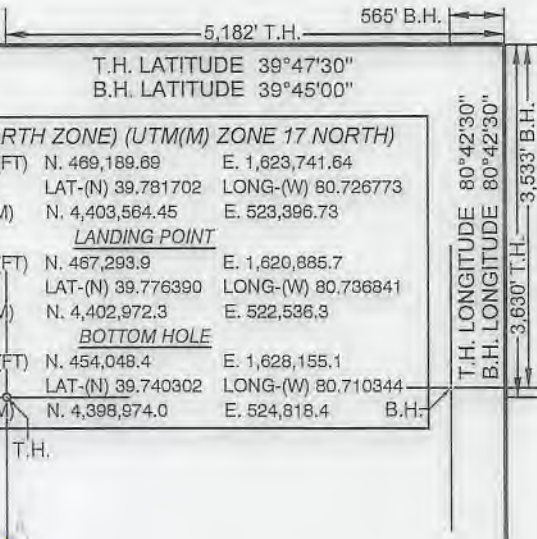


**HUNTER PETHTEL LEASE  
VAN WINKLE S 8HM WELL  
TUG HILL OPERATING**

PARCEL	SURFACE ADJOINER	ACRES
5-16-8	LOUIS AULENBACHER	21.00
9-13-5.1	MICHAEL WALKER & JOSEPH BLAKE	3.26
9-18-4	WILLIAM B. KLUG, ET UX	1.00
9-18-3	WILLIAM B. KLUG, ET UX	1.33
9-18-15.1	NICHOLAS FROHNAPFEL, ET UX	0.68
9-18-16.1	NICHOLAS FROHNAPFEL, ET UX	1.50
9-18-16.2	JOHN F. WAYMAN	2.17
9-18-16.3	BERNARD KLUG, ET UX ESTS.	1.81
9-18-18.1	JOHN F. WAYMAN	1.10

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

NAD'83 S.P.C.(FT)	N. 469,189.89	E. 1,623,741.64
NAD'83 GEO.	LAT-(N) 39.781702	LONG-(W) 80.726773
NAD'83 UTM (M)	N. 4,403,564.45	E. 523,396.73
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 467,293.9	E. 1,620,885.7
NAD'83 GEO.	LAT-(N) 39.776390	LONG-(W) 80.736841
NAD'83 UTM (M)	N. 4,402,972.3	E. 522,536.3
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 454,048.4	E. 1,628,155.1
NAD'83 GEO.	LAT-(N) 39.740302	LONG-(W) 80.710344
NAD'83 UTM (M)	N. 4,398,974.0	E. 524,818.4



**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.



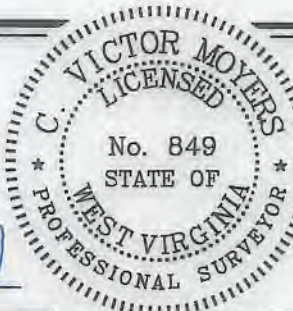
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 slsv.com

**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. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 13, 20 21  
 REVISED \_\_\_\_\_  
 OPERATORS WELL NO. VAN WINKLE S 8HM  
 API WELL NO. 47-051-01330 47-051-01284  
 STATE 47 COUNTY 051 PERMIT 02357

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8952P8HM.dwg  
VAN WINKLE S 8HM-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  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: GROUND: 756.10' 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 10.2 **03/12/2021**

PROPOSED WORK: LEASE NO. SEE WW-6A1  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  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: 6,220' / TMD: 22,731'

