

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 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Wednesday, August 03, 2016 WELL WORK PERMIT Vertical / Plugging - 2

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for 1 47-043-01721-00-00

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

Operator's Well Number: 1 Farm Name: NUNN, STONE W.

U.S. WELL NUMBER: 47-043-01721-00-00

Vertical / Plugging - 2

Date Issued:

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. <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 within two years of the date of issuance of this permit.

WW-4B Rev. 2/01

1) Date February 11	,	2016
2)Operator's		
Well No. SW Nunn 1		-
3) API Well No. 47-043		- 1721

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

	OFFICE OF	OIL AND GAS
	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
4)	Well Type: Oil X / Gas X / Liqui	d injection/ Waste disposal/
-,		derground storage) Deep/ Shallow_X
	(11 545) 1154455151 51 51	
5)	Location: Elevation 1079	Watershed Hayzlett Fork
-,	District Duval	County Lincoln Quadrangle Garrett's Bend 7.5' 3
	22002200	
6)	Well Operator HG Energy, LLC	7)Designated Agent Diane White
0,	Address 5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
	<u> </u>	
8)	Oil and Gas Inspector to be notified	9)Plugging Contractor
0,	Name Jeremy James	Name To Be Determined Upon Approval of Permit
	Address PO Box 36	Address
	Clendenin, WV 25045	
10)	Work Order: The work order for the man	mer of plugging this well is as follows:
	** See Attac	ched Sheet **
	000 / 11111	
		RECEIVE
		oil and gas inspector (24) hours before permitted
work	can commence.	and gas inspector (34) bottom permission of as
	~ J.	Environmental Protection 2016
Work	order approved by inspector Jelloty	(m/h 10 Pate 6-133/6
		Environ Department of
		- ivironmental Proto-
		08/09/2016

WW-4B - Conti Rev. 2/01

1)	Date:	February 11, 2016	
2)	Operator'	s Well Number	
		S W Nunn 1	

3) API Well No:

47 -State 043

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:		x Gas, Production	х	_Liquid Injec _Undergroun		je	_Waste Di		allow _	x
5)	LOCATION:	Elevation: District:	1079' Duval		Watershed:_ County:	Hay Line	zlett Forl		Quadrangle	Garret	tt's Bend 7.5'
6)	WELL OPERAT	OR: HG Ener	gv. LLC		494497948	7) DES	SIGNATE	ED AGENT	Diane V	Vhite	
-,	Address		pont Road			,		Address	70.07-30-30-30-	upont Ro	oad
		Parkersb	urg, WV 26101						Parkers	burg, W	V 26101
8)	OIL & GAS INS	PECTOR TO I	BE NOTIFIED			9) PLU	JGGING	CONTRAC	CTOR		
,	Name	Jeremy James				Nan	ne	To Be Det	ermined Upon	Approva	l of Permit
	Address	P. O. Box 36				Add	ress				
		Clendenin, W	V 25045								
									•		
10)	WORK ORDER	: The work or	der for the manner	of pl	ugging this w	ell is as	follows:				

TD- 2,612'

Manners of plugging;

Plug #1 - 2500' - 2400' \Sec

ISPOT GEL TO POTO OF 2596 BEDGE SETTING PLOG \$

Located above the highest perforation

Check for free-point at top of Big Lime (1864'), If pipe is free, part and pull. If pipe is not free, preforate for placement of plug #2.

Plug # 2 - Approx. 1950' - 1850'

Located at top of Big Lime - 4 1/2" casing stub

Plug #3 - 1125' - 1025'

Located at elevation, if pipe was not free at top of Big Lime, part and pull at elevation (1079')

If pipe isn't free at elevation, preforate for placement of plug #4. Find first available free-point above elevation, part and pull pipe. Set additional plug at 4 1/2" casing stub.

