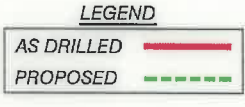
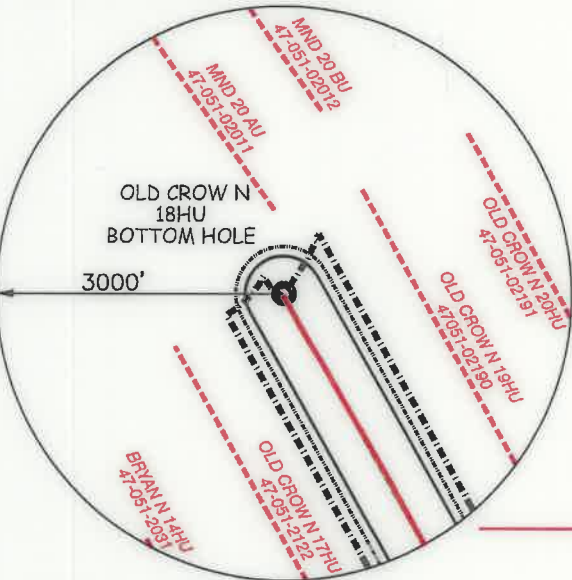


**OLD CROW N LEASE
UTICA UNIT - 439.09 AC ±
WELL 18HU
TUG HILL OPERATING**

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



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

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 468,131.25 | E. 1,613,534.59 |
| NAD'83 GEO. | LAT-(N) 39.778408 | LONG-(W) 80.763035 |
| NAD'83 UTM (M) | N. 4,403,190.04 | E. 520,292.49 |

LANDING POINT

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 469,078.3 | E. 1,614,843.1 |
| NAD'83 GEO. | LAT-(N) 39.781058 | LONG-(W) 80.758427 |
| NAD'83 UTM (M) | N. 4,403,485.2 | E. 520,686.3 |

BOTTOM HOLE

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 480,570.6 | E. 1,608,461.3 |
| NAD'83 GEO. | LAT-(N) 39.812358 | LONG-(W) 80.781716 |
| NAD'83 UTM (M) | N. 4,406,953.9 | E. 518,683.6 |

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

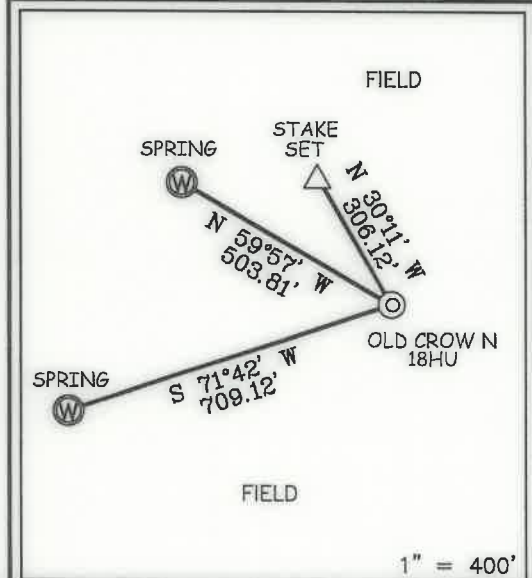
7,656' B.H. A.D.

