

**Knob Creek N Lease  
Well 5HM  
Tug Hill Operating**

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

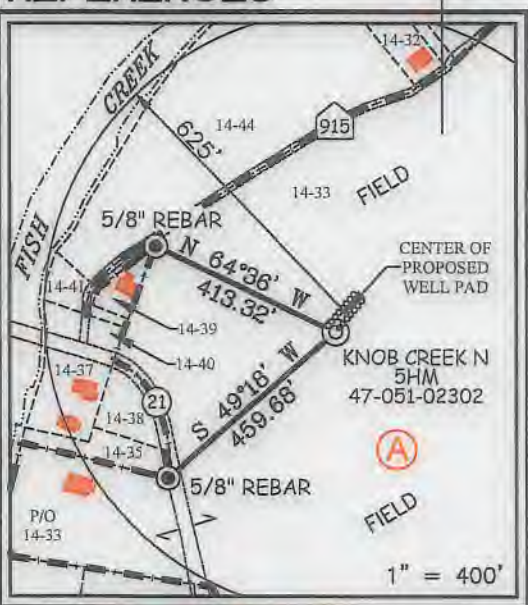
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 464,826.26	E. 1,629,654.71
NAD'83 GEO.	LAT-(N) 39.769944	LONG-(W) 80.705526
NAD'83 UTM (M)	N. 4,402,265.21	E. 525,220.39
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 465,400.1	E. 1,631,348.3
NAD'83 GEO.	LAT-(N) 39.771581	LONG-(W) 80.699528
NAD'83 UTM (M)	N. 4,402,448.7	E. 525,733.4
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 470,104.0	E. 1,628,682.5
NAD'83 GEO.	LAT-(N) 39.784396	LONG-(W) 80.709237
NAD'83 UTM (M)	N. 4,403,868.2	E. 524,897.3

**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. FIVE (5) DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. WAIVER TO BE OBTAINED.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

**REFERENCES**



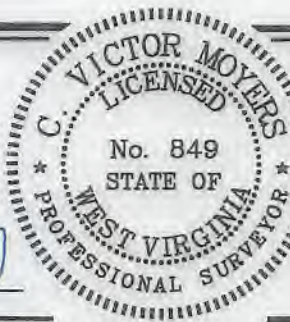
TAX MAP/PCL	ADJOINING SURFACE OWNER	ACREAGE
13-11.1	SAMUEL & HEATHER SUHODOLSKI	0.49
13-14	MARGARET K. FOX - LIFE (C/O PAUL FOX)	3.00
14-1.1	MICHAEL L. ALVAREZ	1.6
14-3	MICHAEL L. ALVAREZ	NORTH P/O 3 PCLS
14-4	MICHAEL L. ALVAREZ	3 PCLS & 1/8 AC.
14-5	MICHAEL L. ALVAREZ	200' X 60' PCL
14-6	MICHAEL L. ALVAREZ	120' X 200' PCL
14-7	JOHN T. ERAZMUS, III	0.25
14-8	JOHNNY C. & JOHNNY C. II HOLCOMB	0.80
14-9	JOHN E. DUFFY, ET UX	0.80
14-10	ROBERT I. DUFFY - LIFE (C/O CAROLYN L. DUFFY)	0.25
14-11.1	PATRICK J. SCHELLHASE - TRUST	7.617
14-11.2	LOYE A. BLAKE	4.00
14-26	PATRICK J. SCHELLHASE - TRUST	12.588
14-27	PATRICK J. SCHELLHASE - TRUST	3.004
14-28	CHARLES R. SCHELLHASE, ET UX	3.029
14-29	ANDREW FASOULETOS, ET UX (C/O TENA MARIE STRICKLIN)	0.209
14-29.1	ANDREW FASOULETOS, ET UX (C/O TENA MARIE STRICKLIN)	1.171
14-32	TWILA C. COFFIELD	0.583
14-32.1	TWILA C. COFFIELD	0.184
14-35	PAUL G. FOX	0.338
14-36	MARGARET K. FOX - LIFE (C/O PAUL FOX)	1600 SQ. FT.
14-37	MARGARET K. FOX - LIFE (C/O PAUL FOX)	LOT
14-38	MARGARET K. FOX - LIFE (C/O PAUL FOX)	0.631
14-39	MARGARET K. FOX - LIFE (C/O PAUL FOX)	8675 SQ. ST.
14-40	MARGARET K. FOX - LIFE (C/O PAUL FOX)	19,560 SQ. FT.
14-41	MARGARET K. FOX - LIFE (C/O PAUL FOX)	9165 SQ. FT.
14-44	DAVID LEE FRANKLIN	2.913
14-44.1	GEORGE R. TAYLOR, ET UX	4.423
14-47	MICHAEL L. & CHERYL J. ACREE	0.355
14-48	MICHAEL L. & CHERYL J. ACREE	0.473
14-49	MICHAEL L. & CHERYL J. ACREE	0.118
14-50	RONALD MARSH	0.707
14-51	GEORGE R. TAYLOR, ET UX	1.621
14-52	JAMES E. PEELMAN	0.439
14-53	JAMES E. PEELMAN	0.555
14-54	RICHARD L. HARVETH, ET UX (C/O RICHARD LEE HARVETH)	1.649
16-14	LYNN CAMP METHODIST CHURCH	0.762
16-15.1	ERIC J. YOUNG	1.98