Plug #4 - 475' - 375'

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

Plug #5 - 100' - 0'

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



Well: S.W. Nunn #1 Monument to extend 30" above surface. 10' API: 47-43-1721 into well. 6" min metal pipe, sealed with cement. API i.D. Elevation: 1079' 5 \leftarrow 280 sacks cement to surface **Casing Information** Size Depth Weight 423' Freepoint Cut and Pull Casing 8 5/8" 20#/ft. 4 1/2" 2604' Size Approx. Depth 10.5#/ft. 1864' or 1079' 4 1/2 Cement Plugs Hole Size 6.75" \rightarrow NO. Bottom Тор 2500 2400 1 2 1950 1850 3 1125 1025 3 4 475 375 5 100 **Bottom Hole Cement Level Calculations** # Sacks Used Cement Depth 2391.167 50 **Casing Size Hole Size** Depth 2 Big Lime 1864' - 2033' 6.75 4.5 2612 \leftarrow diameter delta Conv. Factor bbls / ft. 25.3125 1029.4 0.02459 cubic ft. per vertical ft. depth 0.138058122 Sacks per vertical ft. depth 0.226415321 50 Sacks Cement T.O.C. 2391' \leftarrow Yield options Highest Perforation 255 50/50 posmix 6% gel = 1.64 Office of Oil and Gas Neat w/ salt flakes = 1.19 50/50 w/ 2% gel = 1.27 JUN 3 0 2015 TD 2612' WV Department of Environmental Protection 08/05/2016

PENNZOIL COMPANY Well Completion Report

	Lease: S. W. NUNN Well No. 1 New Well X Old Well
	District: Duval County: Lincoln State: West Virginia
	Pool Name: Griffithsville Northeast Pool No. 57 Elevation 1079.16' KB:QL
	Producing Formation: Berea Depth: From 2550' to 2571'
	Date Drilled In: October 11, 1976 Pays: 0il: From 2550' to 2571'
	Original Total Depth: 2612' Cas: From to
	Plug Back Depth: 2596' Gas: From 2550' to 2571' to to
	<u>Production</u> <u>Initial</u> <u>Present</u> <u>After Fracture</u>
	011
	Gas 8-578"
	Surface Csg. set @ 431' KB:EX Gr. H-40 New:Used Wt. 20# Collars ST&C
	Cement Reg. Neat Amount 280 Sacks Plug Down @ 10:30 XXX:PM Date 10/7/76
	Production Csg. set @ 2612'KB:XX Gr. ERW New:Used Wt.10.50# Collars ST&C
•	Cement <u>50/50 Posmix Amount_50 Sacks Plug Down @ 11:15 段</u> :PM Date 10/11/76
	Logged by: Basin Surveys Date: October 11, 1976
	Logs Used: Gamma Rav-Comp. Density-Caliper
	Perforated by: McCullough Date: November 18, 1976
*	Perforations: 2558'-2563' - 4 holes/ft 20 holes
	Treatment Data Breaking Fluid F.R. N.E. Fluid Sand Acid Solvent Gel Agent Loss Agent Agent
٠	Lease Type <u>Crude 20/40 15% HCl Parathin</u> 15-N
	Amount 570 27,000 500 55 2
	Breakdown Pressure: 1500 Treating Pressure: Max. 2600 Min. 2400 Avg. 2500
	Avg. Inj. Rate 30.5 BPM ISIP 1500 @ 4:10 XMM:PM 5 min. SIP 700 RECEIVED
	10 min. SIP 600 15 min. SIP 550 Other 1 hr. SIP 400# Oil and Gas
	EQUIPMENT USED JUN 3 0 2016
	Service Company: Halliburton HHP 1869
1	By: Jeffrey M. Beardmore Date Fractured: 17/8/76/17/19/16
	THURAUS (2016)

FORM No. 989 IM 9/66 M'G. 1917

PENNZOIL COMPANY

NEW WELL REPORT .