| MAP/PARCEL | ADJOINING SURFACE OWNER LIST | ACRES |
|------------|--------------------------------------|-------------|
| 5-9-17 | DENNIS P. CADMUS | 28.063 |
| 5-9-19 | MARK STEPHEN STOCKLASK | 2.38 |
| 5-9-23 | DELBERT K. & LINDA K. MYERS | 7.00 |
| 5-9-26 | EDWIN C. MILLER | 1.00 |
| 5-9-29.2 | JAMES E. & AMY L. MCDONOUGH | 2.807 |
| 5-9-30.1 | DAVID JR., & MELISA LOVE | 2.518 |
| 5-9-40 | SHIRLEY A. HILL EST | 368' X 425' |
| 5-9-42 | DENNIS P. CADMUS | 5.42 |
| 5-11-5 | KEVIN R. CORLEY, ET UX | 10.36 |
| 5-11-5.3 | ROBERT HARRIS ARRICK, ET UX | 3.00 |
| 5-11-6 | ROBERT & REBECCA ARRICK | 1.29 |
| 5-11-7 | MT. HOBART MISSIONARY BAPTIST CHURCH | 0.25 |
| 5-11-8 | MT. HOBART MISSIONARY BAPTIST CHURCH | LOT |
| 5-11-9.2 | MICHAEL R. BRYAN | 3.143 |
| 5-11-9.3 | JOSEPH M. & STEVEN HAUGHT | 16.3 |
| 5-11-9.5 | SOUTHERN COUNTRY FARMS INC. | 2.559 |
| 5-11-9.6 | SOUTHERN COUNTRY FARMS INC. | 2.488 |
| 5-11-9.7 | SEAN F. MOORE | 2.026 |
| 5-11-9.8 | SEAN F. MOORE | 2.070 |
| 5-11-9.9 | LEONARD L. PARSONS, ET UX | 5.89 |
| 5-11-10 | JOHN A. & JANET L. BEUCKE | 2.348 |
| 5-11-11 | BRAD M. & AMANDA J. BLAKE | 5.00 |
| 5-11-11.1 | NELLIE MARIE & ROBERT SPENCER | 5.813 |
| 5-11-11.4 | BRAD M. & AMANDA J. BLAKE | 15.193 |

NOTES ON SURVEY

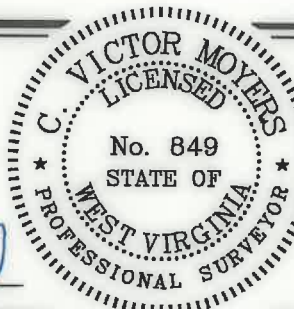
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF OLD CROW N-18HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF EXISTING WELLS
BRYAN N 13HU (47-051-02030),
BRYAN N 14HU (47-051-02031),
OLD CROW N-17HU (47-051-02122),
OLD CROW N-18HU (47-051-02123),
OLD CROW N-19HU (47-051-02190),
MND20 AU (47-051-02011),
MND20 BU (47-051-02012),
MND20 CU (47-051-02013),
MND20 DU (47-051-02014) & PROPOSED OLD CROW N-20HU (47-051-02191).
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- 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
slsvv.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*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JUNE 10, 20 20
REVISED _____, 20 _____
OPERATORS WELL NO. OLD CROW N-18HU
API WELL NO. 47 - 051 - 02123
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P18HUAD.dwg
OLD CROW NORTH 18HU REV3
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 X SHALLOW _____

LOCATION: GROUND = 1286.70' ELEVATION PROPOSED = 1264.99' 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 - SEE ADDITIONAL SHEETS 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 POINT PLEASANT ESTIMATED DEPTH TVD: 11,531' / TMD: 24,961'

