

**WILLETT S LEASE
UTICA UNIT - 386.06 AC±
WELL 16HU
TUG HILL OPERATING**

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

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD 83 S.P.C.(FT) N. 483,976.55 E. 1,643,755.32
 NAD 83 GEO. LAT-(N) 39.823022 LONG-(W) 80.656242
 NAD 83 UTM (M) N. 4,403,171.24 E. 529,418.72
LANDING POINT
 NAD 83 S.P.C.(FT) N. 483,888.1 E. 1,646,446.5
 NAD 83 GEO. LAT-(N) 39.822869 LONG-(W) 80.646657
 NAD 83 UTM (M) N. 4,403,157.4 E. 530,239.1
BOTTOM HOLE
 NAD 83 S.P.C.(FT) N. 473,281.8 E. 1,652,381.0
 NAD 83 GEO. LAT-(N) 39.793984 LONG-(W) 80.625057
 NAD 83 UTM (M) N. 4,404,956.9 E. 532,101.0

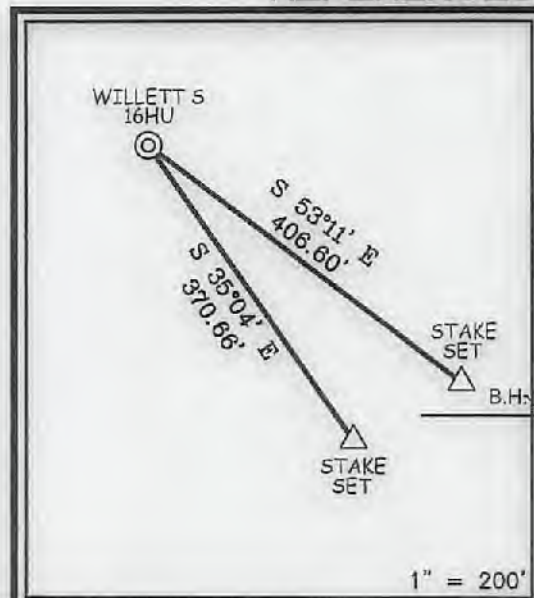
T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°37'30"
3,756' T.H.
14,340' B.H.



| TAG | SURFACE OWNER | PARCEL | ACRES |
|-----|--|----------|---------|
| A | CNX LAND, LLC | 9-8-5 | 110.37 |
| B | CNX LAND, LLC | 9-8-6 | 27.596 |
| C | CNX LAND, LLC | 9-3-17 | 65.86 |
| D | LARRY S. NEELY - LIFE | 9-8-7.1 | 76.005 |
| E | CNX LAND, LLC | 9-3-16 | 53.00 |
| F | RAYMOND DEWAIN DOBBS, ET AL | 9-3-15 | 70.7424 |
| G | MARSHALL COUNTY PUBLIC SERVICE DISTRICT #4 | 9-3-15.1 | 0.2296 |
| H | RAYMOND DEWAIN DOBBS, ET AL | 9-3-14.1 | 0.499 |
| I | RAYMOND DEWAIN DOBBS, ET AL | 9-3-14 | 81.331 |
| J | GLEN G. CORCZYCA - TOD | 9-9-6 | 25.12 |
| K | RAYMOND DEWAIN DOBBS, ET AL | 9-9-7.1 | 9.00 |
| L | JAMES R. THOMAS, ET UX | 9-9-7 | 60.796 |
| M | JOSEPH B. & JUDITH PATRELLO | 9-9-9.1 | 149.924 |
| N | VINCENT P. PATRELLO | 9-9-9 | 1.076 |
| O | VINCENT PATRELLO | 9-9-8.2 | 0.723 |
| P | DIANA MAE PIATT | 9-9-8.1 | 2.253 |
| Q | JAMES D. BLAKE, ET AL | 9-9-8 | 52.144 |
| R | DANNY R. & FRANCES V. KERNS ESTATE | 7-1-3 | 58.00 |
| S | KAREN S. EVANS & JUDY KAY MATTHEWS | 7-1-5 | 116.915 |
| T | CNX LAND, LLC | 7-1-4 | 52.00 |
| U | DANNY R. & FRANCES V. KERNS ESTATE | 7-8-2 | 94.00 |
| V | GEO A. BURRIS | 7-8-14 | 95.44 |
| W | BLAINE E. STERN, JR. | 7-8-13 | 104.92 |

