

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

April 18, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8700969, 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.

James Martin

Chi

Operator's Well No: W-1

Farm Name: KAUFMAN, WILLIAM

API Well Number: 47-8700969

Permit Type: Plugging Date Issued: 04/18/2016

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 March 22	, 20 16
2)Operator's	
Well No. William	Kaufman No. W-1
3) API Well No.	47 - 087 - 0969

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

	OFFICE OF	OID AND GAS
	APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON
4)	Well Type: Oil X / Gas X / Liquid	
	(If "Gas, Production x or Und	derground storage) Deep/ Shallow
5)	Location: Elevation 929'	Watershed Clover Run
	District Smithfield	County Roane Quadrangle Spencer 7.5'
6)	Well Operator HG Energy, LLC	7)Designated Agent Diane White
	Address 5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified Name Joe Taylor Address 1478 Claylick Road Spencer, WV 25271	9) Plugging Contractor Name To Be Determined Upon Approval of Permit Address
LO)	Work Order: The work order for the manner ** See Attached Sh	

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

Office of Oil and Gas

Work order approved by inspector

Date 3APR 4 6016

WV Department of Environmental Protection 04/22/2016

WW-4B - Conti Rev. 2/01

1)	Date: M	arch 22	, 201	6		
2)	Operator's Well	Number	•			
	William Ka	ufman '	W-1			
3)	API Well No:	47	-	087	-	0969
•		Canan	•	Country	•	Domnit

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 Injecture Undergroun		_Waste Dispo) Deep		ıllow	x
5)	LOCATION:	Elevation: District:	929' Smithfield		_Watershed: _County:	Clover Run Roane		adrangle	Spencer	
6)	WELL OPERAT Address		gy, LLC pont Road		494497948	7) DESIGNATI	ED AGENTAddress	Diane W 5260 Du	/hite ipont Roa	d
		Parkersb	urg, WV 26101					Parkersb	ourg, WV	26101
8)	OIL & GAS INS Name	Joe Taylor	·			9) PLUGGING Name	CONTRACTO To Be Determ		Approval o	of Permit
	Address	1478 Claylick Ripley, WV 2				Address				

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

TD- 2,103'

Manners of plugging;

Plug #1 - 1925' - 1825'

Located above the highest perforation

Free-point, part and pull all possible 4 1/2" casing (approx 1600')

Plug # 2 - 1650' - 1550'

Located at 4 1/2" casing stub

Plug #3 - 975' - 875'

Located at elevation

Free point, part and pull all possible 10" casing

Plug #4 - 525' - 425'

Located at 10" casing shoe

Plug #5 - 100' - 0'

If 10" casing is present, rip for plug placement

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

Monument -

6" minimum diameter metal pipe 30" above surface

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
APR 0 4 2016

WV Departmental Protection

Monument to extend 30" above surface. 10' Well: Wm. Kaufman W-1 into well. 6" min metal pipe, sealed with cement. API i.D. 929' Elevation: 5 10" Not Cemented to Surface Casing Information 4 Size Depth Weight 10" 482 #/ft. Freepoint Cut and Pull Casing 41/2" 1934 10.5#/ft. Size Approx. Depth 4 1/2 1600' 4 Cement Plugs Bottom NO. Top 1 1925 1825 2 1550 1650 975 875 3 425 4 525 5 100 0 3 **Bottom Hole Cement Level Calculations** # Sacks Used Cement Depth 25 1781.54 **Hole Size** Casing Size Depth 6.75 4.5 1935 2 diameter delta bbls / ft. Conv. Factor 25.3125 0.02459 1029.4 cubic ft. per vertical ft. depth 0.138058122 4 25 Sacks Cement T.O.C. 1780' Sacks per vertical ft. depth 0.162908584 Highest Perforation 1973' Yield options 50/50 posmix 6% gel = 1.64 Neat w/ salt flakes = 1.19 RECEIVED 50/50 w/ 2% gel = 1.27 TD 2103' Office of Oil and Gas APR 0 4 2016 WV Department of Environment 22/2016

