

### 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

September 19, 2014

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-8100591, 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: AR-9

Farm Name: NEW RIVER CO.

API Well Number: 47-8100591

Permit Type: Plugging Date Issued: 09/19/2014

## **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.

WW-4B Rev. 2/01

1) Date	, 20
2) Operator's Well No. No	
3) API Well N	

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

		ERMIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liq	uid injection/ Waste disposal/
	(If "Gas, Production or	Underground storage/ Deep/ Shallow X
-1	Location: Elevation 2356	Watershed Cramberry Creek
5)	District Town 6	County Raleigh & Quadrangle Beckley 7.5 234
	DISCITOC	
6)	Well Operator Exco Resources (PA), LLC	7) Designated Agent Diana Stampler
47	Address PO Box 8	Address CT Corporation Systems
	Ravenswood, WV 26164	5400 D Big Tyler Rd, Chas, WV 25301
8)	Oil and Gas Inspector to be notified Name Gary Kennedy	9) Plugging Contractor Name R&R Well Service
	Address PO BOX 268	Address 4026 Clay Rd.
	Nimitz, WV 25978	Spencer, WV 25276
10)	Well was plugged back to 1371"upon drilling. RIH ch Gel. Rig up and pump 30 sks Class A ce	ment from TD to 971, WOC for 8hrs.  I additional class A cement to achieve 971' TOC
10)	Well was plugged back to 1371"upon drilling. RIH che Gel. Rig up and pump 30 sks Class A ce RIH tag top of cement at 971', add and RIH, freepoint and cut 4 1/2 csg at RIH with tubing to +or- 945'and pump 35 s	ment from TD to 971, WOC for 8hrs.  I additional class A cement to achieve 971' TOC +or - 945' and pull 41/2 casing the solution of the soluti
10)	Well was plugged back to 1371"upon drilling. RIH che Gel. Rig up and pump 30 sks Class A ce RIH tag top of cement at 971', add and RIH, freepoint and cut 4 1/2 csg at RIH with tubing to +or- 945'and pump 35 sks class A cement 50	ment from TD to 971, WOC for 8hrs.  I additional class A cement to achieve 971' TOC  +or - 945' and pull 41/2 casing  ks of class A cement 945' to 768", pull tubing to 500'  190' to 323' pull tubing to 180' and pump 35 sks class A
	Well was plugged back to 1371"upon drilling. RIH che Gel. Rig up and pump 30 sks Class A ce RIH tag top of cement at 971', add and RIH, freepoint and cut 4 1/2 csg at RIH with tubing to +or- 945'and pump 35 s Rig up and pump 35 sks class A cement 50 cement 180'to surface.	ment from TD to 971, WOC for 8hrs.  I additional class A cement to achieve 971' TOC  +or - 945' and pull 41/2 casing  ks of class A cement 945' to 768", pull tubing to 500'  190' to 323' pull tubing to 180'and pump 35 sks class A  BECKLEY COAL WITH CLASS A CEMENT
	Well was plugged back to 1371"upon drilling. RIH che Gel. Rig up and pump 30 sks Class A ce RIH tag top of cement at 971', add and RIH, freepoint and cut 4 1/2 csg at RIH with tubing to +or- 945'and pump 35 s Rig up and pump 35 sks class A cement 50 cement 180'to surface.	ment from TD to 971, WOC for 8hrs.  I additional class A cement to achieve 971' TOC  +or - 945' and pull 41/2 casing  ks of class A cement 945' to 768", pull tubing to 500'  19 0' to 323' pull tubing to 180' and pump 35 sks class A  BECKLEY COAL WITH CLASS A COMMENT
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## State of Mest Hirginia

Department of Mines Bil und Gas Bivision

REVISED 7/14/83	
Date July 22, 1982	
Operator's	
Well No. #9 - AR	_
Farm New River	_
APT No. 47 - 081 - 591	

