

AS-DRILLED	
<b>SURFACE HOLE</b>	
UTM NAD'83, ZONE 17 (METER)	N) 4,406,725.4
	E) 524,581.8
UTM NAD'83, ZONE 17 (FEET)	N) 14,457,731.6
	E) 1,721,065.6
<b>LANDING POINT</b>	
UTM NAD'83, ZONE 17 (METER)	N) 4,406,859.1
	E) 524,906.1
UTM NAD'83, ZONE 17 (FEET)	N) 14,458,170.2
	E) 1,722,129.3
<b>BOTTOM HOLE</b>	
UTM NAD'83, ZONE 17 (METER)	N) 4,404,700.1
	E) 526,146.8
UTM NAD'83, ZONE 17 (FEET)	N) 14,451,086.9
	E) 1,726,200.0

WELL TIE LINE TABLE	
T1	N 64°52' E 1663.1'
T2	S 71°28' E 918.2'

LEGEND	
	LEASED TRACTS
	INTERIOR MINERAL TRACTS
	SURFACE TRACTS
	HARD LEASE LINE
	UTICA LATERALS
	LEASE # (SEE PG 2)

- NOTES
- BORE PATH BASED ON GRID NORTH.
  - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
  - OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN JULY, 2016.
  - COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
  - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
  - ROYALTY OWNERSHIP PROVIDED BY TUG HILL OPERATING, LLC.
  - SURFACE OWNERSHIP WAS NOT ADDRESSED.
  - PLAT UPDATED TO SHOW AS-DRILLED PATH.
  - AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
  - TOP HOLE OR LATERAL OF HEAVEN HILL UNIT 2-6HU IS WITHIN 3000' OF THE FOLLOWING: HEAVEN HILL UNIT 2-7HU (47-051-01911), HEAVEN HILL UNIT 2-8HU (47-051-01912), HEAVEN HILL 2W-12HU (47-051-01952), HEAVEN HILL 2W-13HU (47-051-01957), HEAVEN HILL 3N-10HU (47-051-02016), HEAVEN HILL 3N-15HU (47-051-02016), HEAVEN HILL 3-6HU (47-051-01968), HEAVEN HILL 3-7HU (47-051-01969), KEITH STERN N-14HU (47-051-02252), KEITH STERN N-15HU (47-051-02241), KEITH STERN N-16HU (47-051-02242).

FILE NUMBER	163-697
DRAWING NUMBER	HHU2_WP_6HU
SCALE	1" = 1500'
MINIMUM DEGREE OF ACCURACY	1/2500
PROVEN SOURCE OF ELEVATION	SUBMETER MAPPING GRADE GPS

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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 849 *C. Victor Moyers*



WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET, SE  
CHARLESTON, WV 25304



DATE: OCTOBER 17, 2018 REVISED: SEPTEMBER 6, 2019  
OPERATORS WELL NO. Heaven Hill Unit 2-6HU As-Drilled

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
API WELL NO. 47-051-01910  
STATE COUNTY PERMIT

LOCATION ELEVATION 1331' WATERSHED (HUC 10) FISH CREEK  
DISTRICT MEADE COUNTY MARSHALL  
QUADRANGLE GLEN EASTON 7.5' LEASE NUMBER SEE ATTACHED PG 2 OF 2

SURFACE OWNER CHARLES R. HAGEDORN, JR., ET UX ACREAGE 203.074  
OIL & GAS ROYALTY OWNER CHARLES R. HAGEDORN, JR., ET AL LEASE ACREAGE 391.77 UNIT  
PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_  
PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) \_\_\_

TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD 11,784' TMD: 20,402'  
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
CT CORPORATION SYSTEM  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500  
FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD  
CHARLESTON, WV 25313

LONGITUDE 80° 24' 08" 8.467' 15.138' AS-DRILLED B.H. LONGITUDE (80° 40' 00")

ADDRESS 1330 SOUTH UNIVERSITY DRIVE, SUITE 200  
 MEET OPERATOR THE HILL OPERATING, LLC  
 TARGET FORMATION POINT BLEASANT

