

#### west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Tuesday, July 6, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

VIKING INTERNATIONAL RESOURCES CO., INC. 1300 FORT PIERPONT DR., SUITE 201 MORGANTOWN, WV 26508

Re: Permit approval for ELLIOTT 3 47-085-02403-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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.

Chief

James A. Martin

Operator's Well Number: ELLIOTT 3

Farm Name: MULLENNAX, J. L.

U.S. WELL NUMBER: 47-085-02403-00-00

Vertical Plugging Date Issued: 7/6/2021

### **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.

1) Date 470,8502403 2) Operator's Well No. J.L. Mullenax #3 3) API Well No. 47-085 -02403

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

EX	Location: Elevation 867	Watershed Gillespie Run
2)	District Grant	County Ritchie Quadrangle Cairo
		Prittany Woody
6)	Well Operator Virco	7) Designated Agent Brittany Woody te 201 Address 1300 Fort Pierpont Dr., Suite
	Address 1300 Fort Pierpont Dr., Sui Morgantown, WV 26508	
B)	Oil and Gas Inspector to be notifi	ed 9)Plugging Contractor Name NA
	Name Derek Haught Address PO Box 85	Address
	Smithville, WV 26178	
	See Attachment	e manner of plugging this Well is as follows:
	See Attachment  RECEIVED Office of Oil and Gas	e manner of plugging this Well is as follows:
	See Attachment  RECEIVED Office of Oil and Gas  JUL 0 1 2021	e manner of plugging this well is as follows:
	See Attachment  RECEIVED Office of Oil and Gas	e manner of plugging this well is as follows:
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	See Attachment  RECEIVED Office of Oil and Gas  JUL 0 1 2021	e manner of plugging this well is as follows:
Jot	RECEIVED Office of Oil and Gas  JUL 0 1 2021  WV Department of Environmental Protection	ict pil and gas inspector 24 hours before permi

Well Name:	J.L. Müllenax #3	Casing	Depth	OH	Comment	Shot interval
API#:	47-085-02403	13	16'			1628'- 1638'
County/St.	Ritchie,WV	10"	210'	12"	Pulled	
Elev	867 ft.	8	930'	93/4"	Pulled	
TD	1673 ft. / 1910 ft.	6	1491	8"	Left in well	
Plug back TD	1672 ft.	5 3/16"	60'	6"	Liner set thru shot interval	

Comments

Hole diameter sizes are assumptions. No record of hole sizes in well file

Access road and location to be constructed per WVDEP Regs and pre-seeded

All tubulars pulled from the well need to be NORM tested. Contractor gets all salvage pulled from the well

All fluids circulated from the wellbore are to be disposed of properly and documentation provided

Contractor will follow all SWN HSER requirements

Original TD - 1673 ft., Wellbore was deepened in 1951 to 1910 ft. No additional production was found and well records show that the wellbore was plugged back to 1672 ft.

#### Procedures

- 1) MIRU all plugging equipment, install all sediment and erosion controls and secondary containment
- Dig out around wellhead and set 4-5 ft. of 20" conductor. Hand cement outside of conductor with bag cement (This is to control and capsure inadvertant returns from the backside of the 6" casing).
- 3) Check pressures and bleed off if present. RU and pull rods and tubing out of the well if present. Tally tubing if pulled and then NORM test
- 4) Check well TD with cable tools. Note: If TD is significantly different from the well record TD notify WVDEP Inspector
- 5) TIH with workstring to TD. Pump tubing capacity then 30 bbls, of 6% Gel, spot-cement plug from TD 1400 ft, (32 sacks cement)
- 6) TOOH with workstring to above TOC @ 1400 ft. WOC
- 7) Check TOC @ 1400 ft., rest plug if needed, if not then TOOH to 900 ft.
- 8) Pump 25 bbls, of 6% Gel ahead and spot cement plug from 900 ft. 800 ft. (18 sacks cecment ). TOOH with workstring
- 10) RU and find free point on 6" casing (Estimate F.P. @ 500 ft. 600 ft.). CUT/RIP 6" casing@ F.P. (Est. 550 ft.) and pull several joints
- 11) TIH with workstring to set cement plug across 6" casing cut to 600 ft. Pump 30 bbls of 6% Gel ahead and spot cement plug from 600 ft. ( 44 sacks -rement)
- 12) TOOH with workstring, pull remaining 6" casing, NORM test 6" casing
- 13) Check TOC at 500 ft., reset cement plug if needed, if not then TIH w/ workstring to 300 ft. Pump 15 bbls. of 6% Gel then spot cement plug if needed, if not then TIH w/ workstring to 300 ft. Pump 15 bbls. of 6% Gel then spot cement plug if needed, if not then TIH w/ workstring to 300 ft.
- 13) TOOH with workstring to 100 ft. Spot cement plug from 100 ft. Surface. ( 67 sacks -cement).
- 14) TOOH with workstring, top off wellbare with cement if needed
- 15) Erect monument per WVDEP Regs.
- 16) RDMO equipment, dispose of circulated fluids properly
- 17) Reclaim location and access road to WVDEP Regs.





