



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

Monday, March 29, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

NYTIS EXPLORATION COMPANY LLC
PO BOX 8
RAVENSWOOD, WV 26164

Re: Permit approval for 1
47-035-01646-00-00

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: 1
Farm Name: GILPIN, O. C.
U.S. WELL NUMBER: 47-035-01646-00-00
Vertical Plugging
Date Issued: 3/29/2021

Promoting a healthy environment.

04/02/2021

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4703501646P

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.

04/02/2021

4703501646P

WW-4B
Rev. 2/01

1) Date December 18th, 2020
2) Operator's
Well No. PKE 775
3) API Well No. 47-035 - 01646

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 814' Watershed Left Fork Sandy Creek
District Ravenswood County Jackson Quadrangle Liverpool

6) Well Operator Nytis Exploration Company LLC 7) Designated Agent Jeff Mast
Address P.O. Box 6070 Address P.O. Box 6070
Charleston, WV 25362 Charleston, WV 25362

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Joe Taylor Name Diversified Production LLC (In-house Rig)
Address 1478 Claylick Road Address 1951 Pleasantview Ridge Road
Ripley, WV 25271 Ravenswood, WV 26164

10) Work Order: The work order for the manner of plugging this well is as follows:
See attached

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 12-28-20

04/02/2021

PLUGGING PROGNOSIS

API# 47-035-01646

West Virginia, Jackson County

Casing Schedule

10" csg @ 40' cemented w/ 2 sxs

8 5/8" csg @ 2,314' cemented w/ 350 sxs to surface

4 1/2" csg @ 5,208' cemented w/ 480 sxs to surface (Calc from 6.25" hole and 1.28 yield) – To be confirmed in field

Tubed to an unknown depth

TD @ 5,208'

Completion:

- Shale: 3,156' - 4,936' and 4,936' - 5,208'

Fresh Water: 104'

Salt Water: 1,875'

Gas Shows: None Reported

Oil Show: None Reported

Coal: None Reported

Elevation: 832'

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. Inspect tbg.
4. Check TD w/ wireline. Pull stretch and calculate 4 1/2" csg free point. Adjust csg cut depth accordingly.
5. TIH w/ tbg to 5,208'. Kill well as needed with 6% bentonite gel. Pump 272' C1A cement plug from **5,208' - 4,936' (Shale Completion)**. Tag cement and top off if needed.
6. TOOH w/ tbg to 4,936'. Pump 1,880' C1A cement plug from **4,936' - 3,056' (Shale Completion)**.
7. TOOH w/ tbg to 3,056'. Pump 6% bentonite gel from 3,056' - 2,364'.
8. 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.
9. TIH w/ tbg to 2,364'. Pump 100' C1A cement plug from **2,364' - 2,264' (8 5/8" csg st)**.
10. TOOH w/ tbg to 2,264'. Pump 6% bentonite gel from 2,264' - 1,875'.
11. TOOH w/ tbg to 1,875'. Pump 100' C1A cement plug from **1,875' - 1,775' (Salt Water Show)**.
12. TOOH w/ tbg to 1,775'. Pump 6% bentonite gel from 1,775' - 832'.
13. TOOH w/ tbg to 832'. Pump 100' C1A cement plug from **832' - 732' (Elevation)**.
14. TOOH w/ tbg to 194'. Pump 6% bentonite gel from 732' - 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 will be pulled!
Joe Taylor

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[Signature]
 12-28-20

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FORM IV-35
(REVERSE)

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

PERFORATIONS	75 Q FOAM VOLUME	SAND VOLUME	AVERAGE INJECTION RATE
5208-4936 (15)	38,000 gal	64,000#	39.5 BPM
4559-3156 (15)	38,000 gal	64,000#	40.00 BPM

