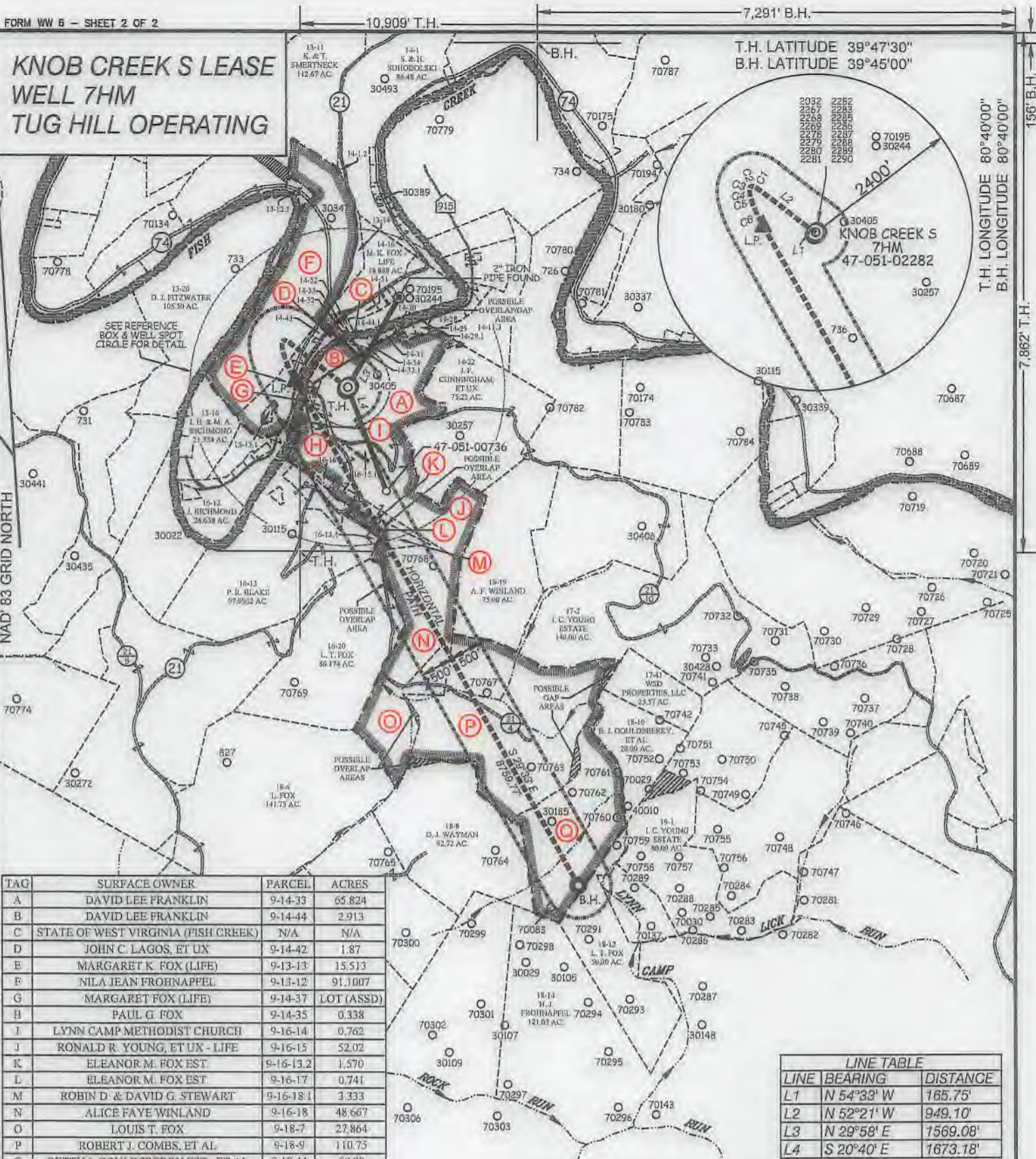


**KNOB CREEK S LEASE
WELL 7HM
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	DAVID LEE FRANKLIN	9-14-44	2.913
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	JOHN C. LAGOS, ET UX	9-14-42	1.87
E	MARGARET K. FOX (LIFE)	9-13-13	15.513
F	NILA JEAN FROHNAPPEL	9-13-12	91.1007
G	MARGARET FOX (LIFE)	9-14-37	LOT (ASSD)
H	PAUL G. FOX	9-14-35	0.338
J	LYNN CAMP METHODIST CHURCH	9-16-14	0.762
J	RONALD R. YOUNG, ET UX - LIFE	9-16-15	52.02
K	ELEANOR M. FOX EST.	9-16-13.2	1.570
L	ELEANOR M. FOX EST.	9-16-17	0.741
M	ROBIN D. & DAVID G. STEWART	9-16-18.1	3.333
N	ALICE FAYE WINLAND	9-16-18	48.667
O	LOUIS T. FOX	9-18-7	27.864
P	ROBERT J. COMBS, ET AL	9-18-9	110.75
Q	BETTY J. GOULDSBERRY EST., ET AL.	9-18-11	60.00

