

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

December 16, 2013

WELL WORK PERMIT

Rework/Solution Mining

This permit, API Well Number: 47-5100313, issued to EAGLE NATRIUM 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Mart

Chief

Operator's Well No: 9 BRINE WELL (PPG IND. INC.)

Farm Name: AXIALL CORPORATION

API Well Number: 47-5100313

Permit Type: Rework/Solution Mining

Date Issued: 12/12/2013

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. This permit is being conditioned to address the possibility of flooding in the area of this well. Any tanks stored on this location must be securely anchored in cement to prevent the loss of tanks should a flood occur. In addition, cages must be placed around the well head to prevent debris from damaging the well head.

WW - 2B (Rev. 8/10) 400000 4325 \$40000

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

WELL WORK PERMIT APPLICATION

03 509 1) Well Operator: Eagle Natrium LLC New Martinsville Franklin 39600 Marshall District Quadrangle Operator ID County 2) Operator's Well Number: #9 Injection Well (FRESH WATER)3) Elevation: 624.5 4) Well Type: (a) Oil____ or Gas Brine Production / Underground Storage _____ (b) If Gas: Deep / Shallow 5) Proposed Target Formation(s): Salina Proposed Target Depth: 6714' Formation at Proposed Total Depth: Salina 6) Proposed Total Depth: 6835.5 Feet 7) Approximate fresh water strata depths: 50' 8) Approximate salt water depths: 1050' to 1750' RECEIVED 9) Approximate coal seam depths: 256' to 261' 10) Approximate void depths,(coal, Karst, other): N/A 11) Does land contain coal seams tributary to active mine? 12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed) See attached documents

13) <u>CASING AND TUBING PROGRAM</u>

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

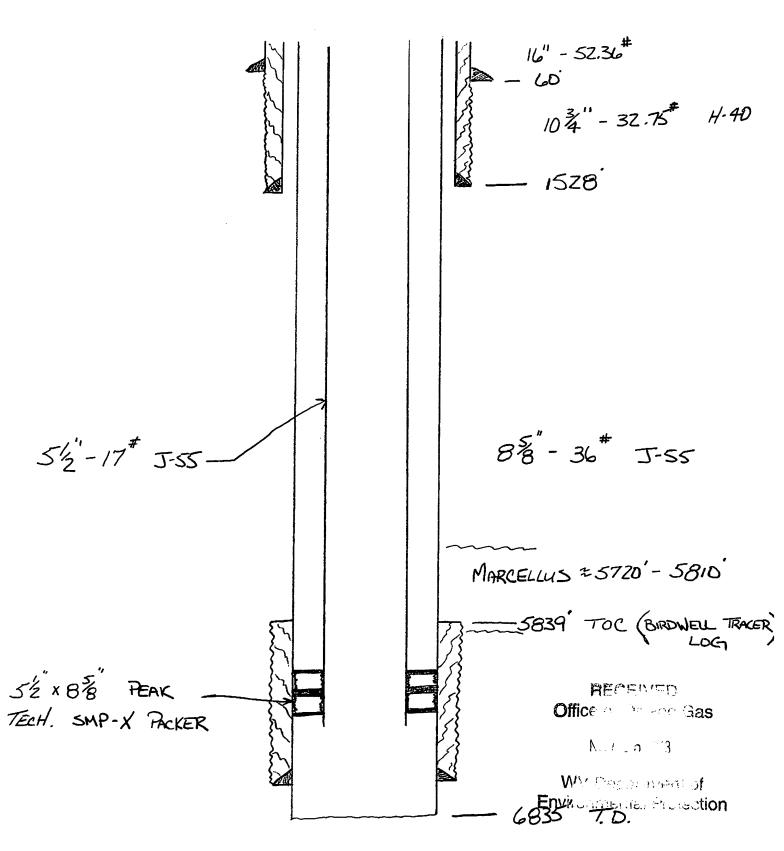
TYPE	SPECIFIC	AHONS		FUUTAGE	INILITYALC	CLIVILIA
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	16"				60'	
Fresh Water						
Coal	13 3/8"	H-40	48lb.		441'	
Intermediate	10 3/4"	H-40	32.75lb.		1528'	530 sacks
Production	8 5/8"	J-55	36lb.		6804'	400 sacks
Tubing						
Liners	5 1/2"	J-55	17lb.		6264'	

