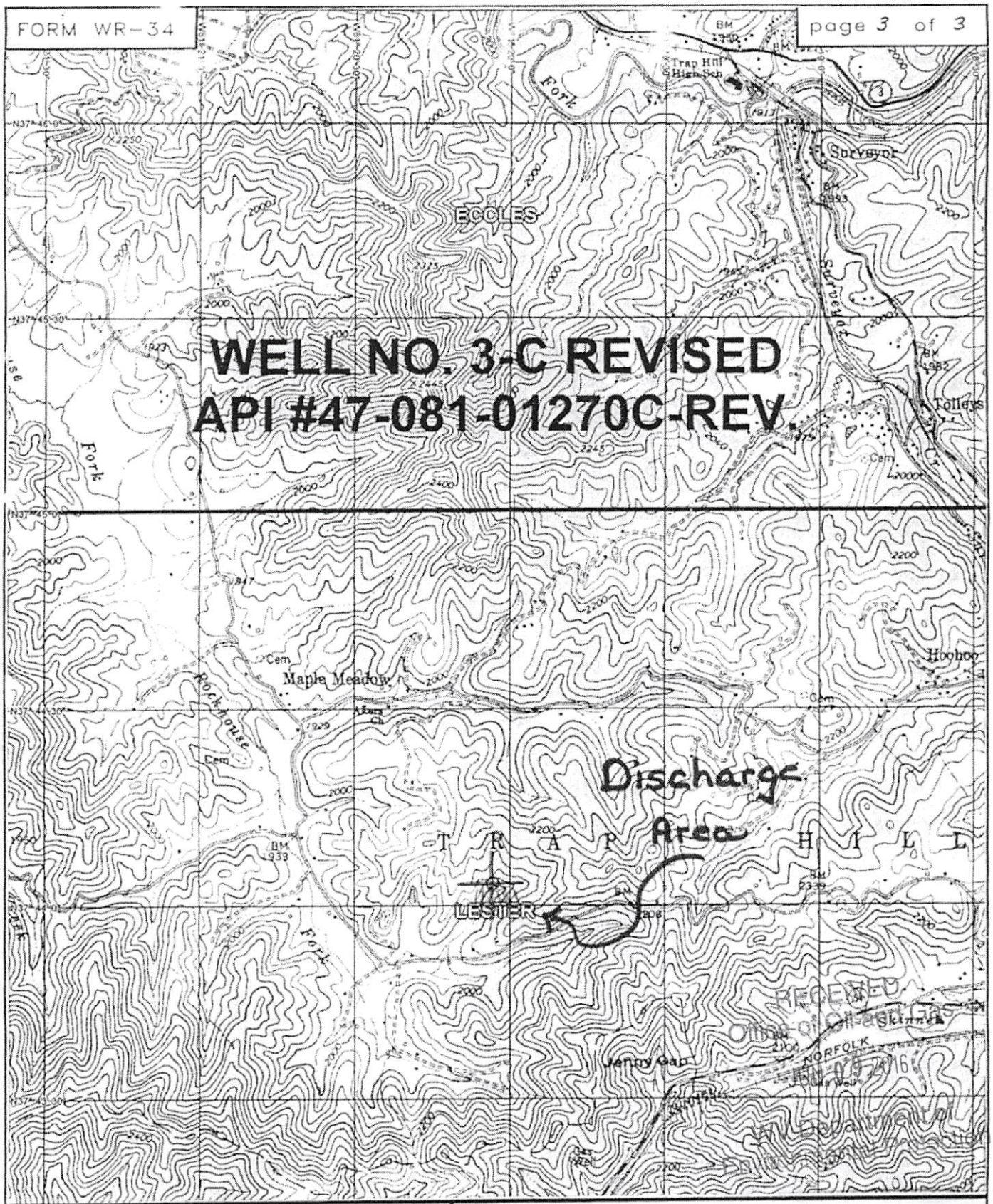
WELL OPERATOR ENERGY SEARCH, INC.
ADDRESS ROUTE 11, BOX 41
MARIETTA, OH 45750

