

# VAN WINKLE N 4HM WELL TUG HILL OPERATING

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

5,033' T.H.

1,770' B.H.

T.H. LONGITUDE 80°42'30"  
B.H. LONGITUDE 80°45'00"  
3,629' T.H.  
6,890' B.H.

### 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 IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.



|          |                             |        |
|----------|-----------------------------|--------|
| 9-10-1.3 | FINLEY D. MONTGOMERY, ET UX | 20.294 |
| 5-10.5   | WILLIAM F. RULONG ET AL     | 27.5   |
| 5-10-7   | WILLIAM F. RULONG ET AL     | 22.872 |
| 5-10-8.1 | SAMUEL D. & BECKY ROBINSON  | 1.511  |
| 9-10-21  | JAMES & VICKIE J. MASON     | 2.00   |
| 9-10-22  | JAMES & VICKIE J. MASON     | 1.169  |

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

|                      |                   |                    |
|----------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT)    | N. 469,289.20     | E. 1,623,892.67    |
| NAD'83 GEO.          | LAT-(N) 39.781981 | LONG-(W) 80.726240 |
| NAD'83 UTM (M)       | N. 4,403,595.53   | E. 523,442.24      |
| <u>LANDING POINT</u> |                   |                    |
| NAD'83 S.P.C.(FT)    | N. 468,802.6      | E. 1,622,470.1     |
| NAD'83 GEO.          | LAT-(N) 39.780592 | LONG-(W) 80.731278 |
| NAD'83 UTM (M)       | N. 4,403,440.1    | E. 523,011.3       |
| <u>BOTTOM HOLE</u>   |                   |                    |
| NAD'83 S.P.C.(FT)    | N. 481,220.8      | E. 1,615,610.7     |
| NAD'83 GEO.          | LAT-(N) 39.814420 | LONG-(W) 80.75630  |
| NAD'83 UTM (M)       | N. 4,407,188.4    | E. 520,858.4       |

| TAG | SURFACE OWNER                       | PARCEL    | ACRES   |
|-----|-------------------------------------|-----------|---------|
| A   | TH EXPLORATION                      | 9-13-5.3  | 16.10   |
| B   | XCL MIDSTREAM OPERATING, LLC        | 9-13-5    | 168.73  |
| C   | XCL MIDSTREAM OPERATING, LLC        | 9-10-19.1 | 10.00   |
| D   | STATE OF WEST VIRGINIA (FISH CREEK) | N/A       | N/A     |
| E   | ALAN KELLEY ET AL                   | 9-10-19   | 113.08  |
| F   | CAROL VAN SCYOC EST                 | 9-10-2    | 206.988 |
| G   | WALTER J. FECAT, JR., ET UX         | 9-10-2.2  | 5.00    |
| H   | CAROL VAN SCYOC EST                 | 9-10-1    | 118.087 |
| I   | CONNIE S. CUNNINGHAM                | 9-10-1.1  | 0.482   |
| J   | WILLIAM F. RULONG, ET AL            | 5-10-8    | 70.6672 |
| K   | ROBERT GREGORY MCGUIRE, ET UX       | 5-9-10    | 139.60  |
| L   | ROBERT GREGORY MCGUIRE, ET UX       | 5-9-12    | 78.28   |
| M   | ROBERT GREGORY MCGUIRE, ET UX       | 5-9-9     | 49      |
| N   | PATRICIA McCLINTOCK                 | 5-9-7     | 110.02  |
| O   | LINDA S. OSTRANDER                  | 5-4-8.1   | 122.301 |
| P   | PATRICIA McCLINTOCK                 | 5-9-6     | 101     |

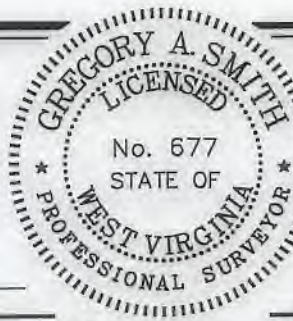
### REFERENCES



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.3634  
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. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE DECEMBER 2, 20 20  
REVISED 12-04-20, 12-10-20, 12-22-20, 6-1-22, 12-12-22  
OPERATORS WELL NO. VAN WINKLE N 4HM  
API WELL NO. 47 - 051 - 2348  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P4HMR5.dwg  
VAN WINKLE N 4HM-REV4  
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  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 753.50' WATERSHED FISH CREEK (HUC 10)  
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER TH EXPLORATION, LLC ACREAGE 16.10 ±  
ROYALTY OWNER DENNIS HUNTER, ET AL - SEE WW-6A1 ACREAGE 190.12 ±  
PROPOSED WORK: 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 MARCELLUS  
ESTIMATED DEPTH TVD: 6,275' / TMD: 20,969'

