

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Wednesday, December 20, 2017 WELL WORK PERMIT Vertical / Plugging

HALL DRILLING, LLC 1137 E. WASHINGTON AVE.

ELLENBORO, WV 26346

Re: Permit approval for HALL DRILLING, LLC 3

47-085-09909-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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) 926-0450.

James A. Martin Chief

Operator's Well Number: HALL DRILLING, LLC 3

Farm Name: TECH SERVICE CENTER U.S. WELL NUMBER: 47-085-09909-00-00

Vertical / Plugging

Date Issued: 12/20/2017

Promoting a healthy environment.

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	Novemb	er 7	,	20	17
2)Opera	ator's				
Well	No. Te	ch Service	Center	No.3	
3)API V	Vell No	0. 47-	085	-	09909

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

	011101 01	
	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas/ Liquid	d injection X / Waste disposal X /
	(If "Gas, Production or Und	derground storage) Deep/ Shallow
	4 040	Hushora Dun
5)	Location: Elevation 1,010'	Watershed Hushers Run
	District Clay	County_Ritchie Quadrangle_Ellenboro 7.5'
6)	Well Operator Hall Drilling, LLC	7)Designated Agent M.T. Hall
0 /	Address 1137 E. Washington Ave.	Address 1137 E. Washington Ave.
	Ellenboro, WV 26346	Ellenboro, WV 26346
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
	Name Michael Goff	Name Meadows Well Service, LLC
	Address 1723 Auburn Road	Address 45 Meadows Drive
	Pullman, WV 26421	Ravenswood, WV 26164
	** See Attached Sho	Peet ** RECEIVED Office of Oil and Gas NOV 1 5 2017 WV Department of Environmental Protect
		Environmental Protect
	fication must be given to the district of can commence.	1 and gas inspector 24 hours before permitted
Work	order approved by inspector Mahael	Date 11/15/17

MANNER OF PLUGGING FOR: TECH SERVICE CENTER NO.3 (47-085-09909)

Elevation: 1,010'

TD:

7,056'

Casing:

9 5/8"

148'

Cemented to Surface

7"

3,100'

Cemented to Surface

4 1/2"

6,611'

TOC - 2,810' (Est.)

PBTD:

6,640'

Perfs:

6,485' - 6,491' (Oriskany)

WORK ORDER

Plug No.1

Set Cast Iron Bridge Plug @ 6,470'

Plug No.2

6,470' - 6,270' 6100'

ABOVE MARCELLUS.

d w un

Freepoint, cut & pull 4 1/2' @ est. 2,800'

Plug No.3

2,850' - 2,750' (across 4 1/2" casing cut)

Plug No.4

1,060' - 960' (@ Elevation)

Plug No.5

190' to Surface (Covers Casing Seat)

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NOV 1 5 2017

NOTES:

Fill with 6% Gel between all cement Plugs

Erect Monument with API Number

WV Department of Environmental Protection WR-35 Rev (9-11)

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

DATE: MAY 16TH 201: API#: 47-085-09909

Well Operator's Report of Well Work Operator Well No.: 3 Farm name: Tech Service Quadrangle: Ellenboro 7.5' LOCATION: Elevation: 1010' County: Ritchie District: Clay Min. 30 Feet South of 39 Sec. Deg. 17 Latitude: 1650 Deg. 00 Min. 00 Feet West of 80 Sec. Longitude 4140 Hall Drilling, LLC Company: Used in Left in well Cement fill Casing & P.O. Box 289, Ellenboro, WV 26346 up Cu. Ft. **Tubing** drilling Address: Mike Hall Agent: 148' 148' CTS Inspector: David Cowan 9 5/8" Date Permit Issued: 08/09/2011 3100' 3100' CTS 05/14/2012 Date Well Work Commenced: 06/07/2012 Date Well Work Completed: 4.5" 6611 6611' **335 SKS** Verbal Plugging: Date Permission granted on: 5990' On Packer 2 3/8" 5990' Rotary 🗸 Rig Cable Total Vertical Depth (ft): 7067 Total Measured Depth (ft): 7067' RECEIVED Gas Fresh Water Depth (ft.): 50' NOV 1 5 2017 Salt Water Depth (ft.): Is coal being mined in area (N/Y)? N W Department of Environmental Protection Coal Depths (ft.): N/A Void(s) encountered (N/Y) Depth(s) N OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet) Pay zone depth (ft) 6454' Producing formation Oriskany RECEIVED MCF/d Oil: Initial open flow 0 Bbl/d Gas: Initial open flow 0 Office of Oil & Gas Final open flow 0 Bbl/d Final open flow 0 MCF/d Time of open flow between initial and final tests N/A _psig (surface pressure) after 0 Static rock Pressure 0 MAY 2 2 2013 Second producing formation Pay zone depth (ft)_ WV Department of MCF/d Oil: Initial open flow_____ _Bbl/d Gas: Initial open flow Environmental Protection Bbl/d MCF/d Final open flow ____ Final open flow Time of open flow between initial and final tests____ Static rock Pressure psig (surface pressure) after 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