| MAP/PARCEL | ADJOINING SURFACE OWNER LIST | ACRES |
|------------|------------------------------|-------|
| 3-19-82 | XCL PROCESSING OPERATING LLC | 14.89 |
| 7-1-7.1 | NANCY L. PARSONS | 0.5 |
| 9-3-13 | XCL PROCESSING OPERATING LLC | 28.00 |
| 9-3-13.1 | XCL PROCESSING OPERATING LLC | 10.00 |
| 9-3-17.1 | BRIAN & LEAH KESTNER | 11.8 |
| 9-8-5.1 | CNX LAND, LLC | 1.040 |
| 9-8-5.2 | AMY EVANS & KAREN WHETZAL | 4.586 |
| 9-8-6.1 | KAYLA E. BRATTON | 1.423 |
| 9-9-7.2 | XCL PROCESSING OPERATING LLC | 3.907 |
| 9-9-7.3 | JEFFREY B. THOMAS | 1.297 |

REFERENCES



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 825' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOP MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF PROPOSED WILLETT S-16HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED OR EXISTING WELLS:
 PROPOSED WILLETT S-17HU,
 PROPOSED HUDSON S-13HU (47-051-02293),
 PROPOSED HUDSON S-14HU (47-051-02327),
 PROPOSED HUDSON S-15HU (47-051-02328),
 PROPOSED HUDSON S-16HU (47-051-02329),
 PROPOSED BRECKENRIDGE S-17HU (47-051-02398).



12 Vanhoen Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5834
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsw.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 DECEMBER 1, 20 21
 REVISED _____, 20 _____
 OPERATORS WELL NO. WILLETT S 16HU
 API WELL NO. 47 - 051 - 02423
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8939P16HU.dwg
WILLETT S 16HU-REV2
 HORIZONTAL & VERTICAL SCALE 1" = 2000'
 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 LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1,310.03' WATERSHED TRIBUTARY OF UPPER BOWMAN RUN

DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 27.596±

ROYALTY OWNER APPALACHIAN BASIN MINERALS, LP, ET AL ACREAGE 01.528/2022

PROPOSED WORK: LEASE NO. SEE WV-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 POINT PLEASANT

ESTIMATED DEPTH TVD: 12,074' / TMD: 24,796'