REPORT OF FRACTURE TREATMENT

		KEPOK	T OF FRACTURE TRI	EATMENT		
	New Well X O	ld Well			Elevation 9	29.5
	Farm: William	Kaufman	Woll Number: W-	1(8)	Pool: Clover	
,	District: Smit	hfield	County: Roane		State: W. Va.	
	Producing Forma	tion: Big In	jun	Depth:	From 2049' to 2072	í
	Date Completed:	Sept. 27, 19	63 Pays	: Oil	From 2060 to 2070	7
	Original Total	Depth: 2103'			From to	=
	Present Total D	epth:		Gas	From None to (1100 to	
	Production	Initial	Present	Aft	er Fracture	
	011	Show		40	Bb1./Day	
	Gas	-0-		No	Test	
	Rock Pressure	N/A	2.4	Est	. 500#	
	Logs Used: Gamm	Big Injun :	Date <u>Sept. 27</u> amma Density, Neu 2050' - 2070' 9 - 100% F _S Date <u>Oct. 7/63</u>	itron, Ca	liper	
	Perforations:	l - Triple Fra	c. Notch Cutter @	2064 1/	21	
	Treatment Data	Sand Ac	Plugging id Agent 6	Flu Gel Lo		
	Type Water	20-49 BDA	<u> </u>	98 J-	B4 Deterg. Free I	lo lo
	Amount 925 Bbl.	50,000# 300	gal. 2	50# 40	0# 30 gal. 40 gal	- 0
	Breakdown 1	Pressure: 1,00	00# Treating Pre	ssure: M	ex.3,000 Min. 2250#	
	Sand Concer	atration: 1/4	to 2# In	jection	Rate 23.5 Bb1/Min.	
			EQUIPMENT USED			
	Service Company _	Dowell Cos	st \$3,281.50 Hyd	raulic H	orsepower 1224	
	2 - Allisons 1 - Blender		2 - Sand Truck 1 - Acid Truck	s		
	Engineering	Dept. By:	Howard Strickle	er	Date: Oct. 2	1, 1963 04/22/20

FORM No. 989 1H 2/40 H'G. 1242

WOLF'S HEAD OIL REFINING COMPANY, INCORPORATED



NEW WELL REPORT

LEASE NO 8121	9		600	ACRES	WORKING DISTRIC	т Ѕре	ncer#	4	·
Vin.	Kaufman			FARM	WELL No. 8-1				w <u>37</u>
Smit	hfield		Disti Town	RICT OR NSHIP	Roane	RoaneCOUNTY			
LOCATION MADE.	July	29,		19_ 63	DRILLING COMMEN				
RIG COMMENCED_	Augus	t 29,		19 63	DRILLING COMPLE	7ED	Septemb	er 27,	19.63
RIG COMPLETED.	Augus	t 31,	•	19.63					
RIG CONTRACTOR	Geral	d D. Jo	008		DRILLING CONTRA	CTOR	Gerald	D. Jone	98
ELEVATION: FLOOR	R		GROUND	929.50	Work Order No.	4-3684-	C A	Fe# WH-	1-4.Va.
				FORMATIO	N RECORD				
KIND, *	ТОР	воттом	STEEL LINE MEAS.	TEST	KIND	тор	воттом	STEEL LINE MEAS.	TEST
3011	0	3			Slate	1753	1808		
fellow Sand	3	16			Black Slate	1808	1822		
Conductor		13	13		Slate	1822			
Red Rock	16	35			Sand	1843	1875		
Blue Slate	35	40			Little Lime	1875	1898		
Red Rock	40	115			Slate	1898			
Brown Slate	115	150			Big Lime	1923	2040	1934	
Sand	150	175			011	<u> </u>	1970		Show Only
ater, Fresh		160	160	1 Bailer/Hr.	Gas	1970	1981		17/10-#-1/4°F
led Rock	175	205			Water	-	1990	ļ	Hole Full
Slue Slate	205	220			Keener Sand	2040	2051	ļ	
Red Rock	220	250		ļ	Big Injun	2051	2072		10/00 5 /
Slate Seels	250	338	ļ	ļ	O11 & Gas	2059			40/10-N-1/4 TE
Red Rock	338	365			Blue Slate	2072	2103	~~~	
Slate Sand	365	380		ļ	42 CD Casing	 	2103	2103	
ater, Fresh	380 380	415 415	ļ	Show Only	Total Depth	 	2103	2103	
late	415	460		PILON OUTA	TOWT DEDMI	 	احدی	4105	
Sand	460	476			ļ	 			
Slate	476	532	477	<u> </u>		İ ——			
Red Rock	532	560	411			 			
lue Slate	560	580		 		 	 		
Sand	580	600				 	 		
Red Rock	600								
Slate	625	660					<u> </u>		
led Rock	660	715				l	 		
late	715	780			_				
led Rock	780	815							
late	815	835						•	·
Red Rock	835	881.							·
late & Shells	881	925							
bujkard Sand	925	1023	950						
ilue Slate	1.023	1113							
and	1113	1156							
late	1156	1170							
and, Broken	1170	1375							
Slate	1375	1407							
and	1407	1462		<u> </u>	ļ				
late	1462	1516							
Sand	1516	1560						·	
Black Slate Blate & Shells	1560 1592	1592							
*	lI	1655							
Salt Sand	1655	1733	···		•				
iater	ı 1	1695		Hole Full	l				0.4/0