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			0	18	
SAND			18	46	
SANDY SHALE			46	138	Fresh water 1" stream @ 104'
SAND			138	169	
SHALE			169	628	
SAND			628	632	
SHALE			632	680	
SAND			680	720	
SHALE			720	820	
SAND			820	825	
R. R.			825	855	
SHALE			855	960	
SAND			960	983	
SHALE			983	1,170	
SALT SANDS & SHALE			1,170	1,945	Salt water 1-1/2" stream @ 1,875'
BIG LIME			1,945	2,040	
SHALE			2,040	2,065	
BIG INJUN			2,065	2,110	
SHALE			2,110	2,480	
COFFEE SHALE			2,480	2,495	
BEREA			2,495	2,497	
DEVONIAN SHALE			2,497	TD	

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(Attach separate sheets as necessary)

DELTA DRILLING COMPANY
Well Operator
By: [Signature]
Date: 2/20/82

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

1) Date: 12/18/2020
2) Operator's Well Number
PKE 775

3) API Well No.: 47 - 035 - 01646

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

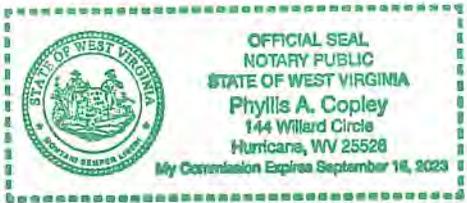
<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>David G & Gladys J Wade</u> Address <u>5620 Liverpool Road</u> <u>Leroy, WV 25252</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator</p> <p>Name _____ Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>No Declaration</u> Address _____</p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____ Address _____</p>
<p>6) Inspector</p> <p>Address <u>Joe Taylor</u> <u>1478 Claylick Road</u> <u>Ripley WV 25271</u></p> <p>Telephone <u>304-380-7469</u></p>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Nytis Exploration Company LLC
By: Jeff Mast
Its: Director Production
Address P.O. Box 6070
Charleston, WV 25362
Telephone 304-543-6988

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Subscribed and sworn before me this 21st day of December 2020
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2023

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.

47-035-01646P
Well: PKE775

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7017 1450 0002 3854 0979

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com

Le Roy, WV 25252

OFFICIAL USE

Certified Mail Fee	\$3.55
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.40
Total Postage and Fees	\$7.80

Postmark Here
0523 03
12/21/2020
PKE 775

Sent To
David & Gladys Wade
Street and Apt. No., or PO Box No.
5620 Liverpool Road
City, State, ZIP+4®
Le Roy WV 25252

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
PKE 775
David & Gladys Wade
5620 Liverpool Road
Le Roy, WV 25252

9590 9403 0267 5155 0068 22

2. Article Number (Transfer from service label)
7017 1450 0002 3854 0979

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X BV 091 Agent
 Addressee

B. Received by (Printed Name)
C. Date of Delivery
12/22

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

04/02/2021

SURFACE OWNER WAIVER

1/13/21 to DE-P

Operator's Well
Number

PKE 775 (47-035-01646) P

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC

FOR EXECUTION BY A CORPORATION,

David L. Wash Date 1-14-21
Signature

Name _____
By _____
Its _____ Date _____

Signature _____ Date _____

04/02/2021

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Nylis 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 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. JAWM*

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 a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 2D0190460)
- 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 horizontal)? 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, removed 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? N/A

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Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Jeff Mast

Company Official Title Director Production



Subscribed and sworn before me this 21st day of December, 2020

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH _____

Lime 3 Tons/acre or to correct 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

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.

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Plan Approved by: _____

Comments: Sediment control in place at All Time.