<u>US/16/2013</u> Date

05/24/2013

85.09909

Were core samples taken? Yes	No.X	Were cuttings caught during drilling? Yes	No_X
Were Electrical, Mechanical or Geoph	ysical logs recorded on this we	ell? If yes, please list	
FRACTURING OR STIMULATIN	G, PHYSICAL CHANGE, I ORD OF THE TOPS AND	IG: 1). DETAILS OF PERFORATED ETC. 2). THE WELL LOG WHICH IS A S D BOTTOMS OF ALL FORMATIONS, ACE TO TOTAL DEPTH.	SYSTEMATIC
Perforated Intervals, Fracturing, or Stir	nulating:		
Perforated from 6485' to 6491'			
Sand - 42,680 lbs to total			
Fluid - 2,370 bbl total			
Slurry Rat - 31 bpm avg.			
Plug Back Details Including Plug Type			
75 SKS - 7056' to 6640'			
Formations Encountered: Surface:	Top Depth	/ Bottom I	<u>Depth</u>
Lime/Sand/Shale	0,	6158	J
Marcellus	6158'	6218	RECEIVED Sirice of Oil and Gas
_ime/Sand/Shale	6218'	6454	NOV 1 5 2017
Driskany	6454'	6516	NOA TO -
ime/Sand/Shale	6516'	7056	TD WV Department of WV Department of Civi on mental Protection
		RECEIV	
		Office of O	
		MAY 2 2	
		WV Departme	nt of

WW-4A	
Revised	6-07

1) Date:	November	7, 2017			
Operator's Well Number Tech Service Center No.3					
3) API Well No.	: 47 -	085	-	09909	

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

4) Surface Own (a) Name	ner(s) to be served: Tech Service Center	5) ((a) Coal Operator Name	NA	
Address	265 Hall's Drive		_ Address _	IVA	RECEIVED
Titalicoo	Pennsboro, WV 264	15			Office of Oil and Gas
(b) Name			(b) Coal Owne	er(s) with Declaration	NOV 1 5 2017
Address			Name	NA	1101 1 9 2011
	-	· · · · · · · · · · · · · · · · · · ·	Address		WV Department of Environmental Protectio
(c) Name			Name -		
Address			Address		
6) Inspector			(c) Coal Lesse	e with Declaration	
Address			Name	NA	
			Address		
Telephone			_		
The reason However, your Take notice accompanying Protection, when the Application is the Application of the	that under Chapter 22-6 of ng documents for a permit with respect to the well at t	nts is that you have riginy action at all. The West Virginia Code to plug and abandon a vhe location described or mailed by registered	hts regarding the application e, the undersigned well oper well with the Chief of the Or in the attached Application a or certified mail or deliver	on which are summarized in the instruction proposes to file or has filed this ffice of Oil and Gas, West Virginia and depicted on the attached Form Vired by hand to the person(s) named	is Notice and Application and Department of Environmental WW-6. Copies of this Notice,
nitesion Explines October 30, 202	My Com	Well Operator By: Its:	Hall Drilling, LLC, 113 Designated Agent	7 E. Washington Ave., Ellenboro, W. M.T. Hall	
Angela D De Moss on Run Road, Panneboro, WV 26	drud 1702	Address		Ave., Ellenboro, WV 26346	
State of West Virginia	SERVICE	Hauress		,	
Official scal Notary Public	······································	Telephone	304-869-3404		3
Subscribed and s	sworn before me th	is 14th da	ay of Novem	Notary Public	

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.