DESIGNATED AGENT DAVE PERKINSON
ADDRESS 377 EASTVIEW DRIVE
PARKERSBURG, WV 26104

Revised To 81 1270

FORM WR-34



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

TOPO SECTION OF LESTER 7.5'

FILE NO. 1759 P DATE 7/27/04 SCALE 1" = 2000'

WR-35
Rev (5-01)

DATE: 5/10/2006
API # : 47-8101270

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

Well Operator's Report of Well Work

Farm name: Western Pocahontas Properties Operator Well No.: 3-C

LOCATION: Elevation: 2010 GL Quadrangle: Lester 7.5'
District: Trap Hill County: Raleigh
Latitude: 5780 Feet South of 37 Deg. 45 Min. 00 Sec.
Longitude 210 Feet West of 81 Deg. 20 Min. 00 Sec.

Company: Energy Search, Inc. 88 Products Lane Marietta, Ohio 45750	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address:				
	16"	25'	25'	
Agent: Michael McCown				
Inspector:	11 ¾"	237'	237'	150 sks
Date Permit Issued: 5/16/2002				
Date Well Work Commenced: 7/14/2003	5 ½"	926'	926'	250 sks
Date Well Work Completed: 7/29/2003				
Verbal Plugging:				
Date Permission granted on:				
Rotary XX Cable Rig				
Total Depth (feet): 975'				
Fresh Water Depth (ft.): 2" strm 42-46ft				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.): 149-152; 410-420; 465-470				

OPEN FLOW DATA

Producing formation None - to be plugged 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

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

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.

Signed:
By: Kent C. Stewart
Date: 5/10/2006

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Office of Chief
MAY 12 2006
WV Department of
Environmental Protection
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JUN 09 2016
WV Department of
Environmental Protection

W-4A
Revised 6-07

1) Date: 5/1/2016
2) Operator's Well Number
Beaver Coal Wpp 3-C

3) API Well No.: 47 - 081-01270C
-

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.. Hungtington, WV 25705

(b) Name
Address

(c) Name
Address

5) (a) Coal Operator
Name Beaver Coal co.
Address 115 ½ Kanawha St Beckley, WV 25801

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

Address

(c) Coal Lessee with Declaration
Name
Address

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

Telephone

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 Randall Sheets
Its: Supervisor
Address P O BOX 8
RAVENSWOOD, WV 26164
Telephone 304-273-5371

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Office of Oil and Gas
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

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.

8101270CP

WW-9
(5/13)

Page _____ of _____
API Number 47 - _____081_ - 01270C__
Operator's Well No. WPP 3C

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

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

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

Elevation 2010 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 & 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.

RECEIVED Office of Oil and Gas JUN 09 2016 WV Department of Environmental Protection