CASING DEPTH O.H CEMENTS PAME: It Mulenux #3 13 16' BOOTS & COOTS PT 47-085-02403 10" Pullant 210 9 4 Pullad Coff in woll 8" Elev. - 8674 930 1491 T.D.: 16734/1910'D.D. P.8 +0 1672 A. 6 Sal thrustable below 51/2-60 Propodure is Clock premuves and black off it presents 2) Clack Province and place off of project.
2) Clack T.D. of rubble fields It P.B. T.D. so significantly different from made records we life with English of the same of the condition of the property of the project of CALL SON 660 gor- 700 gor- 700 gor-5) Freet wi werk story. Ru to had free point on 6 tening 6) Ru to find tree point on 6" county 16st F.P. 7 500-600H) Cat/RIP 6" cos DF.P. (Est -550 H) as pull sward points 7) 15H of workstring to 600H Sit count play across range out from 600' 500 (44 5x2 fcm) Pary 30hb/s (27 pl about (300') 6% Gel 8) Took of workstring and gull revening 6 ess out of wellbore.
9) Church TOC and rever it wooded. It was TIH of workstring to 300'. Tang to blue 6'by get the spot comment plug from 300'-200' (4485-Cut) CAST PING 1406-TD 32 535 6'05, 2 1491' 5 1/16" hour 50 + then short hate 1610-1670" P.B. digit - 1672' 10) Took of workstony. Spot comet plo from 100'- surface (67 5x5-cont) Took of work strong, top off wellhow D.D. 10 -1910' P.B. +0/672' 12) Erent MONNAMENT por WIDEP rogs. .. office: 281.931.8884 main: 1.800.BLOWOUT 7908 N. Sam Houston Pkwy., 5th Floor Houston, TX 77064 fax: 281.931 8302 web: www.boots-coots.com

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RECEIVED
Office of Oil and Gas

WV Department of Environmental Protection AMERICAN OIL DEVELOPMENT CO.

	WI	ELI	R	ECC	DR.	D.	
N. U. & J. L	. Mullen	nax	F	erm		97	Acres.
Grant	Distr	ict.	Rite	hie	Count	y. W. V	n
Well No. 3							
Rig Completed April  Drilling Commenced April  Drilling Completed April	1 1 1 5	19 19	-		ershot		nnis Contractor.
FORMATIONS	Top	Bottom	Thickness	Oil -	Gas	Water	QUALITY
Selt Sand	1531	1665	134	1635	1632	1638	
Break in Salt Sand	1615	1617	2				
Lime	1665	Dri	led 81	in Lim	e		
Drilled deeper in .	Aug. 196	1			1	1	1
Lime	1665	1725			ĺ	1	
Keener	1725	1755			i		
Slate	1755	1757			9	1	
Injun Slate Squaw Black slate Total depth	1757 1862 1872 1896	1862 1872 1896 1910					
Plugged back t	o 1672 a		to pum	ing age	ain fr	on the M	axon sund
Total Depth 1673	feet, at		per foo	1, 5		Less use of	Gas
days, at	рс	Anna - Anna	o incre	le Total Communication	011 0	r gas by	drilling deeper
Charged to Pr	nt in I	Pulled Out	Left in Well	Transferre		Left at Well, Not in Use	REMARKS

ours 2 Bbls. John Hays

REMARKS.

Shot April 23, 1915 by Marietta Torpedo Company. Shot from 1625 to 1638 with 40 quarts.

