

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, March 19, 2019 WELL WORK PERMIT Horizontal / New Drill

CUNNINGHAM ENERGY LLC 3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Re: Permit approval for HAYS 9H

47-039-06393-00-00

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

Cr

Operator's Well Number: HAYS 9H
Farm Name: CUNNINGHAM ENERGY, LI

U.S. WELL NUMBER: 47-039-06393-00-00

Horizontal New Drill Date Issued: 3/19/2019

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. 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 with 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. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

See attached letter.



Mr. Jeffrey McLaughlin WV DEP Office of Oil and Gas

Addendum to Hays 1H, 2H, 3H, 4H, 5H, 9H & 10H

Mr. McLaughlin:

The following wells are producing wells in the same area and in the same formation and we will monitor during both the drilling and fracking process:

Brown Perdue #1 – 47-03906282 Brown Perdue #2 – 47-03906283 Rollins 2A – 47-03906325 White 2A – 47-03906351

We anticipate the treating pressures will be between 2400 – 3000 psi.

Sincerely,

Danielle N. Boggs

Danielle Boggs

Cunningham Energy, LLC

WW - 2B (Rev. 8/10)

STATE OF WEST VIRGINIA

CK # 11896 3/8/2019

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Opera	tor: CUN	NINGHAM E	ENERGY, LLC	494508594	KANAWHA	BIG SANDY	BLUE CREEK
				Operator II	County	District	Quadrangle
2) Operator's	Well Nun	nber: <u>HAY</u>	S 9H		3) Elevation	872'	_
4) Well Type:	(a) Oil	or G	as				
	(b) If Gas	: Prod	uction X / U	nderground St	orage		
		Dee	ep/	Shallow X			
	otal Dept e fresh w	h:2,000TVI	o-6080MD Feet a depths: 200'	Formation at	Proposed Ta Proposed Tot	rget Depth: _ al Depth: _WE	2,000'
9) Approximat	e coal se	am denth	s: NO COAL L	ISTED			
				20010			
10) Approxima	ate void d	epths,(co	al, Karst, other)	: NONE			_
11) Does land	contain o	oal seam	ns tributary to ac	ctive mine?	NONE		
12) Describe pr	oposed w	ell work ar	nd fracturing met	hods in detail (a	attach addition	al sheets if nee	eded)
SHOE SYSTEM	AND PER	FORATE.	THO MEDITIN	- VVLLE. VVL I	AN TO KON I	ne weating	RFORD WET
					P		
13)		CA	ASING AND TU	BING PROGR	AM	3-12-19	
TYPE S	SPECIFIC			FOOTAGE	INTERVALS	CEMEN	NT.
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	Ft.)
Conductor	20"	LS	65 LBS	30'	30'	CTS	3-24
Fresh Water	13 3/8"	LS	43.6 LBS	400'	400'	CTS	
Coal							
Intermediate	9 5/8"	AT-50	26 LBS	1,900'	1,900'	CTS	
Production	5 1/2"	P-110	20 LBS	6,080'	6,080	CTS	
Tubing							
Liners							
Packers: Kind Size Dept		161					

WW-2A (Rev. 6-14)

1). Date: FEBR

FEBRUARY 22, 2019

2.) Operator's Well Number

HAYS 9H County

State

Permit

3.) API Well No .:

