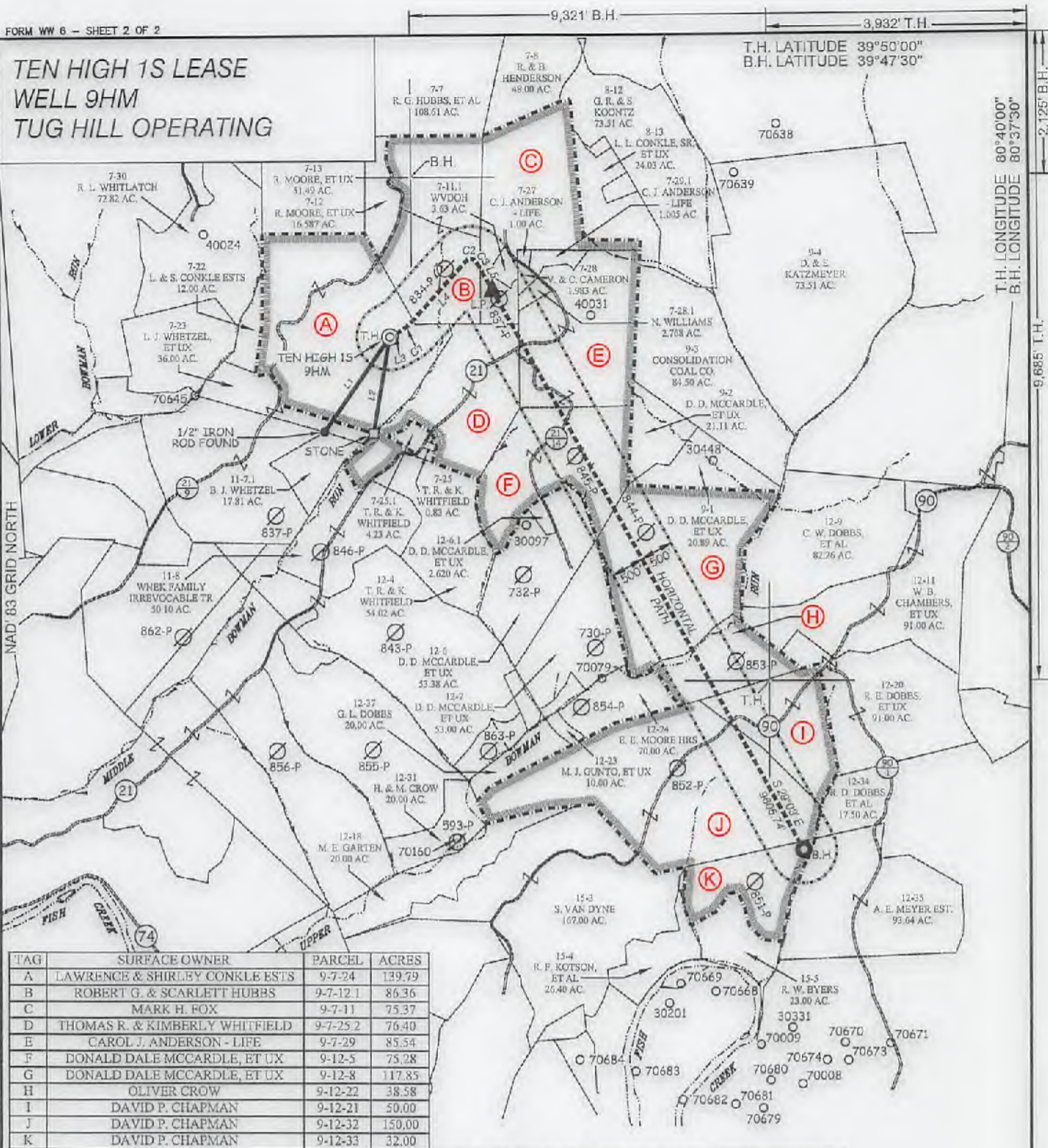


**TEN HIGH 1S LEASE
WELL 9HM
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	ROBERT G. & SCARLETT HUBBS	9-7-12.1	86.36
C	MARK H. FOX	9-7-11	75.37
D	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
E	CAROL J. ANDERSON - LIFE	9-7-29	85.54
F	DONALD DALE MCCARDLE, ET UX	9-12-5	75.28
G	DONALD DALE MCCARDLE, ET UX	9-12-8	117.85
H	OLIVER CROW	9-12-22	38.58
I	DAVID P. CHAPMAN	9-12-21	50.00
J	DAVID P. CHAPMAN	9-12-32	150.00
K	DAVID P. CHAPMAN	9-12-33	32.00

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	175.57'	573.01'	N 50°51' E	174.89'
C2	165.74'	93.94'	N 89°15' E	146.07'
C3	84.34'	314.07'	S 35°33' E	84.09'

LINE	BEARING	DISTANCE
L1	S 34°48' W	1739.30'
L2	S 09°48' W	1473.18'
L3	N 60°57' E	203.25'
L4	N 42°13' E	1254.70'
L5	S 29°03' E	426.90'

