

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

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 MULLENAX 4 47-085-01915-00-00

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.

Operator's Well Number: MULLENAX 4

Farm Name: ELLIOTT, MARY

U.S. WELL NUMBER: 47-085-01915-00-00

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. 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.
- 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 10/	1
1) Date UN 2) Operator's	, 2021
2) Operator's	1.
Well No. J.	
3) API Well N	0 . 47 - oss - otens

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

1	Location: Elevation 925	Watershed Gilles	pie Run
1	District Grant	County Ritchie	Quadrangle Cairo
	Vine		Brittany Woody
)	Well Operator Virco Address 1300 Fort Pierpont Dr., Suite 201	7) Designated Ac	gent Brittany Woody cess 1300 Fort Pierpont Dr., Suite 20
	Morgantown, WV 26508	Addi	Morgantown, WV 26508
j	Oil and Gas Inspector to be notified Name Derek Haught	9)Plugging Cont	tractor
	Address PO Box 85	Address	
	0-14-11-11-100/ 00470		
	Smithville, WV 26178 Work Order: The work order for the manners of the work order for the manners of the work order for the manners of the m		
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Well Name:	J.L. Mullenax #4	Casing	Depth	<u>OH</u>	Comment	Shot interval
API-#:	47-085-01915	Cond.	?			1638' - 1650'
County/St.	Ritchie,WV	10"	178'	12"	Pulled	
County/St.	925 ft.	8 1/4"	994'	9 3/4"	Pulled	
					Left in well,csg set on 6 5/8 x 8 1/4 anchor	
₽	1769 ft./ 2001 ft.	6 5/8"	1410'	8"	packer @ 1350 ft.	
		5 3/16"	150		Present @ surface. Must be set on H.W. packer	
4		2"			None present in wellbore	

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

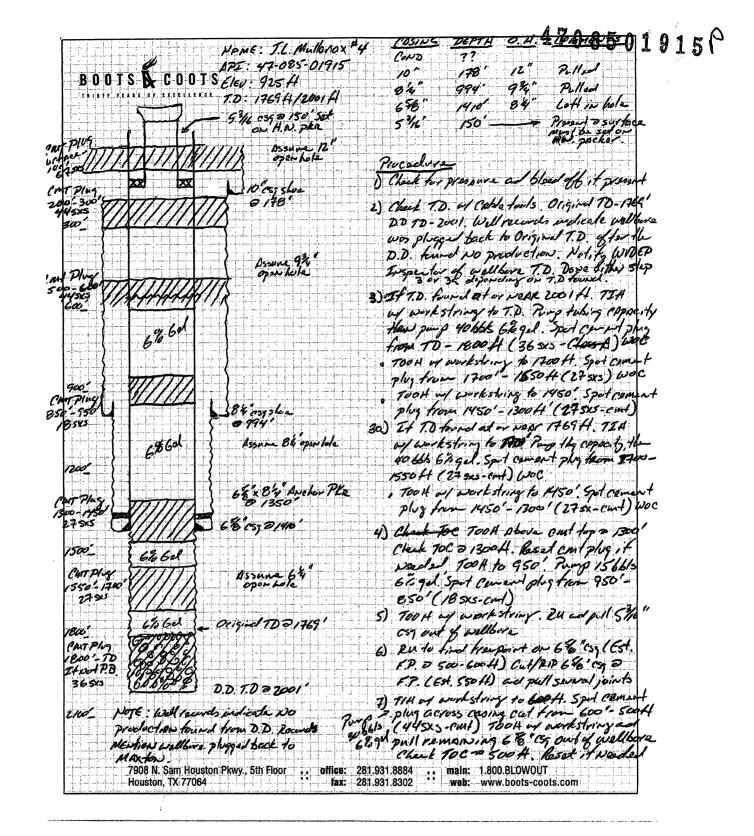
Original TD - 1769 ft. Wellbore deepened in 1958 to 2001 ft. No additional production found from drill deeper. Records indicate that wellbore might have been plugged back to original TD.

