

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 051 - 0443 W County Marshall District Franklin
Quad New Martinsville, WV Pad Name N/A Field/Pool Name N/A
Farm name Axiall Corp. Well Number No. 10 Injection
Operator (as registered with the OOG) Eagle Natrium LLC/Axiall Corp.
Address N. St. Rt. 2, City New Martinsville State WV Zip 26155

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) _____ GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other Water Injection
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Brine Water mixed with 2%KCL

Date permit issued 9/27/2013 Date drilling commenced 9/30/2013 Date drilling ceased 10/25/2013
Date completion activities began N/A Date completion activities ceased N/A
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 50' Open mine(s) (Y/N) depths N/A
Salt water depth(s) ft 1050'-1760' Void(s) encountered (Y/N) depths N/A
Coal depth(s) ft 252' - 258' Cavern(s) encountered (Y/N) depths N/A
Is coal being mined in area (Y/N) N

Received
Office of Oil & Gas
NOV 24 2014

Reviewed by: _____
12/05/2014

API 47-051 - 0443 W Farm name Axiall Corp. Well number No. 10 Injection

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor		16"	61'	New	52.36		
Surface							
Coal							
Intermediate 1		10 3/4"	1611'	New	32.75		
Intermediate 2							
Intermediate 3							
Production		7"	6808.62'	New	J55 @ 26lb/ft		
Tubing							
Packer type and depth set							

Comment Details Perforations were made in the 7" Production casing to perform a squeeze job, not for fracing purposes. The perms. were made from 5060' to 5058'. Cement was squeezed from 5060' to 3120'.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface							
Coal							
Intermediate 1		888 Sacks					
Intermediate 2							
Intermediate 3							
Production		360 Sacks					
Tubing							

Drillers TD (ft) N/A Loggers TD (ft) N/A
 Deepest formation penetrated N/A Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) N/A

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING N/A

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS N/A

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS N/A

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

Received
Office of Oil & Gas
 NOV 24 2014

API 47- 051 - 0443 ^W Farm name Axiall Corp. Well number No. 10 Injection

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
N/A					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
N/A								

Please insert additional pages as applicable.

Received
Office of Oil & Gas
NOV 24 2014
12/05/2014

API 47- 051 - 0443 ^W Farm name Axiall Corp. Well number No. 10 Injection

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
	TVD	MD
N/A		
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd

GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Viking Drilling
Address _____ City _____ State _____ Zip _____

Logging Company Baker Hughes
Address _____ City _____ State _____ Zip _____

Cementing Company Baker Hughes
Address _____ City _____ State _____ Zip _____

Stimulating Company N/A
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Edward T. McLaughlin Telephone 304-455-2200-3476
Signature Edward T. McLaughlin Title Brine Field Engineer Date 11/20/2014

Received
Office of Oil & Gas

NOV 24 2014

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

12/05/2014