

**OLD CROW N LEASE
WELL 8HM
TUG HILL OPERATING**

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

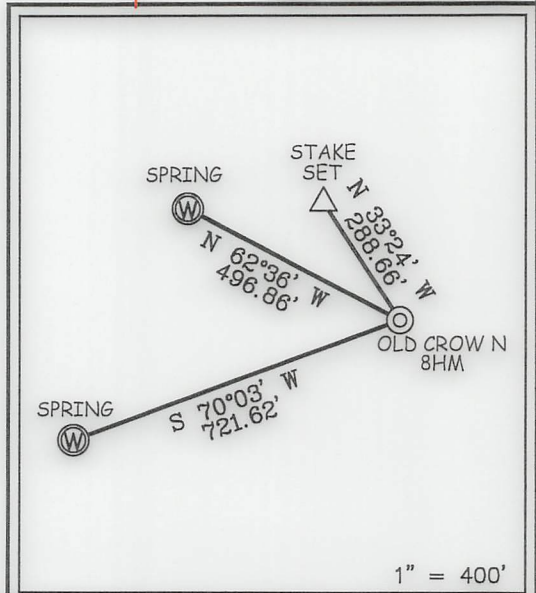
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)		
NAD'83 S.P.C.(FT)	N. 468,154.90	E. 1,613,539.62
NAD'83 GEO.	LAT-(N) 39.778474	LONG-(W) 80.763018
NAD'83 UTM (M)	N. 4,403,197.27	E. 520,293.90
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 471,486.7	E. 1,617,616.9
NAD'83 GEO.	LAT-(N) 39.787776	LONG-(W) 80.748677
NAD'83 UTM (M)	N. 4,404,233.1	E. 521,519.1
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 479,400.7	E. 1,613,173.0
NAD'83 GEO.	LAT-(N) 39.809330	LONG-(W) 80.764886
NAD'83 UTM (M)	N. 4,406,621.5	E. 520,125.0

T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°45'00"

T.H. A.D.

B.H. A.D.

REFERENCES



NOTES ON SURVEY

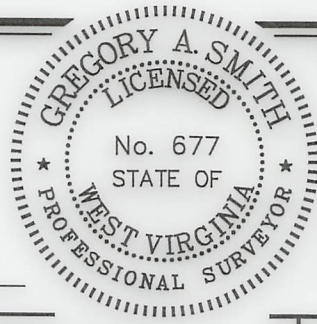
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
3. THE ASSESSMENT OF THE 1/10 ACRE LOT, OWNED BY JASON J. STEED AND DESCRIBED AS THE SECOND PARCEL IN DEED BOOK 643 PAGE 319 AND CORRECTIVE DEED 843 PAGE 300, IS NOT CURRENTLY ACCOUNTED FOR WITHIN THE 135.61 ACRE ASSESSMENT OF SURFACE TAX MAP 5-9-13.2.
4. TAX MAPS AND TAX ASSESSMENTS FOR PARCELS 5-9-4, 5-9-35 AND 5-9-41 DO NOT APPEAR TO CORRECTLY DEPICT PARCEL BOUNDARIES AND/OR ACREAGES AS DESCRIBED IN THEIR RESPECTIVE DEEDS.
5. PLAT UPDATED TO SHOW AS-DRILLED PATH.
6. AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.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 JANUARY 17, 20 23
REVISED _____, 20 _____
OPERATORS WELL NO. _____ OLD CROW N-8HM
API WELL NO. 47 - 051 - 02240
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P8HMAD.dwg
OLD CROW NORTH 8HM REV6
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 X INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION 1,264.99' WATERSHED TRIBUTARY OF FISH CREEK (HUC-10)
DISTRICT FRANKLIN COUNTY MARSHALL QUADRANGLE POWHATAN POINT 7.5'

SURFACE OWNER DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO ACREAGE 71.205±
ROYALTY OWNER DONNA VIVIAN YOHO, ET AL ACREAGE 71.205±

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X 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: 6,755' / TMD: 18,294'

