

**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. 478,865.94	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"
3,843' B.H.



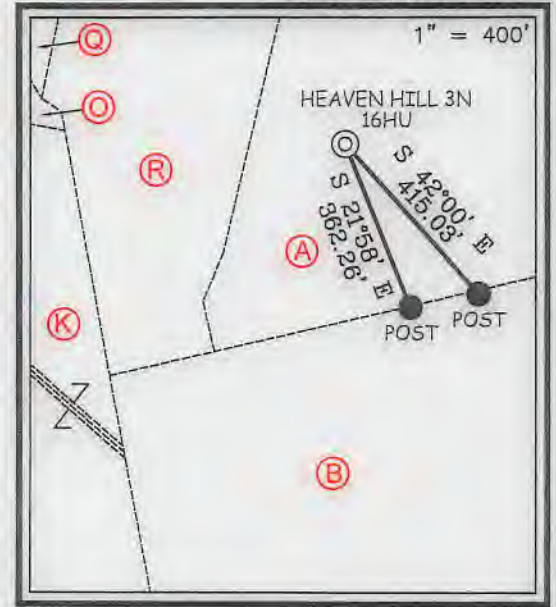
NOTES ON SURVEY

- 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	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. & HARIKLI 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

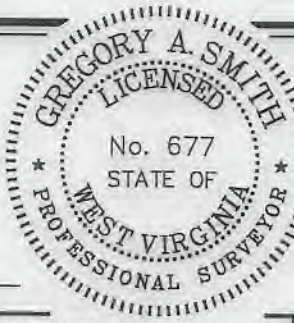
T.H.

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
 slsw.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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 20, 20 19
 REVISED 10/23/19, 03/25/20, 07/08/20, 05/16/22
 OPERATORS WELL NO. HEAVEN HILL 3N-16HU
 API WELL NO. 47 - 051 - 02453
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P16HUR5.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 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 - SEE ADDITIONAL SHEETS ACREAGE 72.82±

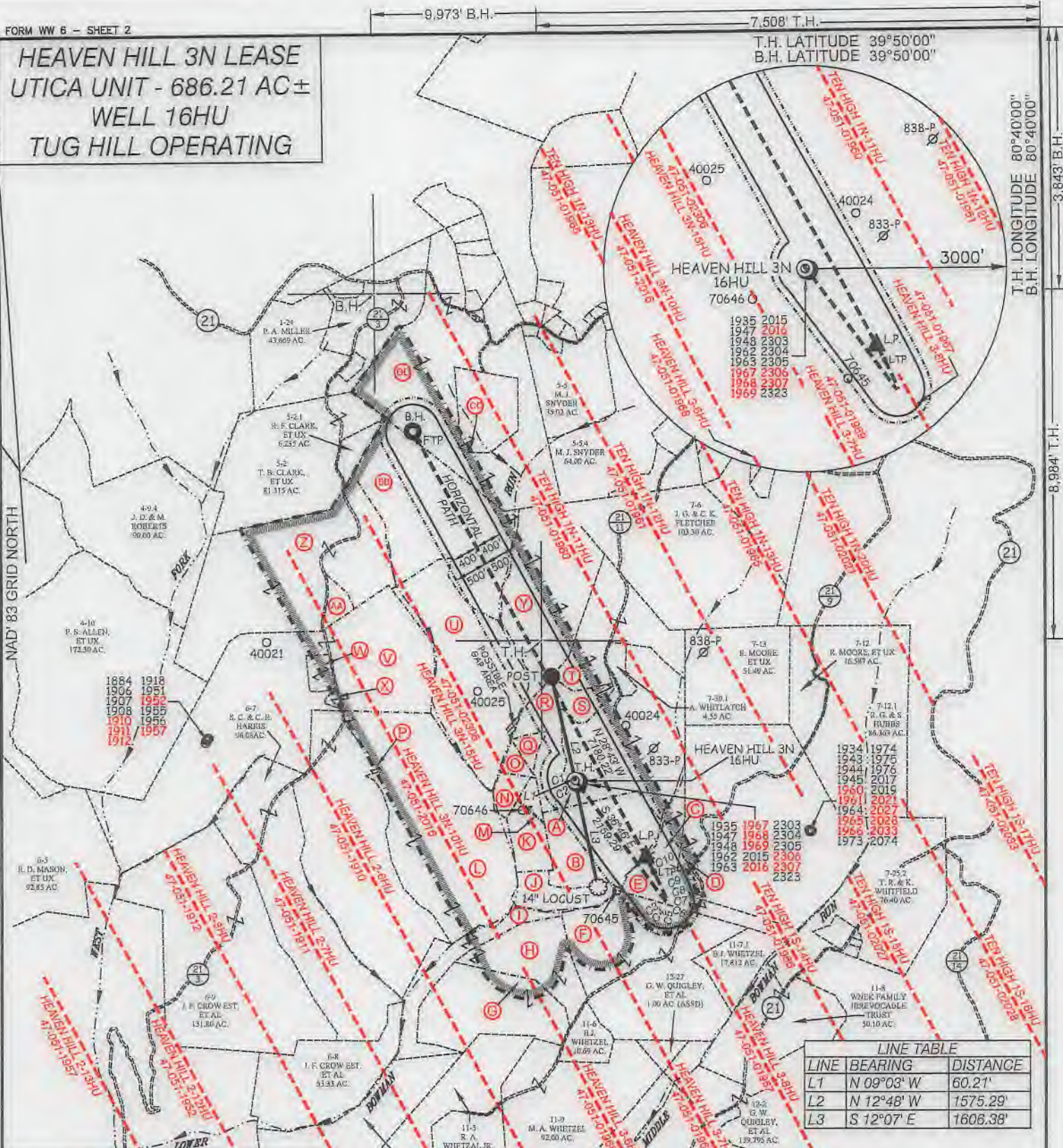
PROPOSED WORK: LEASE NO. SEE ADDITIONAL SHEETS
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION POINT PLEASANT
 ESTIMATED DEPTH TVD: 11,923' / TMD: 19,738'

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

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



SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.2952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295
slsww.com

P.S. 677 *Gregory A. Smith*

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 09°03' W	60.21'
L2	N 12°48' W	1575.29'
L3	S 12°07' E	1608.38'

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'

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

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

SCALE 1" = 2000' FILE NO. 8654P16HUR5.dwg
HEAVEN HILL 3N-16HU REV 6

DATE JUNE 20, 2019
REVISED 10/23/19, 03/25/20, 07/08/20, 05/24/22

OPERATORS WELL NO. HEAVEN HILL 3N-16HU
API WELL NO. 47-051-02453
STATE COUNTY PERMIT

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

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

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

COUNTY TIME PERMIT

07/01/2022

HEAVEN HILL 3N LEASE
 UTICA UNIT - 686.21 AC ±
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 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

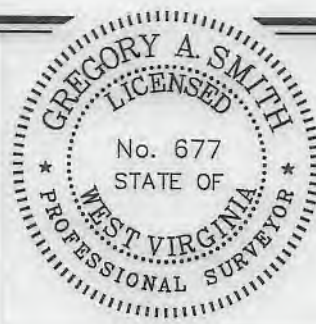
FILE NO. 8654P16HUR5.dwg
 HEAVEN HILL 3N-16HU REV6

DATE JUNE 20, 20 19

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OPERATORS WELL NO. HEAVEN HILL 3N-16HU

API WELL NO. 47 — 051 — 02453
 STATE COUNTY PERMIT



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



P.S. 677

Gregory A. Smith

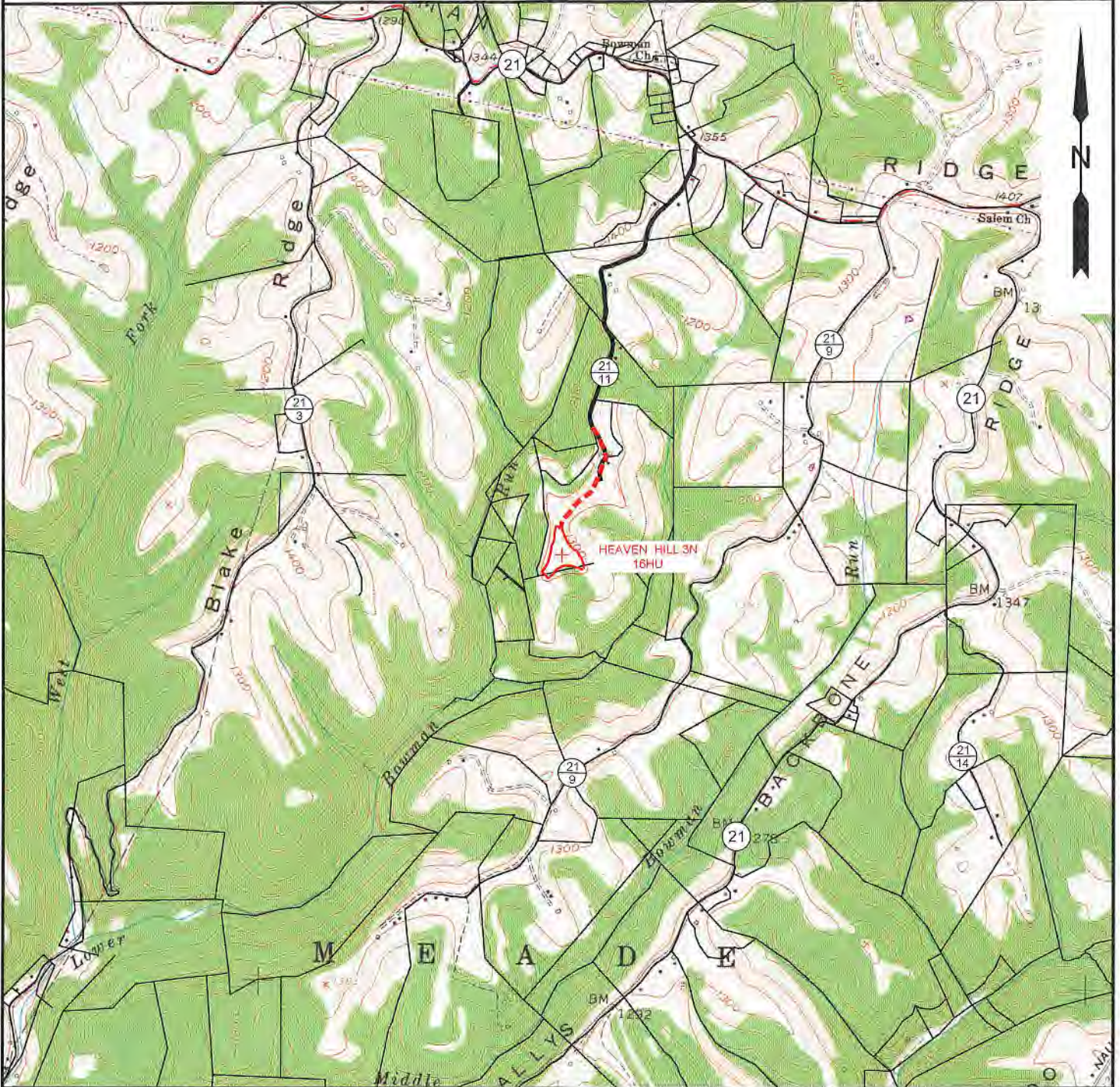
COUNTY NAME

PERMIT

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

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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Solutions from the ground up.
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www.slssurveys.com

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

07/01/2022