

#### 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 15, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

NYTIS EXPLORATION COMPANY LLC PO BOX 8 RAVENSWOOD, WV 26164

Re:

Permit approval for 1 47-035-01182-00-00

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: HUTCHINSON, H. C.

U.S. WELL NUMBER: 47-035-01182-00-00

Vertical Plugging
Date Issued: 3/15/2021



## 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.

### 

3) API Well No. 47-035 -01182

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

41	Well Type: Oil/ Gas ×/ Liquid	
	(If "Gas, Production X or Unc	lerground storage) Deep/ Shallowx
5)	Location: Elevation 630'	Watershed Sandy Creek
	District Ravenswood	County Jackson Quadrangle Liverpool
61	Well Operator Nytis Exploration Company LLC	7) Designated Agent Jeff Mast
0,1	Address P.O. Box 6070	Address P.O. Box 6070
	Charleston, WV 25362	Charleston, WV 25362
8)	Oil and Gas Inspector to be notified Name Joe Taylor	9) Plugging Contractor  Name Diversified Production LLC (In-house Rig
	Address 1478 Claylick Road	Address 1951 Pleasantview Ridge Road
	Ripley, WV 25271	
		Ravenswood, WV 26164
	Work Order: The work order for the mann	
	Work Order: The work order for the mann	
	Work Order: The work order for the mann	
	Work Order: The work order for the mann	ner of plugging this well is as follows:

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

Work order approved by inspector

Date

12-28-2020

#### PLUGGING PROGNOSIS

API# 47-035-01182 West Virginia, Jackson County 38.9004948382111, -81.5788356026096 Nearest ER: Jackson General Hospital 122 Pinnell St. Ripley, WV 25271

#### Casing Schedule

13 3/8" csg @ 30' 8 5/8" csg @ 566' CTS 5 ½" csg @ 2345' cemented w/ 250 sks est TOC @ 510' 2 3/8" tbg @ est 2300' with sucker rods TD 2365'

Completion: Berea (2289'- 2291')

Fresh Water: None Reported

Gas Shows: Berea 2289'-2291', Shale 2365'

Oil Show: Berea 2289' Coal: 810', 946' Elevation: 629'

- 1. Notify Inspector Joe Taylor @ 304-380-7469, 48 hours prior to commencing operations.
- Check and record pressures on csg/tbg.
- 3. TOOH LD rods and tbg. Inspect tbg.
- 4. Check TD w/ wireline.

All Free Pipe is P.

- 5. TIH w/ tbg to 2291'. Kill well as needed with 6% bentonite gel. Pump 102' C1A cement plug from 2291'-2189' (Shale and Berea gas/oil show). Tag TOC. Top off as needed.
- 6. TOOH w/ tbg to 2189'. Pump 6% bentonite gel from 2189'-996'.
- 7. TOOH w/ tbg to 996'. Pump 236' C1A cement plug from 996'-760' (Coal, Oil Show).
- 8. TOOH w/ tbg to 760'. Pump 6% bentonite gel from 760'-629'.
- 9. TOOH w/ tbg to 629'. Pump 100' C1A cement plug from 629'-529' (Elevation).
- 10. TOOH w/ tbg to 529'. Pump 6% bentonite gel from 529'-100'. TOOH LD tbg.
- 11. Free point 5 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.
- 12. TIH w/ tbg to 100'. Pump 100' C1A cement plug from 100'-0' (Surface). TOOH LD tbg.
- 13. Erect monument with API#, date plugged, and company name.

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

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Static rock pressure 600 psig(surface measurement) after

(If applicable due to multiple completion--)

Second producing formation

JAC!
KSON
18

hours shut in

Pay zone depth

4-28-83 Berea Sandstone fracture: water frac. Breakdown w/fluid at 2200 psig. Pumped 15,000# of 80/100 and 55,000# of 20/40 sand at 6 BPM & 18000 SCF/M with 1600-3200 psig. Used 530 bb1s of sand laden and 816 bb1s total fluid. Used 239,000 SCF of nitrogen. ISIP = 3200 psig.

4703501182

### WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Same as previously reported			
		·	
			· RECEIVED Office of Oil and Gas
		•	DEC 2 8 2020  WW Department of Environmental Protection
	·		

(Attach separate sheets as necessary)

KAIS	ER EXPLORAT	ION AND	MINING	COMPANY		
V	ell Operat	or				
By:	Eath	a.,	7-		•	03/19/2021
_ —	<del></del>					

Quadrangle Ripley TAC-1182

**WELL RECORD** 

Storage

47 6,3,50 Lui Rr2 Hole

Capie 100is L.