Office of Oil and Gas

JUL 0 1 2021

WV Department of Environmental Protection

WW-4A Revised 6-07

1) Date:		1	
2) Operator's Well Number			
J.L. Mullenax \$3	_		
3) API Well No.: 47 -	085	02403	

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

(-) NT	wner(s) to be serve	nd Fund IV Limited Partner	) (a) Coal Operat	N/A	
(a) Name Address	1512 East Franklin		Address		
Address	Chapel Hill, NC 275		Address		
(b) Name			(b) Coal C	wner(s) with Declarat	tion
Address			Marin	WICI(b) WINI DOGARA	2020
Address			Address		
	9				
(c) Name			Name		
Address			Address		
	1				
Inspector	Derek Haught		(c) Coal L	essee with Declaration	1
Address	PO Box 85		Name		
11001000	Smithville, WV 2617	78	Address	-	
Telephone	304-206-7613		11441688	(	
reiephone					
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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.

07/09/2021



RECEIVED Office of Oil and Gas

JUL 0 1 2021

WV Department of Environmental Protection WW-9 (5/16)

API Number	47 - 085	_02403	
Operator's W	ell No.		

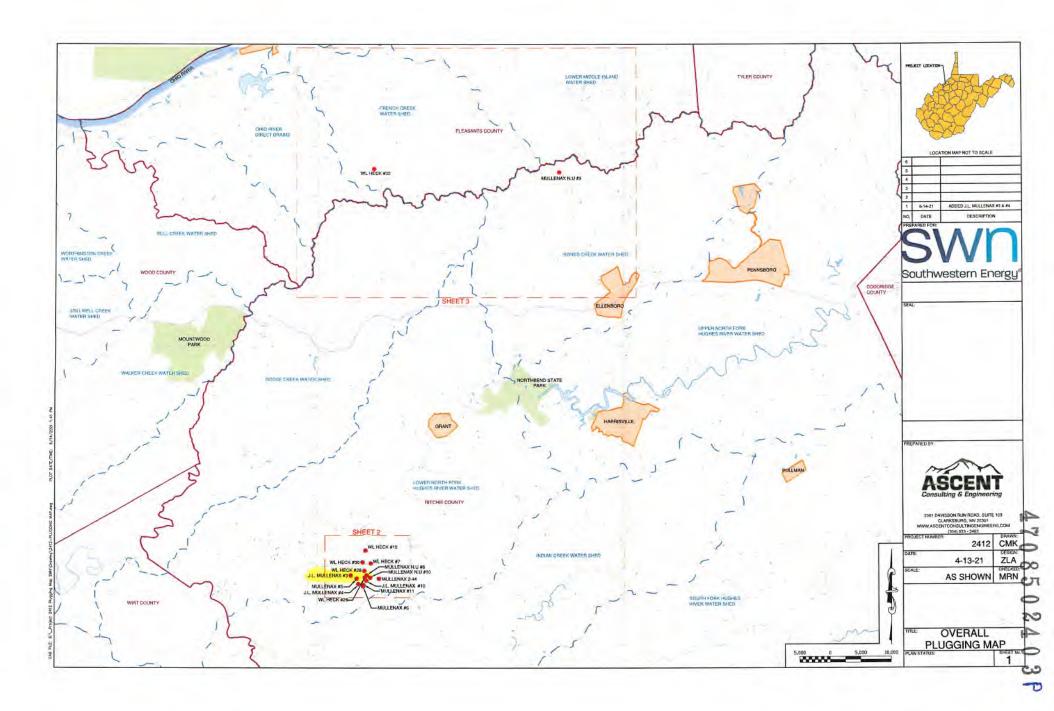
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

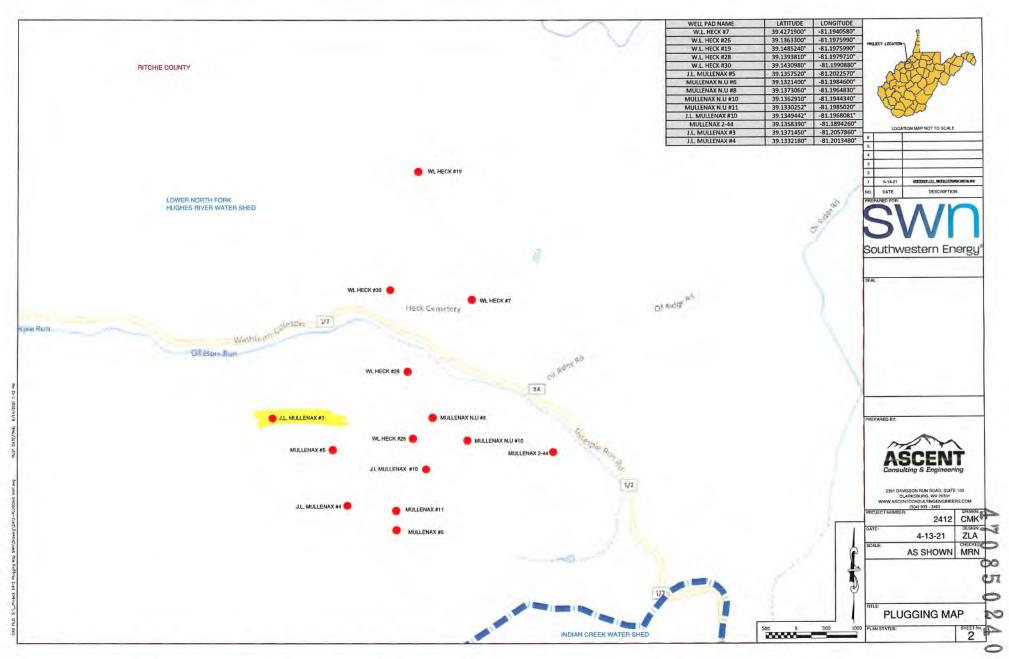
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