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

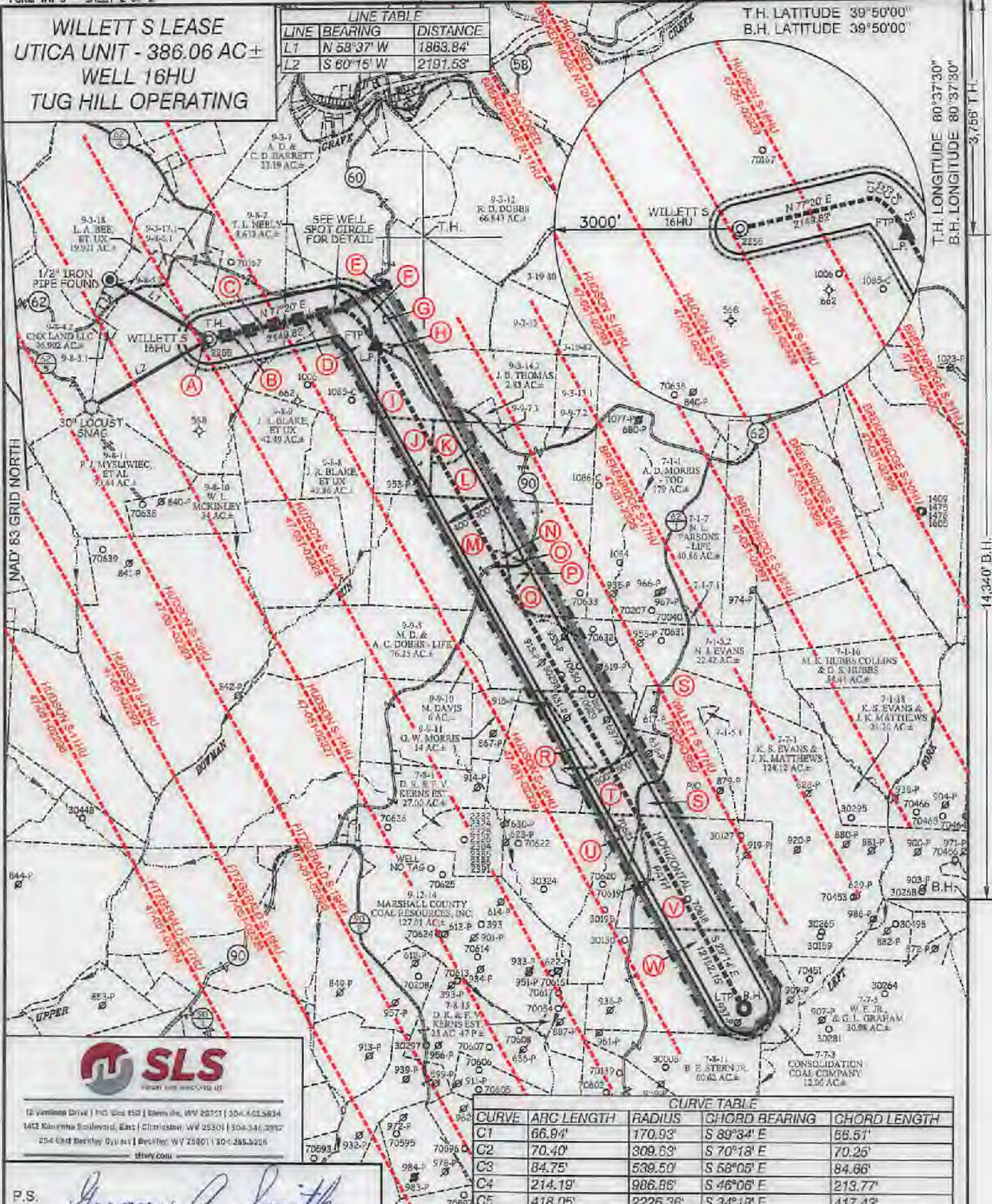
COUNTY NAME
PERMIT

**WILLETT S LEASE
UTICA UNIT - 386.06 AC±
WELL 16HU
TUG HILL OPERATING**

| LINE TABLE | | |
|------------|------------|----------|
| LINE | BEARING | DISTANCE |
| L1 | N 58°37' W | 1863.84' |
| L2 | S 60°15' W | 2191.53' |

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

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



12 Veterans Drive | P.O. Box 850 | Steersville, WV 25351 | 304.432.5834
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.2952
254 East Beckley Blvd #1 | Beckley, WV 25801 | 304.285.9226
sllwv.com

P.S. 677 *Gregory A. Smith*

| CURVE TABLE | | | | |
|-------------|------------|----------|---------------|--------------|
| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
| C1 | 66.94' | 170.93' | S 89°34' E | 66.51' |
| C2 | 70.40' | 309.63' | S 70°18' E | 70.26' |
| C3 | 84.75' | 539.50' | S 58°05' E | 84.66' |
| C4 | 214.19' | 986.86' | S 46°06' E | 213.77' |
| C5 | 418.05' | 2226.36' | S 34°18' E | 417.43' |

| (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH) | | | |
|--|-------------------|--------------------|--|
| NAD'83 S.P.C. (FT) | N. 469,976.55 | E. 1,843,755.32 | |
| NAD'83 GEO. | LAT-(N) 39.823022 | LONG-(W) 80.956242 | |
| NAD'83 UTM (M) | N. 4,408,171.24 | E. 529,418.72 | |
| LANDING POINT | | | |
| NAD'83 S.P.C. (FT) | N. 469,896.1 | E. 1,846,446.5 | |
| NAD'83 GEO. | LAT-(N) 39.822809 | LONG-(W) 80.946657 | |
| NAD'83 UTM (M) | N. 4,408,157.4 | E. 530,239.1 | |
| BOTTOM HOLE | | | |
| NAD'83 S.P.C. (FT) | N. 473,281.6 | E. 1,852,381.0 | |
| NAD'83 GEO. | LAT-(N) 39.793964 | LONG-(W) 80.825057 | |
| NAD'83 UTM (M) | N. 4,404,955.9 | E. 532,101.0 | |



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

| LEGEND | |
|---------------------------------|-------|
| EXTERIOR UNIT BOUNDARY | |
| INTERIOR LEASE BOUNDARY | |
| SURFACE LINE | |
| PROPOSED UTICA | |
| WELL LATERAL | |
| 400' OFFSET LINE | |
| 500' OFFSET LINE | |
| TIE LINE | |
| CREEK | |
| ROAD | |
| PROPOSED FIRST TAKE POINT | ● FTP |
| PROPOSED LAST TAKE POINT | ● LTP |
| COUNTY ROUTE | |
| PROPOSED WELL | |
| EXISTING WELL | |
| PERMITTED WELL | |
| SURFACE OWNER (SEE TABLE) | |
| LEASE # (SEE ADDITIONAL SHEETS) | |

