

0,699' B.H.

4,042' T.H.

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°52'30"

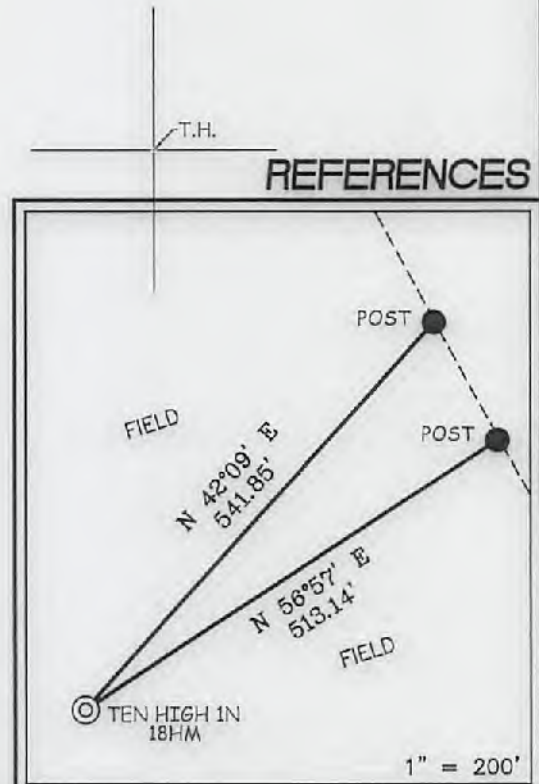
**TEN HIGH 1N LEASE
WELL 18HM
TUG HILL OPERATING**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 478,164.71 E. 1,636,709.52
 NAD'83 GEO. LAT-(N) 39.806817 LONG-(W) 80.687092
 NAD'83 UTM (M) N. 4,406,364.76 E. 527,301.77
LANDING POINT
 NAD'83 S.P.C.(FT) N. 479,769.1 E. 1,637,843.9
 NAD'83 GEO. LAT-(N) 39.811317 LONG-(W) 80.687092
 NAD'83 UTM (M) N. 4,406,865.4 E. 527,889.1
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 489,944.4 E. 1,632,205.0
 NAD'83 GEO. LAT-(N) 39.836989 LONG-(W) 80.697645
 NAD'83 UTM (M) N. 4,409,930.6 E. 525,889.5

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

TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	ROBERT G. & SCARLETT HUBBS	9-7-12.1	86.363
C	MARK H. FOX	9-7-11	75.37
D	ROBERT GLENN HUBBS, ET AL.	9-7-7	108.61
E	DAVID L. HOLMES, ET UX	9-5-14	37.345
F	DAVID L. HOLMES, ET UX	9-5-14.2	4.995
G	DAVID L. HOLMES, ET UX	9-5-14.5	1.66
H	BETTY R. OTT	9-5-14.4	10.501
I	LARRY L. CONKLE, JR	9-5-16	2.365
J	MARK H. FOX, ET UX	9-5-15	36.533
K	SCOTT A. HOSTUTLER	9-5-16.1	0.142
L	SCOTT A. HOSTUTLER	9-5-8	26.752
N	MISTY CROW WITH ROBERT & ELSIE WHETZEL (LIFE ESTATE)	9-5-8.2	1.973
O	RALPH E. WELLMAN, ET UX	9-5-22	0.5
P	RALPH E. WELLMAN, ET UX	9-5-23	1.00
Q	ALVIE & MARCELLA DARRAH	9-5-24	1.985
R	TRUSTEES OF M E CHURCH	NOT ASSD	1.00
S	M E CHURCH FROM THE MAP OF THE ESTATE OF EZEKIAL GORBY SHOWING PARTITION TO HIS LAST WILL - PLAT BK 2	NOT ASSD	NOT ASSD
T	JON B. CRAWFORD	9-5-6.1	4.679
U	NANCY L. SNYDER (LIFE ESTATE)	9-5-6	82.858
V	CNX LAND LLC	9-5-6.9	22.392
W	CLARA I. CROW	9-2-1	106.00

