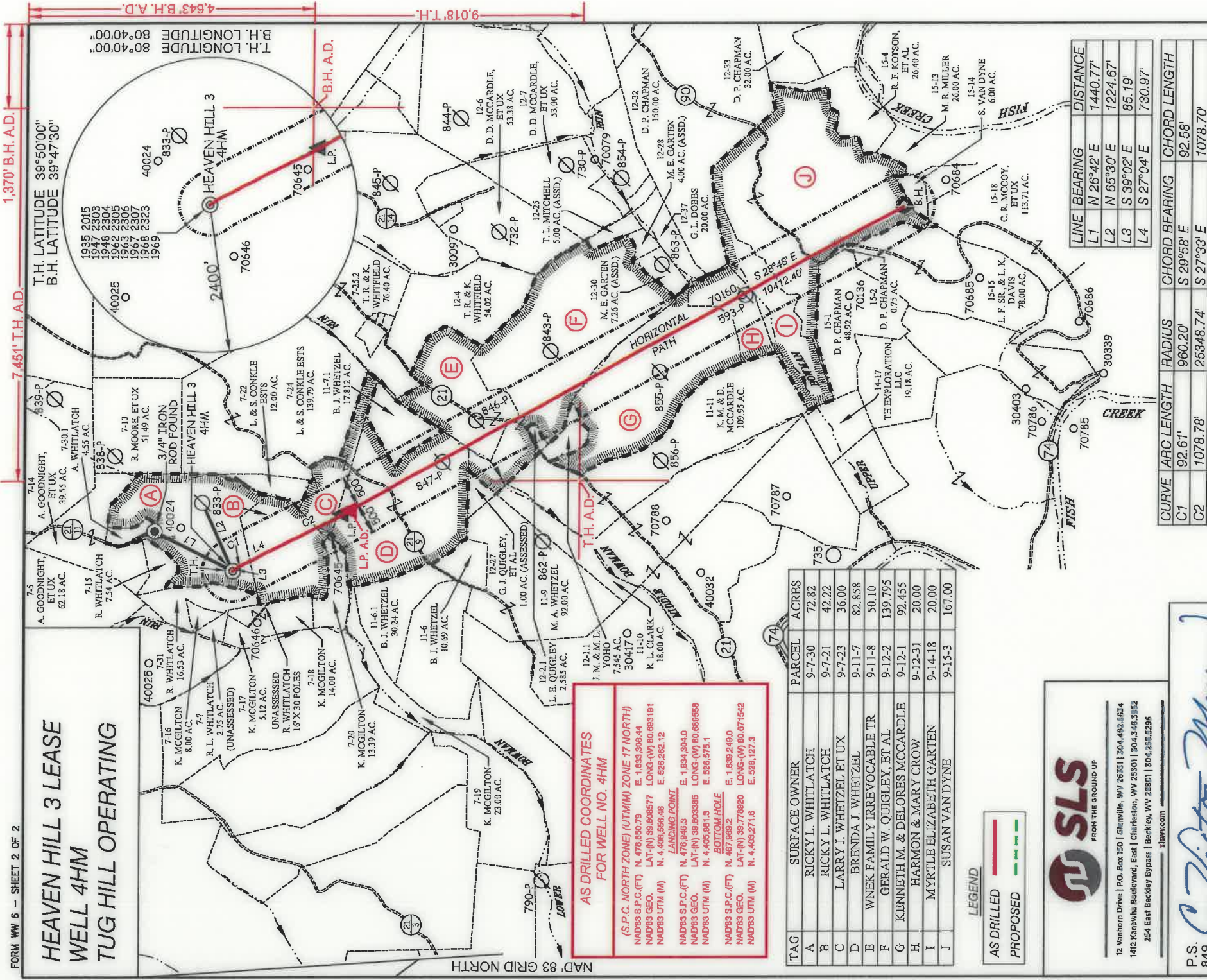


**HEAVEN HILL 3 LEASE
WELL 4HM
TUG HILL OPERATING**



7.451" T.H.A.D.
1.370" B.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"

9.018" T.H.

4.643" B.H.A.D.

**AS DRILLED COORDINATES
FOR WELL NO. 4HM**

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

NAD83 S.P.C.(FT)	N. 478,850.79	E. 1,633,308.44
NAD83 GEO.	LAT-(N) 39.808577	LONG-(W) 80.693191
NAD83 UTM (M)	N. 4,408,556.46	E. 528,262.12
LANDING POINT		
NAD83 S.P.C.(FT)	N. 476,946.3	E. 1,634,304.0
NAD83 GEO.	LAT-(N) 39.803385	LONG-(W) 80.689793
NAD83 UTM (M)	N. 4,405,981.3	E. 528,575.1
BOTTOM HOLE		
NAD83 S.P.C.(FT)	N. 487,969.2	E. 1,639,249.0
NAD83 GEO.	LAT-(N) 39.778920	LONG-(W) 80.671542
NAD83 UTM (M)	N. 4,403,271.6	E. 529,127.3

