

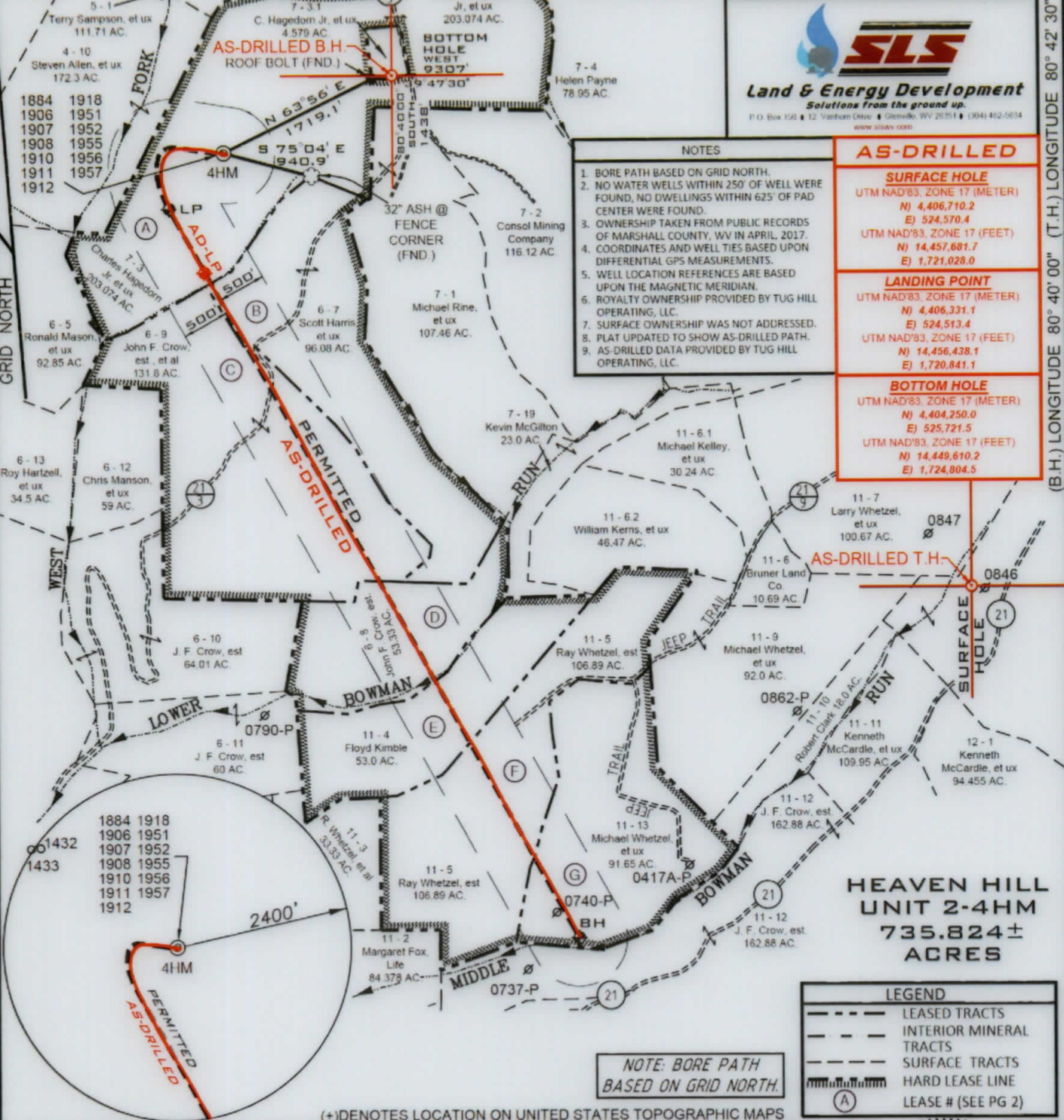
AS-DRILLED B.H. 9,308'

AS-DRILLED T.H. 1,351'

(B.H.) LATITUDE 39° 47' 30" (T.H.) LATITUDE 39° 50' 00"

form 504

PG 1 OF 2



**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P.O. Box 150 • 12 Vanhook Drive • Glenville, WV 26031 • (304) 452-5634  
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- 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 APRIL 2017.
  - 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.