NEW WELL REPORT - CONT'D.

	11		C 4 C 1	NC AND T	LIBIN	G RECORE	<u> </u>		
INITIAL TORPEDO RECORD	<u> </u>	<u></u>		IN WELL	CBIN	7:	PULLED	OUT	
Data of Chat	SIZE	TRAN	NSFER NO		linch	TRANSFE	R NO.	FEET	INCH
Date of Shot	100	Tall		482	90	 			-
	_			950		S.L.M.		950	
Name of Torpedo Co.	8-5/8H	S.L.				9.L.M		1934	90
No. of Quarts	6-5/811	S.L		1934		67 9 21 9 64	•	T.334	-
Length of Shell	430	Tall	y	2126	99	<u> </u>		<u> </u>	-
Diameter of Shell	2ª Tog.	Tel	l.y	2103	90				ļ
Length of Anchor									
Top of Shot						1	_	<u> </u>	
Bottom of Shot	-	-	,			1			
	_	 				1			-
Feet of Fluid in Hole When Shot					-			 	+-
Results:		 		_		-		╟	
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		<u> </u>				··-		 	↓
		<u> </u>				<u> </u>		<u> </u>	<u> </u>
			-						
				PACKER		_ 			
INITIAL PRODUCTION FIRST 24 HOURS		ND		SIZĘ		DEPTH SET	·	DATE SET	<u>'</u>
Open Flow 40/10ths Water in 3/4 Inch	Steel S	hos	1	lon od		477		-63	
	Float (hila	SP I	Piu OD		20831	9-2	18-63	
/10ths Merc. inInch Volume 2906 Cuft. Thru 600 Water Cu. Ft.	Guide S			A OD		21031	9-2	8-63	
Volume 12 700 Gus 0 milita coo voscos Cu. Ft.	THE SALLS	71800		\$15 GE			- 		
Rock Pressure Nates = No Tent hrs.	.			,,,,,	- -∤-	,			
Oil Show Only arru Water bbls., First 24 hrs.	<u></u>		!				<u> </u>	·	
									
