



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

Friday, August 12, 2016
WELL WORK PERMIT
Vertical / Plugging - 2

EXCO RESOURCES (PA), LLC
260 EXECUTIVE DRIVE

CRANBERRY TOWNSHIP, PA 16066

Re: Permit approval for NEW RIVER 17
47-019-00914-00-00

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. Martin
Chief

Operator's Well Number: NEW RIVER 17
Farm Name: WHITE OAK LMBR,GA PAC COR
U.S. WELL NUMBER: 47-019-00914-00-00
Vertical / Plugging - 2
Date Issued: 8/12/2016

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.

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Office of Oil and Gas

JUL 19 2016

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

WV Department of
Environmental Protection

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

1) Date 7/13, 2016
2) Operator's
Well No. New River 17
API Well No. 47-019-00914

1900914P

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow x

5) Location: Elevation ~~1927~~ 2039 Watershed Sugar Creek
District Plateau County Fayette Quadrangle Oak Hill 7.5

6) Well Operator EXCO Resources (PA), LLC 7) Designated Agent Diana Stamper/C.T.Corp.
Address PO Box 8, Address 5400 D Big Tyler Road
Ravenswood, WV 26164 Charleston, WV 25301

Oil and Gas Inspector to be notified
Name Terry Urban
Address PO Box 1207
Clendenin, WV 25045
PHONE 304 549 5915

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

ASSUMES 7" CTS.

Remove all equipment used to produce well

SPOT GEL PBTD ≈ 1730'

CEMENT FROM 1730' - 1630' WITH CLASS A CEMENT

GEL TO 1029' ± CEMENT FROM 1560' TO 1360'. (COVER PERFS)

FREPOINT, CUT & TOOK W/ 4 1/2" CASING. CUT ≈ 1300'

SET 100' CLASS A CEMENT PLUG FROM 1350' TO 1250'

Cement 1079 to 979

Gel to 465'

Cement 465 to surface to cover coal

set monument with proper API

Get between all plugs

7" Basket
2 gets down
from top
should be
cemented 350545

Signature

Date

notification must be given to the district oil and gas inspector 24 hours before permitted work is to begin.

Work order approved by inspector [Signature]

Date 7-18-16

INDICATES ENOUGH CEMENT WAS RUN TO CEMENT BACK TO SURFACE IF DRILLED THROUGH A COAL PILLAR.

PERMIT INSPECTION AND RELEASE FORM

STARTED/LOCATION: 5-13-00
WORK COMMENCED: 6/5/06
SITE: Lehigh DEPTH: 2200

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Office of Oil and Gas
JAN 03 2001

API: 47- 019 - 0014
WELL NO.: New River # 17
COMPANY: Energy Services
FARM: White Oak, Columbus
COAL DEPTHS

DEPTHS _____
WV Division of Environmental Protection

IS THE OPERATOR KEEPING DETAILED DRILLING AND CEMENT RECORDS: YES [X] NO [] (6 pts) 6

- 1. 1040 feet of 7" pipe on 6-7 cemented with 300 sacks (Circulated) YES [] NO []
- 1. 1210 feet of 4 1/2" pipe on 6-10 cemented with _____ sacks (Circulated) YES [] NO []
- 1. _____ feet of _____" pipe on _____ cemented with _____ sacks (Circulated) YES [] NO []
- 1. _____ feet of _____" pipe on _____ cemented with _____ sacks (Circulated) YES [] NO []

DISCHARGE DATE: _____ TYPE: _____ WEATHER CONDITIONS: _____ LAND: _____

RES. DISCHARGED _____ PIT VOLUME _____ PIT ADDITIVES _____

FIELD ANALYSIS: pH _____ Fe _____ mg/l Cl _____ mg/l D.O. _____ mg/l TOC _____ mg/l

Questions for this report are in accordance of WV Code 22B-1-28, 22B-1-30, 22B-1-6, 22B-1-7, a 3-1-27 and Regulation 38CSR 18-9.2.3, 38CSR 18-12.1, 38CSR 18-16.5, 38CSR 18-16.6.

