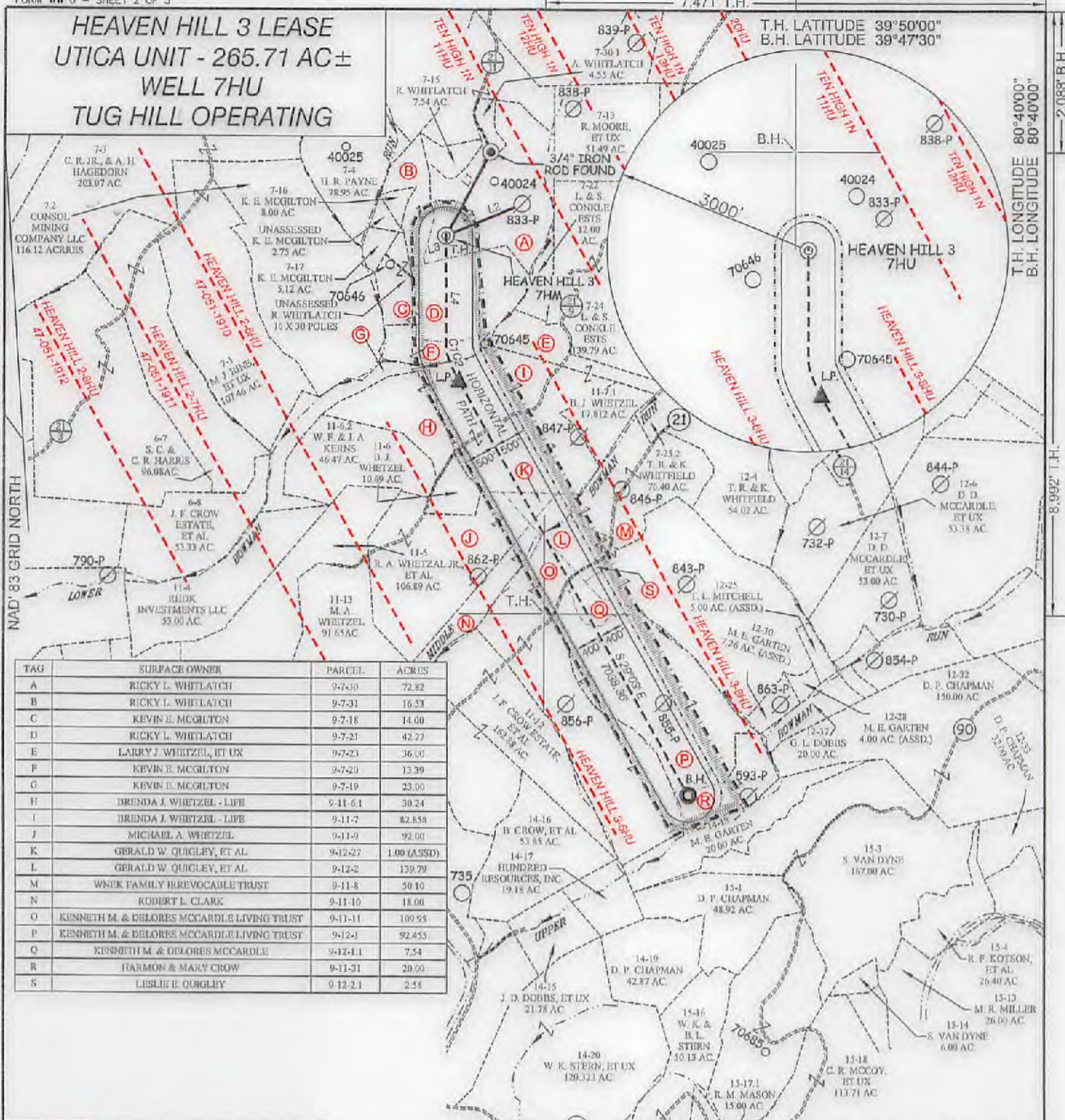


**HEAVEN HILL 3 LEASE
UTICA UNIT - 265.71 AC±
WELL 7HU
TUG HILL OPERATING**

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

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



TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
B	RICKY L. WHITLATCH	9-7-31	16.53
C	KEVIN E. MCGILTON	9-7-18	14.00
D	RICKY L. WHITLATCH	9-7-21	42.22
E	LARRY J. WHITZEL, ET UX	9-7-23	36.00
F	KEVIN E. MCGILTON	9-7-20	13.39
G	KEVIN E. MCGILTON	9-7-19	23.00
H	BRENDA J. WHITZEL - LIFE	9-11-6-1	30.24
I	BRENDA J. WHITZEL - LIFE	9-11-7	82.858
J	MICHAEL A. WHITZEL	9-11-9	92.00
K	GERALD W. QUIGLEY, ET AL.	9-12-27	1.00 (ASSD)
L	GERALD W. QUIGLEY, ET AL.	9-12-2	139.79
M	WNEK FAMILY IRREVOCABLE TRUST	9-11-8	50.10
N	ROBERT L. CLARK	9-11-10	18.00
O	KENNETH M. & DELORES MCCARDLE LIVING TRUST	9-11-11	109.95
P	KENNETH M. & DELORES MCCARDLE LIVING TRUST	9-12-1	92.455
Q	KENNETH M. & DELORES MCCARDLE	9-12-1-1	7.54
R	HARMON & MARY CROW	9-11-51	20.00
S	LESLIE E. QUIGLEY	9-12-2-1	2.58

LINE	BEARING	DISTANCE
L1	N 27°52' E	1426.20'
L2	N 66°59' E	1231.71'
L3	N 00°57' E	36.65'