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE / Gas x / Liquid Injection / Waste Disposal WELL TYPE: (If "Gas," Production x / Underground Storage / Deep / Shallow x /) Watershed Cranberry Creek Elevation: 2356' Quadrangle Beckley 75' District: Town County Raleigh COMPANY Peake Operating Company Cement Used in Left ADDRESS 423 Charleston Natl Plaza, Charleston, Casing fill up WV 25301 DESIGNATED AGENT Floyd B. Wilcox Drilling in Well Cu. ft. Tubing ADDRESS Same Size 20-16 SURFACE OWNER New River Land Co. 3 SKS 11 Cond. ADDRESS Mt. Hope, WV 13-10" MINERAL RIGHTS OWNER same 9 5/8 ADDRESS same 8 5/8 OIL AND GAS INSPECTOR FOR THIS WORK D. Craig 7 9001 9001 250 355 Duckworth ADDRESS Mt. Lookout, WV 5 1/2 April 1, 1982 PERMIT ISSUED 13711 45 5/cs 4 1/2 DRILLING COMMENCED June 21, 1982 3 DRILLING COMPLETED June 24, 1982 2 3/8 1350' IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR Liners REWORKING. VERBAL PERMISSION OBTAINED used ON Depth 2421 -2661 feet KB GEOLOGICAL TARGET FORMATION Big Lime feet Rotary x / Cable Tools\_ Depth of completed well 2661 KB Water strata depth: Fresh 150' feet; Salt\_ feet Is coal being mined in the area? NO Coal seam depths: OPEN FLOW DATA Pay zone depth1259 - 1342 feet KB Producing formation Ravencliff Mcf/d Oil: Initial open flow Bbl/d Gas: Initial open flow 900 Bbl/d Final open flow 660 Final open flow Mcf/d 3 hrs Time of open flow between initial and final tests 3 hours Static rock pressure 165 psig(surface measurement) after 21 hours shut in

Mcf/d

Time of open flow between initial and final tests

Static rock pressure psig (surface measurement) afterwy Dept. ohours a shuteriention

(If applicable due to multiple completion--)

Second producing formation

Gas: Initial open flow\_\_\_\_

Final open flow\_

hours Office of Oil and Gas

Pay zone depthReceivered

Oil: Initial open flow

Mcf/d Oil: Final open flow ANG 4-3 Bbl/d

Bbl/d

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Well was not stimulated.

WR-35

#### WELL LOG

Depths from DF 4' above GL ORMATION COLOR HARD OR SOF	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & shale	0	971	Water at 150' 1 gal/min.
Sandstone	971	1010	mak.
Sandy shale	1010	1066	(Marry)
Princeton	1066	1123	
Shale	1123	1259	
Ravencliff	1259	1342	Gas Checks: 1270' smell of gas, TST
Shale	1342	1360	1323' 116/10 W 2" = 452 MCF
Avis Lime	1360	1396	1352' 4/10 in 6-3/8" = 900 MCF
Sand & shale	1396	2264	1798' 4/10 in 6-3/8" = 900 MCF .
Little Lime	2264	2362	1832' 4/10 in 6-3/8" = 900 MCF
Pencil Cave	2362	2421	2440' 20/10 M 2" = 696 MCF
Big Lime	2421	2661	2590' 20/10 M 2" = 696 MCF
TD	2661		2661' 20/10 M 2" = 696 MCF
		- 2	
		1	

(Attach separate sheets as necessary)

we

Peake Operating Company

09/19/2014

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including eval, encountered in the drilling of a well."

AUG 13 MIA

Office of Oil and Gas of of Emittennic tal Protection

LONGITUDE 81 70 00"

NORTH

NEW RIVER COMPANY SURFACE & MINERAL GAS WELL GAR 9AR GAS WELL NEW RIVER CO. MON 1976 NEW RIVERCO. MON 1977 1976-1977 N 49°31'E 91.78 TOPO LOCAN 1976 TO WELL PAR NTO 14'40"E 1489.869 1977 TO WELL PAN NG9 04'08'E 1576.094 NEW RIVER COMPANY CO-ORDINATES N-11222.48806 E. 9524.429709

