

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 28, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-6100990, issued to NNE RESOURCES 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

Operator's Well No: BARRACKMAN 5

Farm Name: EDDY, MARK & HARRY

API Well Number: 47-6100990 Permit Type: Plugging

Date Issued: 09/28/2015

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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 under the terms of that agreement.

WW-4B Rev. 2/01

1) Date 8/3	,	2015
2) Operator's		
Well No. Barrac	kman 5	
3) API Well No.	47-061	- 00990

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

(If	Oil X / Gas X / Liquid	d injection/ Waste disposal/
	"Gas, Production X or Und	derground storage) Deep/ Shallow X
5) Location: E	levation 1,142 ft.	Watershed Dunkard Creek
E	istrict Clay	County Monongalia Quadrangle Blacksville
6) Well Operato	r NNE Resources LLC	7) Designated Agent Zack Arnold
Addres	5 707 Virginia Street E., Suite 1200	Address 48 Donley Street, Ste 601
	Charleston, WV 25301	Morgantown, West Virginia 2650
8) Oil and Gas Name Gayn e	Inspector to be notified	9) Plugging Contractor Name TBD
Address P.		Address
	oundsville, WV 26041	
	en ended tubing to determ move all casing by pulling a	a minimum of 150% of casing string weigh
		Received
		ove as much casing as possible Received 100' below coal to set a solid cement plug
If casing will Log well to Spot expanda		
If casing will Log well to Spot expands	not pull out, cut and remo	Onio
Attempt to re	3 - 1	ove as much casing as pos



Barrackman 5 Monongalia County, WV API Number: 4706100990 AFE Number: TBD Plugging Procedure

June 17, 2015

Discussion

Approval is requested to perform the initial plugging on the Barrackman 5 Well. The Barrackman 5 is a vertical well located in Monongalia County, WV. For this procedure, the TD of the Barrackman 5 has been estimated to be approximately 2,594' based off of averages from nearby wells whose TD values were known. Production from this well has been very low for numerous years. The Barrackman 5 is recommended to be plugged and abandoned.

Plug and abandonment procedure:

- 1. Perform necessary earth work to establish access and work area for rig
- Ensure all necessary E&S controls are installed
- 3. RIH with open ended tubing to determine PBTD
- Attempt to remove all casing by pulling a minimum of 150% of casing string weight If
 casing will not pull out, cut and remove as much easing as possible
- 5. Spot expandable cement from PBTD to 100' above coal
- 6. Wait on expandable cement to harden (WOC)
- Top off well to surface with class A cement with no more than 3% CaCl2 and no other additives
- 8. Place a well monument with API number
- 9. Reclaim site

Well Record Procedure

NNE Resources LLC researched the proposed well for plug and abandonment using the following information centers:

- •The DEP office at 601 57th Street, Charleston, WV 25304.
- •The DEP online database for Oil and Gas Wells for production and well data.
- ·Titlemaps.com for lease information.
- ·Research well files provided by previous operator

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WELL DATA

Location (Surface)	Lat. 39.6472925	Long80.1343386
TD*		2,594'
PBTD		NA
Packer		NA
Marker Joint		NA

The actual TD of this well is unknown, so it has been estimated to be approximately 2,594' based off known TD values for nearby wells.

CASING AND TUBULAR DATA

STRING	SIZE	WEIGHT/GRADE	DEPTH*	THREAD	TOC
Surface	10"	N/A	572'	N/A	N/A
Intermediate	8 1/4"	N/A	828'	N/A	N/A
Intermediate	6 5/8"	N/A	1,580'	N/A	N/A
Production	5 3/16"	N/A	1,868'	N/A	N/A

The casing depths used in this procedure are estimated values obtain from averaging the depths from the other plugging procedures which contained known depth values for wells close to this one. 150' cement plugs at the estimated depths where casing size changes to increase the likelihood of covering the actual depths. The 8 1/4" casing setting depth remained fairly consistent between wells so a 100' plug will be used as it was for the wells that had known setting depths.

CAPACITIES

SIZE	WEIGHT	CAPACITY (GAL/FT.)	CAPACITY (BBL/FT.)
10***	N/A	4.192	0.0998
8 1/4*"	N/A	2.738	0.0652
6 5/8"	N/A	1.536	0.0365
5 3/16*"	N/A	1.038	0.0247
2 3/8"	4.7#	0.16239	0.00387

SIZE	WEIGHT	CAPACITY (CU FT/FT.)	CAPACITY (BBL/FT.)
10*"	N/A	0.5603	0.0998
8 1/4*"	N/A	0.3659	0.0652
6 5/8"	N/A	0.2052	0.0365
5 3/16*"	N/A	0.1387	0.0247
2 3/8"	4.7#	0.02171	0.00387

^{*} The asterisks represent sizes where estimates were used to produce the capacity data. For the 10" casing the capacity of a 35.75#/ft 10 3/4" casing was used. For the 8 1/4" casing capacities a 20#/ft 8 5/8" casing was used. For the 5 3/16" casing capacities a 13#/ft 5 1/2" casing was used.