SURFACE OWNER WAIVER

Operator's Well Number

Tech Service Center No.3

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (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

RECEIVED Office of Oil and Gas

NOV 1 5 2017

WV Department of Environmental Protection

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) 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 adequate 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.

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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

objection to a permit being issued on those materials.			k described in these materia	is, and I have no
FOR EXECUTION BY A NAT ETC.			FOR EXECUTION BY A	CORPORATION, Teth Service Center
	Date	Name	MTHall	
Signature		By Its	Mit. Hall Vice Resident	Date (1-14-1
			Signature	Date

WW-9 (5/16)

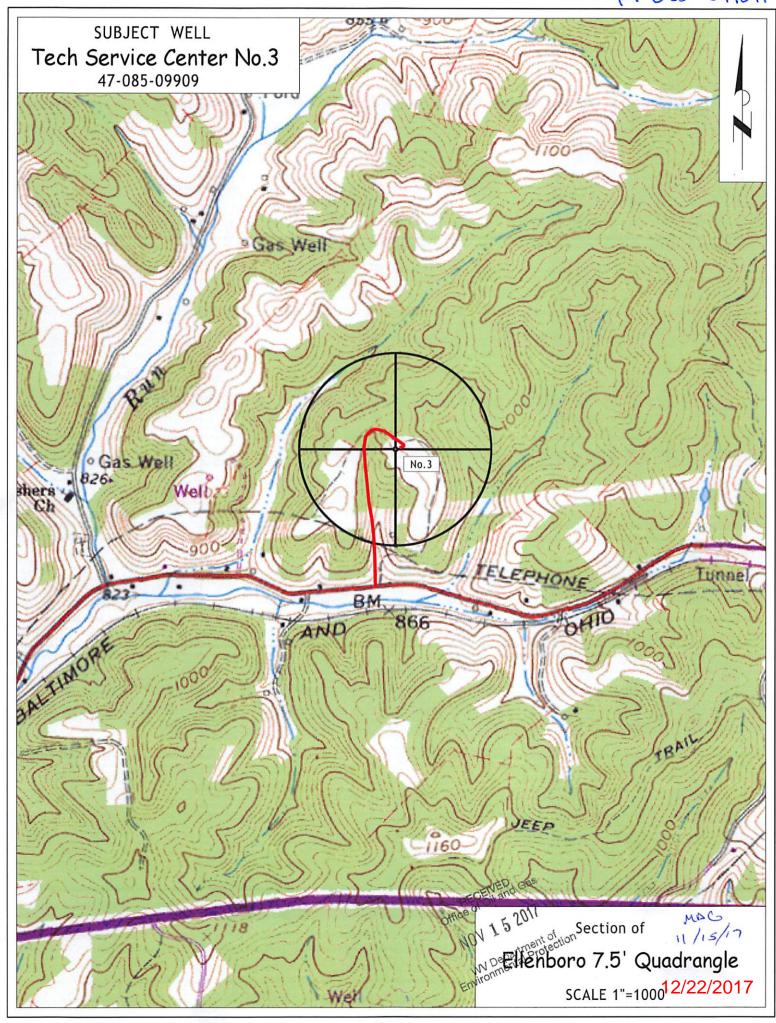
API Number 47 -	085	_ 09909
Operator's Well No	. Tecl	Service Center No.3

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION FLAN
Operator Name Hall Drilling, LLC OP Code 494480467
Watershed (HUC 10) Hushers Run Quadrangle Ellenboro 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes No V If so, what ml.?
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP)
Underground Injection (UIC Permit Number)
Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) RECEIVED Office of Oil and Ga
Other (Explain_ Any fluids will be hauled for off site disposal at an authorized site to be determined at the time the well is plugged NOV 1 5 2017
W// Department of
Will closed loop systembe used? If so, describe: NA WV Department of Environmental Protections Environmental Protections NA
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA
-If oil based, what type? Synthetic, petroleum, etc. NA
Additives to be used in drilling medium? NA
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cuttings or associated waste rejected at any
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature MI Hall
Company Official (Typed Name) M.T. Hall
Company Official Title Designated Agent
Company Official Title
Subscribed and sworn before me this 14th day of November, 2017
Notary Public
My commission expires OQ 30 2672 Notary Public Notary Publ

