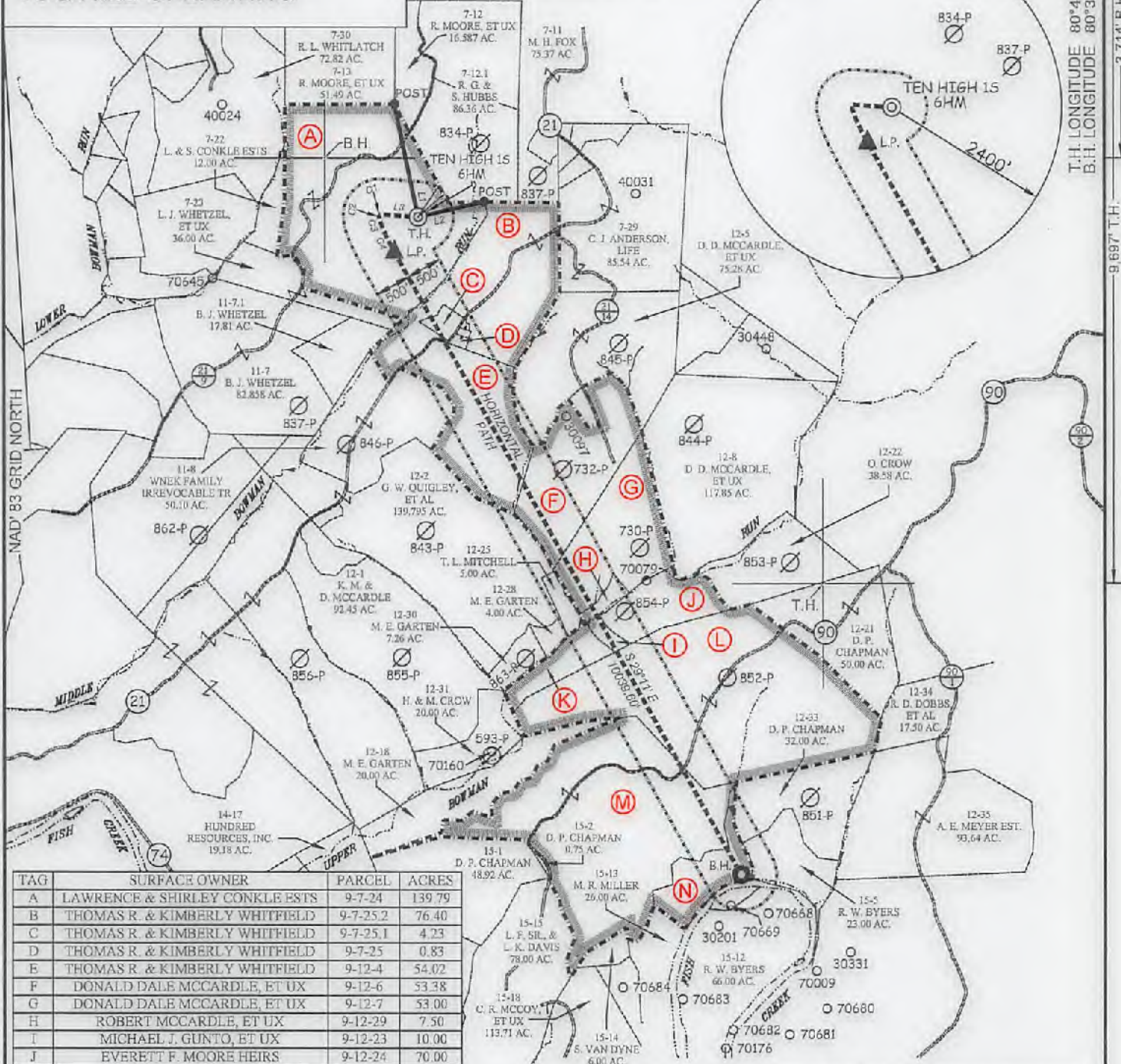


TEN HIGH 1S LEASE
WELL 6HM
TUG HILL OPERATING

LINE	BEARING	DISTANCE
L1	N 11°51' W	1615.56'
L2	N 77°01' E	957.10'
L3	N 86°07' W	546.40'