Packers: Kind: Peak Technology SMP-X

Sizes: 5 1/2" in 8 5/8"

Depths Set 6350'

12/13/2013



Procedure to Remediate #9 Injection Well OF FRESHWATER ONLY

- 1. Set plug in 5 ½" liner at 6270'.
- 2. Chemical cut the 5 1/2" liner at 6260'.
- 3. Remove 5 1/2" liner.
- 4. Pick up 8 5/8" casing scraper w/ bit and clean ID of casing to 6260'.
- 5. Perform bond log to verify top of cement location.
- 6. Run spinner log to locate existing hole in 8 5/8" casing.
- 7. Attempt injection test down 8.625" csg. Pressure not to exceed 800 psi.
- 8. Perfore High resolution Vertilog test to determine casing integrity.
- 9. If necessary shoot an additional 4 squeeze holes at point determined from log. (est. 5790')
- 10. TIH with 2.875" work string and 8.625" cement retainer.
- 11. Set retainer at approx. 5720'.
- 12. Circulate Flourescent dye to calculate annular volume.
- 13. Pump cement to fill annulus from 5790' to approximately 1528'.
- 14. Displace cement.
- 15. Sting out of retainer and wash up.
- 16. TOOH with work string.
- 17. Run bond log to verify cement placement.
- 18. Drill out retainer.
- 19. Perform MIT test on casing.
- 20. Drill out bridge plug.
- 21. TOOH and secure well head.

Office of Oil and Gas
NOV 1 5 2013
WV Department of
Environmental Protection



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION 7

Gaed - New Martinsville WELL RECORD

Slate

Shale

Red Rock

Red Rock

Permit No. MARS-313 Oil or Gas Well Brine Company Columbia-Southern Chemical Corp. Casing and Tubing Used in Drilling Paclure Address New Martinsville, W. Va. Farm J. N. Wells 86.86 Location (waters) East Bank Ohio River, Natrium Sizo 621 621 Elev 632.8 Kind of Packer_ 18____ Wall No. 9 1431 PF31 District Franklin ____County__ Marshall 15301 15301 The surface of tract is owned in fee by Columbia-Southern 6BOli xx 8-5/8 6804 Chemical Corp. Address New Martinsville Mineral rights ar wased by Columbia-Southern Depth set.... 654.... Address Now Martinsville Chemical Corp. 58/16_ Drilling commenced August 1, 1957 Perf. top... Drilling completed May 7, 1959 Perf. bottom_ Perf. ton__ Date Shot_ Fron.____ Liners Used. With_ Perf. bottom... Open Flow /10ths Water in__ Inch /10ths Merc. in___ Inch CASING CEMENTED SIZE Volume_ Cu. Ft. Rock Pressure. COAL WAS ENCOUNTERED AT PERT EXECUL _bbls., 1st 24 hrs. FEET. INCITES FEET INCHES Fresh water_ Salt water_ _feet_ REET MERK INCHES fost REET Hard or Soft Oil, Gas or Water Depth Found Formation Color Remarks Top Bottom 0 4.1 Clry 22 Soft 4.1 37 65 Gravel Soft 37 65 Sand -Hard 72 Shale Hard 72 114 Time æ Hard 114 162 Coal Hard 162 167 Lime 167 182 Hard Slate Hard 182 186 Lime Hard 186 198 Shale Hard 198 221 Lime 221 228 Hard Slate 228 232 Hard Lime Hard 232 246 Slate 246 Hard 252 Pittsburgh Coal Conl 252 258 Hard Shale Hard 258 291 Sand 291 Hard 312 Slate Hard 312 317 Red Rock Hard 317 322 Shale Hard 322 346 Red Rock Hard **3**46 348 Slate 348 Hard 387 Sand Hard 387 396 Red Rock Hard 396 102 Shala Hard 402 432 Red Rock Hard 432 452 Shale 1,97 Hard 452 Sand Hard 497 528 Cow Run 528 550 Shale Hard 550 555 Red Rock Hard Shala Hard 555 561 561 572 578 Sand Hard 572 578 Line Hard 12/13/2013 Sand Hard 602

