

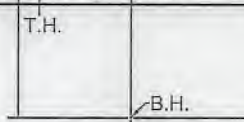
5,150' T.H. 3,978' B.H.

**HUNTER PETHTEL LEASE
VAN WINKLE S 13HM WELL
TUG HILL OPERATING**

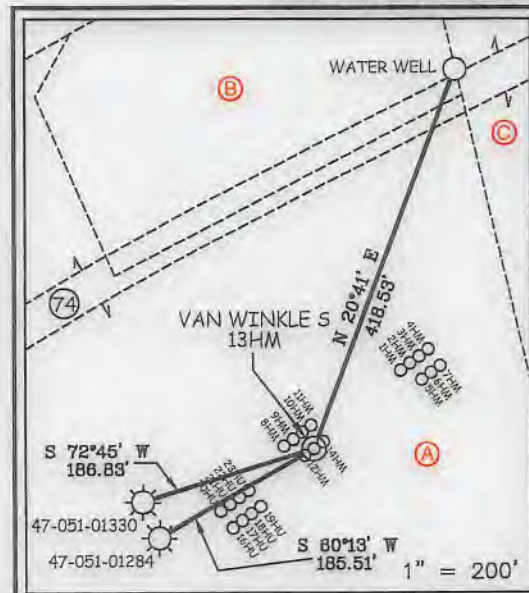
T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°47'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 469,187.15	E. 1,623,773.44
NAD'83 GEO.	LAT-(N) 39.781696	LONG-(W) 80.726659
NAD'83 UTM (M)	N. 4,403,563.84	E. 523,406.43
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 469,115.4	E. 1,624,136.2
NAD'83 GEO.	LAT-(N) 39.781513	LONG-(W) 80.725365
NAD'83 UTM (M)	N. 4,403,543.8	E. 523,517.3
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 467,683.6	E. 1,624,925.4
NAD'83 GEO.	LAT-(N) 39.777612	LONG-(W) 80.722488
NAD'83 UTM (M)	N. 4,403,111.6	E. 523,765.0

T.H. LONGITUDE 80°42'30"
B.H. LONGITUDE 80°42'30"
3,632' T.H.
5,120' B.H.



REFERENCES



NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
3. BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296

sllswv.com

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. 849

C. Victor Moyers

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JANUARY 19, 20 21

REVISED

OPERATORS WELL NO. VAN WINKLE S 13HM

API WELL NO. 47 - 051 - 02362
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P13HM.dwg
VAN WINKLE S 13HM-REV2
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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



WELL TYPE:	OIL	GAS <input checked="" type="checkbox"/>	LIQUID INJECTION	WASTE DISPOSAL	IF "GAS" PRODUCTION <input checked="" type="checkbox"/>	STORAGE	DEEP	SHALLOW <input checked="" type="checkbox"/>			
LOCATION:	GROUND: 756.00'		ELEVATION PROPOSED: 753.50'		WATERSHED FISH CREEK (HUC 10)						
DISTRICT	MEADE		COUNTY	MARSHALL		QUADRANGLE	GLEN EASTON 7.5'				
SURFACE OWNER	XCL MIDSTREAM OPERATING, LLC		ACREAGE	190.12 ±							
ROYALTY OWNER	DENNIS HUNTER, ET AL - SEE WW-6A1		ACREAGE	03/12/2021							
PROPOSED WORK:	DRILL <input checked="" type="checkbox"/>		CONVERT	DRILL DEEPER	REDRILL	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION	PERFORATE NEW FORMATION	PLUG AND ABANDON	CLEAN OUT AND REPLUG	OTHER
PHYSICAL CHANGE IN WELL (SPECIFY)			TARGET FORMATION	MARCELLUS		ESTIMATED DEPTH	TVD: 6,297' / TMD: 8,210'				