L4	S 00°12' E	1705.81'

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	236.17'	786.80'	17°11'54"	S 15°23' E	235.29'
C2	302.35'	2538.63'	6°49'26"	S 25°48' E	302.17'

SLS
Land & Energy Development
Solutions from the ground up.
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www.slsurveys.com

P.S. 677
Gregory A. Smith

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

NAD83 S.P.C.(FT)	N. 478,877.13	E. 1,633,289.15
NAD83 GEO.	LAT-(N) 39.808648	LONG-(W) 80.693261
NAD83 UTM (M)	N. 4,408,564.39	E. 526,266.11

LANDING POINT

NAD83 S.P.C.(FT)	N. 475,799.1	E. 1,633,469.6
NAD83 GEO.	LAT-(N) 39.802704	LONG-(W) 80.692445
NAD83 UTM (M)	N. 4,405,904.9	E. 526,328.2

BOTTOM HOLE

NAD83 S.P.C.(FT)	N. 470,055.7	E. 1,636,906.4
NAD83 GEO.	LAT-(N) 39.785936	LONG-(W) 80.679967
NAD83 UTM (M)	N. 4,404,047.6	E. 527,400.5



(+) 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)

03/02/2018

SCALE 1" = 2000' FILE NO. 8664P7HUR3.dwg
DATE AUGUST 25, 20 17
REVISED 10-9-2017, 1-25-2018 & 1-29-2018
OPERATORS WELL NO. HEAVEN HILL 3-7HU
API WELL 47 - 051 - 01969H6A
NO. STATE COUNTY PERMIT

