

#### 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 61 47-035-01457-00-00

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: 61

Farm Name: KAY, JOHN P.

U.S. WELL NUMBER: 47-035-01457-00-00

Vertical Plugging
Date Issued: 2/16/2021

Promoting a healthy environment.

# T

## **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.

1) Date December 18th 0 3	50145
2)Operator's	20
Well No. KAY JOHN P DEK 61	
3) API Well No. 47-035	- 01457

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

#### APPLICATION FOR A PERMIT TO PLUG AND ABANDON

) Location: Elevation 675'		Watershed Lower	
District Union		County Jackson	Quadrangle Ravenswood
			In ff Mont
Address P.O. Box 6070		7) Designated Age	ess P.O. Box 6070
		Adar	Charleston, WV 25362
	Official Section 1, 111 Education		
		9) Plugging Cont Name Diver	ractor rsified Production LLC (In-house Rig)
Address 147	8 Claylick Road		951 Pleasantview Ridge Road
Ripl	ey, WV 25271	E	Ravenswood, WV 26164
	150 sks x 1,28 x1 = 2413	es x 9,7460	RECEIVED Office of Oil and (
	4284 - 241	3 = 1871	DEC 28 202
			WV Department
	Address Oil and Gas In Name Joe Tay Address 147 Ripl	Charleston, WV 25362  Oil and Gas Inspector to be notified Name Joe Taylor Address 1478 Claylick Road Ripley, WV 25271  Work Order: The work order for the manual ee attached  47-035-01457  To ≈ 4284 4//2" 4262   1	Address P.O. Box 6070 Charleston, WV 25362  Oil and Gas Inspector to be notified Name Joe Taylor Address 1478 Claylick Road Ripley, WV 25271  Work Order: The work order for the manner of plugging tee attached  47-035-01457 P  To ≈ 4284 41/2" 4262   IN 614 14046 150 585 × 1.28 1160 × 9.2460

#### PLUGGING PROGNOSIS

API# 47-035-01457 West Virginia, Jackson County

Casing Schedule

9 5/8" csg @ 250' cemented w/ 100 sx to surface 7" csg @ 2,204' cemented w/ 150 sx to 625' 4 1/2" csg @ 4,262' cemented w/ 150 sx 2,400' (ETC from calculation 6.25" hole and 1.28 yield) Well tubed to unknown depth TD 4,262'

FREEPOINT 2 900' FREE POINT 2 1870'?

#### Completion:

Shale: 3,594'- 3,695'

Fresh Water: None Reported Gas Shows: None Reported Oil Show: None Reported Coal: None Reported Elevation: 675'

- 1. Notify Inspector Joe Taylor @ 304-380-7469, 48 hours prior to commencing operations.
- Check and record pressures on csg/tbg.
- 3. TOOH LD tbg. Inspect tbg.
- 4. Check TD w/ wireline.
- 5. TIH w/ tbg to 3,695'. Kill well as needed with 6% bentonite gel. Pump 201' C1A cement plug from 3,695'-3,494' (Shale Completion). Tag cement and top off if needed
- 6. TOOH w/ tbg to 3,494'. Pump 6% bentonite gel from 3,494'-2,254'.
- 7. Free point 4 1/2" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed. - Poll 41/2 that is free.
- 8. TOOH w/ tbg to 2,204'. Pump 100' C1A cement plug from 2,254'-2,154' (7" csg seat).
- 9. TOOH w/ tbg to 2,327'. Pump 6% bentonite gel from 2,154'-675'.

- 10. Free point 7" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
  - 11. TOOH w/ tbg to 675'. Pump 100' C1A cement plug from 675'-575' (Elevation).
  - 12. TOOH w/ tbg to 714'. Pump 6% bentonite gel from 575'-300'. TOOH LD tbg.
  - 13. TIH w/ tbg to 294'. Pump 100' C1A cement plug from 300'-200' (9 5/8" csg seat).
  - 14. TOOH w/ tbg to 194'. Pump 6% bentonite gel from 200'- 100'.
  - 15. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100'-surface (Surface).
  - 16. Erect monument with API#, date plugged, and company name.
  - 17. Reclaim location and road to WV-DEP specifications. All Free pipe to be pulled!