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

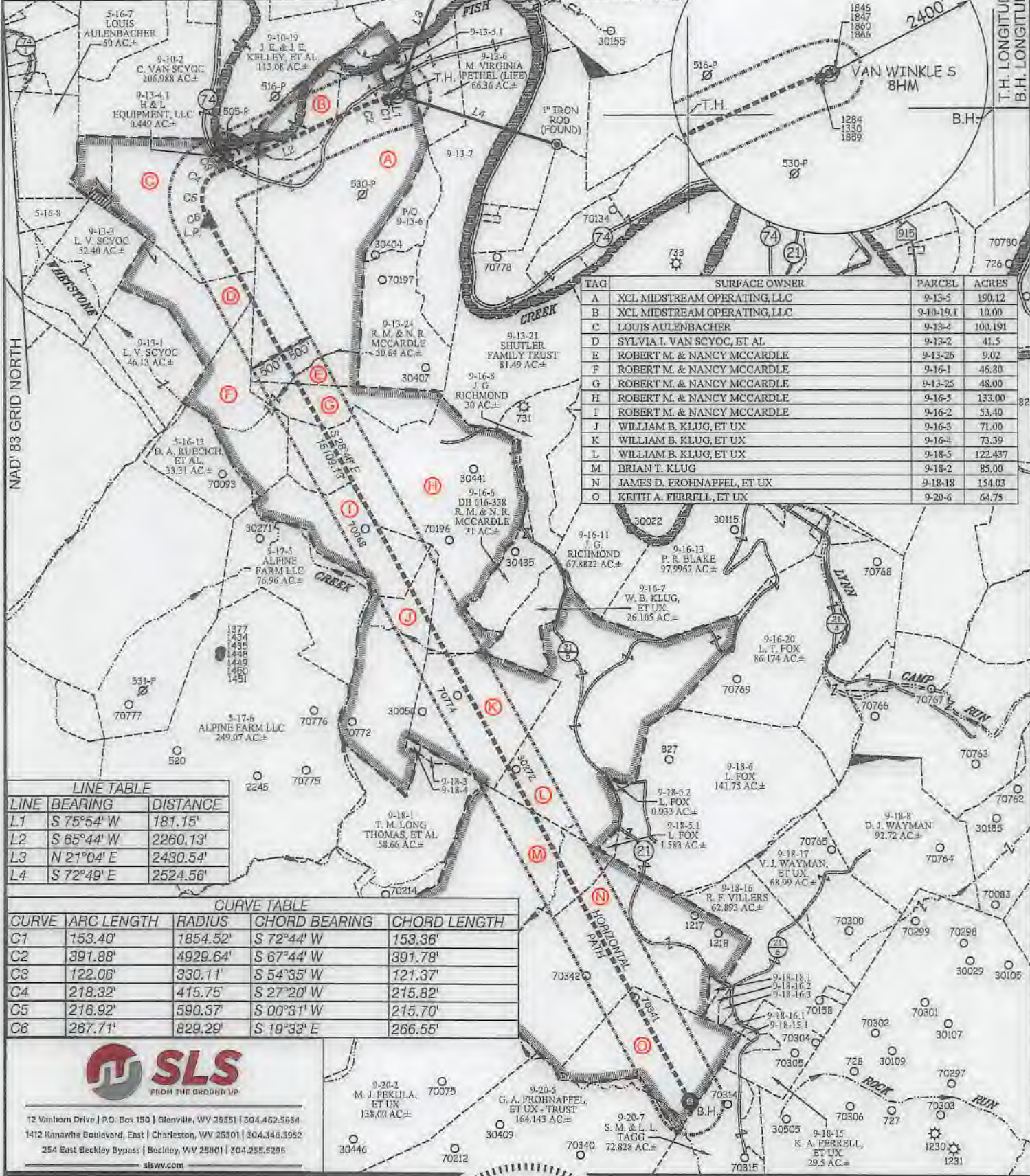
COUNTY NAME  
 PERMIT



# HUNTER PETHTEL LEASE VAN WINKLE S 8HM WELL TUG HILL OPERATING

5,182' T.H. 565' B.H.  
T.H. LATITUDE 39°47'30"  
B.H. LATITUDE 39°45'00"

T.H. LONGITUDE 80°42'30"  
B.H. LONGITUDE 80°42'30"  
3,630' T.H. 3,533' B.H.



TAG	SURFACE OWNER	PARCEL	ACRES
A	XCL MIDSTREAM OPERATING, LLC	9-13-5	190.12
B	XCL MIDSTREAM OPERATING, LLC	9-10-19.1	10.00
C	LOUIS AULENBACHER	9-13-4	100.191
D	SYLVIA I. VAN SCYOC, ET AL	9-13-2	41.5
E	ROBERT M. & NANCY MCCARDLE	9-13-26	9.02
F	ROBERT M. & NANCY MCCARDLE	9-16-1	46.80
G	ROBERT M. & NANCY MCCARDLE	9-13-25	48.00
H	ROBERT M. & NANCY MCCARDLE	9-16-5	133.00
I	ROBERT M. & NANCY MCCARDLE	9-16-2	53.40
J	WILLIAM B. KLUG, ET UX	9-16-3	71.00
K	WILLIAM B. KLUG, ET UX	9-16-4	73.39
L	WILLIAM B. KLUG, ET UX	9-18-5	122.437
M	BRIAN T. KLUG	9-18-2	85.00
N	JAMES D. FROHNAPPEL, ET UX	9-18-18	154.03
O	KEITH A. FERRELL, ET UX	9-20-6	64.75

**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S 75°54' W	181.15'
L2	S 65°44' W	2260.13'
L3	N 21°04' E	2430.54'
L4	S 72°49' E	2524.56'

**CURVE TABLE**

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	153.40'	1854.52'	S 72°44' W	153.36'
C2	391.88'	4929.64'	S 67°44' W	391.78'
C3	122.08'	330.11'	S 54°35' W	121.37'
C4	218.32'	415.75'	S 27°20' W	215.82'
C5	216.92'	590.37'	S 00°31' W	215.70'
C6	267.71'	829.29'	S 19°33' E	266.55'