(Over)

646

651

669

682

602

646

651

669

Hard

Hard

Hard

Hard

Formation	Color	Hard or Soft	Тар 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Formation Shale Lime Shale Lime Shale Lime Slate Lime Slate Sand Slate Sand Slate Sand Shale Sinte Sand Shale Lime Slate Lime Slate Sand Shale Lime Slate Sand Lime Slate Lime Lime Slate Lime Lime Slate Lime Lime Slate Lime Lime Lime Lime Lime Lime Lime Lim		Hard or Soft Hard Hard Hard Hard Hard Hard Hard Hard	682 707 712 752 765 782 799 809 810 881 982 1029 1016 1111 1122 1211 1221 1277 1286 1289 1327 1597 1687 1752 1851 2386 2378 2378 2378 2386 2388 2378 2388 2586 2683 2683 2683 2683 2683 2683 2683 26	707 712 752 765 782 792 799 809 840 881 948 982 1029 1046 1111 1122 1172 1211 1221 1250 1277 1286 1289 1327 1597 1685 1697 1752 1802 1851 2256 2328 2376 2383 2461 2546 2898 2996 5805 6030 6083 6705 6815 6820 5	Oil. Gas or Water		Remarks Big Lime Injun Sand Onondaga Oriskany Helderberg TD 6820.5
							12/13/201

	DateMa	29 ,	, 19_59
APPROVED Col	:mbia-Sout)	ern Chemical Corp.	, Очле
Ву	3/20	(1 · 1 -	
G	L. Cobb,	(Title) Chief Engineer	

WR-35 Rev (9-11)

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

DATE: 7/16/2012 API #: 47-051-0313

Well Operator's Report of Well Work Farm name: PPG Industries, Inc. Operator Well No.: #9 Brine Well LOCATION: Elevation: 687.6 Quadrangle: New Martinsville, WV District: Franklin County: Marshall Latitude: 18066700 Feet South of 39 Deg. Min. 0 Sec. Longitude 1000' Feet West of 80 Deg. 50 Min. Sec. PPG Industries, Inc. Company: Casing & Used in Left in well Cement fill N. St. Rt. 2, New Martinsville, WV 26155 Address: Tubing drilling up Cu. Ft. 16" 60 J. Thomas Horan 13 3/8" H-40 441 EXISTING Inspector: Dereck M. Haught 10 3/4" H-40 1528 530 Sacks Date Permit Issued: 6/8/2012 8 5/8" J-55 6804 400 Sacks ADDED Date Well Work Commenced: 6/8/2012 5 1/2" J-55 6264 Packer 6/15/2012 Date Well Work Completed: N/A Verbal Plugging: BESEIVED N/A Date Permission granted on: Office of Oil & Gas Cable Rig V Total Vertical Depth (ft): 6824 OCT O 1 ZP13 Total Measured Depth (ft): 6824 Fresh Water Depth (ft.): Department of 6714' - 6824' (solid) Salt Water Depth (ft.): Is coal being mined in area (N/Y)? N Coal Depths (ft.): Void(s) encountered (N/Y) Depth(s) OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet) Producing formation N/A Pay zone depth (ft) N/A Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d Final open flow N/A Final open flow N/A MCF/d Bbl/d Time of open flow between initial and final tests N/A Hours Static rock Pressure N/A psig (surface pressure) after N/A Hours Second producing formation N/A Pay zone depth (ft) N/A Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d Final open flow N/A MCF/d Final open flow N/A Bbl/d Time of open flow between initial and final tests N/A Hours psig (surface pressure) after N/A Static rock Pressure N/A Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