SCALE 1" = 2000' FILE NO. 8939P16HU.dwg
WILLETT S 16HU-REV2
DATE DECEMBER 1, 20 21
REVISED _____, 20 ____
OPERATORS WELL NO. WILLETT S 16HU
API WELL NO. 47-051-02423
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 FORT WORTH, TX 76107 | ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561 |

COUNTY NAME
PERMIT

01/28/2022

WILLETT S LEASE
 UTICA UNIT - 386.06 AC±
 WELL 16HU
 TUG HILL OPERATING



12 Vinhorn Drive | P.O. Box 159 | Glenville, WV 26351 | 304.462.5614
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsvv.com

| NO. | Lease ID | Parcel | Tag | Grantor, Lessor, Etc. | Deed Book/Page | |
|------|----------|----------|-----|--|----------------|-----|
| ✓ 1 | 10*23739 | 9-8-5 | A | APPALACHIAN BASIN MINERALS LP, ET AL | 1011 | 538 |
| ✓ 2 | 10*21602 | 9-8-6 | B | CAROL STACY SAUNDERS, ET AL | 959 | 289 |
| ✓ 3 | 10*21602 | 9-3-17 | C | CAROL STACY SAUNDERS, ET AL | 959 | 289 |
| ✓ 4 | 10*28092 | 9-8-7.1 | D | WV DEPART OF TRANSPORTATION DIV OF HIGHWAYS, ET AL | 1073 | 370 |
| ✓ 5 | 10*28808 | 9-8-7.1 | D | HOLLY MARIE EBERSOLE | 1078 | 47 |
| ✓ 6 | 10*38639 | 9-3-16 | E | RAYMOND D DOBBS | 677 | 229 |
| ✓ 7 | 10*38639 | 9-3-15 | F | RAYMOND D DOBBS | 677 | 229 |
| ✓ 8 | 10*22743 | 9-3-15.1 | G | MARSHALL COUNTY PUBLIC SERVICE DISTRICT 4 | 972 | 89 |
| ✓ 9 | 10*19922 | 9-3-14.1 | H | MARLENE GARIN, ET AL | 946 | 320 |
| ✓ 10 | 10*19737 | 9-3-14 | I | ALICE BUZZARD, ET AL | 948 | 195 |
| ✓ 11 | 10*19634 | 9-9-6 | J | JANICE L PIETERSE, ET AL | 960 | 153 |
| ✓ 12 | 10*22724 | 9-9-7.1 | K | RONI MICHELLE TOWE AND ROBERT T TOWE | 968 | 286 |
| ✓ 13 | 10*26738 | 9-9-7 | L | JAMES R THOMAS & DEBORAH L THOMAS | 1041 | 153 |
| ✓ 14 | 10*22615 | 9-9-9.1 | M | DAVID D MURRAY AND MARY ANN MURRAY, ET AL | 965 | 591 |
| ✓ 15 | 10*22615 | 9-9-9 | N | DAVID D MURRAY AND MARY ANN MURRAY, ET AL | 965 | 591 |
| ✓ 16 | 10*28968 | 9-9-8.2 | O | VINCENT PATRELLO AND AMANDA PATRELLO | 1080 | 560 |
| ✓ 17 | 10*23285 | 9-9-8.1 | P | DIANA MAE PIATT | 984 | 476 |
| ✓ 18 | 10*39474 | 9-9-8 | Q | SHERMAN E SR & AMARYLUSS J KNOX | 1120 | 493 |
| ✓ 19 | 10*17969 | 7-1-3 | R | BOUNTY MINERALS LLC, ET AL | 928 | 424 |
| ✓ 20 | 10*31110 | 7-1-5 | S | CNX GAS COMPANY LLC | 1098 | 608 |
| ✓ 21 | 10*17969 | 7-1-4 | T | BOUNTY MINERALS LLC, ET AL | 928 | 424 |
| ✓ 22 | 10*25518 | 7-8-2 | U | DANNY S KERNS, ET AL | 1010 | 532 |
| ✓ 23 | 10*25508 | 7-8-14 | V | THE AMY M TOULPS FAMILY TRUST OF 2013 DATED JUNE 14, 2013, ET AL | 827 | 119 |
| ✓ 24 | 10*25501 | 7-8-13 | W | AMP FUND III LP, ET AL | 925 | 459 |

FILE NO. 8939P16HU.dwg
 WILLETT S 16HU-REV2

DATE DECEMBER 1, 20 21

REVISED _____, 20 _____

OPERATORS WELL NO. WILLETT S 16HU

API WELL NO. 47 — 051 — 02423
 STATE COUNTY PERMIT



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



P.S. 677

Gregory A. Smith

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 FORT WORTH, TX 76107

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