

7,037' B.H. A.D. 3,686' T.H. A.D.

**OLD CROW N LEASE
WELL 5HM
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. 468,178.88	E. 1,613,512.76
NAD'83 GEO.	LAT-(N) 39.778538	LONG-(W) 80.763115
NAD'83 UTM (M)	N. 4,403,204.44	E. 520,285.60

LANDING POINT

NAD'83 S.P.C.(FT)	N. 471,239.3	E. 1,615,179.6
NAD'83 GEO.	LAT-(N) 39.787004	LONG-(W) 80.757337
NAD'83 UTM (M)	N. 4,404,145.3	E. 520,777.8

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 479,899.6	E. 1,610,321.1
NAD'83 GEO.	LAT-(N) 39.810589	LONG-(W) 80.775062
NAD'83 UTM (M)	N. 4,406,759.0	E. 519,253.6

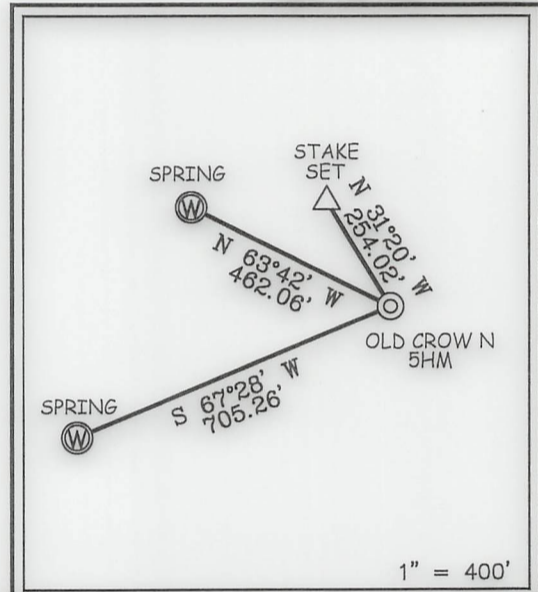
T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°45'00"
4,783' T.H. A.D.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-9-4.3	HARRY E. KARR, JR., ET UX	1.471
5-9-4.7	FRANCIS D. BARR, ET UX	0.481
5-9-4.8	THOMAS MIDCAP, ET UX	0.376
5-9-4.10	DEBORAH S. MIDCAP	0.819
5-9-4.11	GARY PORTER	1.00
5-9-4.14	PAUL G. BROWN	0.500
5-9-4.15	PAUL G. BROWN	0.500
5-9-4.18	PAUL G. BROWN	0.657
5-9-4.19	SAMUEL L. CANTERBURY, ET UX	2.078
5-9-13.1	DENNIS P. CADMUS	5.42
5-9-19	MARK STEPHEN STOCKLASK	2.38
5-9-21	ALBERT F. KAZEMKA	PARCEL 100'
5-9-25	DELBERT K. & LINDA K. MYERS	14.49
5-9-26	EDWIN C. MILLER	1.00
5-9-32	SANDRA J. BONNETTE	2.321
5-9-32.5	GARNET D. MIDCAP	PCL 270 x 390
5-9-32.8	TIMOTHY Q. HOYT, ET UX	0.711
5-9-32.9	LIONEL E. HENRY SR., ET AL	1.269
5-9-32.10	TIMOTHY Q. HOYT, ET UX	0.588
5-9-32.11	TIMOTHY Q. HOYT, ET UX	1.717
5-9-33.1	KEITH D. & BEVERLY A. DANIELS	1.00
5-9-33.2	KEITH D. DANIELS, ET UX	1.534
5-9-33.4	DAVID D. & CHRISTINE S. DANIELS	1.025
5-9-36	FRANK T. & ANNA M. WALKER	PARCEL
5-9-37	FRANK T. & ANNA M. WALKER	10.857
5-9-38	SHIRLEY A. HILL EST.	3.331

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS > 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.

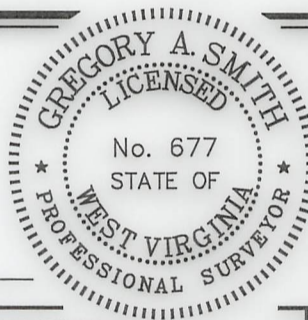
REFERENCES



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
slsvw.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-5HM
API WELL NO. 47 - 051 - 02208
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P5HMAD.dwg
SCALE 1" = 2000'
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 X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
LOCATION: GROUND = 1,286.20' ELEVATION PROPOSED = 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: LEASE NO. SEE WW-6A1
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: 6,701' / TMD: 17,796'