MAP/PARCEL	ADJOINING SURFACE OWNER LIST (SEE SHEET 2)	ACRES
9-1-14.1	ALICE J. & DOUGLAS J. MARTIN	0.905
9-5-5.1	DAVID M. TOLER, ET UX	0.985
9-5-6.2	MICHAEL JOSEPH SNYDER	2.82
9-5-6.3	DEUTSCHE BANK NATIONAL TRUST CO.	1.391
9-5-6.4	NANCY L. SNYDER	0.694
9-5-6.5	LINDA GORBY DELBERT	1.087
9-5-6.6	NANCY L. SNYDER	0.420
9-5-6.7	NANCY L. SNYDER	0.678
9-5-6.8	NANCY L. SNYDER	0.091
9-5-7	M E CHURCH	81.5 POLES 6 AC. (ASSD)
9-5-8.1	ISACC MCKINNEY, ET UX	2.875
9-5-11.2	LARRY WHETZEL JR.	2.355
9-5-12	LARRY WHETZEL JR.	1.00
9-5-13	SHELLY ANN JORDAN - GEORGIA JORDAN LIFE ESTATE	5.51
9-5-14.1	SAVANNA WEST, ET AL.	2.819
9-5-14.3	MARK FOX, ET UX	10.714
9-5-17	CARLA SUE CROW	6.341
9-5-19	BETTY R. OTT	0.933
9-5-20	KEITH WILSON - DONALD E. LEACH (LIFE ESTATE)	6.924
9-5-21	RALPH E. WELLMAN, ET UX	1.00
9-7-11.1	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	3.63
9-7-27	CAROL J. ANDERSON - LIFE	1.005
9-7-28	VICTOR & CLAIRE CAMERON	1.983
9-7-28.1	NATHAN WILLIAMS	2.768
9-7-29.1	CAROL J. ANDERSON - LIFE	5.004



NOTES ON SURVEY

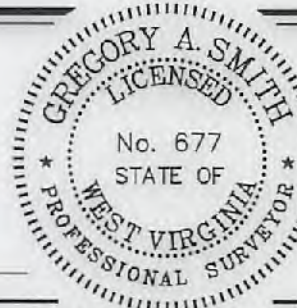
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 25351 • (304) 462-5834
www.slsurveys.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. 677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JANUARY 19, 20 18
 REVISED FEBRUARY 19 & MAY 23, 20 18
 OPERATORS WELL NO. TEN HIGH 1N-18HM
 API WELL NO. 47 - 051 - 02019 *H6A*
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P18HMR2.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 = 1,322.10' ELEVATION 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 - WW-6A1 ACREAGE 139.79± **06/01/2018**
 PROPOSED WORK: LEASE NO. SEE WW-6A1
 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: 19,738'

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

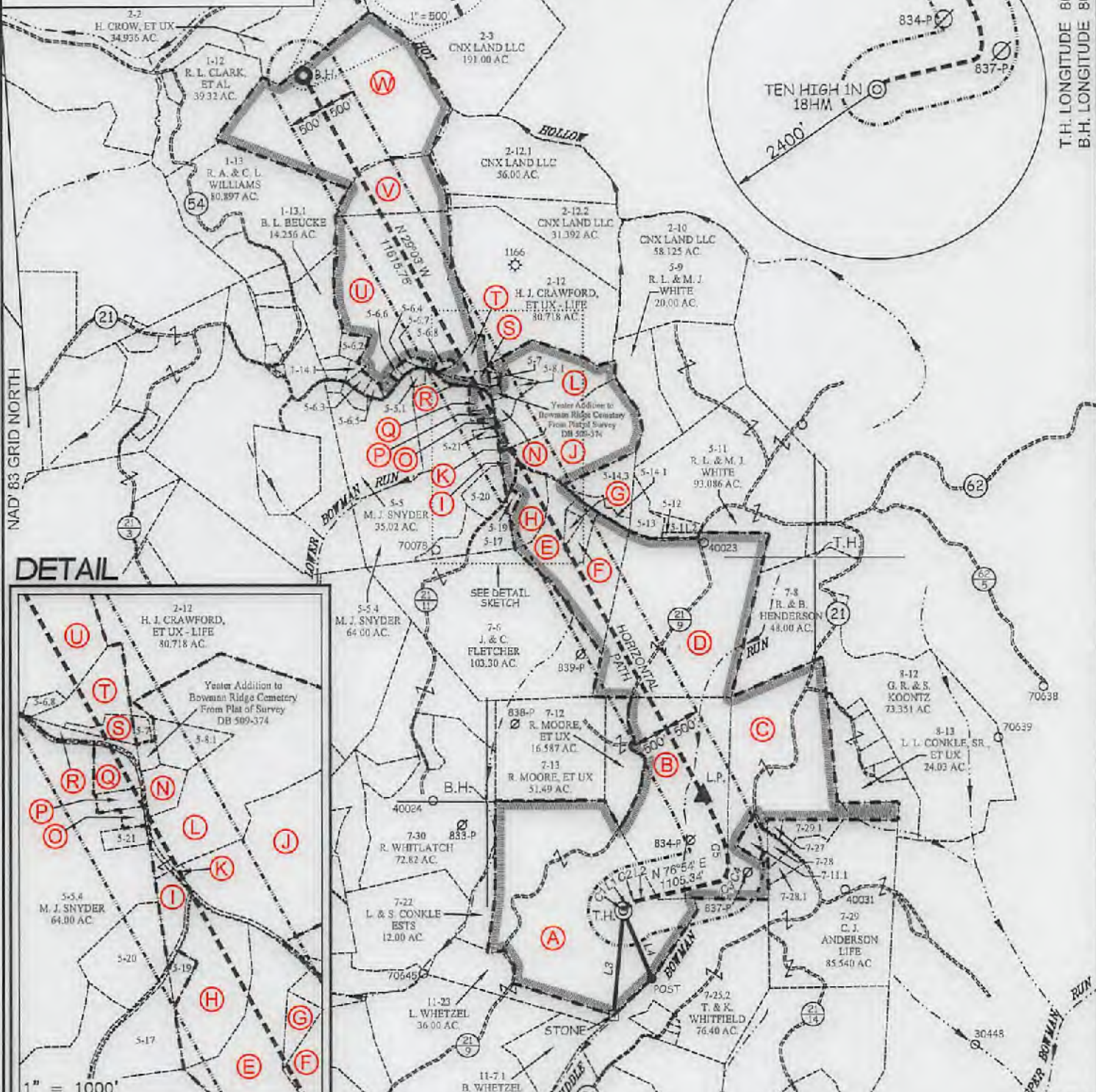
9,659' T.H. 13,118' B.H. COUNTY NAME PERMIT