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

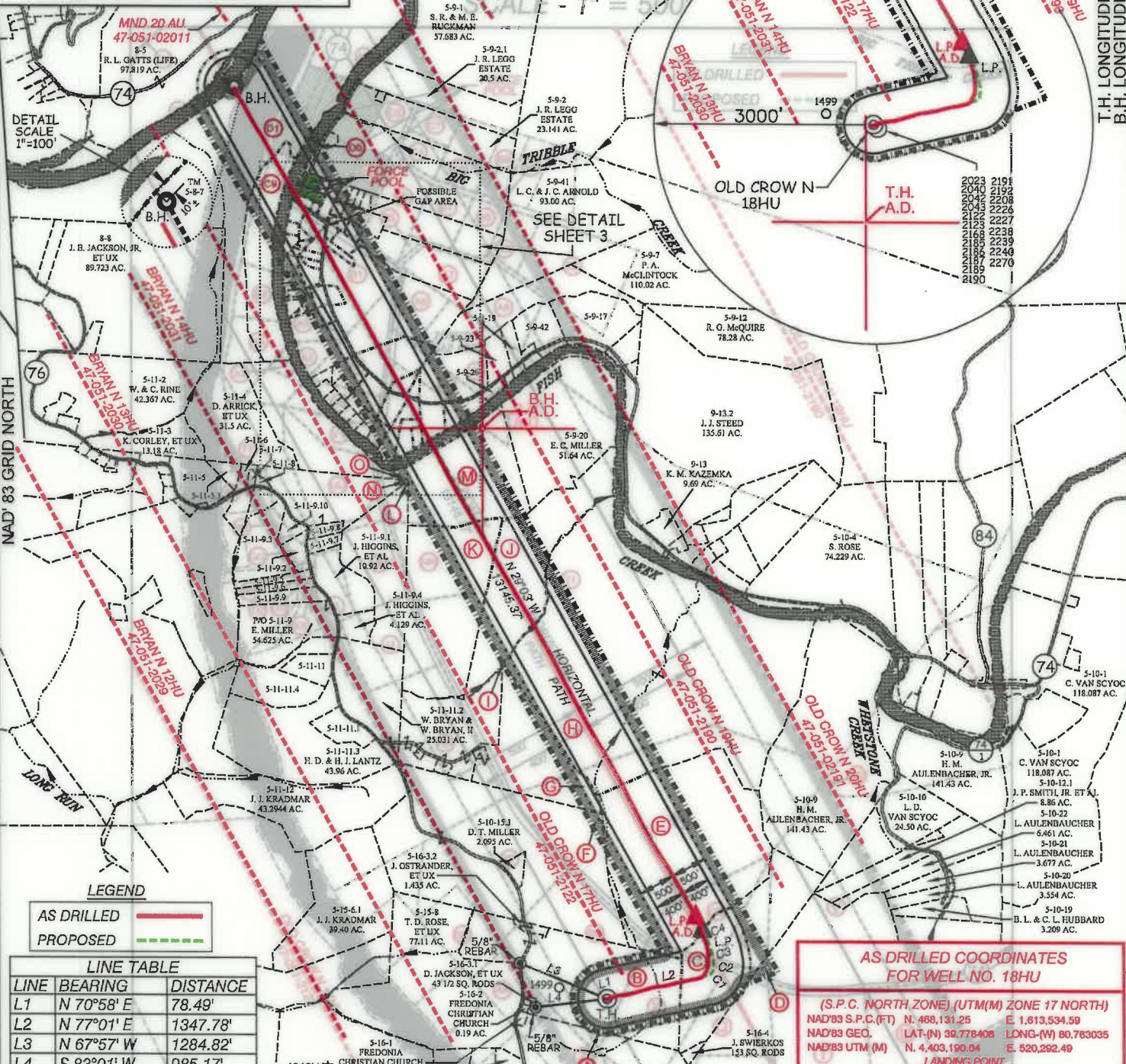
COUNTY NAME PERMIT

05/07/2022

**OLD CROW N LEASE
UTICA UNIT - 439.09 AC ±
WELL 18HU
TUG HILL OPERATING**

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

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



DETAIL SCALE
1"=100'

NAD'83 GRID NORTH

LEGEND

| | |
|------------|--|
| AS DRILLED | |
| PROPOSED | |

LINE TABLE

| LINE | BEARING | DISTANCE |
|------|------------|----------|
| L1 | N 70°58' E | 78.49' |
| L2 | N 77°01' E | 1347.78' |
| L3 | N 67°57' W | 1284.82' |
| L4 | S 83°01' W | 985.17' |

AS DRILLED COORDINATES FOR WELL NO. 18HU

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

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 468,131.25 | E. 1,613,534.59 |
| NAD'83 GEO. | LAT-(N) 39.778408 | LONG-(W) 80.763035 |
| NAD'83 UTM (M) | N. 4,403,190.04 | E. 520,292.49 |

LANDING POINT

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 469,264.3 | E. 1,614,750.4 |
| NAD'83 GEO. | LAT-(N) 39.781565 | LONG-(W) 80.758766 |
| NAD'83 UTM (M) | N. 4,403,541.4 | E. 520,657.1 |

BOTTOM HOLE

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 480,565.9 | E. 1,608,458.5 |
| NAD'83 GEO. | LAT-(N) 39.812318 | LONG-(W) 80.781725 |
| NAD'83 UTM (M) | N. 4,406,949.4 | E. 518,682.8 |

SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296

sflaw.com

CURVE TABLE

| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
|-------|------------|----------|---------------|--------------|
| C1 | 84.35' | 86.17' | N 47°06' E | 81.02' |
| C2 | 143.96' | 315.71' | N 04°40' E | 142.72' |
| C3 | 351.75' | 1126.17' | N 17°28' W | 350.32' |
| C4 | 98.16' | 1591.33' | N 27°16' W | 98.15' |

P.S. *C. Victor Moyers*
849

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

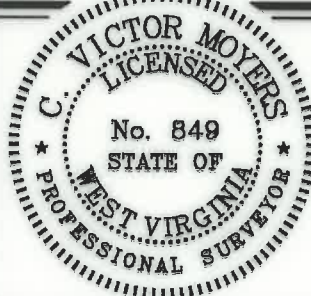
| | | |
|-------------------|-------------------|--------------------|
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LANDING POINT

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 469,078.3 | E. 1,614,843.1 |
| NAD'83 GEO. | LAT-(N) 39.781058 | LONG-(W) 80.758427 |
| NAD'83 UTM (M) | N. 4,403,485.2 | E. 520,686.3 |

BOTTOM HOLE

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 480,570.6 | E. 1,608,461.3 |
| NAD'83 GEO. | LAT-(N) 39.812358 | LONG-(W) 80.781716 |
| NAD'83 UTM (M) | N. 4,406,953.9 | E. 518,683.8 |



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

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

LEGEND

| | |
|------------------------------------|--|
| UNIT BOUNDARY | |
| LEASED TRACTS INSIDE UNIT BOUNDARY | |
| SURFACE LINE | |
| PROPOSED UTICA | |
| WELL LATERAL | |
| 400' OFFSET LINE | |
| 500' OFFSET LINE | |
| TIE LINE | |
| CREEK | |
| ROAD | |
| COUNTY ROUTE | |
| PROPOSED WELL | |
| EXISTING WELL | |
| PERMITTED WELL | |
| SURFACE OWNER (SEE TABLE) | |
| LEASE # (SEE ADDITIONAL SHEETS) | |

SCALE 1" = 2000' FILE NO. 8796P18HUAD.dwg
DATE JUNE 10, 20 20
REVISED _____, 20 _____
OPERATORS WELL NO. OLD CROW N-18HU
API WELL NO. 47 — 051 — 02123
STATE COUNTY PERMIT