RECEIVED Office of Oil and Gas

DEC 28 2020

WV Department of Environmental Protection

A 7" FREE POINT MAY BE 2 900'



## STATE OF WEST VIRGINIA

# UEC - \* 1978

Oil\_

## DEPARTMENT OF MINES

### OIL & GAS LIVISION E. OF MINES

# Oil and Gas Division

Rotary\_X WELL RECORD Cable\_ Gas Quadrangle Cottageville Recycling Comb. (47-035-1457) Water Flood\_\_\_ Storage. JAC 1457 Permit No.\_\_\_ Disposal\_\_ (Kind) Kaiser Exploration & Mining Co. Left Cement fill up Company\_ Casing and Used in PO Box 537, Ripley, W. Va. in Well Cu. ft. (Sks.) Address Drilling Tubing Rachel Kay #2 Acres\_ Farm. Location (waters) Branch of Lick Run Size Well No. DEK #61 Elev. 680 20-16 County Jackson Cond. Union District\_ <u>13-1</u>0" The surface of tract is owned in fee by\_ Rachel Kay 250 250 100 Sacks 9 5/8 Address 2807 Lincoln Ave., St. Albans, WV 8 5/8 Mineral rights are owned by John P. Kay, et al 2807 Lincoln Ave., St. 2204 2204 150 Sacks 5 1/2 Albans, WV 4262 150 Sacks 4262 Drilling Commenced July 17, 1978 4 1/2 Drilling Completed July 24, 1978 Initial open flow 36 MCFD 06XXXX PEX XMXXX Final production 85 MCFD CXXXX XMX XMXXXX Liners Used \_bbls. - RP. 4 Days Attach copy of cementing record. hrs. before test\_ Well open .... Well treatment details: Perforated 3594 to 3695 with 21 shots Foam frac with 317 BBLS water, 507,000 SCF nitrogen and 60,000# sand. Coal was encountered at. Fresh water. Brown Shale Producing Sand **Formation** Color Hard or Soft Top Feet Bottom Feet Oil, Gas or Water • Remarks and Gas 2020 ment of

Surface	0	27	
Shales	27	55	RECEIVED Office of Oil and Gas
Red Shales	55	138	Office of Oil and Gas
Sand	138	168	
Shale	168	247	DEC <b>2 8</b> 2020
Red Rock	247	290	520 20 200
Shale & Sand	290	398	MAY Department of
Sand	<b>39</b> 8	426	WV Department of Environmental Protection
Red Rock & Shale	426	840	Elivilotinona
Sand	840	867	
Red Rock	867	922	
Sand	922	964	
Shale	964	978	
Sand	978	1022	
Shale ·	1022	1034	
Sand	1034	1053	
Shale	1053	1090	
Broken Sands	1090	1338	
Shales	1338	1414	
Broken Sands	1414	1476	
Shale	1476	1552	
Sand	1552	1584	
Big Lime	1584	1679	
Shale	1679	1736	
	(ov	er)	

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet 17	Bottom Feet	Oil. Gas or Water - Remail & 703501457F
Injun Sand Shale Coffee Shale Berea Sand Shales Brown Shale Shale Marcellus	1736 1826 2133 2150 2153 3296 3747 4150	1826 2133 2150 2153 3296 3747 4150	
Total Depth	4284		
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	·	·	
•			•
			RECEIVED Office of Oil and Gas
	·		DEC 28 2020
			WV Department of Environmental Protection
	•		

Date	<u>Decem</u>	ber l		, 19 <u>78</u>
APPROVERKAISER	Explorat	ion &	Mining	CO., Owner
Ву. [	Operat	(Title)	nager	<u>*</u>

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		470350145	
te:	12/18/2020	2100000	_