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 54°33' W	165.75'
L2	N 52°21' W	949.10'
L3	N 29°58' E	1569.08'
L4	S 20°40' E	1673.18'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	72.77'	175.89'	N 63°08' W	72.25'
C2	44.87'	36.87'	S 67°53' W	42.15'
C3	44.81'	101.50'	S 13°57' W	44.45'
C4	96.49'	406.33'	S 06°47' E	96.27'
C5	138.10'	1162.65'	S 16°45' E	138.02'
C6	353.71'	2218.34'	S 25°20' E	353.33'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26331 | 304.462.5534
 1413 Kanawha Boulevard, East | Charleston, WV 25301 | 804.546.2932
 254 East Beckley Bypass | Beckley, WV 25801 | 304.355.3295
 slsww.com



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

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. 8789P7HMR3.dwg
 KNOB CREEK S-7HM-REV3
 DATE JULY 27, 20 18
 REVISED 09-30-2019, 08-28-2020, 10-29-2020
 OPERATORS WELL NO. KNOB CREEK S-7HM
 API WELL NO. 47 - 051 - 02282 MOD
 NO. STATE COUNTY PERMIT

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

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

COUNTY NAME PERMIT

**KNOB CREEK S LEASE
WELL 7HM
TUG HILL OPERATING**

10,909' T.H. 7,291' B.H.

B.H.

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

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

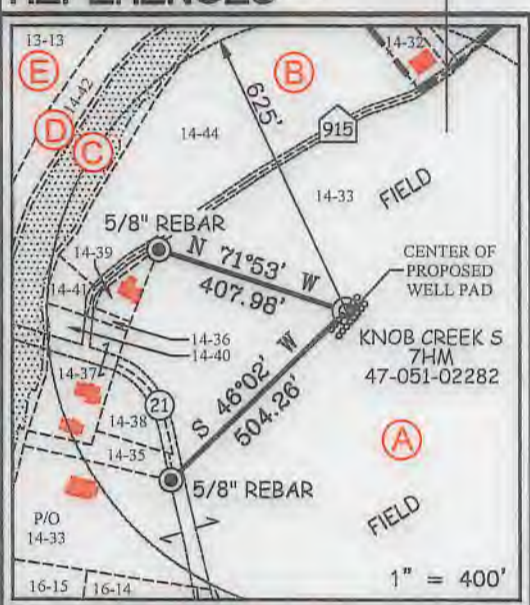
NAD'83 S.P.C.(FT)	N. 464,876.65	E. 1,629,669.09
NAD'83 GEO.	LAT-(N) 39.770083	LONG-(W) 80.705477
NAD'83 UTM (M)	N. 4,402,280.63	E. 525,224.51
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 464,979.0	E. 1,628,870.6
NAD'83 GEO.	LAT-(N) 39.770334	LONG-(W) 80.708322
NAD'83 UTM (M)	N. 4,402,307.7	E. 524,980.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 467,358.0	E. 1,633,189.7
NAD'83 GEO.	LAT-(N) 39.749572	LONG-(W) 80.692598
NAD'83 UTM (M)	N. 4,400,008.0	E. 526,335.4

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

7,862' T.H.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-12.1	ROBERT T. & BARBARA A. ANKROM	2.632
9-13-13.1	THOMAS JOHN FOX	0.827
9-13-14	MARGARET K. FOX - LIFE	3.00
9-14-1.2	KENNETH N. & TERESA A. SMERTNECK	1.02
9-14-11.3	PATRICK J. SCHELLHASE - TRUST	23.424
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	0.35
9-14-31	WILFORD F. NELSON, JR., ET UX	0.954
9-14-32	TWILA C. COFFIELD	0.583
9-14-32.1	TWILA C. COFFIELD	0.184
9-14-36	MARGARET FOX - LIFE	1600 SQ. FT.
9-14-38	MARGARET FOX - LIFE	0.651
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.
9-14-43	JAMES G. FOX	0.66
9-14-44.1	GEORGE R. TAYLOR, ET UX	4.423
9-14-51	GEORGE R. TAYLOR, ET UX	1.621
9-14-52	JAMES E. PEELMAN	0.439
9-14-53	JAMES E. PEELMAN	0.555
9-14-54	RICHARD L. HARVETH, ET UX	1.649
9-16-13.4	JOHN FOX	0.533
9-16-15.1	ERIC J. YOUNG	1.98
9-16-16	CLINTON B. WHITELATCH, SR., ET UX ESTS	1.98

REFERENCES



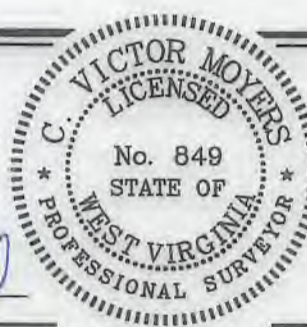
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254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5298
slsvv.com

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-7HM
API WELL NO. 47 - 051 - 02282
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P7HMR3.dwg
KNOB CREEK S-7HM-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 WV-6A1 ACREAGE 65.824±

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: 6,348' / TMD: 15,590'

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