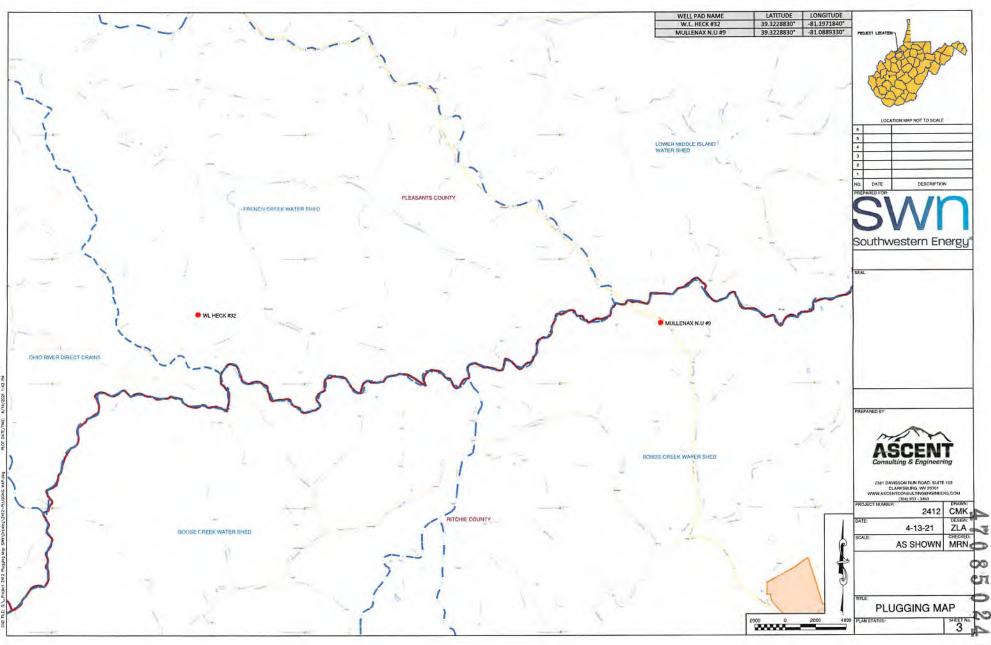
Operator Name Virco	OP Code 7434
Watershed (HUC 10) Gillespie Run	Quadrangle Cairo
Do you anticipate using more than 5,000 bbls of water	er to complete the proposed well work? Yes No <
Will a pit be used? Yes No 🗸	Any well effluent will be contained in tanks before disposing off-site
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Ye	s No V If so, what ml.?
Proposed Disposal Method For Treated Pit	Wastes:
	cted provide a completed form WW-9-GPP)  UIC Permit Number_TBD pending selection of plugging contractor)
	form WW-9 for disposal location)  RECEIVED Office of Oil and Gas
Will closed loop systembe used? If so, describe: N/	JUL 0 1 2021
Drilling medium anticipated for this well (vertical an	wv Department of MV Dep
-If oil based, what type? Synthetic, petrolet	um. etc. N/A
Additives to be used in drilling medium? N/A	
Drill cuttings disposal method? Leave in pit, landfill,	, removed offsite, etc. N/A
-If left in pit and plan to solidify what media	um will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?	
	of Oil and Gas of any load of drill cuttings or associated waste rejected at any see provided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of th provisions of the permit are enforceable by law. Viol or regulation can lead to enforcement action.  I certify under penalty of law that I have application form and all attachments thereto and that the information, I believe that the information is the submitting false information, including the possibility Company Official Signature	terms and conditions of the GENERAL WATER POLLUTION PERMIT issued e West Virginia Department of Environmental Protection. I understand that the lations of any term or condition of the general permit and/or other applicable law personally examined and am familiar with the information submitted on this , based on my inquiry of those individuals immediately responsible for o btaining ue, accurate, and complete. I am aware that there are significant penalties for y of fine or imprisonment.
Company Official (Typed Name) Brittany Woody	
Company Official Title Senior Regulatory Analyst	
7113	N .
Subscribed and swom before me this	day of 20 21
My commission expires 5 6 23	Notary Rublic OFFICIAL SEAL NOTARY PUBLIC, State Of West VI ELIZABETH A DAY 682 VINBRY Road