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

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
C	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.1	4.23
D	THOMAS R. & KIMBERLY WHITFIELD	9-7-25	0.83
E	THOMAS R. & KIMBERLY WHITFIELD	9-12-4	54.02
F	DONALD DALE MCCARDLE, ET UX	9-12-6	53.38
G	DONALD DALE MCCARDLE, ET UX	9-12-7	53.00
H	ROBERT MCCARDLE, ET UX	9-12-29	7.50
I	MICHAEL J. GUNTO, ET UX	9-12-23	10.00
J	EVERETT F. MOORE HEIRS	9-12-24	70.00
K	GARY L. DOBBS	9-12-37	20.00
L	DAVID P. CHAPMAN	9-12-32	150.00
M	SUSAN VAN DYNE	9-15-3	167.00
N	ROBERT FRANK KOTSON, ET AL	9-15-4	26.40

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	18.98'	12.82'	S 44°54' W	17.30'
C2	45.63'	145.20'	S 06°05' E	45.45'
C3	148.80'	1019.23'	S 19°38' E	148.67'
C4	368.72'	3691.14'	S 26°33' E	368.57'

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

P.S.
677

Gregory A. Smith

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

NAD'83 S.P.C.(FT)	N. 478,128.46	E. 1,693,777.36
NAD'83 GEO.	LAT-(N) 39.808714	LONG-(W) 80.680810
NAD'83 UTM (M)	N. 4,406,359.45	E. 527,322.64

LANDING POINT

NAD'83 S.P.C.(FT)	N. 477,633.4	E. 1,638,439.5
NAD'83 GEO.	LAT-(N) 39.805359	LONG-(W) 80.601990
NAD'83 UTM (M)	N. 4,406,202.4	E. 527,222.2

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 468,871.3	E. 1,641,335.1
NAD'83 GEO.	LAT-(N) 39.781471	LONG-(W) 80.664161
NAD'83 UTM (M)	N. 4,403,557.0	E. 528,759.3

GREGORY A. SMITH
No. 677
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

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

SCALE 1" = 2000' FILE NO. 8855P6HMR.dwg

DATE SEPTEMBER 13, 20 17
REVISED DECEMBER 18, 20 17

OPERATORS WELL NO. TEN HIGH 1S-6HM

API WELL NO. 47 - 051 - 01973H4A

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
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

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

03/09/2018

COUNTY NAME PERMIT

11,006' B.H.

3,973' T.H.

TEN HIGH 1S LEASE
WELL 6HM
TUG HILL OPERATING

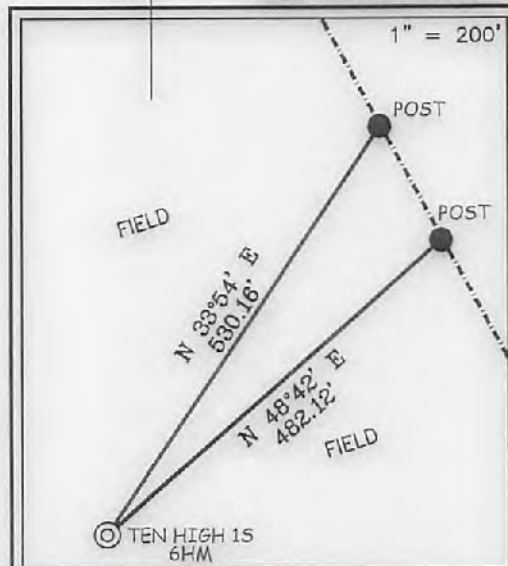
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 478,126.46	E. 1,636,777.38
NAD'83 GEO.	LAT-(N) 39.806714	LONG-(W) 80.680810
NAD'83 UTM (M)	N. 4,406,353.45	E. 527,322.64
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 477,638.4	E. 1,636,439.5
NAD'83 GEO.	LAT-(N) 39.805356	LONG-(W) 80.681980
NAD'83 UTM (M)	N. 4,406,202.4	E. 527,222.2
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 468,871.3	E. 1,641,335.1
NAD'83 GEO.	LAT-(N) 39.781471	LONG-(W) 80.664161
NAD'83 UTM (M)	N. 4,403,557.0	E. 526,758.3

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"
3,714' B.H.
9,697' 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'



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 SEPTEMBER 13, 20 17

REVISED DECEMBER 18, 20 17

OPERATORS WELL NO. TEN HIGH 1S-6HM

API WELL NO. 47 - 051 - 01973
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8855P6HMR.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 LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,318.70' PROPOSED = 1,310.06' WATERSHED MIDDLE BOWMAN RUN OF FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER LAWRENCE & SHIRLEY CONKLE ESTS ACREAGE 139.79±
ROYALTY OWNER ANDY PAUL & JACKIE KUHN, ET AL - WV-6A1 ACREAGE 139.79±

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: 6,865' / TMD: 17,141'

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

03/09/2018