

**KNOB CREEK S LEASE
WELL 10HM
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

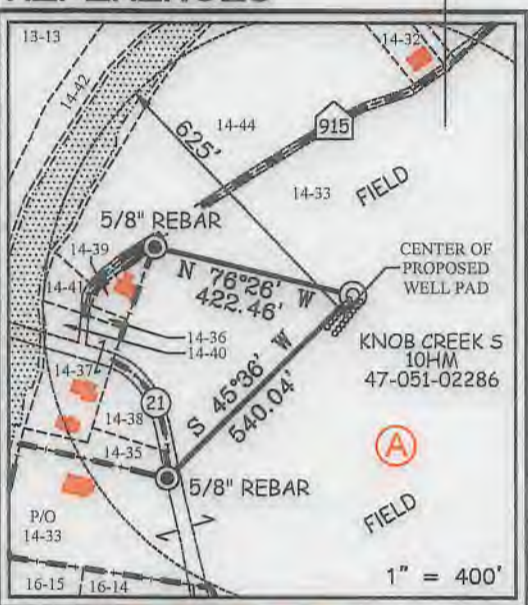
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

| | | |
|----------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 464,904.41 | E. 1,629,692.01 |
| NAD'83 GEO. | LAT-(N) 39.770160 | LONG-(W) 80.705397 |
| NAD'83 UTM (M) | N. 4,402,289.21 | E. 525,231.36 |
| LANDING POINT | | |
| NAD'83 S.P.C.(FT) | N. 465,012.8 | E. 1,631,480.7 |
| NAD'83 GEO. | LAT-(N) 39.770523 | LONG-(W) 80.699039 |
| NAD'83 UTM (M) | N. 4,402,331.3 | E. 525,775.7 |
| BOTTOM HOLE | | |
| NAD'83 S.P.C.(FT) | N. 456,730.5 | E. 1,636,112.6 |
| NAD'83 GEO. | LAT-(N) 39.747956 | LONG-(W) 80.682174 |
| NAD'83 UTM (M) | N. 4,399,831.7 | E. 527,229.0 |

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"
745' B.H.
7,834' T.H.

| MAP/PARCEL | ADJOINING SURFACE OWNER LIST | ACRES |
|------------|-------------------------------|----------------|
| 9-13-13 | MARGARET K. FOX - LIFE | 15.513 |
| 9-14-28 | CHARLES R. SCHELLHASE, ET UX | 3.029 |
| 9-14-29 | ANDREW FASOULETOS, ET UX | 0.209 |
| 9-14-29.1 | ANDREW FASOULETOS, ET UX | 1.171 |
| 9-14-30 | WILLIAM C. GROFT, ET UX | 0.33 |
| 9-14-31 | WILFORD E. NELSON, JR., ET UX | 0.954 |
| 9-14-32 | TWILA C. COFFIELD | 0.583 |
| 9-14-32.1 | TWILA C. COFFIELD | 0.184 |
| 9-14-35 | PAUL G. FOX | 0.338 |
| 9-14-36 | MARGARET FOX - LIFE | 1600 SQ. FT. |
| 9-14-37 | MARGARET FOX - LIFE | LOT (ASSD) |
| 9-14-38 | MARGARET FOX - LIFE | 0.631 |
| 9-14-39 | MARGARET FOX - LIFE | 8675 SQ. FT. |
| 9-14-40 | MARGARET FOX - LIFE | 19,560 SQ. FT. |
| 9-14-41 | MARGARET FOX - LIFE | 9165 SQ. FT. |
| 9-14-42 | JOHN C. LAGOS, ET UX | 1.87 |
| 9-14-44 | DAVID LEE FRANKLIN | 2.913 |
| 9-14-54 | RICHARD L. HARVETH, ET UX | 1.649 |
| 9-16-14 | LYNN CAMP METHODIST CHURCH | 0.762 |
| 9-16-15.1 | ERIC J. YOUNG | 1.98 |

REFERENCES



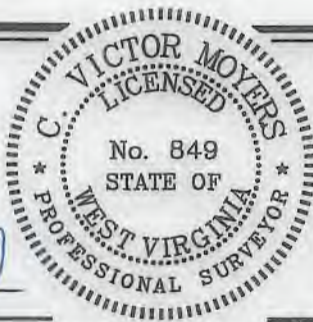
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.2295
sfsww.com

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- SEE REFERENCES FOR DWELLINGS LOCATED 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.

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 JULY 27, 20 18
REVISED 09-30-2019, 08-28-2020, 10-29-2020
OPERATORS WELL NO. KNOB CREEK S-10HM
API WELL NO. 47 - 051 - 02286
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P10HMR3.dwg
KNOB CREEK S-10HM-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 737.50' WATERSHED FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE B.H. - WILEYVILLE 7.5'
T.H. - GLEN EASTON 7.5'

SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±
ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-6A1 ACREAGE 63.921±

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: 6,382' / TMD: 16,440'