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

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

**HEAVEN HILL 3 LEASE
UTICA UNIT - 265.71 AC±
WELL 7HU
TUG HILL OPERATING**

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

T.H. LONGITUDE 80°40'00"
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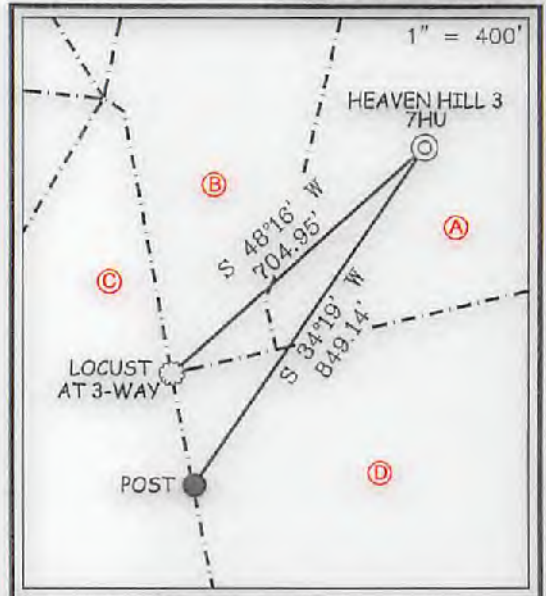
8,992' T.H.