ADDRESS CHARLESTON, WV 25312  
 2400 D BIG LAGER ROAD  
 DESIGNATED AGENCY CT CORPORATION SYSTEM  
 DIAMIA STAMPER  
 ESTIMATED DEPTH 11' 11' 38", LWD: 50' 405,  
 BLUE & ABAWDON GREEN OUTS & RESULTS

PERMIT  
 COUNTY

BEFORE DATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY)

PROPOSED WORK: DRILL  COLLECT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  BLUE OFF OLD FORMATION  
 OIL & GAS PROPERTY OWNER CHARLES B. HAGEDORN, JR., ET AL LEASE ACREAGE 38.77 ACRES  
 SURFACE OWNER CHARLES B. HAGEDORN, JR., ET AL ACREAGE 303.70 AC

SQUARE FEET 1331, LEASE NUMBER SEE ATTACHED PG 2 OF 3  
 DISTRICT MEADE COUNTY MARSHALL

LOCATION ELEVATION 1331, WATERSHED (HUC ID) FISH CREEK  
 (IF GAS) PRODUCTION  STORAGE  DEEP  SHALLOW   
 MEET TYPE: OIL  GAS  FLUID INJECTION  WASTE DISPOSAL   
 STATE COUNTY PERMIT  
 47-021-01810  
 API MEET NO.

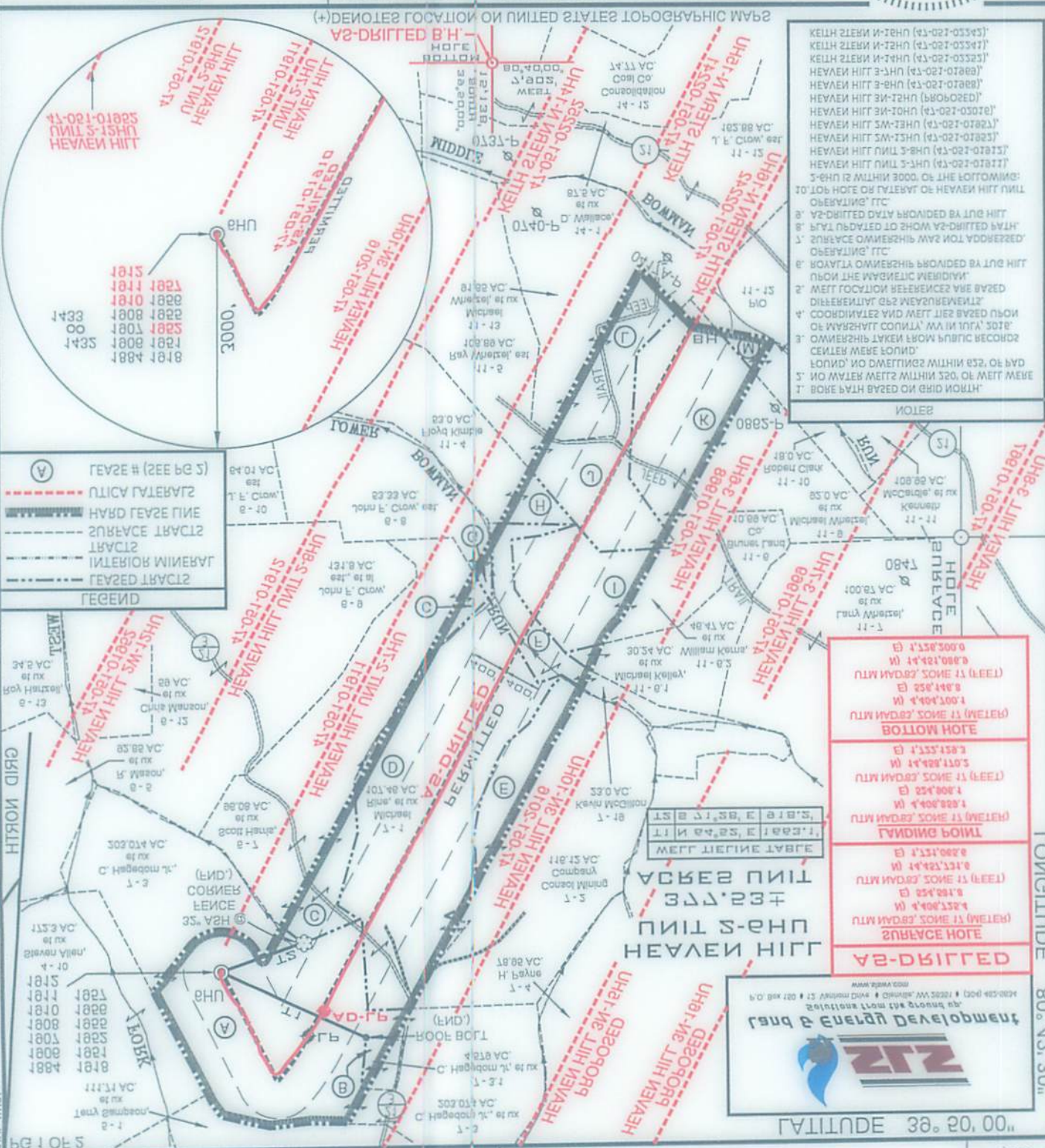
CHARLESTON, WV 25304  
 801 21TH STREET, SE  
 OFFICE OF OIL & GAS  
 MODEL

