

9,973' B.H.

7,508' T.H.

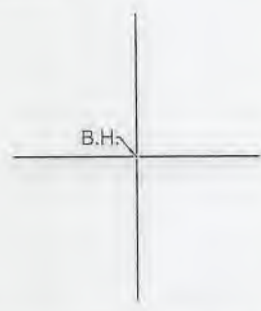
**HEAVEN HILL 3N LEASE
UTICA UNIT - 686.21 AC±
WELL 16HU
TUG HILL OPERATING**

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. 478,885.94	E. 1,633,252.74
NAD'83 GEO.	LAT-(N) 39.808671	LONG-(W) 80.693391
NAD'83 UTM (M)	N. 4,406,566.88	E. 526,244.97
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 477,762.2	E. 1,634,304.3
NAD'83 GEO.	LAT-(N) 39.805624	LONG-(W) 80.689595
NAD'83 UTM (M)	N. 4,406,229.9	E. 526,571.1
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 484,059.1	E. 1,630,854.1
NAD'83 GEO.	LAT-(N) 39.822784	LONG-(W) 80.702175
NAD'83 UTM (M)	N. 4,408,130.7	E. 525,487.9

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

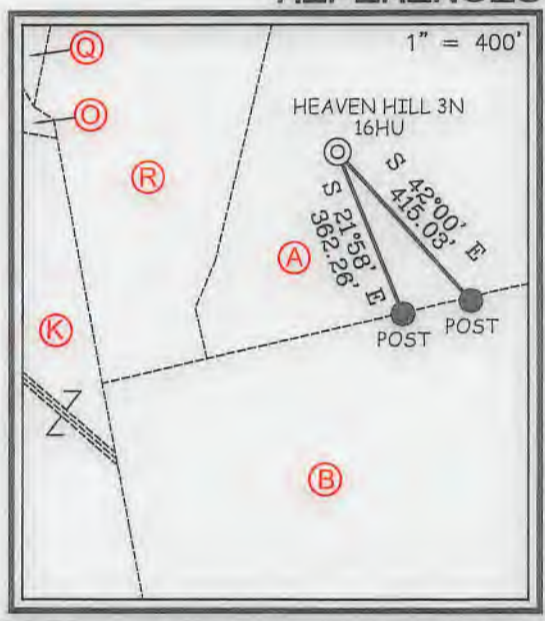


NOTES ON SURVEY

- 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'
- PROPOSED LATERAL OR TOP HOLE OF HEAVEN HILL 3N-16HU (47-051-02307) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF EXISTING WELLS
 HEAVEN HILL 3-6HU (47-051-01968),
 HEAVEN HILL 3-7HU (47-051-01969),
 HEAVEN HILL 3-8HU (47-051-01967),
 TEN HIGH 1N-11HU (47-051-01960),
 TEN HIGH 1N-12HU (47-051-01961),
 TEN HIGH 1N-13HU (47-051-01965),
 TEN HIGH 1N-20HU (47-051-02021),
 TEN HIGH 1S-14HU (47-051-01966),
 TEN HIGH 1S-15HU (47-051-02027),
 TEN HIGH 1S-16HU (47-051-02028),
 TEN HIGH 1S-17HU (47-051-02033),
 HEAVEN HILL 3N-10HU (47-051-02016) & PROPOSED HEAVEN HILL 3N-15HU (47-051-02306).

