

**KNOB CREEK N LEASE  
WELL 1HM  
TUG HILL OPERATING**

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

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

NAD'83 S.P.C.(FT) N. 464,839.63 E. 1,629,638.52  
NAD'83 GEO. LAT-(N) 39.769980 LONG-(W) 80.705564  
NAD'83 UTM (M) N. 4,402,269.20 E. 525,215.39

LANDING POINT

NAD'83 S.P.C.(FT) N. 465,094.1 E. 1,628,085.3  
NAD'83 GEO. LAT-(N) 39.770621 LONG-(W) 80.711122  
NAD'83 UTM (M) N. 4,402,338.8 E. 524,740.9

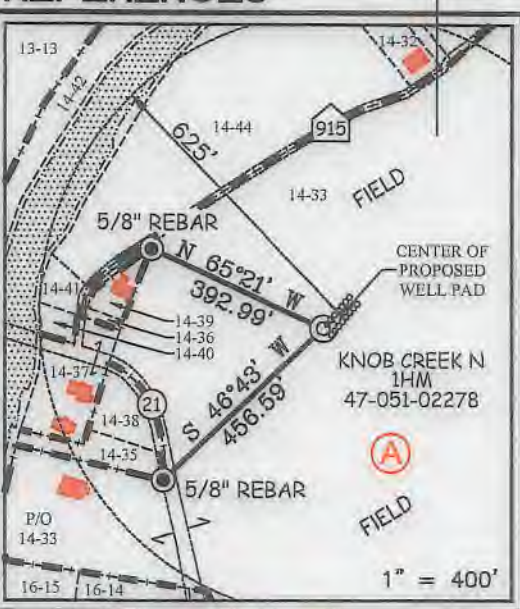
BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 476,464.1 E. 1,621,722.3  
NAD'83 GEO. LAT-(N) 39.801595 LONG-(W) 80.734313  
NAD'83 UTM (M) N. 4,405,770.4 E. 522,744.5

**NOTES ON SURVEY**

1. 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.
2. SEE REFERENCES FOR DWELLINGS LOCATED WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
3. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
4. BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.

**REFERENCES**



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-6-1.2	CONSOLIDATION COAL COMPANY, MURRAY ENERGY	2.722
9-10-7	DAVID & PAMELA SCHIMMEL	1.00
9-10-8	BRENT ALLEN CONNER	2.00
9-10-14	WILLIAM MCCONNELL	15.00
9-10-16	WILLIAM D. MCCONNELL	0.859
9-11-1	GERALD F. PADLOW	1.033
9-13-9	ARTHUR L. MOORE	50 X 100 SQ. FT.
9-13-10	ARTHUR L. MOORE	3.96
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
9-13-16	IVAN H. & MARGARET A. RICHMOND	21.334
9-13-22.1	HENRY, JR. & BARBARA DICK	11.82
9-13-22.2	EUGENE A. SCHERRER	0.925
9-13-23	MARGARET FOX - LIFE	1.52
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
9-14-35	PAUL G. FOX	0.338
9-14-36	MARGARET FOX - LIFE	1600 SQ. FT.
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
9-14-43	JAMES G. FOX	0.66
9-14-44	DAVID LEE FRANKLIN	2.913
9-14-44.1	GEORGE R. TAYLOR, ET UX	4.423
9-14-45	GEORGE R. TAYLOR, ET UX	10.98
9-14-46	MARGARET K. FOX - LIFE	18,888
9-14-47	MICHAEL L. & CHERYL J. ACREE	0.355
9-14-48	MICHAEL L. & CHERYL J. ACREE	0.473
9-14-49	MICHAEL L. & CHERYL J. ACREE	0.118
9-14-50	RONALD MARSH	0.707
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
9-16-14	LYNN CAMP METHODIST CHURCH	0.762
9-16-15	RONALD R. YOUNG, ET UX - LIFE	52.02
9-16-15.1	ERIC J. YOUNG	1.98

T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°42'30"

7,900' T.H.

11,561' B.H.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.8634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
250 East Beckley Bypass | Beckley, WV 26801 | 304.355.5296  
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. *C. Victor Moyers*  
849



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JULY 22, 20 18  
REVISED 09-30-2019, 08-28-2020, 10-29-2020

OPERATORS WELL NO. KNOB CREEK N-1HM  
API WELL NO. 47 - 051 - 02278  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P1HMR3.dwg  
KNOB CREEK N-1HM-REV2  
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