47- KANAWHA

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

	vner(s) to be served:	5) (a) Coal Operator	
(a) Name	CUNNINGHAM ENERGY, LLC	Name	
Address	3230 PENNSYLVANIA AVENUE	Address	
	CHARLESTON, WV 25302		
(b) Name		(b) Coal Owner(s) with Declarat	ion
Address		Name	
	7	Address	
(c) Name		Name	
Address		Address	
6) Inspector	TERRY URBAN	(c) Coal Lessee with Declaration	n
Address	P.O. BOX 1207	Name	
	CLENDENIN, WV 25045	Address	
Telephone	304-549-5915		
	TO THE PERSONS NA	AMED ABOVE TAKE NOTICE THAT:	
Included is t		g contract or contracts by which I hold the	
OR			
X Included is t	he information required by Chapter 2	2, Article 6, Section 8(d) of the Code of W	est Virginia (see page 2)
I certify	that as required under Chapter 22-6	of the West Virginia Code I have serve	d copies of this notice and
=	Personal Service (Affidavit atta Certified Mail (Postmarked post Publication (Notice of Publication)	stal receipt attached)	
I have re		nd 35 CSR 4, and I agree to the terms a	and conditions of any permit
issued under this			and deposit of the control of the co
I certify	under penalty of law that I have per	sonally examined and am familiar with th	e information submitted on
this application f	orm and all attachments, and that b	ased on my inquiry of those individuals in	mmediately responsible for
obtaining the info	ormation, I believe that the information	n is true, accurate and complete.	
	are that there are significant penaltie	s for submitting false information, includin	g the possibility of fine and
imprisonment.	Well Operato	CUNNINGHAM ENERGY, LLC	
WEST .	Official Seal By	RYAN E. M. CUNNINGHAM	
Modary Puth	le of West Virginia	: MEMBER	BECEIVED
200	COLUMN TO THE PARTY OF THE PART	: 3230 PENNSYLVANIA AVENUE	Office of Oil and Gas
River	VV 25164 2	CHARLESTON, WV 25302	omoc of off and odd
City Scilling	Telephone	304-344-9291	MAR 1 1 2019
	Email	: RYAN.CUNNINGHAM@CUNNINGHAMENERGY	
Subscribed and	sworn before me this the day of		
			WV Department of Environmental Protection
	M.M.	Notary Public	
My Commission	Expires January 28, 200	12	
Oil and Gas Privacy	Notice		
The Office of Oil and	Gas processes your personal information	such as name address and them	

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 depprivacyofficer@wv.gov

WW-2A Surface Waiver (4/16)

SURFACE OWNER WAIVER

County	KANAWHA	Operator Operator well number	HAYS 9H
	INSTRUCTIONS	TO SURFACE OWNERS NAMED ON PA	GE WW2-A
If the surface appeared on be the only ov are valid for 2	tract is owned by more that the Sheriff's tax ticket on the vner who will actually received months. If you do not own you know who it is. Also, place NOTE: YOU	e WW2A is applying for a permit from the St in three persons, then these materials were land or because you actually occupy the s these materials.) See Chapter 22 of the Wany interest in the surface tract, please forwalle lease notify the well operator and the Office ARE NOT REQUIRED TO FILE ANY COM- OMMENTS AND OBTAIN ADDITIONAL IN	e served on you because your name surface tract. In either case, you may /est Virginia Code. Well work permits ward these materials to the true owner e of Oil and Gas.
Department of 601 57th St.	AV 25304 50 and methods for filing come his Application. You have For son or received in the mail to date. Check with your postnern contacted by the well operated in these materials, then the ments must be in writing. One and well number and the name of the proposed well work will come soil erosion and sediment amage would occur to public the proposed well work fails the applicant has committed at the rules promulgated under the soil erosion and sediments.	iments. The law requires these materials to interpret (15) DAYS after the filing date to five the Chief's office by the time stated above the chief's office by the chief's offi	file your comments. Comments must ve. You may call the Chief's office to o arrange special expedited handling. tement of no objection" to the planned dress and telephone number, the well site including district and county from phs to support your comments. mments on the following grounds:

List of Water Testing Laboratories. 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 Form WW2-B, a survey plat, WW-9, and a soil 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			FOR EXECUTION BY A CARRENTION, ETC. Office of Oil and Gas			
		Date	2/22/2019	Company Name	AA A D	1 1 2019
	Signature			By Its	INTERNA	Data
_	Defeat Name				WV D Environn	epartment of Date nental Protection
	Print Name				Signature	Date

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County_KANAWHA Operator_CUNNINGHAM ENERGY, LLC	Operator's Well Number HAYS 9H
INSTRUCTIONS TO C	COAL OPERATOR, OWNER, OR LESSEE
any objection you wish to make or are re	essee named on page WW2-A. You are hereby notified that equired to make by WV Code 22-6-15, 16 or 17, must be filed as within fifteen (15) days after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	
	WAIVER
location has examined this proposed we location, the well location has been added	/ owner/ lessee/ of the coal under this well ll location. If a mine map exists which covers the area of welled to the mine map. The undersigned has no objection to the n, provided, the well operator has complied with all applicable and the governing regulations.
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION, ETC.
Date	
Signature	By Its Date
	Olas Assa
	Signature Date