Procedures

- 1) MIRU all plugging equipment, install all sediment and erosion controls and secondary containment
- 2) 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 5/8" casing)
- 3) Check pressures and bleed off if present.
 - Check well TD with cable tools. Original TD 1769 ft., D.D. TD 2001 ft. Well records indicate that the wellbore was plugged back to the original TD after the D.D.
- 4) when no additional production was found. Notify WVDEP inspector of wellbore T.D. Follow steps 5 or 5a depending on the wellbore T.D.
- 5) If TD found at or near 2001 ft. TIH with workstring to TD. Pump tubing capacity and then 40 bbls. of 6% Gel, spot cement plug from TD 1800 ft. (36 sacks cement), TOOH w/ workstring to 1700 ft.WOC, Spot cement plug from 1700 ft. 1550 ft. (27 sacks cement), TOOH w/ workstring to 1450 ft.WOC, Spot cement plug from 1450 ft. 1300 ft. (27 sacks cement). Go to step #6
- 5a) If TD is found at or near 1769 ft. TIH w/ workstring to 1700 ft. Pump tubing capacity then 40 bbls. of 6% Gel, spot cement plug from 1700 ft. 1550 ft. (27 sacks cement), TOOH w/ workstring to 1450 ft. WOC, Spot cement plug from 1450 ft. 1300 ft. (27 sacks cement). Go to step #6
- 6) TOOH with workstring to above TOC @ 1300 ft., WOC, Check TOC, reset plug if needed, if not go to Step #7
- 7) TOOH w/ workstring to 950 ft. Pump 15 bbls. 6% Gel and then spot cement plug from 950 ft. 850 ft. (18 sacks -cement)
- 8) TOOH w/ workstring, RU and pull 5 3/16" casing out of wellbore. NORM test 5 3/16" casing
- 9) RU and find free point on 6 5/8" casing (Estimate F.P. @ 500 ft. 600 ft.). CUT/RIP 6 5/8" casing@ F.P. (Est. 550 ft.) and pull several joints
- 10) TIH with workstring to set cement plug across 6 5/8" casing cut to 600 ft. Pump 30 bbls of 6% Gel ahead and spot cement plug from 600 ft. 500 ft. (44 sacks -cement)
- 11) TOOH with workstring, pull remaining 6 5/8" casing. NORM test 6 5/8" casing
- 12) Check TOC @ 500 ft., reset cement plug if needed, if not TIH with workstring to 300 ft.
- 13) If wellbore has not circulated then pump water until the wellbore circulates then pump 10 bbls. of 6% Gel, spot cement plug from 300 ft. 200 ft. (44 sacks cement)
- 14) TOOH w/ workstring to 100 ft. Spot cement plug from 100 ft. to surface (67 sacks cement)
- 15) TOOH w/ workstring and top off wellbore w/ cement
- 16) Erect monument per WVDEP Regs.
- 17) RDMO equipment, dispose of circulated fluids properly
- 18) Reclaim location and access road to WVDEP Regs.

Office of Oil and Gas

WV Department of



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WV Department of Environmental Protection



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					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Oil or Gas	Well Oil
Company C. B. Address 1003 G1	Beards endale	Rd. Marie	tta, Ohio	Casing and Tubing	Used in Drilling	Loft in Well	Packers
Parm J. L. S. N	.U. No	llennax		Bise	 	1	1
Location (waters) 4	Gilles	pie Kun	925.5	10			ind of Packer
District Grant		Comty Kite	nie	14			
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Mineral rights are own	ned by	Same.		. 4%	1420		epth set
Drilling commenced.	Sent	8. 1058	1 /4.	/ 63/34	Bines	150	irf. top
Drilling completed	Sept.	27, 1958	1 2 4	•	1995	1.1995 P	erf. bottom
Date Shot	Prois	T.		Liners Used			erf. top
Open Ploy /100	ne Water		Toch				
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Rock Press		The .	1		NCOUNTERED	AT TE	ET TNOH
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Salt water		fort	for	PER			erinchi
Fermation	Color :	Hard of Beft	Top	Bottom	Otl. Gas or Water	Depth Found	Remarks
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WELL RECORD.

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Set packer at 1350 ft. with perforated joint under packer. Anchor packer, 6-5/8" x 82".

Well filled up to 2600 ft. with rock and poles, sto.

Shot December 5, 1917 with 40 Quarts, 12 ft. Shell. From 1638 to 1650.

