

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Monday, August 15, 2016 WELL WORK PERMIT Vertical / Plugging - 2

EXCO RESOURCES (PA), LLC 260 EXECUTIVE DRIVE

CRANBERRY TOWNSHIP, PA 16066

Re:

Permit approval for 33 (B-8)

47-019-00952-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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) 926-0450.

James A. Mar

Chief

Operator's Well Number: 33 (B-8)

Farm Name: WHITE OAK LUMBER COMPANY U.S. WELL NUMBER: 47-019-00952-00-00

Vertical / Plugging - 2

Date Issued: 8/15/2016

Promoting a healthy environment.

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 within two years of the date of issuance of this permit.

WW-4BRev. 2/01

1)Date	7/	10			,	2016
2)Oper	ator	's				
Well	No.1	New	River	33		
API	Well	No.	47-	019-	009	52
-			-			

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 i	Injection/ Waste disposal/ ground storage) Deep/ Shallow_x
District Plateau Co	Dunloup Creek Dunty Fayette Quadrangle Oak Hill 7.5 Designated Agent Diana Stampler/C.T.Corp. Address 5400 D Big Tyler Road Charleston, WV 25301
Oil and Gas Inspector to be notified 99 Name Terry Urban, PO Box 1207 Address PO Box Clendenin WV 25045 PHONE	
10) Work Order: The work order fo well is as follows: Check Rock pressure Remove all equipment used to produce well	IF IT WAS NEVER PERFORATED
Gel hole TD 1705 as per WR-35	THEN TIH W/ 23/8 TUBING \$ SET 200' CIN PLUG FROM
CEMENT 1705 TO 1605 across TD and Elevation Gel to 1206	PATD.
Cement 1256 to 1156 across 41/2 seat	· GEG HOLE TO 800'.
Freepoint, cut and pull 41/2csg	WITH A'/2" CHSING.
Cement 100'across cut	SET 100' CIA PLUC ACROSS
Gel to 979 to 887 Cement 887 to 787 over 7"csg seat	CASING CUT @ PC 1000'.
Gel to 450'	· SET 100' CIA PLUG ACROSS 7" CASING SEAT FROM 887'- 787
Cement 450 to 200'over coal	. SPOT GEL IF NECESSARY &
Gel to 100'	SET CIA PLUG FROM 420' TO 220'.
Cement 100'to surface	+ SET CIA PLUG FROM 100' TO SORFACE
set monument with proper API	, SET MONUMENT. QWM
set monument with proper API Signature Letyn Lulu	Date 7-18-16
notification must be given to the district of	il and gas inspector 24 hours be $0.8/19/2016$

, and is to begin.

WR-35 Rev (5-01)

DATE: 11/30/2004 API#: 47-1900952

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

Well Operator's Report of Well Work

Farm name: White Oak Lumber Co (New River) LOCATION: Elevation: GL 1801 KB 1808

Operator Well No. New River #33

Quadrangle: Oak Hill

District: Plateau

County: Fayette

Latitude: Longitude:

7720 Feet South of 37 9110 Feet West of 81 Deg. 55 Deg. 07

Min. 00 Min. 30

Sec. Sec.

C------

88 Products Lane, Marietta, Ohio 45750	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address:	13 3/8"	27'	27'	
Agent: Mike McCown	7"	837'	837'	160 sks
Inspector: Rick Campbell		1		TOO BRE
Date Permit Issued: 4/8/2002	4 1/2"	1206'	1206'	90 sks
Date Well Work Commenced: 6/3/2002		1	1	70 513
Date Well Work Completed: 6/5/2002				
Verbal Plugging:				
Date Permission granted on:		1		
Rotary xx Cable Rig		·		
Total Depth (feet):				
Fresh Water Depth (ft.): 90' 1" stream				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N		 		
Coal Depths (ft.): 246-249; 321-323; 397-				

OPEN FLOW DATA

Producing formation	Pay zone dept	h (ft)	Formations:-KB 1808
Gas: Initial open flow	MCF/d Oil: Initial open flow trac		Base Pride Sh 1054
Final open flow	MCF/d Final open flow trace	Bbl/d	Ravencliff 1083-1121
Time of open flow between		Hours	Avis Lime 1121-1149
Static rock Pressure		Hours	TD 1705
			Well has not been frac't
Second producing formation	Pay zone depti	h (ft)	Well is to be plugged
Gas: Initial open flow	MCF/d Oil: Initial open flow	Bbl/d	h.mBBea
Final open flow	MCF/d Final open flow		
Time of open flow between		Hours	
Static rock Pressure		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: Date:

CAPACITY OF 6/4" HOW

. 2131 CFT / GIN FT OF 61/4" HOLE



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 Joe Manchin III, Governor Stephanie R. Timmermeyer, Cabinet Secretary www.wvdep.org

August 23, 2005

FINAL INSPECTION REPORT

WELL PERMIT RELEASED

ENERGY SEARCH INC.,

The FINAL INSPECTION REPORT for the permit, API Well Number: 47-1900952, issued to ENERGY SEARCH INC., and listed below has been received in this office, and reclamation requirements approved. The well designated by the permit number below has been released under reclamation and will remain under your bond.