Title: COG Inspector

Date: 12-28-20

Field Reviewed? () Yes () No

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, northing)

38.891740967, -81.567537314

Lat/Lon WGS 1984

Convert

output coordinates

450781.29,4304915.28

UTM NAD83 Zone 17N

view on Google Maps

options

- display output as degrees/minutes/seconds
- zoom to point

history (copy/paste)

1,38.8917410,-81.5675373,LL
 WGS84(G1674),450781.29,4304915.28,UTM17N
 NAD83(2011)

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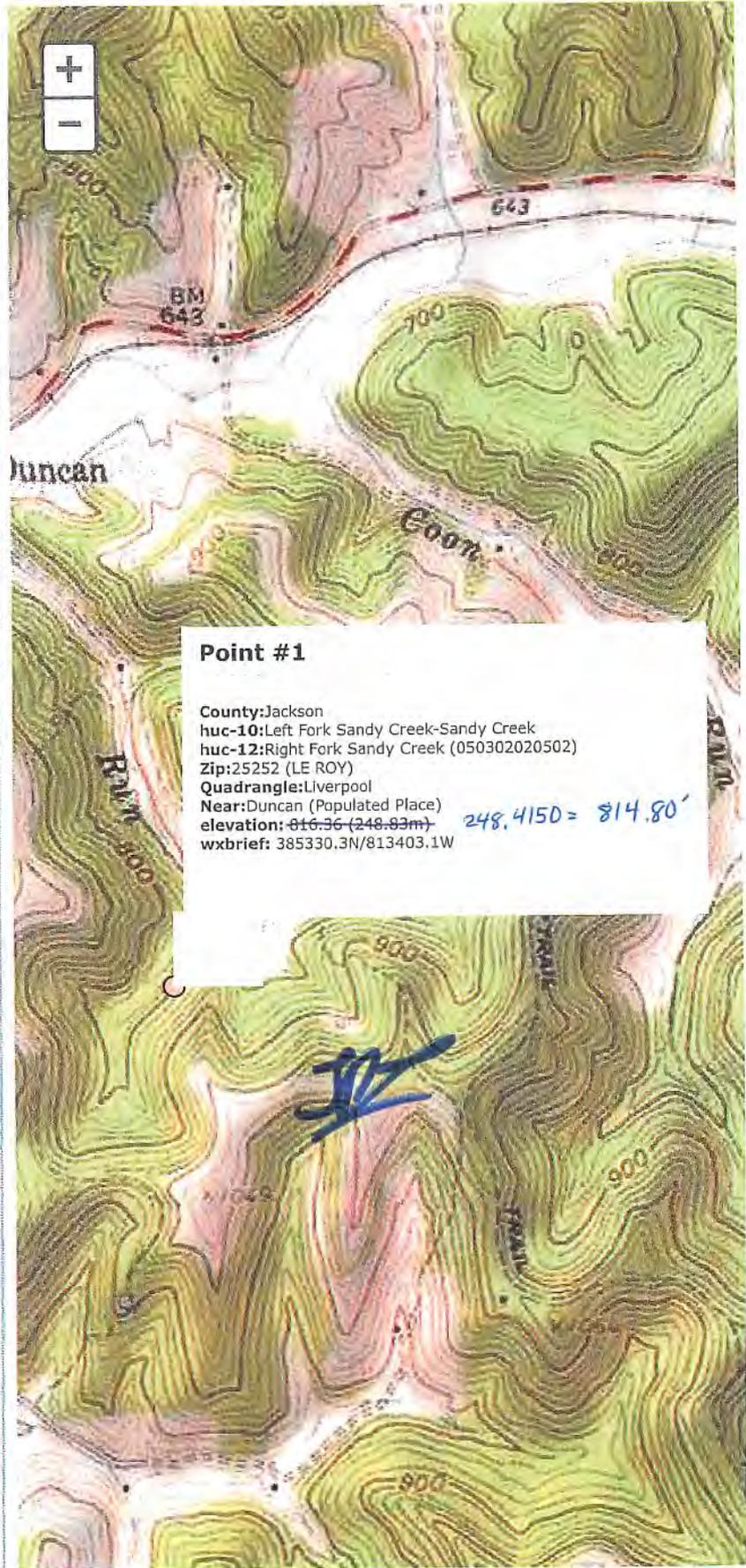