Permit No. JAC-1182	11200112		Oilor	Gas Well Out Kin	D)
Company Pennzoil United, Inc. Box 1588, Parkersburg, West Virginia	Casing and Tubing	Used in Drilling	Left in Well	Packers	
Farm H. C. Hutchinson Acres 350	•			Kind of Packer.	
Location (waters)  Well No. 1 Elev. 628.99*	13-3/8"	29 <b>.75</b> 566'		Guide Shoe	
District Ravenswood County Jackson  The surface of tract is owned in fee by	81/4			F.C.	
Mineral rights are owned by H. C. Hutchinson, et al Route 2 Address Sandyville, W. Va.	5 3/16		***************************************		
Drilling commenced November 29, 1969 Drilling completed December 14, 1969	3			Perf. top	
Date Shot	Liners Used			1	
Open Flow         /10ths Water in	ch CASING CEM	cementing record	i. / <mark>siz</mark> e 566	No. Ft. 12/2/	69 Date
Rock Pressure lbs. https://doi.org/10.1001/10.	rs. Name of Services. COAL WAS F	ce CoENCOUNTEREI	AT 810'	FEET 48	_INCHES
WELL ACIDIZED (DETAILS)	FE	ETING	CHES	FEET	_INCHES
WELL FRACTURED (DETAILS).					
RESULT AFTER TREATMENT (Initial open Flow or bbls.)	DRY HOLE	PLUGGED AN	D ABANDOI	NED	
ROCK PRESSURE AFTER TREATMENT.  Fresh Water Feet Froducing Sand	Salt Water		Feet		
Producing Sand		Oll Con			

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
ed Clay			0	10			
and			10	15		RE RE	CEIVED Oil and Gas
and & Shale			15	30		Office of	Oil and Gas
nale & R.Rock			30	40		DEC	2 8 2020
and & Shale			40	55		DEC	2 0 2020
ed Rock			55	66		W D	partment of
and		• ,	66	100		Environm	partment of ental Protection
nale			100	160			
and			160	166	590.4	. #37 · 1272 137=	
and & Shale			166	185	The state of the s	KGLII W F	111)
nale			185	190	الله الله الله الله الله الله الله الله		·W)
and			190	/211	, D	C 24 1969	
.Rock & Shale			211	218	U	TO 2 = 1303	
nale & Sand			218	228		CACDUGGG	Į
Rock & Shale			228	235		GAS DIVISIO	<del> </del>
nale			235	240	ال د مساد الحساد	OF WITH	<b>45</b>
and & Shale		•	240	246			
and			246	270		-	
ed Rock			270	279			•
and & Shale	ļ		279	285			•
and	}		285	290	•		
and & Shale			290	300			
.Rock & Shale			300	335		03/	19/2021
and & Shale			335	340			

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al  ale  d Rock  nd & Shale  d Rock  nd & Shale  nd  ale  sale  sale  sale  d Rock  ale  ale  nd  ale  d Rock  ale  Sand  ale  d Rock  ale  Shale  ind  sale  d Rock  ale  Shale  ind  ale  d Rock  ale  Shale  ind  sale  tale  tale		951 970 975 1000 1005 1060 1074 1105 1135 1164 1171 1178 1280 1330 1396 1400 1402 1421 1438 1443 1455 1465 1490 1501 1549 1588 1743 1836	970 975 1000 1005 1060 1074 1105 1135 1164 1171 1178 1280 1330 1396 1400 1402 1421 1438 1443 1455 1465 1465 1490 1501 1549 1588 1743 1836 1863	DEC	ECEIVED of Oil and Gas  2 8 2020  Expartment of ental Protection
g Injun Hale Prea Hale Total Depth	·	1863 1920 2288 2292	1920 2288 2292 2346 2346*	03/	9/2021

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11	Date:	12/18/2020	A	17	n	2	5	0	1	1	0	6)	P
-23	Date.	2 37/ 11 Manaba	190	- 8	10	-	0	4	- Line	1	U	FU	

2) Operator's Well Number

Kem 350

3) API Well No.: 47 -

035

01182

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

4)	Surface Ow (a) Name	ner(s) to be served:  Robert Walsh Ghastin (Ghastin Trust)	5) (a) Coal Operator Name	
	Address	2570 Torrance Blvd	Address	
		Torrance, California 90503		(A) III Devlemention
	(b) Name Address		(b) Coal Owr Name	ner(s) with Declaration  No Declaration
	11441000		Address	
	(c) Name Address		Name Address	
-			(a) Coal Lass	see with Declaration
6)	Inspector Address	Joe Taylor 1478 Claylick Road	Name	See With Decidiance
		Ripley WV 25271	Address	
	Telephone	304-380-7469		

(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.