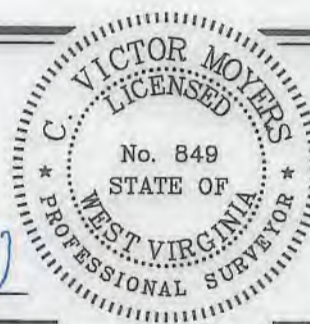
TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
B	RICKY L. WHITLATCH	9-7-21	42.22
C	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-22	12.00
D	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-24	139.79
E	LARRY J. WHETZEL, ET UX	9-7-23	36.00
F	BRENDA J. WHETZEL	9-11-7	82.858
G	WILLIAM F. & JULIA A. KERNS	9-11-6.2	46.47
H	BRENDA J. WHETZEL	9-11-6.1	30.24
I	KEVIN E. MCGILTON	9-7-19	23.00
J	KEVIN E. MCGILTON	9-7-20	13.39
K	KEVIN E. MCGILTON	9-7-18	14.00
L	CONSOL MINING COMPANY LLC	9-7-2	116.12
M	RICKY L. WHITLATCH	NOT ASSD.	16' X 32P
N	KEVIN E. MCGILTON	9-7-17	5.12
O	RICKY L. WHITLATCH	NOT ASSD.	2.75
P	MICHAEL PINE, ET UX	9-7-1	107.46
Q	KEVIN E. MCGILTON	9-7-16	8.00
R	RICKY L. WHITLATCH	9-7-31	16.53
S	RICKY L. WHITLATCH	9-7-15	7.54
T	ARNIE GOODNIGHT, ET UX	9-7-14	39.55
U	HELEN ROBERTSON PAYNE	9-7-4	78.95
V	CHARLES R. JR. & ANNA MARIE HAGEDORN	9-7-3	203.074
W	CHARLES R. JR. & ANNA MARIE HAGEDORN	9-7-3.1	4.579
X	ARNIE GOODNIGHT, ET UX	9-7-5	62.18
Y	TERRI L. & HARIKLIA SAMPSON	9-5-1	111.71
Z	HELEN ROBERTSON PAYNE	9-5-3	85.26
AA	CONSOLIDATION COAL COMPANY	9-5-4.1	22.775
BB	ELMER L. ASTON	9-5-4	108.225

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 | 304.255.5296
 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 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 20, 20 19
 REVISED 10/23/19, 03/25/20, 07/08/20
 OPERATORS WELL NO. HEAVEN HILL 3N-16HU
 API WELL NO. 47 - 051 - 02307 H6A
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P16HUR4.dwg
 HEAVEN HILL 3N-16HU REV6
 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 LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP X SHALLOW ___

LOCATION: GROUND = 1,336.70' ELEVATION PROPOSED = 1,326.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)
 DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER RICKY L. WHITLATCH ACREAGE 72.82±
 ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE ADDITIONAL SHEETS ACREAGE 72.82±

PROPOSED WORK: LEASE NO. SEE ADDITIONAL SHEETS
 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 POINT PLEASANT ESTIMATED DEPTH TVD: 11,701' / TMD: 19,738'