	53-00		10	9.05	Working Distr	Sout	hern Ar	ea	
Stone W.	Nunn			ACRES	Well No 1	N	0.00	M	ap No. 124-W w_72
Duval			Distri Tow:	71.0ml	Lincoln	Cou			Albans QUAD.
LOCATION MADE	Septemb				DRILLING COMM	0	tober 6	,	1976
DRILLING EQUIPMI	ENT USED		PUDDER		DRILLING COMP	LETED_OC	tober 1		76.
DRILLING EQUIPME FURNISHED BY	ENT FW.	A Drilli	ing Co.						
ELEVATION: FLOO	R 10'	79.16			DRILLING CONTR	ACTOR_F	WA Dril	ling Co	o
ELEVATION: GROUN	10	71.16			WORK ORDER NO	o			
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alt Sand	1534	1734							
hale	1734	1780				1			
alt Sand	1780	1831							1
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ig Lime	1864	2033							
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NEW WELL REPORT - CONTINUED

INITIAL TORPEDO RECORD					UBING	RECO			
or Shot	SIZE T	RANSFER	UT IN Y		Inc.	TOALL	PULLED		T.
	8 5/8	OHAFER	,,	427	18	TRANSF	ER NO.	FEET	INC
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et of Fluid in Hole When Shot			-						
sults:									
	11 11	**		-					
_			PAC	CKER	REC	ORD			
INITIAL PRODUCTION FIRST 24 HOURS	KIND			SIZE		PTH SET	1 1	ATE SET	
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Wywenereners of Environmental 08/05/2016

WW-4A	
Revised	6-07

1) Date:	February 11, 2016	
2) Operator	's Well Number	
S. W. Nunn 1		

3) API Well No.: 47 -

043 1721

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

(a) Name	Orville Nunn		Name	NA
Address	2340 Garrett's Bend Ros	ad	Address	
	Sod, WV 25564			
(b) Name			(b) Coal O	Owner(s) with Declaration
Address			Name	NA
			Address	
(c) Name			Name	
Address			Address	
			_	
6) Inspector	Jeremy James		(c) Coal L	Lessee with Declaration
Address	P. O. Box 36		Name	NA
riddicos	Clendenin, WV 25045		Address	144
Telephone	304-951-2596		nuitess	
relephone	00 7 00 7 2000			
However, y	you are not required to take a	nts is that you have rig	this regarding the appl	plication which are summarized in the instructions on the reverses side
Take notice accompany Protection, the Applica	vou are not required to take a e that under Chapter 22-6 of ving documents for a permit with respect to the well at t	ny action at all. 'the West Virginia Cod to plug and abandon a v he location described on n mailed by registered	e, the undersigned wel well with the Chief of to the attached Applica or certified mail or d	ell operator proposes to file or has filed this Notice and Application an f the Office of Oil and Gas, West Virginia Department of Environments attion and depicted on the attached Form WW-6. Copies of this Notice delivered by hand to the person(s) named above (or by publication is
Take notice accompany Protection, the Applica	e that under Chapter 22-6 of ving documents for a permit with respect to the well at tation, and the plat have bee	ny action at all. The West Virginia Cod to plug and abandon a v he location described or n mailed by registered day of mailing or delive	e, the undersigned well with the Chief of to the attached Applica or certified mail or d ary to the Chief.	ell operator proposes to file or has filed this Notice and Application an f the Office of Oil and Gas, West Virginia Department of Environments action and depicted on the attached Form WW-6. Copies of this Notice
However, y Take notice accompany Protection, the Applica certain circ	e that under Chapter 22-6 of ving documents for a permit with respect to the well at the ation, and the plat have been rumstances) on or before the	ny action at all. The West Virginia Cod to plug and abandon a v he location described on n mailed by registered day of mailing or delive Well Operator	e, the undersigned well with the Chief of to the attached Applica or certified mail or dary to the Chief.	ell operator proposes to file or has filed this Notice and Application an f the Office of Oil and Gas, West Virginia Department of Environments ation and depicted on the attached Form WW-6. Copies of this Notice delivered by hand to the person(s) named above (or by publication is
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However, y Take notice accompany Protection, the Applica certain circ	e that under Chapter 22-6 of ving documents for a permit with respect to the well at the ation, and the plat have been rumstances) on or before the	ny action at all. The West Virginia Cod to plug and abandon a value location described on mailed by registered day of mailing or deliver the west of the Well Operator By:	e, the undersigned well with the Chief of to the attached Applica or certified mail or dary to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Road	ell operator proposes to file or has filed this Notice and Application an f the Office of Oil and Gas, West Virginia Department of Environments ation and depicted on the attached Form WW-6. Copies of this Notice delivered by hand to the person(s) named above (or by publication is price where the price of the price o
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Take notice accompany Protection, the Applicacertain circonstant of the Applicacertain circonstant c	e that under Chapter 22-6 of ving documents for a permit with respect to the well at the ation, and the plat have been sumstances) on or before the sumstances.	ny action at all. If the West Virginia Cod to plug and abandon a virginia cod to plug	e, the undersigned well with the Chief of the the attached Application or certified mail or dary to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Road Parkersburg, WV 26	ell operator proposes to file or has filed this Notice and Application an f the Office of Oil and Gas, West Virginia Department of Environments cation and depicted on the attached Form WW-6. Copies of this Notice delivered by hand to the person(s) named above (or by publication in the Diane White
Take notice accompany Protection, the Applica certain circe Notary Public TYL 499 Mineral My Commission Subscribed and	e that under Chapter 22-6 of ving documents for a permit with respect to the well at the attention, and the plat have been sumstances) on or before the sumstances) on or before the sumstances on or before the sumstances. FICIAL SEAL, State Of West Virginia ER RITCHIE 99 Dale Drive Wells, WV 26150 on Expires June 23, 2020 on Expires June 24, 20	ny action at all. If the West Virginia Cod to plug and abandon a virginia cod to plug	e, the undersigned well with the Chief of the the attached Application or certified mail or dary to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Road Parkersburg, WV 26 304-420-1119 ay of February, 20	ell operator proposes to file or has filed this Notice and Application an fithe Office of Oil and Gas, West Virginia Department of Environmentation and depicted on the attached Form WW-6. Copies of this Notice delivered by hand to the person(s) named above (or by publication in Diana White Diana White Notary Public