PROPOSED BAR

OPROPOSED MAR

FILE NO .. DRAWING NO .. SCALE 1-2000 MINIMUM DEGREE OF ACCURACY 1-1000 PROVEN SOURCE OF ELEVATION 2328

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE KNOWLEDGE AND BELIEF AND BEST OF MY THE INFORMATION REQUIRED SHOWS ALL THE REGULATIONS ISSUED BY LAW AND BY THE DEPARTMENT OF AND PRESCRIBED MINES. mani ( SIGNED)

W. BOW NO. 735 STATE

LOCATION OF (+) DENOTES WELL ON UNITED STATES TOPOGRAPHIC MAPS FORM IV-6 (8 - 78)



R. D.E

Department of Mines Oil & Gas Division

19 82 DATE 2/27 OPERATOR'S WELL NO .. API WELL NO. 47 -COUNTY PERMIT STATE

L.L.S. 736

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL PECEIVED RECEIVED RECEIVED LOCATION: ELEVATION STORAGE DEEP SHALLOW PRODUCTION STORAGE
DISTRICT TOWN  QUADRANGLE BECKLEY 7/2'  QUADRANGLE BECKLEY 7/2'  QUADRANGLE BECKLEY 7/2'  QUADRANGLE BECKLEY 7/2'
QUADRANGLE BECKLEY 7/2'
SURFACE OWNER NEW RIVER COMPANY ACREAGE 61,571 09/19/201
OIL & GAS ROYALTY OWNER VEW KINER COMPANY LEASE ACREAGES WV Dept. of Environmental Protection
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
PLUG AND ABANDON CLEAN OUT AND REPLUG
ADDRESS 201 DUNBAR OFFICE PARK ADDRESS 201 DUNBAR OFFICE PARK  DUNBAR WEST VIRGINIA DUNBAR WEST VIRGINIA
MIN DOL WEST ALBERT



## Peake Operating Company

201 Dunbar Office Park Dunbar, WV 25064 Tel: (304) 766-6133

### DRILLING REPORT

New River #9-AR Well Raleigh County, WV.

Spud Date: June 21, 1982 - 9:00 am.

- June 22 Drilled to 11' and set 12 3/4" conductor pipe. Used 3 sacks of Portland cement. At 150' hit water; 1 gallon per minute. Hit coal seam at 180' and changed bits to 8 3/4" to reduce the hole. Drilling at 500' as of 8:00 am with 12 1/4" bit.
- June 23 Drilled to 911' using 8-3/4" bit. Ran 900.50' of 7". Cemented with 150 sacks of 50/50 POZ and 100 sacks of Neat cement. Set plug at 869.45' and waiting for cement to set.
- June 24 Samples showed Ravencliff as follows: top at 1264' Gas check at 1270' smell of gas, too small to measure. Tripped the hole at 1323' to change  $6\frac{1}{2}$ " bits. Gas check at 1323' showed 116/10 2" W = 452,000 cu. ft. Base of Ravencliff at 1346'. Gas check at 1352', after 25 minutes showed 4/10 in 6/38" W = 900,000 cu. ft. At 8:00 am drilling at 1577' with a  $6\frac{1}{2}$ " bit.
- June 25 Sample showed Blue Maxton 1797-1830'. Gas check at 1798' and 1832' showed 4/10 in 6/38" W = 900,000 cu. ft. Top of Big Lime at 2431'. Gas check at 2440' 20/10 2" M = 696,000 cu. ft. Gas check at 2590' showed 696,000. At 8:00 a.m. drilling at 2590' with 6-1/2" bit.
- June 26 Drilled to TD at 2661'. Gas check at 2661' showed 20/10 2" M= 696,000 cu. ft. Scheduled Schlumberger for 2:30 pm., on location at 1:30 pm. Began logging at 3:30 pm. Ran Gamma-ray, Density, Temperature, and Induction logs. Logs showed Ravencliff from 1259' to 1342'. 30' less than 2.50 porosity. Blue Maxton shaled out. Big Lime porosity gone. Released Schlumberger at 10:30 pm. Shut well in. Did not run 4½". Will run tubing with Tally rig next week. Keen shut down for the weekend.
- July 17 Ran 2-3/8" tubing to 1350 plus feet. Took 3 hours to run tubing, gas gauged 660,000 through 2-3/8" at end of job. Rock pressure 165#.
- Aug. 17 Opened well at 1:15 pm. Tubing 175 psi, head 160 psi.