AS-DRILLED	
<b>SURFACE HOLE</b>	
UTM NAD'83, ZONE 17 (METER)	
N) 4,406,710.2	
E) 524,570.4	
UTM NAD'83, ZONE 17 (FEET)	
N) 14,457,681.7	
E) 1,721,028.0	
<b>LANDING POINT</b>	
UTM NAD'83, ZONE 17 (METER)	
N) 4,406,331.1	
E) 524,513.4	
UTM NAD'83, ZONE 17 (FEET)	
N) 14,456,438.1	
E) 1,720,841.1	
<b>BOTTOM HOLE</b>	
UTM NAD'83, ZONE 17 (METER)	
N) 4,404,250.0	
E) 525,721.5	
UTM NAD'83, ZONE 17 (FEET)	
N) 14,449,610.2	
E) 1,724,004.5	

FILE NUMBER 163-697

DRAWING NUMBER HHU2\_WP\_4HM\_REV1

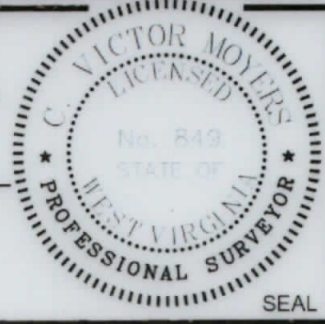
SCALE 1" = 1500'

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  
DATE REVISED: OCTOBER 17, 2019  
OPERATORS WELL NO. Heaven Hill Unit 2-4HM As-Drilled

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

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 735.824  
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 MARCELLUS ESTIMATED DEPTH TVD 6,879' TMD:15,972'  
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

AS-DRILLED B.H. 1,433'  
AS-DRILLED T.H. 8,523'  
COUNTY NAME  
PERMIT



HEAVEN HILL UNIT 2-4HM  
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*47051.255.0	B	9-6-7	SCOTT C & CAROLYN R HARRIS	879	296
10*15510	C	9-6-9	ELAINE PHELPS ET VIR	718	326
10*15511	C	9-6-9	DAVID E CROW	718	376
10*15512	C	9-6-9	FRANCES COFFEY	718	378
10*15513	C	9-6-9	KAY KEYES	718	330
10*15514	C	9-6-9	L PAUL CROW	718	336
10*15515	C	9-6-9	DESIRE L CROW	718	334
10*15516	C	9-6-9	ROSE MARIE KIELGCZEWSKI	718	354
10*15517	C	9-6-9	DIANNE GELLNER & GARY GELLNER	718	345
10*15518	C	9-6-9	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718	347
10*15519	C	9-6-9	JOHN CROW	726	580
10*15520	C	9-6-9	TIMOTHY CROW	726	582
10*47051.123.1	C	9-6-9	LLOYD G BAKER	865	389
10*47051.123.2	C	9-6-9	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873	143
10*15510	D	9-6-8	ELAINE PHELPS ET VIR	718	326
10*15511	D	9-6-8	DAVID E CROW	718	376
10*15512	D	9-6-8	FRANCES COFFEY	718	378
10*15513	D	9-6-8	KAY KEYES	718	330
10*15514	D	9-6-8	L PAUL CROW	718	336
10*15515	D	9-6-8	DESIRE L CROW	718	334
10*15516	D	9-6-8	ROSE MARIE KIELGCZEWSKI	718	354
10*15517	D	9-6-8	DIANNE GELLNER & GARY GELLNER	718	345
10*15518	D	9-6-8	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718	347
10*15519	D	9-6-8	JOHN CROW	726	580
10*15520	D	9-6-8	TIMOTHY CROW	726	582
10*47051.123.1	D	9-6-8	LLOYD G BAKER	865	389
10*47051.123.2	D	9-6-8	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873	143
10*16517	E	9-11-4	RHDK INVESTMENTS	907	550
10*15584	F	9-11-5	VICKIE MASON	686	239
10*15585	F	9-11-5	SHARON L WHETZAL	687	147
10*15586	F	9-11-5	MARY A SOUTH	690	615
10*15587	F	9-11-5	ROBERT L WHETZAL	690	559
10*15588	F	9-11-5	RAY A WHETZAL JR	693	571
10*15589	F	9-11-5	MARK L WHETZAL	693	576
10*47051.108.1	F	9-11-5	MICHAEL A WHETZEL	885	51
10*47051.108.5	F	9-11-5	BRENDA J WHETZEL	885	55
10*15604	G	9-11-13	HAYHURST COMPANY A FLORIDA PARTNERSHIP	724	8

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