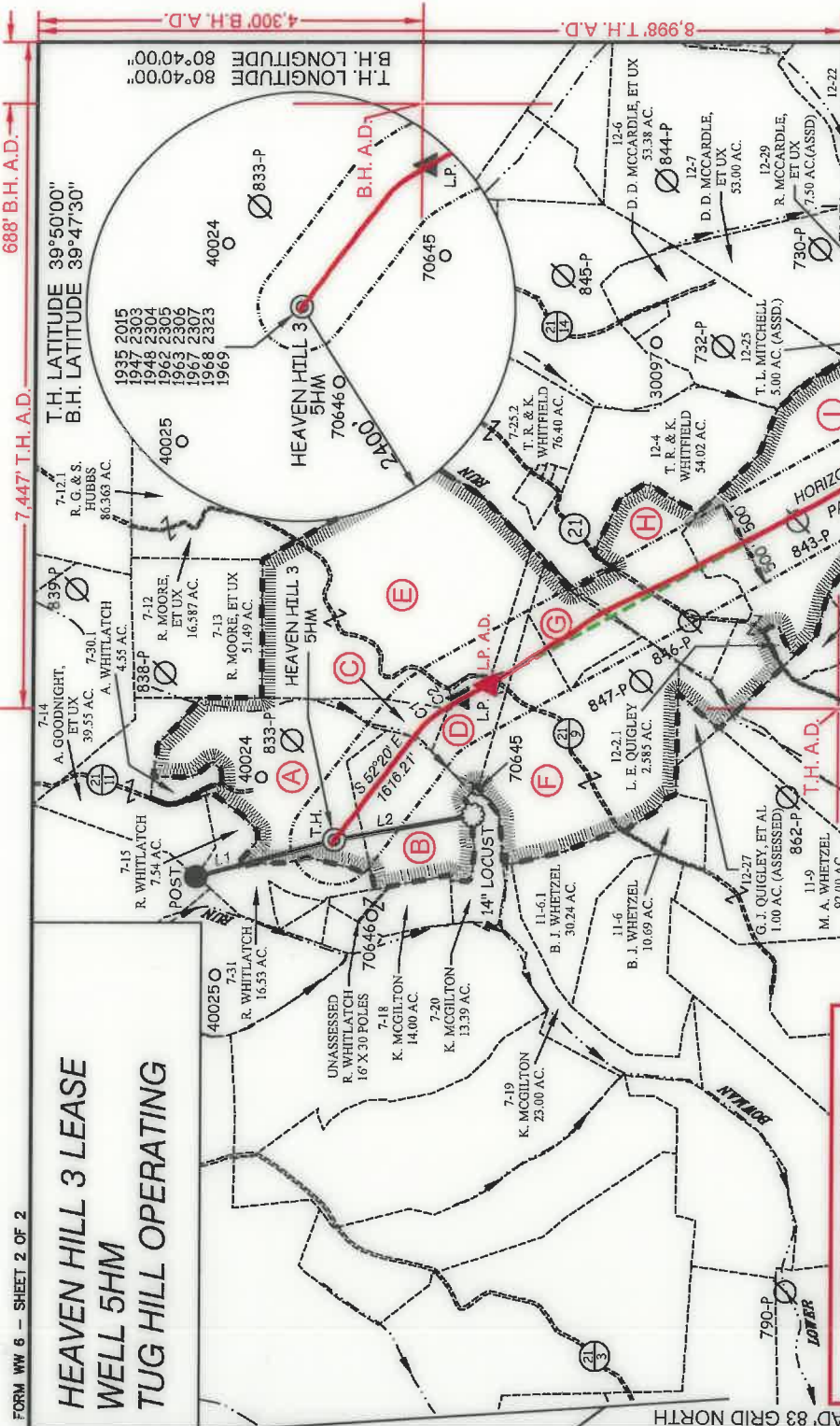


**HEAVEN HILL 3 LEASE
WELL 5HM
TUG HILL OPERATING**



**AS DRILLED COORDINATES
FOR WELL NO. 5HM**

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

NAD83 S.P.C.(F) N. 478,971.19 E. 1,633,313.44
 NAD83 GEO. LAT-(N) 39.808633 LONG-(W) 80.693174
 NAD83 UTM (M) N. 4,406,562.70 E. 526,263.54

LANDING POINT

NAD83 S.P.C.(F) N. 477,180.3 E. 1,635,054.9
 NAD83 GEO. LAT-(N) 39.804000 LONG-(W) 80.686865
 NAD83 UTM (M) N. 4,405,050.3 E. 526,602.6

BOTTOM HOLE

NAD83 S.P.C.(F) N. 466,303.6 E. 1,639,955.1
 NAD83 GEO. LAT-(N) 39.779883 LONG-(W) 80.669116
 NAD83 UTM (M) N. 4,403,376.9 E. 528,394.7

