

### 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

August 07, 2015

## WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-9501605, 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

Chief

Operator's Well No: S. McMILLEN J-4

Farm Name: GLOVER, KENNETH

API Well Number: 47-9501605

Permit Type: Plugging
Date Issued: 08/07/2015

### 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 under the terms of that agreement.

work can commence.

Work order approved by inspector Michael May

4709501605P

1) Date		,	20	
2) Operator	's		-	
Well No.	Samuel	McMillan	J-4	
3) API Well	No.	47-095	- 1605	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

	OFFICE OF	OIL AND GAS
	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil X / Gas/ Liquid (If "Gas, Production or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_X_
5)	Location: Elevation 830' District McElroy	Watershed Indian Creek County Tyler Quadrangle Centerpoint 7.5'
6)	Well Operator HG Energy, LLC  Address 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 Michael Goff  Address P. O. Box 134  Pullman, WV 26421	9) Plugging Contractor  Name_To Be Determined Upon Approval of Permit  Address
10)	Work Order: The work order for the man:  "See Attached Si	ner of plugging this well is as follows:
		RECEIVED Office of Oil and Gas
		JUL 2 7 2015
		WV Department of Environmental Protection
Not	ification must be given to the district of	oil and gas inspector 24 hours before permitted

Date 7/14/15 08/07/2015

WW-4B+A1:AB54 Rev. 2/01 1) Date: June 23, 2015
2) Operator's Well Number
Samuel McMillan J-4
3) API Well No: 47 - 095 - 16505 1655
State County Permit

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

	APPLICATION FOR A PERMIT	TO PLUG A	ND ABANDON	1			
4) WELL TYPE:	Oil X Gas (If "Gas", Production	Liquid Injecti Underground		Waste Dispo ) Deep	sal Shallo	wx	<u> </u>
5) LOCATION:	Elevation: 830' District: McElroy	Watershed:County:	Indian Creek Tyler	Qu	adrangle <u>C</u>	enterpoi	nt 7.5'
6) WELL OPERA Address	TOR: HG Energy, LLC  5260 Dupont Road  Parkersburg, WV 26101	4.94E+08	7) DESIGNATE	Address	Diane Whit 5260 Dupo Parkersburg	nt Road	5101
8) OIL & GAS IN Name Address	SPECTOR TO BE NOTIFIED  Michael Goff PO Box 134 Pullman, WV 26421		9) PLUGGING Name Address	CONTRACTO	OR nined Upon App	proval of	Permit
10) WORK ORDER TD- 2,923'	R: The work order for the manner of p	plugging this we	ell is as follows:				
Plug #2 - 1700' - 1 Located at 4 1/2" Plug #3 -900' - 600 Located at elevati Plug #4 - 300' - 0' Located at 8 5/8"	700' Ighest preforation Ind pull 4 1/2" casing at approx. 165 600' Icasing stub O' Ion and through the Pittsburgh Coa	al o Surface		MA 7/1	C5 4/15		
Recover all possible c	easing. If casing can not be recovered, perf	forate for plug place	cement.				
Monument: 6" minimum diameter 30" above surface	between plug 5				REC Office of		_
Located at elevati Plug #4 - 300' - 0' Located at 8 5/8" Recover all possible of Monument: 6" minimum diameter 30" above surface	casing shoe, below Fresh Water to casing. If casing can not be recovered, performeral pipe	Surface	cement.		Office of	Oit an	σЭ

WV Department of Environmental Protection

Well: S. McMillen J-4 Monument to extend 30" above surface, 10' into well. 6" min metal pipe, sealed with Elevation: 830' cement. API i.D. Casing Information  $\leftarrow$ cement to surface Size Depth Weight 8 5/8" 220 20#/ft. Freepoint Cut and Pull Casing 4 1/2" 2900 10.5#/ft. Size Approx. Depth 4 1/2 1650 Pittsburgh Coal 651' Cement Plugs Bottom NO. Top 1 2800 2700 2 1700 1600 3 900 600 3 4 300  $\leftarrow$ 7 7/8" Hole Size Bottom Hole Cement Level Calculations 1/14/15 # Sacks Used Cement Depth 300 1783.925 Hole Size Casing Size Depth 2 7.875 4.5 2900 300 Sks Cement T.O.C. 1785'  $\leftarrow$ Conv. Factor bbls / ft. diameter delta RECEIVED 41.765625 1029.4 0.040573 Office of Oil and Gas cubic ft. per vertical ft. depth JUL 27 05 0.227795902 WV Department of Sacks per vertical ft. depth Environmental Protection 0.268799164 Highest Perforation 2824' Yield options 50/50 posmix 6% gel = 1.64 1 Neat w/ salt flakes = 1.19 50/50 w/ 2% gel = 1.27 TD 2923'