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

05/07/2022

COUNTY NAME PERMIT

**OLD CROW N LEASE
UTICA UNIT - 439.09 AC ±
WELL 18HU
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
slsvv.com

SURFACE OWNERS

| TAG | SURFACE OWNER | PARCEL | ACRES |
|-----|---|-----------|----------|
| A | JOHN SWIERKOS | 5-16-25 | 79.04 |
| B | DONNA VIVIAN YOHO - TOD | 5-16-3 | 71.205 |
| C | JOHN SWIERKOS | 5-16-5 | 52.07 |
| D | JOHN SWIERKOS | 5-16-6 | 134.05 |
| E | JOHN SWIERKOS | 5-10-14 | 100.00 |
| F | PAUL ANDREW & DEBRA A. RINE | 5-10-15 | 120.80 |
| G | TIMOTHY SR. & LINDA MCGINNIS | 5-10-16 | 30.87 |
| H | HERBERT M. AULENBAUCHER, JR. | 5-10-3 | 225.50 |
| I | MELVIN E. JR., & ELIZABETH FERGUSON | 5-10-16.4 | 30.87 |
| J | WILLIAM A. PRASCIK, ET AL | 5-10-2 | 52.00 |
| K | ALVIN A. YODER | 5-10-17 | 57.28 |
| L | ALVIN A. YODER | 5-11-10 | 31.91 |
| M | EDWIN C. MILLER | 5-10-1 | 49.96 |
| N | EDWIN C. & KIMBERLY A. MILLER | 5-11-9 | 54.625 |
| O | DALISON LUMBER COMPANY | 5-9-31 | 32.10 |
| P | FISH CREEK-WV DIVISION OF NATURAL RESOURCES | N/A | N/A |
| Q | JAMES M. & ROBERT L. STERN | 5-9-29 | 3.1777 |
| R | JAMES E. & AMY L. MCDONOUGH | 5-9-29.2 | 2.807 |
| S | JAMES E. & HARLEY J. MCDONOUGH | 5-9-29.1 | 1.026 |
| T | WILLIAM N. & DELORES E. MCDONOUGH - LIFE | 5-9-28 | 4.01 |
| U | JOHN F. KAZEMKA | 5-9-27 | 4.02 |
| V | DELBERT K. & LINDA K. MYERS | 5-9-25 | 14.49 |
| W | MATTHEW B. GRIFFITH | 5-9-30.3 | 0.82 |
| X | DAVID JR. & MELISSA LOVE | 5-9-30.1 | 2.518 |
| Y | TRUSTEES OF LIGHTHOUSE TABERNACLE CHURCH | 5-9-30.2 | 1.954 |
| Z | JOHN D. & MARSHA J. ROBERTS | 5-9-38.7 | 0.795 |
| AA | JOHN D. ROBERTS, ET UX | 5-9-38.8 | 0.903 |
| BB | SHIRLEY A. HILL ESTATE | 5-9-40 | 368x425 |
| CC | MATTHEW B. GRIFFITH | 5-9-30 | 2.708 |
| DD | DENNIS P. CADMUS | 5-9-24 | 21AC 49P |
| EE | DENNIS P. CADMUS | 5-9-39 | 9.50 |
| FF | SHIRLEY A. HILL ESTATE | 5-9-38 | 3.331 |
| GG | JOHN D. ROBERTS, ET UX | 5-9-38.9 | 1.017 |
| HH | FRANK T. & ANNA M. WALKER | 5-9-37 | 10.857 |
| II | KEITH D. DANIELS, ET UX | 5-9-33 | 40.331 |
| JJ | FRANK T. & ANNA M. WALKER | 5-9-36 | 1.55 |
| KK | RUBY M. HENRY ESTATE (C/O GEORGE E. HENRY) | 5-9-32.4 | 0.379 |
| LL | RUBY M. HENRY ESTATE (C/O GEORGE E. HENRY) | 5-9-32.3 | 0.552 |
| MM | LIONEL E. HENRY, SR., ET AL | 5-9-32.9 | 1.269 |