T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°42'30"  
7,913' T.H.



12 Vanborn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 204.246.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.256.5295  
slsvw.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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE APRIL 12, 20 18  
REVISED 10-23-2020, 10-29-2020

OPERATORS WELL NO. Knob Creek N-5HM  
API WELL NO. 47 - 051 - 02032  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P5HMR3.dwg  
Knob Creek N-5HM-REV5

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

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±  
**03/19/2021**

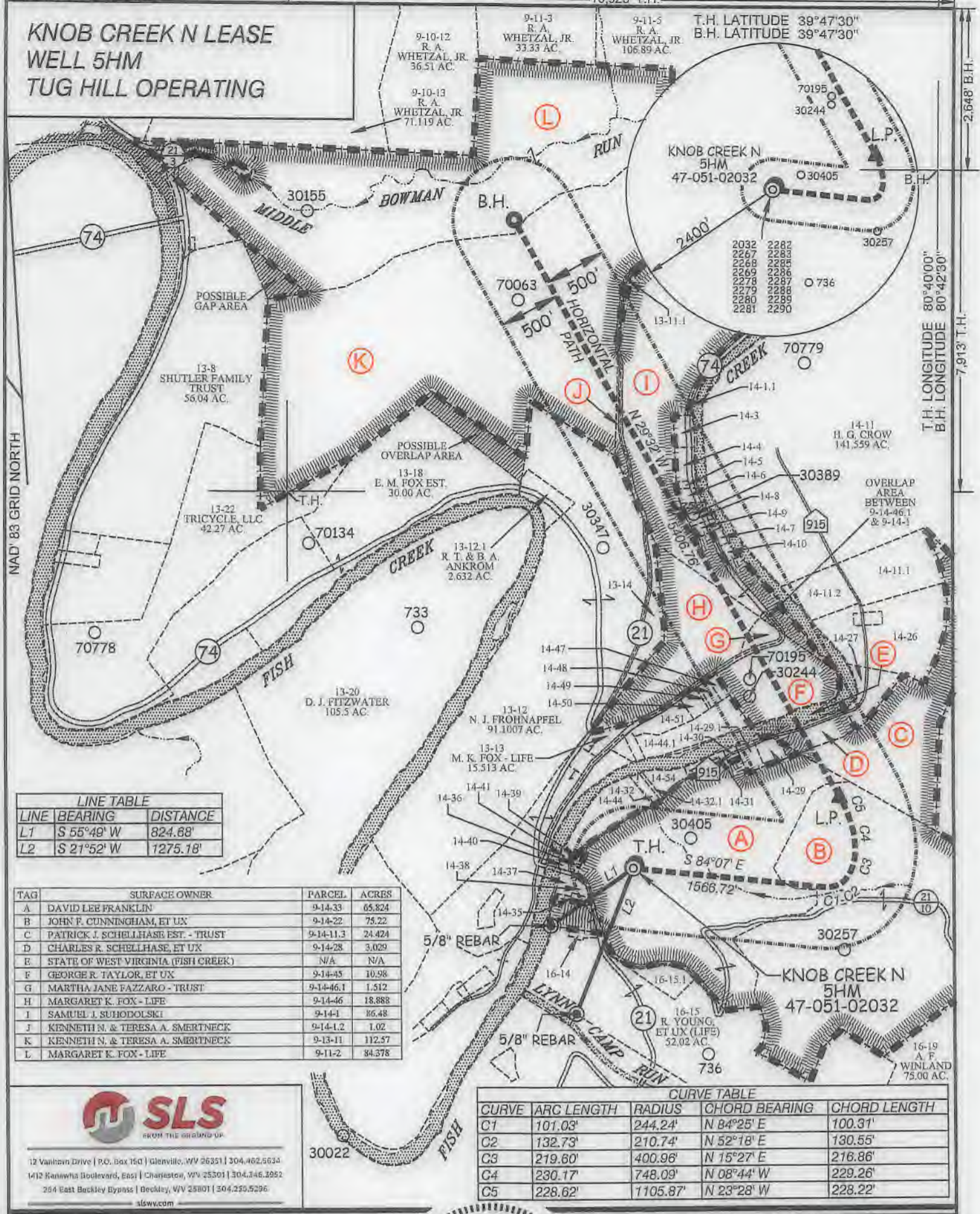
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH TVD: 6,368' / TMD: 12,588'