RECEIVED
Office of Oil and Gas

MAR 1 1 2019

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
H & L TRUST	CUNNINGHAM ENERGY, LLC	1/8	264-294

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 he reby 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

RECEIVED
Office of Oil and Gas

MAR 1 1 2019

WV Department of Environmental Protection

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:

CUNNINGHAM ENERGY, LLC

PRESIDENT

WW-2B1	I
(5-12)	

Well No.	HAYS 9H

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 Laboratory Name

STURM ENVIRONMENTAL

Sampling Contractor

HUPP SURVEYING

Well Operator

CUNNINGHAM ENERGY, LLC

Address

3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Telephone

304-344-9291

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.

Office of Oil and Gas

MAR 1 1 2019

WV Department of Environmental Protection

HUPP Surveying & MappingP.O. BOX 647

GRANTSVILLE, WV 26147

(304) 354-7035

FAX: (304) 354-6548

January 8, 2019

RE: Water Samples for Hays #9H

There appears to be three (3) potable water source within 1,500' of Hays #9H, therefore tests should be offered and samples taken as required.

- Veronica Loss
 677 Wolverton Mtn. Rd.
 Clendenin, WV 25045
 Tax Map 18 Parcel 149
- 2. Betty & William White 548 Wolverton Mnt. Rd. Clendenin, WV 25045 Tax Map 18 Parcels 149.1 & 150
- David & Thelma Strickland 166 White Hollow Rd Elkview, WV 25071 Tax Map 18 Parcel 134

Office of Oil and Gas

MAR 1 1 2019

WV Department of Environmental Protection

API Number	47 - 0	39 _	06393	H
Operator's W	ell No.	HAYS 9H		

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CUNNINGHAM ENERGY, LLC OP Code 494508594
Watershed (HUC 10) ELK RIVER Quadrangle BLUE CREEK 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes 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 2D0392210 Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop systembe used? If so, describe: YES, WE WILL UTILIZE A CLOSED LOOP TANK SYSTEM
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. AIR; FRESHWATER
-If oil based, what type? Synthetic, petroleum, etc.
Additives to be used in drilling medium? SOAP; KCL and/or CLAY STABILIZER
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LANDFILL
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) CEMENT & LIME -Landfill or offsite name/permit number? CITY OF CHARLESTON LANDFILL Permittee shall provide written notice to the Office of Oil and Gas 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 Company Official Title PRESIDENT
subscribed and sworn before me this day of day of
Notary Public Joseph M Meast Virginia 1 y commission expires Joseph M Meast Virginia 20 1/2 Walnut St Raveriswood, Viv 25164 My commission expires January 23 2020

Operator's Well No. HAYS 9H

Lime 3	Tons/acre or to corre	ot to -U	6.5	11, 17	00 F. W.	UNKNOWN
Fertilizer type		ст ю рн	0.0			
Fertilizer amount	40 -011	Ibs/ac				
Mulch			ie			
Mulch		Tons/acre				
		Seed Mi	tures			
Т	`emporary			Pe	rmanei	nt
Seed Type	lbs/acre			Seed Type		lbs/acre
KY - 31	40	(DRCHI	D GRAS	S	15
ALSIKE CLOVER	₹ 5	-	LSIKE	CLOVER		5
ANNUAL RYE	15					
L, W), and area in acres, of	it and proposed area for land pit will be land applied, pro the land application area. lved 7.5' topographic sheet.	l application vide water v	(unless engi olume, inclu	ineered plans in de dimensions	cluding (L, W,	this info have D) of the pit, as
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	the land application area. Ived 7.5' topographic sheet.	vide water v	olume, inclu	de dimensions	cluding (L, W,	this info have D) of the pit, a
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Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	the land application area. Ived 7.5' topographic sheet.	vide water v	olume, inclu	de dimensions	cluding (L, W,	this info have D) of the pit, an
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	the land application area. Ived 7.5' topographic sheet.	vide water v	olume, inclu	de dimensions	cluding (L, W,	this info have D) of the pit, and
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of involan Approved by:	the land application area. Ived 7.5' topographic sheet.	vide water v	olume, inclu	de dimensions	cluding (L, W,	this info have D) of the pit, an
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	the land application area. Ived 7.5' topographic sheet.	vide water v	olume, inclu	de dimensions	cluding (L, W,	this info have D) of the pit, an

