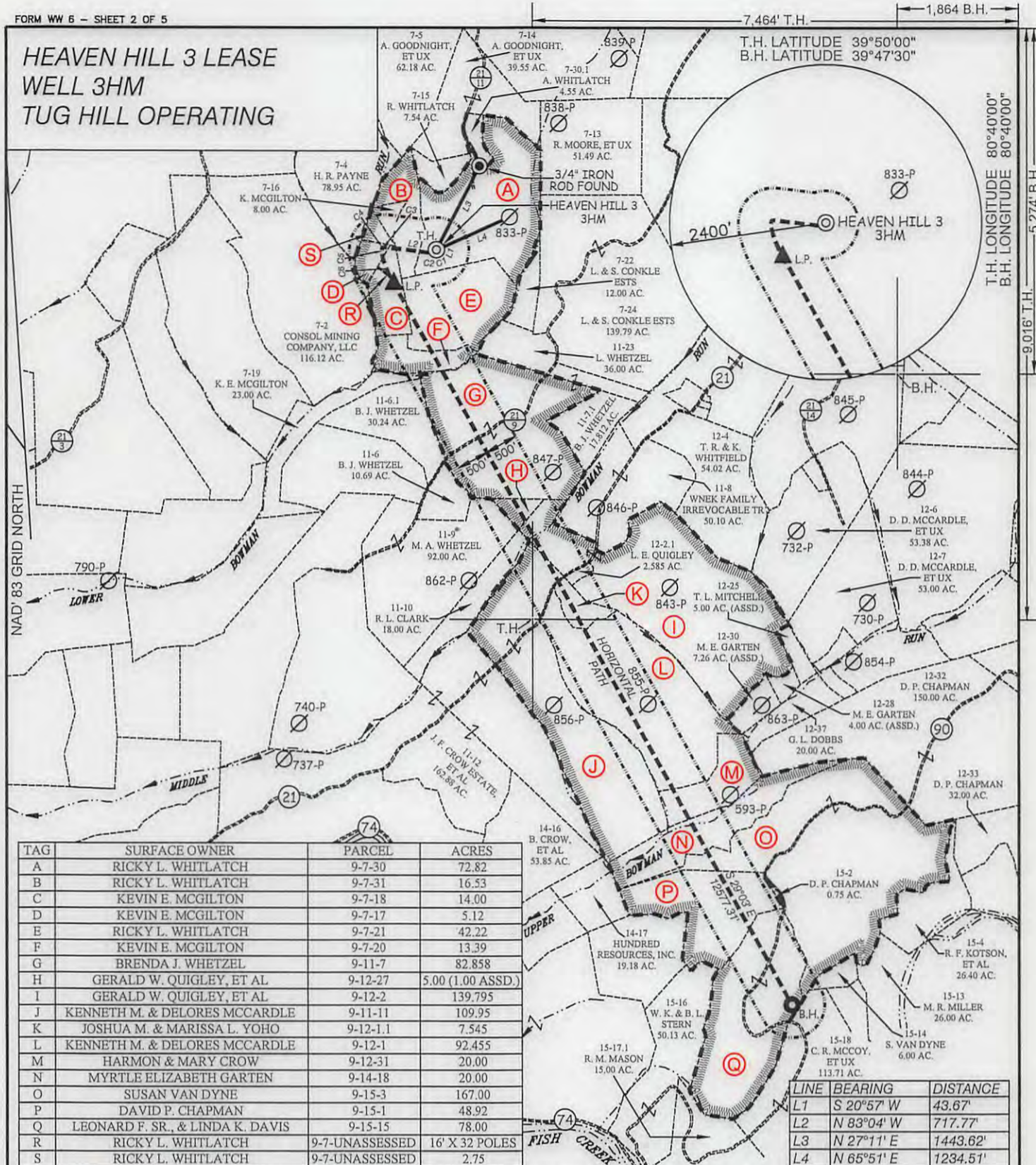


**HEAVEN HILL 3 LEASE
WELL 3HM
TUG HILL OPERATING**



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	KEVIN E. MCGILTON	9-7-17	5.12
E	RICKY L. WHITLATCH	9-7-21	42.22
F	KEVIN E. MCGILTON	9-7-20	13.39
G	BRENDA J. WHETZEL	9-11-7	82.858
H	GERALD W. QUIGLEY, ET AL	9-12-27	5.00 (1.00 ASSD.)
I	GERALD W. QUIGLEY, ET AL	9-12-2	139.795
J	KENNETH M. & DELORES MCCARDLE	9-11-11	109.95
K	JOSHUA M. & MARISSA L. YOHO	9-12-1.1	7.545
L	KENNETH M. & DELORES MCCARDLE	9-12-1	92.455
M	HARMON & MARY CROW	9-12-31	20.00
N	MYRTLE ELIZABETH GARTEN	9-14-18	20.00
O	SUSAN VAN DYNE	9-15-3	167.00
P	DAVID P. CHAPMAN	9-15-1	48.92
Q	LEONARD F. SR., & LINDA K. DAVIS	9-15-15	78.00
R	RICKY L. WHITLATCH	9-7-UNASSESSED	16' X 32 POLES
S	RICKY L. WHITLATCH	9-7-UNASSESSED	2.75

