

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: 47-8101271, 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.

Operator's Well No: NEW RIVER 32

Farm Name: WHITE OAK LAND CO.

API Well Number: 47-8101271 Permit Type: Plugging

Date Issued: 06/23/2016

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.

1)Dat	e5/1/2016	,
	rator's 1 No.New River 32	
	Well No. 47- 081-01271	_

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

APPLICATION FOR A PERM	III TO PLUG AND ABANDON
4) Well Type: Oil/ GasX_/ Liqui	d injection/ Waste disposal/
(If "Gas, Production X or Und	lerground storage) Deep/ Shallow
5) Location: Elevation_2409	Watershed Cramberry Creek
District Town	County Releigh Quadrangle Beckley
DVCO Parameter (PA) IIC	7) Designated Agent Diana Stampler/C.T.Corp.
	7) Designated Agent Diana Stampler/C.T.Corp. Address 5400 D Big Tyler Road
Address <u>PO Box 8.</u> Ravenswood, WV 26164	Charleston, WV 25301
Ravenswood, WV 20104	
Oil and Gas Inspector to be notified	9) Plugging Contractor
Name GARY KENNEDY	Name R & R WELL SERVICE
Address	Address 42 LYNCH RIDGE
	WALTON, WV 25286
PHONE 304 382 8402	
Well is as follows: Check Rock Pressure Remove all equipment used to produce well incl Gel hole at +/- td2350 Cement 2350 to 2250 Gel 2250 to 1850 Cement 1850 to 1700 over 4 ½ seat Cement 1700 to 1500 Cut and pull 4 ½ at +/- 1200' Cement 100'across cut Cement 1250 to 1050 0r across cut Gel 1050 to 700'	
Cement 700 to 310'across water and 95/8 seat	
	JUN 0 9 2016
gel 310 to 210	
cement 210 to surface	WV Department of Environmental Protection
set monument with Api	Environmentar
Sinature My Kurnely	Date_06/2/4/2016

WR-35 Rev (5-01)

DATE: 11/03/2004 API#: 47-8101271

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

Well Operator's Report of Well Work

Farm name: New River

Operator Well No: #32

LOCATION: Elevation: GL 2409

Quadrangle: Beckley 7.5'

District: Latitude:

Town 2840' County: Raleigh

Feet South of 37 Deg. 50 Min. 00 Feet West of 81

Deg. 10 Min. 00

Sec.

Sec.

Company: Energy Search, Inc

Longitude: 6080'

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 88 Products Lane	13 3/8"	22'	22'	
Marietta, Ohio 45750				
Agent: Mike McCown	9 5/8"	512'	512'	90 sks
Inspector: Rick Campbell				
Date Permit Issued: 5/28/2002	7"	1167'	1167'	175 sks 119
Date Well Work Commenced: 6/13/2002				1
Date Well Work Completed: 6/16/2002	4 1/2"	1823'	1823'	115 sks
Verbal Plugging:				
Date Permission granted on:	1 1/2"		1624'	
Rotary XX Cable Rig				
Total Depth (feet): 2350'				
Fresh Water Depth (ft.): 240' wet; 360' 1" stream				
640' 7" stream		1		
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Open Mine 360'				

OPEN FLOW DATA

Producing formation Ravel	nciiii Pay	zone depth (it) 1624-	1627 - 10 shot
Gas: Initial open flow TSTM	MCF/d Oil:	Initial open flow	Bbl/d
Final open flow water +			
Time of open flow between	en initial and	final tests	_Hours
Static rock Pressure 175	_psig (surfa	ce pressure) after 14	Hours
Second producing formation		Pay zone deptl	n (ft)
Gas: Initial open flow	_MCF/d Oil	: Initial open flow	Bbl/d
Final open flow			Bbl/d
Time of open flow between			_Hours
Static rock Pressure	psig (surfa	ce 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 WHILE IVE LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS

INCLUDING COAL ENCOUNTERED BY THE WELLBORE

Signed:

By: Date:

WW Department of Environmental Protection Environme

06/24/2016

Formation Tops (from KB 2415)

Pride Hot Shale 1541 – 1555
Ravencliff Sand 1615 – 1659
Avis Lime 1669 – 1705
Maxton Sands Not Present
TD 2350