22-Mar-94 API # 47- 95-01605 s

# State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

		_					
Farm name:	GLOVER,	KENNETH	ETAL.	Operator	Well No.: S	5,McMILLE	N J-4
LOCATION:	Elevation	n: 830.0	0 Quad	lrangle: C	ENTER POINT	•	
	Latitude	: 3050	ROY Feet Sou Feet Wes	ith of 39	ounty: TYLEI Deg. 27Min Deg. 40 Min	. 30 Sec.	
Company: PEN	NZOIL PRO	DUCTS CO	MPANY				
P. (	O. BOX 55	19		<b>.</b>	Used in     Drilling	ĺ	Fill Up
Agent: JAM	ES A. CRE	ews		Size			<u></u>
Inspector: Permit Issue Well work Co			2/94	8-5/8	220'	     220'	To surface 50 sks.
Verbal Plug	ompretea:	09/12	2/94		 	   	
Permission Rotary X Total Depth	(reet)	2023		4-1/2	2899.80	2899.80	300 sks.
Fresh water	depths (	(ft) <u>N/</u>	<u>A</u>				
Salt water					<u> </u>		   
Is coal being Coal Depths	ng mined (ft):	in area N/A	(X\N) <u>\$</u> N	i   	[ 	[   	   
OPEN FLOW D	ATA	* Wat	er Injectio	n Well			
Produc Gas: I F	ing forma nitial oper inal oper	ation oen flow n flow	Gordon * MCI * MCI	7/d 0il: I 7/d F	Pay zone on the state of the st	depth (ft flow * low *	) 2808-2852 Bbl/d Bbl/d
7	TWG OT OF	Sen TTOM	Derween .	rnitciat an	d final tes e pressure)	LS	Hours Hours
Second Gas: I	producionitial op	ng format pen flow	tionMC	/d Oil: I	Pay zone on itial open final open final open final together.	depth (ft flow	)Bb1/d
F	inal oper	flow	MCI	F/d F	inal open f	low	Bbl/d
	TWG OT OF	SEIL TIOM	Dermeen .	rmrcrar am	d final tes e pressure)	LS	Hours Hours
INTERVALS,	FRACTURII	NG OR S'	TIMULATINO DETAILED	GPOLOGIC	G: 1). DET. AL CHANGE, AL RECORD	ETC. 2).	THE WELL
		Fo	By:	IL PRODUCT	s company QQ		

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Environmental Pro

Drilling Prognosis
SAMUEL MCMILLEN J-4
Page 2

DRILLING TIME

One foot drilling time from surface to total depth.

AND SAMPLES:

Ten foot samples from 2000' to total depth.

LOGGING:

To be determined at time of drilling.

PIPE TALLY:

Drill string will be strapped out on last trip at or before coring point or total depth is reached. If a correction of more than five feet (5') is necessary, then drill string is to be strapped going

back in hole.

FORMATION TOPS:

 Pittsburgh Coal
 651' K.B.

 Big Lime
 2023' K.B.

 Big Injun
 2105' K.B.

 Pocono Shale
 2247' K.B.

 Gordon
 2835' K.B.

 Total Depth
 2936' K.B.

CALL DRILLING SUPT. AFTER SURFACE CASING IS SET

SUPERVISION:

A morning report will be called into the Parkersburg office by

8:00 a.m. each morning.