N/A

WW-9- GPP Rev. 5/16

Page	1	of_	2
API Number 47 -	-		
Operator's Well No. HAYS 9H			

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

Operator Name: CUNNINGHAM ENERGY, LLC Watershed (HUC 10): ELK RIVER	Quad: BLUE CREEK 7.5'
arm Name: HAYS HEIRS, ET. AL.	- Anna-
IIII Name.	
List the procedures used for the treatment and dischar groundwater.	rge of fluids. Include a list of all operations that could contaminate the
NO PIT.	
Describe procedures and equipment used to protect gro	oundwater quality from the list of potential contaminant sources above.
NO PIT.	
List the closest water body, distance to closest water discharge area.	r body, and distance from closest Well Head Protection Area to the
discharge area.	r body, and distance from closest Well Head Protection Area to the
discharge area.	r body, and distance from closest Well Head Protection Area to the
discharge area.	r body, and distance from closest Well Head Protection Area to the
List the closest water body, distance to closest water discharge area.	r body, and distance from closest Well Head Protection Area to the
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discharge area.	r body, and distance from closest Well Head Protection Area to the
discharge area.	r body, and distance from closest Well Head Protection Area to the
NO. PIT.	
discharge area.	y regulated for groundwater protection.
Summarize all activities at your facility that are already	y regulated for groundwater protection.
Summarize all activities at your facility that are already	y regulated for groundwater protection. RECEIVED Office of Oil and
NO. PIT. Summarize all activities at your facility that are already	y regulated for groundwater protection. RECEIVED Office of Oil and
NO. PIT.	y regulated for groundwater protection. RECEIVED Office of Oil and

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

ww	-9-	GPI
Rev	5/1	6

Page 2 of 2

API Number 47 - 039

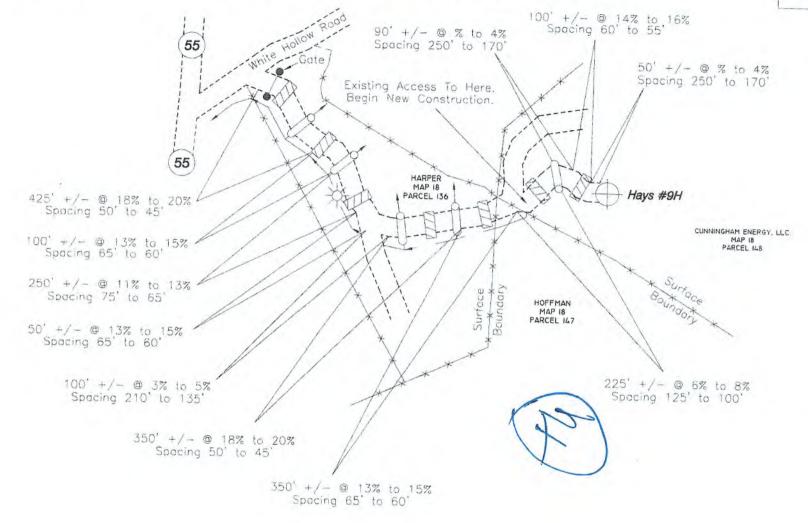
Operator's Well No. HAYS 9H

NO PIT.		
6		
Provide a statement that no waste mate	rial will be used for deicing or fill material on the pr	roperty.
O PIT.		
	4.	
		4
Describe the groundwater protection is provide direction on how to prevent gro	nstruction and training to be provided to the emploundwater contamination.	oyees. Job procedures shall
O PIT.		
	aspections of all GPP elements and equipment.	
O PIT.		
		RECEIVED
		Office of Oil and G
gnature:		MAR 1 1 2019
		WV Department Environmental Prote
ate: 2/22/2019		Environmental Prote

Form W-9

CUNNINGHAM ENERGY, LLC.

Page 1 of 2



Install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE MOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH BEP, DIL AND DAS BRY MANUAL ENTRANCES AT COUNTYSTATE QUADS SHALL BE MAINTAINED IN ACCORDANCE WITH VV DOJ. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE DOJ.