JAMES MARTIN Chief, Office of Oil and Gas

Operator: ENERGY SEARCH INC.

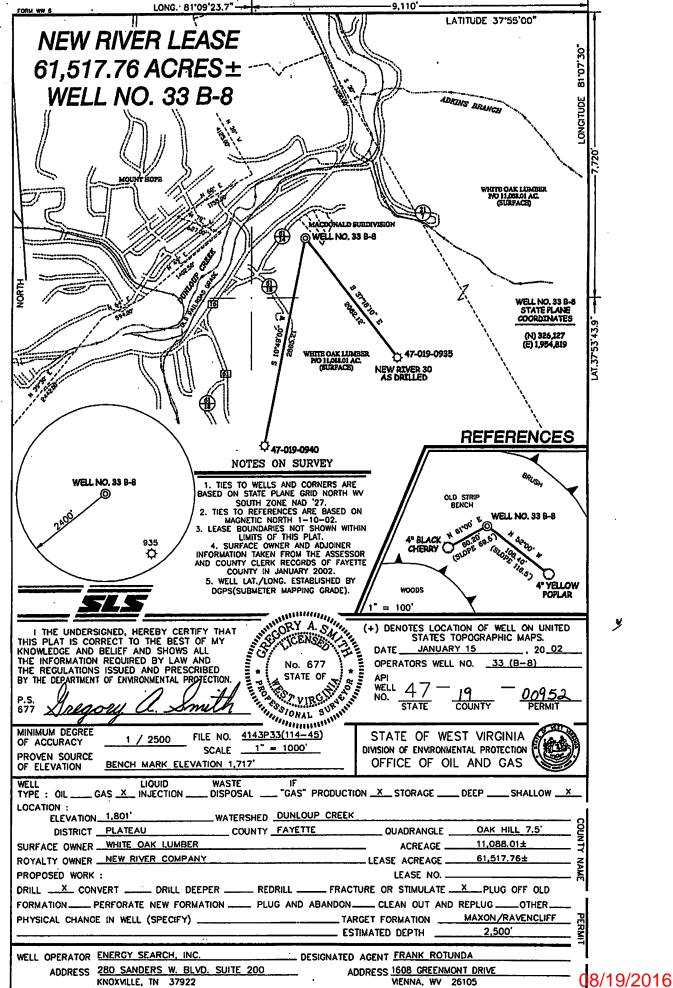
Operator's Well No: 33 (B-8)

Farm Name: WHITE OAK LUMBER COMPANY

API Well Number: 47-1900952

Date Issued: 04/08/2002 Date Released: 08/23/2005

Promoting a healthy environment.

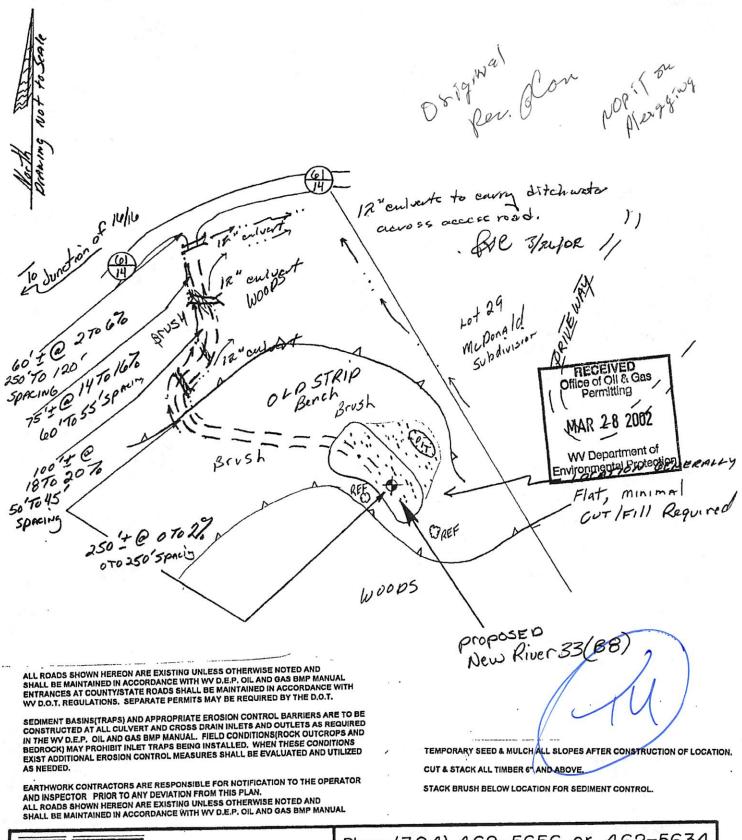


9,110

Form WW-9

NEW RIVER LEASE WELL NO. 33 B-8

19-0095) P page 5 of 7



51.5

SMITH LAND SURVEYING, INC.