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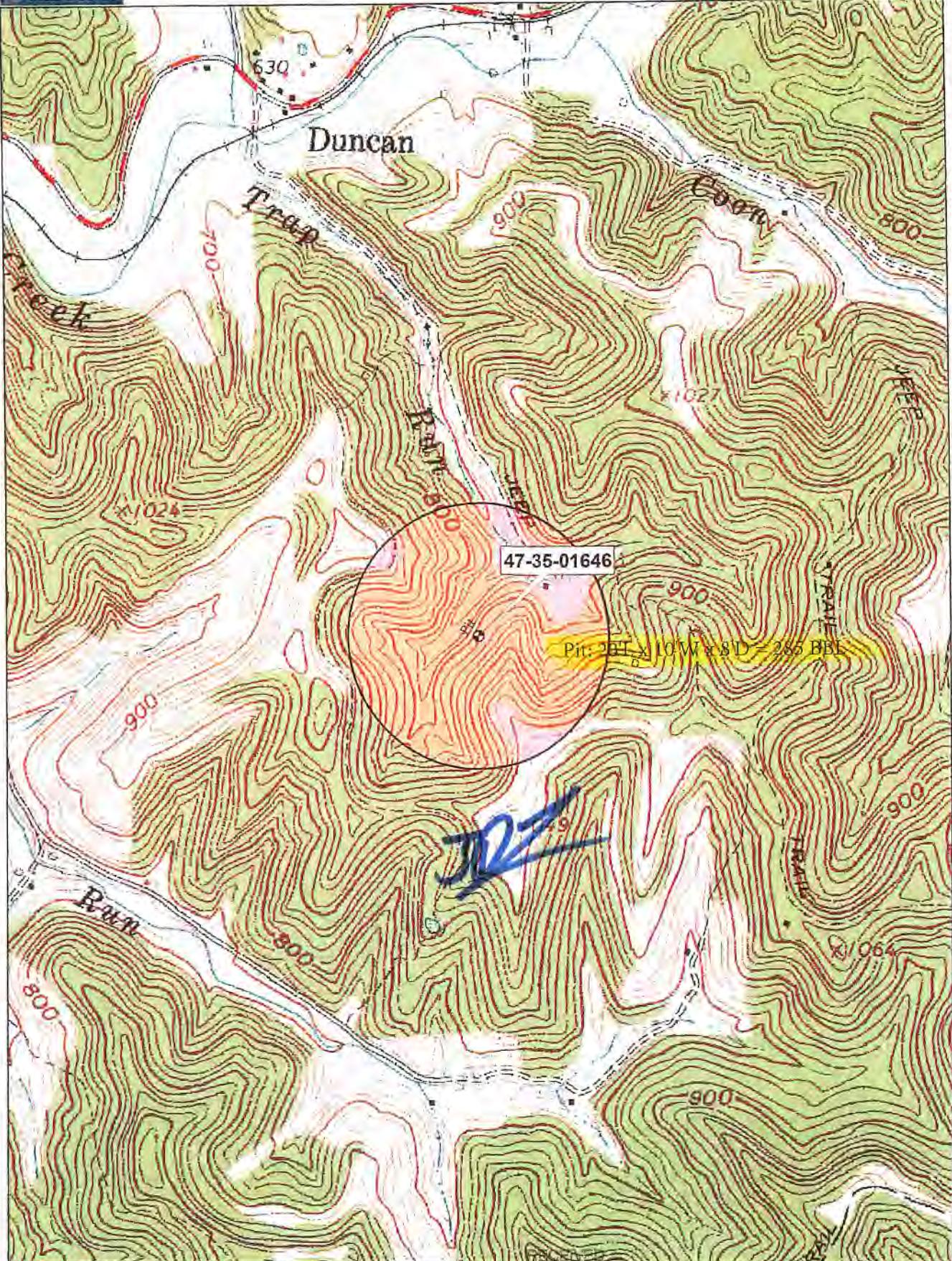
notes about datum conversions

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



clear markers street map image topo



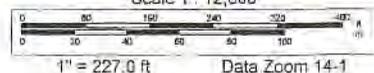
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 www.delorme.com



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Scale 1 : 12,000

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