SCHIMENT BASINS, TRAPS AND APPROPRIATE ERDSION CONTROL BARRIERS ARE TO BE CONCERNICATED AT ALL CULVERT AND CHOISE BRAIN INACTS AND OUTLETS AS REQUIRED TO DICK MY OFF OIL AND GAS BUP MANAGE. FIELD CONTRIBUTIONS CROSS COLDEROPS AND ADMINISTRATION OF THE CONTROL O

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR MOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT

TEMPOPARTLY SEED AND MUCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN GRANTER AND THICKER STACK BRUSH BELOV LOCATION FOR SEGMENT CONTROL.

HUPP Surveying & Mapping Drafted By

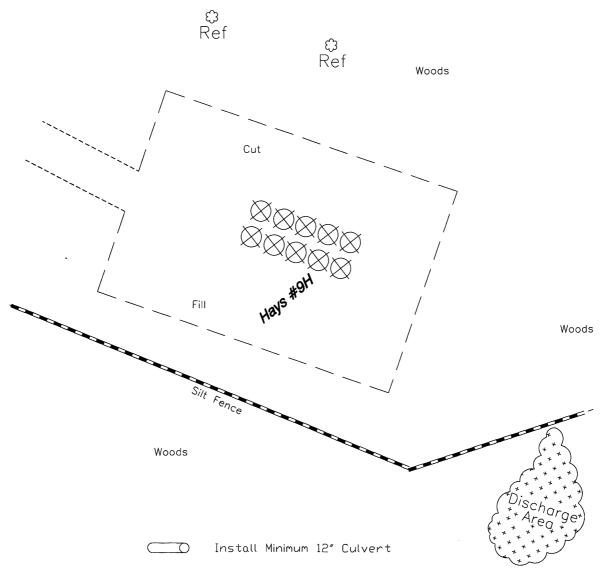
P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net HAYS #9H

Drafted BY: Date Drafted: Job Number:

DB 01/08/19 W2019737

Woods

Not To Scale



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DE.P. DIL AND GAS BMP MANUAL. ENTRANCES AT COUNTY-STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.D.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.D.T.

SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND DUTLETS AS REQUIRED IN THE WV D.E.P. DIL AND GAS BMP MANUAL. FIELD CONDITIONS KROCK DUTCROPS AND BEDROCKY MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE COMDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

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Office of Oil and Gas

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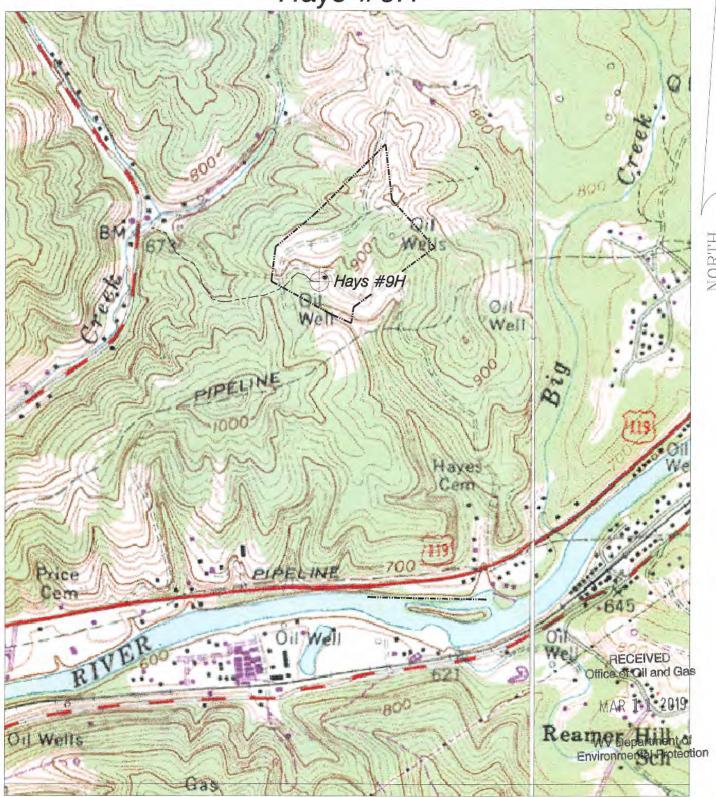
WV Department of Environmental Protection

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Form W-9

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Page 1 of 1



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