Signature

7/16/12 Date

5100736

Were core samples	taken?	Yes	No.X		Ware cuttings and	and decimal different and
						ught during drilling? Yes
the LD. of the 8 5/8" cast	ecuantes	or Geophy	Sical logs re	corded on this area to set the pac	well? If yes, pleas ker.	e list A 60 arm caliper was used
DETAILED GE	DK STIR DLOGIC	AULATING	g, physic. Ord of t	AL CHANGE HE TOPS A	. ETC. 2). THR V	ILS OF PERFORATED INT /ELL LOG WHICH IS A SYS OF ALL FORMATIONS, IN L DEPTH.
Perforated Interval	s, Fractur	ing, or Stim	ulating:			
Perforation, Fra	cturing	and stimu	lating not	performed.	Log for geolog	ical record not performed.
	-					
Plug Back Details I	ncluding	Plug Type	and Depth(s)	· N/A		
Formations Encour	tered:			Top Depth		Bottom Dep
SHI MACE.						
	-	·				
						
						
		-		:		

WW-2A (Rev. 6-07)

1). Date: _	11/13/13		_
2.) Operator's \	Well Number	#9 Injectio	n Well
	State	County	Permit
3.) API Well No	o.: 47-	051	- 0313

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	ner(s) to be serv	1 4 /	5) (a) Coal Operator	
(a) Name Address	Eagle Natrium LLC/Axis	all Corporation	Name	
Address	P.O Box 191	CAEE	Address	-
(b) Name	New Martinsville, WV 2	0100	(b) Coal Owner(s) with Declarat	ion
Address			Name	ion
Addiess			Address	
			Address	
(c) Name			Name	
Address	-		Address	
71441000			71001000	
6) Inspector			(c) Coal Lessee with Declaration	n
Address	1		Name	
11110122	-		Address	
Telephone	-	A		
10000	TO TH	E PERSONS NA	MED ABOVE TAKE NOTICE THAT:	
Included is t			contract or contracts by which I hold the	
OR				
			2, Article 6, Section 8(d) of the Code of W	
I certify	that as required ur	nder Chapter 22-6	of the West Virginia Code I have serve	d copies of this notice and
application, a loc			ents pages 1 through on the above n	amed parties by:
11 11 14		rvice (Affidavit atta		
		Notice of Publication	tal receipt attached)	
I hove re			d 35 CSR 4,and I agree to the terms a	and conditions of any normit
issued under this		Chapter 22-6 and	1 35 CSR 4, and 1 agree to the terms a	and conditions of any permit
		w that I have pers	onally examined and am familiar with th	e information submitted on
			ased on my inquiry of those individuals i	
			is true, accurate and complete.	
I am awa	are that there are s	ignificant penalties	for submitting false information, including	g the possibility of fine and
imprisonment	TCIAL SEAL	W-11 O		
NO	ARY PUBLIC 9		Eagle Natrium LLC/Axiall Corporation	
	WEST VIRGINIA	By:	1-10-Horan	
). Box 168	Its: Address	Manager Enviromental P.O. Box 191	
	ast Virginia 26055	Address	New Martinsville, WV 26155	BECEIVED
My Commission	Expires Oct 25, 2020	Telephone	304-455-2200	HIELENVEL)
Subscribed and	sworn before me th	per la		Silice of Oil and Gas
	, مل	0	10014111.00	
	Un	C Dayon	/ Notary Public	NOV 1 5 2013
My Commission	Expires Oct.	25 12020 00		
Oil and Gas Privacy	Notice			WV Department of
			and as name address and about another of	- pudganmantal Bress ofin

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Clond 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

SURFACE OWNER WAIVER

County	Marshall	Operator	Eagle Natrium LLC./Axiall Corporation
		Operator well number	#9 Injection Well

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure a dequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective:
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

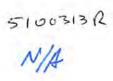
VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on F orm WW2-B, a s urvey plat, and a s oil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL	PERSON	FO	OR EXECUTION BY A CORPORATION, ETC.
	Date	Company Name	RECEIVED Eagle Natrium LLC Axiall Corporation Of Oil and Gas
Signature		By	Ed McLaughlin
1.73,600		Its	NOV 1 5 20 Date
Print Name	-		Signature Environmental Poatection