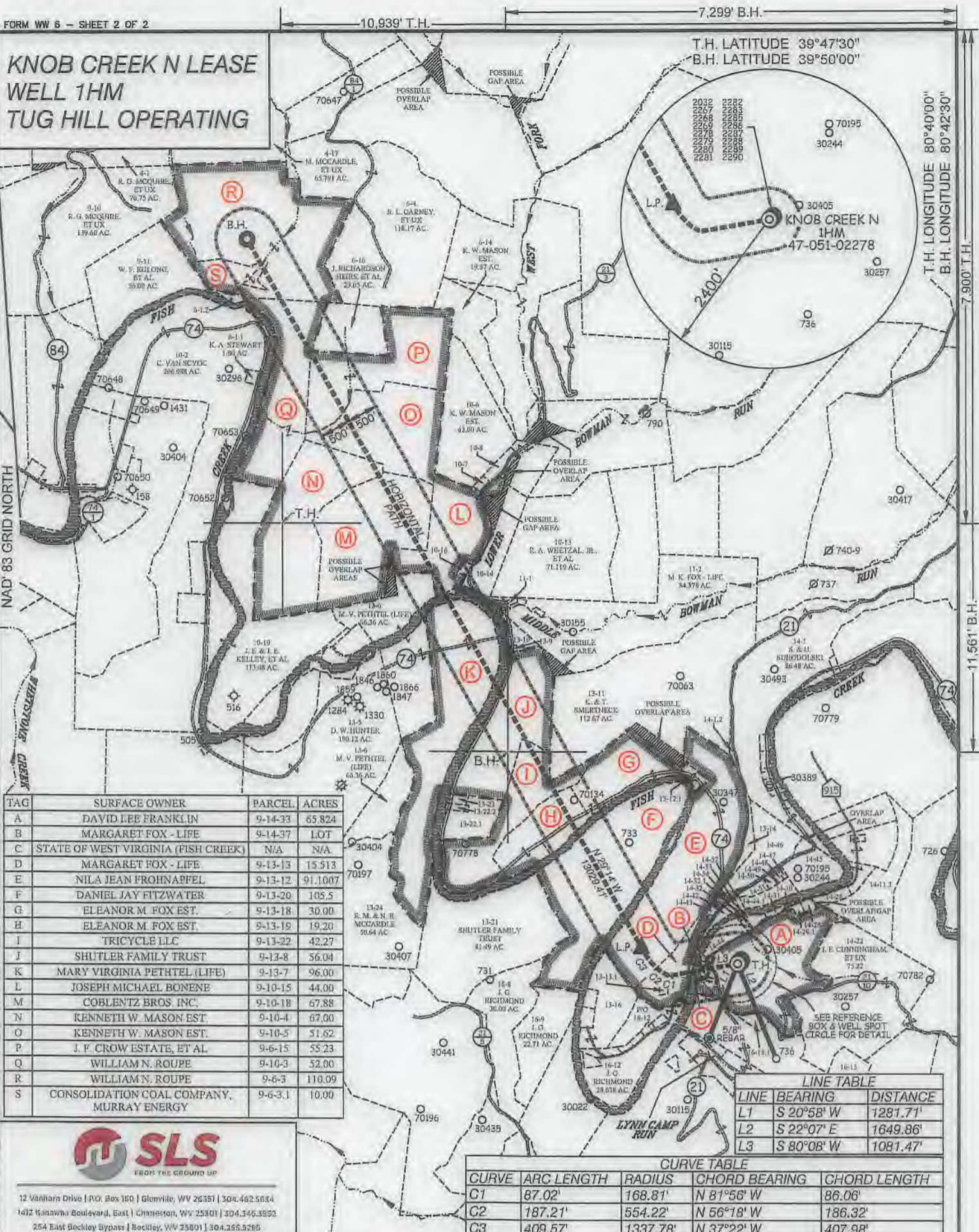
WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION:  
ELEVATION 737.50' WATERSHED FISH CREEK (HUC 10)  
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'  
SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±  
ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-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: 6,338' / TMD: 19,814'

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 N Lease  
Well 1HM  
Tug Hill Operating**



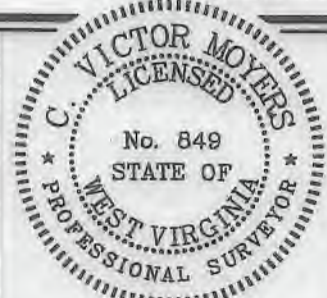
TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	MARGARET FOX - LIFE	9-14-37	LOT
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	MARGARET FOX - LIFE	9-13-13	15.513
E	NILA JEAN FROHNAPFEL	9-13-12	91.1007
F	DANIEL JAY FITZWATER	9-13-20	105.5
G	ELEANOR M. FOX EST.	9-13-18	30.00
H	ELEANOR M. FOX EST.	9-13-19	19.20
I	TRICYCLE LLC	9-13-22	42.27
J	SHUTLER FAMILY TRUST	9-13-8	56.04
K	MARY VIRGINIA PETHTEL (LIFE)	9-13-7	96.00
L	JOSEPH MICHAEL BONENE	9-10-15	44.00
M	COBLENTZ BROS INC.	9-10-18	67.88
N	KENNETH W. MASON EST.	9-10-4	67.00
O	KENNETH W. MASON EST.	9-10-5	51.62
P	J. F. CROW ESTATE, ET AL	9-6-15	55.23
Q	WILLIAM N. ROUPE	9-10-3	52.00
R	WILLIAM N. ROUPE	9-6-3	110.09
S	CONSOLIDATION COAL COMPANY, MURRAY ENERGY	9-6-3.1	10.00

LINE	BEARING	DISTANCE
L1	S 20°58' W	1287.71'
L2	S 22°07' E	1649.86'
L3	S 80°08' W	1081.47'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	87.02'	168.81'	N 81°56' W	86.06'
C2	187.21'	554.22'	N 56°18' W	186.32'
C3	409.57'	1337.78'	N 37°22' W	407.98'



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P.S. *C. Victor Moyers*  
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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	00-00
SURFACE OWNER (SEE TABLE)	(A)
LEASE # (SEE WW-6A1)	

SCALE 1" = 2000' FILE NO. 8789P1HMR3.dwg  
 KNOB CREEK N-1HM-REV2  
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 OFFICE OF OIL AND GAS

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

COUNTY NAME PERMIT