ACIDIZATION OR FRACTURING RECORD					ASIN	G CEMEN	LED		
Dam West American			. 4	•			~~ **		
DATE WELL FRACTURED CETODOR 9, 1963		_	484	, SIZE	2103	. FT9∞	28-63	3	DAT!
NAME OF COMPANY DONAL									
(List below materials used in Acidizing or Fracturing, i.e., Sand, Crue	de Oil Casalir	-		SIZE		Fт			DAT
Water, Kerosene, Mothballs, Acid, etc., giving gallons, barrels and po	ounds).	,		_		· _ ·			_
Used: 920 Rbls. Water						FT			DATI
Used: 300 Gale Dowell X		_	USED	in ceat	NIIN	a thu of	CAS.	LAKE 8	
Veed: JOO Cals. Regular Mud Acid		<u>−</u> .	盘	Cala a	Peet	gnment			
Usent: 250/ J-98		_ ·							
Used: 400# J-84			5	Bags -	Bari	.0d			
Used: 30 Gals. Deterger		_	E	Baga -	Lime	a .			
Used: 40 Gals. Freflo	•	-							
Used: 50,000# Sand			25	Bage -	Cent		. •		•
		_	Ċ	enented	hy:	Well Ser	eoiv	. Inc.	ì
		_		<u> </u>	-0			-	
		_						÷	
The second secon	:-		USED	in cell	ING	10º CAS	ing fi	rom su	rpac
		_				TEMBLE 6			
			10	477 Ort	OC.F	PATERIA O	2.70	21	(presentation)
BREAKDOWN PRESSURE 1000#			7	Bage - 1	agco	Ge1			
2005 22002							7 9a-	nea	
AVERAGE PUMPING RATE/MINUTE 23.5 ED18.		_	•	nerreg (A g	Gerald i	9 9 00	re#	<u>:</u>
Pumping Time 39 Minutes		_		•					
3£ 686					<u>_</u>	· · · · · ·		•	
RESULT AFTER GAS 779000	CU. I					,) 		·	
ROCK PRESSURE AFTER TREATMENT 500				~	re. F	RECEIVE	ED .		
NOON I REBOOKE AFTER TREATMENT.					шсе	of Oil a	nd C	30	
REMARKS: Drilled with Cable Tools		•				,		AQ.	
REMARKS: UTLLIEG WITTE CHOICE 10015					- A	PR 0 4 20	ne		
Note: This well was legged by McCull					Mr. Surden	HOW THE	110		
Note: This well was logged by McCull	ough Tool	Com	pany e	n Jepte		278 170	<i>3</i> •		
			•	Envi	rana.	eparime	ent of		
Note: This well was drilled according	g to Rule	IL	under	· Sectadi	产型	Jeonana	Hect	(in	
Chapter 22, of the Code of the	Departme	nt o	? Mine	9, O11	and (as Divi	sion.		
established was no emp and on min	-3,			-y	•				
									
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						<u>U4</u>	-/22/2	2010	
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	APPRO	VED				÷			
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WW-4A Revised 6-07

1) Date:	March 22, 2016	
2) Operator	's Well Number	
William Kaufman I	No. W-1	
William Kaufman I	No. W-1	