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

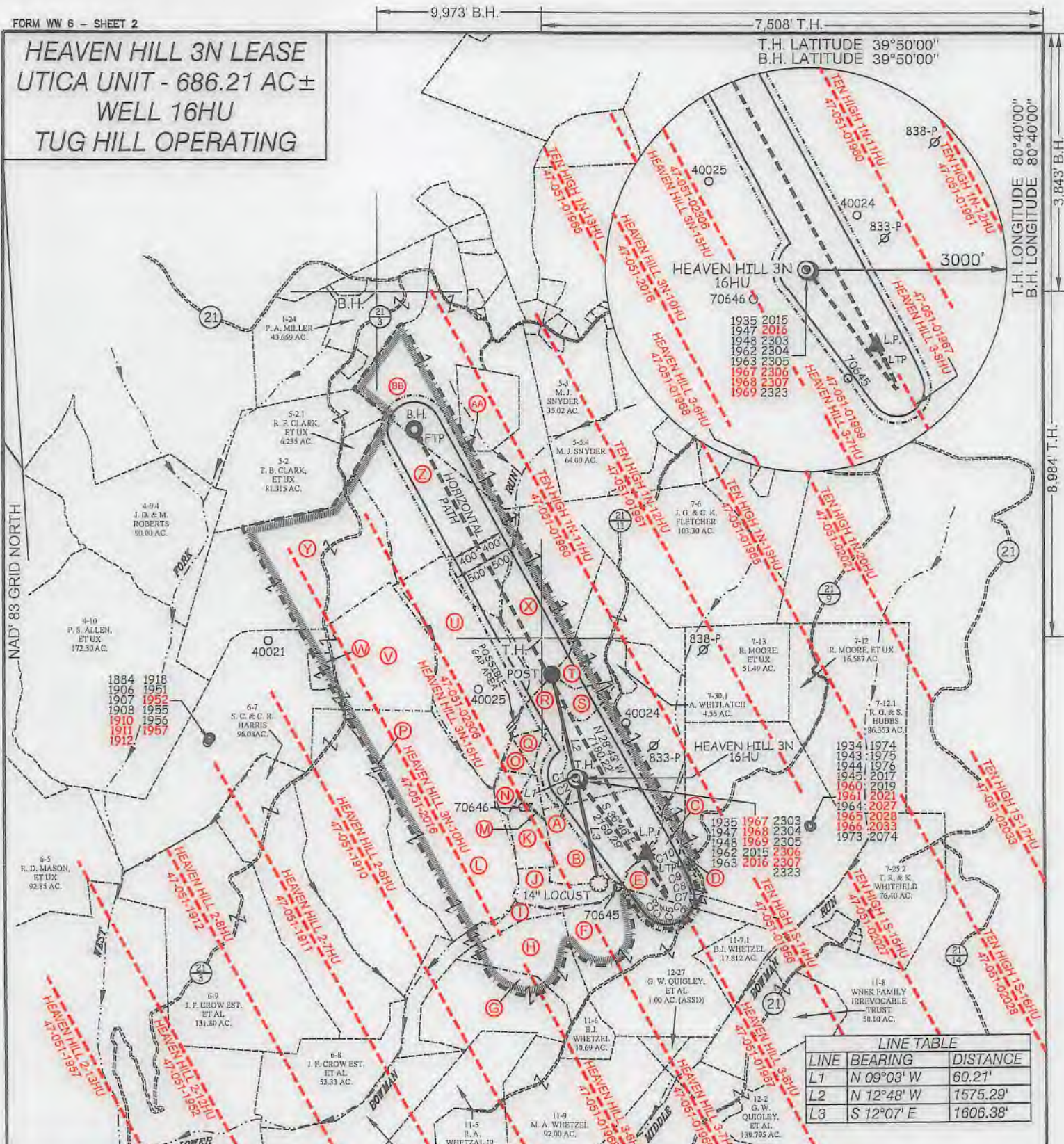
COUNTY NAME PERMIT

**HEAVEN HILL 3N LEASE
UTICA UNIT - 686.21 AC ±
WELL 16HU
TUG HILL OPERATING**

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

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

NAD 83 GRID NORTH



1884 1918
1906 1951
1907 1952
1908 1955
1910 1956
1911 1957
1912

1935 2015
1947 2016
1948 2303
1962 2304
1963 2305
1967 2306
1968 2307
1969 2323

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 09°03' W	60.21'
L2	N 12°48' W	1575.29'
L3	S 12°07' E	1606.38'

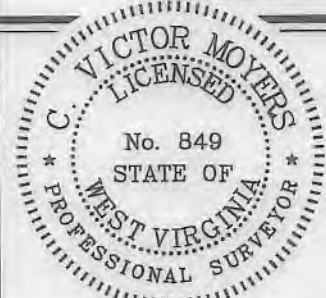
CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	89.53'	655.86'	S 39°11' E	89.46'
C2	24.96'	70.38'	S 53°20' E	24.83'
C3	7.85'	5.86'	N 77°22' E	7.28'
C4	11.06'	21.41'	N 10°51' E	10.94'
C5	33.70'	173.96'	N 10°57' W	33.65'
C6	131.69'	1222.87'	N 20°28' W	131.63'
C7	337.45'	5191.78'	N 25°13' W	337.39'
C8	305.85'	9751.84'	N 27°50' W	305.84'



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

LEGEND	
UNIT BOUNDARY	
LEASED TRACTS INSIDE	
UNIT BOUNDARY	
SURFACE LINE	
PROPOSED UTICA	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
PROPOSED FIRST TAKE POINT	• FTP
PROPOSED LAST TAKE POINT	• LTP
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 8654P16HUR4.dwg
HEAVEN HILL 3N-16HU REV6
DATE JUNE 20, 2019
REVISED 10/23/19, 03/25/20, 07/08/20
OPERATORS WELL NO. HEAVEN HILL 3N-16HU
API WELL NO. 47 - 051 - 02307
NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
H6A

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

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UTICA UNIT - 686.21 AC ±
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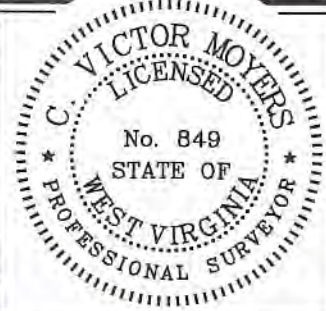


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sllw.com

Table with columns: No., Lease Name or No., Tract, Parcel, Grantor, Lessor, etc., Deed Book/Page. Contains lease details for various tracts and parcels.