12 Vanhorn Drive | P.O. Box 150 | Glenview, WV 26351 | 304.452.5534  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295  
slsvw.com



(+) 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. 8952P8HM.dwg  
VAN WINKLE S 8HM-REV/1  
DATE JANUARY 13, 20 21  
REVISED \_\_\_\_\_  
OPERATORS WELL NO. VAN WINKLE S 8HM  
API WELL NO. 47-051-02357 H&A  
NO. STATE COUNTY PERMIT

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

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

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

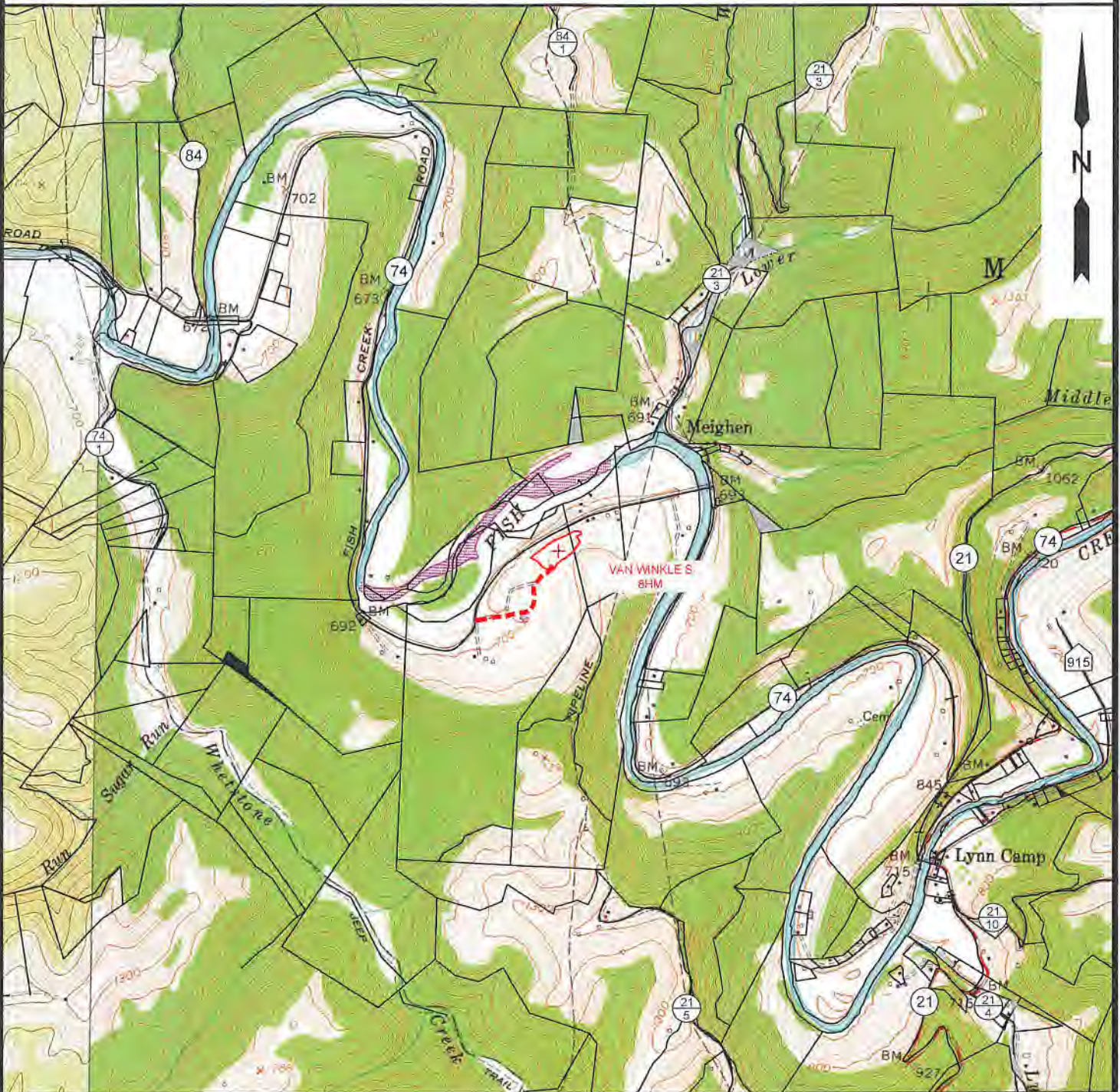
DESIGNATED AGENT  
ADDRESS

COUNTY NAME  
PERMIT

03/12/2021



# PROPOSED VAN WINKLE S - 8HM



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 PETHEL N WELL PAD LOCATION.

RECEIVED  
Office of Oil and Gas



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 | 504.255.5296  
slswv.com

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" = 2000'



03/12/2021