

8,004' B.H. 5,020' T.H.

**HUNTER PETHTEL LEASE  
VAN WINKLE N 7HM WELL  
TUG HILL OPERATING**

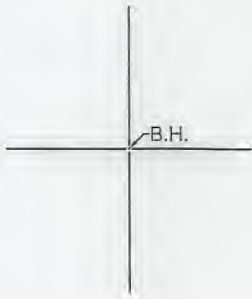
T.H. LATITUDE 39°47'30"		
B.H. LATITUDE 39°50'00"		
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 469,272.46	E. 1,623,905.07
NAD'83 GEO.	LAT-(N) 39.781936	LONG-(W) 80.726195
NAD'83 UTM (M)	N. 4,403,590.50	E. 523,446.10
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 469,895.3	E. 1,624,438.4
NAD'83 GEO.	LAT-(N) 39.783665	LONG-(W) 80.724328
NAD'83 UTM (M)	N. 4,403,783.0	E. 523,605.4
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 476,093.5	E. 1,621,012.4
NAD'83 GEO.	LAT-(N) 39.800551	LONG-(W) 80.736821
NAD'83 UTM (M)	N. 4,405,653.8	E. 522,530.1

T.H. LONGITUDE 80°42'30"  
B.H. LONGITUDE 80°42'30"  
3,545' T.H.

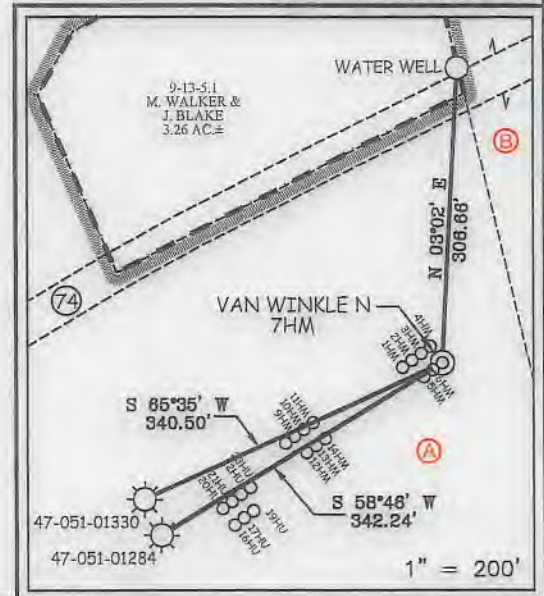
11,942' B.H.

**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.

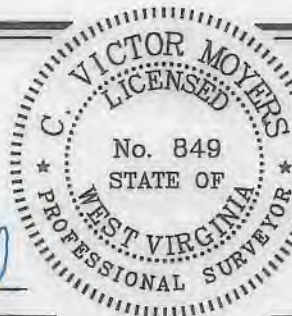


**REFERENCES**



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 | 304.255.5295  
sfsww.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. C. Victor Moyers  
849

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JANUARY 22, 20 21  
REVISED \_\_\_\_\_  
OPERATORS WELL NO. VAN WINKLE N 7HM  
API WELL NO. 47-051-01284 1164  
STATE COUNTY PERMIT 02367

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P7HM.dwg  
VAN WINKLE N 7HM-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: ELEVATION GROUND: 756.30' 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 190.12 ±

PROPOSED WORK: 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: 6,297' / TMD: 13,697'