1) Date: 12/18/2020
2) Operator's Well Number

KAY JOHN P DEK 61

3) API Well No.: 47 -

035

01457

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

Surface Ow	ner(s) to be served:		3.7	
(a) Name	Joshua Burge		Name	
Address	49 Affirmed Drive		Address	
	Evans, WV 25241		(1) (1) (1) (1) (1) (1)	N. Janatian
(b) Name			(b) Coal Owner(s) with I	
Address			Name No Declaration	
			Address	
(-) NT			Name	
(c) Name			Address	
Address			_	
Languton	Joe Taylor	1	(c) Coal Lessee with Dec	claration
Inspector Address	1478 Claylick Road	all.	Name	
Address	Ripley WV 25271	W	Address	
m-11	304-380-7469	1		
Telephone	304-300 1400			
(2) The The reaso However,	I its and the plugging work plat (surveyor's map) sho n you received these documen you are not required to take an	c order; and wing the well location that is that you have right my action at all.	n on Form WW-6.	summarized in the instructions on the reverses sides
Take notice accompar	I its and the plugging work plat (surveyor's map) sho n you received these documer you are not required to take at ce that under Chapter 22-6 of nying documents for a permit t	c order; and wing the well location that is that you have right my action at all.  the West Virginia Code to plug and abandon a wall the location described on m mailed by registered	n on Form WW-6.  Its regarding the application which are seen, the undersigned well operator proposes well with the Chief of the Office of Oil are the attached Application and depicted or certified mail or delivered by hand the second secon	summarized in the instructions on the reverses sides to file or has filed this Notice and Application and Gas, West Virginia Department of Environment on the attached Form WW-6. Copies of this Notice
Take notice accompar	I its and the plugging work plat (surveyor's map) shown you received these document you are not required to take at cet hat under Chapter 22-6 of the sying documents for a permit to the well at the cation, and the plat have been reumstances) on or before the	c order; and wing the well location hats is that you have right hay action at all.  the West Virginia Code to plug and abandon a wall he location described on he mailed by registered day of mailing or delive	n on Form WW-6.  Its regarding the application which are see, the undersigned well operator proposes well with the Chief of the Office of Oil are the attached Application and depicted or certified mail or delivered by hand try to the Chief.	summarized in the instructions on the reverses sides to file or has filed this Notice and Application and Gas, West Virginia Department of Environment on the attached Form WW-6. Copies of this Notice to the person(s) named above (or by publication
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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.

47035014578

Well Number: DEK61 API: 47-035-01457

EE	U.S. Postal Service™ CERTIFIED MAIL® REC Domestic Mail Only	EIPT
-	For delivery information, visit our website	at www.usps.com®.
_	LANGS IN TOTAL	. U5 =
0 0002 385	Certified Mail Fee \$3.55  Extra Services & Fees (check box, add fee as inhodinate)  Heturn Receipt (nardcopy)  Return Receipt (electronic)  Certified Mail Restricted Delivery  Adult Signature Required  Adult Signature Restricted Delivery  Postage	0523 03 Postmark Here
1,450	\$ \$1.40 Total Postage and Fees \$ \$7.80	12/21/2020 DEK 61
7017		rlue 241
	PS Form 3800, April 2015 PSN 7530-02-000-9047	See Reverse for Instructions

