

10,619' B.H.

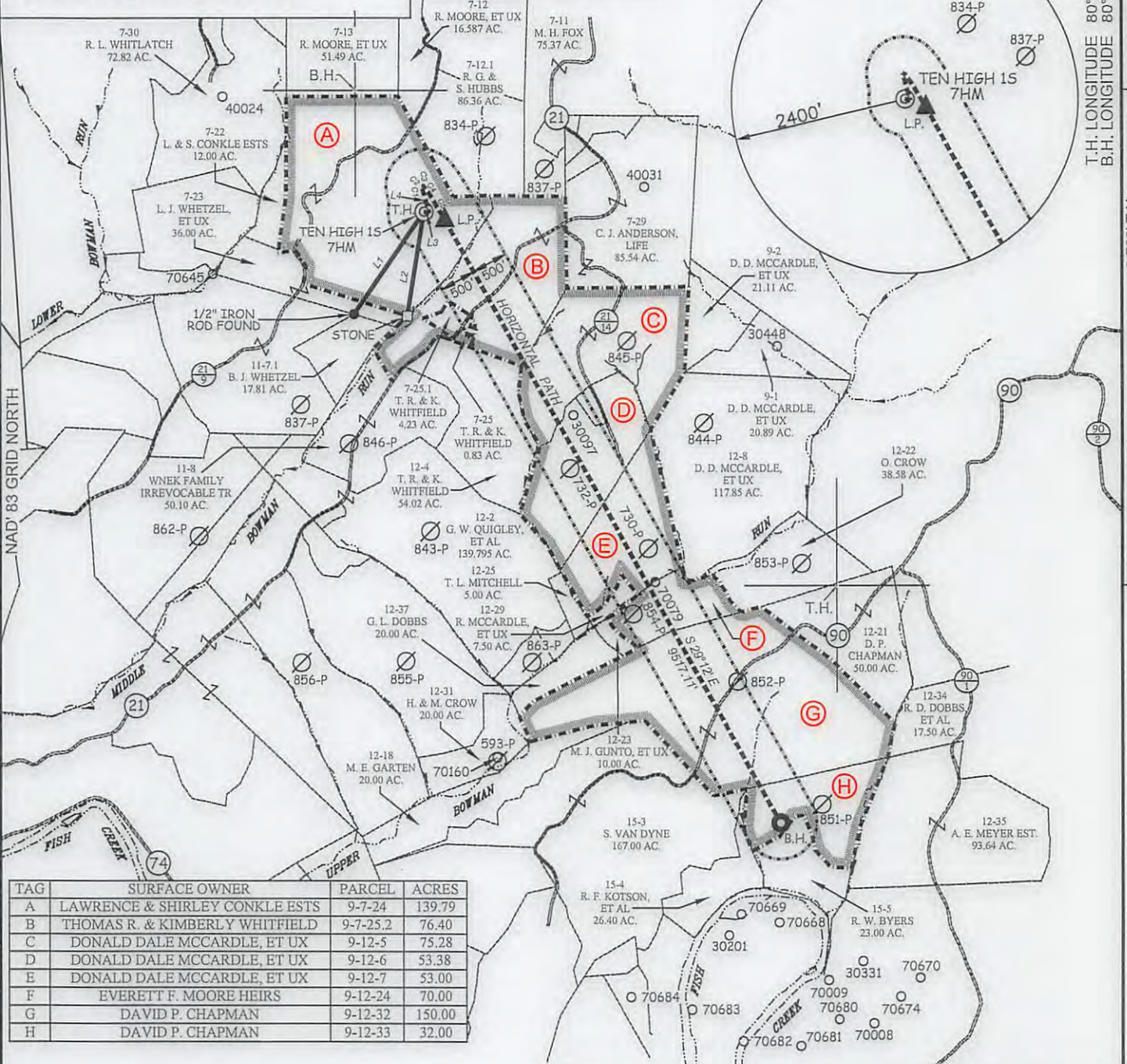
3,949' T.H.

