

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

March 01, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301484, issued to HG ENERGY, 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.

Operator's Well No: E. T. SPURLOCK 7

Farm Name: BROYLES, SANDRA ROGERS

API Well Number: 47-4301484 Permit Type: Plugging

Date Issued: 03/01/2016

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_January 20,	20 16
2)Operator's	
Well No. ETSpurlock 7	
3) API Well No. 47-043	- 1484

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

	33333 33 333 333									
	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON								
4)	Well Type: Oil <u>X</u> / Gas <u>X</u> / Liquid (If "Gas, Production <u>X</u> or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_x								
5)	Location: Elevation 885' District Duval	Watershed Hayzlett Fork County Lincoln Quadrangle Garrett's Bend 7.5'								
6)	Well Operator Address Address HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101	7) Designated Agent Diane White Address 5260 Dupont Road Parkersburg, WV 26101								
8)	Oil and Gas Inspector to be notified Name Jeremy James Address P. O. Box 36 Clendenin, WV 25045	9) Plugging Contractor Name To Be Determined Upon Approval of Permit Address								
10)	Work Order: The work order for the mann	ner of plugging this well is as follows:								
	** See Attach	ed Sheet **								

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

Alph

FEB 0 5 2016

Wy Date of the Protection 03/04/2010

WW-4B - Conti Rev. 2/01

1)	Date: Ja	anuary 20	0, 20	16		
2)	Operator's Well	Number				
	El	Γ Spurlo	k 7			
3)	API Well No:	47	-	043	-	1484
		State		County		Permit

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4)	WELL TYPE:	Oil		x Gas , Production	х	Liquid Injec Undergroun		Waste Dispo) Deep	-	allow x
5)	LOCATION:	Elev	ation:	885'		Watershed:	Hayzlett For	k		
		Dist	rict:	Duval		County:	Lincoln	Qı	adrangle	Garretts Bend 7.5'
6)	WELL OPERAT	OR:	HG Ener	gy, LLC		494497948	7) DESIGNAT	ED AGENT	Diane W	hite
	Address		5260 Du	ont Road				Address	5260 Du	pont Road
			Parkersb	ırg, WV 26101					Parkersb	ourg, WV 26101
8)	OIL & GAS INS	PECT	OR TO E	E NOTIFIED			9) PLUGGING	CONTRACTO	OR	
	Name	Jeren	ny James				Name	To Be Determ	nined Upon	Approval of Permit
	Address	P.O	. Box 36				Address			
		Clen	denin, W	V 25045						
-										

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

TD- 2,438'

Manners of plugging;
Plug #1 - 2200 2100 2350 7=5 = T if bebu 2250
Located above the birth at 1 Free point, part and pull 4 1/2" casing at approx 1800' if unable to pull, Set 108ft Cement plug available 2 - Approx. 1850' - 1750' Cut **Cut again + pull below Seo (eve).

Located at 4 1/2" casing stub

Plug #3 - 950' - 850'

Plug #3 - 950' - 850'

Located at elevation

Plug #4 - 330' - 230'

Located at 8 5/8" casing shoe/fresh water

Plug #5 - 100' - 0'

Surface

Recover all possible casing. If casing can not be recovered, perforate for plug placement.

Monument -

6" minimum diameter metal pipe 30" above surface

10' in well below surface

Sealed with cement

API identification (1/2") height numbering

6% Gel between all plugs

RECEIVED Office of Oil and Gas

FEB 0 5 2016

WV Department of Environmental Protection 03/04/2016

Well:	Well: E.T. Spurlock 7									ve surface. 10'
	Elevation: 89	94'				ın	ito weii. 6		it. API i.D.	, sealed with
Casin	ng Information			5		+	1	75 sacks	s cement to	o surface
Size	Depth	Weight		1000				.75 Sacks	s cement d	o surface
8 5/8"	279'	9.5#/ft.					Freen	oint C	ut and Di	ull Casing
4 1/2"	2428'	20#/ft.			111-2		Siz		Approx.	
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cubic ft. per vert										
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Sacks per vertica	l ft donth									
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0.162906564	+						10.	ala a a tr) - uf - u - ti	22011
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Yield op										
50/50 posmix 6%	10.00			1						
Neat w/ salt flake										
50/50 w/ 2% gel	= 1.27			TD 243	8'					

Preliminary Report PENNZOIL COMPANY

NEW WELL REPORT

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E. T. S	purlocl	.		FARM	WELL NO. 7	N			w_ <u>73</u>
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03/04/2016