LINE	BEARING	DISTANCE
L1	S 20°57' W	43.67'
L2	N 83°04' W	717.77'
L3	N 27°11' E	1443.62'
L4	N 65°51' E	1234.51'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	10.59'	15.06'	S 62°31' W	10.37'
C2	58.89'	291.33'	N 89°19' W	58.79'
C3	23.72'	40.86'	S 85°24' W	23.39'
C4	23.92'	32.8'	S 42°22' W	23.39'
C5	78.08'	168.78'	S 02°45' W	77.38'
C6	495.95'	1617.99'	S 21°50' E	494.01'

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 | 12 Vanhorn Drive | Glenville, WV 26351 | (304) 462-6634
www.slsurveys.com

ju
7/5/17

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C. (FT) N. 478,853.76 E. 1,633,296.29
 NAD'83 GEO. LAT. (N) 39.808584 LONG. (W) 80.693234
 NAD'83 UTM (M) N. 4,406,557.30 E. 526,258.41
LANDING POINT
 NAD'83 S.P.C. (FT) N. 478,340.6 E. 1,632,641.1
 NAD'83 GEO. LAT. (N) 39.807152 LONG. (W) 80.695542
 NAD'83 UTM (M) N. 4,406,397.6 E. 528,061.4
BOTTOM HOLE
 NAD'83 S.P.C. (FT) N. 467,344.8 E. 1,638,746.8
 NAD'83 GEO. LAT. (N) 39.777188 LONG. (W) 80.673299
 NAD'83 UTM (M) N. 4,403,078.8 E. 527,977.5



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

SCALE 1" = 2000' FILE NO. 8654P3HM.dwg
 DATE JUNE 30, 20 17
 REVISED _____, 20 _____
 OPERATORS WELL NO. HEAVEN HILL 3-3HM
 API WELL 47 — 051 — 01963
 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 00—00
- LEASE # (SEE PGS. 3,4,5)
- SURFACE OWNER (SEE TABLE) **A**

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

10/27/2017

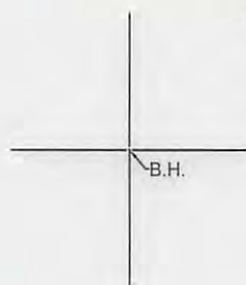
COUNTY NAME PERMIT

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

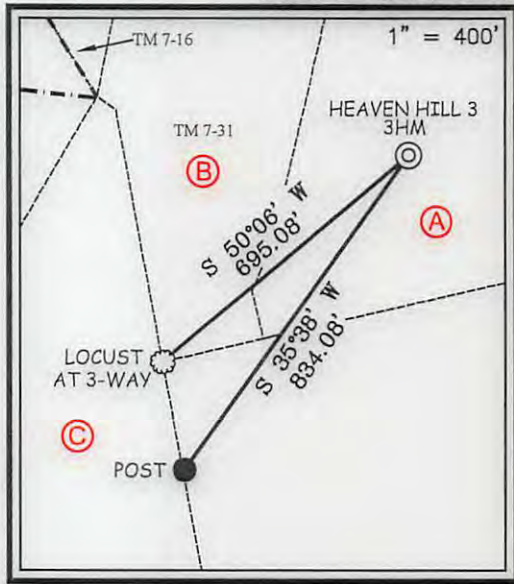
7,464' T.H. 1,864 B.H.
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"
9,016' T.H. 5,274' B.H.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 478,853.76	E. 1,633,296.29
NAD'83 GEO.	LAT-(N) 39.808584	LONG-(W) 80.693234
NAD'83 UTM (M)	N. 4,406,557.30	E. 526,258.41
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NAD'83 UTM (M)	N. 4,403,078.8	E. 527,977.5



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'



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 JUNE 30, 20 17
REVISED _____, 20 _____
OPERATORS WELL NO. HEAVEN HILL 3-3HM
API WELL NO. 47 - 051 - 01963
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P3HM.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 X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: GROUND = 1,343.0' 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 PGS. 3, 4 & 5 ACREAGE 72.82±

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X 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: 19,782'

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

COUNTY NAME PERMIT

10/27/2017