| NN | DAVID D. & CHRISTINE S. DANIELS | 5-9-33.4 | 1.025 |
| OO | JOHN DRAKE ALBAUGH | 5-9-32.12 | 1.09 |
| PP | JOHN DRAKE ALBAUGH | 5-9-32.2 | 0.231 |
| QQ | RUBY M. HENRY ESTATE (C/O GEORGE E. HENRY) | 5-9-32.6 | 0.474 |
| RR | JOHN D. ALBAUGH | 5-9-32.13 | 0.848 |
| SS | JOHN D. ALBAUGH | 5-9-32.7 | 0.729 |
| TT | SANDRA J. BONETTE | 5-9-32 | 2.321 |
| UU | TIMOTHY Q. HOYT, ET UX | 5-9-32.11 | 1.717 |
| VV | TIMOTHY Q. HOYT, ET UX | 5-9-32.10 | 0.588 |
| WW | KEITH D. & BEVERLY A. DANIELS | 5-9-33.1 | 1.0 |
| XX | KEITH D. DANIELS, ET UX | 5-9-33.2 | 1.534 |
| YY | LLOYD C. & JUDITH C. ARNOLD | 5-9-4 | 18.854 |
| ZZ | SAMUEL L. CANTERBURY, ET UX | 5-9-4.19 | 2.078 |
| A0 | TIMOTHY Q. HOYT, ET UX | 5-9-32.8 | 0.711 |
| A1 | GARNET D. MIDCAP | 5-9-32.5 | 270x390P |
| A2 | MILLARD BONNETTE, ET UX | 5-9-34.2 | 0.76 |
| A3 | EARL B. SUTER, JR., ET UX | 5-9-34.6 | 0.085 |
| A4 | LOUIS D. & PATRICIA L. VAN SCYOC | 5-9-34 | 0.850 |
| A5 | MILLARD BONNETTE, JR., ET UX | 5-9-34.5 | 0.444 |
| A6 | RALPH EARL DUNLAP, LIFE | 5-9-33.3 | 0.50 |
| A7 | SAMUEL LEE CANTERBURY, ET UX | 5-9-4.13 | 0.9284 |
| A8 | GARY PORTER | 5-9-4.11 | 1.00 |
| A9 | SAMUEL L. CANTERBURY, ET UX | 5-9-4.17 | 0.500 |
| B0 | SAMUEL L. CANTERBURY, ET UX | 5-9-4.16 | 0.517 |
| B1 | MILLARD BONNETTE, JR., ET UX | 5-9-34.3 | 1.988 |
| B2 | LOUIS D. VAN SCYOC | 5-9-34.1 | 0.556 |
| B3 | LOUIS D. VAN SCYOC | 5-9-34.4 | 1.042 |
| B4 | LINDA J. SIMMONS | 5-9-4.4 | 0.325 |
| B5 | DYLAN AULENBACHER | 5-9-4.20 | 0.0596 |
| B6 | DYLAN AULENBACHER | 5-9-4.5 | 0.991 |
| B7 | SAMUEL L. & DEBRA N. CANTERBURY | 5-9-4.12 | 0.650 |
| B8 | PAUL G. BROWN | 5-9-4.15 | 0.500 |
| B9 | PAUL G. BROWN | 5-9-4.14 | 0.500 |
| C0 | DEBORAH S. MIDCAP | 5-9-4.10 | 0.819 |
| C1 | THOMAS MIDCAP, ET UX | 5-9-4.9 | 0.375 |
| C2 | HARRY E. JR., & MICHELA KARR | 5-9-4.6 | 0.324 |
| C3 | LINDA J. SIMMONS | 5-9-4.2 | 0.732 |
| C4 | HARRY E. JR., & MICHELA KARR | 5-9-4.1 | 0.812 |
| C5 | HARRY E. JR., & MICHELA KARR | 5-9-4.3 | 1.471 |
| C6 | FRANCIS D. BARR, ET UX | 5-9-4.7 | 0.481 |
| C7 | THOMAS MIDCAP, ET UX | 5-9-4.8 | 0.376 |
| C8 | LLOYD C. & JUDITH C. ARNOLD | 5-9-35 | 47.00 |
| C9 | JAMES EDWARD FRANCIS, ET UX | 5-8-8 | 28.3 |
| D0 | GEORGE F. MINOR, ET AL - LIFE | 5-9-35.1 | 0.641 |
| D1 | EDWIN C. MILLER | 5-8-7 | 180.31 |
| D2 | JOHN DRAKE ALBAUGH | 5-9-32.1 | 1.002 |