WW-2A Coal Waiver



COAL OPERATOR, OWNER, OR LESSEE WAIVER

County				
Operator	Oper	ator's Well Numb	_{per} #9 Injection	Well
7.000.000.000.000				
INSTRUCTIONS	TO COAL O	PERATOR, OW	NER, OR LESSEE	
To the coal operator, owne any objection you wish to make or with the Chief of the Office of Oil aby the Office. Mail objections to:	are required t	o make by WV C	code 22-6-15, 16 or	17, must be filed
Chief, Office of Oil and Gas	41			
Department of Environmental Prote	ection			
Charleston, WV 25304				
(304) 926-0499 extension 1654				
	W	AIVER		
The undersigned coal operalocation has examined this propos location, the well location has been work proposed to be done at this location meants of the West Virginia (ed well location added to the ocation, provid	n. If a mine map mine map. The ed, the well oper	exists which covers undersigned has no rator has complied w	s the area of well o objection to the
FOR EXECUTION BY A NATURAL PERS	SON	FOR E	EXECUTION BY A COR	PORATION, ETC.
		Company		
Signature	Date	Name By		
oignatare		lts _		Date
		-	Signature	Date
				24.0

RECEIVED Office of Oil and Gas

NOV 1 5 2013

WV Department of Environmental Protection

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that —

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

351/265

AXIAL OWNS MINERALS

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service.
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appropriate authority before the affected activity is initiated.

Well Operator: By:Its: Eagle Natrium LLC/Axiall Corporation

Manager, Environmental Control

Mill Department of

Environmental Protection

WW-2B1
(5-12)

Well	No.	#9 Injection Well	

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Labora Sampling Contr	· · · · · · · · · · · · · · · · · · ·
Mall On anaton	
vveii Operator	Eagle Natrium LLC/Axiall Corporation
Well Operator Address	P.O. Box 191
•	

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

RECEIVED
Office of Oil and Gas

NOV 152013

WV Department of Environmental Protection WW-9 (5/13)

	Page	of
API Number 47 - 051	-0313	
Operator's Well	No. #9 Injection	n Well

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

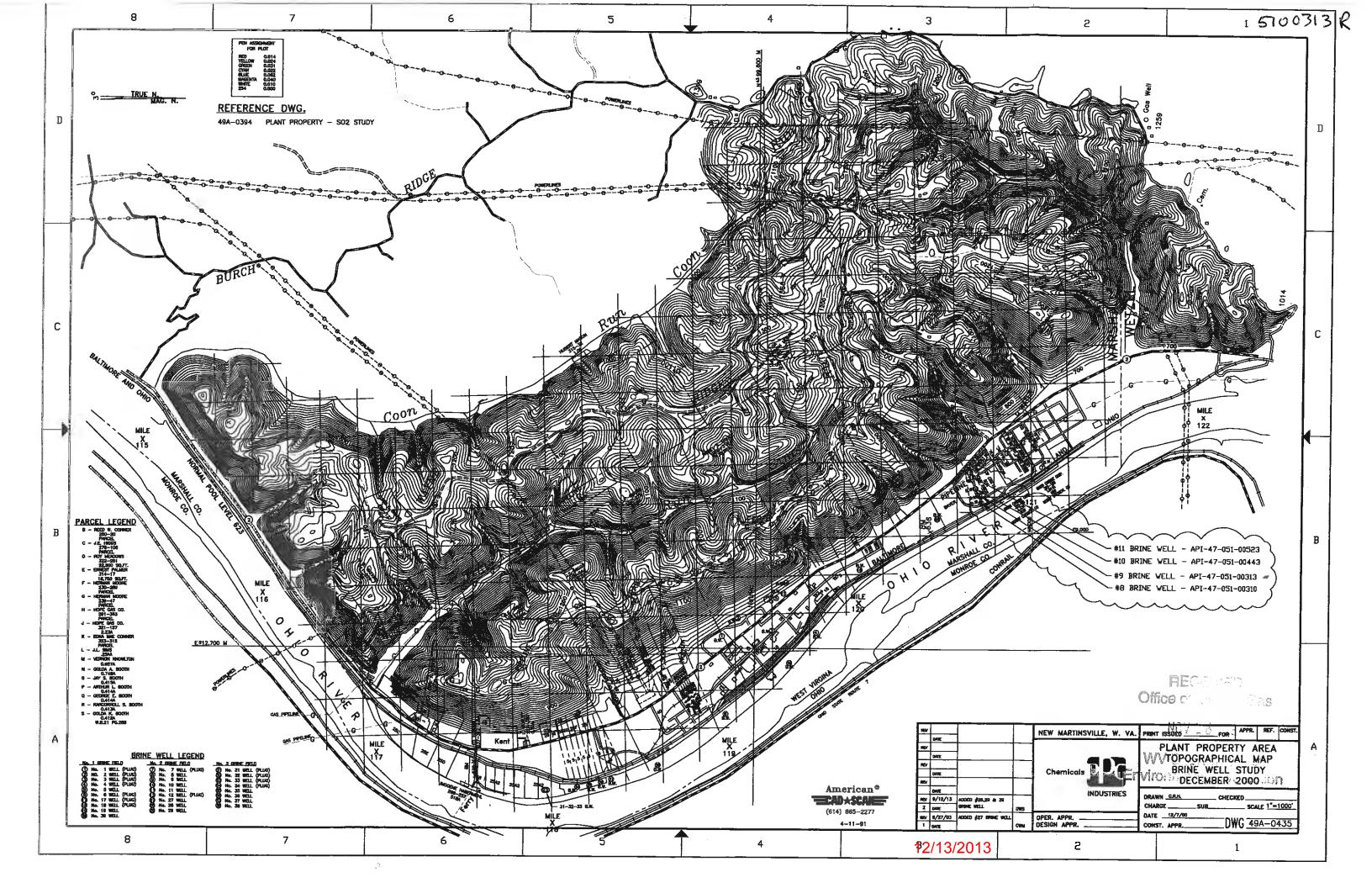
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