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

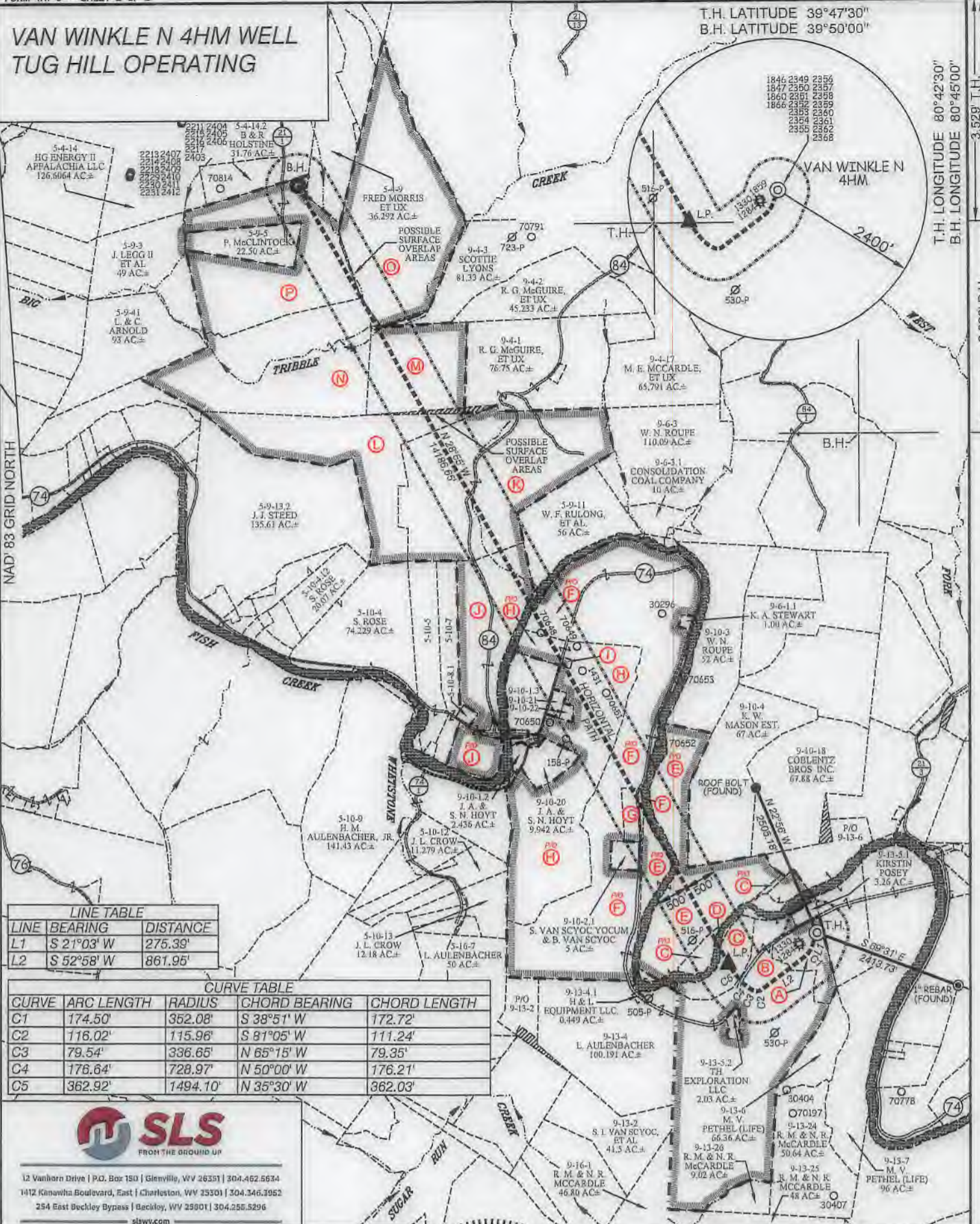
01/06/2023

COUNTY NAME  
PERMIT

**VAN WINKLE N 4HM WELL  
TUG HILL OPERATING**

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B.H. LATITUDE 39°50'00"

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



**LINE TABLE**

| LINE | BEARING    | DISTANCE |
|------|------------|----------|
| L1   | S 21°03' W | 275.39'  |
| L2   | S 52°58' W | 861.95'  |

**CURVE TABLE**

| CURVE | ARC LENGTH | RADIUS   | CHORD BEARING | CHORD LENGTH |
|-------|------------|----------|---------------|--------------|
| C1    | 174.50'    | 352.08'  | S 38°51' W    | 172.72'      |
| C2    | 116.02'    | 115.96'  | S 81°05' W    | 111.24'      |
| C3    | 79.54'     | 336.65'  | N 65°15' W    | 79.35'       |
| C4    | 176.64'    | 728.97'  | N 50°00' W    | 176.21'      |
| C5    | 362.92'    | 1494.10' | N 35°30' W    | 362.03'      |

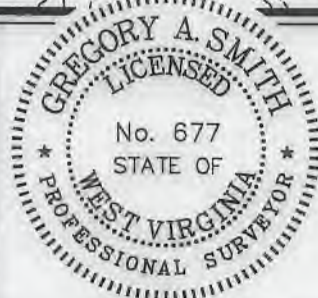


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SCALE 1" = 2000' FILE NO. 8952P4HMR5.dwg  
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

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            |  |
| SURFACE OWNER (SEE TABLE) |  |
| LEASE # (SEE WW-5A1)      |  |

COUNTY NAME  
PERMIT

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FORT WORTH, TX 76107

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