

**KNOB CREEK S LEASE
WELL 6HM
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)

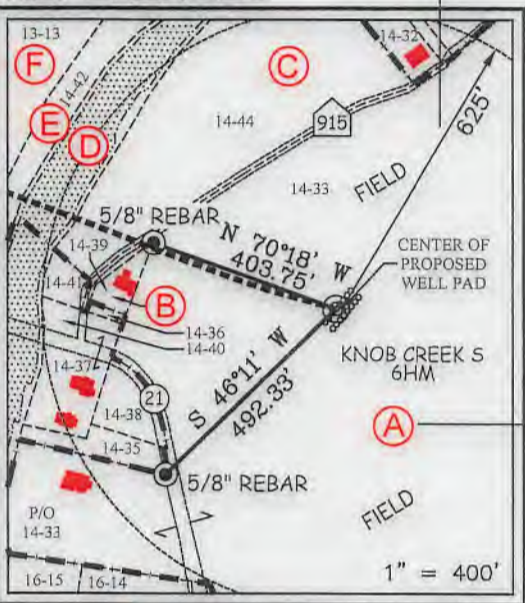
NAD'83 S.P.C.(FT)	N. 464,867.39	E. 1,629,661.44
NAD'83 GEO.	LAT-(N) 39.770057	LONG-(W) 80.705504
NAD'83 UTM (M)	N. 4,402,277.77	E. 525,222.23
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 464,658.2	E. 1,628,228.1
NAD'83 GEO.	LAT-(N) 39.769430	LONG-(W) 80.710593
NAD'83 UTM (M)	N. 4,402,206.8	E. 524,786.6
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 460,318.1	E. 1,630,650.2
NAD'83 GEO.	LAT-(N) 39.757605	LONG-(W) 80.701770
NAD'83 UTM (M)	N. 4,400,896.8	E. 525,546.6

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

7,872' T.H.

12,407' B.H.

REFERENCES



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-12.1	ROBERT T. & BARBARA A. ANKROM	2.632
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	23.428
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.
9-14-37	MARGARET FOX - LIFE	LOT
9-14-38	MARGARET FOX - LIFE	0.631
9-14-40	MARGARET FOX - LIFE	19,560 SQ. FT.
9-14-41	MARGARET FOX - LIFE	9163 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
9-16-12.1	JAMES G. RICHMOND, ET UX	0.691
9-16-12.2	SPENCER J. & CARRIE A. RICHMOND	0.575
9-16-12.3	JAMES G. RICHMOND, ET UX	0.937
9-16-12.4	SHEILA TRUJAX, ET VIR.	0.516
9-16-12.5	TIMOTHY S. & GRETCHEN M. KIDD	1.23
9-16-12.6	SPENCER J. & CARRIE A. RICHMOND	0.141
9-16-12.7	SPENCER J. & CARRIE A. RICHMOND	0.55
9-16-12.8	IVAN H. & MARGARET A. RICHMOND	0.85
9-16-13.2	ELEANOR M. FOX ESTATE	1.570
9-16-13.3	PAUL R. BLAKE	0.7538
9-16-13.4	JOHN FOX	0.533
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
9-16-16	CLINTON B. WHITELATCH, SR., ET UX ESTS	1 AC. 5 6/10 POLES
9-16-17	ELEANOR M. FOX ESTATE	0.741
9-16-18.1	ROBIN D. & DAVID G. STEWART	3.333

NOTES ON SURVEY

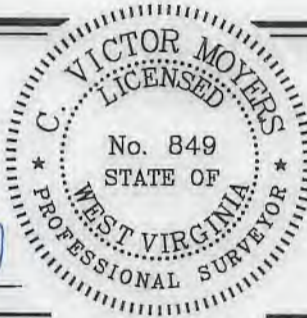
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- SEE REFERENCES FOR DWELLINGS LOCATED WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPD MARK SCALE IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-6634
www.slsurveys.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 JULY 27, 20 18
 REVISED SEPTEMBER 30, 20 19
 OPERATORS WELL NO. KNOB CREEK S-6HM
 API WELL NO. 47 - 051 - 02281
 STATE WV COUNTY MARSHALL PERMIT HGA

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P6HMR.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'
KNOB CREEK S-6HM REV5

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: GROUND = 729.10' PROPOSED = 734.67' WATERSHED FISH CREEK (HUC 10)
 DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

