

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, February 16, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

NYTIS EXPLORATION COMPANY LLC PO BOX 8

RAVENSWOOD, WV 26164

Re: Permit approval for KEM-298

47-035-01827-00-00

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.

James A. Martin Chief

Operator's Well Number: KEM-298

Farm Name: PURSLEY, DENA

U.S. WELL NUMBER: 47-035-01827-00-00

Vertical Plugging Date Issued: 2/16/2021

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</u> 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.

PLUGGING PROGNOSIS

API# 47-035-01827 West Virginia, Jackson County 38.9010748419186, -81.5706650795753

Nearest ER: Jackson General Hospital 122 Pinnell St. Ripley, WV 25271

Casing Schedule

10 3/4" csg @ 249' CTS w/ 175 sks 7" csg @ 2485' CTS w/ 275 sks. 2 3/8 » tbg est @ 2450' w rods TD 2528'

91/2" BIT

7" TOC & 1000 FROM

50-50 POZMIX A W/ 10% SALT HAS A SLURRY WOLUME OF 1.29 CULT /SK 275 SKS X 1,29 CU.FT = 354,75 CU.FT.

Completion: Frac (2406' - 2410')

Fresh Water: None Recorded Salt Water: None Recorded Gas Shows: Berea 2406'-2410' Oil Show: Berea 2406'-2410'

Coal: None Recorded Elevation: 751'

6.9.

7" CASING IN 91/2" HOLE 4,448 LIVET + 354.75 CU.FT = 1577 FT

All Free pipe will be pulled.

1. Notify Inspector Joe Taylor @ 304-380-7469, 48 hours prior to commencing operations.

2. Check and record pressures on csg/tbg.

3. TOOH LD tbg and rods. Inspect tbg.

4. Check TD w/ wireline.

5. TIH w/ tbg to 2410'. Kill well as needed with 6% bentonite gel. Pump 104' C1A cement plug from 2410'-2306' (Berea show). Tag TOC. Top off as needed.

6. TOOH w/ tbg to 2306'. Pump 6% bentonite gel from 2306'-751'.

7. TIH w/ tbg to 751'. Pump 100' C1A cement plug from 751'-651' (Elevation).

8. TOOH w/ tbg to 651'. Pump 6% bentonite gel from 651'-100'.

9. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100'-0' (Surface). TOOH LD tbg.

10. Erect monument with API#, date plugged, and company name.

11. Reclaim location and road to WV-DEP specifications.

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DEC 28 2020

WV Department of Environmental Protection

CUT & PULL 7" CASING AT \$ 1000'.

SET 100' CLASS A CEMENT PLUG ACROSS CUT.

OIL & GAS DIVISION
DEPT. OF MINES



State of Mest Airginia

Department of Mines Oil and Cas Division

Date	June 27, 1983
Operator's Well No.	Kem 298
Farm	Batten
API No. 47	- 035 - 1827