Rick Green	Area Supt.	782-2216	782-4248
Dale Workman	Foreman	889-3334	889-2278
Phil Ondrusek	Operations Supt.	422-6565	464-5373
Paul King, Jr.	Petr. Eng. Advisor	422-6565	485-4654
Jack Sutherland	Drilling Supt.	422-6565	(614) 989-5138
Roger Heldman	Sr. Petr. Eng.	422-6565	(614) 678-8210
Bill Greenlees	Sr. Petr. Eng.	422-6565	(614) 749-3542
Greg Morrison	Geologist	422-6565	(614) 373-0339
Bill Toomey	Geologist	422-6565	(614) 423-7054

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Environmental Proceduors

#### TREATMENT

Perforated with 24 holes 2824'-2836'. Treated with 300 gallons 15% HCL acid, 275 barrels gelled water and 7000# of 20/40 sand.

#### WELL LOG

Sand & Shale	0'-1098'
Sand	1098'-1138'
Sand & Shale	1138'-1720'
Sand	1720'-1740'
Shale	1740'-1931'
Sand	1931'-1944'
Shale	1944'-1960'
Sand & Shale	1960'-2058'
Sand	2058'-2086'
Shale	2086'-2097'
Big Injun	2097'-2216'
Shale	2216'-2575'
Sand	2575'-2588'
Shale	2588'-2599'
Sand	2599'-2604'
Shale	2604'-2792'
Stray	27921-28081
Gordon	2808'-2852'
T.D.	2923'

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Wit Department in Environmental Propertion

WW-4A Revised 6-07 03/3079 D 9501605F

1) Date: June 23, 2015
2) Operator's Well Number
Samuel McMillan J-4

3) API Well No.: 47 -

095 - 1605

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

) Surface (a) Nam		r(s) to be served: Gordon Swartz		0) (a	) Coal Operato Name	NA		
Address		10240 Indian Creek R	oad	1	Address	***************************************		
Address		Jacksonburg, WV 263				х-		
(b) Nam	/ <u>~</u>	dondonbarg, vvv 200	W 16		(b) Coal O	wner(s) w	th Declaration	
Address					Name	NA		
Address	· ·				Address			
	3				_	-		
(c) Nam	_				Name	NA		
Address	7.7				Address	#===		
Address	).					-		
40 E27 100					- (a) Coal I	occoo with	Declaration	
3) Inspector	-	Michael Goff			- (c) Coar L Name	4.1.4		
Address		P. O. Box 134			- Address	_		
		Pullman, WV 26421			Address			
Telepho	ne	304-549-9823			-			
(2) The	well its The pla	and the plugging we t (surveyor's map) sl u received these docun	ork order; and nowing the w nents is that yo	d ell location ou have righ	n on Form WW-6.		ne parties involved in the work and describe are summarized in the instructions on the reve	
(2) The How Take	well its The pla reason you vever, you e notice the impanying ection, we Application	and the plugging we t (surveyor's map) slow received these documents are not required to take that under Chapter 22-6 g documents for a perm	ork order; and nowing the we ments is that yo any action at a of the West Vi it to plug and a the location d een mailed by	d ell location to have righ all, rginia Code thandon a w lescribed on registered of	the on Form WW-6.  Its regarding the application, the undersigned well with the Chief of the attached Application certified mail or	plication which		erses s cation fronme
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Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

08/07/2015

	U.S. Postal Service ** CERTIFIED MAIL® RECEIPT					
п.	Domestic Mail O		EIPT			
9620	For delivery information, visit our website at www.usps.com*.					
	OFF	ICIAL	USE			
975	Postage	\$ 1.64	- 19			
	Certified Fee	3.45	505			
0001	Return Receipt Fee (Endorsement Required)	2.70	Postmark Here			
	Restricted Delivery Fee (Endorsement Required)	1	S SW2 Am			
3490	Total Postage & Fees	\$ 7.89	5 M J-4			
	Sent To	rondon Sw	artz	/		
7014	or PO Box No.		an Creek Rd	/		
	City, State, ZIP+4	Tackson bur	g WV 26377			
	PS Form 3800, July 201	4	See Reverse for Instructions			

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WV Department of Environmental Protection WW-9 Rev. 5/08

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API Number 47 -	095	_ 1605	
Operator's Well N	O. Samuel	VicMillan J-4	