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 5HM  
Tug Hill Operating**



T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°42'30"  
7,913' T.H.  
2,648' B.H.

**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S 55°49' W	824.68'
L2	S 21°52' W	1275.18'

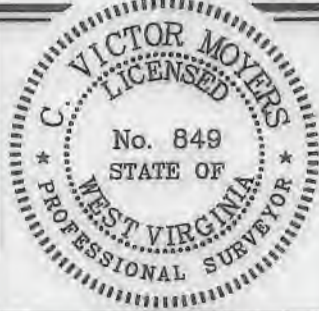
TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	JOHN F. CUNNINGHAM, ET UX	9-14-22	75.22
C	PATRICK J. SCHELLHASE EST. - TRUST	9-14-11.3	24.424
D	CHARLES R. SCHELLHASE, ET UX	9-14-28	3.029
E	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
F	GEORGE R. TAYLOR, ET UX	9-14-45	10.98
G	MARTHA JANE FAZZARO - TRUST	9-14-46.1	1.512
H	MARGARET K. FOX - LIFE	9-14-46	18.888
I	SAMUEL J. SUHODOLSKI	9-14-1	86.48
J	KENNETH N. & TERESA A. SMERTNECK	9-14-1.2	1.02
K	KENNETH N. & TERESA A. SMERTNECK	9-13-11	112.57
L	MARGARET K. FOX - LIFE	9-11-2	84.378

**CURVE TABLE**

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	101.03'	244.24'	N 84°25' E	100.31'
C2	132.73'	210.74'	N 52°18' E	130.55'
C3	219.80'	400.96'	N 15°27' E	216.86'
C4	230.17'	748.09'	N 08°44' W	229.26'
C5	228.62'	1105.87'	N 23°28' W	228.22'



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 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.2952  
 264 East Beckley Bypass | Beckley, WV 25801 | 304.229.5296  
 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-5A1)

SCALE 1" = 1000' FILE NO. 8789P5HMR3.dwg  
 KNOB CREEK N-5HM-REV/5

DATE APRIL 12, 2018  
 REVISED 10-23-2020, 10-29-2020

OPERATORS WELL NO. KNOB CREEK N-5HM  
 API WELL NO. 47-051-02032  
 NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 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

03/19/2021