

7,193' B.H. 3,998" T.H.

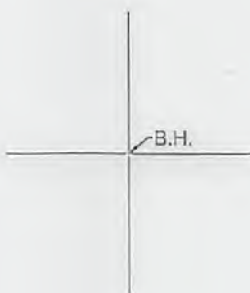
LATITUDE 39°50'00"

TEN HIGH 1N LEASE
WELL 12HU
TUG HILL OPERATING

LONGITUDE 80°40'00"
3,818' B.H.
8,691' T.H.

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

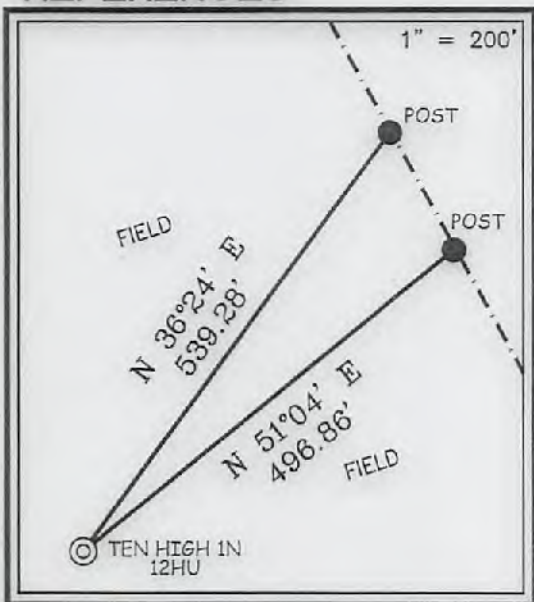
NAD'83 S.P.C.(FT)	N. 478,132.41	E. 1,636,753.07
NAD'83 GEO.	LAT-(N) 39.806729	LONG-(W) 80.690897
NAD'83 UTM (M)	N. 4,406,355.14	E. 527,315.21
<u>LANDING POINT</u>		
NAD'83 S.P.C.(FT)	N. 478,466.4	E. 1,636,736.1
NAD'83 GEO.	LAT-(N) 39.807646	LONG-(W) 80.690973
NAD'83 UTM (M)	N. 4,406,456.8	E. 527,308.3
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 484,047.4	E. 1,633,934.6
NAD'83 GEO.	LAT-(N) 39.822853	LONG-(W) 80.692276
NAD'83 UTM (M)	N. 4,408,141.3	E. 526,335.0



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"=200'

REFERENCES



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	ROBERT G. HUBES & SCARLETTE E. OTTE	9-7-12.1	86.363
C	RONALD MOORE, ET UX	9-7-12	16.587
D	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-22	12.00
E	RICKY L. WHITLATCH	9-7-30	72.82
F	ANDREW COREY WHITLATCH	9-7-30.1	4.55
G	RONALD MOORE, ET UX	9-7-13	51.49
H	RICKY L. WHITLATCH	9-7-15	7.54
I	ARNIE GOODNIGHT, ET UX	9-7-14	39.55
J	TERESA L. HORNER, ET AL	9-7-6	103.30
K	ARNIE GOODNIGHT, ET UX	9-7-5	62.18
L	ELMER ASTON	9-5-4	108.225
M	MICHAEL JOSEPH SNYDER	9-5-4	64.00
N	KELLY WILSON, ET AL	9-5-18	5.807
O	CARLA SUE CROW	9-5-17	6.341
P	MICHAEL JOSEPH SNYDER	9-5-5	35.02



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 JULY 21, 20 17
REVISED JANUARY 10 & FEBRUARY 8, 20 18
OPERATORS WELL NO. TEN HIGH 1N-12HU
API WELL NO. 47-051-01961 **H6A**
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P12HUR2.dwg
SCALE 1" = 1000'
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 = 1,320.70' 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 LARRY LEE CONKLE, ET AL - SEE PGS. 3, 4, 5, 6 & 7 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

