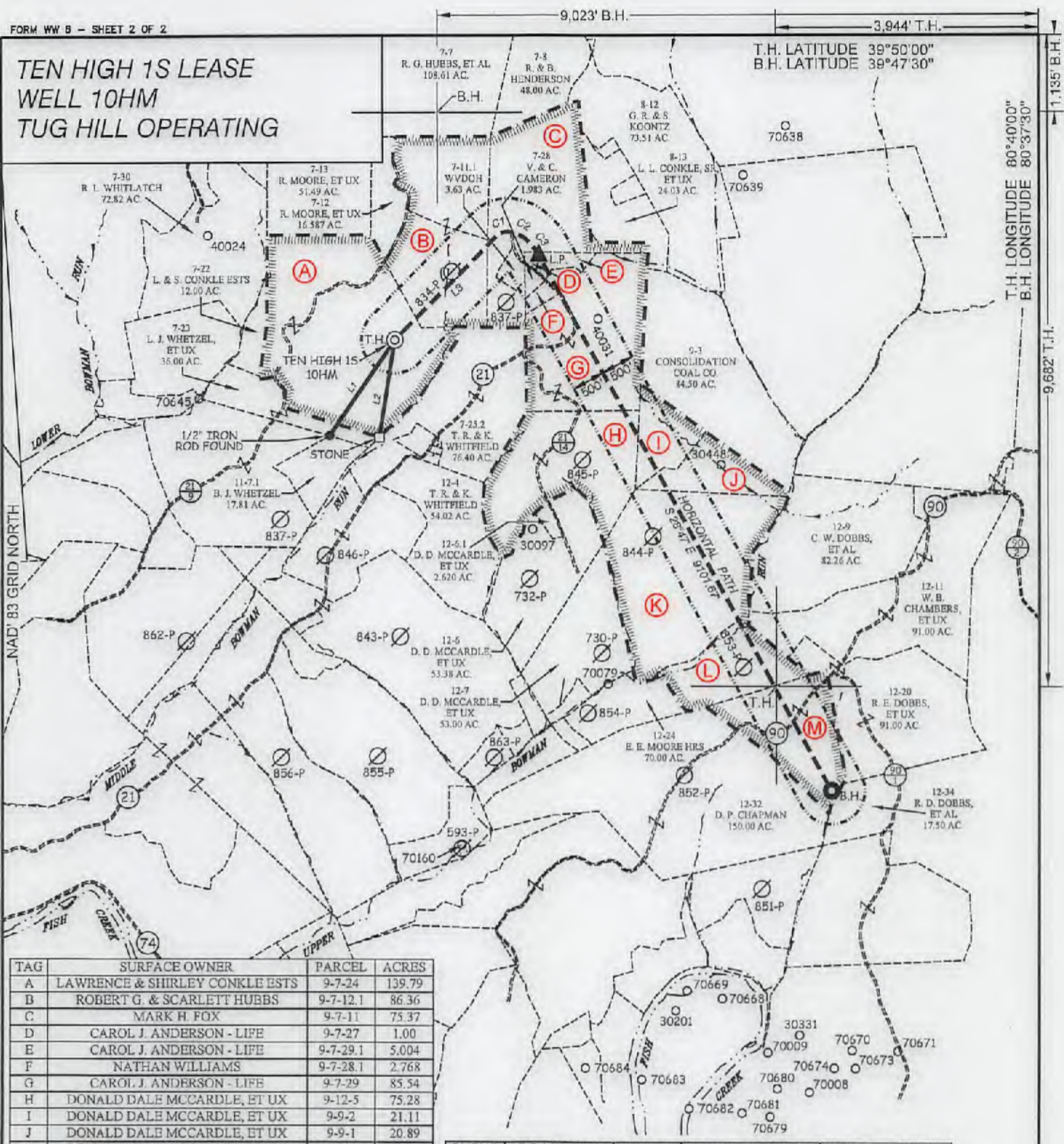


TEN HIGH 1S LEASE
WELL 10HM
TUG HILL OPERATING

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	ROBERT G. & SCARLETT HUBBS	9-7-12.1	86.36
C	MARK H. FOX	9-7-11	75.37
D	CAROL J. ANDERSON - LIFE	9-7-27	1.00
E	CAROL J. ANDERSON - LIFE	9-7-29.1	5,004
F	NATHAN WILLIAMS	9-7-28.1	2,768
G	CAROL J. ANDERSON - LIFE	9-7-29	85.54
H	DONALD DALE MCCARDLE, ET UX	9-12-5	75.28
I	DONALD DALE MCCARDLE, ET UX	9-9-2	21.11
J	DONALD DALE MCCARDLE, ET UX	9-9-1	20.89
K	DONALD DALE MCCARDLE, ET UX	9-12-8	117.85
L	OLIVER CROW	9-12-22	38.58
M	DAVID P. CHAPMAN	9-12-21	50.00