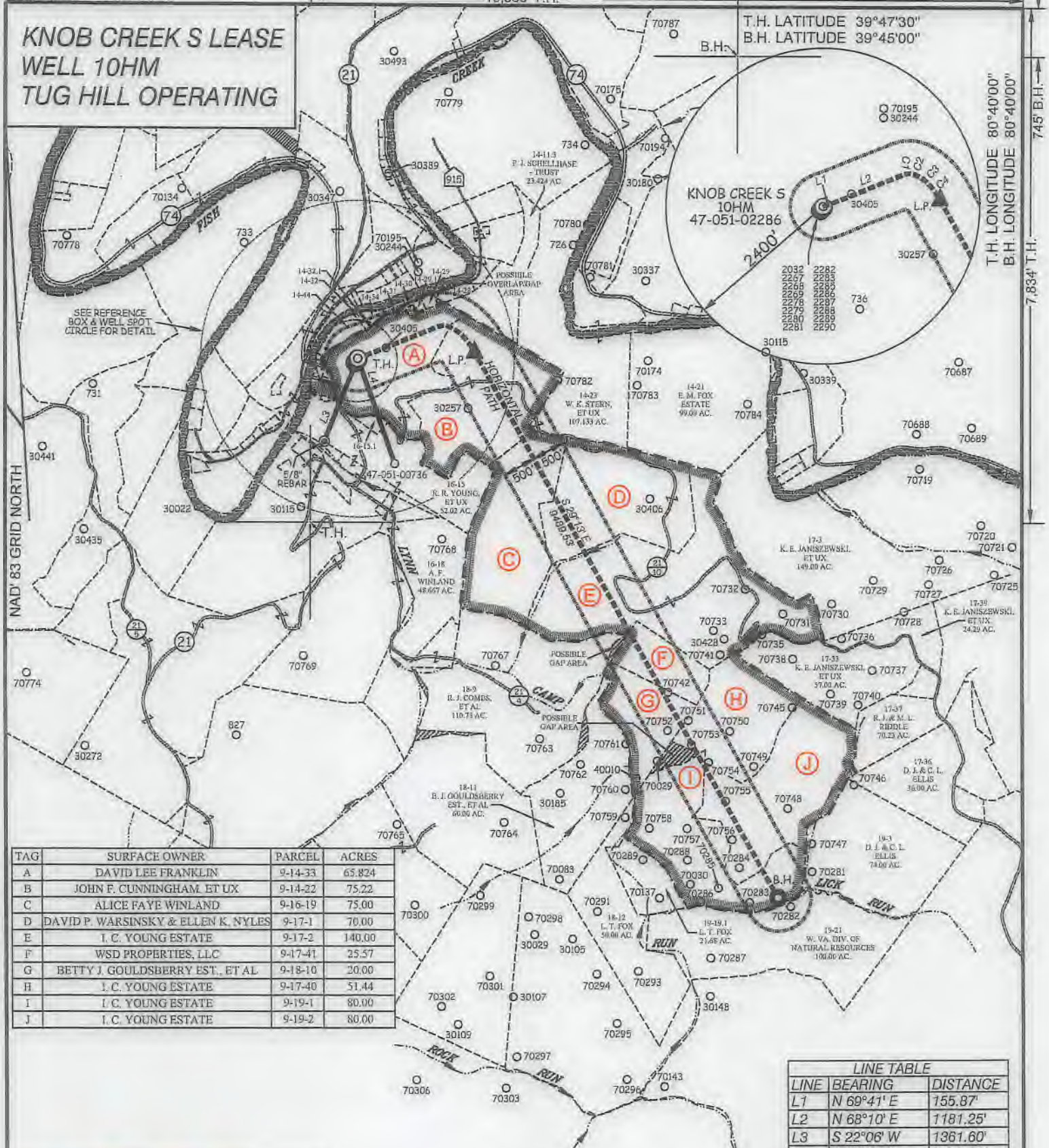
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS CT CORPORATION SYSTEM
FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**KNOB CREEK S LEASE
WELL 10HM
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

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



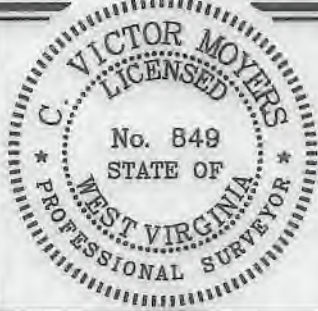
| TAG | SURFACE OWNER | PARCEL | ACRES |
|-----|-------------------------------------|---------|--------|
| A | DAVID LEE FRANKLIN | 9-14-33 | 65.824 |
| B | JOHN F. CUNNINGHAM, ET UX | 9-14-22 | 75.22 |
| C | ALICE FAYE WINLAND | 9-16-19 | 75.00 |
| D | DAVID P. WARSINSKY & ELLEN K. NYLES | 9-17-1 | 70.00 |
| E | I. C. YOUNG ESTATE | 9-17-2 | 140.00 |
| F | WSD PROPERTIES, LLC | 9-17-41 | 25.57 |
| G | BETTY J. GOULDSBERRY EST., ET AL | 9-18-10 | 20.00 |
| H | I. C. YOUNG ESTATE | 9-17-40 | 51.44 |
| I | I. C. YOUNG ESTATE | 9-19-1 | 80.00 |
| J | I. C. YOUNG ESTATE | 9-19-2 | 80.00 |

| LINE | BEARING | DISTANCE |
|------|------------|----------|
| L1 | N 69°41' E | 155.87' |
| L2 | N 68°10' E | 1181.25' |
| L3 | S 22°06' W | 1361.60' |
| L4 | S 19°37' E | 1691.35' |

| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
|-------|------------|----------|---------------|--------------|
| C1 | 102.68' | 194.20' | N 84°44' E | 101.49' |
| C2 | 124.23' | 380.34' | S 70°23' E | 123.68' |
| C3 | 242.95' | 702.85' | S 50°48' E | 241.75' |
| C4 | 245.30' | 1184.19' | S 85°12' E | 244.86' |



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slsw.com



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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. 8789P10HMR3.dwg
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