TAG	SURFACE OWNER	PARCEL ACRES
A	RICKY L. WHITLATCH	9-7-30 72.82 735
B	RICKY L. WHITLATCH	9-7-21 42.22
C	LARRY J. WHITZEL ET UX	9-7-23 36.00
D	BRENDA J. WHITZEL	9-11-7 82.858
E	WNEK FAMILY IRREVOCABLE TR	9-11-8 50.10
F	GERALD W. QUIGLEY, ET AL	9-12-2 139.795
G	KENNETH M. & DELORES MCCARDLE	9-12-1 92.455
H	HARMON & MARY CROW	9-12-31 20.00
I	MYRTLE ELIZABETH GARTEN	9-14-18 20.00
J	SUSAN VAN DYNE	9-15-3 167.00

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

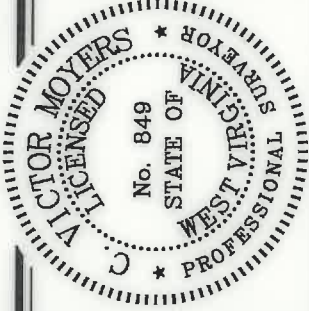


12 Vamborn Drive | P.O. Box 150 | Glenville, WV 26751 | 204.463.6624
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.546.5392
254 East Backley Bypass | Beckley, WV 25801 | 304.255.2295
slswv.com

P.S. *C. Victor Moyers*
849

LINE	BEARING	DISTANCE
L1	N 26°42' E	1440.77'
L2	N 65°30' E	1224.67'
L3	S 39°02' E	85.19'
L4	S 27°04' E	730.97'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	92.61'	960.20'	S 29°58' E	92.58'
C2	1078.78'	25348.74'	S 27°33' E	1078.70'



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

NAD83 S.P.C.(FT)	N. 478,850.79	E. 1,633,308.44
NAD83 GEO.	LAT-(N) 39.808577	LONG-(W) 80.693191
NAD83 UTM (M)	N. 4,408,556.46	E. 528,262.12
LANDING POINT		
NAD83 S.P.C.(FT)	N. 477,097.1	E. 1,634,240.0
NAD83 GEO.	LAT-(N) 39.803797	LONG-(W) 80.689793
NAD83 UTM (M)	N. 4,405,026.9	E. 528,554.8
BOTTOM HOLE		
NAD83 S.P.C.(FT)	N. 467,973.0	E. 1,639,256.8
NAD83 GEO.	LAT-(N) 39.778931	LONG-(W) 80.671514
NAD83 UTM (M)	N. 4,403,272.8	E. 528,128.7

SCALE 1" = 2000' FILE NO. 8654P4HMADR.dwg

DATE JANUARY 17, 2019

REVISED JUNE 12, 2020

OPERATORS WELL NO. HEAVEN HILL 3-4HM

API WELL NO. **47-051-01947**

NO. STATE COUNTY PERMIT

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

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) 00-00 (A)

COUNTY NAME PERMIT

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

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

**HEAVEN HILL 3 LEASE
WELL 4HM
TUG HILL OPERATING**

7,461' T.H. A.D.

1,370' 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)
 NAD83 S.P.C.(FT) N. 478,850.78 E. 1,633,308.44
 NAD83 GEO. LAT.-(N) 39.808577 LONG.-(W) 80.693191
 NAD83 UTM (M) N. 4,406,556.46 E. 526,262.12
LANDING POINT
 NAD83 S.P.C.(FT) N. 477,097.1 E. 1,634,240.0
 NAD83 GEO. LAT.-(N) 39.803797 LONG.-(W) 80.689793
 NAD83 UTM (M) N. 4,406,026.9 E. 526,554.8
BOTTOM HOLE
 NAD83 S.P.C.(FT) N. 467,973.0 E. 1,639,256.8
 NAD83 GEO. LAT.-(N) 39.778981 LONG.-(W) 80.67 514
 NAD83 UTM (M) N. 4,403,272.8 E. 528,129.7

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

B.H. A.D.

9,018' T.H.

4,643' B.H. A.D.

T.H. A.D.

NOTES ON SURVEY

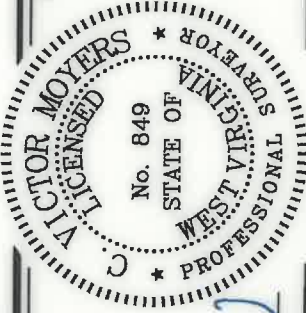
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
3. AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC
4. PLAT UPDATED TO SHOW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



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 | 304.255.6296
www.sls.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



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

DATE JANUARY 17, 20 19
 REVISED JUNE 12, 20 20
 OPERATORS WELL NO. HEAVEN HILL 3-4HM
 API WELL NO. 47 - 051 - 01947
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P4HMADR.dwg
 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 INJECTION ___ WASTE LIQUID ___ INJECTION ___ DISPOSAL ___ "GAS" PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION PROPOSED = 1,326.35' GROUND = 1,344.50'
 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: 17.867'

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

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

COUNTY NAME

PERMIT