P.O. BOX 150, GLENVILLE, WV 26351

Phone (304) 462-5656 or 462-5634

DRAWN BY

DATE 1-11-02 FILE NO. 4143

WW-4A Revised 6-07 1) Date: 7/14 2016
2) Operator's Well Number
New River 33

3) API Well No.: 47 -

019-00952

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

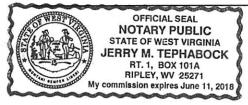
4) Surface	Owner(s) to be served:	5) (a) Coal Operator
(a) Name	Arrow WV, INC>	Meadow Creek Coal Corp., 263 White Oak Dr. Beckley WV 25801 2
Address	%Boy Scouts of America	
	1325 West Walnut Hill Lane, Su	ite S406, Irving TX 75038
(b) Name		(b) Coal Owner(s) with Declaration
Address	Meadow Creek Coal Corp	
	263 White Oak Dr.	
	Beckley WV 25801	
(c) Name		
Address		
6) Ingagatan	Town Links	(c) Coal Lessee with Declaration
6) Inspector	Terry Urban	(c) Coal Lessee with Declaration
Address	PO Box 1207, Clendenin WV 2504	5
Telephon	a 3 04 549 5915	

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
- 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



Well Operator EXCO RESOURCES (PA), LLC

By: Randall Sheets

Its: Production

Address P O BOX 8

RAVENSWOOD, WV 26164

Telephone 304-273-5371

Subscribed and sworn before me this _____ day

Jeny n Testalish

Notary Public

My Commission Expires

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 deprivacyoffier@wv.gov.

		Page of	
API Number	47	019 - 00952	
	Operate	or's Well No.New River 33	

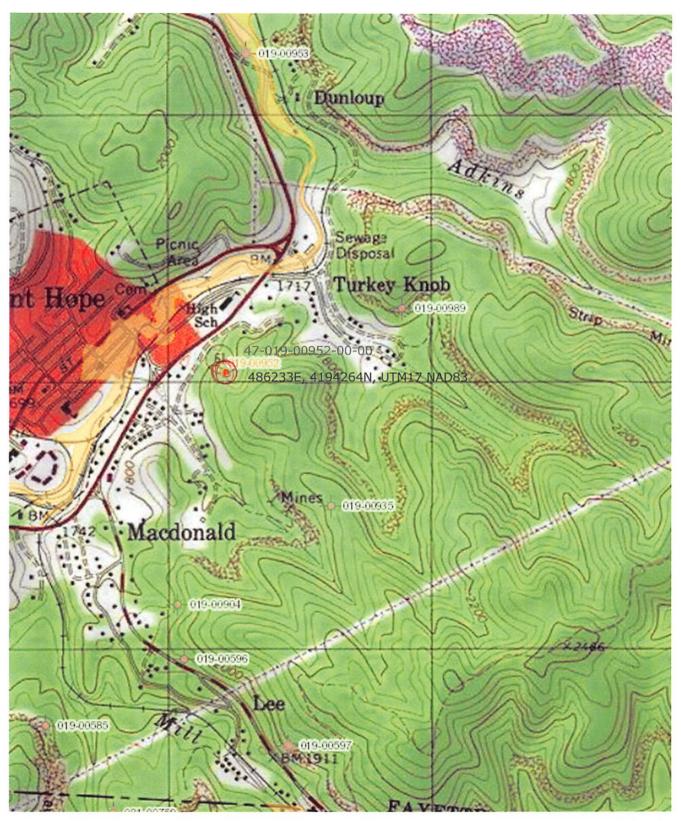
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