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	LARRY J. WHETZEL, ET UX	9-7-23 36.00
E	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-24 139.79
F	BRENDA J. WHETZEL	9-11-7 82.858
G	BRENDA J. WHETZEL	9-11-7.1 17.812
H	WNEK FAMILY IRREVOCABLE TRUST	9-11-8 50.10
I	GERALD W. QUIGLEY, ET AL	9-12-2 139.795
J	MYRTLE ELIZABETH GARTEN	9-12-30 7.26
K	GARY L. DOBBS	9-12-37 20.00
L	DAVID P. CHAPMAN	9-12-32 150.00
M	MYRTLE ELIZABETH GARTEN	9-14-18 20.00
N	SUSAN VANDYNE	9-15-3 167.00

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. *C. Victor Moyers*
 849

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

NAD83 S.P.C.(F) N. 478,971.19 E. 1,633,313.44
 NAD83 GEO. LAT-(N) 39.808633 LONG-(W) 80.693174
 NAD83 UTM (M) N. 4,406,562.70 E. 526,263.54

LANDING POINT

NAD83 S.P.C.(F) N. 477,180.3 E. 1,634,897.7
 NAD83 GEO. LAT-(N) 39.804824 LONG-(W) 80.687469
 NAD83 UTM (M) N. 4,406,141.6 E. 526,753.4

BOTTOM HOLE

NAD83 S.P.C.(F) N. 468,280.5 E. 1,639,941.2
 NAD83 GEO. LAT-(N) 39.779827 LONG-(W) 80.669094
 NAD83 UTM (M) N. 4,403,373.0 E. 528,396.6

SCALE 1" = 2000' FILE NO. 8654P5HMADR.dwg

DATE JANUARY 17, 2019

REVISED JUNE 12, 2020

OPERATORS WELL NO. HEAVEN HILL 3-5HM

API WELL NO. **47-051-01948**

NO. STATE COUNTY PERMIT

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

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

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

LINE	BEARING	DISTANCE
L1	N 14°48' W	1604.09'
L2	S 10°05' E	1580.22'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	149.18'	686.80'	S 43°26' E	148.88'
C2	373.18'	2411.64'	S 32°54' E	372.81'



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

- LEGEND**
- LEASE LINE
 - SURFACE LINE
 - WELL LATERAL
 - OFFSET LINE
 - TIE LINE
 - CREEK
 - ROAD
 - COUNTY ROUTE
 - PROPOSED WELL
 - EXISTING WELL
 - PERMITTED WELL
 - TAX MAP-PARCEL
 - LEASE # (SEE WW-6A1)
 - SURFACE OWNER (SEE TABLE)

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



COUNTY NAME PERMIT

688' B.H.A.D. 7.447' T.H.A.D.

4.300' B.H.A.D. 8.998' T.H.A.D.

T.H. LATITUDE 39°50'00"
 B.H. LATITUDE 39°47'30"
 T.H. LONGITUDE 80°40'00"
 B.H. LONGITUDE 80°40'00"

**HEAVEN HILL 3 LEASE
WELL 5HM
TUG HILL OPERATING**

7,447' T.H. A.D.

688' B.H. A.D.

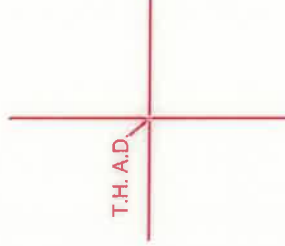
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)	
NAD'83 S.P.C.(FT)	N. 478,871.18
NAD'83 GEO.	LAT-(N) 39.808633
NAD'83 UTM (M)	N. 4,406,562.70
LANDING POINT	
NAD'83 S.P.C.(FT)	N. 477,462.6
NAD'83 GEO.	LAT-(N) 39.804824
NAD'83 UTM (M)	N. 4,406,141.6
BOTTOM HOLE	
NAD'83 S.P.C.(FT)	N. 468,290.5
NAD'83 GEO.	LAT-(N) 39.779827
NAD'83 UTM (M)	N. 4,403,373.0

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

B.H. A.D.

8,998' T.H. A.D.



NOTES ON SURVEY

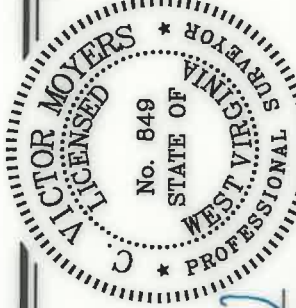
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
- AS--DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS--DRILLED PATH.



12 Venhorn 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
slsww.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 JANUARY 17, 20 19
REVISED JUNE 12, 20 20
OPERATORS WELL NO. HEAVEN HILL 3-5HM
API WELL NO. 47 - 051 - 01948

MINIMUM DEGREE OF ACCURACY 1 / 2500
FILE NO. 8654P5HMADR.dwg
SCALE 1" = 2000'
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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



WELL TYPE: OIL ___ GAS INJECTION ___ WASTE ___ LIQUID ___
IF "GAS" PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION PROPOSED = 1,342.20' GROUND = 1,342.20'
ELEVATION PROPOSED = 1,326.35'
DISTRICT MEADE COUNTY MARSHALL WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)
SURFACE OWNER RICKY L. WHITLATCH
ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE WW-6A1
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 MARCELLUS
ESTIMATED DEPTH TVD: 6,876' / TMD: 17,967'

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

COUNTY NAME PERMIT