10 ft. Anchor. Drilled deeper Sept. 1958. Increased oil is gas sand and Maxon to approximately 1 bbls. per day. No production found below. Lime 1770 to 1830 --- Keener 1830 to 1860 --- Injun 1860 to 1960 . Slack Slate & Sand 1960 to 1990 --- Squaw 1990 to 2001. Total depth 2001. Set 31" pipe on 6 5/8" hook-wall packer at 350'. Put well back to pumping. 32 page 15 Not present a well

WW-4A Revised 6-07

1) Date:			
2) Operator's Well Numb J.L. Mullenax \$4	er		
3) API Well No.: 47 -	085	01915	

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

1) 0 0 0	2343	F\ /	- \ O I O	13.		
	vner(s) to be served		a) Coal Operato Name			
(a) Name	1512 East Franklin St.	Fund IV Limited Partnersh	Address	N/A		
Address	Chapel Hill, NC 27514		_ Address	-		
(b) Name	-		(b) Coal Ox	wner(s) with Declara	ition	
Address			Name	Cartes a Delice and Control		
Address	-		Address			
(A) NI			Name	-		
(c) Name Address	-		Address	-		
* *CCC COO				1		
) Inspector	Derek Haught		(c) Coal Le	ssee with Declaratio	n	
Address	PO Box 85		Name			
	Smithville, WV 26178		Address			
Telephone	304-206-7613		_			
(2) The	l its and the plugging we plat (surveyor's map) s n you received these docu	ork order; and showing the well location ments is that you have rig	on on Form WW-6.	n sets out the parties inv		
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The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of the 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.



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Office of Oil and Gas

JUL 0 1 2021

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

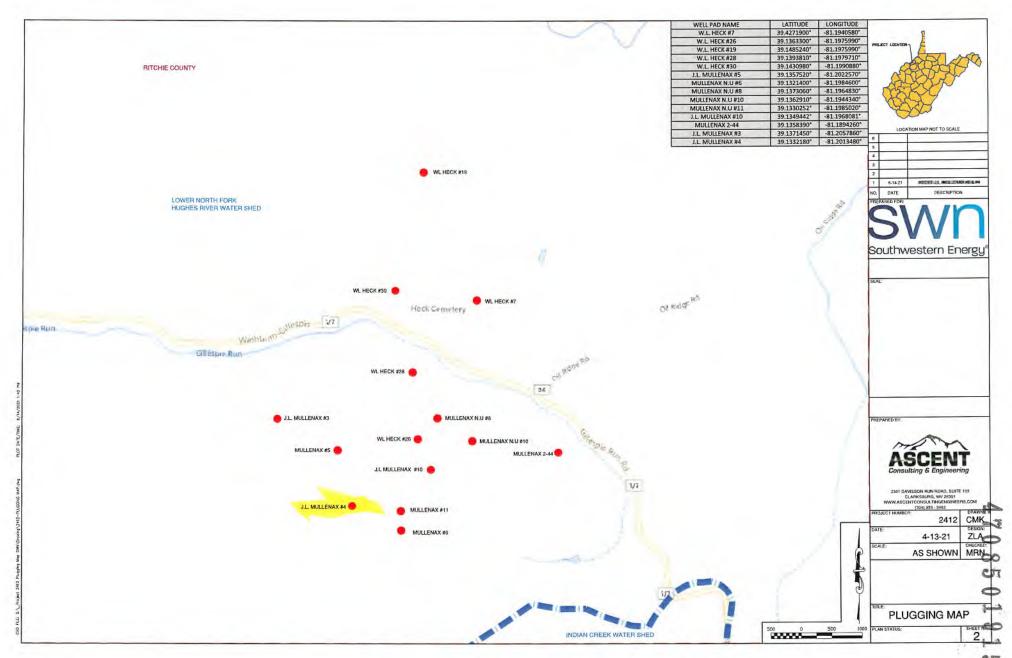
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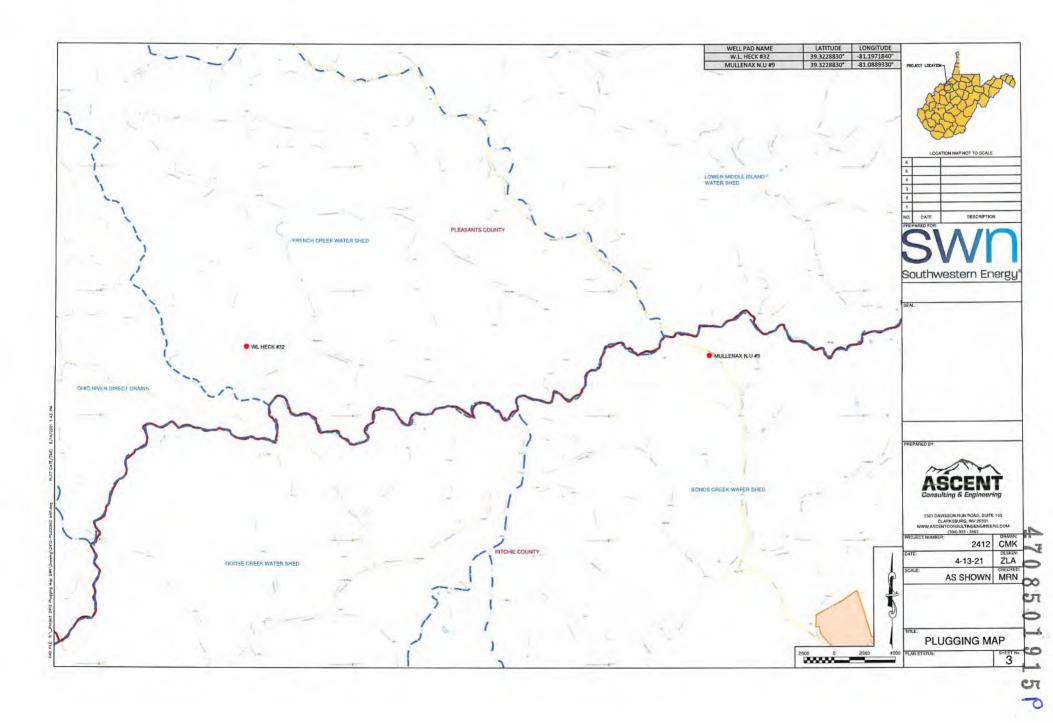
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