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

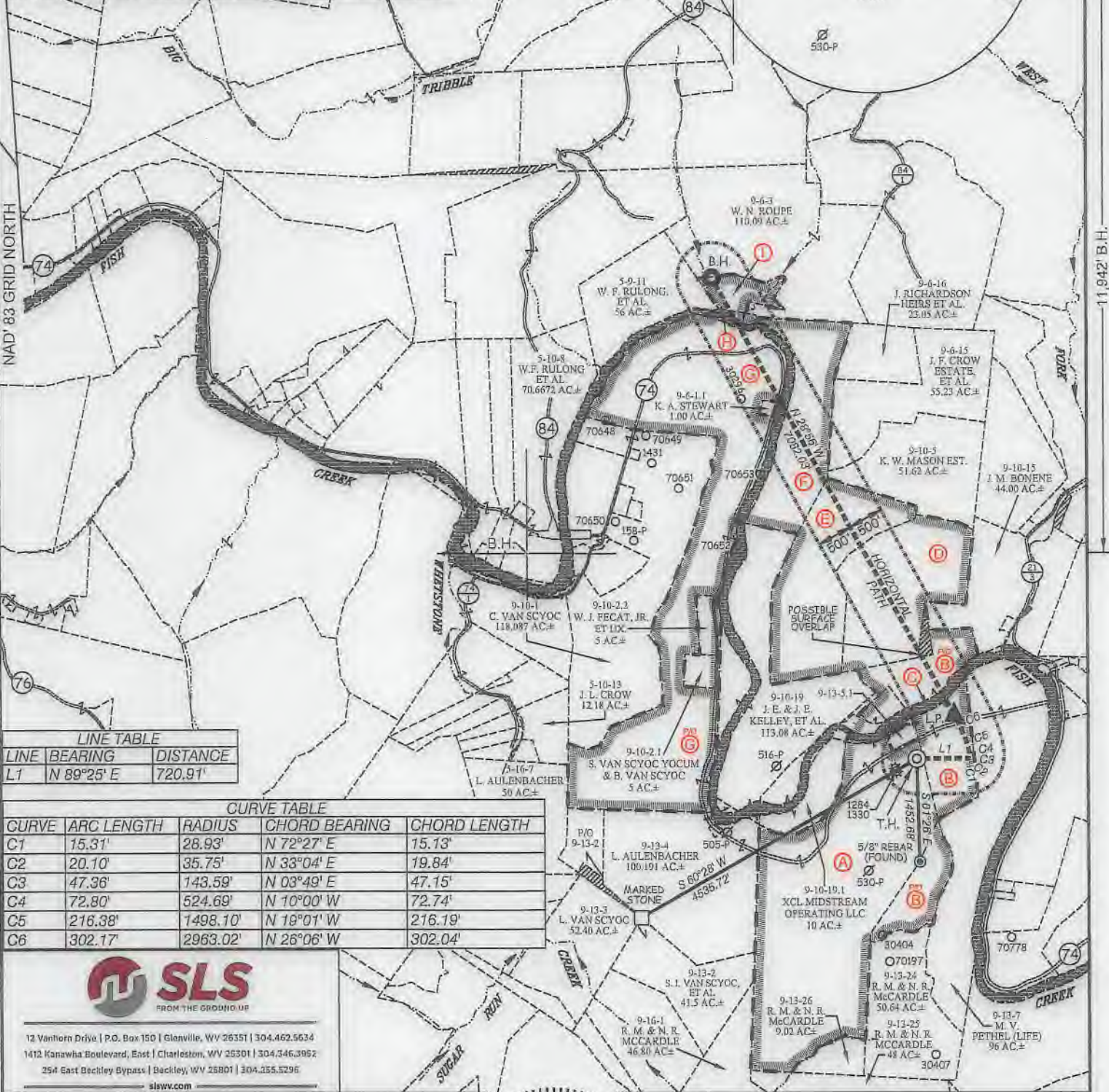
COUNTY NAME  
PERMIT

03/12/2021



# HUNTER PETHTEL LEASE VAN WINKLE N 7HM 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	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	COBLENTZ BROS. INC.	9-10-18	67.88
E	KENNETH W. MASON EST.	9-10-4	67.00
F	WILLIAM N. ROUPE	9-10-3	52.00
G	CAROL VAN SCYOC	9-10-2	206.988
H	CONSOLIDATION COAL COMPANY (MURRAY ENERGY)	9-6-1.2	2.222
I	CONSOLIDATION COAL COMPANY (MURRAY ENERGY)	9-6-3.1	10.00



**LINE TABLE**

LINE	BEARING	DISTANCE
L1	N 89°25' E	720.91'

**CURVE TABLE**

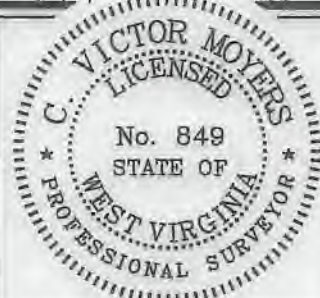
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	15.31'	28.93'	N 72°27' E	15.13'
C2	20.10'	35.75'	N 33°04' E	19.84'
C3	47.36'	143.59'	N 03°49' E	47.15'
C4	72.80'	524.69'	N 10°00' W	72.74'
C5	216.38'	1498.10'	N 18°01' W	216.19'
C6	302.17'	2963.02'	N 26°06' W	302.04'