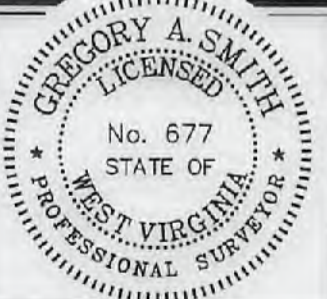
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	224.63'	240.52'	N 70°13' E	216.55'
C2	280.35'	482.44'	S 64°31' E	276.43'
C3	300.91'	863.76'	S 38°41' E	299.35'

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LINE	BEARING	DISTANCE
L1	S 34°23' W	1734.88'
L2	S 09°19' W	1474.10'
L3	N 44°39' E	2164.55'

P.S.
677
Gregory A. Smith

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 478,140.90 E. 1,636,808.64
 NAD'83 GEO. LAT-(N) 39.806755 LONG-(W) 80.680707
 NAD'83 UTM (M) N. 4,406,359.00 E. 527,391.40
LANDING POINT
 NAD'83 S.P.C.(FT) N. 479,401.6 E. 1,636,969.1
 NAD'83 GEO. LAT-(N) 39.810298 LONG-(W) 80.673072
 NAD'83 UTM (M) N. 4,406,753.1 E. 527,983.6
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 471,424.4 E. 1,643,350.4
 NAD'83 GEO. LAT-(N) 39.788551 LONG-(W) 80.657108
 NAD'83 UTM (M) N. 4,404,345.1 E. 529,359.3



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

SCALE 1" = 2000' FILE NO. 8655P10HMR.dwg
 DATE SEPTEMBER 13, 20 17
 REVISED DECEMBER 18, 20 17
 OPERATORS WELL NO. TEN HIGH 1S-10HM
 API WELL NO. 47 - 051 - 02074 H6A
 NO. STATE COUNTY PERMIT

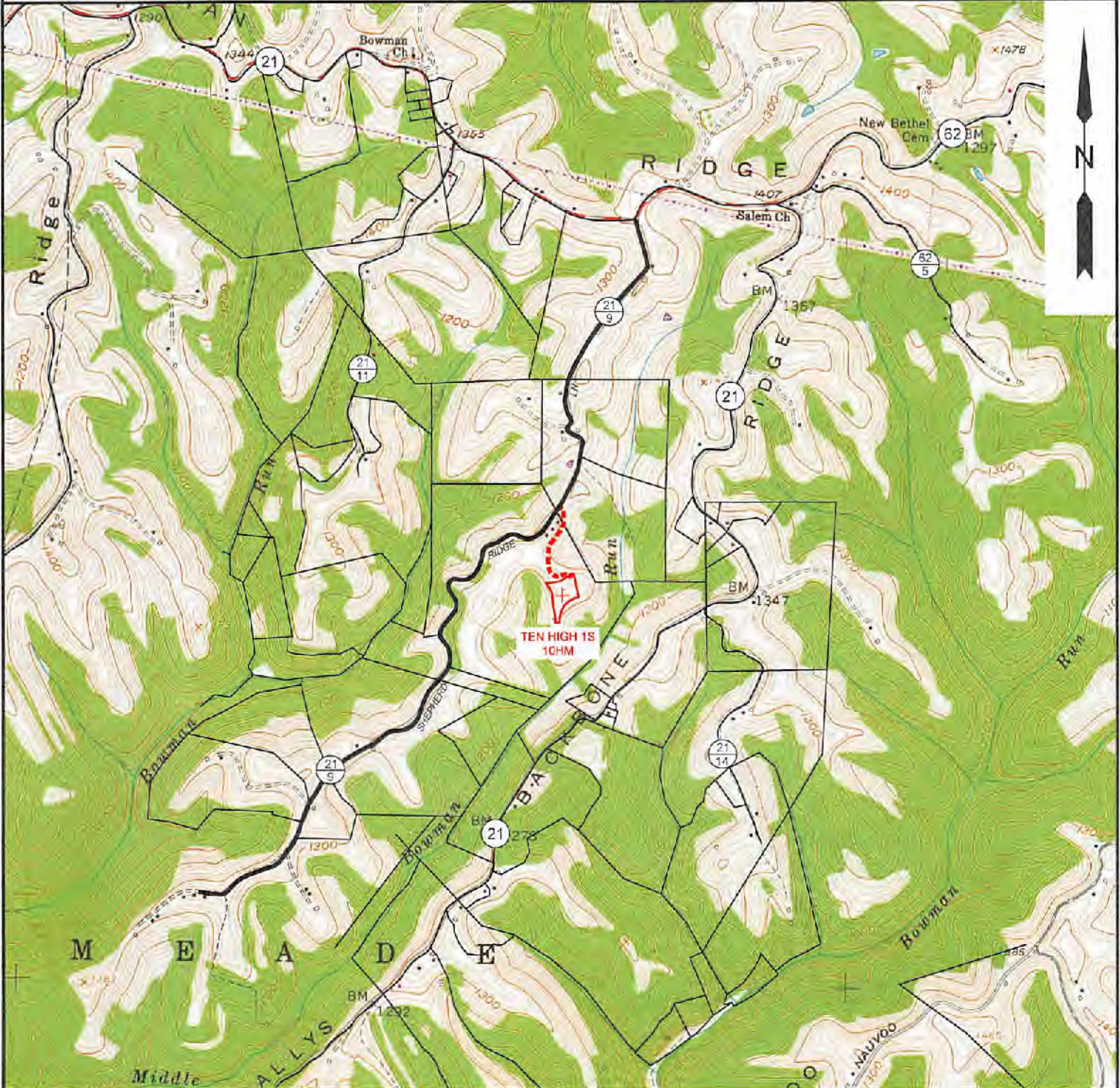
STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- THE 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 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