Office of Oil and Gas

DEC 2 22020

WV Department of Environmental Protection

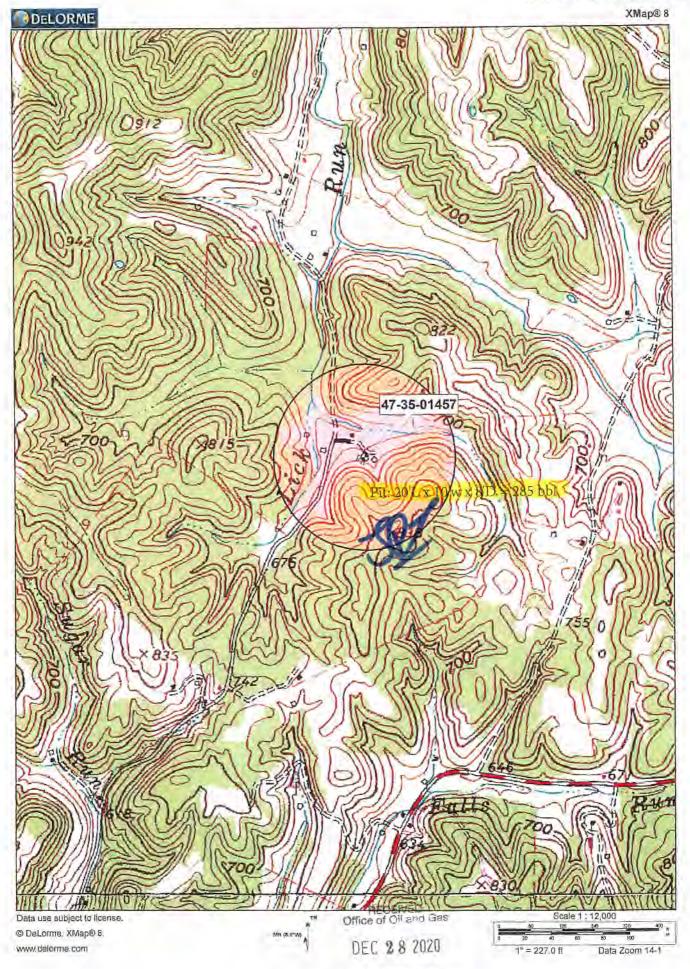
API Number 47 - 470 3,50 14 5 7 P Operator's Well No. Kay John P DEKLE!

# 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) Lower Mill Creek	Quadrangle Ravenswood
Do you anticipate using more than 5,000 bbls of water to comple	ete the proposed well work? Yes No
Will a pit be used? Yes V No	
If so, please describe anticipated pit waste: Produced	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 Wastes:	
Land Application (if selected provide	e a completed form WW-9-GPP)
Underground Injection (UIC Permit Reuse (at API Number	Number 200 190400
Off Site Disposal (Supply form WW Other (Explain_	7-9 for disposal location)
AVA	
Will closed loop systembe used? If so, describe: N/A	NA FRESH WATER GEL
Drilling medium anticipated for this well (vertical and horizontal	al)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc. N/	RECEIVED
Additives to be used in drilling medium? N/A	Office of Oil and Gas
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. N/A DEC 2.8 2020
-If left in pit and plan to solidify what medium will be	used? (cement, lime, sawdust) N/A WV Department of
-Landfill or offsite name/permit number? N/A	WV Department of Environmental Protection
Permittee shall provide written notice to the Office of Oil and O West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	Pas of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Cas of the West Vir provisions of the permit are enforceable by law. Violations of a or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that based on	conditions of the GENERAL WATER POLLUTION PERMIT issued ginia Department of Environmental Protection. I understand that the any term or condition of the general permit and/or other applicable law examined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for obtaining te, and complete. I am aware that there are significant penalties for r imprisonment.  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Phyllis A: Copley 144 WILLIAM COPLEY 145 WILLIAM COPLEY 14
My commission expires September 16	oply Notary Public

Proposed Revegetation Treatment: Acres Disturbed		Preveg etation pH	
Lime 3 Tons/acre or to con	prrect to pH 6.5		
Fertilizer type 10-20-20 or equivalent			
Fertilizer amount	lbs/acre		
Mulch 2	Tons/acre		
	Seed Mixtures		
Temporary		Perman	nent
Seed Type lbs/acre	Ď	Seed Type	lbs/acre
Red Fescue 40		Fescue 15	
Alsike 5	Alsi	ke Clover 5	
Annual Rye 15			
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, (L, W), and area in acres, of the land application are	, provide water volum ea.	ess engineered plans include, include dimensions (L,	ding this info have been W, D) of the pit, and dimensions
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, (L, W), and area in acres, of the land application are	, provide water volum ea.	ess engineered plans include, include dimensions (L,	W, D) of the pit, and dimensions  RECEIVED  Office of Oil and Ga
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Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, (L, W), and area in acres, of the land application are Photocopied section of involved 7.5' topographic she Plan Approved by:  Comments:	, provide water volum ea. neet.	ess engineered plans include, include dimensions (L,	W, D) of the pit, and dimensions  RECEIVED  Office of Oil and Ga
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WV Department of Environmental Protection