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 slsvv.com

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

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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. 8952P7HM.dwg  
 VAN WINKLE N 7HM-REV1  
 DATE JANUARY 22, 20 21  
 REVISED \_\_\_\_\_  
 OPERATORS WELL NO. VAN WINKLE N 7HM  
 API WELL NO. 47-051-  
 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

COUNTY NAME  
 PERMIT

03/12/2021



4705102367

RECEIVED

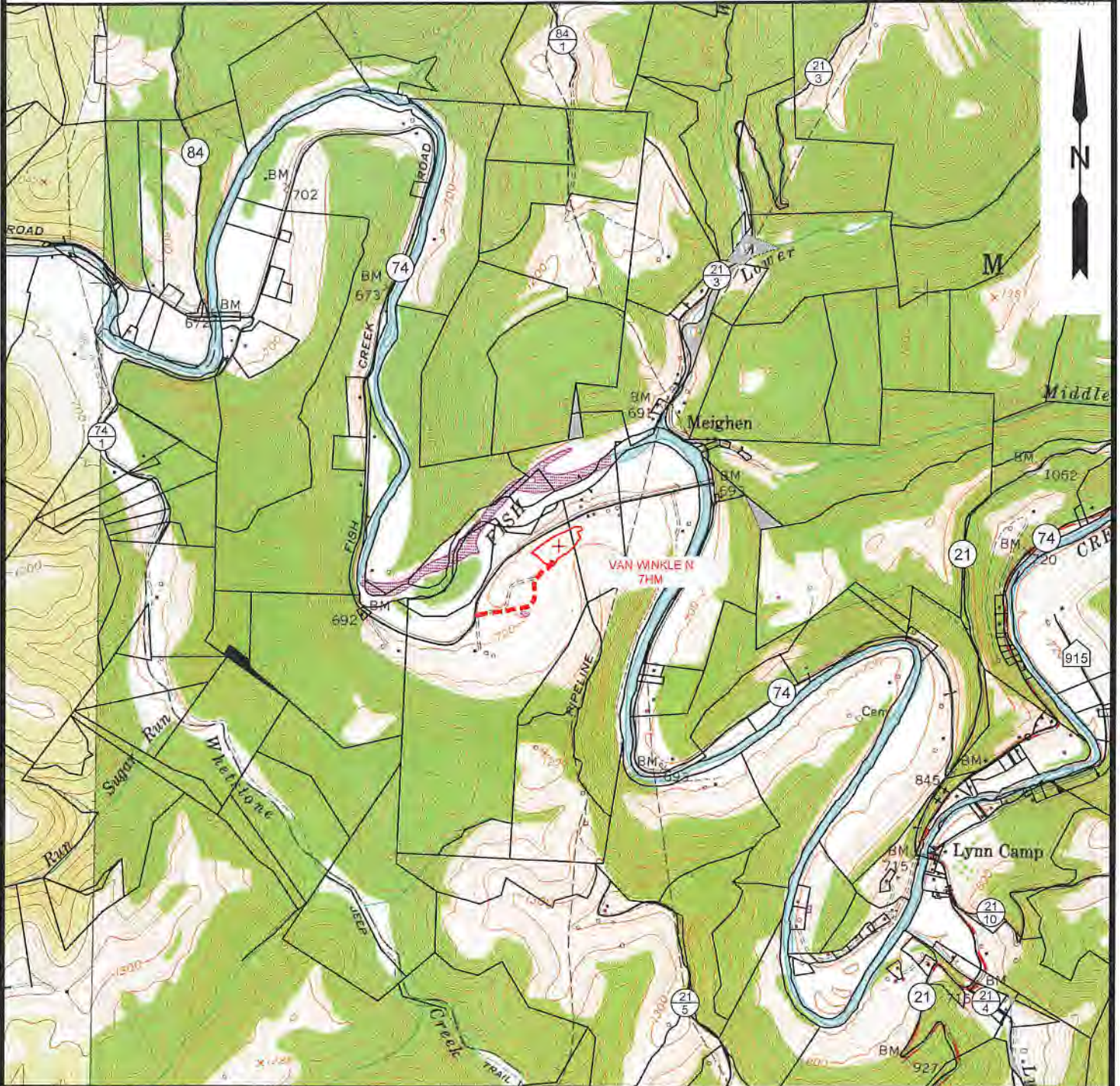
Office of Oil and Gas

SUPPLEMENT PG. 2  
JAN 25 2021

WW-9

# PROPOSED VAN WINKLE N - 7HM

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 PETHEL N WELL PAD LOCATION.



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 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'



**TUG HILL**  
OPERATING

03/12/2021