OPERATORS MEET NO: Heaven Hill Unit 3-2HU As-D-11169  
 DATE: OCTOBER 11, 2018 REVISED: SEPTEMBER 6, 2018

GRADE CBS  
 OF ELEVATION SUBMETER MAPPING  
 PROVEN SOURCE  
 OF ACCURACY 1/3200  
 MINIMUM DEGREE  
 SCALE 1" = 1200'  
 DRAWING NUMBER HHS2 WP 2HU  
 FILE NUMBER 102-001



PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 INFORMATION RECEIVED BY GUY AND THE RULES ISSUED AND  
 TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS SHOWS ALL THE  
 THE UNDERGROUND HEREBY CERTIFY THAT THIS PLAN IS CORRECT



B'H. LONGITUDE (80. 40. 00.)  
 AS-DRILLED

12' 138"

LONGITUDE 80. 45. 30"

LATITUDE 38. 20. 00"



B'H. LATITUDE (38. 20. 00.)  
 AS-DRILLED

HEAVEN HILL UNIT 2-6HU  
WELL PLAT LEASE INFORMATION

Lease No.	Tag	Parcel	Oil & Gas Royalty Owner	Deed Book	Deed Page
10*15505	A	9-7-3	RALPH E. WELLMAN	686	412
10*15521	A	9-7-3	VENANGO 21ST CENTURY ENERGY INC	722	281
10*15608	A	9-7-3	CHARLES R HAGEDORN JR	816	423
10*47051.073.1	A	9-7-3	VENANGO 21ST CENTURY ENERGY INC	888	618
10*47051.073.2	A	9-7-3	PATRIOT RESTORATIONS LLC	908	541
10*47051.073.3	A	9-7-3	TRIENERGY HOLDINGS, LLC	878	330
10*15505	A	9-7-3	RALPH E. WELLMAN	686	412
10*15521	A	9-7-3	VENANGO 21ST CENTURY ENERGY INC	722	281
10*15608	A	9-7-3	CHARLES R HAGEDORN JR	816	423
10*47051.073.1	A	9-7-3	VENANGO 21ST CENTURY ENERGY INC	888	618
10*47051.073.2	A	9-7-3	PATRIOT RESTORATIONS LLC	908	541
10*47051.073.3	A	9-7-3	TRIENERGY HOLDINGS, LLC	878	330
10*15505	B	9-7-3.1	RALPH E. WELLMAN	686	412
10*47051.073.2	B	9-7-3.1	PATRIOT RESTORATIONS LLC	908	541
10*47051.073.3	B	9-7-3.1	TRIENERGY HOLDINGS, LLC	878	330
10*15608	B	9-7-3.1	CHARLES R HAGEDORN JR	816	423
10*47051.073.1	B	9-7-3.1	VENANGO 21ST CENTURY ENERGY INC	888	618
10*47051.255.0	C	9-6-7	SCOTT C & CAROLYN R HARRIS	879	296
10*15665	D	9-7-1	MICHAEL J RINE ET UX	668	147
10*16471	E	9-7-2	CNX GAS COMPANY	905	155
10*15667	F	9-7-19	KEVIN E MCGILTON ET UX	850	351
10*15667	F	9-7-19	KEVIN E MCGILTON ET UX	850	351
