

**HEAVEN HILL 3N LEASE
UTICA UNIT - 686.21 AC±
WELL 15HU
TUG HILL OPERATING**

10,692' B.H.

7,512' T.H.

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. 478,865.67 | E. 1,633,247.73 |
| NAD'83 GEO. | LAT-(N) 39.808615 | LONG-(W) 80.693408 |
| NAD'83 UTM (M) | N. 4,406,560.68 | E. 526,243.55 |
| LANDING POINT | | |
| NAD'83 S.P.C.(FT) | N. 477,155.2 | E. 1,633,210.9 |
| NAD'83 GEO. | LAT-(N) 39.803918 | LONG-(W) 80.693458 |
| NAD'83 UTM (M) | N. 4,406,039.4 | E. 526,241.0 |
| BOTTOM HOLE | | |
| NAD'83 S.P.C.(FT) | N. 482,808.2 | E. 1,630,118.8 |
| NAD'83 GEO. | LAT-(N) 39.819323 | LONG-(W) 80.704733 |
| NAD'83 UTM (M) | N. 4,407,745.8 | E. 525,270.2 |

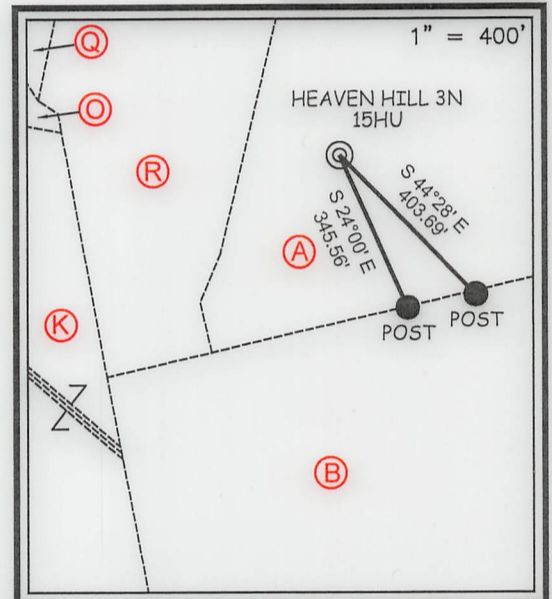
T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"

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-15HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF EXISTING WELLS
HEAVEN HILL 2-6HU (47-051-01910),
HEAVEN HILL 3-6HU (47-051-01968),
HEAVEN HILL 3-7HU (47-051-01969),
HEAVEN HILL 3-8HU (47-051-01967),
TEN HIGH 1S-14HU (47-051-01966),
TEN HIGH 1N-11HU (47-051-01960),
TEN HIGH 1N-12HU (47-051-01961),
HEAVEN HILL 3N-10HU (47-051-02016) & PROPOSED HEAVEN HILL 3N-16HU.

| 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 | LARRY LEE CONKLE | 9-7-22 | 12.00 |
| D | LARRY LEE CONKLE | 9-7-24 | 139.79 |
| E | BRENDA J. WHETZEL (LIFE ESTATE) | 9-7-23 | 36.00 |
| F | BRENDA J. WHETZEL (LIFE ESTATE) | 9-11-7 | 82.858 |
| G | WILLIAM F. & JULIE A. KERNS | 9-11-6.2 | 46.47 |
| H | BRENDA J. WHETZEL (LIFE ESTATE) | 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 | MURRAY ENERGY, LLC | 9-7-2 | 116.12 |
| M | ANDREW C. WHITLATCH, ET UX | NOT ASSD. | 16' X 32P |
| N | KEVIN E. MCGILTON | 9-7-17 | 5.12 |
| O | ANDREW C. WHITLATCH, ET UX | NOT ASSD. | 2.75 |
| P | MICHAEL J. RINE, ET UX | 9-7-1 | 107.46 |
| Q | KEVIN E. MCGILTON | 9-7-16 | 8.00 |
| R | ANDREW C. WHITLATCH, ET UX | 9-7-31 | 16.53 |
| S | ANDREW C. WHITLATCH, ET UX | 9-7-15 | 7.54 |
| T | ARNIE GOODNIGHT, ET UX | 9-7-14 | 39.55 |
| U | XCL MIDSTREAM, LLC | 9-7-4 | 78.95 |
| V | CHARLES R. JR. & ANNA MARIE HAGEDORN | 9-7-3 | 202.163 |
| W | CHARLES R. JR. & ANNA MARIE HAGEDORN | 9-7-3.1 | 4.579 |
| X | CINDY S. & ROBERT L. FISH | 9-7-3.2 | 0.911 |
| Y | ARNIE GOODNIGHT, ET UX | 9-7-5 | 62.18 |
| Z | TERRI L. & HARIKIA SAMPSON | 9-5-1 | 111.71 |
| AA | BRADEN & SARAH SAMPSON | 9-5-1.1 | 4.564 |
| BB | XCL MIDSTREAM, LLC | 9-5-3 | 85.26 |
| CC | MURRAY ENERGY, LLC | 9-5-4.1 | 22.775 |
| DD | 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
slsvw.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.
677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 26, 20 19
REVISED 10/23/19, 03/25/20, 07/08/20, 5/24/22
OPERATORS WELL NO. HEAVEN HILL 3N-15HU
API WELL NO. 47 - 051 - 02452
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P15HUR5.dwg
HEAVEN HILL 3N-15HU REV7
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 INJECTION ___ LIQUID 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 - SEE ADDITIONAL SHEETS ACREAGE 72.82±
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 POINT PLEASANT ESTIMATED DEPTH TVD: 11,907' / TMD: 19,094'

COUNTY NAME PERMIT

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

07/01/2022

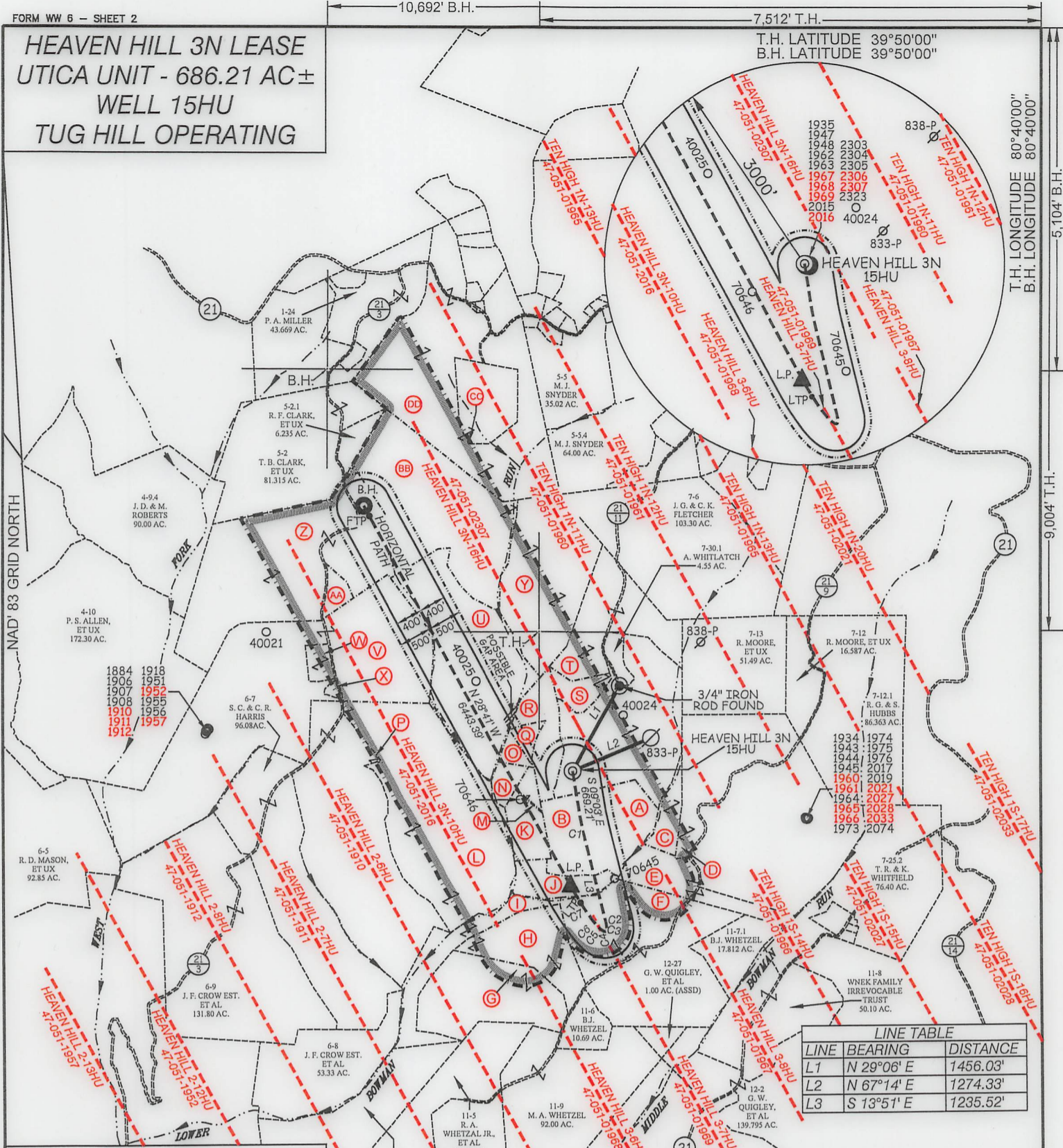
**HEAVEN HILL 3N LEASE
UTICA UNIT - 686.21 AC±
WELL 15HU
TUG HILL OPERATING**

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

5,104' B.H.

9,004' T.H.

NAD'83 GRID NORTH



LINE TABLE

| LINE | BEARING | DISTANCE |
|------|------------|----------|
| L1 | N 29°06' E | 1456.03' |
| L2 | N 67°14' E | 1274.33' |
| L3 | S 13°51' E | 1235.52' |

| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
|-------|------------|----------|---------------|--------------|
| C1 | 403.19' | 6238.53' | S 12°54' E | 403.12' |
| C2 | 85.31' | 458.58' | S 09°14' E | 85.19' |
| C3 | 52.91' | 62.09' | S 15°40' W | 51.33' |
| C4 | 35.53' | 33.56' | N 87°32' W | 33.89' |
| C5 | 86.84' | 275.92' | N 52°15' W | 86.48' |
| C6 | 175.43' | 1300.48' | N 40°30' W | 175.30' |
| C7 | 580.12' | 4017.47' | N 32°31' W | 579.62' |



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

P.S. 677 *Gregory A. Smith*



(+) 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
- PROPOSED LAST TAKE POINT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

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

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 478,865.67 | E. 1,633,247.73 |
| NAD'83 GEO. | LAT-(N) 39.809615 | LONG-(W) 80.693408 |
| NAD'83 UTM (M) | N. 4,406,560.68 | E. 526,243.55 |

LANDING POINT

| | | |
|-------------------|-------------------|--------------------|
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BOTTOM HOLE

| | | |
|-------------------|-------------------|--------------------|
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SCALE 1" = 2000' FILE NO. 8654P15HUR5.dwg
HEAVEN HILL 3-15HU REV7
DATE AUGUST 26, 2019
REVISED 10/23/19, 03/25/20, 07/08/20, 5/24/22
OPERATORS WELL NO. HEAVEN HILL 3N-15HU
API WELL NO. 47-051-02452
STATE COUNTY PERMIT

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



COUNTY NAME PERMIT

07/01/2022

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

HEAVEN HILL 3N LEASE
 UTICA UNIT - 686.21 AC±
 WELL 15HU
 TUG HILL OPERATING



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 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slswv.com

| LEASE NAME OR NO. | PARCEL | TAG | LESSOR, GRANTOR, ETC | DEED BOOK | PAGE |
|-------------------|----------|-----|---|-----------|------|
| 10*15557 | 9-7-30 | A | RICKY L WHITLATCH ET AL | 780 | 226 |
| 10*15557 | 9-7-21 | B | RICKY L WHITLATCH ET AL | 780 | 226 |
| 10*15486 | 9-7-22 | C | RICHARD NEAL NORRIS AND CAROL NORRIS, ET AL | 905 | 430 |
| 10*15662 | 9-7-24 | D | LARRY LEE CONKLE, ET AL | 863 | 354 |
| 10*15746 | 9-7-23 | E | BRUCE D SCHURR, ET AL | 921 | 478 |
| 10*15746 | 9-11-7 | F | BRUCE D SCHURR, ET AL | 921 | 478 |
| 10*15560 | 9-11-6.2 | G | WILLIAM F KERNS AND JULIE A KERNS, ET AL | 677 | 561 |
| 10*15669 | 9-11-6.1 | H | EMMA CATHERINE ANDERSON, ET AL | 861 | 586 |
| 10*15667 | 9-7-19 | I | KEVIN E MCGILTON AND TERESA E MCGILTON | 850 | 351 |
| 10*15667 | 9-7-20 | J | KEVIN E MCGILTON AND TERESA E MCGILTON, ET AL | 850 | 351 |
| 10*15667 | 9-7-18 | K | KEVIN E MCGILTON AND TERESA E MCGILTON, ET AL | 850 | 351 |
| 10*16471 | 9-7-2 | L | CNX GAS COMPANY LLC | 905 | 155 |
| 10*15557 | NOT ASSD | M | RICKY L WHITLATCH ET AL | 780 | 226 |
| 10*15667 | 9-7-17 | N | KEVIN E MCGILTON AND TERESA E MCGILTON, ET AL | 850 | 351 |
| 10*15557 | NOT ASSD | O | RICKY L WHITLATCH ET AL | 780 | 226 |
| 10*15665 | 9-7-1 | P | MICHAEL J RINE ET UX | 668 | 147 |
| 10*15667 | 9-7-16 | Q | KEVIN E MCGILTON AND TERESA E MCGILTON | 850 | 351 |
| 10*15557 | 9-7-31 | R | RICKY L WHITLATCH ET AL | 780 | 226 |
| 10*15557 | 9-7-15 | S | RICKY L WHITLATCH ET AL | 780 | 226 |
| 10*15558 | 9-7-14 | T | ARNIE AND BOBBIE B GOODNIGHT | 777 | 59 |
| 10*21593 | 9-7-4 | U | HELEN R. PAYNE | 791 | 38 |
| 10*15521 | 9-7-3 | V | VENANGO 21ST CENTURY ENERGY INC, ET AL | 722 | 281 |
| 10*15608 | 9-7-3 | V | CHARLES R HAGEDORN JR | 816 | 423 |
| 10*15521 | 9-7-3.1 | W | VENANGO 21ST CENTURY ENERGY INC, ET AL | 722 | 281 |
| 10*16923 | 9-7-3.2 | X | CHARLES R HAGEDORN JR ET UX | 689 | 177 |
| 10*15558 | 9-7-5 | Y | ARNIE AND BOBBIE B GOODNIGHT | 777 | 59 |
| 10*21585 | 9-5-1 | Z | TERRY L AND HARIKLIA HEIDI SAMPSON | 852 | 351 |
| 10*21585 | 9-5-1.1 | AA | TERRY L AND HARIKLIA HEIDI SAMPSON | 852 | 351 |
| 10*21588 | 9-5-3 | BB | LAWRENCE ALLEN WAYT, ET AL | 687 | 233 |
| 10*15482 | 9-5-4.1 | CC | SUSAN NELSON, ET AL | 908 | 203 |
| 10*15481 | 9-5-4 | DD | DEAN P RIGBY AND SUSAN RIGBY, ET AL | 908 | 197 |

FILE NO. 8654P15HUR5.dwg
 HEAVEN HILL 3N-15HU REV7

DATE AUGUST 26, 20 19

REVISED 10/23/19, 03/25/20, 07/08/20, 05/24/22

OPERATORS WELL NO. HEAVEN HILL 3N-15HU

API WELL NO. 47 — 051 — 02452
 STATE COUNTY PERMIT



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



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 677

Gregory A. Smith

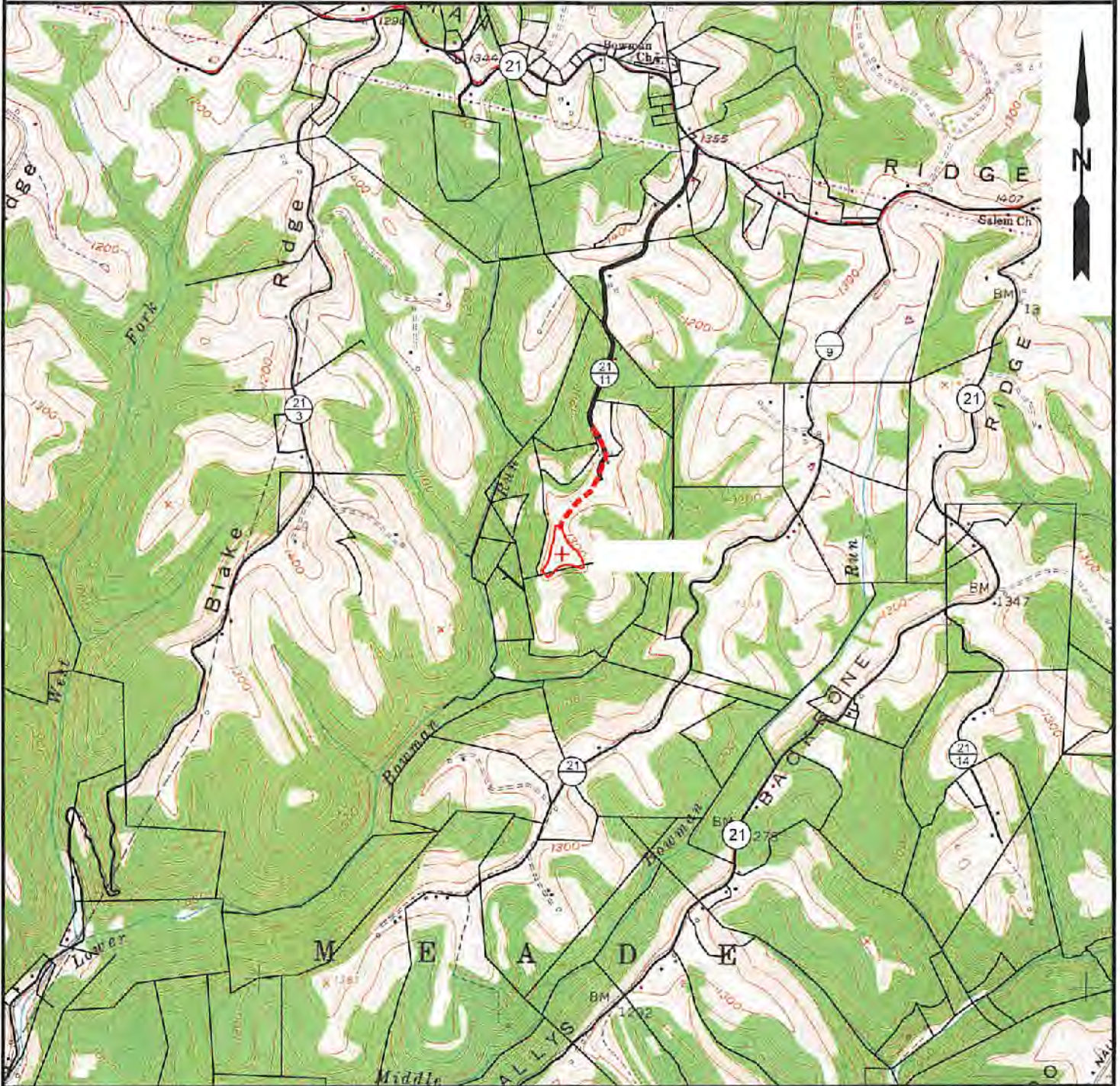
WELL OPERATOR TUG HILL OPERATING, LLC
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

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

COUNTY NAME

PERMIT

PROPOSED HEAVEN HILL 3N - 15HU



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.



SLS
Land & Energy Development
Solutions from the ground up.
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www.slsurveys.com

| | | | |
|------------------|----------|-------------------------|------------|
| TOPO SECTION: | | OPERATOR: | |
| GLEN EASTON 7.5' | | PREPARED FOR: | |
| COUNTY | DISTRICT | TUG HILL OPERATING, LLC | |
| MARSHALL | MEADE | 380 SOUTHPOINTE BLVD | |
| DRAWN BY | JOB NO. | SUITE 200 | |
| K.G.M. | 8654 | CANONSBURG, PA 15317 | |
| | | DATE | SCALE |
| | | 06/21/2019 | 1" = 2000' |



**TUG HILL
OPERATING**

07/01/2022