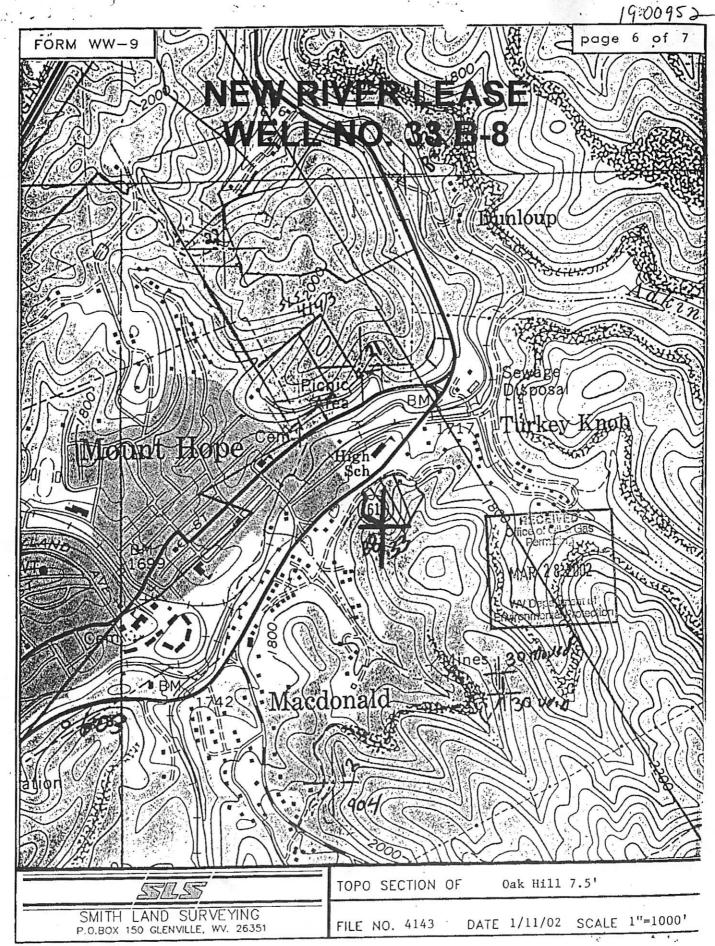
FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EXCO Resources (PA), LLC OP Code 307860
Watershed (HUC 10) Sugar Creek Quadrangle Oak Hill 7.5
Watershed (HUC 10) Sugar Creek Quadrangle Oak Hill 7.5 Elevation 1924 82 County Fayette District Plateau Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Awy well effluent will a pit be used for drill cuttings? Yes No Awy well effluent will be contained in the pit? Yes 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: Land Application Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) — Other (Explain no flluids are expected in return To be collected and Disposed (Off Site)
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 simplificant penaltics. Company Official Signature OFFICIAL SEAL NOTARY PUBLIC STATE OF W. ST VIRGINIA JERRY M. TEPHABOCK RIT. I, BOX 1014 RIPLEY, WY 25721 My commission expire: 2017 My
Subscribed and sworn before me this 1874 day of July , 20 14
Jenn n. Tepholoh Notary Public
My commission expires

Operator's Well New River 33_____

0.5	tment: Acres Disturbed		Prevegetation Ph	6.0
Lime	2Tons/acre or to con	rrect to pH		
Fertilizer type	10-20-20			
Fertilizer amount_		500 lbs/acre		
Mulch		2 Tons/acre		
		Seed Mixtures		
T	emporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre
ENTUCKY FESCUE	40		SAME	
LSIKE CLOVER	5	-		
NNUAL RYE	16	-		
Photocopied section of invo				
Plan Approved by:	lved 7.5' topographic shee	tu		
Plan Approved by:	' - //	tu		
Plan Approved by:	' - //	tu		
Plan Approved by:	' - //	tu		
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Plan Approved by:	Luga blu	Lu		





Pluteau 53/58 WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELL LUCATION	FURM: GFS
_{API:} 47 019 00952	WELL NO.: New River 33
FARM NAME: White Oak Lumber	er
RESPONSIBLE PARTY NAME: EXCO F	
COUNTY: Fayette	DISTRICT: Plateau
QUADRANGLE: Oak HIII 7.5	
SURFACE OWNER: Arrow WV. IN	C.
ROYALTY OWNER: Meadow Cree	ek Coal
UTM GPS NORTHING: 4194264	
UTM GPS EASTING: 0486233 (GPS)) GPS ELEVATION: 1829
The Responsible Party named above has chosen to preparing a new well location plat for a plugging above well. The Office of Oil and Gas will not act the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Control height above mean sea level (MSL) — 2. Accuracy to Datum — 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Difference of the property of the processed Difference of the property of the processed Difference of the processed D	permit or assigned API number on the cept GPS coordinates that do not meet coordinate Units: meters, Altitude: meters.
Real-Time Differen	tial
Mapping Grade GPS X: Post Processed D	ifferential
Real-Time Differ	rential
4. Letter size copy of the topography in I the undersigned, hereby certify this data is correbelief and shows all the information required by I prescribed by the Office of Oil and Gas. Raddll Della Brade Signature	ct to the best of my knowledge and