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

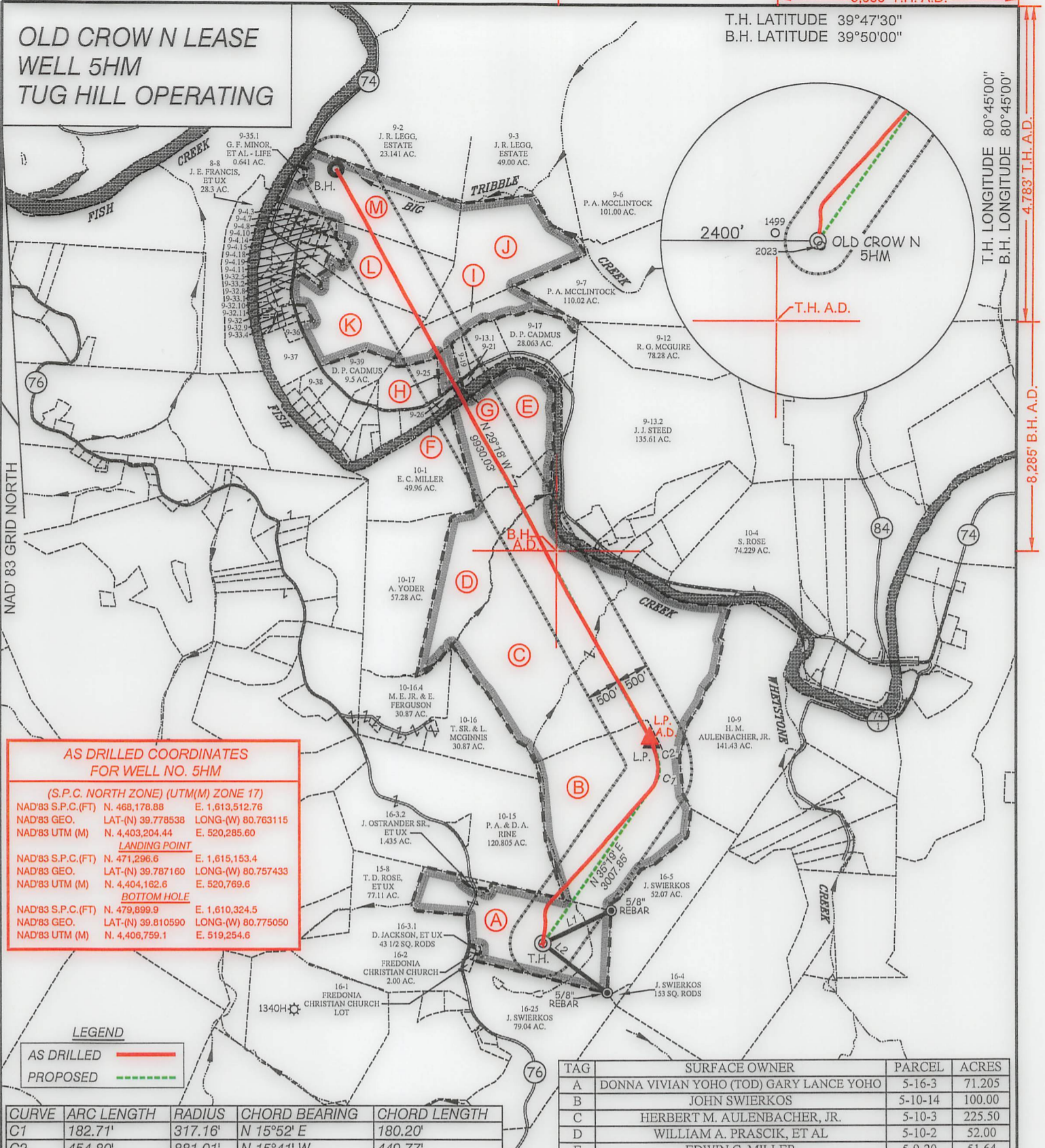
COUNTY NAME PERMIT

03/17/2023

7,037' B.H. A.D. 3,686' T.H. A.D.

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

**OLD CROW N LEASE
WELL 5HM
TUG HILL OPERATING**



T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°45'00"
4,783' T.H. A.D.
8,285' B.H. A.D.

AS DRILLED COORDINATES FOR WELL NO. 5HM

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

NAD'83 S.P.C.(FT)	N. 468,178.88	E. 1,613,512.76
NAD'83 GEO.	LAT-(N) 39.778538	LONG-(W) 80.763115
NAD'83 UTM (M)	N. 4,403,204.44	E. 520,285.60

LANDING POINT

NAD'83 S.P.C.(FT)	N. 471,296.6	E. 1,615,153.4
NAD'83 GEO.	LAT-(N) 39.787160	LONG-(W) 80.757433
NAD'83 UTM (M)	N. 4,404,162.6	E. 520,769.6

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 479,899.9	E. 1,610,324.5
NAD'83 GEO.	LAT-(N) 39.810590	LONG-(W) 80.775050
NAD'83 UTM (M)	N. 4,406,759.1	E. 519,254.6

LEGEND

AS DRILLED ——— (Red solid line)
PROPOSED - - - - - (Green dashed line)

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	182.71'	317.16'	N 15°52' E	180.20'
C2	454.80'	881.01'	N 15°41' W	449.77'

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	HERBERT M. AULENBACHER, JR.	5-10-3	225.50
D	WILLIAM A. PRASCIK, ET AL	5-10-2	52.00
E	EDWIN C. MILLER	5-9-20	51.64
F	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
G	ALBERT F. KAZEMKA	5-9-22	0.5
H	DELBERT K. & LINDA K. MYERS	5-9-23	7.00
I	DENNIS P. CADMUS	5-9-24	21 AC 49 P.
J	LLOYD C. & JUDITH C. ARNOLD	5-9-41	93.00
K	KEITH D. DANIELS, ET UX	5-9-33	40.331
L	LLOYD C. & JUDITH C. ARNOLD	5-9-4	18.854
M	LLOYD C. & JUDITH C. ARNOLD	5-9-35	47.00

LINE	BEARING	DISTANCE
L1	N 64°29' E	1164.44'
L2	S 52°46' E	1239.99'



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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 (A)
- EXISTING WELL (B)
- PERMITTED WELL (C)
- TAX MAP-PARCEL (00-00)
- SURFACE OWNER (SEE TABLE) (A)
- LEASE # (SEE WW-6A1)

SCALE 1" = 2000' FILE NO. 8796P5HMAD.dwg
OLD CROW NORTH 5HM REV1
DATE JANUARY 17, 20 23
REVISED _____, 20 _____
OPERATORS WELL NO. OLD CROW N-5HM
API WELL NO. 47 — 051 — 02208
NO. STATE COUNTY PERMIT

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

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

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