TOTAL POINTS AVAILABLE FOR QUESTION 2: 2. (10 pts) 8

- Did operator give proper notice to inspector before the following:
 - Construction Yes [X] No [] (2 pts) B. Drilling Yes [] No [X] (2 pts)
 - Pit Treatments Yes [X] No [] (2 pts) D. Pit Discharge Yes [X] No [] (2 pts)
 - Reclamation Yes [X] No [] (2 pts)

Did the operator have permit on site? Yes [X] No [] 3. (4 pts) 4

Was the timber cut, stacked, and brush used for sediment barriers before dirt work started? Yes [X] No [] 4. (4 pts) 4

Are all location and/or road banks being sloped? Yes [X] No [] 5. (4 pts) 4

TOTAL POINTS AVAILABLE FOR QUESTION 6: 6. (21 pts) 18

- Were the following sediment control structures properly installed/maintained?
 - 1. Road Ditches Yes [X] No [] (3 pts) B. Cross Drains Yes [X] No [] (3 pts)
 - 2. Culverts Yes [X] No [] (3 pts) D. Creek Crossings Yes [X] No [] (3 pts)
 - 3. Diversion Ditches Yes [X] No [] (3 pts) F. Barriers Yes [X] No [] (3 pts)
 - 5. Temporary Seeding Yes [] No [X] (3 pts)

Has top soil (if any) been stocked piled? Yes [X] No [] 7. (2 pts) 2

Is the well stake in the proper spot in accordance with 38CSR 18-9.2.3 after construction? Yes [X] No [] 8. (3 pts) 3

- 9. Is the pit properly installed? Yes [X] No []
 - A. Walls Compacted Yes [X] No [], cut Yes [X] No []
 - B. Free of Debris before lining Yes [X] No []
 - C. Lined Yes [X] No []
 - D. Fluids Contained Yes [X] No []
 - E. Free of Non Exempt/Restricted Materials Yes [X] No []
 - F. Properly Treated Yes [X] No []
9. (6 pts) 6

Did inspector approve all modifications Yes [X] No []

- 1. Was inspector on site during the following:
 - A. Construction Yes [X] No [] B. Drilling Yes [] No []
 - C. Pit Treatment Yes [] No [X] D. Reclamation Yes [X] No []

1900914F

WR-35

DATE: SEPTEMBER 29, 2000
API #: 47-19-00914

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Reviewed APR

Well Operator's Report of Well Work

Farm name: NEW RIVER Operator Well No.: 17

LOCATION: Elevation: 1921' Quadrangle: OAK HILL 7.5

District: PLATEAU County: FAYETTE
Latitude: 6080' Feet South of 37 Deg. 55 Min. 00 Sec.
Longitude: 8000' Feet West of 81 Deg. 10 Min. 00 Sec.

Company: ENERGY SEARCH INCORPORATED

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 217 SECOND STREET	13 3/8"	40'	40'	
MARIETTA OH 45750-2109	7"	1029'	1029'	50 SKS
Agent: FRANK R. ROTUNDA	4 1/2"	1764'	1764'	55 SKS
Inspector: RODNEY DILLON				
Date Permit Issued: JANUARY 28, 2000				
Date Well Work Commenced: JUNE 06, 2000				
Date Well Work Completed: JUNE 09, 2000				
Verbal Plugging:				
Date Permission granted on:				
Rotary XX Cable Rig				
Total Depth (feet): <u>2240'</u>				
Fresh Water Depth (ft.): <u>60' -- 1/2" STREAM</u>				
<u>200' -- 1" STREAM</u>				
Salt Water Depth (ft.):				
Is coal being mined in area <input checked="" type="checkbox"/> (Y)?				
Coal Depths (ft.): <u>50'-53', 150'-160', 410'-415'</u>				

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Permitting
NOV 13 2000
WV Division of
Environmental Protection

get notes

OPEN FLOW DATA

Producing formation RAVENCLIFF Pay zone depth (ft) _____
Gas: Initial open flow Show MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 60 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:

John M. Johnston
By: JOHN M. JOHNSTON EXECUTIVE VICE PRESIDENT
Date: SEPTEMBER 29, 2000

(J. Johnston)

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DUMP 500 GALLONS 15% HCl ACID
75 Q FOAM FRAC RAVENCLIFF
WITH 43,278 LBS 20/40 SAND 274,000 ScF/N₂
7,800 ScF/MINUTE N₂ BREAKDOWN AT 1002 PSI²

