

11,521' B.H. A.D.

3,627' T.H. A.D.

**OLD CROW S LEASE
WELL 11HM
TUG HILL OPERATING**

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

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

NAD'83 S.P.C.(FT)	N. 468,099.29	E. 1,613,570.41
NAD'83 GEO.	LAT-(N) 39.778322	LONG-(W) 80.762906
NAD'83 UTM (M)	N. 4,403,180.46	E. 520,303.56

LANDING POINT

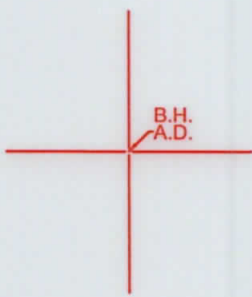
NAD'83 S.P.C.(FT)	N. 470,512.5	E. 1,613,767.8
NAD'83 GEO.	LAT-(N) 39.784954	LONG-(W) 80.762325
NAD'83 UTM (M)	N. 4,403,916.7	E. 520,351.4

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 464,185.5	E. 1,617,330.6
NAD'83 GEO.	LAT-(N) 39.767723	LONG-(W) 80.749335
NAD'83 UTM (M)	N. 4,402,007.3	E. 521,469.1

T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°42'30"
4,861' T.H. A.D.

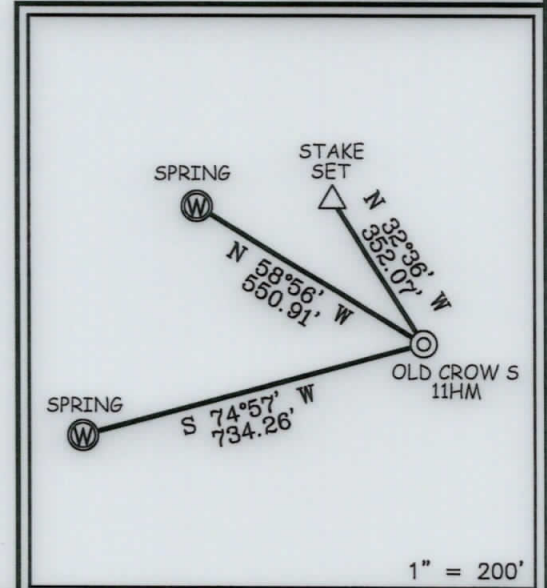
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-10-12.1	JOHN PAUL SMITH, JR., ET AL	8.86
5-10-19	BRADLEY L. & CONNIE L. HUBBARD	3.209
5-10-20	LOUIS AULENBAUCHER	3.554
5-10-21	LOUIS AULENBAUCHER	3.677
5-10-22	LOUIS AULENBAUCHER	6.461
5-16-4	JOHN SWIERKOS	133 SQ. RODS
5-16-15.1	GLEN GUNTO	10.170
5-17-15	GLEN GUNTO	10.220
5-17-16	GLEN GUNTO	9.702



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'
3. AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
4. PLAT UPDATED TO SHOW AS-DRILLED PATH.

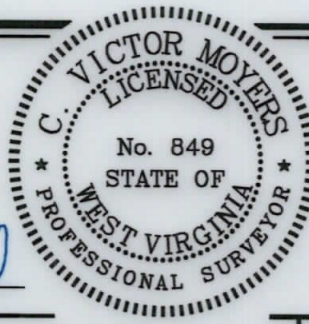
REFERENCES



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
slsv.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. 849 *C. Victor Moyers*



STATES TOPOGRAPHIC MAPS.
DATE JUNE 10, 2020
REVISED _____, 20____
OPERATORS WELL NO. OLD CROW S-11HM
API WELL NO. 47 - 051 - 2042
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P11HMAD.dwg
SCALE 1" = 2000'

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: ELEVATION 1,265' 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: 6,693' / TMD: 15,101'

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

11,521' B.H. A.D.

3,627' T.H. A.D.