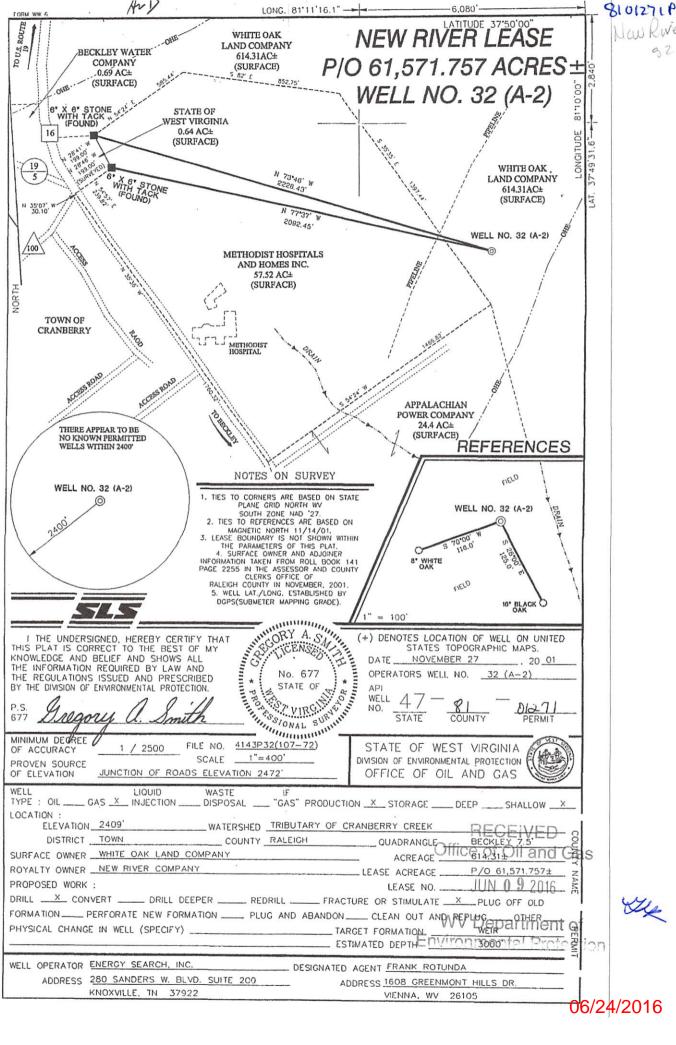
Well appears to be wet with a show of gas

SK

RECEIVED
Office of Oil and Gas

JUN 0 9 2016

WV Department of Environmental Floweren



WW-4A Revised 6-07

1)	Date:	5/1/2016	4947
2)	Operator	's Well Number	
	New R	iver 32	

3) API Well No.: 47 -

081-01271

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

			Beaver Coal co.
			115 ½ Kanawha St. Beckley, WV 25801
(b) Name Address		(b) Coal Ow Name Address P.O.	vner(s) with Declaration Beaver Coal Co LTD
(c) Name Address		Address	-
•	Gary Kennedy P.O. Box 268 Nimitz, WV 25978	Name	see with Declaration
Telephone	Ph. (304) 382 8402	Address	
	(a) Name Address (b) Name Address (c) Name	(a) Name Address White Oak Land Company 63 White Oak Road, Beckley, WV 2580 (b) Name Address (c) Name Address Gary Kennedy P.O. Box 268 Nimitz, WV 25978 Ph. (204) 2020 2422	(a) Name Address White Oak Land Company Address (b) Name Address (b) Name Address (c) Name Address Address Address Gary Kennedy P.O. Box 268 Nimitz, WV 25978 Ph. (204) 200 2100 Name Address (c) Coal Les Name Address 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

Kathryn Shafer 4427 Charleston Road Riplay WV 25271	Its: Address	POBOX 8 RAVENSWOOD, WV 26164
- 1 11-0 0004	Telephone	304-273-5371 RECEIVED

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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 contion business or a part of contion 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-9 (2/15)