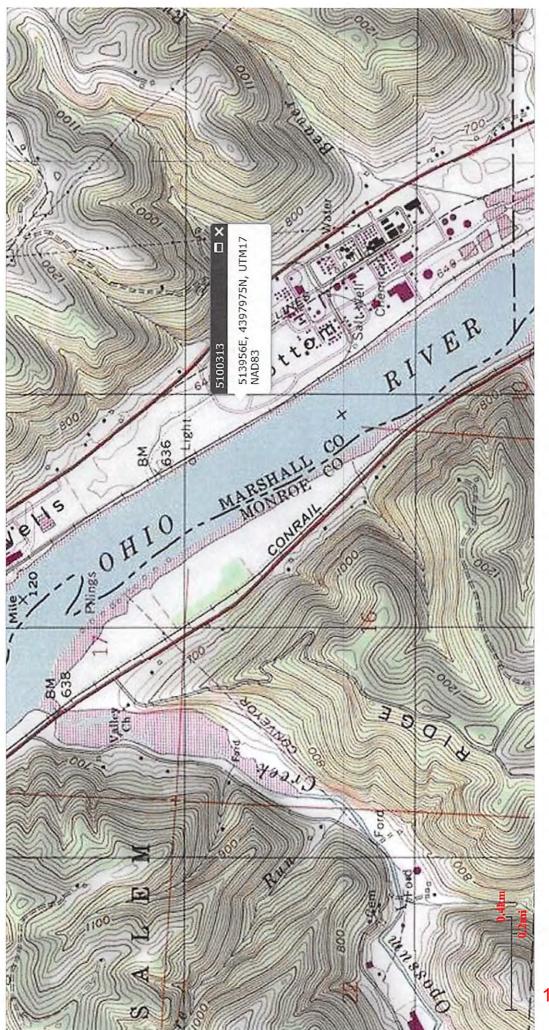
Operator Name Eagle	Natrium LLC/Axiall Corporation		OP Code 39600	
	Dhio River			
	County_Mars			
Do you anticipate using	more than 5,000 bbls of water to	complete the proposed	well work? Yes	No ×
	ill cuttings? Yes No		-	
	escribe anticipated pit waste:			
	c liner be used in the pit? Yes			
	osal Method For Treated Pit Was			
	Land Application Underground Injection (UIC Reuse (at API Number_ Off Site Disposal (Supply for)
-	Other (Explain			
Will closed loop system	be used? No			
	pated for this well? Air, freshwater			
	hat type? Synthetic, petroleum,			
	drilling medium?			
	nethod? Leave in pit, landfill, rer			
	nd plan to solidify what medium v			
	fsite name/permit number? SWF-1			
on August 1, 2005, by to provisions of the permilaw or regulation can be I certify unde application form and obtaining the informat	understand and agree to the term he Office of Oil and Gas of the W t are enforceable by law. Violat ad to enforcement action. The penalty of law that I have persall attachments thereto and that ion, I believe that the information false information, including the	Vest Virginia Departmentions of any term or consonally examined and a based on my inquiry on is true, accurate, and	at of Environmental Prote adition of the general per arm familiar with the inf of those individuals in d complete. I am awar	ection. I understand that the rmit and/or other applicable formation submitted on this mmediately responsible for that there are significant
Company Official Sign	ature AJ Hora			RECEIVED
	oed Name) J. Thomas Horan			Office of Oil and Ga
	Manager, Environmental Control			NOV 1 5 2013
	- D)	0.110.6	Basamanah James	
Subscribed and sworn l	before me this 14 day	y of October	Notary Rublic	OFFICIAL SEAL Protes NOTARY PUBLIC STATE OF WEST VIRGINIA
My commission expire	Oct. 25,2020	J		ERIN C. BOGGS P.O. Box 168