3) API Well No.: 47 -

087

0969

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

Address	P. O. Box 201		Address	NA			
	Fawn Grove, PA 17321	/	Audress	-			
(b) Name	Douglas Haverty	/	(b) Coal ()wnar(g) r	vith Declaration		
Address	62 Millstone Run	,	Name	NA NA	VIIII Declaration		
Address	Spencer, WV 25276		Address				
(c) Name			Name	_			
Address			Address	-			
3) Inspector	Joe Taylor	1	(c) Coal L	essee wit	h Declaration		
Address	1478 Claylick Road	101	Name	NA			
	Ripley, WV 25271		Address	-			
Telephone	304-380-7469						
The reason you However, you	at (surveyor's map) sho ou received these document are not required to take an that under Chapter 22-6 of	wing the well locants is that you have removed at all.	rights regarding the appose, the undersigned we	olication whice	oposes to file or has file	ed this Notice	e and Application and
(2) The plate the reason yet However, you Take notice to accompanyin Protection, we the Application	ou received these documents are not required to take an	wing the well local ats is that you have a ny action at all. The West Virginia Co to plug and abandon a ne location described n mailed by register	ode, the undersigned we a well with the Chief of on the attached Appliced or certified mail or	olication whice ell operator profite of the Office of ation and der	oposes to file or has file Oil and Gas, West Virg icted on the attached Fo	ed this Notice ginia Departn	e and Application and nent of Environmental Copies of this Notice,
(2) The plate the reason yet However, you Take notice to accompanyin Protection, we the Application	ou received these document are not required to take an that under Chapter 22-6 of g documents for a permit to the well at the on, and the plat have been	wing the well local ants is that you have a ny action at all. The West Virginia Co to plug and abandon a ne location described an mailed by registere day of mailing or deli	rights regarding the approach, the undersigned we as well with the Chief of on the attached Appliced or certified mail or every to the Chief.	ell operator pr the Office of ation and dep delivered by	oposes to file or has file Oil and Gas, West Virg icted on the attached Fo hand to the person(s) n	ed this Notice ginia Departn	e and Application and nent of Environmental Copies of this Notice,
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(2) The plate of the reason yet of the reason ye	ou received these document are not required to take an that under Chapter 22-6 of g documents for a permit tith respect to the well at the on, and the plat have been stances) on or before the of the control of the co	wing the well local ants is that you have a my action at all. The West Virginia Co to plug and abandon a me location described an mailed by registered ay of mailing or deli Well Operato By: Its:	ode, the undersigned we a well with the Chief of on the attached Appliced or certified mail or every to the Chief. HG Energy, LLC Diane White Agent	ell operator price of ation and dependence by	oposes to file or has file Oil and Gas, West Virg icted on the attached Fo hand to the person(s) n	ed this Notice ginia Departn	e and Application and nent of Environmental Copies of this Notice,
(2) The plate the reason yet of the reason yet o	ou received these document are not required to take an that under Chapter 22-6 of g documents for a permit to the respect to the well at the on, and the plat have been astances) on or before the constances on or before the constances.	wing the well local attains is that you have any action at all. The West Virginia Coto plug and abandon are location described in mailed by registered day of mailing or deligible. Well Operato By:	ode, the undersigned we a well with the Chief of on the attached Appliced or certified mail or every to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Road	ell operator profite of ation and dependent by	oposes to file or has file Oil and Gas, West Virg icted on the attached Fo hand to the person(s) n	ed this Notice ginia Departn	e and Application and nent of Environmental Copies of this Notice,
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The reason yethowever, you Take notice to accompanyin Protection, we the Application certain circum Services Williamstow My Commission Subscribed and services The Province of	ou received these document are not required to take an that under Chapter 22-6 of g documents for a permit to the well at the control on, and the plat have been stances) on or before the control of the well at the well at the well at the control of the well at the control of the well at the control of the well at the well	wing the well local ants is that you have a my action at all. The West Virginia Co to plug and abandon a ne location described an mailed by registered day of mailing or deli Well Operato By: Its: Address Telephone	ode, the undersigned we a well with the Chief of on the attached Appliced or certified mail or every to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Road Parkersburg, WV 20	ell operator protection which the Office of ation and dependent delivered by	oposes to file or has file Oil and Gas, West Virg icted on the attached For hand to the person(s) n	ed this Notice ginia Departm orm WW-6. named above	e and Application and nent of Environmental Copies of this Notice, (or by publication in
The reason yethowever, you Take notice to accompanyin Protection, we the Applicatic certain circum Service Williamstow My Commission Subscribed and service The Province Technology (Commission) (Commis	ou received these document are not required to take an that under Chapter 22-6 of g documents for a permit to the well at the content on, and the plat have been stances) on or before the constances) on or before the constances. FICIAL SEAL TARY PUBLIC Dr. WEST VIRGINIA ANE WHITE Larning Leaf Lane in, West Virginia 26187 for Expires July 11, 2022	wing the well local ants is that you have a my action at all. The West Virginia Co to plug and abandon a ne location described an mailed by registered day of mailing or deli Well Operato By: Its: Address Telephone	ode, the undersigned we a well with the Chief of on the attached Appliced or certified mail or every to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Road Parkersburg, WV 20 304-420-1119 day ofMarch, 201	ell operator protection which the Office of ation and dependent delivered by	oposes to file or has file Oil and Gas, West Virg icted on the attached For hand to the person(s) n	ed this Notice ginia Departm orm WW-6. named above	e and Application and nent of Environmental Copies of this 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 of 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 of 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 of Information of 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 of In

