

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-051-02021 County Marshall District Meade  
Quad Glen Easton 7.5' Pad Name Ten High Field/Pool Name \_\_\_\_\_  
Farm name Lawrence & Shirley Conkle, ests. Well Number Ten High 1N-20HU  
Operator (as registered with the OOG) Tug Hill Operating LLC  
Address 380 Southpointe Blvd. St. 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,406,354.31 Easting 527,318.88  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1310' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
\_\_\_\_\_  
\_\_\_\_\_

Date permit issued 7/17/2018 Date drilling commenced 7/25/2018 Date drilling ceased 7/25/2018  
Date completion activities began \_\_\_\_\_ Date completion activities ceased \_\_\_\_\_  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 70' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N  
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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**APPROVED**

Reviewed by:  
10/11/2024  
*Shirley Conkle*  
10/4/2024

API 47-051 - 02021 Farm name Lawrence & Shirley Conkle Well number Ten High 1N-20HU

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36"	30"	120'	NEW	94.5#	N/A	Y
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	A	218 (CALC)	15.6	1.19	259	0	8
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 120' Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated SAND/SHALE Plug back to (ft) \_\_\_\_\_  
 Plug back procedure N/A

Kick off depth (ft) N/A

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional  Sidewall  Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING  
CONDUCTOR - NONE

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_  
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WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47-051 - 02021 Farm name Lawrence & Shirley Conkle Well number Ten High 1N-20HU

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)

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Please insert additional pages as applicable.

API 47- 051 - 02021 Farm name Lawrence & Shirley Conkle, # Well number Ten High 1N-20HU

PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd  
GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

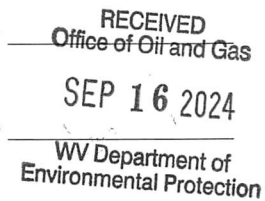
Please insert additional pages as applicable.

Drilling Contractor \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_



Please insert additional pages as applicable.

Completed by Douglas L. DeMartino Telephone 412-874-7325  
Signature [Signature] Title General Counsel Date May 20, 2024

Well # TEN HIGH 1N-20HU (L027324) Final Formations API# 47-051-02021				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	120	120

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10/11/2024

# TEN HIGH 1N-20HU UTICA UNIT - 621.36± ACRES TUG HILL OPERATING, LLC

TOP HOLE LATITUDE: 39°50'00"  
(TH) 3,986'

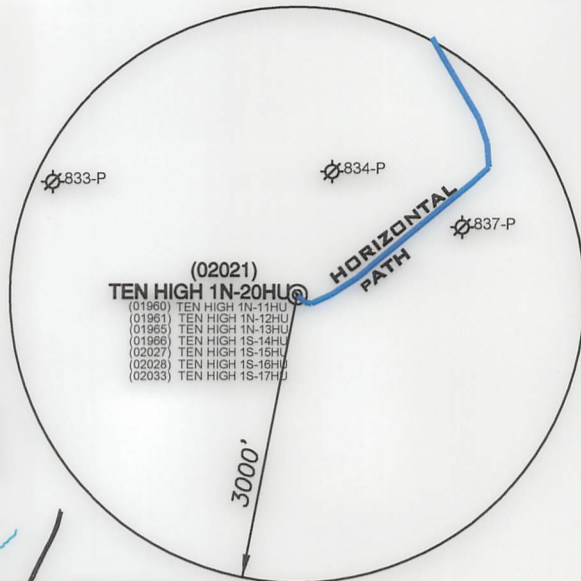
(TH) TOP HOLE LONGITUDE: 80°40'00"  
(TH) 9,694'

### NOTES

1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN JUNE, 2024
4. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
5. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
6. BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147
7. WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'