WELL OPERATOR'S REPORT

OF

						•
DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

		Production X /		nd Storag			ITTOM_X_\)
LOCA	TION: Elevation:	751 Wate	rshed		Trag	Run	·
•	District: RE	venswood Coun	ty Ja	ckson	Quadrangl	<u>Liver</u>	pool
:		•					•
COME	ANY Kaiser Explora	tion and Mining	Company				
ADDF	ESS P. O. Box 8, 1	avenswood, WV.	26164	Casing	Used in	Left	Cement
	GNATED AGENT Robert			QX.	Drilling		fill up
		Ravenswood, WV	26164	Tubing Size	DITITING	TII METT	Cu. ft.
SURF	ACE OWNER Dena E.	Pursley		20-16			1
ADDI	ESS Rt. 1, Liverpo	ool, WV		Cond.			175 Class
	RAL RIGHIS OWNER F.			1⁄3 ∕-10"3/-		249	3% CaCl 1/
	ESS Rt. 1, Liverpo			9 5/8	ļ		ļ
	AND GAS INSPECTOR FO		mer	8 5/8			275 50/50
Da	ugherty ADDRESS L	nden Rt, Box 3-	A	7		2485	1/4#/sk Fl
PER	HT ISSUED Apr	.1 6, 1983 Looney	ville,W	5 1/2			
	LING COMMENCED 5/1			4 1/2	ļ		ļ
	LING COMPLETED	7.00		3			
	PPLICABLE: PLUGGIN	OF DRY HOLE OF	J	2			ļ
CONI	INUOUS PROGRESSION I	ROM DRILLING OF	3.	Liners			
REWC ON	RKING. VERBAL PERMI	SSION OBTAINED		used			
_			 :		<u> </u>		\
GEOL	OGICAL TARGET FORMAT				e Dept	***************************************	feet
	Depth of completed				/ Cable		
	Water strata depth:		_feet; \$		feet		
	Coal seam depths:	N/A					area? No
OPEN	FIOW DATA		•	ori i lea,	on fluid -	HOL KHOW	1
	Producing formation	Berea		Pay	zone dept	h 2406 -	²⁴¹⁰ feet
	Gas: Initial open	flow_N/A	Mcf/d		tial open		
	Final open fl	OW35	Mcf/d	Fina	al open fl	.cw 40	Bb1/d
	Time of	open flow betwe	en initia				
	Static rock pressur	e ₃₅₀ psic	(surface	measurem	ent) after	48 hou	rs shut in
	(If applicable due				•		
•	Second producing fo	rmation		Pay	zone dept	h	feet
CEIVED Oil and Gas	Gas: Initial open	flow	Mcf/d C	il: Init	ial open	flow	Bb1/d
Oil and Gas	Final open fl	CM	Mcf/d c	il: Fina	al open fl	ow	Bb1/d
2 2 2020	Time of	open flow betwo	en initia	l and fir	al tests	ho	ırs
partment of	Static rock pressur						

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STRIBLATING, PHYSICAL CHANGE, ETC.

5/25/83 Berea Perforated w/16 shots (.41" dia) 2406 - 2410

5/27/83 Berea x-link gel frac: 100 bbl gel 50 bbl x-link Sand: 70,000 #20/40

Total Nitrogen 285 mscf Total Fluid 781,661 ISIP: 1400 psig 5-minute SIP= 1140

WELL LOG

•			•
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale and Sandstone Sandstone Shale and Siltstone Sandstone and Shale Shale Sandstone Greenbrier Limestone Shale Pocono Injun Shale and Siltstone Coffee Shale Berea Sandstone Shale	0 550 628 1130 1600 1727 1880 1960 1982 2040 2391 2406 2413	550 628 1130 1600 1727 1880 .1960 1982 2040 2391 2406 2413 2528 TD	\$/0

(Attach separate sheats as necessary)

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Kaiser Exploration and Mining Company
Well Operator
By: Fell a. P
Date: July 19, 1983

Note: Regulation 2.02(i) provides an follows:

"The term 'log' or 'well log' shall mean a nystematic detailed geological record of all formations, including earl, encountered in the drilling of a well."

WW-4B Rev. 2/01

1) Date December 18th	2020
2) Operator's	
Well No. PURSLEY DENAKE	EM-298
3) API Well No. 47-035	- 01827

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

4)		il/ Gas X/ Liquid		
	(If "(Gas, Production X or Unc	derground storage) Deep/ Shallowx
5)) Location: Elevation 746' District Ravenswood		Watershed Left For	rk Sandy Creek
5 /			County Jackson	QuadrangleLiverpool
				in all the second
6)	Address P.O. Box 6070		7) Designated Age	ent Jeff Mast
			Addre	P.O. Box 6070
		Charleston, WV 25362		Charleston, WV 25362
2	1 5 m 1 m 2 2 m 2 m	la de la	0) 51	reator
8)	Oil and Gas I	nspector to be notified	9) Plugging Cont	rsified Production LLC (In-house Rig)
		8 Claylick Road		951 Pleasantview Ridge Road
		ey, WV 25271		Ravenswood, WV 26164
.0)	Work Order: See attached	The work order for the man	ner of plugging th	his well is as follows:
.0)	and the second second	The work order for the man	ner of plugging t	
LO)	and the second second	The work order for the man	ner of plugging t	his well is as follows: RECEIVED Office of Oil and Gas
110)	and the second second	The work order for the man	ner of plugging t	RECEIVED
10)	and the second second	The work order for the man	ner of plugging th	Office of Oil and Gas DEC 2 8 2020
10)	and the second second	The work order for the man	ner of plugging the	Office of Oil and Gas
Not	See attached	be given to the district o		RECEIVED Office of Oil and Gas