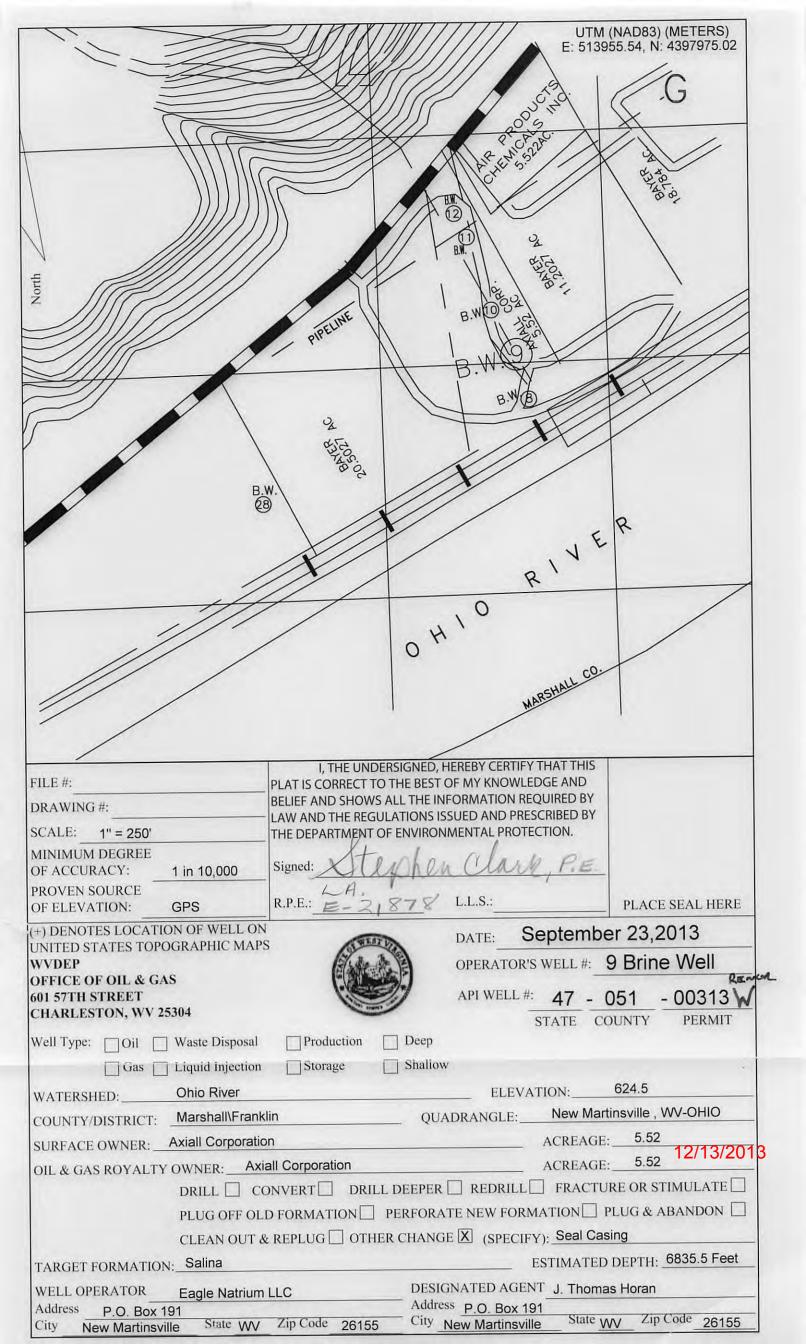
Form WW-9		Operator's W	_{rell No.} #9 Injection Well
Proposed Revegetation Treatment: Acres D	oisturbed N/A	Prevegetation pl	I
Lime Tons/acre			
Fertilizer (10-20-20 or equivalent)	lbs/acre (500	lbs minimum)	
Mulch	Tons/acre		
	Seed Mixtures		
Area I		Are	ea II
Seed Type lbs/acre		Seed Type	lbs/acre
			· · · · · · · · · · · · · · · · · · ·
Drawing(s) of road, location,pit and propose Photocopied section of involved 7.5' topogr	aphic sheet.		
Plan Approved by:			
Comments:			
			<u></u>
Title:	Date:		
Field Reviewed? () Yes			RECEIVED Office of Oil and Ga
			NOV 1 5 2013