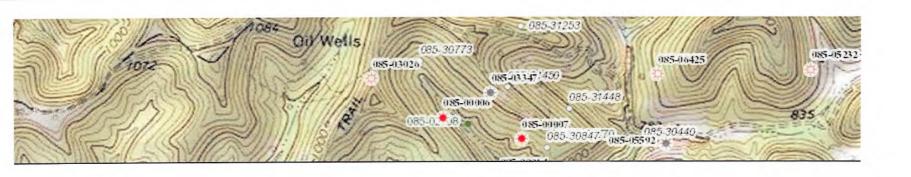
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Virco	OP Code 7434
Watershed (HUC 10) Gillespie Run	Quadrangle Cairo
Do you anticipate using more than 5,000 bbls of water to	
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? Yes _	No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit Wa	stes:
Underground Injection (UIC Reuse (at API Number	provide a completed form WW-9-GPP) Permit Number_TBD pending selection of plugging contractor mww-9 for disposal location)
Will closed loop systembe used? If so, describe: N/A	
Drilling medium anticipated for this well (vertical and h	orizontal)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum,	etc. N/A
Additives to be used in drilling medium? N/A	
Drill cuttings disposal method? Leave in pit, landfill, re	moved offsite, etc. N/A
-If left in pit and plan to solidify what medium	will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?	
	and Gas of any load of drill cuttings or associated waste rejected at any rovided within 24 hours of rejection and the permittee shall also disclose
on April I, 2016, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violatic or regulation can lead to enforcement action. I certify under penalty of law that I have per application form and all attachments thereto and that, ba	
Company Official Signature	Office of Oil and Gas
Company Official (Typed Name) Brittany Woody	JUL 0 1 2021
Company Official Title Senior Regulatory Analyst	WV Department of Environmental Protection
Subscribed and swom before me this B da My commission expires 5 6 33	Notary Public OFFICIAL SEAL Notary Public, State Of West Virginia ELIZABET AT 100 9/20 Buckhanrion, WV 26201 My Commission Expires May 06, 2023

Form WW-9 Operator's Well No. Prevegetation pH 5.5 Proposed Revegetation Treatment: Acres Disturbed ONE Lime Two Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 Fertilizer amount 500 lbs/acre Mulch 50 Bales 2.5 Tons/acre **Seed Mixtures** Permanent Temporary Seed Type lbs/acre lbs/acre Seed Type 30% **Orchard Grass** 35% Rye (annual @BT) 25% Timothy (Climax) 10% Clover (Med.Red) Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Derek M. Haught Comments: RECEIVED
Office of Oil and Gas JUL 0 1 2021 WV Department of Environmental Protection Title: Oil & Gas Inspector Date: 6/21/21)No Field Reviewed? **__X**___) Yes