	000000000000000000000000000000000000000
W VEST	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Phyllis A. Copley 144 Willard Circle Hurticane, WV 25528 orimission Expires September 16, 2023

Well Operator	Nytis Exploration Company LLC	
By:	Jeff Mast	RECEIVED Office of Oil and Gas
Its:	Director Production	o, or and das
Address	P.O. Box 6070	DEC 2.8 2020
	Charleston, WV 25362	
Telephone	304-543-6988	WV Department of

Subscribed and sworn be	fore me this 215t	day of	Jecembe	1, 2020	
	Phyllis a. C	oply		Notary Public	
My Commission Expires	0	Septemb	n 16,202	3	_

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.

Well Number: KEM 350 API: 47-035-01182

4703501182°

P-H	U.S. Postal Service™ CERTIFIED MAIL® REC	EIPT
20	For delivery information, visit our website	e at www.usps.com®.
+	Torrance, CA 90503	IISE
50 0002 3854	Certified Mail Fee \$3.55  Extra Services & Fees (check box, add fee \$3.000 (inste) (in	0523 03 Postmark Here
7 1450	Total Postage and Fees \$7.80	12/21/2020 KEM 350
7017	Sent To Robert Walsh 6 hastin Street and Apt. No., or PO BOX NO. 25.70 To rrance Blud City, State, ZIP+10 rrance Blud	
	TOTTONCE CA 90503 PS Form 3800, April 2015 PSN 7530-02-000-9047	See Reverse for Instructions

RECEIVED Office of Oil and Gas DEC 2 22020 WV Department of Environmental Protection

API Number 47 -	47	0	350	1	1	8	2	P
Operator's Well No	. Ken	13	50					

# 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 49447356	3
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	
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 systembe 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	RECEIVED 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, removed offsite, etc. N/A	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	WV Department of Environmental Protection
-Landfill or offsite name/permit number? N/A	and the same of th
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated within solid waste facility. The notice shall be provided within 24 hours of rejection and the perwhere it was properly disposed.	ciated waste rejected at any rmittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Proprovisions of the permit are enforceable by law. Violations of any term or condition of the general performentation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the application form and all attachments thereto and that, based on my inquiry of those individuals immediate information, I believe that the information is true, accurate, and complete. I am aware that the submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title Director Production	mit and/orother applicable law information submitted on this ately responsible for o btaining
Subscribed and sworn before me this 21st day of Occumber, 20 20 Notary Pub.	AY
My commission expires Syptember 16, 2023	03/19/2021

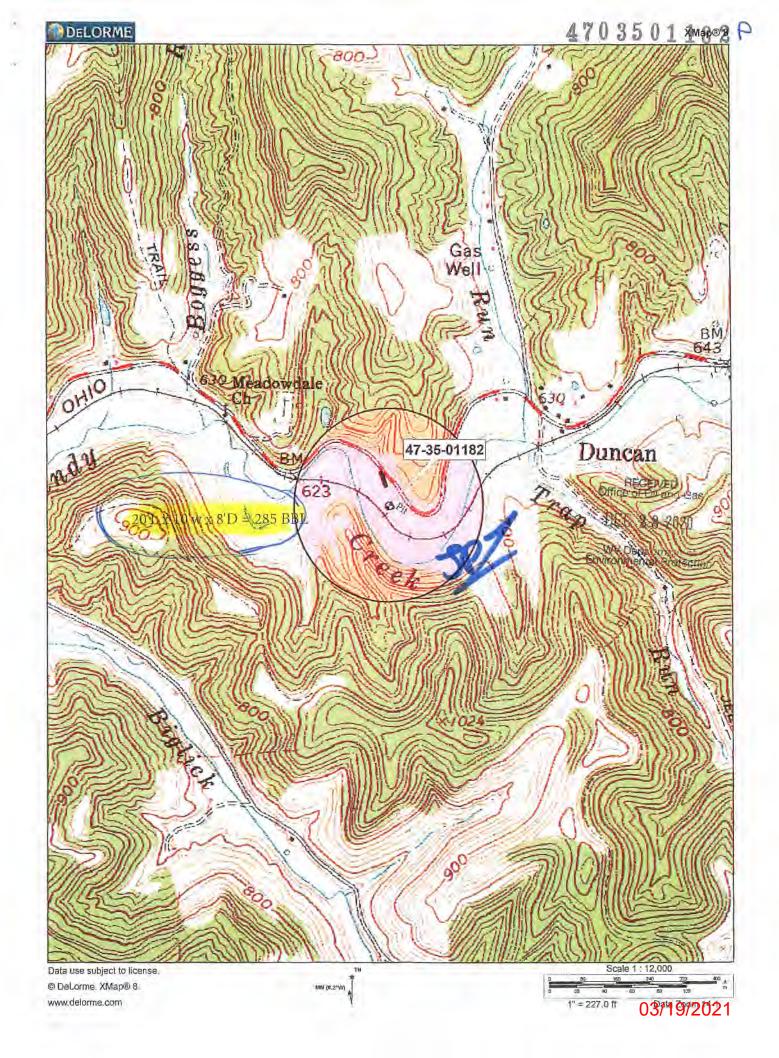
Proposed Revegetation Treatment: A			Ι
Lime 3 To		4 0.3	
Fertilizer type 10-20-20 o	r equivalent		
Fertilizer amount		bs/acre	
Mulch 2	Tons	/acre	
	Sec	ed Mixtures	
Temporary		Perma	nent
Seed Type	bs/acre	Seed Type	lbs/acre
Red Fescue 40		Red Fescue 15	
Alsike 5		Alsike Clover 5	
Annual Rye 15			
provided). If water from the pit will (L, W), and area in acres, of the land	be land applied, provide vapplication area.	cation (unless engineered plans include water volume, include dimensions (L,	ding this info have been W, D) of the pit, and dimension
Maps(s) of road, location, pit and proportion of the pit will be provided). If water from the pit will L, W), and area in acres, of the land Photocopied section of involved 7.5'  Plan Approved by:	be land applied, provide vapplication area.  topographic sheet.	cation (unless engineered plans include water volume, include dimensions (L,	ding this info have been W, D) of the pit, and dimension
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# West Virginia Department of Environmental Protection Office of Oil and Gas