NOTE: CLOSEST WATER PURVEYOR
GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT
PROCTOR, WV

LAT: 39.7137712
LON: -80.8258327
LOCATED: S 51°03'40" W AT 52.970' FROM TEN HIGH 1S - 10HM SURFACE LOCATION



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TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
DRAWN BY		DATE	SCALE
K.G.M.		09-13-17	1" = 2000'



TUG HILL
OPERATING

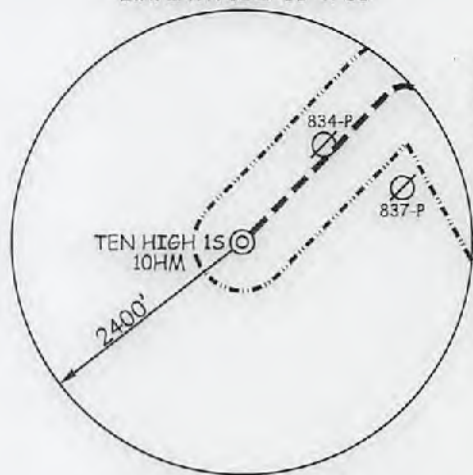
TEN HIGH 1S LEASE
WELL 10HM
TUG HILL OPERATING

B.H.

9,023' B.H.

3,944' T.H.

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



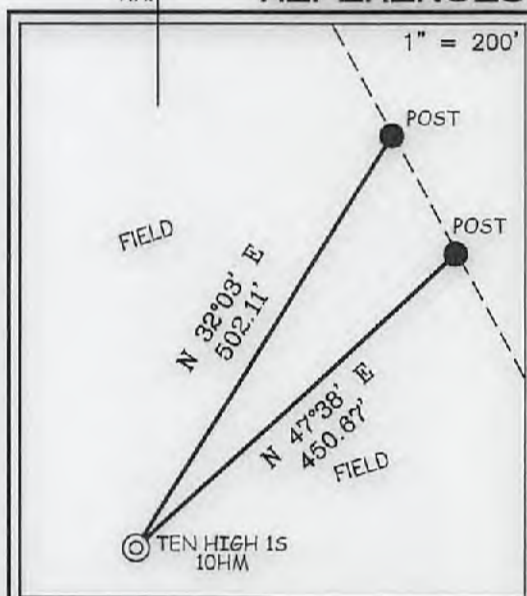
T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

9,682' T.H.

1,135' B.H.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 478,140.90	E. 1,658,806.64
NAD'83 GEO.	LAT-(N) 39.808755	LONG-(W) 80.880707
NAD'83 UTM (M)	N. 4,406,953.00	E. 527,331.48
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 479,401.6	E. 1,638,968.1
NAD'83 GEO.	LAT-(N) 39.810293	LONG-(W) 80.873072
NAD'83 UTM (M)	N. 4,406,753.1	E. 527,983.6
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 471,424.4	E. 1,643,350.4
NAD'83 GEO.	LAT-(N) 39.788551	LONG-(W) 80.857108
NAD'83 UTM (M)	N. 4,404,345.1	E. 529,359.3

REFERENCES



NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS \geq 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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www.slsurvey.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 SEPTEMBER 13, 20 17
REVISED DECEMBER 18, 20 17
OPERATORS WELL NO. TEN HIGH 1S-10HM
API WELL NO. 47 - 051 - 02074 ^{H6A}
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P10HMR.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 = 1,318.60' 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±

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: 17,011'

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 ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME

PERMIT