

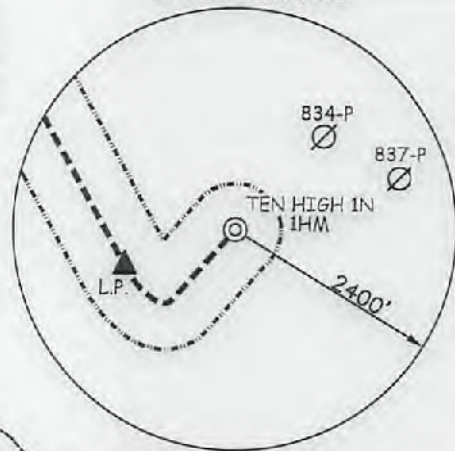
TEN HIGH 1N LEASE
WELL 1HM
TUG HILL OPERATING

| LINE | BEARING | DISTANCE |
|------|------------|----------|
| L1 | N 09°25' W | 1584.56' |
| L2 | N 78°54' E | 1024.63' |
| L3 | S 41°31' W | 1023.59' |

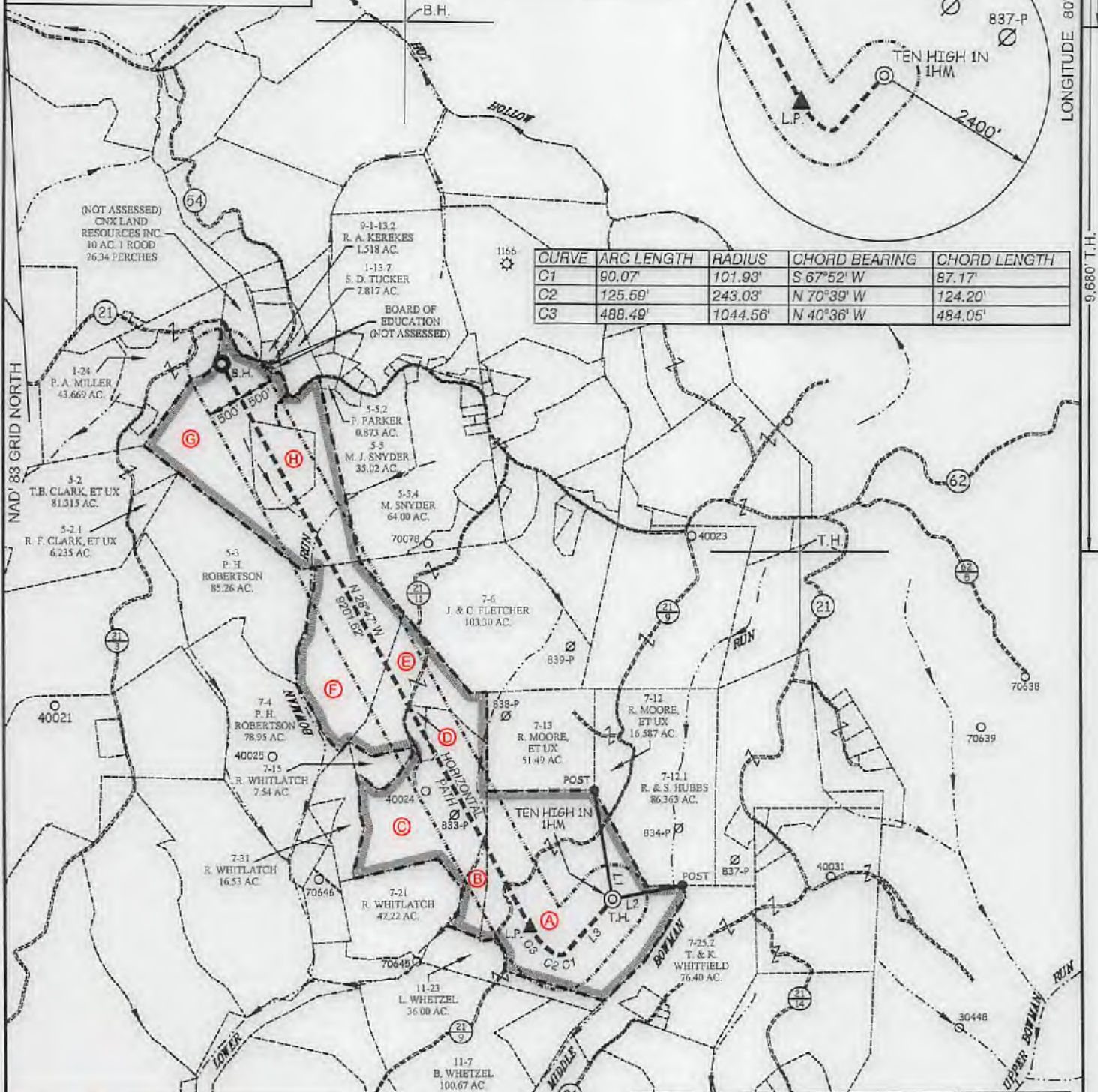
LATITUDE 39°50'00"

LONGITUDE 80°40'00"

9,680' T.H.



| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
|-------|------------|----------|---------------|--------------|
| C1 | 90.07' | 101.93' | S 67°52' W | 87.17' |
| C2 | 125.69' | 243.03' | N 70°39' W | 124.20' |
| C3 | 488.49' | 1044.56' | N 40°36' W | 484.05' |



| TAG | SURFACE OWNER | PARCEL | ACRES |
|-----|--------------------------------|----------|---------|
| A | LAWRENCE & SHIRLEY CONKLE ESTS | 9-7-24 | 139.79 |
| B | LAWRENCE & SHIRLEY CONKLE ESTS | 9-7-22 | 12.00 |
| C | RICKY L. WHITLATCH | 9-7-30 | 72.82 |
| D | ANDREW COREY WHITLATCH | 9-7-30.1 | 4.55 |
| E | ARNIE GOODNIGHT, ET UX | 9-7-14 | 39.55 |
| F | ARNIE GOODNIGHT, ET UX | 9-7-5 | 62.18 |
| G | ELMER ASTON | 9-5-4 | 108.225 |
| H | CONSOLIDATION COAL COMPANY | 9-5-4.1 | 22.775 |

P.O. Box 150 • 12 Vanham Drive • Glenville, WV 26031 • (804) 462-5634
www.slsurveys.com



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

P.S. 677 *Gregory A. Smith*

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)

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

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 478,144.32 | E. 1,696,704.52 |
| NAD'83 GEO. | LAT-(N) 39.803760 | LONG-(W) 80.681070 |
| NAD'83 UTM (M) | N. 4,406,368.52 | E. 527,300.35 |

LANDING POINT

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 477,753.8 | E. 1,635,613.2 |
| NAD'83 GEO. | LAT-(N) 39.805645 | LONG-(W) 80.685292 |
| NAD'83 UTM (M) | N. 4,406,283.4 | E. 525,939.4 |

BOTTOM HOLE

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 485,817.8 | E. 1,631,081.5 |
| NAD'83 GEO. | LAT-(N) 39.827620 | LONG-(W) 80.701449 |
| NAD'83 UTM (M) | N. 4,408,667.8 | E. 525,648.2 |

SCALE 1" = 2000' FILE NO. 8656P1HMR3.dwg

DATE JUNE 15, 20 17

REVISED 09/12/2017, 12/28/2017 & 02/19/18

OPERATORS WELL NO. TEN HIGH 1N-1HM

API WELL NO. 47 — **OSI** — 01943 *MOO*

NO. STATE COUNTY PERMIT

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

03/16/2018

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

COUNTY NAME PERMIT

9,769' B.H.

4,048' T.H.

LATITUDE 39°50'00"

TEN HIGH 1N LEASE
WELL 1HM
TUG HILL OPERATING

B.H.

| | | | |
|--|-------------------|--------------------|--|
| (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH) | | | |
| NAD'83 S.P.C.(FT) | N. 476,144.92 | E. 1,838,704.52 | |
| NAD'83 GEO. | LAT-(N) 39.806760 | LONG-(W) 80.681070 | |
| NAD'83 UTM (M) | N. 4,408,358.52 | E. 527,300.35 | |
| LANDING POINT | | | |
| NAD'83 S.P.C.(FT) | N. 477,753.8 | E. 1,835,513.2 | |
| NAD'83 GEO. | LAT-(N) 39.805645 | LONG-(W) 80.685292 | |
| NAD'83 UTM (M) | N. 4,408,233.4 | E. 526,939.4 | |
| BOTTOM HOLE | | | |
| NAD'83 S.P.C.(FT) | N. 485,817.8 | E. 1,831,081.5 | |
| NAD'83 GEO. | LAT-(N) 39.827620 | LONG-(W) 80.701449 | |
| NAD'83 UTM (M) | N. 4,408,657.6 | E. 525,548.2 | |

LONGITUDE 80°40'00"

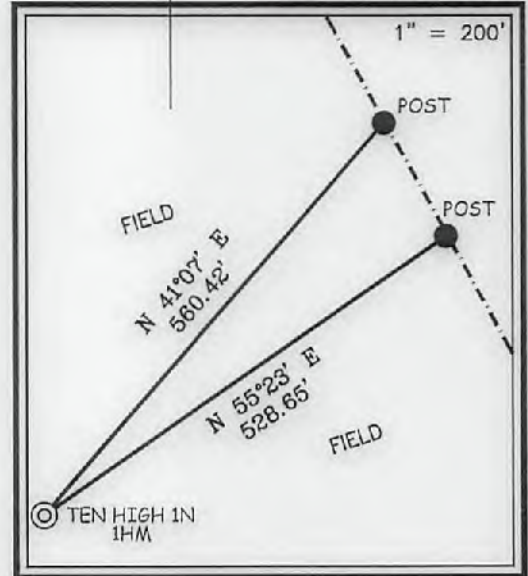
2,081' B.H.

9,680' T.H.

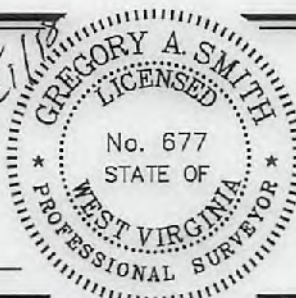
NOTES ON SURVEY

- 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'

REFERENCES



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JUNE 15, 20 17
REVISED 09/12/2017, 12/26/2017 & 02/19/18
OPERATORS WELL NO. TEN HIGH 1N-1HM
API WELL NO. 47-051-01943 *MOD*
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P1HMR3.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: ELEVATION GROUND = 1,320.30' 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 - SEE WW-6A1 ACREAGE 139.79±

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: 16,501'

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

COUNTY NAME PERMIT

03/16/2018