01827

WW-4A Revised 6-07

1) Date:	12/18/2020	
	or's Well Number	
PURSLEY DENA		

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

3) API Well No.: 47 -

	ner(s) to be served:	Name		
(a) Name	David G & Gladys J Wade 5620 Liverpool Road	Address	-	
Address	Leroy, WV 25252	7,444,656		
(1 \ NT	Leroy, VVV 20232	(b) Coal O	wner(s) with Declarat	ion
(b) Name Address	1	Name	No Declaration	
Address		Address		
(c) Name		Name		
Address		Address		
3) Inspector	Joe Taylor		essee with Declaration	1
Address	1478 Claylick Road	Name		
	Ripley WV 25271	Address		
Telephone	304-380-7469		1	
llaur.	its and the plugging work order; a	nd		olved in the work and describes the
well (2) The The reason However, Take notic accompany Protection	its and the plugging work order; a plat (surveyor's map) showing the a you received these documents is that you are not required to take any action are that under Chapter 22-6 of the West ying documents for a permit to plug and the content of the west wing documents.	well location on Form WW-6. you have rights regarding the appart all. Virginia Code, the undersigned well abandon a well with the Chief of the described on the attached Application of the registered or certified mail or	plication which are summarized ell operator proposes to file or f the Office of Oil and Gas, We	olved in the work and describes the line instructions on the reverses side has filed this Notice and Application and st Virginia Department of Environmenta hed Form WW-6. Copies of this Notice on(s) named above (or by publication in PECEIVED
well (2) The The reason However, Take notic accompany Protection	its and the plugging work order; a plat (surveyor's map) showing the a you received these documents is that you are not required to take any action are that under Chapter 22-6 of the West ying documents for a permit to plug and, with respect to the well at the location action, and the plat have been mailed cumstances) on or before the day of managements.	well location on Form WW-6. you have rights regarding the appart all. Virginia Code, the undersigned well abandon a well with the Chief of a described on the attached Application or delivery to the Chief.	ell operator proposes to file or fithe Office of Oil and Gas, We sation and depicted on the attacted by hand to the personal t	I in the instructions on the reverses side has filed this Notice and Application and st Virginia Department of Environmenta hed Form WW-6. Copies of this Notice
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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 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.

Well Number: KEM-298 API: 47-035-01827P

0801	U.S. Postal Service™ CERTIFIED MAIL® REC	EIPT
4 08	For delivery information, visit our website	e at www.usps.com®.
7017 1450 0002 385º	Certified Mail Fee \$3.55 \$	0523 03 Postmark Here 12/21/2020 KEM 298
	PS Form 3800, April 2015 PSN 7530-02-000-9047	See Reverse for Instructions

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WV Department of Environmental Protection