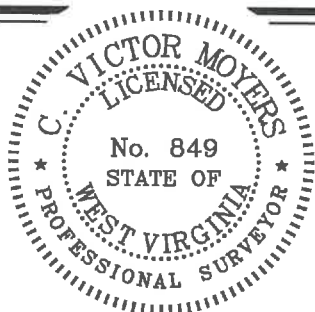
FILE NO. 8796P18HUAD.dwg
OLD CROW NORTH 18HU_REV3

DATE JUNE 10, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. OLD CROW N-18HU

API WELL NO. 47 — 051 — 02123
STATE COUNTY PERMIT



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



05/07/2021

P.S. 849 *C. Victor Moyers*

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

OLD CROW N LEASE
UTICA UNIT - 439.09 AC ±
WELL 18HU
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
slsvw.com

Table with columns: NO., Lease ID, Tag, Parcel, Grantor, Lessor, Etc., Deed Book/Page. Contains 302 entries.

Table with columns: NO., Lease ID, Tag, Parcel, Grantor, Lessor, Etc., Deed Book/Page. Contains 302 entries.

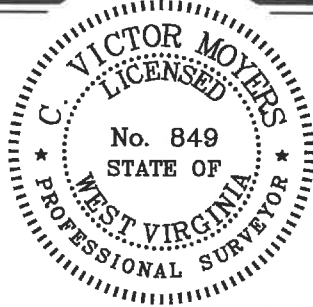
FILE NO. 8796P18HUAD.dwg
OLD CROW NORTH 18HU_REV3

DATE JUNE 10, 2020

REVISED _____, 20____

OPERATORS WELL NO. OLD CROW N-18HU

API WELL NO. 47 — 051 — 02123
STATE COUNTY PERMIT



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



P.S. 849 *C. Victor Moyers*

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

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

COUNTY NAME PERMIT

OLD CROW N LEASE
UTICA UNIT - 439.09 AC ±
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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
slnw.com

Table with columns: NO., Lease ID, Tag, Parcel, Grantor, Lessor, Etc., Deed Book/Page. Contains lease data for parcels 405 through 506.

