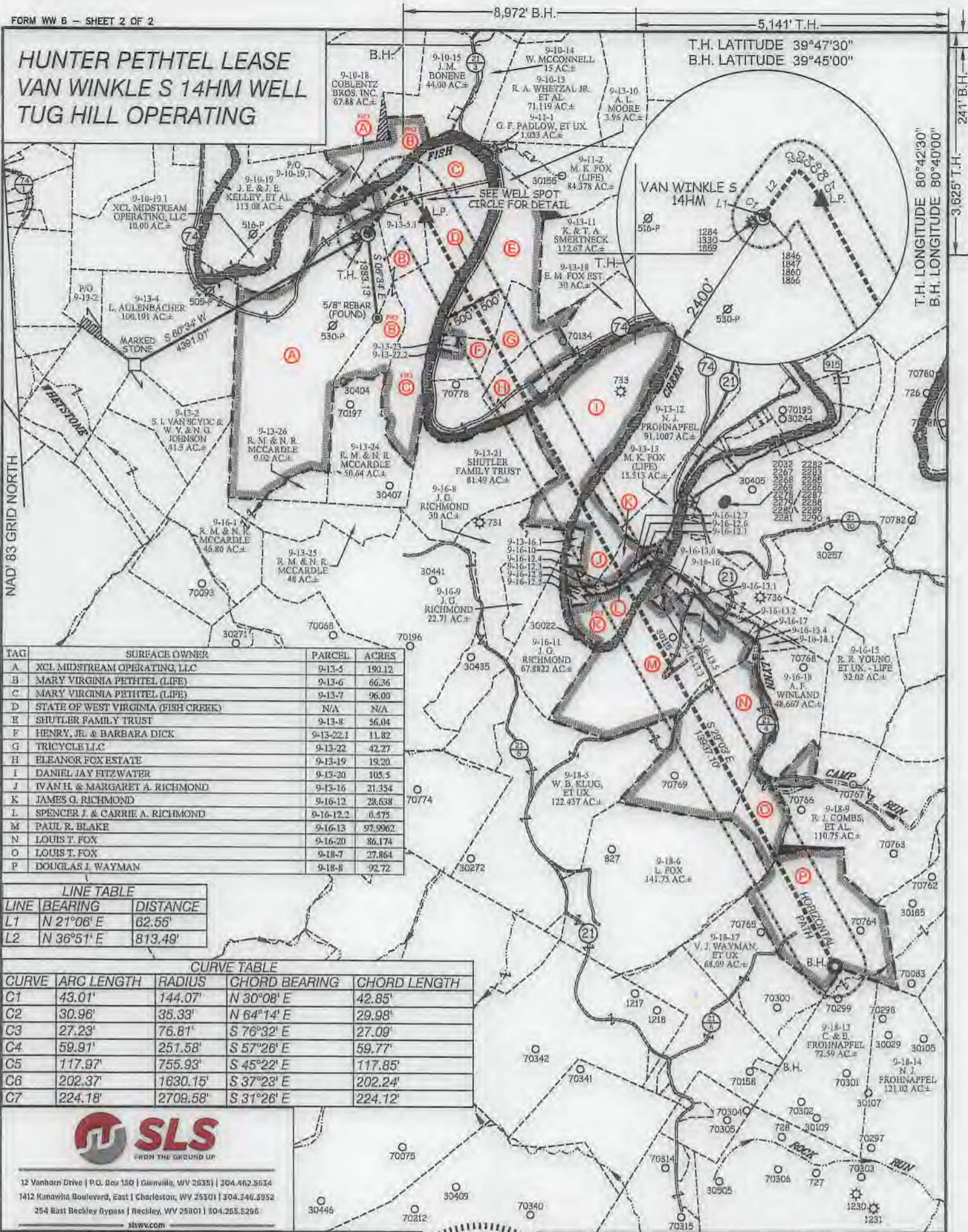


HUNTER PETHTEL LEASE VAN WINKLE S 14HM WELL TUG HILL OPERATING



TAG	SURFACE OWNER	PARCEL	ACRES
A	XCL MIDSTREAM OPERATING, LLC	9-13-5	190.12
B	MARY VIRGINIA PETHTEL (LIFE)	9-13-6	66.36
C	MARY VIRGINIA PETHTEL (LIFE)	9-13-7	96.00
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	SHUTLER FAMILY TRUST	9-13-8	56.04
F	HENRY, JR. & BARBARA DICK	9-13-22.1	11.82
G	TRICYCLE LLC	9-13-22	42.27
H	ELEANOR FOX ESTATE	9-13-19	19.20
I	DANIEL JAY FITZWATER	9-13-20	105.5
J	IVAN H. & MARGARET A. RICHMOND	9-13-16	21.354
K	JAMES G. RICHMOND	9-16-12	28.638
L	SPENCER J. & CARRIE A. RICHMOND	9-16-12.2	0.575
M	PAUL R. BLAKE	9-16-13	97.9962
N	LOUIS T. FOX	9-16-20	86.174
O	LOUIS T. FOX	9-18-7	27.864
P	DOUGLAS J. WAYMAN	9-18-8	92.72

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 21°08' E	62.55'
L2	N 36°51' E	813.49'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	43.01'	144.07'	N 30°08' E	42.85'
C2	30.96'	35.33'	N 64°14' E	29.98'
C3	27.23'	76.81'	S 76°32' E	27.09'
C4	59.97'	251.58'	S 57°26' E	59.77'
C5	117.97'	755.93'	S 45°22' E	117.85'
C6	202.37'	1630.15'	S 37°23' E	202.24'
C7	224.18'	2709.58'	S 31°26' E	224.12'

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 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsww.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 469,194.28	E. 1,823,783.04
NAD'83 GEO.	LAT-(N) 39.781716	LONG-(W) 80.726625
NAD'83 UTM (M)	N. 4,403,566.06	E. 523,409.32