TEN HIGH 1S LEASE
WELL 7HM
TUG HILL OPERATING

LINE	BEARING	DISTANCE
L1	S 34°38' W	1715.22'
L2	S 09°15' W	7453.16'
L3	S 77°44' E	76.50'
L4	N 16°07' W	354.75'

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	DONALD DALE MCCARDLE, ET UX	9-12-5	75.28
D	DONALD DALE MCCARDLE, ET UX	9-12-6	53.38
E	DONALD DALE MCCARDLE, ET UX	9-12-7	53.00
F	EVERETT F. MOORE HEIRS	9-12-24	70.00
G	DAVID P. CHAPMAN	9-12-32	150.00
H	DAVID P. CHAPMAN	9-12-33	32.00

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	27.17'	136.56'	N 10°59' W	27.13'
C2	10.46'	9.47'	N 24°38' E	9.94'
C3	14.20'	25.69'	S 63°47' E	14.02'
C4	169.77'	902.92'	S 37°19' E	169.52'
C5	383.86'	5588.20'	S 30°59' E	383.78'

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Solutions from the ground up.
P.O. Box 150 | 12 Vianthorn Drive | Glenville, WV 26351 | (304) 462-5634
www.slsurveys.com

P.S.
677

Gregory A. Smith

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

NAD'83 S.P.C. (FT)	N. 478,120.50	E. 1,636,801.64
NAD'83 GEO.	LAT-(N) 39.806699	LONG-(W) 80.680724
NAD'83 UTM (M)	N. 4,406,351.76	E. 527,330.06

LANDING POINT

NAD'83 S.P.C. (FT)	N. 478,010.7	E. 1,637,089.8
NAD'83 GEO.	LAT-(N) 39.806408	LONG-(W) 80.679693
NAD'83 UTM (M)	N. 4,406,319.8	E. 527,418.4

BOTTOM HOLE

NAD'83 S.P.C. (FT)	N. 469,702.5	E. 1,641,731.9
NAD'83 GEO.	LAT-(N) 39.783767	LONG-(W) 80.662788
NAD'83 UTM (M)	N. 4,403,812.3	E. 528,874.9

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

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

SCALE 1" = 2000' FILE NO. 8655P7HMR.dwg

DATE SEPTEMBER 13, 2017
REVISED DECEMBER 18, 2017

OPERATORS WELL NO. TEN HIGH 1S-7HM

API WELL NO. 47 — 051 — 01974H6A

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) (A)
- LEASE # (SEE WW-6A1)

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

03/09/2018

COUNTY NAME PERMIT

10,619' B.H.

3,949' T.H.

TEN HIGH 1S LEASE
WELL 7HM
TUG HILL OPERATING

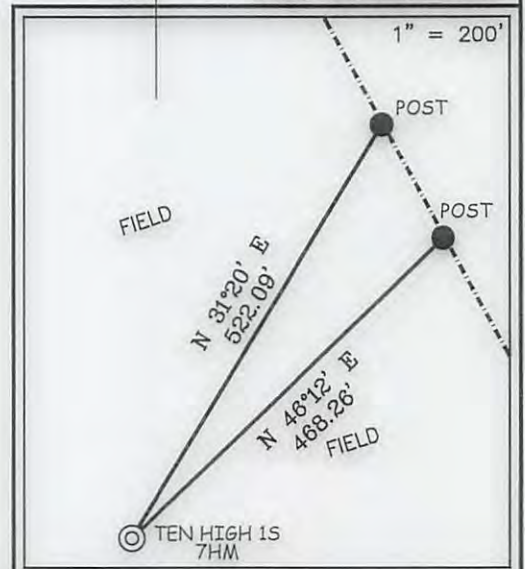
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9,702' T.H.

B.H.

REFERENCES



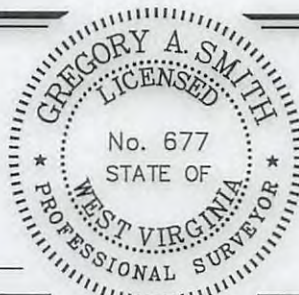
NOTES ON SURVEY

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'

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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-7HM
API WELL NO. 47-051-01974 H6A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P7HMR.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: ELEVATION GROUND = 1,315.70' 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 - WW-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: 16,639'

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

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