API Number 47 -	035	_01827	
Operator's Well N	o. Ker	n 298	

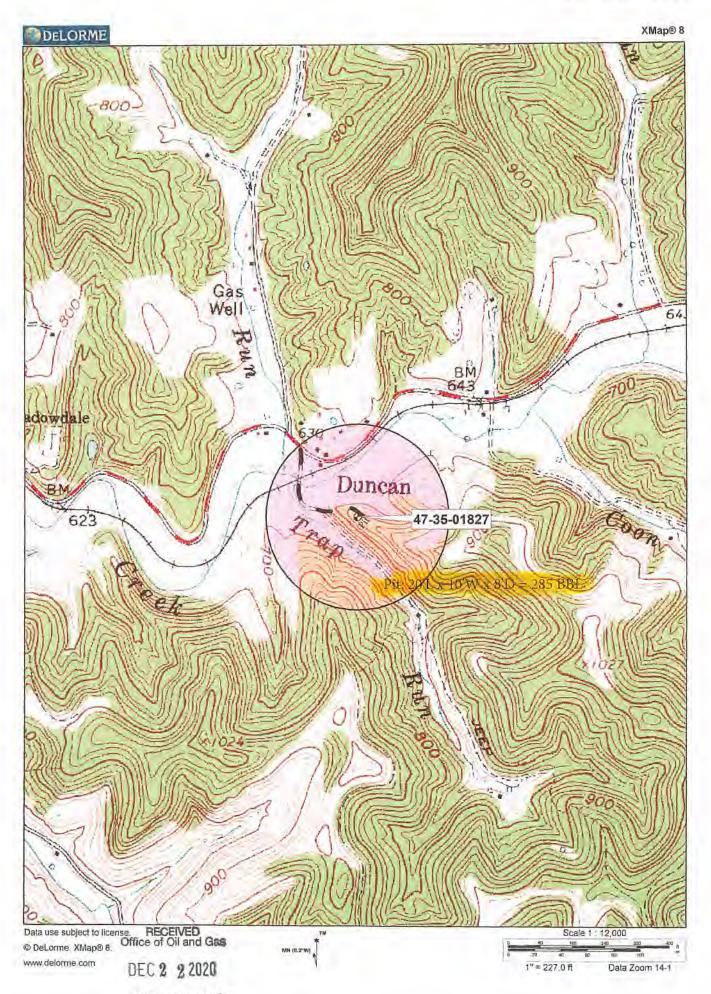
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Nytis Exploration Company LLC	OP Code 494473563
Watershed (HUC 10) Left Fork Sandy Creek	Quadrangle Liverpool
Do you anticipate using more than 5,000 bbls of water to co	omplete the proposed well work? Yes No
Will a nit be used? Yes ✓ No	
If so, please describe anticipated pit waste:	uced fluid and cement returns
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 20
Proposed Disposal Method For Treated Pit Waste	
Land Application (if selected pro	ovide a completed form WW-9-GPP)
Underground Injection (UIC Pe	rmit Number 200190460)
Reuse (at API Number Off Site Disposal (Supply form	WW-9 for disposal location)
Other (Explain_	
Will closed loop system be used? If so, describe: N/A	
Drilling medium anticipated for this well (vertical and hori	zontal)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, et-	c. N/A Office of Oil and Gas
Additives to be used in drilling medium? N/A	DEC 2 8 2020
Drill cuttings disposal method? Leave in pit, landfill, remo	aved offsite etc. N/A
-If left in pit and plan to solidify what medium wi	₩V U6Dartmont - €
-Landfill or offsite name/permit number? N/A	
	any
Permittee shall provide written notice to the Office of Oil	and Cas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.	Adda William 21 House of Agreement 1
	TO THE PART WATER POLITICAL PERMIT issued
A 1 1 2016 by the Office of Oil and Gas of the Wes	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the
provisions of the permit are enforceable by law. Violation	s of any term or condition of the general permit and/or other applicable law
or regulation can lead to enforcement action.	onally examined and am familiar with the information submitted on this
It form and all ottochments thereto and that hase	ed on my inquiry of those individuals immediately responsible to obtaining
the information. I believe that the information is true, ac	courate, and complete. I am aware that there are significant penalties to
submitting false information, including the possibility of f	me of imprisonment.
Company Official Signature	
Company Official (Typed Name) Jeff Mast	
Company Official Title Director Production	
Subscribed and swom before me this 21st day	of December, 2020
PAULE O C	Solus Notary Public
Togas die	Total y and
My commission expires Deptember	16,0023

Operator's Well No. Pursley Dena KEM - 298

	1 +/- Preveg etation pH	
Lime 3 Tons/acre or to corre	ect to pH 6.5	
Fertilizer type 10-20-20 or equivalent		
Fertilizer amount	lbs/acre	
Mulch 2	Tons/acre	
	Seed Mixtures	
Temporary	Permanent	
Seed Type lbs/acre	Seed Type	lbs/acre
Red Fescue 40	Red Fescue 15	
Alsike 5	Alsike Clover 5	
Annual Rye 15		
(L, W), and area in acres, of the land application area.		
provided). If water from the pit will be land applied, p (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic shee		of the pit, and dimen
(L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic shee Plan Approved by:	et.	of the pit, and dimen Office of
L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic shee Plan Approved by:	et.	of the pit, and dimen RE
(L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic shee	et.	of the pit, and dimen Office of



WV Department of Environmental Protection

input coordinates

enter comma delimited coordinates, examples: 38 15 30.1, -81 25 15.2 (lat, lon as degrees minutes seconds)

38.123456, -81.123456 (lat, Ion as decimal degrees) 500000, 4100000 (UTM as easting, northing) 1987654.32, 364123.45 (WV state plane as easting, northing)

38.901006464,-81.571221241

Lat/Lon WGS 1984

Convert

output coordinates

450468.24,4305945.46

UTM NAD83 Zone 17N

V

view on Google Maps

options



display output as degrees/minutes/seconds



zoom to point

history (copy/paste)