ISIP 500 psi
ATP 1432 psi
19 BMP

GL 1921
KB 1924
PRIDE SHALE 1440'-1447'
RAVENCLIFF 1447'-1510'
MAXTON-NO SAND

WR-35

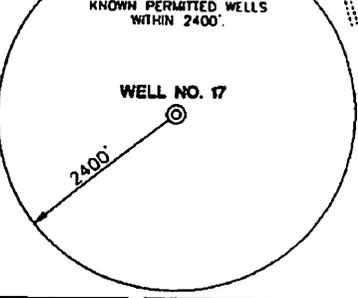
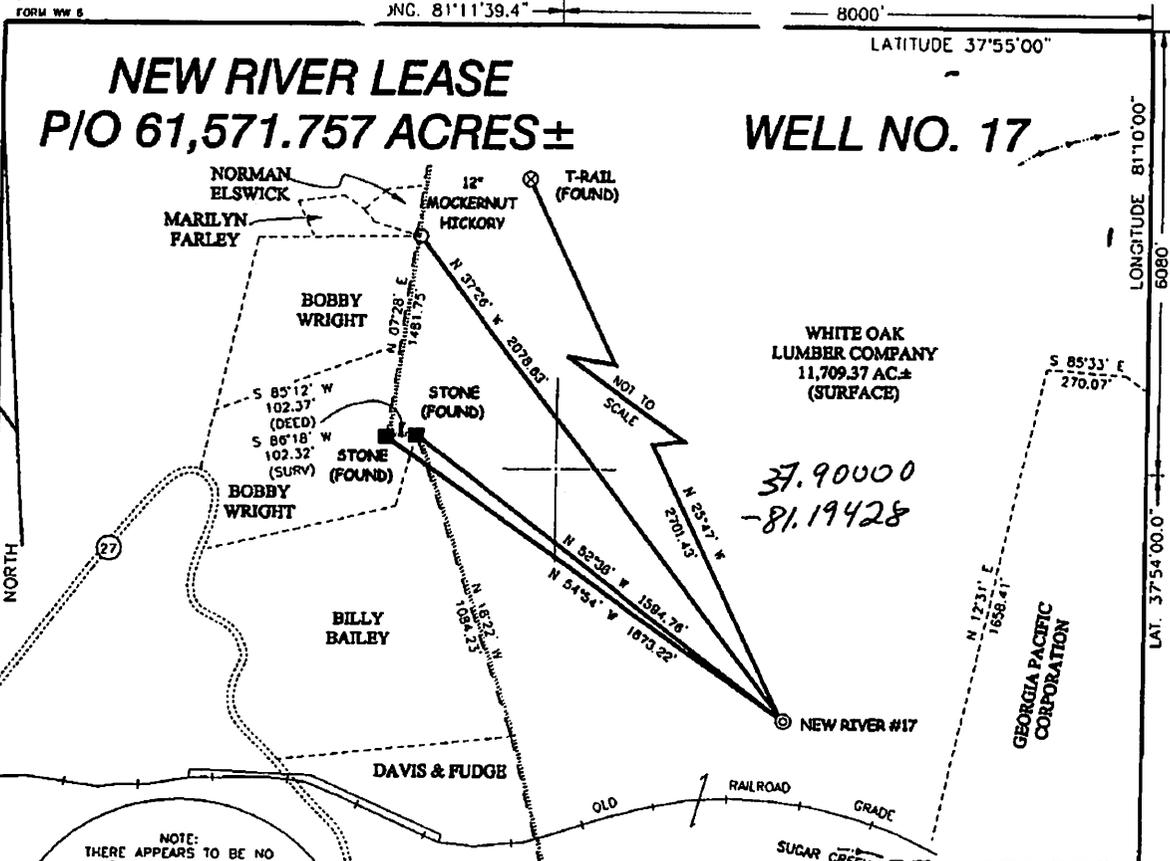
190094A

DUMP 500 GALLONS 15% HCl ACID
75 Q FOAM FRAC RAVENCLIFF
WITH 43,278 LBS 20/40 SAND 274,000 ScF/N₂
7,800 ScF/MINUTE N₂ BREAKDOWN AT 1002 PSI

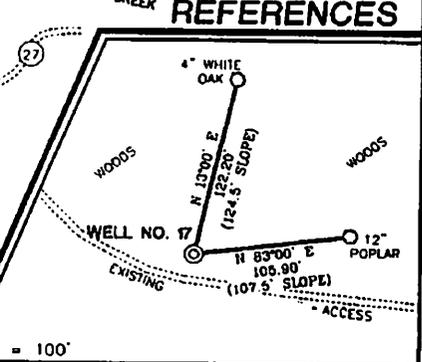
ISIP 500 psi
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1900914P

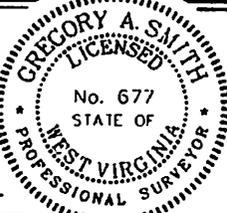


- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 10/22/99.
 3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT OF SURVEY OBTAINED FROM WHITE OAK LUMBER CO. ON 12/16/99.
 4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF FAYETTE COUNTY IN DECEMBER, 1999.
 5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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 ENERGY.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE DECEMBER 20, 19 99
 OPERATORS WELL NO. NEW RIVER 17
 API WELL NO. 47-019-00914
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 4143P17 (80-44)
 PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 2041' SCALE 1" = 500'