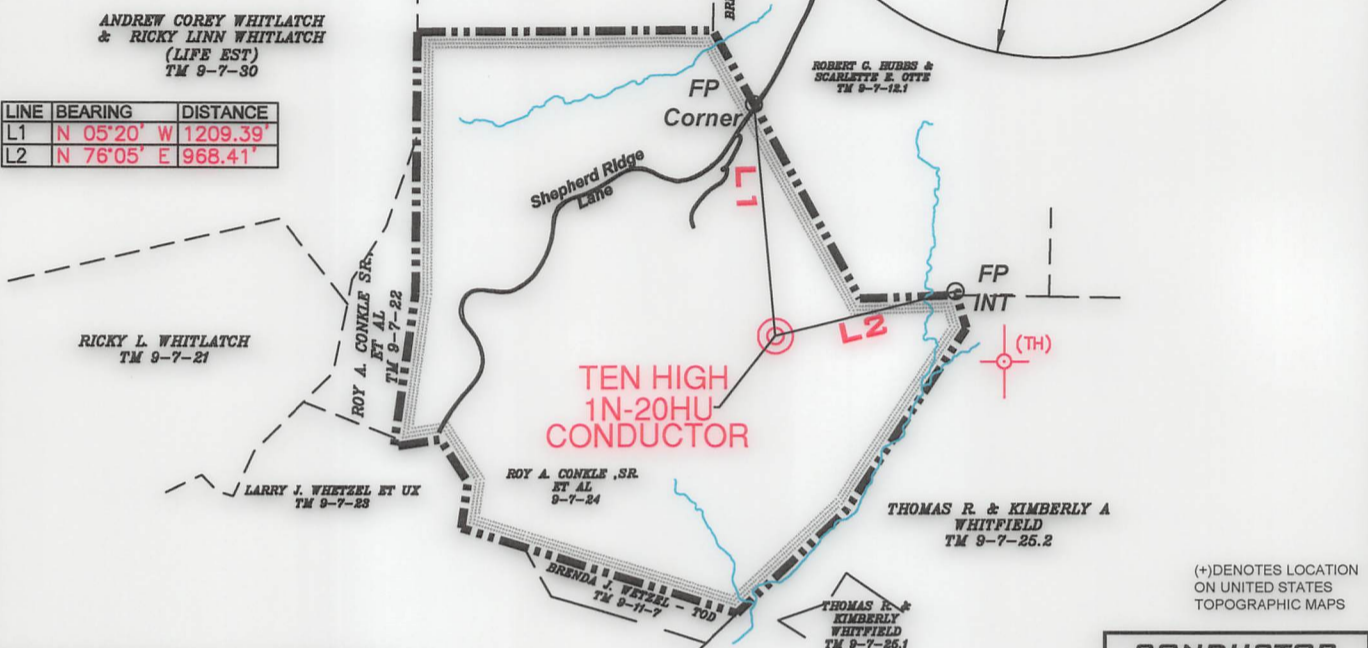
### LEGEND

- LEASED TRACTS
- - - SURFACE TRACTS
- ▭ UNIT BOUNDARY
- PERMITTED LEG
- ASDRILLED LEG

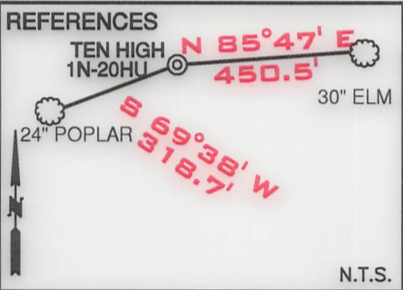


GRID NORTH

LINE	BEARING	DISTANCE
L1	N 05°20' W	1209.39'
L2	N 76°05' E	968.41'



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS



### DETAIL SKETCH "A"

N.T.S.

(01976) Ten High 1S-9HM	(01974) Ten High 1S-10HM	(01974) Ten High 1S-7HM	(01974) Ten High 1S-5HM
(01975) Ten High 1S-9HM	(01975) Ten High 1S-8HM	(01975) Ten High 1S-6HM	(01975) Ten High 1S-4HM
(01965) Ten High 1N-13HU	(01965) Ten High 1N-14HU	(01965) Ten High 1N-15HU	(01965) Ten High 1N-16HU
(02023) Ten High 1S-7HU	(02023) Ten High 1S-8HU	(02023) Ten High 1S-9HU	(02023) Ten High 1S-10HU
(02027) Ten High 1S-16HU	(02027) Ten High 1S-17HU	(02027) Ten High 1S-18HU	(02027) Ten High 1S-19HU
(01966) Ten High 1S-14HU	(01966) Ten High 1S-15HU	(01966) Ten High 1S-16HU	(01966) Ten High 1S-17HU
(01945) Ten High 1N-4HM	(01945) Ten High 1N-5HM	(01945) Ten High 1N-6HM	(01945) Ten High 1N-7HM
(02019) Ten High 1N-18HM	(02019) Ten High 1N-19HM	(02019) Ten High 1N-20HM	(02019) Ten High 1N-21HM
(02017) Ten High 1N-19HM			

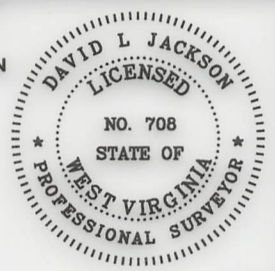
**CONDUCTOR**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,406,354.31  
E) 527,318.88

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,406,354.29  
E) 527,318.29

FILE NUMBER \_\_\_\_\_  
DRAWING NUMBER: TEN HIGH\_1N-20HU  
SCALE: 1" = 1000'  
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING, GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 708  
*David L Jackson*



JACKSON SURVEYING INC.  
P.O. Box 1460  
Clarksburg, WV 26302  
304-623-5851

WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET, SE  
CHARLESTON, WV 25304

DATE: SEPTEMBER 10, 2024  
OPERATORS WELL NO. TEN HIGH 1N-20HU  
API WELL NO. 47-051-02021  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
LOCATION ELEVATION 1,310.8' WATERSHED (HUC 10) MIDDLE BOWMAN RUN OF FISH CREEK (HUC-10)  
DISTRICT MEADE COUNTY MARSHALL

SURFACE OWNER ROY A. CONKLE, SR. ET AL ACREAGE 139.79  
OIL & GAS ROYALTY OWNER LARRY LEE CONKLE ET AL LEASE 10/11/2024

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_  
PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED  
PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH 120'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT