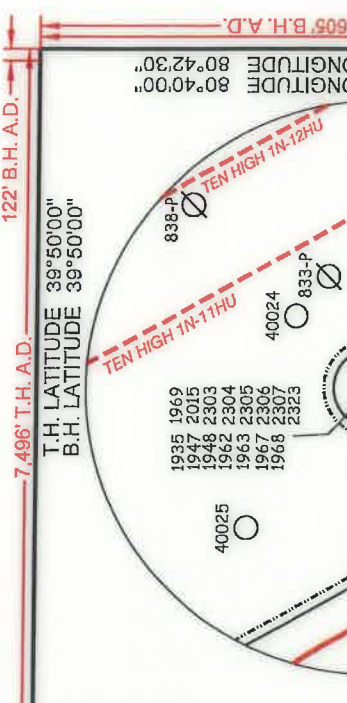


**HEAVEN HILL 3N LEASE  
UTICA UNIT - 678.39 AC ±  
WELL 10HU  
TUG HILL OPERATING**

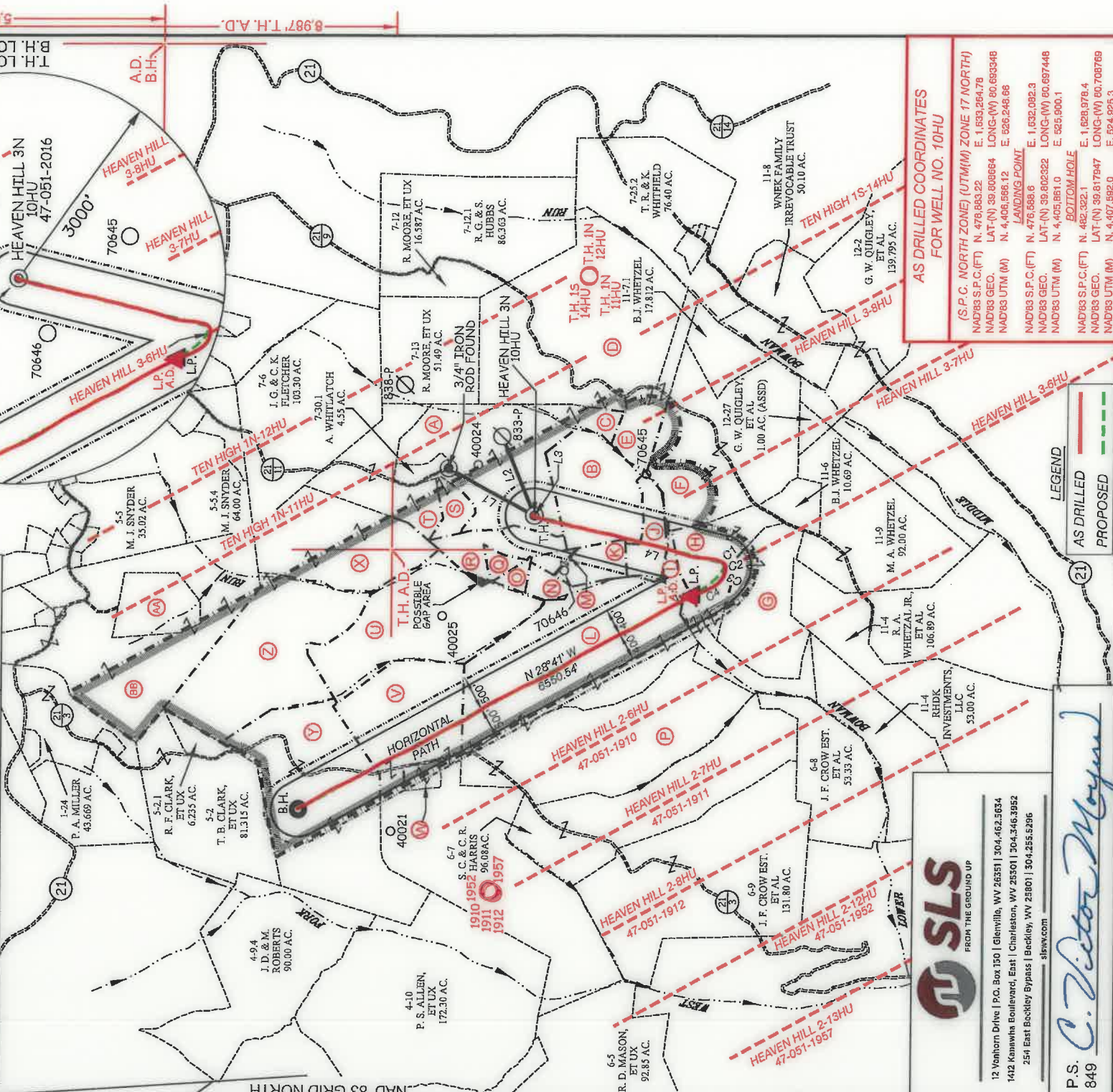
LINE	BEARING	DISTANCE
L1	N 28°51' E	1432.41'
L2	N 67°40' E	1251.85'
L3	N 00°58' E	20.95'
L4	S 13°58' W	2814.92'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	64.36'	74.74'	S 34°13' W	62.39'
C2	50.49'	79.34'	S 86°14' W	49.64'
C3	135.53'	313.67'	N 58°33' W	134.48'
C4	451.38'	1439.67'	N 36°45' W	449.53'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	64.36'	74.74'	S 34°13' W	62.39'
C2	50.49'	79.34'	S 86°14' W	49.64'
C3	135.53'	313.67'	N 58°33' W	134.48'
C4	451.38'	1439.67'	N 36°45' W	449.53'



T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°50'00"  
T.H. LONGITUDE 80°42'30"  
B.H. LONGITUDE 80°42'30"  
A.D. B.H.  
7.496' T.H. A.D.  
122' B.H. A.D.  
5.605 B.H. A.D.  
8.987 T.H. A.D.



**SLS**  
FROM THE GROUND UP

12 Venhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5654  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slevs.com

P.S. 849  
*C. Victor Moyers*

**AS DRILLED COORDINATES FOR WELL NO. 10HU**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
NAD83 S.P.C.(F) N. 478,883.22 E. 1,633,264.78  
NAD83 GEO. LAT(-N) 39.808664 LONG(-W) 80.693348  
NAD83 UTM (M) N. 4,406,566.12 E. 526,248.66

**LANDING POINT**  
NAD83 S.P.C.(F) N. 476,588.6 E. 1,632,082.9  
NAD83 GEO. LAT(-N) 39.802222 LONG(-W) 80.697448  
NAD83 UTM (M) N. 4,405,961.0 E. 525,900.1

**BOTTOM HOLE**  
NAD83 S.P.C.(F) N. 482,392.1 E. 1,628,978.4  
NAD83 GEO. LAT(-N) 39.817947 LONG(-W) 80.708769  
NAD83 UTM (M) N. 4,407,592.0 E. 524,926.3

**LEGEND**  
AS DRILLED (Red dashed line)  
PROPOSED (Green dashed line)

**C. VICTOR MOYERS**  
No. 849  
STATE OF WEST VIRGINIA  
PROFESSIONAL SURVEYOR

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

**LEGEND**  
UNIT BOUNDARY (Dashed line)  
LEASED TRACTS INSIDE SURFACE LINE (Dashed line)  
PROPOSED UTICA WELL LATERAL (Red dashed line)  
400' OFFSET LINE (Red dashed line)  
500' OFFSET LINE (Red dashed line)  
TIE LINE (Dashed line)  
CREEK (Dashed line)  
ROAD (Dashed line)  
COUNTY ROUTE (Dashed line)  
PROPOSED WELL (Red dashed line)  
PERMITTED WELL (Red dashed line)  
SURFACE OWNER (See Table) (Red dashed line)  
LEASE # (See Additional Sheets) (Red dashed line)

**AS DRILLED COORDINATES FOR WELL NO. 10HU**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
NAD83 S.P.C.(F) N. 478,883.22 E. 1,633,264.78  
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NAD83 UTM (M) N. 4,407,592.0 E. 524,926.3

**LEGEND**  
AS DRILLED (Red dashed line)  
PROPOSED (Green dashed line)

**SCALE** 1" = 2000'  
FILE NO. 8654P10HUADR.dwg

DATE MAY 26, 2020  
REVISED JUNE 12, 2020

OPERATORS WELL NO. HEAVEN HILL 3N-10HU  
API WELL NO. 47-051-02016  
NO. STATE COUNTY PERMIT

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

**DESIGNATED AGENT** DIANNA STAMPER  
**ADDRESS** 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

**COUNTY NAME** PERMIT

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



**HEAVEN HILL 3N LEASE  
UTICA UNIT - 678.39 AC ±  
WELL 10HU  
TUG HILL OPERATING**

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. & HARIKLIJA 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

TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
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C	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-22	12.00
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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
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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
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**NOTES ON SURVEY**

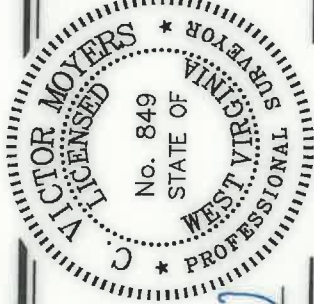
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF HEAVEN HILL 3-10HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF APIS 47-051-1910, 47-051-1911, 47-051-1912, 47-051-1952, 47-051-1957 AND PROPOSED WELLS HEAVEN HILL 3-6HU, HEAVEN HILL 3-7HU, HEAVEN HILL 3-8HU, TEN HIGH 1S-14HU, TEN HIGH 1N-17HU, AND TEN HIGH 1N-12HU.
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 504.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
sllwv.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 MAY 26, 20 20  
REVISED JUNE 12, 20 20  
OPERATORS WELL NO. HEAVEN HILL 3N-10HU  
API WELL NO. 47-051-02016

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P10HUADR.dwg  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

WELL TYPE: OIL  GAS  INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION GROUND = 1,336.70'  
PROPOSED = 1,326.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)

DISTRICT MEADE COUNTY MARSHALL  
SURFACE OWNER RICKY L. WHITLATCH

ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE ADDITIONAL SHEETS

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: 11,898' / TMD: 19,300'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 CT CORPORATION SYSTEM  
FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD  
CHARLESTON, WV 25313

7,496' T.H.A.D.

122' B.H.A.D.

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

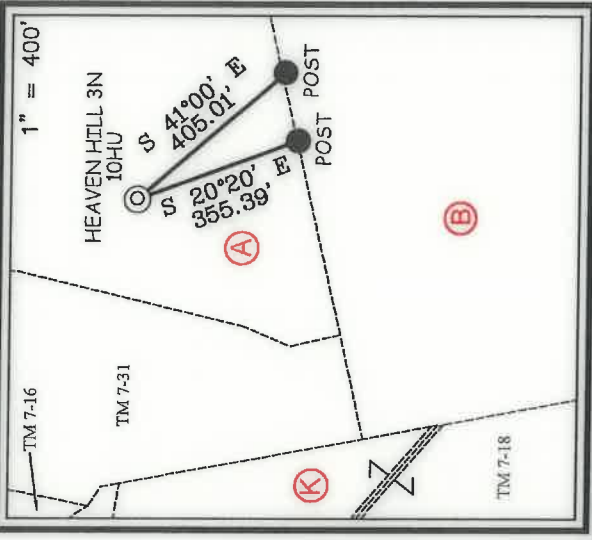
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
NAD'83 S.P.C.(FT) N. 478,883.22 E. 1,639,264.78  
NAD'83 GEO. LAT-(N) 39.808664 LONG-(W) 80.698348  
NAD'83 UTM (M) N. 4,406,566.12 E. 526,248.66  
LANDING POINT  
NAD'83 S.P.C.(FT) N. 476,547.9 E. 1,632,117.7  
NAD'83 GEO. LAT-(N) 39.802211 LONG-(W) 80.697320  
NAD'83 UTM (M) N. 4,405,848.8 E. 525,911.1  
BOTTOM HOLE  
NAD'83 S.P.C.(FT) N. 482,294.6 E. 1,628,973.6  
NAD'83 GEO. LAT-(N) 39.817871 LONG-(W) 80.708785  
NAD'83 UTM (M) N. 4,407,583.6 E. 524,924.0

B.H. A.D.

8,987' T.H.A.D.

T.H. A.D.

**REFERENCES**



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



COUNTY NAME PERMIT



HEAVEN HILL 3N LEASE  
 UTICA UNIT - 678.39 AC ±  
 WELL 10HU  
 TUG HILL OPERATING



12 Vanhorn Drive | P.O. Box 150 | Charleston, WV 26311 | 304.462.4634  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 slswv.com

No.	Lessee Name or No.	Trk	Parcel	Deced Book/Page
1	10*1557	A	9-7-24	780 236
2	10*1557	B	9-7-24	780 236
3	10*1557	C	9-7-24	780 236
4	10*1557	D	9-7-24	780 236
5	10*1557	E	9-7-24	780 236
6	10*1557	F	9-7-24	780 236
7	10*1557	G	9-7-24	780 236
8	10*1557	H	9-7-24	780 236
9	10*1557	I	9-7-24	780 236
10	10*1557	J	9-7-24	780 236
11	10*1557	K	9-7-24	780 236
12	10*1557	L	9-7-24	780 236
13	10*1557	M	9-7-24	780 236
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20	10*1557	T	9-7-24	780 236
21	10*1557	U	9-7-24	780 236
22	10*1557	V	9-7-24	780 236
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26	10*1557	Z	9-7-24	780 236
27	10*1557	AA	9-7-24	780 236
28	10*1557	AB	9-7-24	780 236
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124	10*1557	DT	9-7-24	780 236
125	10*1557	DU	9-7-24	780 236
126	10*1557	DV	9-7-24	780 236
127	10*1557	DW	9-7-24	780 236

No.	Owner Name or No.	Trk	Parcel	Deced Book/Page
128	10*1630	C	9-7-22	905 524
129	10*1630	D	9-7-22	905 524
130	10*1630	E	9-7-22	905 524
131	10*1630	F	9-7-22	905 524
132	10*1630	G	9-7-22	905 524
133	10*1630	H	9-7-22	905 524
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144	10*1630	S	9-7-22	905 524
145	10*1630	T	9-7-22	905 524
146	10*1630	U	9-7-22	905 524
147	10*1630	V	9-7-22	905 524
148	10*1630	W	9-7-22	905 524
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150	10*1630	Y	9-7-22	905 524
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154	10*1630	AC	9-7-22	905 524
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156	10*1630	AE	9-7-22	905 524
157	10*1630	AF	9-7-22	905 524
158	10*1630	AG	9-7-22	905 524
159	10*1630	AH	9-7-22	905 524
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221	10*1630	CR	9-7-22	905 524
222	10*1630	CS	9-7-22	905 524
223	10			



HEAVEN HILL 3N LEASE  
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 WELL 10HU  
 TUG HILL OPERATING



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.246.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.9296  
 slswv.com

No.	Lessee Name or No.	Tag	Parcel	Oil & Gas Royalty Owner - Continued	Deed Book/Page
254	10*16671	L	9-2-2	OMI GAS COMPANY LLC	905 185
255	10*15557	M	9-7-1	BOCKY L WHITMACH ET AL	780 216
256	10*15698	N	9-7-17	ROBERT A EDWARDS AND SHERREN EDGE	900 363
257	10*15720	N	9-7-17	KAREN L GREATHOUSE AND THOMAS GREATHOUSE	905 495
258	10*15721	N	9-7-17	TINA L EDGE MONTI AND DOMINIC MONTI	905 454
259	10*16000	N	9-7-17	SHARON HINEFARM WAY & DANIEL G WAY	905 460
260	10*16008	N	9-7-17	ROSEMARY PARKINS AND STEPHEN PARKINS	905 462
261	10*16051	N	9-7-17	DOMINA JEAN SHUBERT AND DAVID SHUBERT	905 466
262	10*16052	N	9-7-17	DAVID THIRMAN AND JOY ANN THIRMAN	905 488
263	10*16080	N	9-7-17	DAVID THIRMAN AND JOY ANN THIRMAN	905 488
264	10*16413	N	9-7-17	ELIZABETH ANN KEZER AND PAUL E KEZER	905 481
265	10*16413	N	9-7-17	RONALD H EDGE JR	905 312
266	10*16652	N	9-7-17	DAVID R DUBREIN AND KRISTA L DUBREIN	929 314
267	10*17602	N	9-7-17	AS LITERA DAVID WHITE ESQ	850 351
268	10*18557	O	9-7-17	KEVIN E MCGONIGLE ET AL	780 216
269	10*15557	O	9-7-17	BOCKY L WHITMACH ET AL	668 347
270	10*15685	P	9-7-1	MICHAEL BRINE ET UX	850 351
271	10*16857	R	9-7-15	KEVIN E MCGONIGLE ET UX	780 216
272	10*16857	R	9-7-15	BOCKY WHITMACH ET AL	780 216
273	10*15557	S	9-7-18	GOODRICH ANNIE ET UX	751 311
274	10*15557	S	9-7-18	BOCKY WHITMACH ET AL	751 311
275	10*15521	U	9-2-4	PATHE HELEN R	888 618
276	10*15521	V	9-2-3	VENANGO 21ST CENTURY ENERGY INC	908 541
277	10*02610731	V	9-2-3	PATRIOT RESTORATIONS LLC	878 330
278	10*02610732	V	9-2-3	TRENERGY HOLDINGS LLC	816 423
279	10*02610733	V	9-2-3	CHARLES R HAYDEN JR	697 170
280	10*15686	V	9-2-3	VENANGO 21ST CENTURY ENERGY INC	697 170
281	10*16857	W	9-7-11	EMAL HAGEDORN	888 618
282	10*16857	W	9-7-11	CHARLES R HAGEDORN JR ET UX	888 618
283	10*02610731	W	9-2-3	TRENERGY HOLDINGS LLC	697 170
284	10*02610732	W	9-2-3	PATRIOT RESTORATIONS LLC	697 170
285	10*02610733	W	9-2-3	TRENERGY HOLDINGS LLC	697 170
286	10*15608	X	9-2-5	CHARLES R HAGEDORN JR	816 423
287	10*15608	X	9-2-5	SOCOOIGHT ARNE ET UX	777 59
288	10*15608	X	9-2-5	SAMPSON TERRY L ET UX	852 351
289	10*15608	X	9-2-5	WATTS LAWRENCE ALLEN - SFX	687 233
290	10*15608	X	9-2-5	LEON BEATRICE ANNE - SFX	687 230
291	10*15608	X	9-2-5	LEON BEATRICE ANNE - SFX	695 577
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No.	Lessee Name or No.	Tag	Parcel	Oil & Gas Royalty Owner - Continued	Deed Book/Page
379	10*17888	BB	9-5-4	MEDAS JACKSON	921 330
380	10*17888	BB	9-5-4	MARIE ANN JACKSON ROBBING GRAHAM	921 330
381	10*17888	BB	9-5-4	JOHN L LESTER	921 330
382	10*17888	BB	9-5-4	JAMES MICHAEL EDLI AND LUCILE D ZIEL	921 330
383	10*17888	BB	9-5-4	CHERYL BANKS KING	921 330
384	10*17888	BB	9-5-4	JOHN BIVACQUA AND PATRICIA A BIVACQUA	921 330
385	10*17888	BB	9-5-4	MICHAEL RANKIN	921 330
386	10*17888	BB	9-5-4	ROGER LYBELL AND KATHRYN LYBELL	921 330
387	10*17888	BB	9-5-4	JESSE ALLEN JACKSON AND ELAURETTE D JACKSON	921 330
388	10*17888	BB	9-5-4	JAMES ROMAN JACKSON AND BARBARA T BRODSKY	921 330
389	10*17888	BB	9-5-4	MATHEW P BRODSKY AND BARBARA T BRODSKY	921 330
390	10*17888	BB	9-5-4	JAMES ROMAN JACKSON	921 330
391	10*17888	BB	9-5-4	MARY CHRISTINE MCKENNA	921 330
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414	10*17888	BB	9-5-4	MARY CHRISTINE MCKENNA	921 330

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 WV Department of  
 Environmental Protection

COUNTY NAME \_\_\_\_\_ PERMIT \_\_\_\_\_

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

P.S. *C. Victor Moyers*  
 849

C. VICTOR MOYERS  
 LICENSED SURVEYOR  
 No. 849  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL

FILE NO. 8654P10HUADR.dwg

DATE MAY 26 , 20 20  
 REVISED JUNE 12 , 20 20

OPERATORS WELL NO. HEAVEN HILL 3N-10HU  
 API NO. 47 - 051 - 02016  
 WELL STATE COUNTY PERMIT

DESIGNATED AGENT 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

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