1,38.9010065,-81.5712212,LL WGS84(G1674),450468,24,4305945,46,UTM17N NAD83(2011)

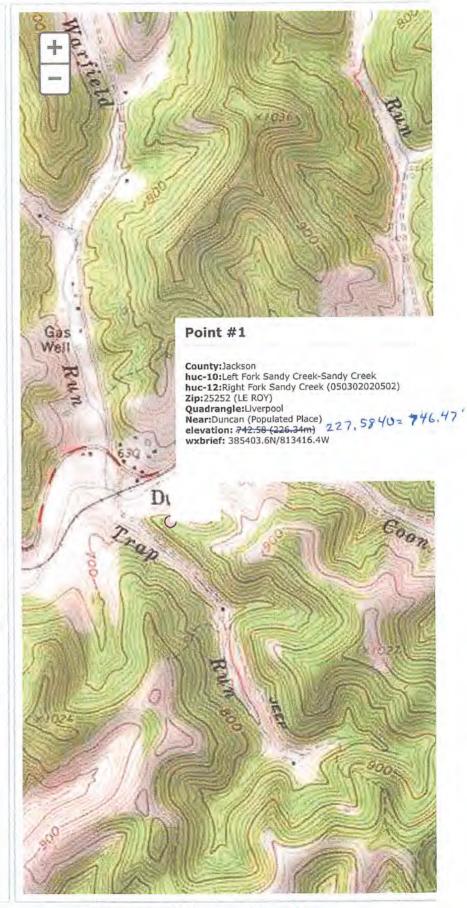
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notes about datum conversions

- 1. Conversions between NAD27 and NAD83. This converts between NAD27 and NAD83(1986) using the NADCON transformation. Newer realizations of NAD83, such as NAD83(CORS96) and NAD83(2011) can differ from NAD83(1986) by a meter or so. This conversion uses the Esri transformation
- NAD_1927_To_NAD_1983_NADCON.
- 2. Conversions between NAD27 and WGS84. Basically this just applies the NADCON transformation from NAD27 to NAD83(1986). NAD83(1986) is the original realization of NAD83, which is practically identical to the original WGS84. The difference between the











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

API: 47-035-01827	WELL NO.:	JRSLEY DENA KEM-298
FARM NAME: Kaiser Exp	loration and Mining Co	. (KEM Gas)
PESPONSIBLE PARTY NAME	Nytis Exploration Co	mpany LLC
COUNTY: Jackson	DISTRICT: Ra	venswood
QUADRANGLE: Liverpoo		
SURFACE OWNER: David		
ROYALTY OWNER: Patric		
UTM GPS NORTHING: 4,30		
UTM GPS EASTING: 450,4		_{ION} . 746 (ft)
the following requirements:		eters, Altitude:
3. Data Collection Metho Survey grade GPS : Post	d:	Office of Oil and Gas DEC 2 2 2020
	-Time Differential	WV Department of Environmental Protection
	eal-Time Differential	
I the undersigned, hereby certify t	e topography map showing the whis data is correct to the best of my on required by law and the regulation of the control of th	knowledge and
AN	Director Production	12/18/2020
Signature	Title	Date

Well Number: Pursley Dena KEM-298 API: 47-035-01827P

11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit		
WW-4B		
WW-4B signed by inspector		
WW-4A		
SURFACE OWNER WAIVER or PROOF T	HAT APPLICATION WAS SENT	BY REGISTERED OR CERITFIED
COAL OWNER/COAL OPERATOR/COAL BY REGISTERED OR CERTIFIED MAIL	LESSEE WAIVERS or PROOF T	THAT APPLICATION WAS SENT
WW-9 PAGE 1 (NOTARIZED)		
WW-9 PAGE 2 with attached drawing	of road, location, pit and prop	posed area for land application
WW-9 GPP PAGE 1 and 2 if well efflue	nt will be land applied	
RECENT MYLAR PLAT OR WW-7		
WELL RECORDS/COMPLETION REPORT	Γ	
TOPOGRAPHIC MAP OF WELL, SHOWI	NG PIT IF PIT IS USED	
MUST HAVE VALID BOND IN OPERATO	PR'S NAME	Office of Oil and Gas
CHECK FOR \$100 IF PIT IS USED		DEC 28 2020
		WV Department of Environmental Protects