

11,444' B.H.

7,537' T.H.

HEAVEN HILL 3N
WELL 11HM
TUG HILL OPERATING

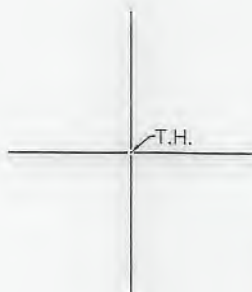
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

| | | |
|--|-------------------|--------------------|
| (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH) | | |
| NAD'83 S.P.C.(FT) | N. 478,871.75 | E. 1,633,223.33 |
| NAD'83 GEO. | LAT-(N) 39.808631 | LONG-(W) 80.693495 |
| NAD'83 UTM (M) | N. 4,405,582.41 | E. 526,236.09 |
| <u>LANDING POINT</u> | | |
| NAD'83 S.P.C.(FT) | N. 476,793.4 | E. 1,632,559.5 |
| NAD'83 GEO. | LAT-(N) 39.802901 | LONG-(W) 80.695759 |
| NAD'83 UTM (M) | N. 4,405,925.8 | E. 526,044.4 |
| <u>BOTTOM HOLE</u> | | |
| NAD'83 S.P.C.(FT) | N. 482,745.0 | E. 1,629,366.2 |
| NAD'83 GEO. | LAT-(N) 39.819122 | LONG-(W) 80.707409 |
| NAD'83 UTM (M) | N. 4,407,722.8 | E. 525,041.3 |

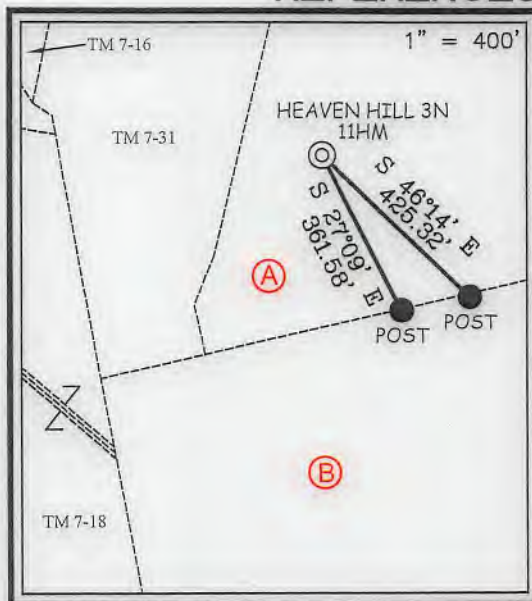
T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"

5,177' B.H.

8,999' T.H.



REFERENCES



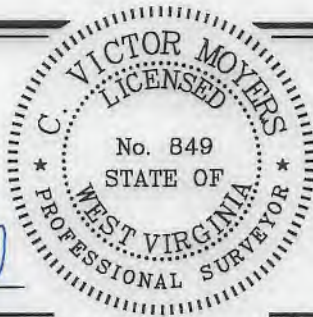
NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

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 AUGUST 30, 20 19
 REVISED NOVEMBER 5, 20 19
 OPERATORS WELL NO. HEAVEN HILL 3N-11HM
 API WELL NO. 47 - 051 - 02303
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P11HMR.dwg
HEAVEN HILL 3-11HM 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 LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION GROUND = 1,330.00' PROPOSED = 1,326.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)
 DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'
 SURFACE OWNER RICKY L. WHITLATCH ACREAGE 72.82±
 ROYALTY OWNER RICKY L. WHITLATCH, ET AL ACREAGE 72.82±
 PROPOSED WORK: LEASE NO. SEE WW-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 MARCELLUS
 ESTIMATED DEPTH TVD: 6,966' / TMD: 14,681'

