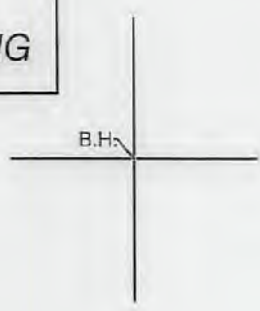


HEAVEN HILL 3N
WELL 14HM
TUG HILL OPERATING

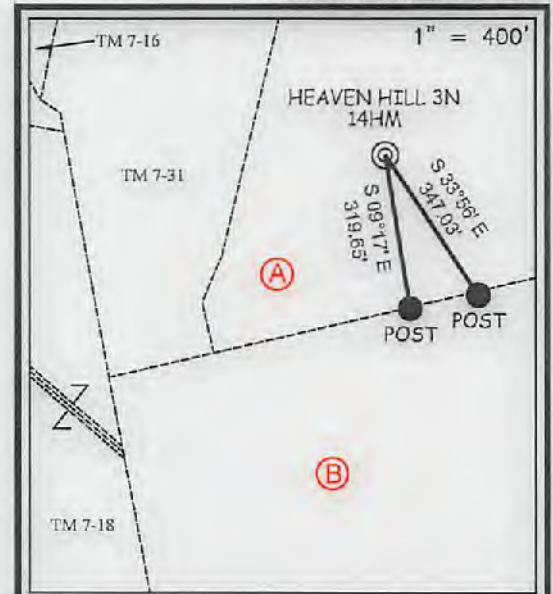
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 478,865.46	E. 1,633,336.75
NAD'83 GEO.	LAT-(N) 39.808818	LONG-(W) 80.693091
NAD'83 UTM (M)	N. 4,406,561.07	E. 526,270.67
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 477,886.0	E. 1,634,527.4
NAD'83 GEO.	LAT-(N) 39.805972	LONG-(W) 80.688307
NAD'83 UTM (M)	N. 4,406,268.7	E. 526,638.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 485,347.0	E. 1,630,513.5
NAD'83 GEO.	LAT-(N) 39.626307	LONG-(W) 80.703449
NAD'83 UTM (M)	N. 4,408,521.3	E. 526,377.5



T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"
2,560' B.H.
9,003' T.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'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 26801 | 304.255.5296
slswv.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 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 30, 20 19
REVISED NOVEMBER 5, 2019 & MAY 13, 2022
OPERATORS WELL NO. HEAVEN HILL 3N-14HM
API WELL NO. 47 - 051 - 02451
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8654P14HMR3.dwg
HEAVEN HILL 3-14HM REV5
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 1,328.00' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER ANDREW C. WHITLATCH ET UX ACREAGE 72.82±
ROYALTY OWNER RICKY L. WHITLATCH, ET AL ACREAGE 72.82±

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: 6,969' / TMD: 16,171'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 CT CORPORATION
FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON ST. W, STE 407
CHARLESTON, WV 25313-1561