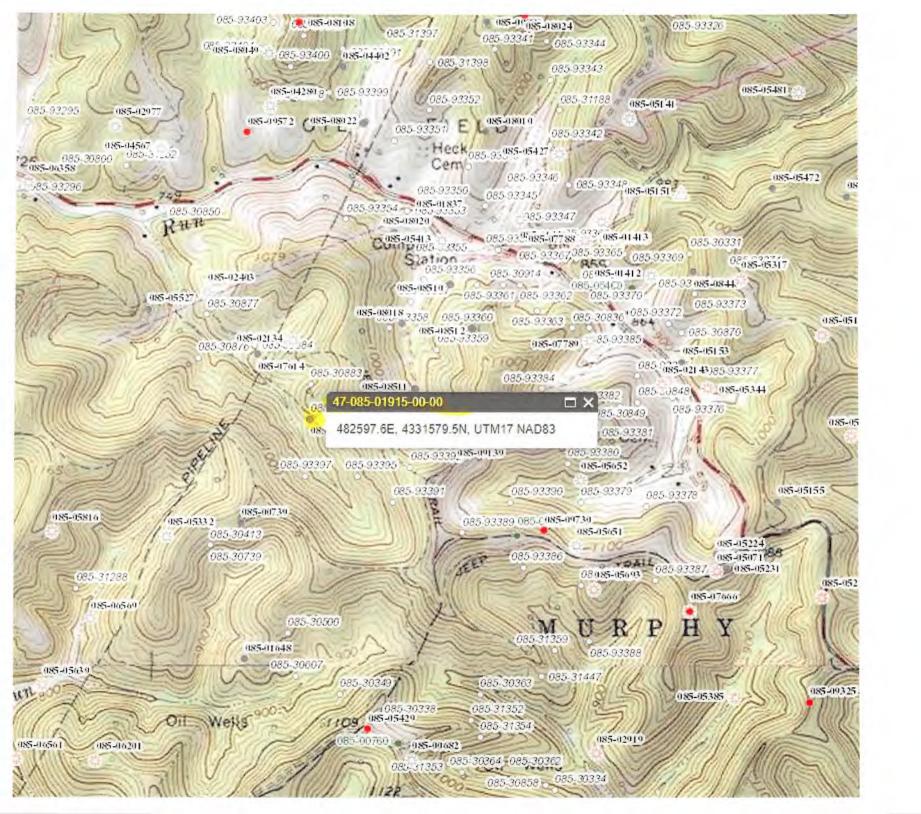






West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

_{API:} 47-085-01915		_ WELL NO.:	1
FARM NAME: J.L. Mulle			
RESPONSIBLE PARTY NAM			
	1	DISTRICT: Gr	ant
QUADRANGLE: Cairo			
SURFACE OWNER: Hearty	wood Forestlan	d Fund IV Lim	ited Partnership
ROYALTY OWNER: Hearty	wood Forestlan	d Fund IV Lim	ited Partnership
UTM GPS NORTHING: 4,3			
UTM GPS EASTING: 482,		GPS ELEVAT	10N. 925'
The Responsible Party named al preparing a new well location plabove well. The Office of Oil ar	bove has chosen to lat for a plugging p	submit GPS coor ermit or assigned	dinates in lieu of API number on the
The Responsible Party named all preparing a new well location plabove well. The Office of Oil and the following requirements: 1. Datum: NAD 1983, 2 height above mean so 2. Accuracy to Datum.	bove has chosen to lat for a plugging p nd Gas will not acco Zone: 17 North, Co ea level (MSL) – m – 3.05 meters	submit GPS coor ermit or assigned ept GPS coordina pordinate Units: m	dinates in lieu of API number on the tes that do not meet teters, Altitude:
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J.L. Mullerax #4 API 47-085-01915 P

11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit	Office of Oil and Gas
$\overline{}$	JUL 0 1 2021
WW-4B WW-4B signed by inspector	WV Department of Environmental Protection
WW-4A	
SURFACE OWNER WAIVER or MAIL	PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERITFIED
COAL OWNER/COAL OPERATOR BY REGISTERED OR CERTIFIED	DR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT
WW-9 PAGE 1 (NOTARIZED)	
WW-9 PAGE 2 with attached	drawing of road, location, pit and proposed area for land application
WW-9 GPP PAGE 1 and 2 if we	ell effluent will be land applied
RECENT MYLAR PLAT OR WW	-7
WELL RECORDS/COMPLETION	REPORT
TOPOGRAPHIC MAP OF WELL	, SHOWING PIT IF PIT IS USED
MUST HAVE VALID BOND IN C	DPERATOR'S NAME
CHECK FOR \$100 IF PIT IS USE	D