WW-9 Rev. 5/08

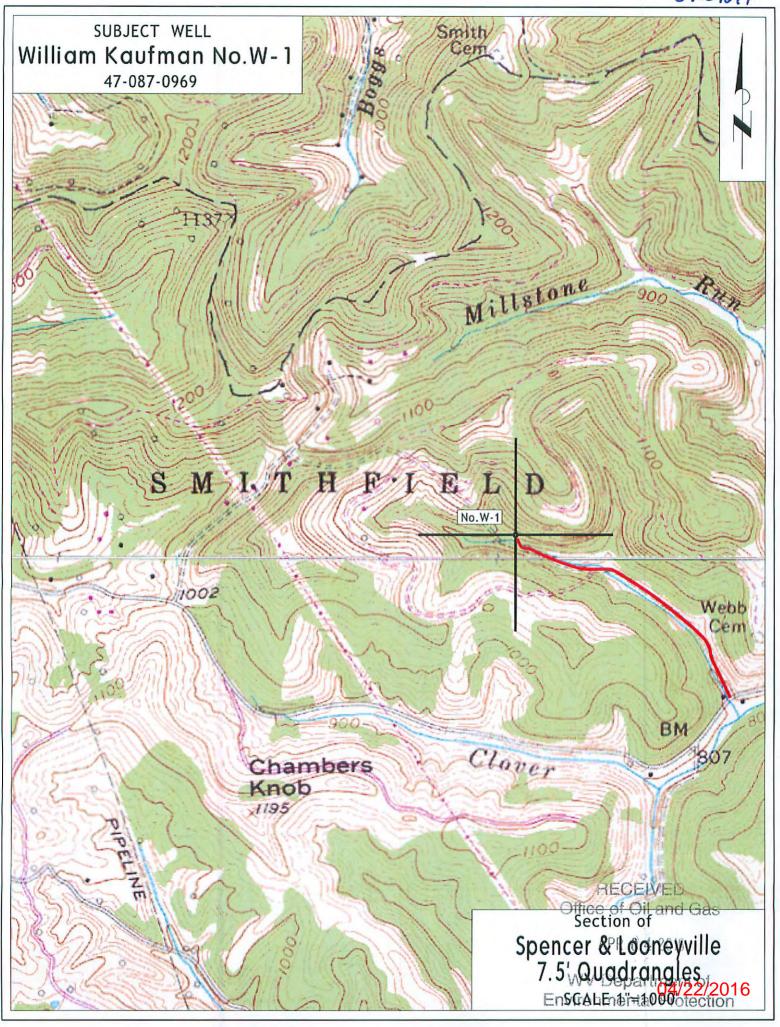
	Page _	of	
API Number 47	7 _ 087	_ 0969	
Operator's Well	No. William	Kaufman No. W-1	