Form WW-9

ed Revegetation Treatment: Acres Disturbed ON	NE Preveg etation pH	5.5
Lime Two Tons/acre or to correct		
Fertilizer type 10-20-20	and the same	
Fertilizer amount 500	lbs/acre	
Mulch 50 Bales 2.5	_Tons/acre	
	Seed Mixtures	
Temporary	Регнане	)t
Seed Type lbs/acre	Seed Type	lbs/acre
	Orchard Grass	30%
	Rye (annual @BT)	35%
	Timothy (Climax)	25%
	Clayor (Mod Ped)	10%
s; s) of road, location, pit and proposed area for land ed). If water from the pit will be land applied, prob, and area in acres, of the land application area.	application (unless engineered plans includin vide water volume, include dimensions (L. W	g this info ha
<ul> <li>s) of road, location, pit and proposed area for land ed). If water from the pit will be land applied, pro</li> </ul>	application (unless engineered plans includin	g this info ha . D) of the pit
s) of road, location, pit and proposed area for land ed). If water from the pit will be land applied, proband area in acres, of the land application area. copied section of involved 7.5' topographic sheet.	application (unless engineered plans includin vide water volume, include dimensions (L, W	g this info ha . D) of the pit
s) of road, location, pit and proposed area for land ed). If water from the pit will be land applied, proband area in acres, of the land application area. copied section of involved 7.5' topographic sheet.  approved by: Derek M. Haught.	application (unless engineered plans includin vide water volume, include dimensions (L, W	g this info ha . D) of the pit
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## West Virginia Department of Environmental Protection Office of Oil and Gas

### WELL LOCATION FORM: GPS

API: 47-085-02403	WELL NO.:	3
FARM NAME: J.L. Mullenax		
RESPONSIBLE PARTY NAME: Virco		
	Gr	ant
QUADRANGLE: Cairo		
SURFACE OWNER: Heartwood Fores	tland Fund IV Lim	nited Partnership
ROYALTY OWNER: Heartwood Fores		
UTM GPS NORTHING: 4,332,050.		
	GPS ELEVAT	TON. 867'
The Responsible Party named above has chospreparing a new well location plat for a pluggrabove well. The Office of Oil and Gas will no	en to submit GPS coording permit or assigned	dinates in lieu of API number on the
The Responsible Party named above has chose preparing a new well location plat for a plugg above well. The Office of Oil and Gas will not the following requirements:  1. Datum: NAD 1983, Zone: 17 North height above mean sea level (MSL)	en to submit GPS coording permit or assigned t accept GPS coordinate.	dinates in lieu of API number on the tes that do not meet eters, Altitude:
The Responsible Party named above has chospreparing a new well location plat for a plugg above well. The Office of Oil and Gas will not the following requirements:  1. Datum: NAD 1983, Zone: 17 Northeight above mean sea level (MSL 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method:	en to submit GPS coording permit or assigned t accept GPS coordinate, Coordinate Units: m	dinates in lieu of API number on the tes that do not meet eters, Altitude:
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085-93403

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· 085-00085-08024

085-93326

47085024036

J.L. Mullenax #3 API 47-085-02403 P

11/10/2016

PLUGGING PERMIT CHECKLIST

Pluggir	ng Permit
V,	WW-4B
V	WW-4B signed by inspector
	WW-4A
	SURFACE OWNER WAIVER OF PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERITFIED MAIL
NA	COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
	WW-9 PAGE 1 (NOTARIZED)
	WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
MA	WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
	RECENT MYLAR PLAT OR WW-7
V,	WELL RECORDS/COMPLETION REPORT
V	TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
V	MUST HAVE VALID BOND IN OPERATOR'S NAME
MA	CHECK FOR \$100 IF PIT IS USED

Office of Oil and Gas

JUL 01 2021

WV Department of Environmental Protection