DRIVING DIRECTIONS

From Morgantown:

Travel on US-19 N to Star City
Continue on US-19 N for 3-4 miles
Turn Left onto Route 7
Travel down Route 7 for approximately 5 miles
Pass the small town of Core and turn left on Pedlar Run
Stay left on that road
At the bottom of Behler Hill there is a tank on the left
Go down that way and head toward the house
The well is up the hill above the house

Office of Oil & Gas

Sayna Knitawski
Inspectors Signature



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin Governor Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

August 21, 2015

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Barrackman No. 4&5 Well Sites, Monongalia County

Dear Mr. Martin,

Northeast Natural Energy LLC has been issued permit #04-2015-0837 to access the State Road for a well site located off of Monongalia County Route 37 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Day K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Dave McDougal

Northeast Natural Energy Corporation

CH, OM, D-4

File

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WV Department of Environmental Protection

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WV Department of
Environmental Protection

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Office of Oil and

Gas

WW-4A Revised 6-07

1) Date:	8/3/15	
2) Operator	's Well Number	
Barrackman 5		

Address	Eddy Mark V & Betty	V 970	a) Coal Operator Name	Consolidation Coal Comp	pany Attn:Analyst
	537 Pedlar Run Rd		Address	STATE OF THE PARTY	g and Operations Support-Coal
0.000	Core WV, 26541				Drive. Canonsburg, PA 15317-6506
(b) Name				ner(s) with Declara	ntion
Address			Name		
			Address		
(c) Name			Name		
Address			Address		
i) Inspector	Gayne Knitowski			see with Declaratio	on
Address	P.O. Box 2		Name		
	Moundsville, WV 26041		Address		
Telephone	204 546 8474				
(1) The well (2) The	application to Plug and A its and the plugging work plat (surveyor's map) show	bandon a Well on F order; and wing the well locatio	Form WW-4B, which on on Form WW-6.	sets out the parties inv	ne following documents: olved in the work and describes the
(1) The well (2) The The reason However, y Take notice accompany Protection, the Applic	application to Plug and Alits and the plugging work plat (surveyor's map) show you received these document you are not required to take any e that under Chapter 22-6 of thing documents for a permit to with respect to the well at the	abandon a Well on F order; and wing the well location ats is that you have right by action at all. the West Virginia Code to plug and abandon a well location described on a mailed by registered	Form WW-4B, which a on on Form WW-6. this regarding the applica e, the undersigned well of well with the Chief of the in the attached Application or certified mail or deli	sets out the parties invention which are summarized perator proposes to file or Office of Oil and Gas, We nand depicted on the attac	d in the instructions on the reverses side. has filed this Notice and Application and est Virginia Department of Environmental ched Form WW-6. Copies of this Notice, on(s) named above (or by publication in
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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 depprivacyoffier@wv.gov.

WW-9 (2/15)

API Number 47 - 061	_ 00990
Operator's We	ell No. Borrackman 5

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

FLUIDS/ CUTTINGS DISPOSA	L & RECLAMATION PLAN
Operator Name NNE Resources LLC	OP Code 494511469
Watershed (HUC 10) Dunkard Creek	Quadrangle Blacksville
Do you anticipate using more than 5,000 bbls of water to complete the	
Will a pit be used? 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:	
Land Application	Can Alliandaria
Underground Injection (UIC Permit Num Reuse (at API Number See Attachment	ber See Altacriment
Off Site Disposal (Supply form WW-9 for	r disposal location)
Other (Explain	-
~·/ .	Ad t
Will closed loop system be used? If so, describe: NAT Yes, Se	e Attachment
Drilling medium anticipated for this well (vertical and horizontal)? A	kir, freshwater, oil based, etc. Freshwater/gel
-If oil based, what type? Synthetic, petroleum, etc. N/A	
Additives to be used in drilling medium? Bentonite	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite	e, ctcRemoved offsite
-If left in pit and plan to solidify what medium will be used?	(cement, lime, sawdust)
-Landfill or offsite name/permit number? See Attachment	
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	
on August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any t law or regulation can lead to enforcement action. I certify under penalty of law that I have personally exam application form and all attachments thereto and that, based on robtaining the information, I believe that the information is true, at penalties for submitting false information, including the possibility of Company Official Signature Company Official (Typed-Name) Zack Arnold	erm or condition of the general permit and/or other applicable lined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for courate, and complete. I am aware that there are significant
Company Official Title General Manager-Operations	AUG 2 0 2813
10·11. A	WV Department of
Subscribed and sworn before me this 19th day of 1	20 Environmental Protection
Kust	Notary Public STATE OF WEST WASHING
My commission expires January 28 202	Kristen M. Vernon 22 Pointa Drivo
0	My Commission Expires Jeruszy 28, 2020