No.	Lease Name or No.	Ty	Parcel	Oil & Gas Royalty Owners	Deed Book/Page
1	10*1557	A	5-7-18	RICKY WHITLATCH ET AL	780 226
2	10*1557	B	5-7-18	RICKY WHITLATCH ET AL	780 226
3	10*1557	C	5-7-18	RICKY WHITLATCH ET AL	780 226
4	10*1551	C	5-7-18	DOMNA JEAN SHIBER AND DAVID SHIBER	975 452
5	10*1542	C	5-7-18	ELIZABETH ANN BLAZER AND PAUL BLAZER	975 452
6	10*1523	C	5-7-18	GARY D HINERMAN AND JUDY ANN HINERMAN	975 456
7	10*1520	C	5-7-18	KARLEN GREATHOUSE AND FLOYD GREATHOUSE	975 458
8	10*1508	C	5-7-18	ROBERT A EDGE AND SHERIE H EDGE	975 454
9	10*1413	C	5-7-18	RONALD H EDGE JR	975 454
10	10*1528	C	5-7-18	ROSEMARY PARKINS AND STEPHEN PARKINS	975 460
11	10*1520	C	5-7-18	SHARON HINERMAN MAY & DANIEL G MAY	975 464
12	10*1521	C	5-7-18	TINA L EDGE MONTI AND THOMAS MONTI	975 456
13	10*1567	C	5-7-18	KEVIN E BECKTON BY GR	730 226
14	10*1557	D	5-7-18	RICKY WHITLATCH ET AL	780 226
15	10*4051.256.22	E	5-7-23	BEVERLY JOHNSON	913 581
16	10*4051.256.1	E	5-7-23	BRUNDA J WAREZEL	881 345
17	10*1546	E	5-7-23	BRUCE SCHUBB	923 478
18	10*1547	E	5-7-23	CAROL BIGGIE PARSLEY AND JAMES DENNIS PARSLEY	825 227
19	10*4051.256.24	E	5-7-23	CATHERINE BONAR PETTI BLUE	904 628
20	10*4051.256.16	E	5-7-23	CHARLOTTE B HUMMEL	904 455
21	10*4051.256.15	E	5-7-23	CHARLOTTE BONAR YOHIO	919 239
22	10*1526	E	5-7-23	CHASICA F HARRIS AND JAMES M HARRIS	919 239
23	10*1507	E	5-7-23	DEWAY METCALF	919 241
24	10*1545	E	5-7-23	DILLON PITZENBERGER	925 329
25	10*1515	E	5-7-23	EARL W HARRIS	925 329
26	10*4051.256.10	E	5-7-23	GRACELA LARA BONAR	905 43
27	10*4051.256.14	E	5-7-23	HUGH R RUZZARD	904 638
28	10*4051.256.11	E	5-7-23	JACK L MASON AND JEAN M MASON	909 209
29	10*4051.256.20	E	5-7-23	JEFFREY THOMAS PILES AND TERESA A PILES	905 37
30	10*4051.256.11	E	5-7-23	JOHN L MASON	913 522
31	10*4051.256.16	E	5-7-23	JOHN WILLIAM BONAR AND SHIRLEY BONAR	909 29
32	10*4051.256.7	E	5-7-23	MARILEY SUE BLUMER	904 452
33	10*4051.256.17	E	5-7-23	MAXINE S JOHNSON	904 452
34	10*4051.256.19	E	5-7-23	MICHAEL DAVID PILES AND CHYRBA A PILES	907 207
35	10*4051.256.8	E	5-7-23	PAMULA ANN MASON	913 51
36	10*4051.256.23	E	5-7-23	ROBERT L BONAR	905 35
37	10*4051.256.12	E	5-7-23	STEVEN A BONER	925 325
38	10*1401	E	5-7-23	TOMMY BONAR AND TANYA S BONAR	905 33
39	10*4051.256.9	F	5-7-23	WANDA MASON SUNSHINE	905 41
40	10*4051.256.13	F	5-7-23	WILLIAM W CRAIG AND GLENDA E CRAIG	905 468
41	10*1409	F	5-7-23	WENDIA HINERMAN WILLIAMSON AND BRIAN K WILLIAMSON	975 462
42	10*1421	F	5-7-23	DOMNA JEAN SHIBER AND DAVID SHIBER	975 452
43	10*1482	F	5-7-23	ELIZABETH ANN BLAZER AND PAUL BLAZER	975 456
44	10*1423	F	5-7-23	GARY D HINERMAN AND JUDY ANN HINERMAN	975 458
45	10*1520	F	5-7-23	KARLEN GREATHOUSE AND FLOYD GREATHOUSE	975 454
46	10*1508	F	5-7-23	ROBERT A EDGE AND SHERIE H EDGE	975 454
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48	10*1408	F	5-7-23	ROSEMARY PARKINS AND STEPHEN PARKINS	975 464
49	10*1420	F	5-7-23	SHARON HINERMAN MAY & DANIEL G MAY	975 456
50	10*1521	F	5-7-23	TINA L EDGE MONTI AND THOMAS MONTI	975 458
51	10*1567	F	5-7-23	KEVIN E BECKTON BY GR	730 226
52	10*1557	F	5-7-23	RICKY WHITLATCH ET AL	780 226
53	10*4051.256.1	H	5-11-7	BRUNDA J WAREZEL	881 345
54	10*4051.256.3	H	5-11-7	CHARLOTTE BONAR YOHIO	919 239
55	10*4051.256.2	H	5-11-7	CHARLOTTE BONAR YOHIO	919 239
56	10*4051.256.4	H	5-11-7	CHASICA F HARRIS AND JAMES M HARRIS	919 239
57	10*4051.256.5	H	5-11-7	DEWAY METCALF	919 241
58	10*1545	H	5-11-7	DILLON PITZENBERGER	925 329
59	10*1515	H	5-11-7	EARL W HARRIS	925 329
60	10*1560	H	5-11-7	GRACELA LARA BONAR	905 43
61	10*1501	H	5-11-7	HUGH R RUZZARD	904 638
62	10*1522	H	5-11-7	JACK L MASON AND JEAN M MASON	909 209
63	10*4051.256.22	I	5-11-7	JEFFREY THOMAS PILES AND TERESA A PILES	905 37
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(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 478,877.13 E. 1,633,289.15
 NAD'83 GEO. LAT-(N) 39.806648 LONG-(W) 80.693261
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LANDING POINT
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 NAD'83 GEO. LAT-(N) 39.785936 LONG-(W) 80.679997
 NAD'83 UTM (M) N. 4,404,047.6 E. 527,400.5

T.H.

REFERENCES



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'

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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, OCTOBER 9, 20 17
 REVISED 10-9-2017, 1-25-2018 & 1-29-2018
 OPERATORS WELL NO. HEAVEN HILL 3-7HU
 API WELL NO. 47-051-01969H6A
 STATE WV COUNTY MARSHALL PERMIT 01969H6A

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P7HUR3.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: GROUND = 1,340.10' 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 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: 19,282'

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

03/02/2018

COUNTY NO. _____ PERMIT _____