Operator's Well No. Tech Service Center No.3

Eime 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 Fertilizer amount 500 Ibs/acre Mulch Straw 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40 Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 ** Sediment Control Will Be In Place At All Times ** Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dime (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.	Proposed Revegetation Treatm				ьН
Fertilizer amount 500 lbs/acre Mulch Straw 2 Tons/acre	Lime 3	Tons/acre or to o	correct to pH	6.5	
Seed Mixtures Temporary Seed Type lbs/acre Seed Type lbs/acre Tall Fescue 40 Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 ** Sediment Control Will Be In Place At All Times ** Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been rovided). If water from the pit will be land application (unless engineered plans including this info have been rovided). If water from the pit will be land application area. Photocopied section of involved 7.5' topographic sheet.	Fertilizer type 10-20	0-20			
Seed Mixtures Temporary Seed Type Ibs/acre Tall Fescue 40 Ladino Clover 5 ** Sediment Control Will Be In Place At All Times Approved by: Alta Approved by: Man Approved by: ** Attack: ** Seed Mixtures Seed Type Ibs/acre Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 ** Sediment Control Will Be In Place At All Times ** ** Sediment Control Will Be In Place At All Times ** ** ** ** ** ** ** ** **	Fertilizer amount 5	00	lbs/ac	ere	
Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40 Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 ** Sediment Control Will Be In Place At All Times ** Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dime L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.	Mulch_ Straw	2	Tons/acre		
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Tall Fescue 40 Ladino Clover 5 ** Sediment Control Will Be In Place At All Times ** Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been rovided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dime L, W), and area in acres, of the land application area. Chotocopied section of involved 7.5' topographic sheet.	Ten	porary		Perm	anent
Ladino Clover 5 Ladino Clover 5 ** Sediment Control Will Be In Place At All Times ** Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dime (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.	Seed Type	lbs/acre		Seed Type	lbs/acre
** Sediment Control Will Be In Place At All Times ** Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimentally, which is the provided section of involved 7.5' topographic sheet. Plan Approved by: ** Sediment Control Will Be In Place At All Times ** ** Attach: ** Attach: ** Attach: ** Attach: ** Attach: ** Authority of the pit will be land application area. ** Photocopied section of involved 7.5' topographic sheet. ** Plan Approved by: ** Attach: ** Atta	Tall Fescue	40		Tall Fescue	. 40
Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensionally, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: MALLAL JAMES APPROVED BY TO STANDARD A	Ladino Clover	5		Ladino Clover	5
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	Maps(s) of road, location, pit brovided). If water from the pL, W), and area in acres, of the Photocopied section of involv	it will be land applied ne land application an	d, provide water rea.	n (unless engineered plans incluvolume, include dimensions (L	, W, D) of the pit, and dim REC Office of WV D
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WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FURNI: GPS	
{API:} 47-085-09909	WELL NO.: 3	
FARM NAME: Tech Serv	vice Center	
RESPONSIBLE PARTY NAME:	Hall Drilling, LLC	
COUNTY: Ritchie	_{DISTRICT:} _ Clay	
QUADRANGLE: Ellenbor	o 7.5'	RECEIVED Office of Oil and Gas
SURFACE OWNER: Tech	Service Center	Office of Oil and Gas
ROYALTY OWNER: Tech	Service Center	
UTM GPS NORTHING: 4,34	8,649	WV Department of Environmental Protection
UTM GPS NORTHING: 4,34	3,754 GPS ELEVATION	308 m.
The Responsible Party named above preparing a new well location plat fo above well. The Office of Oil and Gathe following requirements: 1. Datum: NAD 1983, Zone height above mean sea level. 2. Accuracy to Datum – 3.03 3. Data Collection Method: Survey grade GPS: Post Pro-	r a plugging permit or assigned API in as will not accept GPS coordinates the coordinate. The coordinate Units: meters well (MSL) — meters.	number on the at do not meet
Real-Ti	me Differential	
Mapping Grade GPS X: Post		
Real	-Time Differential	
4. Letter size copy of the to I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and O	required by law and the regulations is	wledge and
Signature	Designated Agt. Title	11-14-17 Date