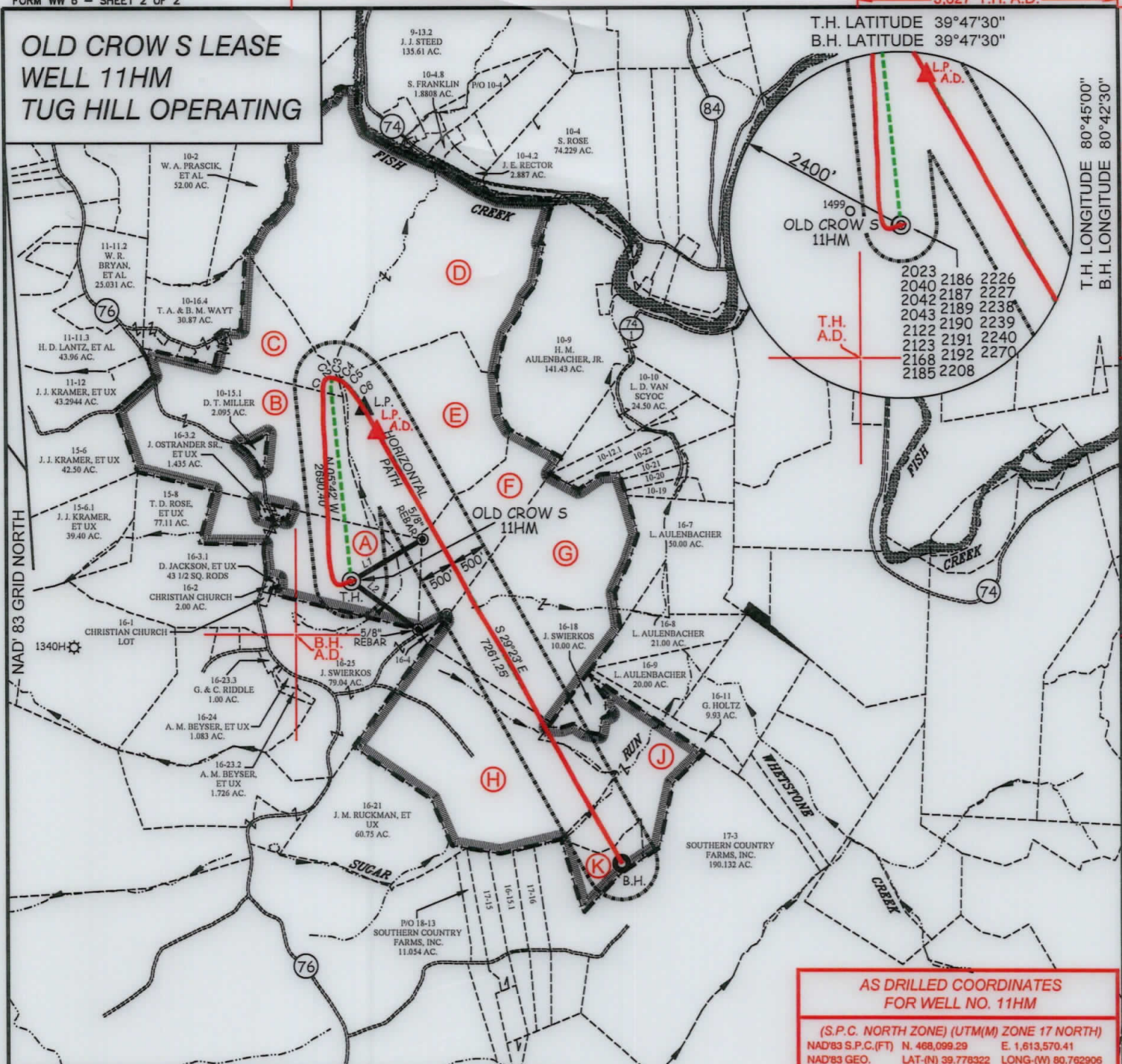
**OLD CROW S LEASE
WELL 11HM
TUG HILL OPERATING**

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

T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°42'30"

8,716' B.H. A.D.

NAD'83 GRID NORTH



AS DRILLED COORDINATES FOR WELL NO. 11HM

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

NAD'83 S.P.C.(FT)	N. 468,099.29	E. 1,613,570.41
NAD'83 GEO.	LAT-(N) 39.778322	LONG-(W) 80.762906
NAD'83 UTM (M)	N. 4,403,180.48	E. 520,303.56

LANDING POINT

NAD'83 S.P.C.(FT)	N. 470,181.1	E. 1,613,942.1
NAD'83 GEO.	LAT-(N) 39.784051	LONG-(W) 80.761888
NAD'83 UTM (M)	N. 4,403,816.6	E. 520,406.2

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 464,190.8	E. 1,617,335.1
NAD'83 GEO.	LAT-(N) 39.767737	LONG-(W) 80.749319
NAD'83 UTM (M)	N. 4,402,008.9	E. 521,470.4

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	112.61'	229.05'	N 05°38' E	111.48'
C2	57.17'	57.80'	N 47°45' E	54.87'
C3	55.73'	106.09'	S 83°41' E	55.09'
C4	80.09'	319.07'	S 59°49' E	79.88'
C5	106.39'	750.12'	S 47°43' E	106.30'
C6	362.58'	1537.02'	S 35°39' E	361.74'

LEGEND

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

LINE	BEARING	DISTANCE
L1	N 59°40' E	1150.77'
L2	S 54°11' E	1146.29'

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
slsvv.com

TAG	SURFACE OWNER	PARCEL	ACRES
A	DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO	5-16-3	71.205
B	PAUL ANDREW & DEBRA A. RINE	5-10-15	120.805
C	TIMOTHY, SR., & LINDA MCGINNIS	5-10-16	30.87
D	HERBERT M. AULENBACHER, JR.	5-10-3	225.50
E	JOHN SWIERKOS	5-10-14	100.00
F	JOHN SWIERKOS	5-16-5	52.07
G	JOHN SWIERKOS	5-16-6	134.05
H	BETHANY A. REDO & ROBERT W. RAHM	5-16-19	129.16
J	CARA DAVIS & BRIAN TESLOVICH, ET AL	5-16-17	55.34
K	GLEN A. GUNTO	5-16-16	9.702

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

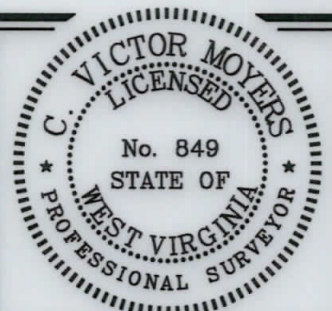
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 849 *C. Victor Moyers*

SCALE 1" = 2000' FILE NO. 8796P11HMAD.dwg

DATE JUNE 10, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. OLD CROW S-11HM

API WELL NO. 47 — 051 — 2042

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
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

08/27/2021

00-00 (A)

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