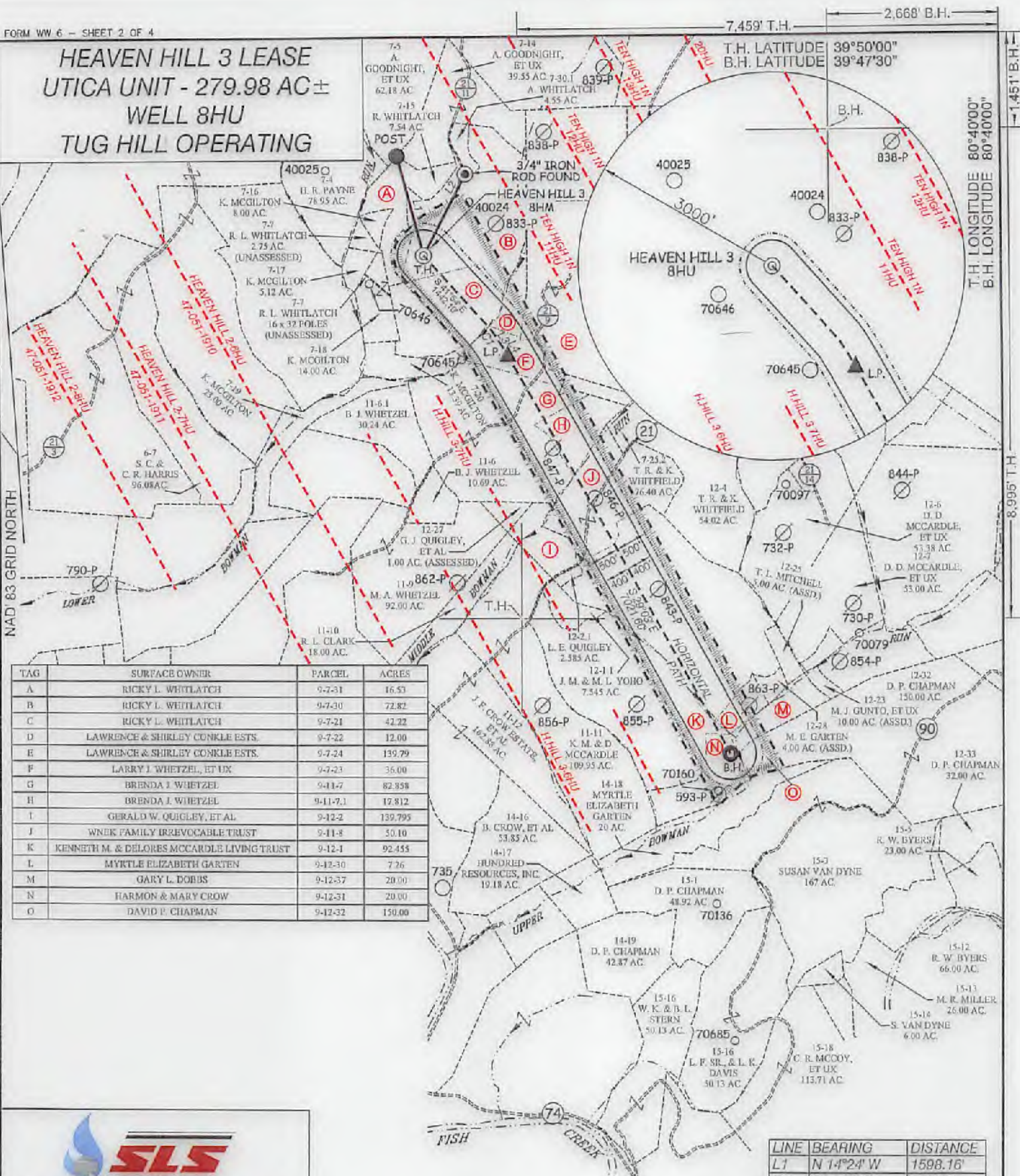


**HEAVEN HILL 3 LEASE  
UTICA UNIT - 279.98 AC ±  
WELL 8HU  
TUG HILL OPERATING**



NAD 83 GRID NORTH

TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-31	16.53
B	RICKY L. WHITLATCH	9-7-30	72.82
C	RICKY L. WHITLATCH	9-7-21	42.22
D	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-22	12.00
E	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-24	139.79
F	LARRY J. WHEZEL, ET UX	9-7-23	36.00
G	BRENDA J. WHEZEL	9-11-7	82.958
H	BRENDA J. WHEZEL	9-11-7.1	12.812
I	GERALD W. QUIGLEY, ET AL.	9-12-2	139.795
J	WNEK FAMILY IRREVOCABLE TRUST	9-11-8	50.10
K	KENNETH M. & DELORES MCCARDLE LIVING TRUST	9-12-1	92.455
L	MYRTLE ELIZABETH GARTEN	9-12-30	7.26
M	GARY L. DOBBS	9-12-57	20.00
N	HARMON & MARY CROW	9-12-51	20.00
O	DAVID P. CHAPMAN	9-12-32	150.00

LINE	BEARING	DISTANCE
L1	N 14°24' W	1598.16'
L2	N 27°23' E	1423.2'
L3	S 31°58' E	136.67'
L4	S 30°03' E	217.72'

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	226.85'	1135.61'	11°26'44"	N 37°13' W	226.47'

**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P. O. Box 150 • 12 Vanhook Drive • Clarksburg, WV 26301 • (304) 432-0034  
www.slsurveyors.com

P.S. 677  
*Gregory A. Smith*



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

**LEGEND**

- UNIT BOUNDARY
- LEASED TRACTS INSIDE
- UNIT BOUNDARY
- SURFACE LINE
- PROPOSED UTICA
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE PGS. 1, 3 & 4)

SCALE 1" = 2000' FILE NO. 8654P8HUR2.dwg  
DATE AUGUST 25, 2017  
REVISED JANUARY 25, 2018 & JANUARY 29, 2018  
OPERATORS WELL NO. HEAVEN HILL 3-8HU  
API WELL NO. 47 - 051 - 01967H6A  
STATE COUNTY PERMIT

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

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

03/02/2018

COUNTY NAME PERMIT

7,459' T.H.

2,668' B.H.

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

**HEAVEN HILL 3 LEASE  
UTICA UNIT - 279.98 AC±  
WELL 8HU  
TUG HILL OPERATING**

B.H.