NEW WELL REPORT - CONTINUED

INITIAL TORPEDO RECORD			SING A		BING	RECOR	D		
Date of Shot	SIZE		JT IN WE				PULLED		·
Date of Shot	8-5/8"	TRANSFER		78 1		TRANSPE	H NO.	FEET	INCH
Name of Torpedo Co.	4-1/2"			26 I					
No. of Quarts	4-4/6	•		<u>υ μ</u>	<u>~</u> ⊩				┯
Length of Shell	1	· · · · · · · · · · · · · · · · · · ·		$\neg \vdash$					
Diameter of Shell				\uparrow	─		·	-	
Length of Anchor	·								
Top of Shot									
Bottom of Shot	<u> </u>	·			_ _				
Feet of Fluid in Hole When Shot			_	<u> </u>	_			ļ	<u> </u>
Results:	┃				-	<u> </u>	•		<u> </u>
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INITIAL PROPULATION	.			CER F				···	•
INITIAL PRODUCTION FIRST 24 HOURS	KIN		sı:			TH SET		ATE SET	
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Rock Pressurelbshrs.	 		<u></u>		+ ·				<u>. </u>
Oilbbls., First 24 hrs.	 		<u></u>		+	<u> </u>			
	II Carron								
ACIDIZATION OR FRACTURING RECORD				CAS	ING C	EMENT	LED		_ ;
DATE WELL ACIDIZED			- mendin-pe			•			
DATE WELL FRACTURED		8-	5/8"sız	E 278	-80 -	. 11-	18-73	3	_Date
NAME OF COMPANY									
(List below materials used in Acidizing or Fracturing, i.e., Sand, Crude	Oil, Gasoline	BAG	s Usenl	75 BK	S Ne	t Cen	em j	5% CC	
Water, Kerosene, Mothballs, Acid, etc., giving gallons, barrels and po	ounds.)		<u>1/2 إ.</u>	₋ 2425	.00 -	_ 11-	21-73	}	DATE
		'							
		BAG	s Used_						
		BAG	s Used_	50 sk	s 50,	/50 Po	zmix		CC_
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WW-4A Revised 6-07

1) Date: Jar	nuary 20, 2016		
2) Operator's Wel	l Number		
E. T. Spurlock 7			
3) API Well No.: 4	7 - 0	43 -	1484

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

Surface Owner(s) to be served: (a) Name		HOTTO	1 01 111 1 LICITII	on ro r no m		
(a) Name Address 1909 Garretts Bend Road Address Sod, WV 25664 (b) Name Vernor & Kathy Adams V Address 16 Brooks Road Name NA Address (c) Name Address (d) Name Address (e) Name Address (f) Name Address (h) Road Name NA Address (g) Name Address (h) Name NA Address (h) Notary Public	4) Surface Ow	mer(s) to be serve	ed: 5)	(a) Coal Operator		
Address 1908 Garrett's Bend Road Address			V			
(b) Name Address Address Address (c) Name Address (d) Name Address (e) Name Address (f) Inspector Address (g) Inspector Address (h) Mame Address (h) Coal Lessee with Declaration Name NA Address (h) Mame Address (h) Mame Address (h) Mame NA Address (h) Form and the following documents: (h) Form and the followin			Road		9	
Address (c) Name Address (c) Name Address (d) Name Address (e) Coal Lessee with Declaration Name Na Address (f) Inspector (c) Coal Lessee with Declaration Name Na Address Telephone (g) Coal Lessee with Declaration Name Na Address Telephone (h) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (g) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses sit However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environment Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notic the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: Diana White Diana White		Sod. WV 25564	3		-	
Address (c) Name Address (c) Name Address (d) Name Address (e) Coal Lessee with Declaration Name Na Address (f) Inspector (c) Coal Lessee with Declaration Name Na Address Telephone (g) Coal Lessee with Declaration Name Na Address Telephone (h) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (g) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses sit However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environment Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notic the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: Diana White Diana White	(b) Name		ms V	(b) Coal Ow	ner(s) with Declarati	ion
Sod, WV 25564 Address	` '			The state of the s	THE STATE OF THE S	