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

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

LOCATION : ELEVATION 1921' WATERSHED SUGAR CREEK
 DISTRICT PLATEAU COUNTY FAYETTE QUADRANGLE OAK HILL 7.5'

SURFACE OWNER WHITE OAK LUMBER COMPANY ACREAGE 11,079.37
 ROYALTY OWNER NEW RIVER CO. LIMITED LEASE ACREAGE 61,571.757

PROPOSED WORK : LEASE NO. _____
 DRILL CONVERT DRILL DEEPER 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 RAVENCLIFF/MAXON
 ESTIMATED DEPTH 2300'

WELL OPERATOR ENERGY SEARCH, INC. DESIGNATED AGENT FRANK ROTUNDA
 ADDRESS 280 SANDERS W. BLVD. SUITE 200 ADDRESS 1608 GREENMONT HILLS DR
 KNOXVILLE, TN 37922 VIENNA, WV 26105

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JUL 18 2016

WV Department of Environmental Protection

1900914F

WW-4A
Revised 6-07

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Office of Oil and Gas

1) Date: 7/14 2016
2) Operator's Well Number
New River 17

JUL 19 2016

3) API Well No.: 47 - 019-00914 -

WV Department of Environmental Protection
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served: (a) Name Arrow WV, INC > ✓
 Address %Boy Scouts of America
1325 West Walnut Hill Lane, Suite S406, Irving TX 75038

(b) Name Meadow Creek Coal Corp. ✓
 Address 263 White Oak Dr.
Beckley WV 25801

(c) Name Georgia Pacific Corp. Wood Products ✓
 Address P.O. Box 105681, Atlanta Ga 30348

5) (a) Coal Operator Meadow Creek Coal Corp., 263 White Oak Dr. Beckley WV 25801
 (b) Coal Owner(s) with Declaration _____
 (c) Coal Lessee with Declaration _____

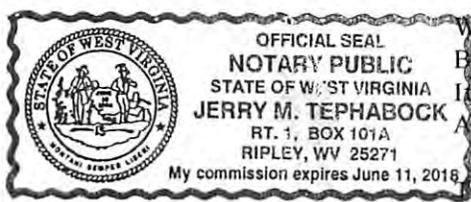
6) Inspector Terry Urban
 Address PO Box 1207, Clendenin WV 25045
 Telephone 304-549-5915

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
- (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 Chief



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

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Office of Oil and Gas
JUL 19 2016

Subscribed and sworn before me this 18th day of July
Jerry M. Tephabock Notary Public
 My Commission Expires 6/11/18

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.

WV Department of Environmental Protection

JUL 19 2016

WV Department of
Environmental Protection

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

Elevation 4921 2039 County Fayette District Plateau

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

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:

NO LAND DISPOSAL

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain no fluids are expected in return To be collected and Disposed OF OFF-SITE)

ANY WELL EFFLUENT WILL BE
CONTAINED IN TANKS BEFORE DISPOSING
OF OFF-SITE J.M.

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? _____

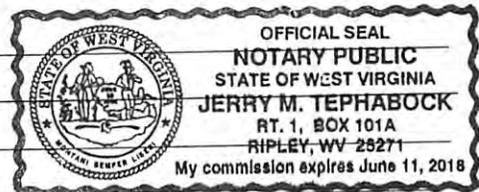
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the permit, or any other 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 submitting 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 D Sheets

Company Official (Typed Name) Randall Sheets

Company Official Title Production Supervisor



Subscribed and sworn before me this 18th day of July, 2016

Jerry M. Tephabock Notary Public

My commission expires 6/11/18

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation Ph 6.0
0.5 _____

Lime _____ 2Tons/acre or to correct to pH 6.5

Fertilizer type _____ 10-20-20

Fertilizer amount _____ 500 lbs/acre

Mulch _____ 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
KENTUCKY FESCUE	40
ALSIKE CLOVER	5
ANNUAL RYE	16