COUNTY NAME
PERMIT

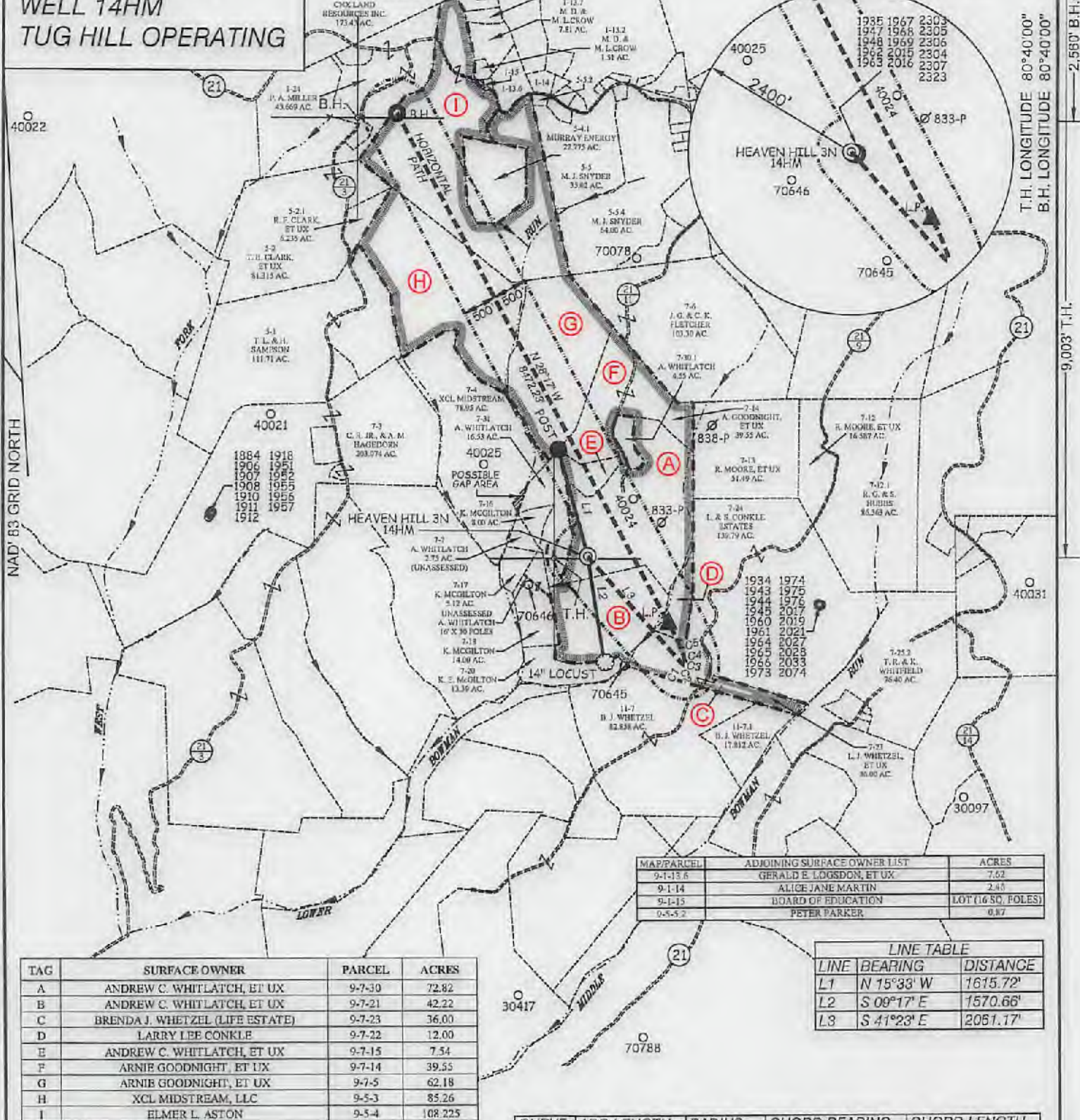
07/01/2022

10,331' B.H.

7,423' T.H.

**HEAVEN HILL 3N
WELL 14HM
TUG HILL OPERATING**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-1-13.5	GERALD E. LOGSDON, ET UX	7.62
9-1-14	ALICE JANE MARTIN	2.49
9-1-15	BOARD OF EDUCATION	LOT (16 SQ. POLES)
9-5-2	PETER PARKER	0.87

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 15°33' W	1615.72'
L2	S 09°17' E	1570.66'
L3	S 41°23' E	2051.17'

TAG	SURFACE OWNER	PARCEL	ACRES
A	ANDREW C. WHITLATCH, ET UX	9-7-30	72.82
B	ANDREW C. WHITLATCH, ET UX	9-7-21	42.22
C	BRENDA J. WHETZEL (LIFE ESTATE)	9-7-23	36.00
D	LARRY LEE CONKLE	9-7-22	12.00
E	ANDREW C. WHITLATCH, ET UX	9-7-15	7.54
F	ARNIE GOODNIGHT, ET UX	9-7-14	39.55
G	ARNIE GOODNIGHT, ET UX	9-7-5	62.18
H	XCL MIDSTREAM, LLC	9-5-3	85.26
I	ELMER L. ASTON	9-5-4	108.225

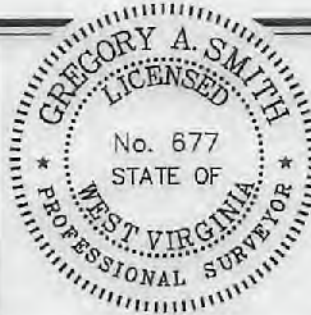
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	62.97'	241.30'	S 46°57' E	62.79'
C2	17.25'	30.75'	S 70°15' E	17.02'
C3	20.18'	14.67'	N 39°16' E	18.63'
C4	110.88'	298.33'	N 11°17' W	110.24'
C5	542.32'	3413.10'	N 24°25' W	541.75'



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

P.S. 849

Gregory A. Smith

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. 0654P14HMR3.dwg
 HEAVEN HILL 3-14HM REV5
 DATE AUGUST 30, 2019
 REVISED NOVEMBER 5, 2019 & MAY 13, 2022
 OPERATORS WELL NO. HEAVEN HILL 3N-14HM
 API WELL NO. 47-051-02451
 STATE COUNTY PERMIT