(c) Name Address Address (d) Coal Lessee with Declaration Name Address Telephone To the persons name of the plugging work order; and (e) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (e) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses sit However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application a accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmen Protection, with respect to the well at the location described on the attached Application and depicted on the Abelianched Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: Dane White Well Operator By: Dane White Dane White Address Zego Dupont Road Parkensburg, WV 26101 Telephone Well Operator Telephone Well Operator By: Dane White Address Zego Dupont Road Parkensburg, WV 26101 Telephone Subscribed and sworm before me this20th	riddress			50 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -		
Address (c) Coal Lessee with Declaration Name NA Address Telephone TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents: (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes t well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses sit However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application a accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmen Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: Diane White Parkersburg, WV 26101 Telephone Subscribed and sworm before me this 20th day of January. 2016 Notary Public		000, 117 2000 1				
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OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRISHIA MARK J SCHALL H GE Energy LL C PO Box 5519, Venna, WW 20105 My Commission Expires November 2, 2021 Telephone By: Diane White Diane White Agent 5260 Dupont Road Parkersburg, WV 26101 304-420-1119 Subscribed and sworp before me this 20th Address Telephone Notary Public	Take notic accompany Protection, the Applic	you are not required to ta e that under Chapter 22- ying documents for a per with respect to the well ation, and the plat have	the any action at all. 6 of the West Virginia Comit to plug and abandon a lat the location described been mailed by registere	ode, the undersigned well of the well with the Chief of the on the attached Application of the certified mail or del	operator proposes to file or has Office of Oil and Gas, West on and depicted on the attache	s filed this Notice and Application an Virginia Department of Environmenta ed Form WW-6. Copies of this Notice
OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST WIRGINIA MARK J SCHALL H GE Energy LL C PO Box 5519, Venna, WY 28106 My Commission Expires November 2, 2021 Telephone By: Diane White Diane White Agent 5260 Dupont Road Parkersburg, WV 26101 304-420-1119 Subscribed and sworp before me this 20th day of January, 2016 Notary Public			W-II O			
NOTARY PUBLIC STATE OF WEST VIRGINIA MARK J SCHALL HEGENCY LLC PO Box 5519, Vienna, WY 28105 Parkersburg, WV 26101 Telephone Telephone 304-420-1119 Subscribed and sworp before me this 20th day of January, 2016 Notary Public	presecuteroposekanos	ang		Diana White	ane lalfit	
MARK J SCHALL H G Energy LL C PO Box 5519, Venna, W 28108 My Commission Expires November 2, 2021 Telephone Telephone Address Parkersburg, WV 26101 304-420-1119 Subscribed and sworp before me this 20th day of January, 2016 Notary Public	OTWEST DE NOTAGE		R	(wie vipule	
Parkersburg, WV 26101 Telephone Telephone Telephone Telephone Total day of January, 2016 Notary Public	自成改員	MARK J SCHALL	E .	-		
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Subscribed and sworm before me this 20th day of January, 2016 Notary Public			T-11		1	
Notary Public			Telephone	304-420-1119		
oil and Gas Privacy Notice Office of Oil and Co-	1 UV	1112				
Office of Oil and Co.	1y Commission	Thypres //	LUCUER .	2001	0	RECEIVEN
	il and Gas Priva	acy Notice			Off	ice of Oil and O-