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

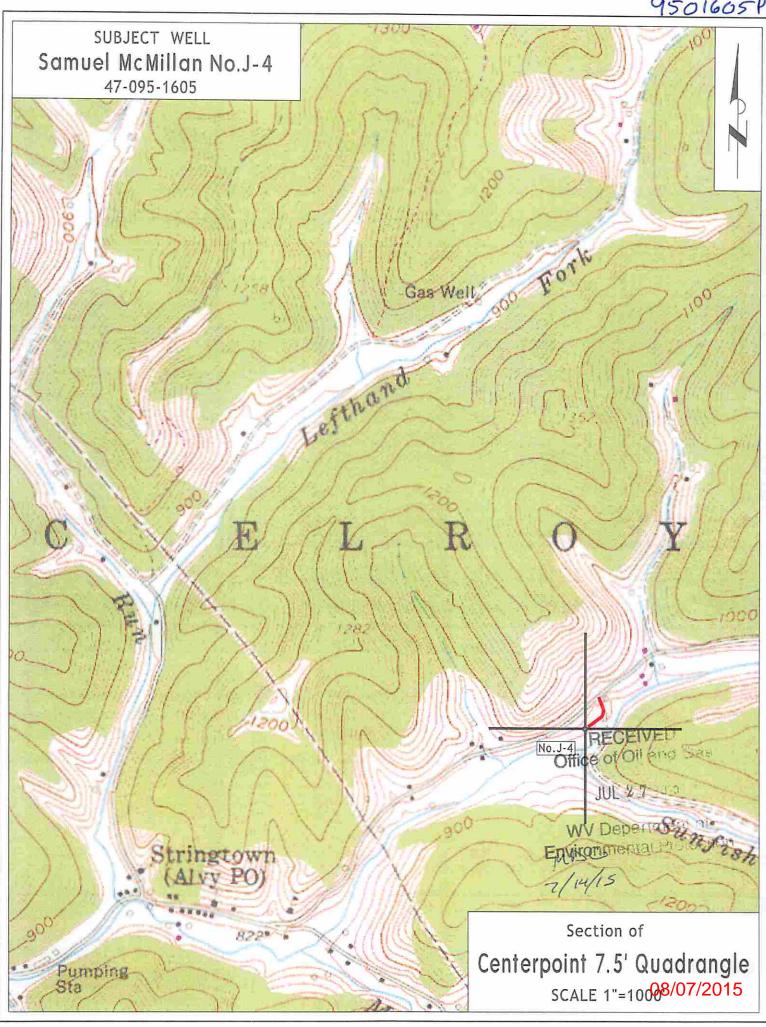
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

GENERAL PERMIT FOR OIL A	ND GAS PIT WASTE DISCHARGE
Operator Name_HG Energy, LLC	OP Code 494497948
•	Quadrangle Centerpoint 7.5'
Elevation 830' County Tyler	District McElroy
Description of anticipated Pit Waste: Fluids encounter	red while plugging subject well
Will a synthetic liner be used in the pit? Yes 20 MIC.	MAC 115
Proposed Disposal Method For Treated Pit Wastes:  X Land Application Underground Injection ( UIC Permit Reuse (at API Number_ Off Site Dispposal (Supply form WV) Other (Explain_	Number
Proposed Work For Which Pit Will Be Used:  Drilling  Workover  Other (Explain	X Plugging
on August 1, 2005, by the Office of Oil and Gas of the West Viprovisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally the control of t	JUL 2 7 2015
	Environmental Protection
Subscribed and sworn before me this 23 day of	June15
My commission expires Oct \$2016	Public OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA S. DIANNE DULANEY 5260 Dupont Road Parkersburg, West Virginia 26101 My-Commission Expires Oct. 4, 2016