# WELL LOCATION FORM: GPS

API: 47-035-01182	WELL N	No.: Kem 350
FARM NAME: H.C. Hutc		
RESPONSIBLE PARTY NAMI	E: Nytis Exploration	n Company LLC
COUNTY: Jackson	DISTRICT	Ravenswood
QUADRANGLE: Liverpoo		
SURFACE OWNER: Robert	Walsh Ghastin (Gh	astin Family Trust)
ROYALTY OWNER: DP B		
UTM GPS NORTHING: 4,30		1
UTM GPS EASTING: 449,7		EVATION: 630 (ft)
there well The Office of Oil and	Gos will not accent GDS cov	signed API number on the
above well. The Office of Oil and the following requirements:  1. Datum: NAD 1983, Zo height above mean sea 2. Accuracy to Datum –	one: 17 North, Coordinate Una level (MSL) – meters. 3.05 meters	ordinates that do not meet nits: meters, Altitude:
above well. The Office of Oil and the following requirements:  1. Datum: NAD 1983, Zo height above mean sea	one: 17 North, Coordinate Una level (MSL) – meters. 3.05 meters	nits: meters, Altitude:  RECEIVED Office of Oil and Gas
above well. The Office of Oil and the following requirements:  1. Datum: NAD 1983, Zo height above mean sea 2. Accuracy to Datum – 3 Data Collection Metho Survey grade GPS: Post Rea	one: 17 North, Coordinate Una level (MSL) – meters. 3.05 meters od: t Processed Differential	nits: meters, Altitude:  RECEIVED Office of Oil and Gas  DEC 2 2020
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above well. The Office of Oil and the following requirements:  1. Datum: NAD 1983, Zo height above mean sea 2. Accuracy to Datum — 3. Data Collection Method Survey grade GPS: Post Rea Mapping Grade GPS: Post F.  4. Letter size copy of the I the undersigned, hereby certify to belief and shows all the information of the company of the size copy of the	one: 17 North, Coordinate Una level (MSL) – meters. 3.05 meters od: Processed Differential Ost Processed Differential Real-Time Differential Real-Time Differential topography map showing this data is correct to the best ion required by law and the research	RECEIVED Office of Oil and Gas  DEC 2 2 2020  WV Department of Environmental Protection  t of my knowledge and egulations issued and



### input coordinates

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

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

38.900454565,-81.579107121

Lat/Lon WGS 1984



Convert

## output coordinates

449784.04,4305888.53

UTM NAD83 Zone 17N



view on Google Maps

### options

display output as degrees/minutes/seconds



### history (copy/paste)

1,38.9004546,-81.5791071,LL WGS84(G1674),449784.04,4305888.53,UTM17N NAD83(2011)

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DEC 28 2020

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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