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

No.	Lease Name or No.	Trg	Exec'd	Oil & Gas Royalty Owners	Acres	Page
1	10*15057	A	9-7-21	RICKY L. WHITLATCH ET AL	780	226
2	10*15057	B	9-7-21	RICKY L. WHITLATCH ET AL	780	226
3	10*15057	C	9-7-21	RICKY L. WHITLATCH ET AL	780	226
4	10*15603	D	9-7-22	ANNA EMERSON A/N/A ANNE ASTON	864	603
5	10*15603	D	9-7-22	BRENDA J. WHITZEL	864	603
6	10*15603	D	9-7-22	CHRISTINA IRINE	864	603
7	10*15603	D	9-7-22	DANIEL IRINE	864	603
8	10*15603	D	9-7-22	DAVID F. IRINE	864	603
9	10*15603	D	9-7-22	DAVID HEINZROTZ	864	603
10	10*15603	D	9-7-22	DELLA M. BURKEY A/N/A MAXINE ASTON	864	603
11	10*15603	D	9-7-22	DIANE B. ASTON	864	603
12	10*15603	D	9-7-22	DONALD ASTON	864	603
13	10*15603	D	9-7-22	DONALD ASTON	864	603
14	10*15603	D	9-7-22	DONALD ASTON	864	603
15	10*15603	D	9-7-22	DONALD ASTON	864	603
16	10*15603	D	9-7-22	DONALD ASTON	864	603
17	10*15603	D	9-7-22	DONALD ASTON	864	603
18	10*15603	D	9-7-22	DONALD ASTON	864	603
19	10*15603	D	9-7-22	DONALD ASTON	864	603
20	10*15603	D	9-7-22	DONALD ASTON	864	603
21	10*15603	D	9-7-22	DONALD ASTON	864	603
22	10*15603	D	9-7-22	DONALD ASTON	864	603
23	10*15603	D	9-7-22	DONALD ASTON	864	603
24	10*15603	D	9-7-22	DONALD ASTON	864	603
25	10*15603	D	9-7-22	DONALD ASTON	864	603
26	10*15603	D	9-7-22	DONALD ASTON	864	603
27	10*15603	D	9-7-22	DONALD ASTON	864	603
28	10*15603	D	9-7-22	DONALD ASTON	864	603
29	10*15603	D	9-7-22	DONALD ASTON	864	603
30	10*15603	D	9-7-22	DONALD ASTON	864	603
31	10*15603	D	9-7-22	DONALD ASTON	864	603
32	10*15603	D	9-7-22	DONALD ASTON	864	603
33	10*15603	D	9-7-22	DONALD ASTON	864	603
34	10*15603	D	9-7-22	DONALD ASTON	864	603
35	10*15603	D	9-7-22	DONALD ASTON	864	603
36	10*15603	D	9-7-22	DONALD ASTON	864	603
37	10*15603	D	9-7-22	DONALD ASTON	864	603
38	10*15603	D	9-7-22	DONALD ASTON	864	603
39	10*15603	D	9-7-22	DONALD ASTON	864	603
40	10*15603	D	9-7-22	DONALD ASTON	864	603
41	10*15603	D	9-7-22	DONALD ASTON	864	603
42	10*15603	D	9-7-22	DONALD ASTON	864	603
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51	10*15603	D	9-7-22	DONALD ASTON	864	603
52	10*15603	D	9-7-22	DONALD ASTON	864	603
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55	10*15603	D	9-7-22	DONALD ASTON	864	603
56	10*15603	D	9-7-22	DONALD ASTON	864	603
57	10*15603	D	9-7-22	DONALD ASTON	864	603
58	10*15603	D	9-7-22	DONALD ASTON	864	603