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 (5/16)

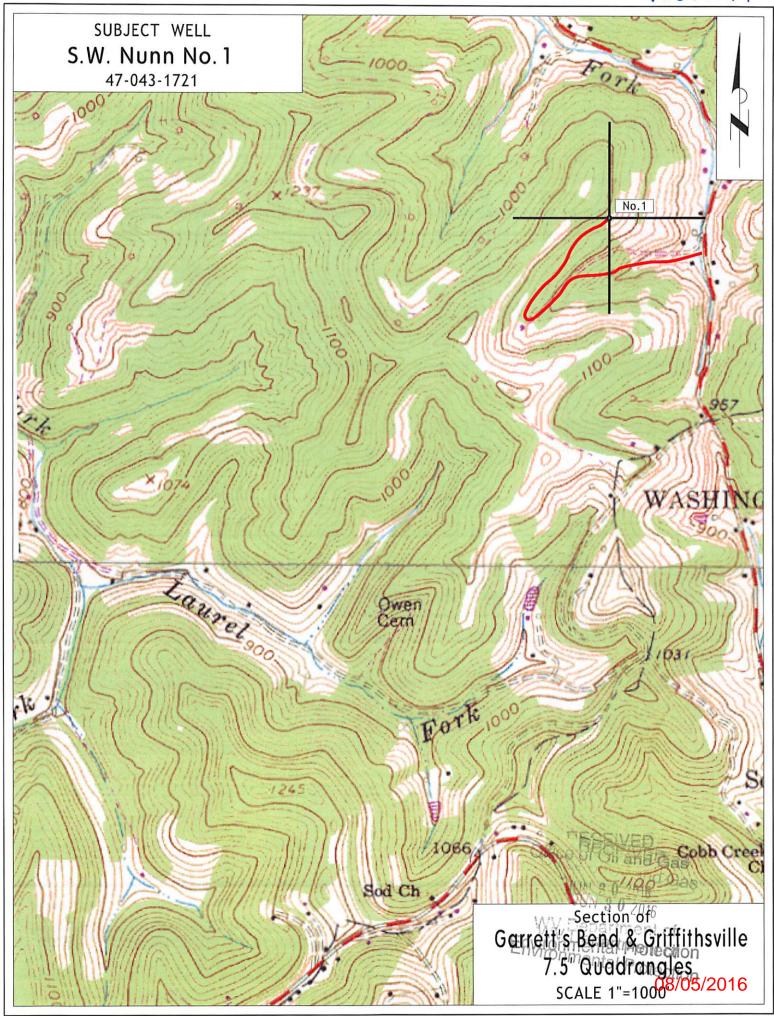
API Number	47 - 0)43 _	1721
Operator's We	ell No.	S W Nunn	1