Table with columns: No., Lease Name or No., Tract, Parcel, Grantor, Lessor, etc., Deed Book/Page. Continuation of lease details from the previous table.

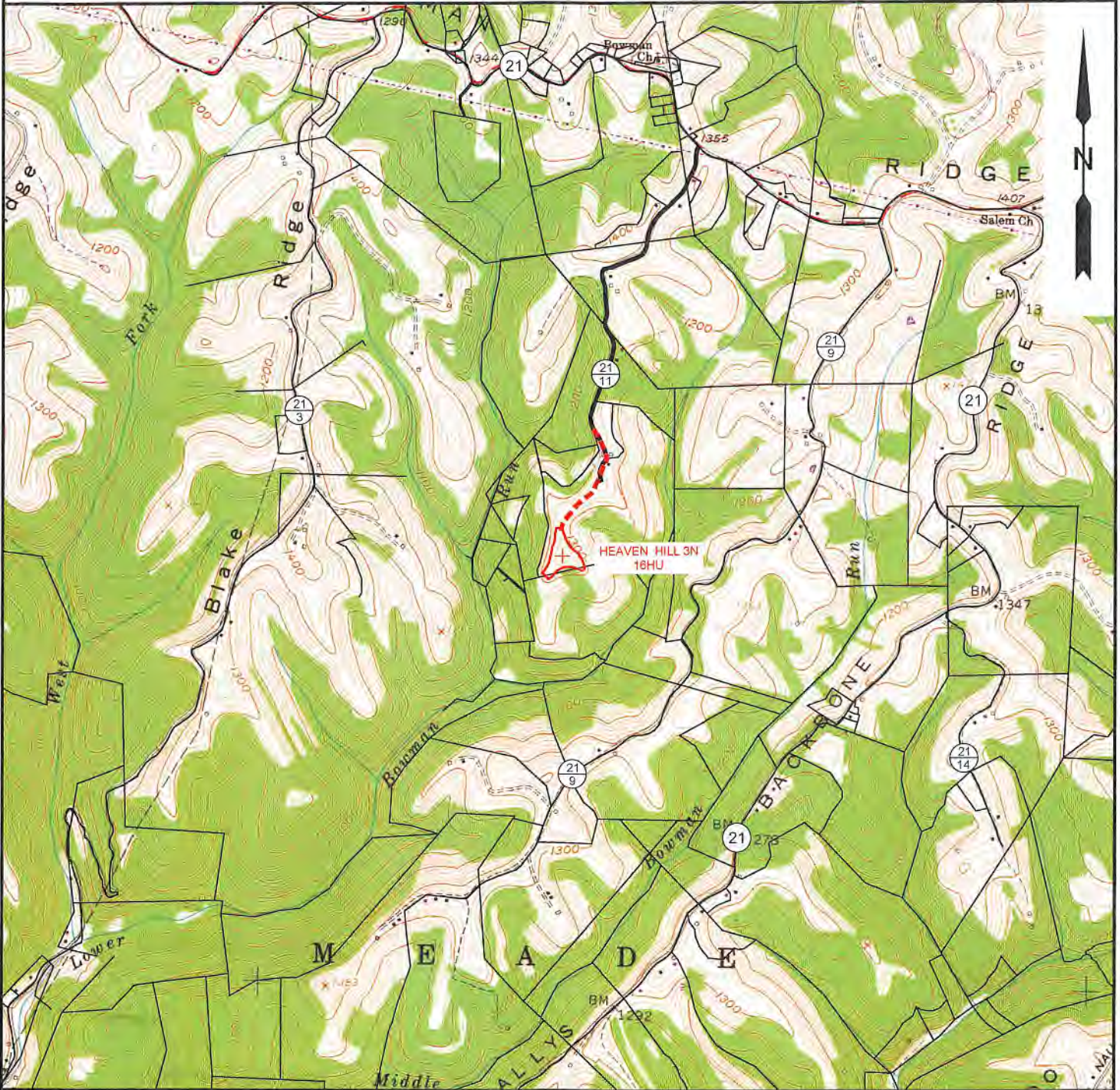
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DIANNA STAMPER
CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME PERMIT

PROPOSED HEAVEN HILL 3N - 16HU



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		DATE	SCALE
K.G.M.		06/21/2019	1" - 2000'



TUG HILL
OPERATING