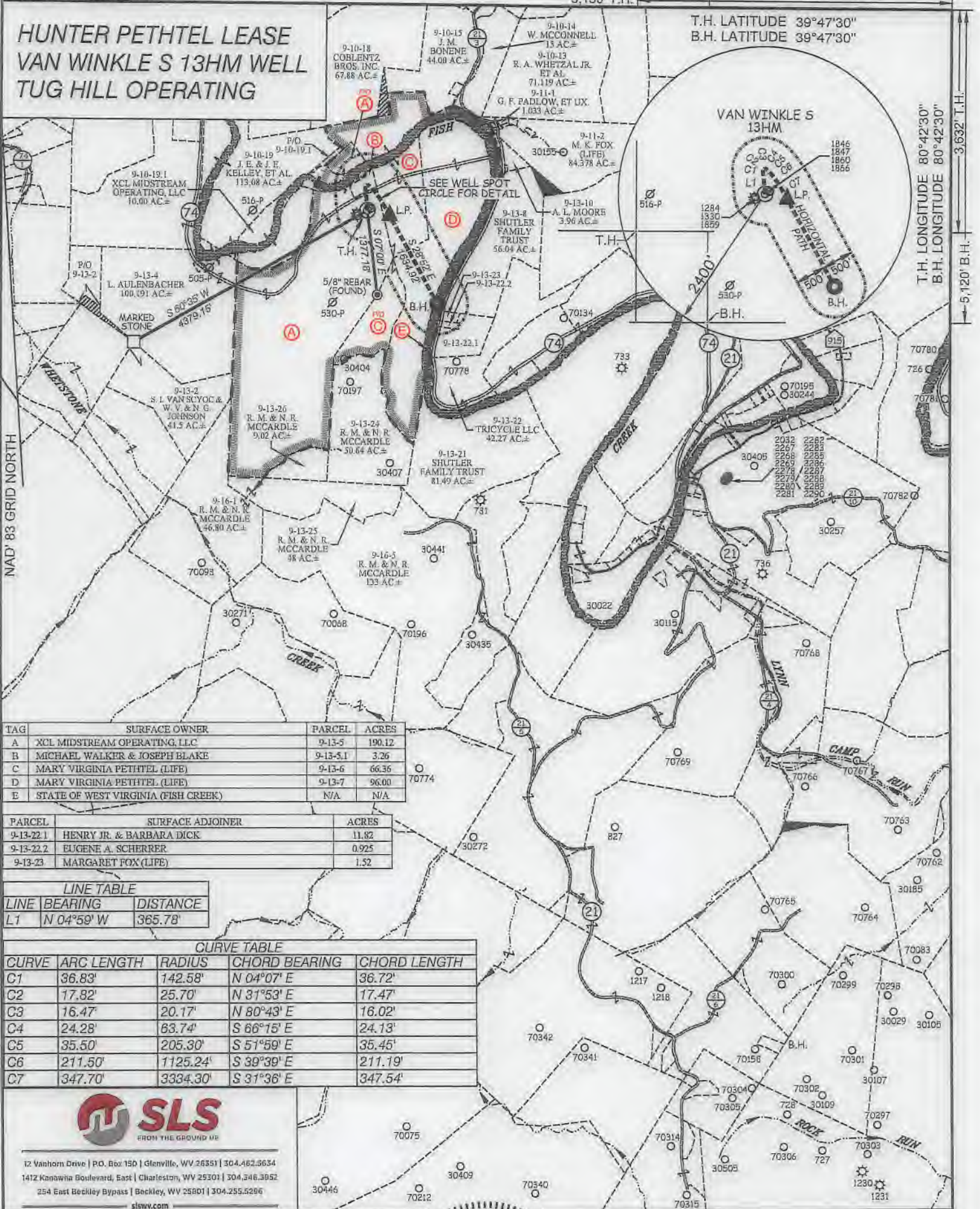
WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME PERMIT

**HUNTER PETHTEL LEASE
VAN WINKLE S 13HM WELL
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°47'30"



T.H. LONGITUDE 80°42'30"
B.H. LONGITUDE 80°42'30"

TAG	SURFACE OWNER	PARCEL	ACRES
A	XCL MIDSTREAM OPERATING, LLC	9-13-5	190.12
B	MICHAEL WALKER & JOSEPH BLAKE	9-13-5.1	3.26
C	MARY VIRGINIA PETHTEL (LIFE)	9-13-6	66.36
D	MARY VIRGINIA PETHTEL (LIFE)	9-13-7	96.00
E	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A

PARCEL	SURFACE ADJOINER	ACRES
9-13-22.1	HENRY JR. & BARBARA DICK	11.82
9-13-22.2	EUGENE A. SCHERRER	0.925
9-13-23	MARGARET FOX (LIFE)	1.52

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 04°59' W	365.78'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	36.83'	142.58'	N 04°07' E	36.72'
C2	17.82'	25.70'	N 81°53' E	17.47'
C3	16.47'	20.17'	N 80°43' E	16.02'
C4	24.28'	83.74'	S 66°15' E	24.13'
C5	35.50'	205.30'	S 51°59' E	35.45'
C6	211.50'	1125.24'	S 30°30' E	211.19'
C7	347.70'	3334.30'	S 31°36' E	347.54'



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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 849 *C. Victor Moyers*

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

SCALE 1" = 2000' FILE NO. 8952P13HM.dwg
VAN WINKLE S 13HM-REV2
DATE JANUARY 19, 20 21
REVISED _____
OPERATORS WELL NO. VAN WINKLE S 13HM
API WELL NO. 47 - 051 - 02362 H6A
STATE COUNTY PERMIT