LANDING POINT

NAD'83 S.P.C.(FT)	N. 469,480.5	E. 1,824,742.2
NAD'83 GEO.	LAT-(N) 39.782538	LONG-(W) 80.723227
NAD'83 UTM (M)	N. 4,403,658.2	E. 523,700.1

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 457,295.8	E. 1,831,507.9
NAD'83 GEO.	LAT-(N) 39.749340	LONG-(W) 80.698576
NAD'83 UTM (M)	N. 4,399,980.4	E. 525,823.3

VICTOR MOYERS
 LICENSED
 No. 849
 STATE OF
 WEST VIRGINIA
 PROFESSIONAL SURVEYOR

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

P.S. 849 *C. Victor Moyers*

SCALE 1" = 2000' FILE NO. 8952P-14HM.dwg
 VAN WINKLE S 14HM-REV1
 DATE JANUARY 20, 2021
 REVISED
 OPERATORS WELL NO. VAN WINKLE S 14HM
 API WELL NO. 47-051-02368
 NO. STATE COUNTY PERMIT

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

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)

03/12/2021

COUNTY NAME PERMIT

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

**HUNTER PETHTEL LEASE
VAN WINKLE S 14HM WELL
TUG HILL OPERATING**

B.H.

8,972' B.H.

5,141' T.H.

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT) N. 469,194.28 E. 1,623,783.04
NAD'83 GEO. LAT-(N) 39.781716 LONG-(W) 80.726625
NAD'83 UTM (M) N. 4,403,566.06 E. 523,409.32

LANDING POINT

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NAD'83 S.P.C.(FT) N. 457,295.8 E. 1,631,507.9
NAD'83 GEO. LAT-(N) 39.749340 LONG-(W) 80.698576
NAD'83 UTM (M) N. 4,399,980.4 E. 525,823.3

T.H.

T.H. LONGITUDE 80°42'30"
B.H. LONGITUDE 80°40'00"

241' B.H.

3,625' T.H.