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

	_{ame} HG Energy, I	LC		OP Code	97948	
Watershed _.	Clover Run			Spencer 7.5'		
Elevation	929'	Roane		District_Smit	hfield	
Description	of anticipated Pit Wa	ste: Fluids encountere	d while plu	gging subject we	ell	
Will a synt	hetic liner be used in t	ne pit? Yes	minima	st 20 ml	threkness o	must be of
roposed D	Disposal Method For T	reated Pit Wastes:				
	Land A					
	Under	ground Injection (UIC Permit	Number			
		(at API Number		1)
		e Dispposal (Supply form WW (Explain	-9 for disposal	location)		
Proposed V	Vork For Which Pit W	ill Be Used:				
	Drillin		Swabb			
	Worko	ver _	× Pluggii	ıg		
	Other	(Explain				
aw or regu			any term or co	ndition of the general	permit and/or	other applical
I I application bbtaining to be a little for the company (Company	certify under penalty form and all attache the information, I believe submitting false info Official Signature Official (Typed Name	rement action. of law that I have personally ments thereto and that, based eve that the information is true mation, including the possibilities. Diane White	examined and on my inquir ie, accurate, ar	am familiar with the of those individual d complete. I am a	information su s immediately	other applica ibmitted on t responsible
I I application bbtaining to be a little for the company (Company	certify under penalty form and all attache he information, I belion submitting false info Official Signature	rement action. of law that I have personally ments thereto and that, based eve that the information is true mation, including the possibilities. Diane White	examined and on my inquir ie, accurate, ar	am familiar with the of those individual d complete. I am a	information su s immediately	ibmitted on the responsible
application bbtaining to penalties for Company (Company (certify under penalty form and all attache the information, I believe submitting false info Official Signature Official (Typed Name	rement action. of law that I have personally ments thereto and that, based eve that the information is trumation, including the possibility piane white Diane White ent	examined and on my inquir ie, accurate, ar	am familiar with the of those individual d complete. I am a	information sus immediately ware that there	other applical
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£	EGEND
Property Boundary	Diversion (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Road = = = = = = = = = = = = = = = = = = =	Spring —
Existing Fence — X — X — X —	Wet Spot
Planned Fence///	Drain Pipe with size in inches @
Stream	Waterway \longleftrightarrow
Open Ditch	Cross Drain ////////////////////////////////////
Rock 63565	Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Wasto
Drīll site 💮	
Proposed Revegetation Treatment: Acres Disturbed 0.7 ac	Prevegetation pH
2	
Fertilizer (10-20-20 or equivalent)	cre (500 lbs minimum)
Mulch Straw 2 Tons/acr	
Mulcin1 ons/act	e
Seed I	Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
Tall Fescue 40	Tall Fescue 40
	Ladino Clover 5
Ladino Clover 5	Ladino Clover 5
** Sediment Control Will Be In Place At	All Times **
Counter Control VIII Bo III 1 Idea / K.	
Attach:	
Drawing(s) of road, location,pit and proposed area for land applic	eation.
Photocopied section of involved 7.5' topographic sheet.	
Thotocopied section of mystred vis topographic sheets	
Plan Approved by:	>
Plan Approved by:	>
Plan Approved by: Comments:	>
	>
	S COLC RECEIVED
	Date: 3-23-2016 RECEIVED Office of Oil and Gas
Title: OCG Laspect	Date: 3-23-20 Office of Oil and Gas
Comments:	Date: 3-23-2016 RECEIVED Office of Oil and Gas APR 0 4 2016



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47	- 087 - 0969		WELL NO:	W-1	
FARM NAME:	Wm. Kaufman No.W-1			_	
RESPONSIBLE PARTY N	AME: H.G. Er	ergy, LLC			
COUNTY:	Roane		DISTRICT:	Smithfield	
QUADRANGLE:	Spencer 7.5'				
SURFACE OWNER:	Verne Marks				
ROYALTY OWNER:	H.G. Energy, LLC	Cet al.			
UTM GPS NORTHING:	4,289,153	(NAD 83)			
UTM GPS EASTING:	477,078	(NAD 83) GI	S ELEVATION:	287 m. (9291)	
height abo 2. Accuracy t	AD 1983, Zone:17 North, C ve mean sea level (MSL) - n o Datum - 3.05 meters ction Method:		: meters, Altitude	:	
Survey Grade C	GPS Post Processed D		_		
Mapping Grade	Real-Time Difference GPS X Post Processed D Real-Time Difference	ifferential 2	<u> </u>		
	certify this data is correct to formation required by law a f Oil and Gas.		is issued and	RECEIVED	
Diane White Diane C. White			Office of Oil and Gas Designated Agent		
Signature		Ti		APR 0 4 2016	
March 18, 2016 Date		_	WV Department of Environmental Protection 04/22/2016		