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

API 47-109-01093 W County Wyoming District Slab Fork
Quad McGraws 7 1/2 Pad Name _____ Field/Pool Name _____
Farm name Heartwood Forestland Fund IV, LP Well Number Y&O #107
Operator (as registered with the OOG) EnerVest Operating LLC
Address 300 Capitol Street, Suite 200 City Charleston State WV Zip 25301

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) 1877 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 _____
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)

Date permit issued 10/16/2013 Date drilling commenced 7/2/1989 Date drilling ceased 10/25/1989
Date completion activities began 11/12/2013 Date completion activities ceased 1/10/2014
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft + - 1130' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft + - 1380' Void(s) encountered (Y/N) depths Office of Oil and Gas
Coal depth(s) ft No Record Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) _____

RECEIVED
Office of Oil and Gas
MAY 09 2014
Reviewed by:
WV Department of
Environmental Protection
05/23/2014

API 47-109 - 01093 W Farm name Heartwood Forestland Fund IV, LP Well number Y&O #107

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		20"	20'				
Surface							
Coal							
Intermediate 1		9 5/8"	1094'		36#		
Intermediate 2							
Intermediate 3							
Production		4 1/2"	6548'		11.6#		
Tubing		2 3/8"	3601				
Packer type and depth set		Parmaco Tension Packer @1471' on tbg					

Comment Details _____

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	A				509		
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	A				1501		
Tubing							

Drillers TD (ft) 6563' Loggers TD (ft) _____
 Deepest formation penetrated _____ Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) _____

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 _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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Office of Oil and Gas

MAY 09 2014

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: HEARTWOOD FAIRFAX FARM IV, LP Operator Well No.: Y20 107

LOCATION: Elevation: 1877' Quadrangle: McGraws 7 1/2'
District: SLAB FORK County: WYOMING
Latitude: 12475 Feet South of 37 Deg. 42 Min. 30 Sec.
Longitude: 8425 Feet West of 81 Deg. 27 Min. 30 Sec.

Well Type: OIL _____ GAS ✓

Company ENEWEST OPERATING CO. Coal Operator WV MLD. VOL., INC.
300 CAPITAL ST. STE 200 or Owner ROCKHOUSE LAND, LLC
CHARLESTON, WV 25301

Agent BARRY LAY Coal Operator _____
Permit Issued Date 10/16/13 or Owner _____

AFFIDAVIT

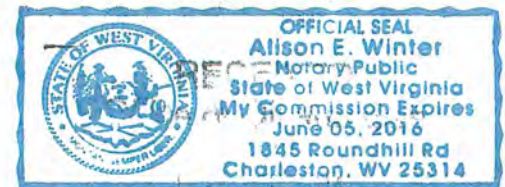
STATE OF WEST VIRGINIA,
County of Kanawha ss:

Barry Lay and CHRIS VEZEY being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 25TH day of November, 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CEMENT	4352'	5100'	NONE	4 1/2" @ 6548'
RETAINER	4352'	4354'	NONE	" "
CEMENT	4056'	4352'	NONE	" "
CIBP	3740'	3742'	NONE	" "

Description of monument: N/A PARTIAL PLUG and that the work of plugging and filling said well was completed on the 28TH day of November, 2013.

And further deponents saith not. Barry Lay
Chris Vezev



Sworn and subscribe before me this 14th day of April, 2014

My commission expires: June 5, 2016 Alison E. Winter Department of Environmental Protection
Notary Public