Form WW-9

W// Department of Environmental Protection







	ZUM		UTM (I	NAD83) (METERS) 5.54, N: 4397975.02
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	I, THE UN	DERSIGNED, HEREBY CERT	TIFY THAT THIS	
FILE #:	BELIEF AND SHOW	TO THE BEST OF MY KNOW VS ALL THE INFORMATION	REQUIRED BY	
DRAWING #:	LAW AND THE REC	GULATIONS ISSUED AND F FOF ENVIRONMENTAL PR	PRESCRIBED BY	
SCALE: 1" = 250' MINIMUM DEGREE	THE DEPARTMENT	TOP ENVIRONMENTAL TH		
OF ACCURACY: 1 in 10,000	Signed:	lphen Cla	M, P.E.	
PROVEN SOURCE OF ELEVATION: GPS	R.P.E.: = - 2	1878 L.L.S.:		PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON		DATE:	Septembe	er 23,2013
UNITED STATES TOPOGRAPHIC MAP WVDEP	S S			9 Brine Well
OFFICE OF OIL & GAS	(Element)	1000	W	Rev
601 57TH STREET CHARLESTON, WV 25304	1	APIWEL	STATE CO	
Well Type: Oil Waste Disposal	Production	☐ Deep	SIAIL CO	OUTT TERMIT
Gas Liquid Injection		Shallow	,	r, ,
WATERSHED: Ohio River			EVATION:	
COUNTY/DISTRICT: Marshall\Frank	klin	QUADRANGLI	: New Mar	tinsville; WV-OHIO
SURFACE OWNER: Axiall Corporati	on		ACREAGE	40/40/0040
OIL & GAS ROYALTY OWNER: AX	iall Corporation		ACREAGE	5.52 12/13/2013
DRILL C	ONVERT DR	ILL DEEPER REDRI	CRACTU	RE OR STIMULATE
		PERFORATE NEW FO		
	& REPLUG ∐ OT	HER CHANGE X (SPE		DEPTH: 6835.5 Feet
TARGET FORMATION: Salina	AA 20	DESIGNATED A		
WELL OPERATOR Eagle Natrium Address P.O. Box 191	n LLC	Address P.O. Bo	ox 191	
	Zip Code 261	- 01		W Zip Code 26155