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

P.S.
677

Gregory A. Smith

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

NAD83 S.P.C (FT)	N. 478,137.92	E. 1,636,818.78
NAD83 GEO.	LAT-(N) 39.806747	LONG-(W) 80.880883
NAD83 UTM (M)	N. 4,405,857.15	E. 527,335.20
LANDING POINT		
NAD83 S.P.C.(FT)	N. 478,836.6	E. 1,638,976.3
NAD83 GEO.	LAT-(N) 39.808721	LONG-(W) 80.678152
NAD83 UTM (M)	N. 4,408,577.9	E. 527,800.1
BOTTOM HOLE		
NAD83 S.P.C.(FT)	N. 470,498.7	E. 1,643,099.8
NAD83 GEO.	LAT-(N) 39.796834	LONG-(W) 80.658169
NAD83 UTM (M)	N. 4,404,043.2	E. 529,299.8



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

SCALE 1" = 2000' FILE NO. 8655P9HMR.dwg
DATE SEPTEMBER 13, 20 17
REVISED DECEMBER 18, 20 17
OPERATORS WELL NO. TEN HIGH 1S-9HM
API WELL NO. 47 — 051 — 01976H6A
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	00-00
SURFACE OWNER (SEE TABLE)	(A)
LEASE # (SEE WW-6A1)	

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

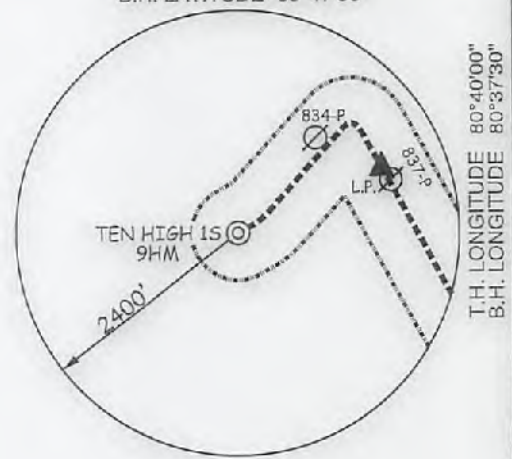
DESIGNATED AGENT DIANNA STAMPER
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME PERMIT

03/09/2018

TEN HIGH 1S LEASE
WELL 9HM
TUG HILL OPERATING

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

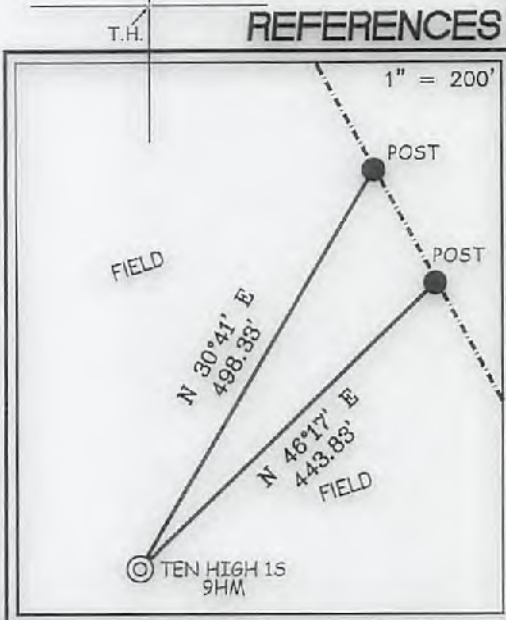


(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 478,137.92	E. 1,636,816.78
NAD'83 GEO.	LAT-(N) 39.806747	LONG-(W) 80.680663
NAD'83 UTM (M)	N. 4,406,357.15	E. 527,335.20
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 478,836.6	E. 1,638,376.3
NAD'83 GEO.	LAT-(N) 39.808721	LONG-(W) 80.675152
NAD'83 UTM (M)	N. 4,406,577.9	E. 527,906.1
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 470,488.7	E. 1,643,039.6
NAD'83 GEO.	LAT-(N) 39.785834	LONG-(W) 80.658189
NAD'83 UTM (M)	N. 4,404,043.2	E. 529,269.6



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 825' OF THE CENTER OF PROPOSED WELL PAD.
- 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-9HM
API WELL NO. 47 - 051 - 0976
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P9HMR.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 <input type="checkbox"/>	GAS <input checked="" type="checkbox"/>	LIQUID INJECTION <input type="checkbox"/>	WASTE DISPOSAL <input type="checkbox"/>	IF "GAS" PRODUCTION <input checked="" type="checkbox"/>	STORAGE <input type="checkbox"/>	DEEP <input type="checkbox"/>	SHALLOW <input checked="" type="checkbox"/>	
LOCATION:	GROUND = 1,317.00' PROPOSED = 1,310.06'								
ELEVATION:	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:	LEASE NO. <u>SEE WW-03/09/2018</u>								
DRILL <input checked="" type="checkbox"/>	CONVERT <input type="checkbox"/>	DRILL DEEPER <input type="checkbox"/>	REDRILL <input type="checkbox"/>	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION <input type="checkbox"/>	PERFORATE NEW FORMATION <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	CLEAN OUT AND REPLUG <input type="checkbox"/>	OTHER <input type="checkbox"/>
PHYSICAL CHANGE IN WELL (SPECIFY):					TARGET FORMATION:	MARCELLUS			
					ESTIMATED DEPTH:	TVD: 6,865' / TMD: 17,091'			

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