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC	OP Code 494497948
Watershed (HUC 10) Hazlett Fork Quadrangle	e Garrett's Bend 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed	d well work? Yes No
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	
Proposed Disposal Method For Treated Pit Wastes:	AWY WELL REFLUENT MUST BE CONTAINED IN TANKS AND TAKEN TO
Land Application (if selected provide a completed for	2152 22
Underground Injection (UIC Permit Number	
Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal)	ocation)
Other (Explain Any fluids will be hauled for off site disposal at an a	authorized site to be determined at the time the well is plugged
Will closed loop system be used? If so, describe: NA	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwa	ater, 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 Gas of any load o	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	
on April 1, 2016, by the Office of Oil and Gas of the West Virginia Departmen provisions of the permit are enforceable by law. Violations of any term or condi-	
or regulation can lead to enforcement action.	
I certify under penalty of law that I have personally examined and application form and all attachments thereto and that, based on my inquiry of the	
the information, I believe that the information is true, accurate, and complete.	
submitting false information, including the possibility of fine or imprisonment.	OFFICIAL SEAL Notary Public, State Of West Virginia
Company Official Signature Diane White	Notary Public, State Of West Virginia TYLER RITCHIE
Company Official (Typed Name) Diane White	499 Dale Drive
Company Official Title Agent	My Commission Expires June 23, 2020
	I down for the contract of the
Subscribed and sworn before me this 11st day of February	Office of Oil and Gas
Indy Estett	N
My commission expires June 23, 2020	WV 5
Mry commission expires	WV Department of Environmental 08/05/2016
	08/05/2016

Form WW-9			Oper	itor's Well No. S W Nunn 1			
HG Energy,	LLC		Орега	HOIS WELL INO.			
Proposed Revegetation Treatm	nent: Acres Disturbe	d 1.3 acre	S Prevegeta	tion pH			
Lime3	Tons/acre or to c	correct to pH	6.5				
Fertilizer type <u>10-7</u>	20-20 or equivalent	t 🖪					
Fertilizer amount		500 _{lbs}	/acre				
Mulch Straw		2 Tons/ac	re				
		Seed	<u>Mixtures</u>				
Temporary			Permanent				
Seed Type	lbs/acre		Seed Type	lbs/acre			
Tall Fescue	40		Tall Fescue	40			
Ladino Clover	5		Ladino Clover	5			
** Sediment Co		mith	At All Times **				
	····						
Title: D; d (x,5 = = = = = = = = = = = = = = = = = = =	Inspector Yes		Date: <u>(o~13</u> — <u>/</u> S _) No	Office of Oil and Gas JUN 3 0 2016			
				WV Department of Environmental คือใจใช้ค			



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API:	47- 043 -	1721		WELL NO:1			
FARM NAME:	S.W. Nur	ın No.1					
RESPONSIBLE PART	Y NAME:	H.G. Enc	ergy, LLC				
COUNTY:	Lincoln			DISTRICT: Duval - 2			
QUADRANGLE:	<u></u>	Garrett's Bend 7.5	-358				
SURFACE OWNER:		Orville Nunn					
ROYALTY OWNER:		H.G. Energy, LLC et al.					
UTM GPS NORTHIN	G:	4,235,039	(NAD 83)	<u>) </u>			
UTM GPS EASTING:		422,717	(NAD 83)	GPS ELEVATION: 322 m 1079\$			
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters. 2. Accuracy to Datum - 3.05 meters 3. Data Collection Method:							
Survey Gra		Post Processed Dir Real-Time Differe					
Mapping G		Post Processed Di Real-Time Differe		<u>X</u>			
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas. Diane C. White Designated Fig. 1							
Signature	mbor 24, 2015			Title JUN 3 0 2016			
Date	mber 24, 2015		_	Environmental Texterion			