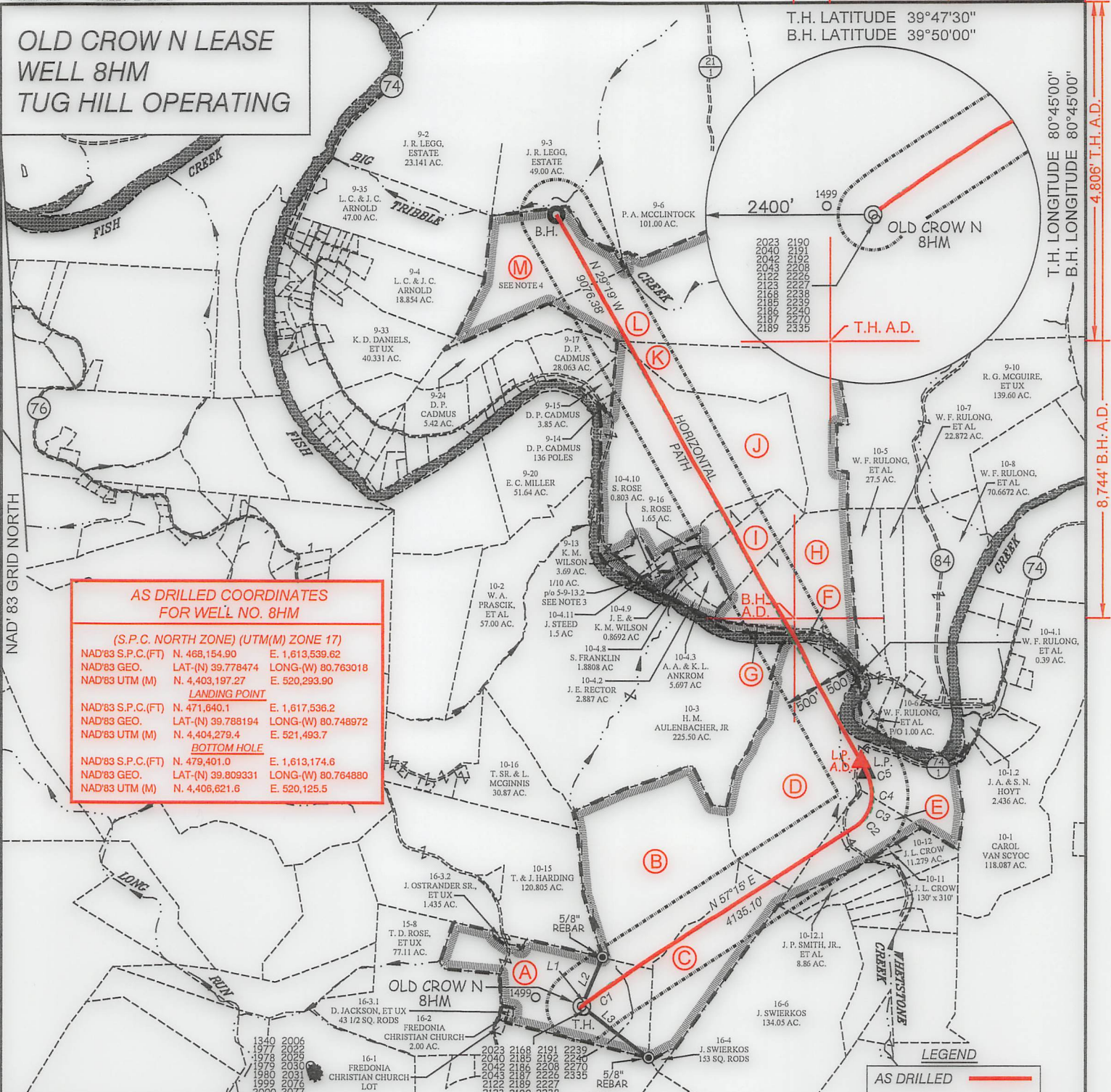
WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107
DESIGNATED AGENT DARREN BROWN - CT CORPORATION ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

03/17/2023

**OLD CROW N LEASE
WELL 8HM
TUG HILL OPERATING**

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



**AS DRILLED COORDINATES
FOR WELL NO. 8HM**

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

NAD'83 S.P.C.(FT)	N. 468,154.90	E. 1,613,539.62
NAD'83 GEO.	LAT-(N) 39.778474	LONG-(W) 80.763018
NAD'83 UTM (M)	N. 4,403,197.27	E. 520,293.90
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 471,640.1	E. 1,617,536.2
NAD'83 GEO.	LAT-(N) 39.788194	LONG-(W) 80.748972
NAD'83 UTM (M)	N. 4,404,279.4	E. 521,493.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 479,401.0	E. 1,613,174.6
NAD'83 GEO.	LAT-(N) 39.809331	LONG-(W) 80.764880
NAD'83 UTM (M)	N. 4,406,621.6	E. 520,125.5

CURVE TABLE

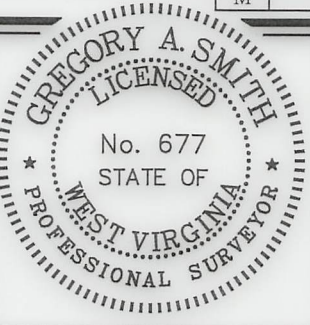
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	502.66'	4568.87'	N 54°40' E	502.40'
C2	143.70'	415.54'	N 47°06' E	142.98'
C3	163.65'	424.49'	N 24°37' E	162.64'
C4	276.30'	607.36'	N 00°10' W	273.93'
C5	217.22'	775.94'	N 21°05' W	216.51'

TAG	SURFACE OWNER	PARCEL	ACRES
A	DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO	5-16-3	71.205
B	JOHN SWIERKOS	5-10-14	100.00
C	JOHN SWIERKOS	5-16-5	52.07
D	HERBERT M. AULENBACHER, JR.	5-10-9	141.43
E	LOUIS DELBERT VAN SCYOC	5-10-10	24.50
F	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
G	CARL J. & LAURA A. GILBERT	5-10-4.7	2.110
H	SHEENA ROSE	5-10-4	74.229
I	SHEENA ROSE	5-10-4.12	20.07
J	JASON J. STEED	5-9-13.2	135.61
K	ROBERT G. McGUIRE, ET UX	5-9-12	78.28
L	PATRICIA A. McCLINTOCK	5-9-7	110.02
M	LLOYD C. & JUDITH C. ARNOLD	5-9-41	93.00

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 48°59' E	726.89'
L2	N 22°46' E	761.72'
L3	S 52°54' E	1204.10'

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
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(+) 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	00-00
SURFACE OWNER (SEE TABLE)	(A)
LEASE # (SEE WW-6A1)	

SCALE 1" = 2000' FILE NO. 8796P8HMAD.dwg
OLD CROW NORTH 8HM REV6
DATE JANUARY 17, 20 23
REVISED _____, 20 ____
OPERATORS WELL NO. OLD CROW N-8HM
API WELL NO. 47 — 051 — 02240
NO. STATE COUNTY PERMIT

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

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY TIME PERMIT

03/17/2023