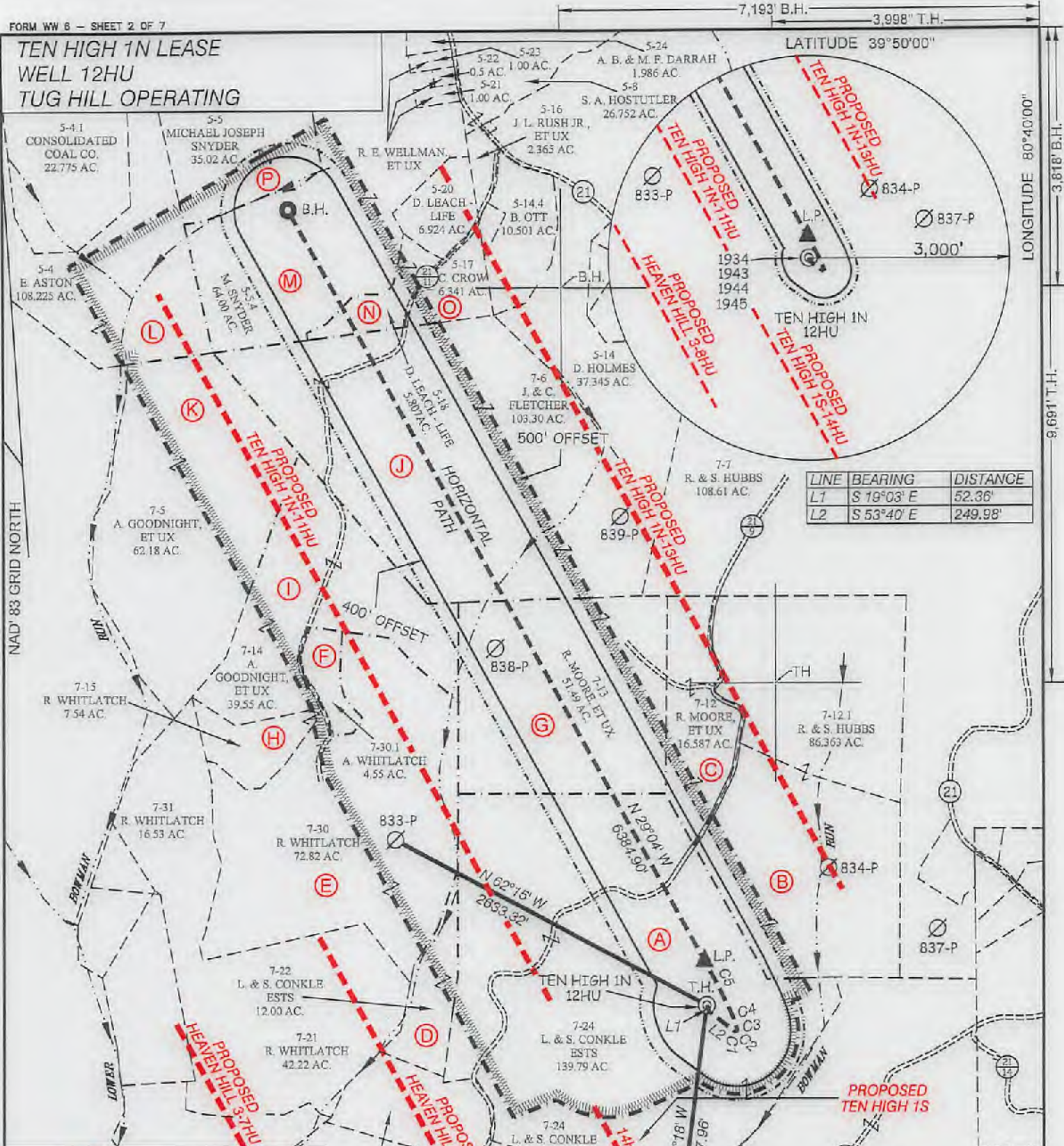
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,878' / TMD: 18,372'

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

06/15/2018

**TEN HIGH 1N LEASE
WELL 12HU
TUG HILL OPERATING**



LINE	BEARING	DISTANCE
L1	S 19°03' E	52.36'
L2	S 53°40' E	249.98'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	7.08'	6.52'	N 87°13' E	6.74'
C2	7.94'	7.86'	N 22°59' E	7.61'
C3	33.11'	132.05'	N 11°52' W	33.03'
C4	154.60'	1339.22'	N 22°15' W	154.51'
C5	392.60'	5773.52'	N 27°18' W	392.52'

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26031 • (304) 462-3634
www.slsurveyors.com

P.S. 677
Gregory A. Smith



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

LEGEND

- UNIT BOUNDARY
- LEASED TRACTS INSIDE UNIT BOUNDARY
- SURFACE LINE
- DEED WELL LATERAL WITHIN 300'
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE-SHEET 1) LEASE # (SEE PGS. 3,4,5,6&7)

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
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SCALE 1" = 1000' FILE NO. 8655P12HUR2.dwg
DATE JULY 21, 20 17
REVISED JANUARY 10 & FEBRUARY 8, 20 18
OPERATORS WELL NO. TEN HIGH 1N-12HU
API WELL NO. 47-051-1961 H6A
NO. STATE COUNTY PERMIT

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

06/15/2018

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