COUNTY NAME

PERMIT

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

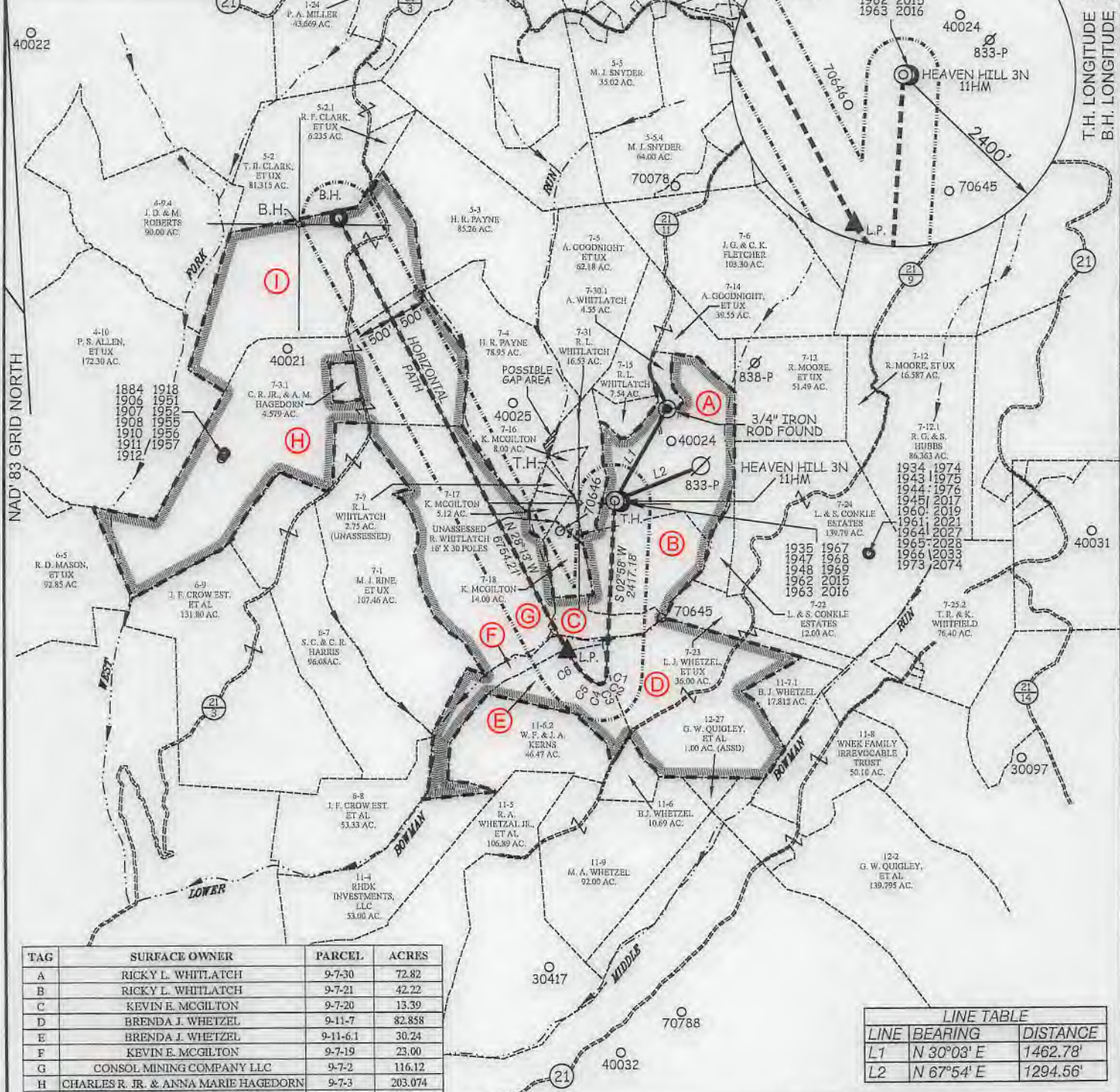
DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM
 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

HEAVEN HILL 3N
WELL 11HM
TUG HILL OPERATING

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

T.H. LONGITUDE 80°40'00"
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NAD '83 GRID NORTH

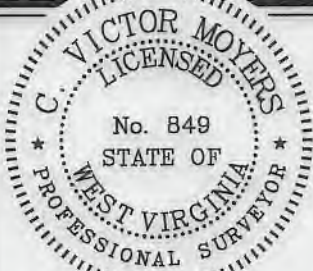


| TAG | SURFACE OWNER | PARCEL | ACRES |
|-----|--------------------------------------|----------|---------|
| A | RICKY L. WHITLATCH | 9-7-30 | 72.82 |
| B | RICKY L. WHITLATCH | 9-7-21 | 42.22 |
| C | KEVIN E. MCGILTON | 9-7-20 | 13.39 |
| D | BRENDA J. WHEITZEL | 9-11-7 | 82.858 |
| E | BRENDA J. WHEITZEL | 9-11-6.1 | 30.24 |
| F | KEVIN E. MCGILTON | 9-7-19 | 23.00 |
| G | CONSOL MINING COMPANY LLC | 9-7-2 | 116.12 |
| H | CHARLES R. JR. & ANNA MARIE HAGEDORN | 9-7-3 | 203.074 |
| I | TERRI L. & HARIKLIA SAMPSON | 9-5-1 | 111.71 |

| LINE TABLE | | |
|------------|------------|----------|
| LINE | BEARING | DISTANCE |
| L1 | N 30°03' E | 1462.78' |
| L2 | N 67°54' E | 1294.56' |

| CURVE TABLE | | | | |
|-------------|------------|----------|---------------|--------------|
| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
| C1 | 53.85' | 269.22' | S 08°49' W | 53.76' |
| C2 | 47.61' | 134.14' | S 24°40' W | 47.36' |
| C3 | 64.17' | 74.01' | S 61°39' W | 62.18' |
| C4 | 58.45' | 151.80' | N 79°45' W | 58.09' |
| C5 | 177.56' | 494.61' | N 54°58' W | 176.61' |
| C6 | 433.72' | 1443.83' | N 36°00' W | 432.09' |

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 | 12 Vanhook Drive | Glenville, WV 26031 | (304) 482-5634
www.sls-wv.com



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P.S. 849 *C. Victor Moyers*

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)

SCALE 1" = 2000' FILE NO. 8654P11HMR.dwg
HEAVEN HILL 3-11HM REV3
DATE AUGUST 30 20 19
REVISED NOVEMBER 5 20 19
OPERATORS WELL NO. HEAVEN HILL 3N-11HM
API WELL NO. 47
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STATE OF WEST VIRGINIA
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ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

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ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

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