PARCEL	SURFACE ADJOINER	ACRES
9-13-5.1	MICHAEL WALKER & JOSEPH BLAKE	3.26
9-13-16.1	IVAN H. & MARGARET A. RICHMOND	1.518
9-13-22.2	EUGENE A. SCHERRER	0.925
9-13-23	MARGARET FOX (LIFE)	1.52
9-16-10	IVAN H. & MARGARET A. RICHMOND	1.518
9-16-12.1	JAMES G. RICHMOND, ET UX	0.691
9-16-12.3	JAMES G. RICHMOND, ET UX	0.937
9-16-12.4	SHEILA TRUAX, ET VIR	0.516
9-16-12.5	TIMOTHY S. & GRETCHEN M. KIDD	1.23
9-16-12.6	SPENCY J. & CARRIE A. RICHMOND	0.141
9-16-12.7	SPENCY J. & CARRIE A. RICHMOND	0.55
9-16-12.8	IVAN H. & MARGARET A. RICHMOND	0.85
9-16-13.1	PAUL W. BLAKE (LIFE), WESLEY D. YEATER, JR., ET AL	0.91
9-16-13.2	ELEANOR M. FOX EST.	1.570
9-16-13.3	PAUL R. BLAKE	0.7538
9-16-13.4	JOHN FOX	0.533
9-16-13.5	PAUL R. BLAKE & PAUL R. BLAKE II	2.921
9-16-13.6	WESLEY D. YEATER, ET UX	2.144
9-16-16	CLINTON B. WHITELATCH, SR., ET UX, ESTS.	1 AC 5.6 P
9-16-17	ELEANOR M. FOX EST.	0.741
9-16-18.1	ROBIN D. & DAVID G. STEWART	3.333

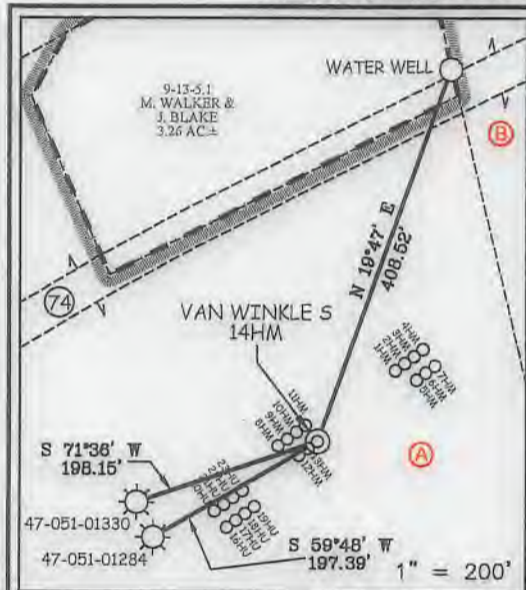
NOTES ON SURVEY

- 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.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.



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slsvw.com

REFERENCES



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. *C. Victor Moyers*
849



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JANUARY 20, 20 21
REVISED _____
OPERATORS WELL NO. VAN WINKLE S 14HM
API WELL NO. 47 - 051 - 02368
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P14HM.dwg
VAN WINKLE S 14HM-REV1
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 X INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
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 90.2 ±
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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: 6,298' / TMD: 20,565'