10*15510	G	9-6-8	ELAINE PHELPS ET VIR	718	326
10*15511	G	9-6-8	DAVID E CROW	718	376
10*15512	G	9-6-8	FRANCES COFFEY	718	378
10*15513	G	9-6-8	KAY KEYES	718	330
10*15514	G	9-6-8	L PAUL CROW	718	336
10*15515	G	9-6-8	DESIRE L CROW	718	334
10*15516	G	9-6-8	ROSE MARIE KIELGCZEWSKI	718	354
10*15517	G	9-6-8	DIANNE GELLNER & GARY GELLNER	718	345
10*15518	G	9-6-8	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718	347
10*15519	G	9-6-8	JOHN CROW	726	580
10*15520	G	9-6-8	TIMOTHY CROW	726	582
10*47051.123.1	G	9-6-8	LLOYD G BAKER	865	389
10*47051.123.2	G	9-6-8	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873	143
10*16517	H	9-11-4	RHDK INVESTMENTS	907	550
10*16517	H	9-11-4	RHDK INVESTMENTS	907	550
10*16517	H	9-11-4	RHDK INVESTMENTS	907	550
10*16517	H	9-11-4	RHDK INVESTMENTS	907	550
10*16517	H	9-11-4	RHDK INVESTMENTS	907	550
10*16517	H	9-11-4	RHDK INVESTMENTS	907	550
10*16517	H	9-11-4	RHDK INVESTMENTS	907	550
10*15560	I	9-11-6.2	WILLIAM F KERNS ET UX	677	561
10*15669	I	9-11-6.2	EMMA ANDERSON	861	586
10*15670	I	9-11-6.2	GARY M BONAR	861	577
10*15671	I	9-11-6.2	JUDALENE K COLLUMS	861	571
10*15672	I	9-11-6.2	NAOMI HUPP	861	604
10*47051.256.2	I	9-11-6.2	CAROL JEAN ANDERSON	879	299
10*47051.256.3	I	9-11-6.2	BRENDA S DYKHOUSE	881	148
10*47051.256.4	I	9-11-6.2	GLEN A BONAR	881	151
10*47051.256.5	I	9-11-6.2	JERRY W ZIEN AND KATHLEEN E ZIEN	882	530
10*15584	J	9-11-5	VICKIE MASON	686	239
10*15585	J	9-11-5	SHARON L WHETZAL	687	147
10*15586	J	9-11-5	MARY A SOUTH	690	615
10*15587	J	9-11-5	ROBERT L WHETZAL	690	559
10*15588	J	9-11-5	RAY A WHETZAL JR	693	571
10*15589	J	9-11-5	MARK L WHETZAL	693	576
10*47051.108.1	J	9-11-5	MICHAEL A WHETZEL	885	51
10*47051.108.5	J	9-11-5	BRENDA J WHETZEL	885	55
10*47051.108.1	K	9-11-9	MICHAEL A WHETZEL	885	51
10*16258	L	9-11-13	CHESTNUT HOLDINGS INC	848	220
10*15582	M	9-11-10	ROBERT L CLARK	685	239

RECEIVED  
Office of Oil and Gas  
JUL 10 2020

WV Department of  
Environmental Protection

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