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



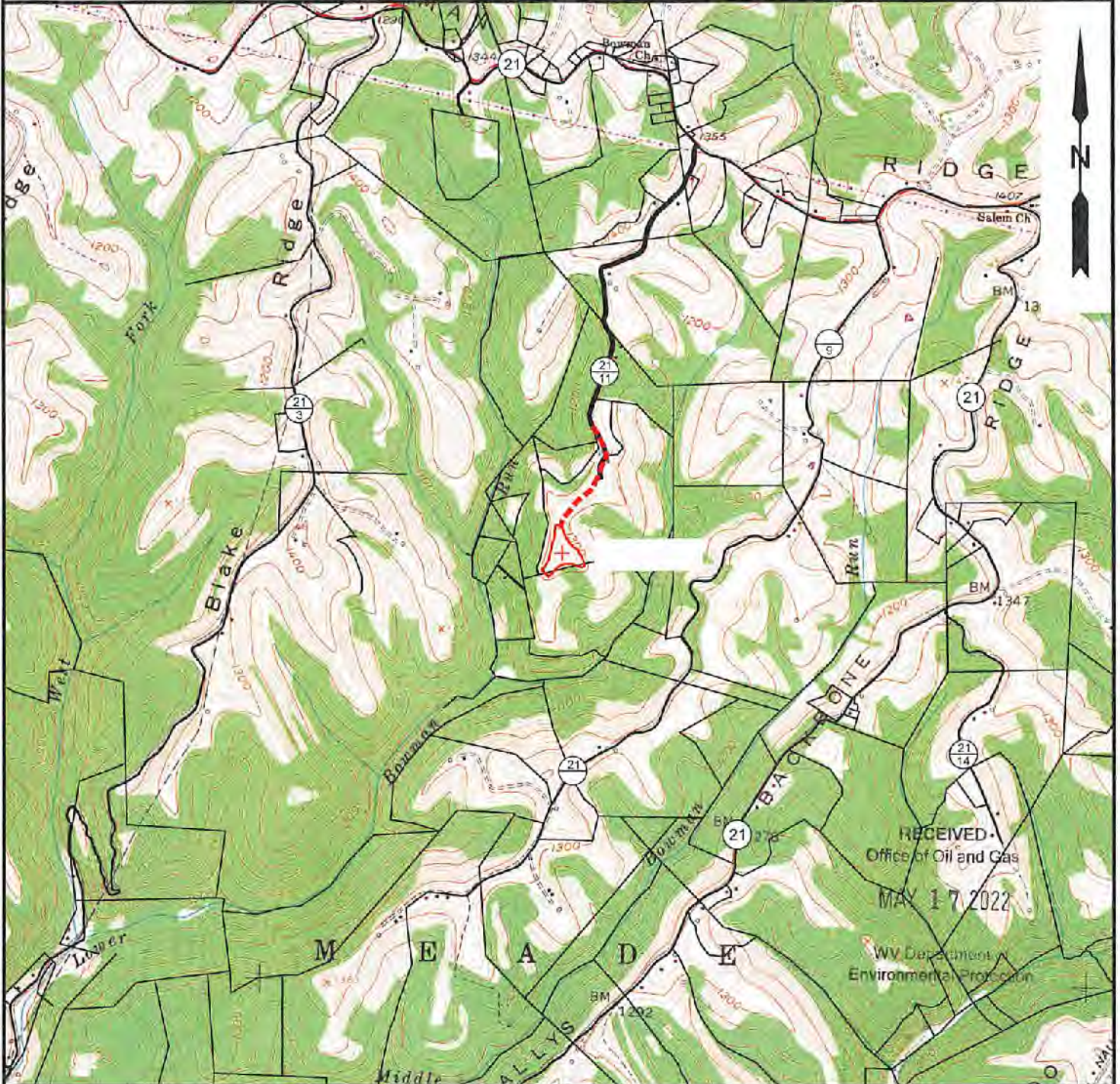
07/01/2022

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

DESIGNATED AGENT DARREN BROWN
 CT CORPORATION
 ADDRESS 5098 WASHINGTON ST. W, STE 407
 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

**PROPOSED
HEAVEN HILL 3N - 14HM**



RECEIVED
Office of Oil and Gas
MAY 17 2022
WV Department of
Environmental Protection

NOTE: CLOSEST WATER PURVEYOR
CITY OF CAMERON - FRANK WALKER RESERVOIR
CAMDEN, WV

LAT: 39.829865
LON: -80.573724
LOCATED: N 77°44'18" E AT 34,474.56' FROM THE CENTER OF HEAVEN HILL 3N 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	
DRAWN BY		SUITE 200	
K.G.M.	JOB NO.	CANONSBURG, PA 15317	
	8654	DATE	SCALE
		06/21/2019	1" = 2000'

**TUG HILL
OPERATING**

07/01/2022