Office of Oil and Gas
Office of Oil and Gas
Office of Environmental Protection

New River #9-AR Well Raleigh County, WV. Drilling Report - Page 2

of 4½" tubing. Cemented with 45 sacks of RFC, 25#

Feb. 15 - Ran 1371' of 4½" tubing. Cemented with 45 sacks of RFC, 25# cela flakes and 5 bbl's of gel.

Feb. 17 - McCullough on location at 8:00 am. Logged hole twice because of bad tool on first log run. Bond log showed TD at 1356' and 100% bond from TD to 950'. Swabbed 500' of fluid off well and perforated the Ravencliff as follows:

1307- 1312	2 holes/ft.	10 holes
1312-1316	4 holes/ft.	16 holes
1316-1317	2 holes/ft.	2 holes
1320-1321	2 holes/ft.	2 holes
1321-1323	4 holes/ft.	8 holes
1323-1324	2 holes/ft.	2 holes
1324-1326	4 holes/ft.	8 holes
1326-1328	2 holes/ft.	4 holes
34042011307130		52 holes total

All shots fired. Swabbed hole dry and shut well in. Well making some gas after perforating.

- Feb. 18 Rock pressure 150#. Fraced--got in 270 bbls. water. Used 15,000# of 80/100 sand; 45,000# 20/50; Volume 8#/gal. Average treating pressure 1700#. No breakdown pressure. Went right ahead treating all the way through. Used 7 bbls. water/min. 484,000# nitrogen. Instant shut-in pressure 1500#; after 15 minutes 1300#.
- Feb. 20 After open 45 hours, making 793,000 cu. ft. Head had 65#. Blowing slight mist.
- Mar. 31 Tubing pressure 165#, head pressure 167#.
- May 3 Tubing pressure 170#, head pressure 175#. At 3:00 pm. no water, little sand,
- Sept. 28 Tubing pressure 172#. Head pressure 172#. Well blew lots of sand. Open 1 hour. 86/10 M 2" = 1,443,000 cu. ft.

Pleceived

Alls 13 All

WW-4A Revised 6-07

1) Date:			
2) Operator's Well Numb	oer W RIVER AR-9		
3) API Well No.: 47 -	081	0591	

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

(a) Name	New River Hardwoods	Name	
Address	PO BOX 7290	Address	
	Beckley WV 25801	# # # # # # # # # # # # # # # # # # #	-
(b) Name		(b) Coal Owner(s) with Declaration	1 /
Address		Name Boone East Development C	Co
11441000		Address Po Box 261	
		Julian Wv 25529	
(c) Name		Name	
Address		Address	
6) Inspector	Gary Kennedy	(c) Coal Lessee with Declaration	
Address	PO Box 268	Name	
	Nimiyz, WV 25978	Address	
Telephone	304 382 8402		

### 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 Chief.

A SEED	OFFICIAL SEAL NOTARY PUBLIC	By: Its:	Production Superintender	ates	
The A	STATE OF WEST VIRGINIA	Address	PO. BOX 8,		
" Section !	SHELLY WELLING BR 1, Box 120	1	Ravenswood WV 26164		11/00
My	Given, Mest Virginia 25245	Telephone	304 272 5371		Received
Subscribed	d and sworn before me th	7	day of lug	2014 Notary Public	AUG (3
100	ission Expires	1/19/18			Office of Oil and Gas WV Dept. of Environmental Protection

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.