**TEN HIGH 1N LEASE
WELL 18HM
TUG HILL OPERATING**

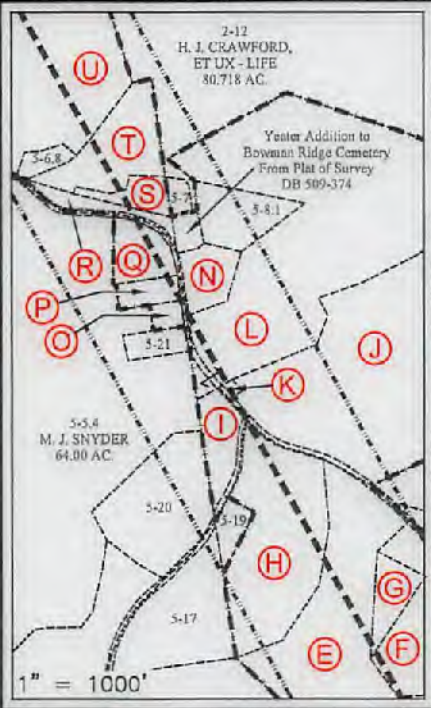
LINE	BEARING	DISTANCE
L1	N 50°57' E	137.23'
L2	N 74°57' E	105.13'
L3	S 05°28' W	1485.22'
L4	S 22°52' E	1039.74'

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°52'30"

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



DETAIL



SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26031 • (304) 452-5034
www.slsurveys.com

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	27.08'	30.69'	N 30°47' E	26.21'
C2	70.25'	294.72'	N 67°59' E	70.08'
C3	98.42'	135.54'	N 55°01' E	97.20'
C4	176.18'	321.30'	N 15°54' E	173.98'
C5	440.47'	994.55'	N 12°22' W	436.88'
C6	619.92'	8821.01'	N 25°03' W	619.79'

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

NAD83 S.P.C.(FT)	N. 476,164.71	E. 1,636,709.52
NAD83 GEO.	LAT-(N) 39.806817	LONG-(W) 80.681053
NAD83 UTM (M)	N. 4,406,364.76	E. 627,301.77

LANDING POINT

NAD83 S.P.C.(FT)	N. 479,769.1	E. 1,637,843.9
NAD83 GEO.	LAT-(N) 39.811317	LONG-(W) 80.677092
NAD83 UTM (M)	N. 4,406,865.4	E. 627,639.1

BOTTOM HOLE

NAD83 S.P.C.(FT)	N. 489,944.4	E. 1,632,205.0
NAD83 GEO.	LAT-(N) 39.838989	LONG-(W) 80.697645
NAD83 UTM (M)	N. 4,409,930.6	E. 525,659.5

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

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

P.S. 677
Gregory A. Smith

SCALE 1" = 2000' FILE NO. 3655P16HMR2.dwg
DATE JANUARY 19, 20 18
REVISED FEBRUARY 19 & MAY 23, 20 18
OPERATORS WELL NO. TEN HIGH 1N-18HM
API WELL NO. 47
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 FORT WORTH, TX 76107	ADDRESS	CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

NAD 83 GRID NORTH 9,669' T.H. 13,118' B.H.