Company Official Signature Randall Sheets

Company Official (Typed Name) Randall Sheets

Company Official Title Supervisor

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

Kathryn Shafer Notary Public

My commission expires 5/9/24

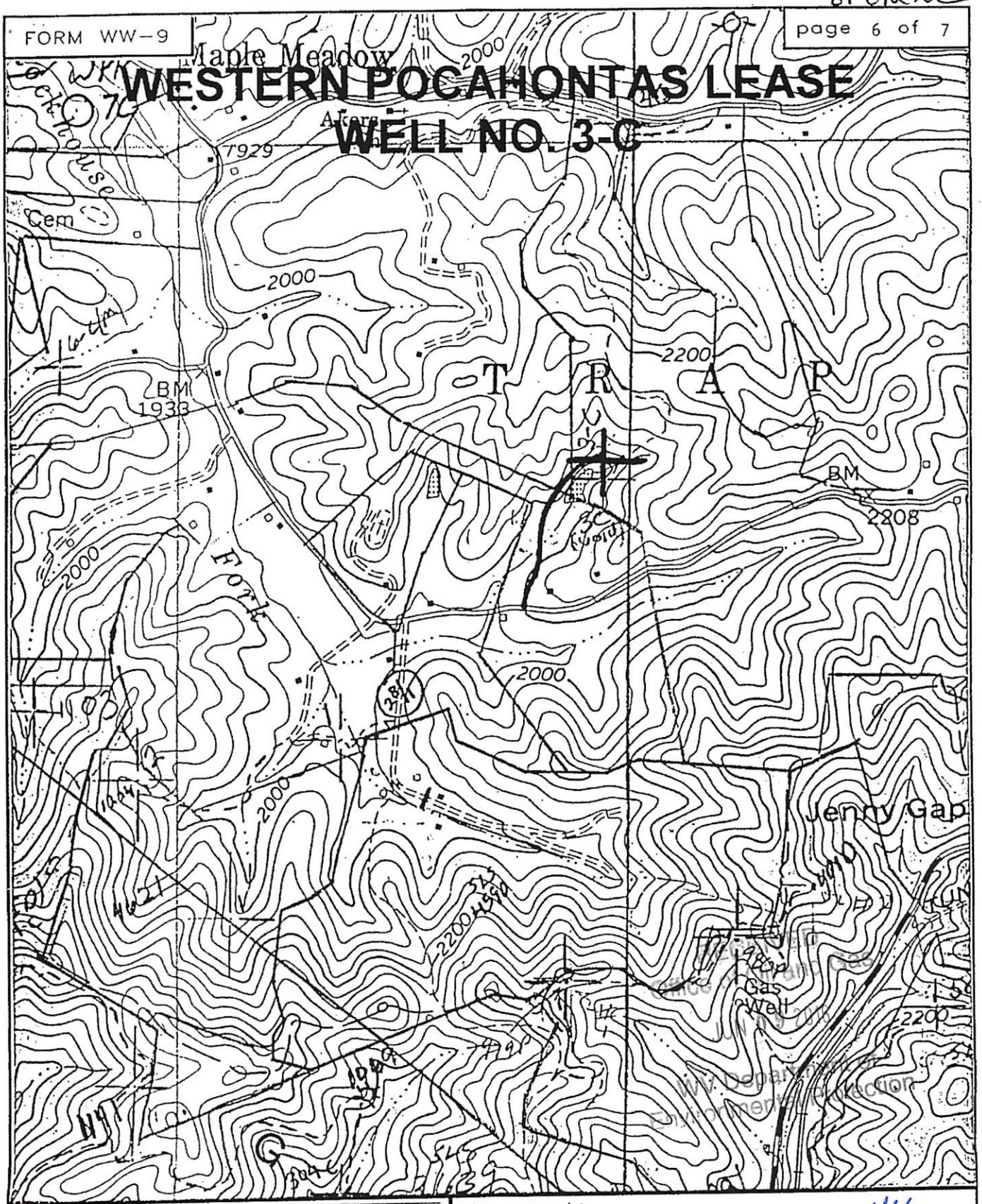
Official Seal
Notary Public, State of West Virginia
Kathryn Shafer
4427 Charleston Road
Ripley WV 25271
My Commission Expires May 9, 2024

8101270CP

81-012700

FORM WW-9

WESTERN POCAHONTAS LEASE
WELL NO. 3-C



SLS

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

TOPO SECTION OF Lester 7.5'

FILE NO. 4590 DATE 9/9/02 SCALE 1"=1000'

81,01270C P

WW-7
8-30-06

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

API: 47 081 01270 C **WELL NO.:** WPP 3C

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: 4176340.2

UTM GPS EASTING: 470579.8 **GPS ELEVATION:** 2010

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 _____

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Environmental Protection

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.

Randall D Slater — Supervisor — 6/7/16

Signature — Title — Date