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

# WELL LOCATION FORM: GPS

A. A. Carrier, C. C.	CATION FORMS	
API: 47-035-01457	WELL NO.: KA	AY JOHN P 61
FARM NAME: John P Ka	y (Lease)	
RESPONSIBLE PARTY NAME	. Nytis Exploration Co	mpany LLC
COUNTY: Jackson	DISTRICT: Uni	on
QUADRANGLE: Ravensw	/ood	
SURFACE OWNER: Joshua		
ROYALTY OWNER: DP BI	uegrass LLC	
UTM GPS NORTHING: 4,30	4,659	
UTM CPS EASTING. 430,35	30 GPS ELEVATI	ion: 675 (ft)
the following requirements:  1. Datum: NAD 1983, Zo height above mean sea  2. Accuracy to Datum – 3  3. Data Collection Metho	3.05 meters	
Real	-Time Differential	
Mapping Grade GPS X : P	ost Processed Differential X	
R	teal-Time Differential	
I the undersigned, hereby certify t	e topography map showing the we his data is correct to the best of my on required by law and the regulation d Gas.	knowledge and ons issued and
AA	Director Production	12/18/2020
Signatura	Title	Date

## 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, lon as decimal degrees) 500000, 4100000 (UTM as easting, northing) 1987654.32, 364123.45 (WV state plane as easting,

38.888055924,-81.803302619

Lat/Lon WGS 1984

Convert

## output coordinates

430330.97,4304659.92

UTM NAD83 Zone 17N

view on Google Maps

## options

display output as degrees/minutes/seconds

zoom to point

## history (copy/paste)

1,38.8880559,-81.8033026,LL WGS84(G1674),430330.97,4304659.92,UTM17N NAD83(2011)

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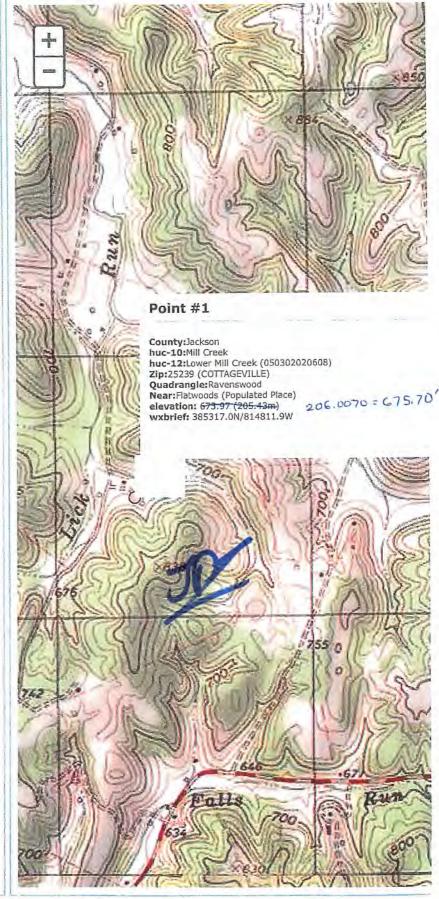
WV Department of Environmental Protection

### 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











Well Number: DEK &1 API: 47-035-01457P

11/10/2016

### PLUGGING PERMIT CHECKLIST

Plugging Permit
WW-4B
WW-4B signed by inspector
WW-4A
SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERITFIED MAIL
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
WW-9 GPP PAGE 1 and 2 if well 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 OPERATOR'S NAME
CHECK FOR \$100 IF PIT IS USED

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