Mulch 2 Tons/ac	/acre Mixtures Permanent Seed Type Orchard Grass Red Clover Tertraploid Perennial Rye Timothy 15 Annual Rye	lbs/acre 46 8 16
Fertilizer type 19-19-19 Fertilizer amount 500 lbs Mulch 2 Tons/ac Seed Temporary Seed Type lbs/acre Orchard Grass 46 Red Clover 8 Tertraploid Perennial Rye 16 Timothy 15 Annual Rye 15 Attach: Drawing(s) of road, location, pit and proposed area for land application of involved 7.5' topographic sheet.	Mixtures Permanent Seed Type Orchard Grass Red Clover Tertraploid Perennial Rye Timothy 15 Annual Rye	46 8 16 15
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WV Department of 2015 Environmental Protection

Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Barrackman 5 well. Return flow from the well will be separated into its liquid and solid form. Liquids will be held in steel tanks and reused in the drilling and completion process or disposed of at an approved facility listed below. Solids removed from the stream will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated.

Barrackman 5 Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

- Westmoreland Landfill (Tervita) Belle Vernon, PA (Permit # 100277)
- Meadowfill Landfill (Waste Management) Bridgeport, WV (Permit # SWF 103298)
- Max Environmental Yukon, PA (PAD004835146 and 301071)
- Max Environmental Bulger, PA (PAD059087072 and 301359)
- Chestnut Valley Landfill (Advanced Disposal) Export, PA (Permit # 101421)

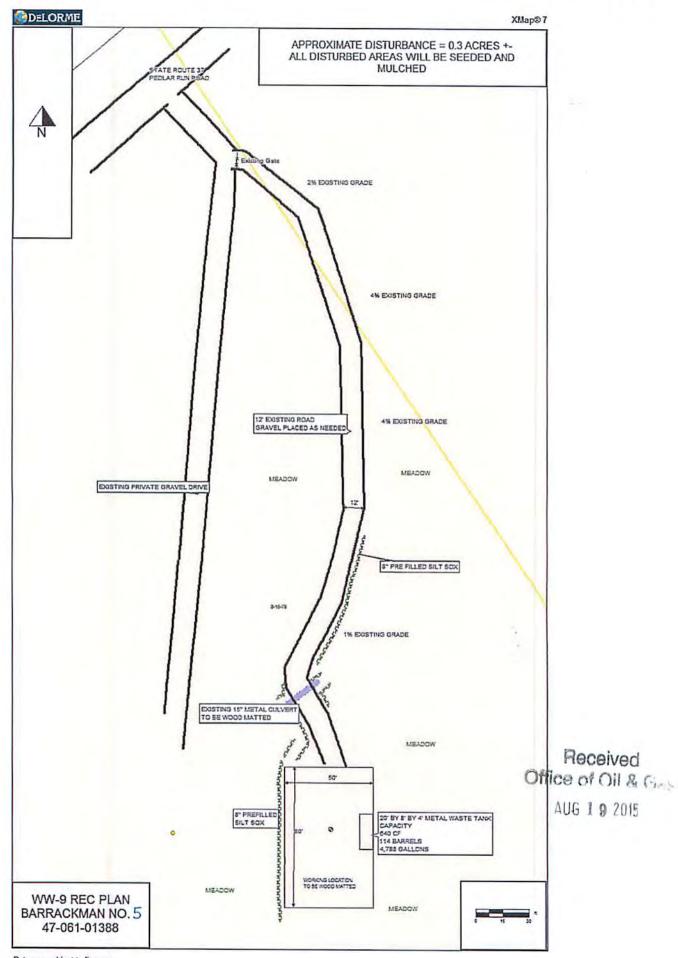
NNE plans to reuse and recycle all flowback fluid and/or reach out to other operators in the area who may be able to reuse and recycle such fluid. However, in the event that reuse is not obtainable the fluid will be disposed of at one, or multiple, of the following disposal/approved waste facilities unless listed facilities are no longer approved to accept waste at time of disposal:

- Fairmont Brine Processing (WV NPDES #0116408)
- Green Hunter M. E. Elder 1 Disposal Well (Permit # 47-085-05151)
- Green Hunter Mason 1 Disposal Well (Permit #47-085-09721)
- Green Hunter Warren Disposal Well (Permit #34-121-2-3995)
- Green Hunter Travis Unit Disposal Well (Permit #34-121-2-4086)
- Viking Energy Corporation 20320 Disposal Well (Permit#47-039-02210)
- Ohio Oil Gathering Killbuck Disposal Well (Permit #34-075-24527)
- Ohio Oil Gathering Moran Disposal Well (Permit #34-089-24792)
- Ohio Oil Gathering Bells Run Disposal Well (Permit #34-167-29395)
- Ohio Oil Gathering Long Run Disposal Well (Permit #34-167-29658)
- Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-29685)
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit # 200732523)

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Office of Oil and Gas

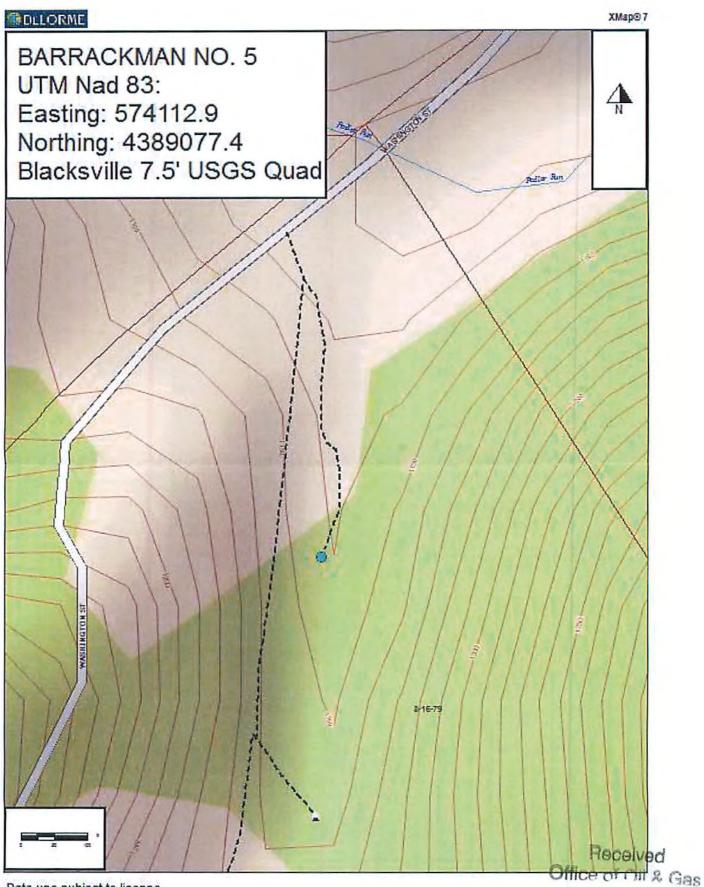
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WV Department of Environmental Protection



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10/02/2015

WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL	LOCATION FO	RM: GPS		
_{API:} 47-061-00990	w	VELL NO.: 5		
FARM NAME: Barrackr	nan			
RESPONSIBLE PARTY NAM	ME: NNE Resou	urces LLC		
COUNTY: Monongalia	DIST	TRICT: Clay		
QUADRANGLE: Blacks	/ille, WV			
SURFACE OWNER: Mark		Eddy		
ROYALTY OWNER: Mart	ha E. Barrickn	nan		
UTM GPS NORTHING: 438	89077.4			
UTM GPS EASTING: 5741	112.9 _G	PS ELEVATION:	1,142'	
	lat for a plugging permit nd Gas will not accept C Zone: 17 North, Coordin ea level (MSL) – meters – 3.05 meters hod:	t or assigned API no GPS coordinates that mate Units: meters, S.	umber on the t do not meet	
	eal-Time Differential			eived
Mapping Grade GPS X:	Post Processed Differen	ntial	Office of	
	Real-Time Differential	X	AUG 1	9 2015
4. Letter size copy of the undersigned, hereby certify belief and shows all the information prescribed by the Office of Oil	ntion required by law and	he best of my know	ledge and	
30//	General Manager-	Operations 7	AUG 15	
Signature	Title		Date	

10/02/2015