Operator's Well No. Samuel McMillan J-4

	LEGEND	
Property Boundary	Diversion William	111111111111111111111111111111111111111
Road = = = = = = = = = = = = = = = = = = =	Spring —	
Existing Fence — X — X — X —	Wet Spot	
Planned Fence / / /	Drain Pipe with size in inches	
Stream	Waterway C	→ <b>←</b> → <b>←</b> →
Open Ditch	> Cross Drain	
Rock FEEE	Artificial Filter Strip	X X X X X X X X X X X X X X X X X X X
North N	Pit: cut walls	Me
Buildings	Pit: compacted fill walls	TTTTT STORY
Water wells (W)	Area for Land Application of Pit W	
Drill site	المرابع المراب	
D. Treetment: Agree Disturbed	0.4 Prevegetation pH	
Proposed Revegetation Treatment: Acres Disturbed		
Lime3Tons/acre or to corre	ect to pH	
Fertilizer (10-20-20 or equivalent)	Ulbs/acre (500 lbs minimum)	
Malak Straw 2	Tons/acre	
Mulch		
	Seed Mixtures	
Area I	Area II	lbs/acre
Seed Type lbs/acre	Seed Type	40
Tall Fescue 40	Tall Fescue	
Ladino Clover 5	Ladino Clover	5
**Sediment control should be in pla	ace at all times**	
Attach: Drawing(s) of road, location,pit and proposed area for	r land application.	
		RECEIVED
Photocopied section of involved 7.5' topographic shed	51.	Office of Oil and Gas
	J	JUL 2 7 2015
Plan Approved by: Nichael Sof Comments: Preseed & Mulch		WV Department of
Comments: Presend & Mulch a	disturbed aceas.	Environmental Protection
0100 5-2004	Date: -1/14/15	
Title: 0:14 Gas Inspect	<u> </u>	
Field Reviewed? () Yes	() No	

9501605P



MAG 7/14/15

## West Virginia Department of Environmental Protection Office of Oil & Gas

## WELL LOCATION FORM: GPS

API: 47-	095 - 1605	WELL NO: J-4
FARM NAME:	Samuel McMillan No. J-4	=
RESPONSIBLE PARTY N	IAME: H.G. Energy, LLC	
COUNTY:	Tyler	DISTRICT: McElroy
QUADRANGLE:	Centerpoint 7.5'	
SURFACE OWNER:	Gordon Swartz	
ROYALTY OWNER:	American Energy Partners, LL	C et al.
UTM GPS NORTHING:	4,366,787 (NAD 83)	
UTM GPS EASTING:	527,368 (NAD 83)	GPS ELEVATION: 253 m. (\$30')
preparing a new well locate Oil & Gas will not accept to  1. Datum: NA height abov 2. Accuracy to 3. Data Collect	ned above has chosen to submit GPS coordinate for a plugging permit on the above GPS coordinates that do not meet the follows AD 1983, Zone:17 North, Coordinate Universe mean sea level (MSL) - meters.  Do Datum - 3.05 meters ection Method:	ve well. The Office of lowing requirements:
	PS Post Processed Differential Real-Time Differential GPS X Post Processed Differential	X Office of Oil and Gas
	Real-Time Differential	Office of Oil and Gas  JUL 2 7 28:5
	certify this data is correct to the best of m formation required by law and the regular foil and Gas.	ny knowledge and
Diane White	Diane C. White	Designated Agent Title
Signature		THE
June 3,	2015	
Date		

# 4709501605 6



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

\$100°€

June 23, 2015

Jeff McLaughlin WVDEP Division of Oil & Gas 601 57<sup>th</sup> Street Charleston, West Virginia 25304

RE:

Samuel McMillan No. J-4 (47-095-01605)

McElroy District, Tyler County

West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-4(A), WW-4(B), WW-9, and WW-7, topo map, well record, copy of certified mailing receipt and a check in the amount of \$100.00 to cover the permit fee to plug and abandon the above-captioned well.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gas

JUL 2 7 2015

WV Department of Environmental Protection

cc:

Gordon Swartz – Certified Michael Goff - Inspector Now

Operator: HG ENERGY, LLC

API: 9501605

WELL No: S. McMILLEN J-4

Reviewed by: 9 m Date: 8/7/15

D5 Day End of Comment: 08/03/15

### CHECKLIST FOR FILING A PERMIT

Plugging	ChH	307
666		

V	WW-4B	
V	Inspector signature on WW-4B	
V	Completion / Well Records of Previous Work	
V	WW-4A (Notarized)	
V	Certified Mail Receipts, Waivers, or Affidavits of Personal Service	
	Surface Owner Waiver	
	Coal Owner / Lessee /Operator Waiver	
0	WW-9 (Page 1) (Notarized)	
V	Inspector Signature on WW-9 (Optional)	
V	Topographic Map of location of well	
V	WW-7	
	OR	
	Mylar Plat (Surface owner on plat matches WW-4A)	
1	Bond	£8.
J	Company is Registered with the SOS	
1	Worker's Compensation / Unemployment Insurance account is OK	
1	\$100,00 check (\$0.00 if no pit)	