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. 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.

Environmental Pro3/04/ business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our WW-9 (2/15)

API Number 47 - 043 - 1484
Operator's Well No. ET Spurlock 7

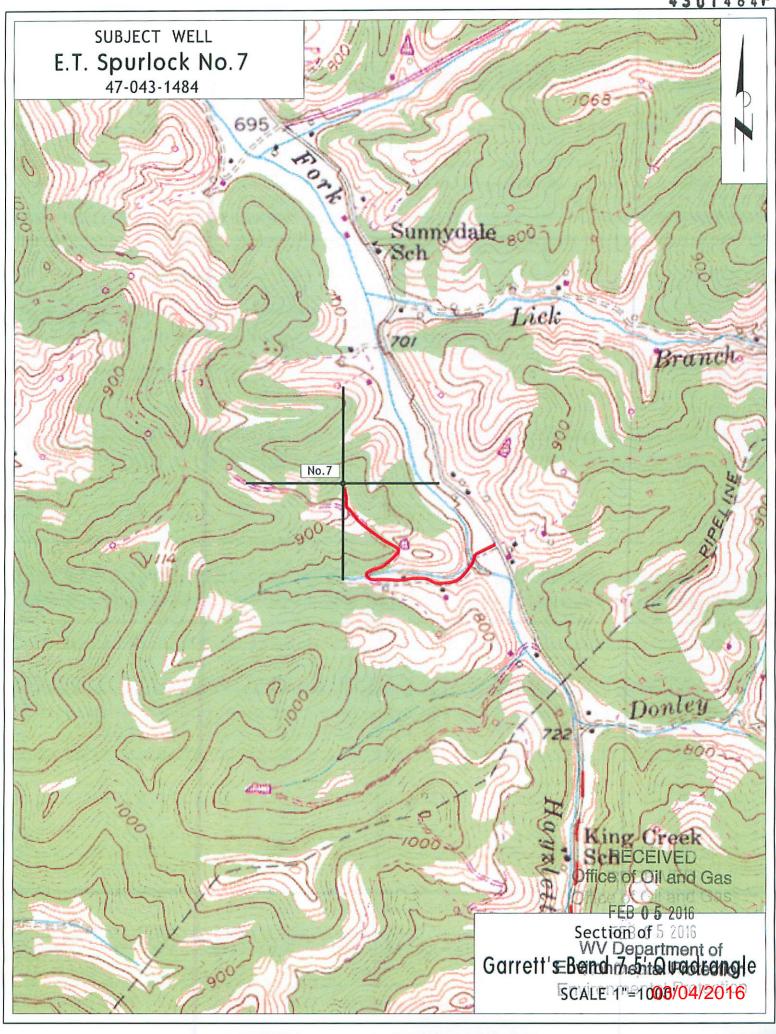
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name HG Energy, LLC	OP Code494497948	
Watershed (HUC 10) Hayzlett F	Fork Quadrangle Garrett's Bend 7.5'	
Do you anticipate using more that Will a pit be used? Yes	an 5,000 bbls of water to complete the proposed well work? Yes No _	<u>√</u>
•	nticipated pit waste: Fluids encountered while plugging subject well	
	e used in the pit? Yes No If so, what ml.? 30 mil	
	thod For Treated Pit Wastes:	T
	Application	
Under	erground Injection (UIC Permit Number)
	e (at API Number	
	ite Disposal (Supply form WW-9 for disposal location) (Explain	
Will closed loop system be used	? If so, describe: No	
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 n	medium?NA	
Drill cuttings disposal method?	Leave in pit, landfill, removed offsite, etc. NA	
-If left in pit and plan to	o solidify what medium will be used? (cement, lime, sawdust)_NA	
-Landfill or offsite name	ne/permit number? NA	
	notice to the Office of Oil and Gas of any load of drill cuttings or associated waste recy. The notice shall be provided within 24 hours of rejection and the permittee shall	
on August 1, 2005, by the Office provisions of the permit are enfo law or regulation can lead to enfo I certify under penalty application form and all attach obtaining the information, I bel	nd and agree to the terms and conditions of the GENERAL WATER POLLUTION of of Oil and Gas of the West Virginia Department of Environmental Protection. I use Torceable by law. Violations of any term or condition of the general permit and/or Torcement action. To of law that I have personally examined and am familiar with the information symmetry thereto and that, based on my inquiry of those individuals immediately lieve that the information is true, accurate, and complete. I am aware that the Tormation, including the possibility of fine or imprisonment.	nderstand that the r other applicable submitted on this y responsible for
Company Official Signature	Diane White	
Company Official (Typed Name		RECEIVED
Company Official Title Agent	Office	of Oil and Gas
		-EB 0 5 2016
Subscribed and sworn before me		OFFICIAL SEAL NOTARY PUBLIC: STATE OF WEST VIRGINIA
Les Se	Notary Public E	MARK J SCHALL HIG Energy LLC 1 PO Box 5519, Viennar, WV 28105
My commission expires ///o	VEMBER 2, 2021	My Commission Explres November 2, 2021

oposed Revegetation Treat	ment: Acres Disturbed1	1.1 acres Prevegetation p	оН
Lime	3 Tons/acre or to correc	et to pH 6.5	
Fertilizer type 10	-20-20 or Equivalent	<u>#</u>	
Fertilizer amount	500	lbs/acre	
Mulch Straw	2	_Tons/acre	
		Seed Mixtures	
Те	mporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
tach: awing(s) of road, location, ovided)	pit and proposed area for l	ace At All Times ** land application (unless engineered plans i	ncluding this info ha
tach: rawing(s) of road, location, ovided) totocopied section of invol	pit and proposed area for l	land application (unless engineered plans i	
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FEB **0** 5 2016

4301484P



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API:	47-	043 -	- 1484		_ WELL NO	0:	7		-
FARM NAME		E.T. Sp	ourlock No.7						_
RESPONSIBL	E PARTY NA	AME:	H.G. En	ergy, LLC					-
COUNTY:		Lincol	1		DISTRIC	T: <u> </u>	uval		_
QUADRANGL	Æ:		Garrett's Bend 7.5	<u> </u>					<u>-</u>
SURFACE OV	NER:		Sarah R. Broyles						.
ROYALTY OV	WNER:		H.G. Energy, LLC	et al.					-
UTM GPS NO	RTHING:		4,237,884	(NAD 83)	<u>.</u>		885.	BH.	
UTM GPS EAS	STING:		421,488	(NAD 83)	_GPS ELEVAT	ION:	270 m		-
preparing a nev	w well locati not accept C Datum: NA	on plat GPS coo D 1983	ve has chosen to sub for a plugging permordinates that do not , Zone:17 North, C sea level (MSL) - m	it on the abo meet the fo Coordinate U	ove well. The Of llowing requiren	fice of nents:			
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	vey Grade G		Post Processed Di Real-Time Differe				EIVED ii and (5 2016	rtment al Prote
Мар	oping Grade	GPS <u>></u>	C Post Processed Di Real-Time Differe		<u>X</u>		RECEIVED fice of Oil and	FEB 0	V Department of onmental Protection
•	ws all the inf	ormatio	is data is correct to n required by law ar Gas.		•		6		W Envir
Diane (Shite	D	iane C. White			ed Agent			-
Signature	November	24 2014			Title				
Date	November	24, 2013)	_					