Seed Type	lbs/acre
SAME	

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *[Signature]*

Comments: _____

Title: *Inspect Oil & Gas*

Date: *7-18-16*

Field Reviewed? () Yes () No

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Office of Oil and Gas

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1900914

ING AND FISHING AREA
Picnic Area
T. RECEIVED A
Office of Oil and Gas

JUL 19 2016

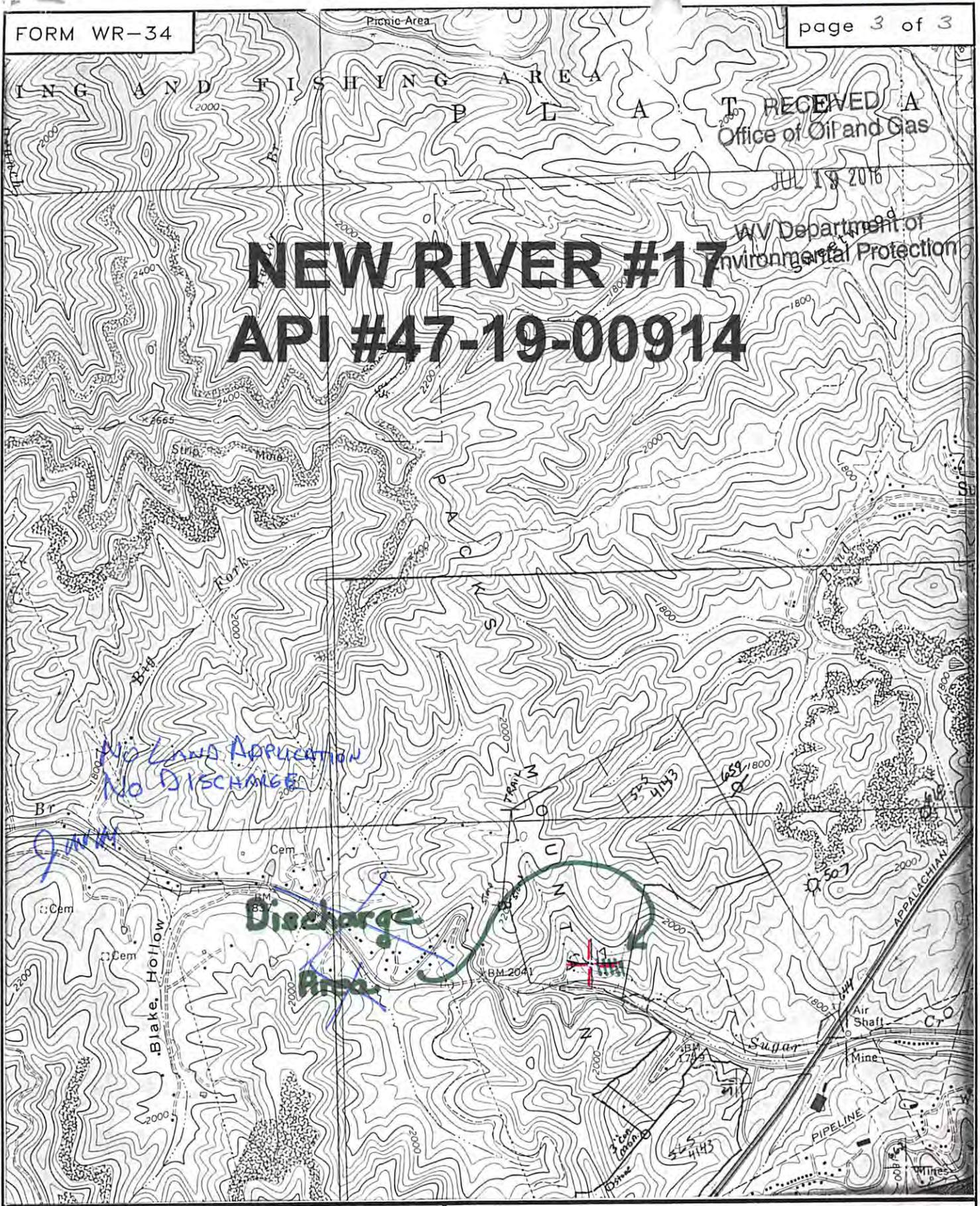
WV Department of
Environmental Protection

NEW RIVER #17 API #47-19-00914

*No LEADS APPLICATION
No DISCHARGE*

9/14/16

**Discharge
Area**



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

TOPO SECTION OF OAKHILL 7.5'

FILE NO. 874 P DATE 10/9/00 SCALE 1" = 2000'

1900914P

WW-7
8-30-06



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

API: 47 019 00914 WELL NO.: New River 17

FARM NAME: White Oak Lumber

RESPONSIBLE PARTY NAME: EXCO Resources (PA), LLC

COUNTY: Fayette DISTRICT: Plateau

QUADRANGLE: Oak Hill 7.5

SURFACE OWNER: Arrow WV. INC.

ROYALTY OWNER: Meadow Creek Coal

UTM GPS NORTHING: 4194754

UTM GPS EASTING: 0482925 (GPS) GPS ELEVATION: 2039'

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.

Randall D. Steiner
Signature

Production Supervisor
Title

7/18/16
Date