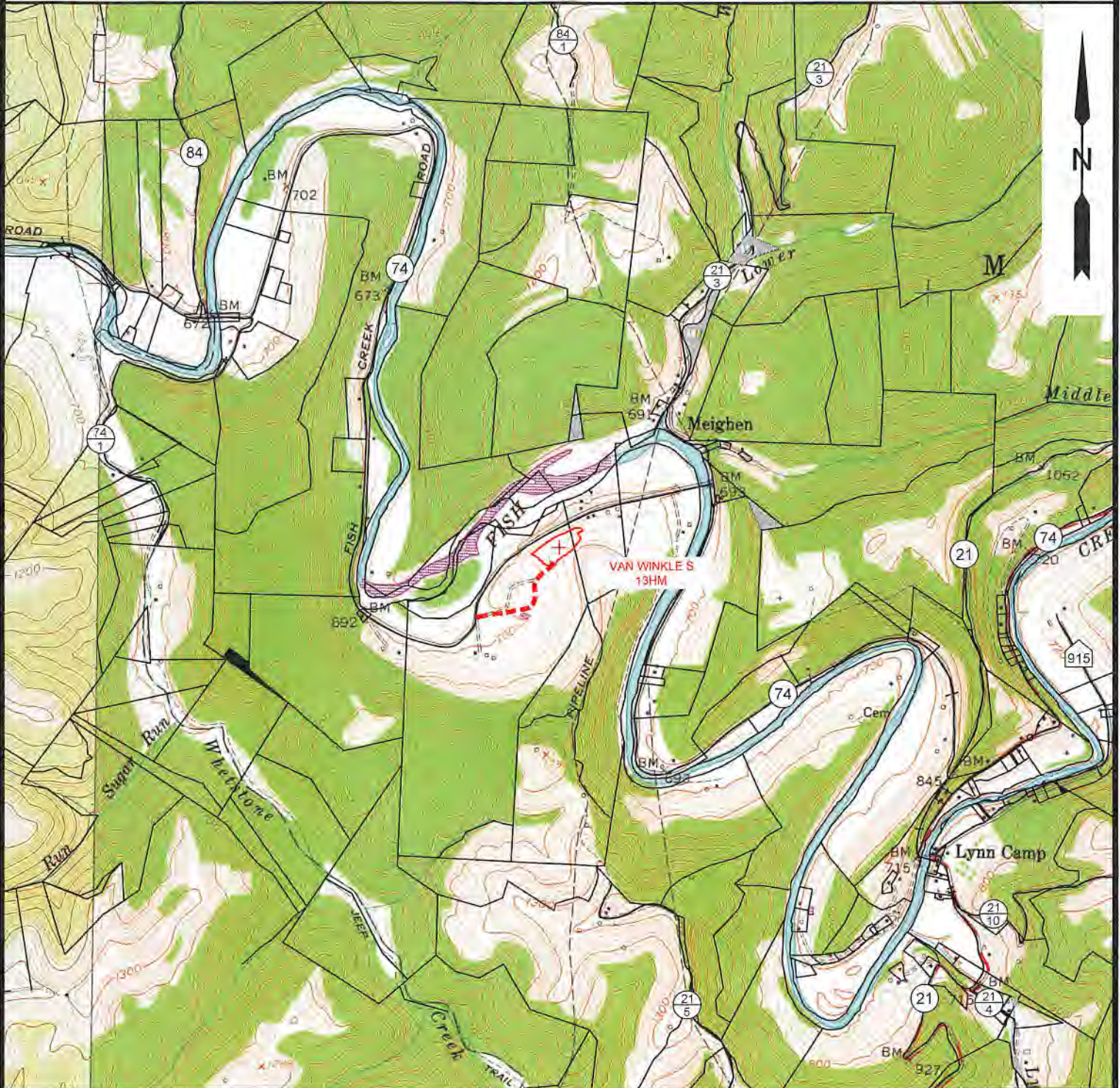
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

COUNTY NAME
PERMIT

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

03/12/2021

PROPOSED VAN WINKLE S - 13HM



NOTE: CLOSEST WATER PURVEYOR
GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT
PROCTOR, WV

LAT: 39.7137712
LON: -80.8258327
LOCATED: S 49°13'48" W AT 37,316.19' FROM THE CENTER OF HUNTER PETHTEL N WELL PAD LOCATION.



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TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
		SUITE 200	
		CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8952	12/24/2020	1" = 200'



TUG HILL
OPERATING
03/12/2021