59	10*15603	D	9-7-22	DONALD ASTON	864	603
60	10*15603	D	9-7-22	DONALD ASTON	864	603
61	10*15603	D	9-7-22	DONALD ASTON	864	603
62	10*15603	D	9-7-22	DONALD ASTON	864	603
63	10*15603	D	9-7-22	DONALD ASTON	864	603
64	10*15603	D	9-7-22	DONALD ASTON	864	603
65	10*15603	D	9-7-22	DONALD ASTON	864	603
66	10*15603	D	9-7-22	DONALD ASTON	864	603
67	10*15603	D	9-7-22	DONALD ASTON	864	603
68	10*15603	D	9-7-22	DONALD ASTON	864	603
69	10*15603	D	9-7-22	DONALD ASTON	864	603
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74	10*15603	D	9-7-22	DONALD ASTON	864	603
75	10*15603	D	9-7-22	DONALD ASTON	864	603
76	10*15603	D	9-7-22	DONALD ASTON	864	603
77	10*15603	D	9-7-22	DONALD ASTON	864	603
78	10*15603	D	9-7-22	DONALD ASTON	864	603
79	10*15603	D	9-7-22	DONALD ASTON	864	603
80	10*15603	D	9-7-22	DONALD ASTON	864	603

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'83 S.P.C.(FT) N. 478,874.16 E. 1,633,301.30  
 NAD'83 GEO. LAT.(-N) 39.806640 LONG.(-W) 80.683218  
 NAD'83 UTM (M) N. 4,406,563.54 E. 526,259.83

**LANDING POINT**  
 NAD'83 S.P.C.(FT) N. 471,316.1 E. 1,634,562.8  
 NAD'83 GEO. LAT.(-N) 39.804410 LONG.(-W) 80.688583  
 NAD'83 UTM (M) N. 4,406,095.4 E. 526,658.2

**BOTTOM HOLE**  
 NAD'83 S.P.C.(FT) N. 471,178.0 E. 1,637,992.5  
 NAD'83 GEO. LAT.(-N) 39.787633 LONG.(-W) 80.676161  
 NAD'83 UTM (M) N. 4,404,242.7 E. 527,728.2

T.H.

**REFERENCES**



**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 S.Q. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

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. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE AUGUST 25, 2017  
 REVISED JANUARY 25, 2018 & JANUARY 29, 2018  
 OPERATORS WELL NO. HEAVEN HILL 3-8HU  
 API WELL NO. 47-051-01967  
 STATE COUNTY PERMIT H6A

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P8HUR2.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  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION GROUND = 1,339.40' PROPOSED = 1,326.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)  
 DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER RICKY L. WHITLATCH ACREAGE 72.82±  
 ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE PAGES 1, 3 & 4 ACREAGE 72.82±

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: 11,829' / TMD: 19,217'

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

03/02/2018

COUNTY NAME PERMIT