Table with columns: NO., Lease ID, Tag, Parcel, Grantor, Lessor, Etc., Deed Book/Page. Contains lease data for parcels 507 through 608.

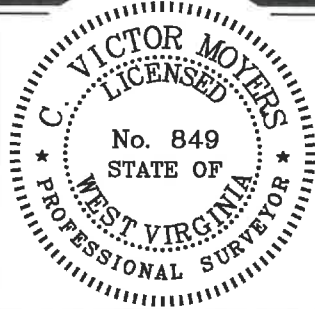
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DATE JUNE 10, 20 20

REVISED, 20

OPERATORS WELL NO. OLD CROW N-18HU

API WELL NO. 47 STATE 051 COUNTY PERMIT 02123



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



P.S. 849 C. Victor Moyers

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

**OLD CROW N LEASE
UTICA UNIT - 439.09 AC ±
WELL 18HU
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
sivv.com

| NO. | Lease ID | Tax# | Parcel | Grantor, Lessor, Etc. | Deed Book/Page |
|-----|------------|------|----------|--|----------------|
| 609 | N/A | C2 | 5-9-4.6 | HARRY E KARR JR | N/A N/A |
| 610 | N/A | C2 | 5-9-4.6 | MICHAELA L KARR | N/A N/A |
| 611 | Q077357000 | C3 | 5-9-4.2 | LINDA J SIMMONS | 805 575 |
| 612 | N/A | C4 | 5-9-4.1 | HARRY E KARR JR | N/A N/A |
| 613 | N/A | C4 | 5-9-4.1 | MICHAELA L KARR | N/A N/A |
| 614 | N/A | C5 | 5-9-4.3 | HARRY E KARR JR | N/A N/A |
| 615 | CVX868463 | C6 | 5-9-4.7 | FRANCIS D. BARR AND TERRI L BARR | 737 252 |
| 616 | CVX868688 | C7 | 5-9-4.8 | THOMAS E. MIDCAP FRED M MIDCAP | 738 482 |
| 617 | CVX935273 | C8 | 5-9-35 | CHARLES W. MILLER AND ESTHER JEAN MILLER | 853 59 |
| 618 | CVX935273 | C8 | 5-9-35 | PAUL PARSONS ET UX | 853 430 |
| 619 | CVX935276 | C8 | 5-9-35 | SHARON LYN RUSSELL | 853 422 |
| 620 | CVX935969 | C8 | 5-9-35 | TIMOTHY HUFF ET UX | 864 47 |
| 621 | CVX936053 | C8 | 5-9-35 | LLOYD C. ARNOLD ET UX | 864 39 |
| 622 | CVX936054 | C8 | 5-9-35 | MARY JO CRONIN | 863 594 |
| 623 | CVX936058 | C8 | 5-9-35 | RICHARD KURPIL ET UX | 853 426 |
| 624 | CVX936061 | C8 | 5-9-35 | CLARA MAE CLIFTON | 853 418 |
| 625 | CVX936062 | C8 | 5-9-35 | GEORGE EDWARDS ET UX | 853 449 |
| 626 | CVX936112 | C8 | 5-9-35 | DONNA FAE KYLE | 853 445 |
| 627 | CVX936113 | C8 | 5-9-35 | JUDITH MAY CONNER | 696 7 |
| 628 | CVX866958 | C8 | 5-9-35 | ANITA L. SLOUGH AND WILLIAM O. JOBES | 695 629 |
| 629 | CVX866959 | C8 | 5-9-35 | PAUL SCHEIBELHOOD ET AL | 695 629 |
| 630 | 10*25370 | C9 | 5-8-8 | JAMES EDWARD & LAURA J FRANCIS | 1030 377 |
| 631 | 10*25487 | C9 | 5-8-8 | STONE HILL MINERALS HOLDINGS LLC | 1031 538 |
| 632 | CVX935271 | D0 | 5-9-35.1 | CHARLES W. MILLER AND ESTHER JEAN MILLER | 853 59 |
| 633 | CVX935273 | D0 | 5-9-35.1 | PAUL PARSONS ET UX | 853 430 |
| 634 | CVX935276 | D0 | 5-9-35.1 | SHARON LYN RUSSELL | 853 422 |
| 635 | CVX935969 | D0 | 5-9-35.1 | TIMOTHY HUFF ET UX | 864 47 |
| 636 | CVX936053 | D0 | 5-9-35.1 | LLOYD C. ARNOLD ET UX | 864 39 |
| 637 | CVX936054 | D0 | 5-9-35.1 | MARY JO CRONIN | 863 594 |
| 638 | CVX936058 | D0 | 5-9-35.1 | RICHARD KURPIL ET UX | 853 426 |
| 639 | CVX936061 | D0 | 5-9-35.1 | CLARA MAE CLIFTON | 853 418 |
| 640 | CVX936062 | D0 | 5-9-35.1 | GEORGE EDWARDS ET UX | 853 449 |
| 641 | CVX936112 | D0 | 5-9-35.1 | DONNA FAE KYLE | 853 445 |
| 642 | CVX936113 | D0 | 5-9-35.1 | JUDITH MAY CONNER | 696 7 |
| 643 | CVX866958 | D0 | 5-9-35.1 | ANITA L. SLOUGH AND WILLIAM O. JOBES | 695 629 |
| 644 | CVX866959 | D0 | 5-9-35.1 | PAUL SCHEIBELHOOD ET AL | 695 629 |
| 645 | CVX866958 | D0 | 5-9-35.1 | ANITA L. SLOUGH AND WILLIAM O. JOBES | 695 629 |
| 646 | CVX866959 | D0 | 5-9-35.1 | PAUL SCHEIBELHOOD ET AL | 957 257 |
| 647 | 10*21546 | D1 | 5-8-7 | EDWIN C MILLER AND KIMBERLY ANN MILLER | 853 59 |
| 648 | CVX935271 | D2 | 5-9-32.1 | CHARLES W. MILLER AND ESTHER JEAN MILLER | 853 430 |
| 649 | CVX935273 | D2 | 5-9-32.1 | PAUL PARSONS ET UX | 853 422 |
| 650 | CVX935276 | D2 | 5-9-32.1 | SHARON LYN RUSSELL | 864 47 |
| 651 | CVX935969 | D2 | 5-9-32.1 | TIMOTHY HUFF ET UX | 864 39 |
| 652 | CVX936053 | D2 | 5-9-32.1 | LLOYD C. ARNOLD ET UX | 863 594 |
| 653 | CVX936054 | D2 | 5-9-32.1 | MARY JO CRONIN | 853 426 |
| 654 | CVX936058 | D2 | 5-9-32.1 | RICHARD KURPIL ET UX | 853 418 |
| 655 | CVX936061 | D2 | 5-9-32.1 | CLARA MAE CLIFTON | 853 449 |
| 656 | CVX936062 | D2 | 5-9-32.1 | GEORGE EDWARDS ET UX | 853 445 |
| 657 | CVX936112 | D2 | 5-9-32.1 | DONNA FAE KYLE | 853 445 |
| 658 | CVX936113 | D2 | 5-9-32.1 | JUDITH MAY CONNER | 696 7 |
| 659 | CVX866958 | D2 | 5-9-32.1 | ANITA L. SLOUGH AND WILLIAM O. JOBES | 695 629 |
| 660 | CVX866959 | D2 | 5-9-32.1 | PAUL SCHEIBELHOOD ET AL | 695 629 |

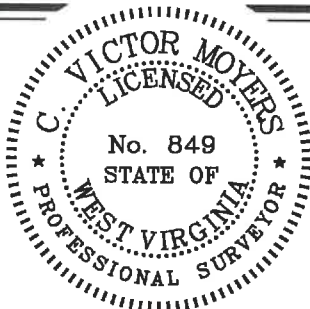
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OLD CROW NORTH 18HU_REV3

DATE JUNE 10, 20 20

REVISED _____, 20 _____

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API WELL NO. 47 — 051 — 02123
STATE COUNTY PERMIT



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