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Office of Oil and Gas WV Dept. of Environmental Protection WW-9 Rev. 5/08

	Page		of	
API Number 47 -	081		0591	
Operator's Well N	O. New Riv	ver AR	-9	

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

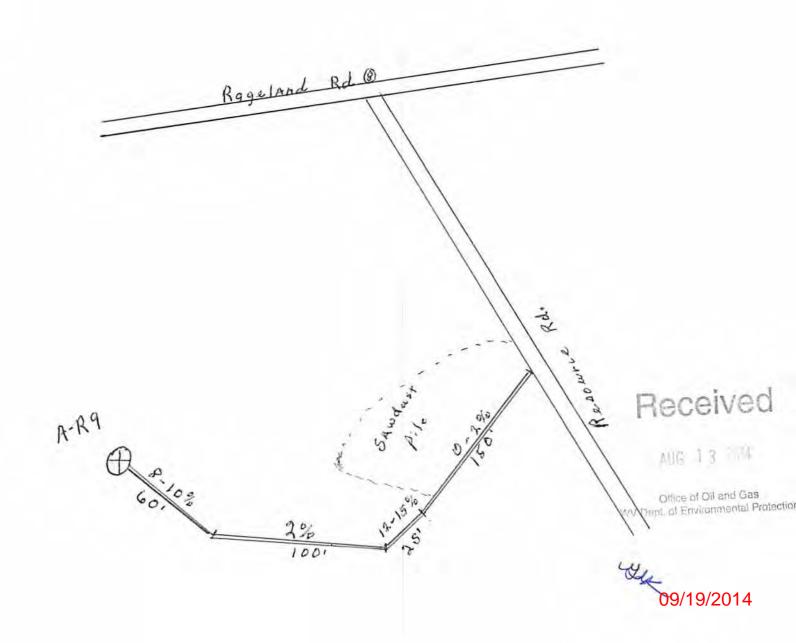
Operator Name	EXCO Resources (	PA), LLC		0	P Code 30786	0	
Watershed Cra	anberry Creek		Quadra	angle Beck	dey 7 1/2		
Elevation 23	56'	County Raleigh			District Town		
		ement, Gel, H2O					
Vill a syntheti	ic liner be used in the pit?	Steel Pit	K				
roposed Disp	osal Method For Treated I	Pit Wastes:					
	Land Applica						1
		Injection (UIC Permit	Number				
	Reuse (at AP	Number	or let it				
	Off Site Disp	osal (Supply form WW	V-9 for di	sposal locati	ion)		
	X Other (Expla	n Haul by EPC to Marie	etta, OH	of Teel	ATT		
					1		
Proposed Wor	k For Which Pit Will Be U	Jsed:					
7000	Drilling	-		Swabbing			
	Workover		X	Plugging			
	Other (Expla	in					
I cer application fo obtaining the penalties for s	tion can lead to enforcementify under penalty of law orm and all attachments information, I believe the submitting false information ficial Signature	that I have personally thereto and that, based at the information is tr n, including the possibil	i on my	rate, and co	mplete. I am a	is immedi	lately responsible it
Company On	ficial (Typed Name) Rar	idall sheets					T Suffer D
Company Off	ficial (Typed Name)		1 1			H	eceive
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company on							Vicinia via more
			1				AUG - 3- DIA
6.1	nd sworn before me this	7day of(	1110		, 20 /	7	
Subscribed ar	nd sworn before the this	day or	1				Office of Oil and Gas
(/1	My 1 July		U				pt. of Environmental Pr
In	lly cilling				Notory Pub	olic	
7							
		1-			-		DESIGNAL DEAL
	11/10	119					OFFICIAL SEAL OTABY PUBLIC
My commissi	ion expires /1/19	/18			San	N	OFFICIAL SEAL OTARY PUBLIC OF WEST VIRGINIA
My commissi	ion expires /1/19	/18				STATE	OTARY PUBLIC OF WEST VIRGINIA ELLY WELLING
My commissi	ion expires /1/19	/18				STATE	OTARY PUBLIC OF WEST VIRGINIA