API Number	47	-	081		1271	
One	rato	's Well	No	New	Rive	r 32

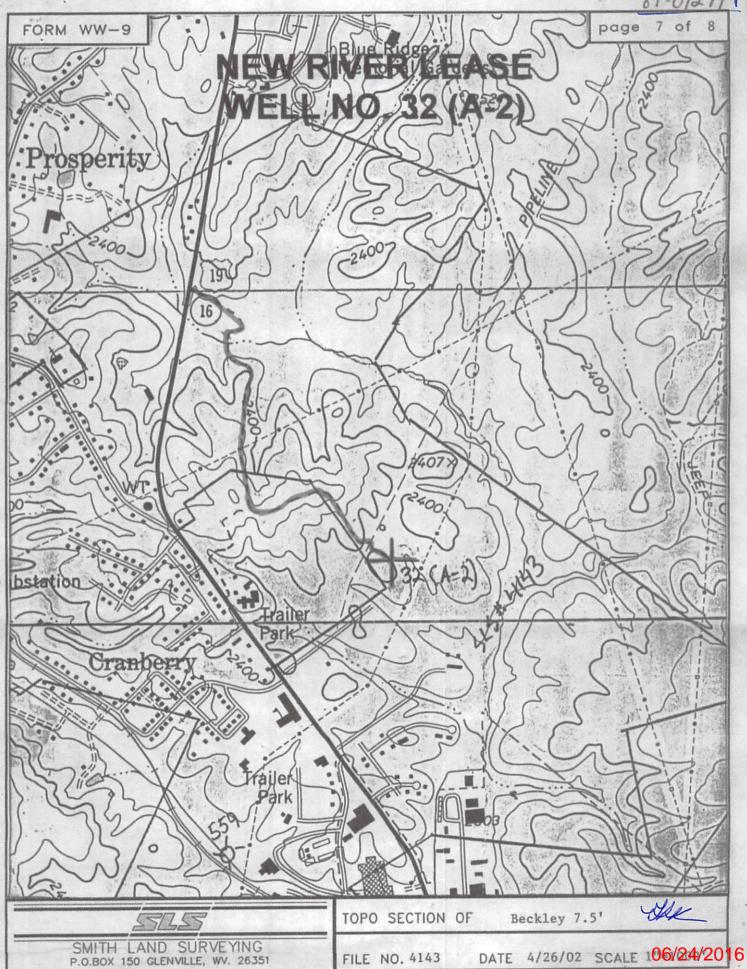
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name	
Watershed (HUC 10) Quad	
Do you anticipate using more than 5,000 bbls of water to complete the pro	
Will a pit be used? Yes No Suc	
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
Land Application Underground Injection (UIC Permit Number_ Reuse (at API Number_ Off Site Disposal (Supply form WW-9 for disposal (Supply for di	posal location)
Will closed loop system be used? If so, describe:	
Drilling medium anticipated for this well (vertical and horizontal)? Air, f	reshwater, 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? (ce	ement, lime, sawdust)
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of any West Virginia solid waste facility. The notice shall be provided within 24 where it was properly disposed.	hours of rejection and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions on August 1, 2005, by the Office of Oil and Gas of the West Virginia De provisions of the permit are enforceable by law. Violations of any term law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examine application form and all attachments thereto and that, based on my obtaining the information, I believe that the information is true, accur penalties for submitting false information, including the possibility of fine Company Official Signature	partment of Environmental Protection. I understand that the n or condition of the general permit and/or other applicable ed and am familiar with the information submitted on this inquiry of those individuals immediately responsible for rate, and complete. I am aware that there are significant
	RECEIVED
Company Official (Typed Name) RENDALL SHEETS Company Official Title Suffering Sufferi	Office of Oil and Gas
Company Official Title	HINLA A COCC
Subscribed and sworn before me this 17 m day of Jun	a , 20 /6 2016
Luchu Shafu	With Pagardment of Profficial Seal
My commission expires 5/9/24	Notary Public, State of West Virginia Kathryn Shafer 4427 Charleston Road Hipley WV 25271

Operator's Well No. New River 32

Proposed Revegetation Treat	tment: Acres Disturbed		Prevegetation Ph	6.0
Lime	2Tons/acre or to correct	t to pH		
Fertilizer type	10-20-20	-		
Fertilizer amount_		500 lbs/acre		
Mulch	2	Tons/acre		
		Seed Mixtures		
Te	emporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre
ENTUCKY FESCUE	4		SAME	
SIKE CLOVER	5			
NUAL RYE	16			
Photocopied section of invol		0		
lan Approved by:	May Kenses	y		
Comments:				
			Office of	CEIVED Oil and Gas
Title: In specte	ان کا Yes (Date:	Office of JUN	Oil and Gas 0 9 2016



FILE NO. 4143

WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELL LOCATIO	
_{API:} 47 081 01271	well no.: New River 32
FARM NAME: Western Pocahor	ntas Properties
RESPONSIBLE PARTY NAME: EXCO	Resources (PA), LLC
COUNTY: Releigh	DISTRICT: Trap Hill
QUADRANGLE: Lester 7.5	
SURFACE OWNER: White Oak La	nd
ROYALTY OWNER: Beaver Coal	
UTM GPS NORTHING: 4186483.4	
UTM GPS EASTING: 483497.4	GPS ELEVATION: 2409
The Responsible Party named above has chose preparing a new well location plat for a pluggi above well. The Office of Oil and Gas will not the following requirements: 1. Datum: NAD 1983, Zone: 17 North height above mean sea level (MSL) 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed D	ng permit or assigned API number on the taccept GPS coordinates that do not meet h, Coordinate Units: meters, Altitude:) – meters.
Real-Time Differ	
Mapping Grade GPS X : Post Processe	
	ifferential RECEIVED
I the undersigned, hereby certify this data is cobelief and shows all the information required by	www.map showing the Well-locate in and Gas orrect to the best of my knowledge and by law and the regulations is under a few sections. WW Department of G/7//6 Title Date