COUNTY NAME

PERMIT

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

03/12/2021

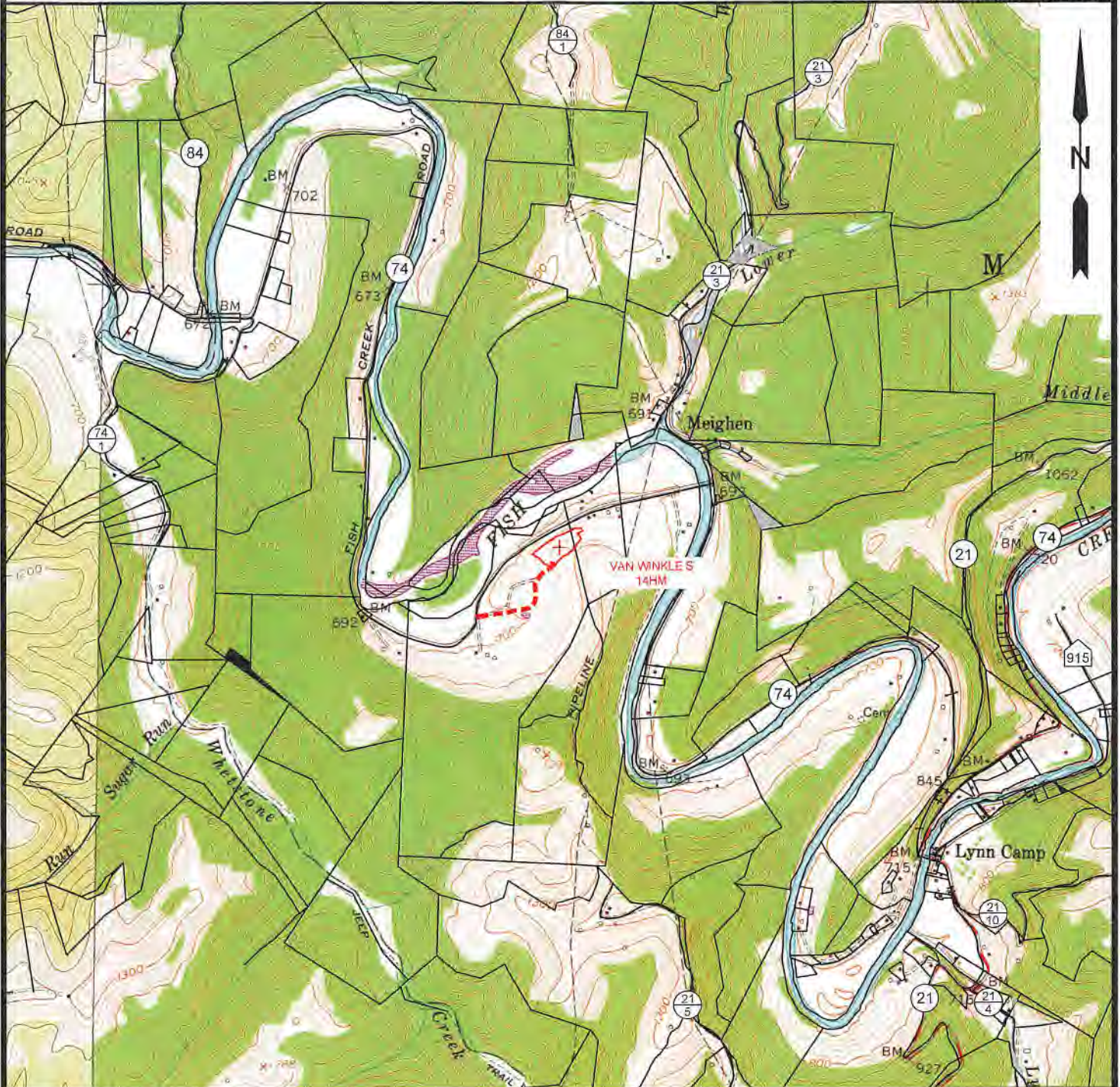
4705102368

WW-9

PROPOSED VAN WINKLE S - 14HM

Office of Oil and Gas
SUPPLEMENT PG. 2
JAN 25 2021

WV Department of
Environmental Protection



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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254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295
slsw.com

TOPO SECTION:

GLEN EASTON 7.5'

COUNTY DISTRICT

MARSHALL MEADE

DRAWN BY JOB NO.

K.G.M. 8952

OPERATOR:

PREPARED FOR:
TUG HILL OPERATING, LLC
380 SOUTHPOINTE BLVD
SUITE 200
CANONSBURG, PA 15317

DATE SCALE

12/24/2020 1" - 2000'



TUG HILL
OPERATING

03/12/2021