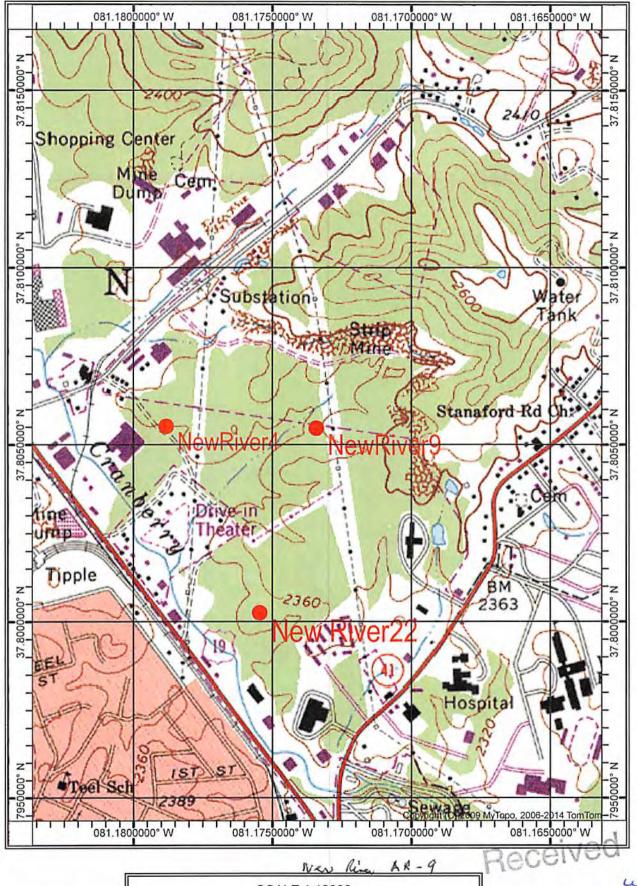
	LEGEND
Property Boundary	Diversion Willest Hallest Hall Hallest Hall
Road = = = = = = = = = =	Spring -
Existing Fence — X — X — X —	Wet Spot &
Planned Fence / / /	Drain Pipe with size in inches (3)
	→ Waterway ← ← ← ← ← ←
Open Ditch	Cross Drain 7/1/1/1/1/1/1/1/
Rock & SEESE	Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
oposed Revegetation Treatment: Acres Disturbed	1 Prevegetation pH
Lime 2Tons/acre or to cor	rrect to pH 6.5
LimeTolls acre of to cor	
Fertilizer (10-20-20 or equivalent) 500	lbs/acre (500 lbs minimum)
Mulch 2	Tons/acre
Miles	Seed Mixtures
Acces 1	Area II
Area I Seed Type lbs/acre	Seed Type lbs/acre
(Y 31 fescue 40	Same as area one
Alsike Clover 6	
Annual Ryed 12	
Attach: Drawing(s) of road, location,pit and proposed area for the section of involved 7.5' topographic should be section of the section of th	
hotocopied section of involved 7.5' topographic she	
hotocopied section of involved 7.5' topographic she	
hotocopied section of involved 7.5' topographic she	Received
hotocopied section of involved 7.5' topographic she	Received  ANG 18 2014  Office of Oil and Gas
rawing(s) of road, location,pit and proposed area for hotocopied section of involved 7.5' topographic should be section of involved 8.5' topographic should be section	Received

WW-9

New River AR-9

HT 081 0591





SCALE 1:12000

1000 2000 3000

FEET

Office of Oil and Gas

Office of Environmental Protection

Wy Dept. of Environmental Protection

Og/19/2014

WW-7 8-30-06



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

WELL LOCATION FORM: GPS
API: 47-081-0591 WELL NO .: AR-9
FARM NAME: New River
RESPONSIBLE PARTY NAME: Suco Resources
COUNTY: Ralers DISTRICT: 100 N
QUADRANGLE: Beile 7.5
SURFACE OWNER: 1 - en River Hordwoods
ROYALTY OWNER:
UTM GPS NORTHING: 4184 243. 2
UTM GPS EASTING: 484730.4 GPS ELEVATION: 2356
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  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.    Modelle Solambel   Modelle Solambel   Date   Date
Received  Received

19/19/201*4*