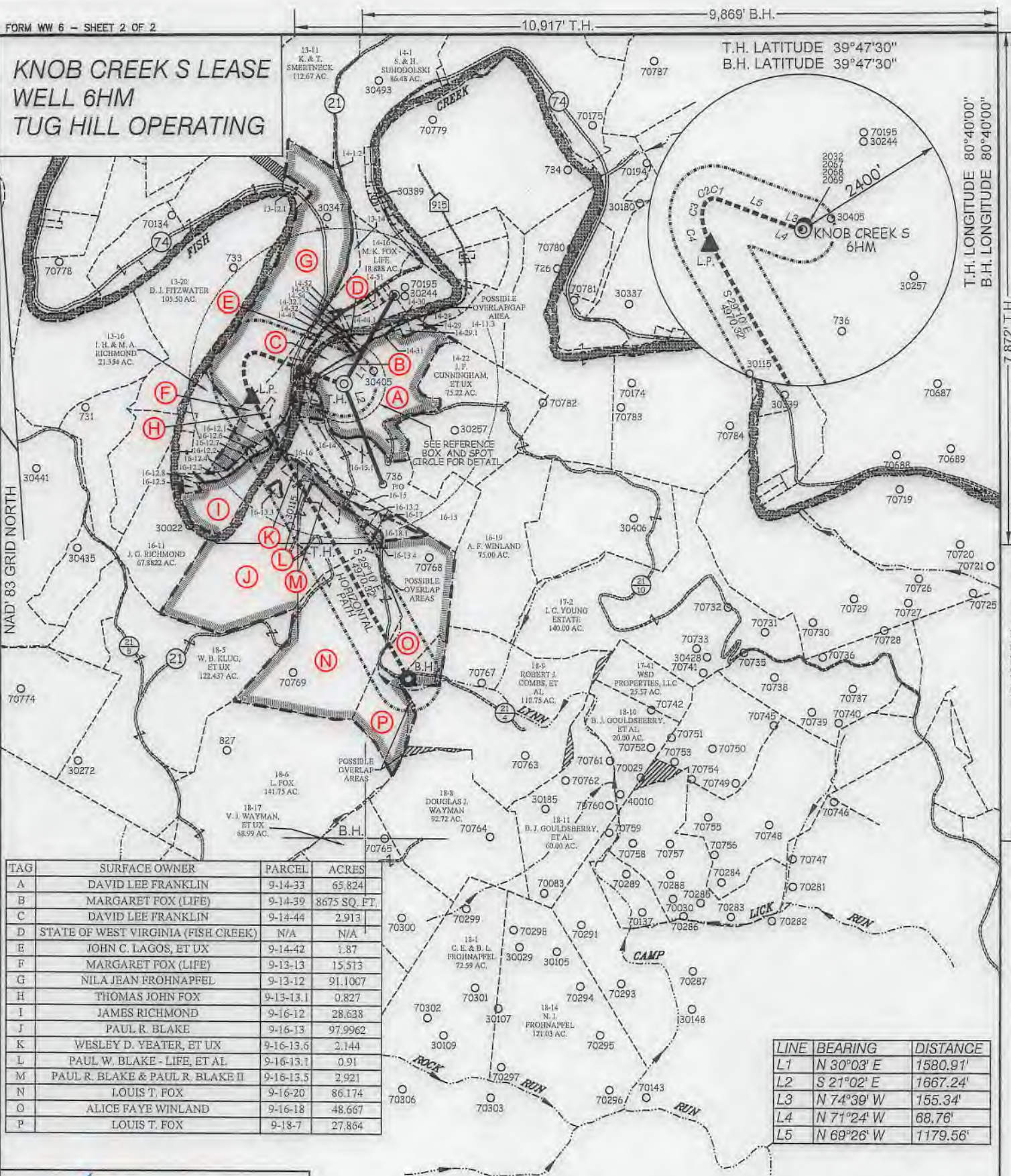
SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±
 ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-6A1 ACREAGE 65.824±
 PROPOSED WORK: LEASE NO. SEE WW-6A1
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD: 6,343' / TMD: 12,011'

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 6HM
TUG HILL OPERATING**



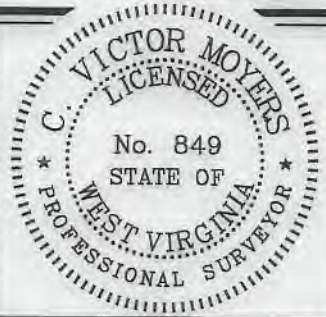
TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	MARGARET FOX (LIFE)	9-14-39	8675 SQ. FT.
C	DAVID LEE FRANKLIN	9-14-44	2.913
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	JOHN C. LAGOS, ET UX	9-14-42	1.87
F	MARGARET FOX (LIFE)	9-13-13	15.513
G	NILA JEAN FROHNAPFEL	9-13-12	91.1007
H	THOMAS JOHN FOX	9-13-13.1	0.827
I	JAMES RICHMOND	9-16-12	28.638
J	PAUL R. BLAKE	9-16-13	97.9962
K	WESLEY D. YEATER, ET UX	9-16-13.6	2.144
L	PAUL W. BLAKE - LIFE, ET AL	9-16-13.1	0.91
M	PAUL R. BLAKE & PAUL R. BLAKE II	9-16-13.5	2.921
N	LOUIS T. FOX	9-16-20	86.174
O	ALICE FAYE WINLAND	9-16-18	48.667
P	LOUIS T. FOX	9-18-7	27.854

LINE	BEARING	DISTANCE
L1	N 30°03' E	1580.91'
L2	S 21°02' E	1667.24'
L3	N 74°39' W	155.34'
L4	N 71°24' W	68.76'
L5	N 69°26' W	1179.56'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	52.67'	233.94'	N 79°58' W	52.55'
C2	186.79'	155.92'	S 59°33' W	175.82'
C3	211.87'	423.68'	S 09°58' W	209.67'
C4	423.07'	924.63'	S 17°25' E	419.39'

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhook Drive • Glenville, WV 26031 • (304) 462-5834
www.slsurveys.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 464,867.39 E. 1,629,661.44
 NAD'83 GEO. LAT-(N) 39.770057 LONG-(W) 80.705504
 NAD'83 UTM (M) N. 4,402,277.77 E. 525,222.23
LANDING POINT
 NAD'83 S.P.C.(FT) N. 464,658.2 E. 1,628,228.1
 NAD'83 GEO. LAT-(N) 39.769430 LONG-(W) 80.710593
 NAD'83 UTM (M) N. 4,402,206.8 E. 524,786.6
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 460,318.1 E. 1,630,650.2
 NAD'83 GEO. LAT-(N) 39.757605 LONG-(W) 80.701770
 NAD'83 UTM (M) N. 4,400,896.8 E. 525,546.6



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 P.S. 849 *C. Victor Moyers*

SCALE 1" = 2000' FILE NO. 8789P6HMR.dwg
 DATE JULY 27, 2018
 REVISED SEPTEMBER 30, 2019
 OPERATORS WELL NO. KNOB CREEK S-6HM
 API WELL NO. 47-51-02281
 STATE COUNTY PERMIT

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

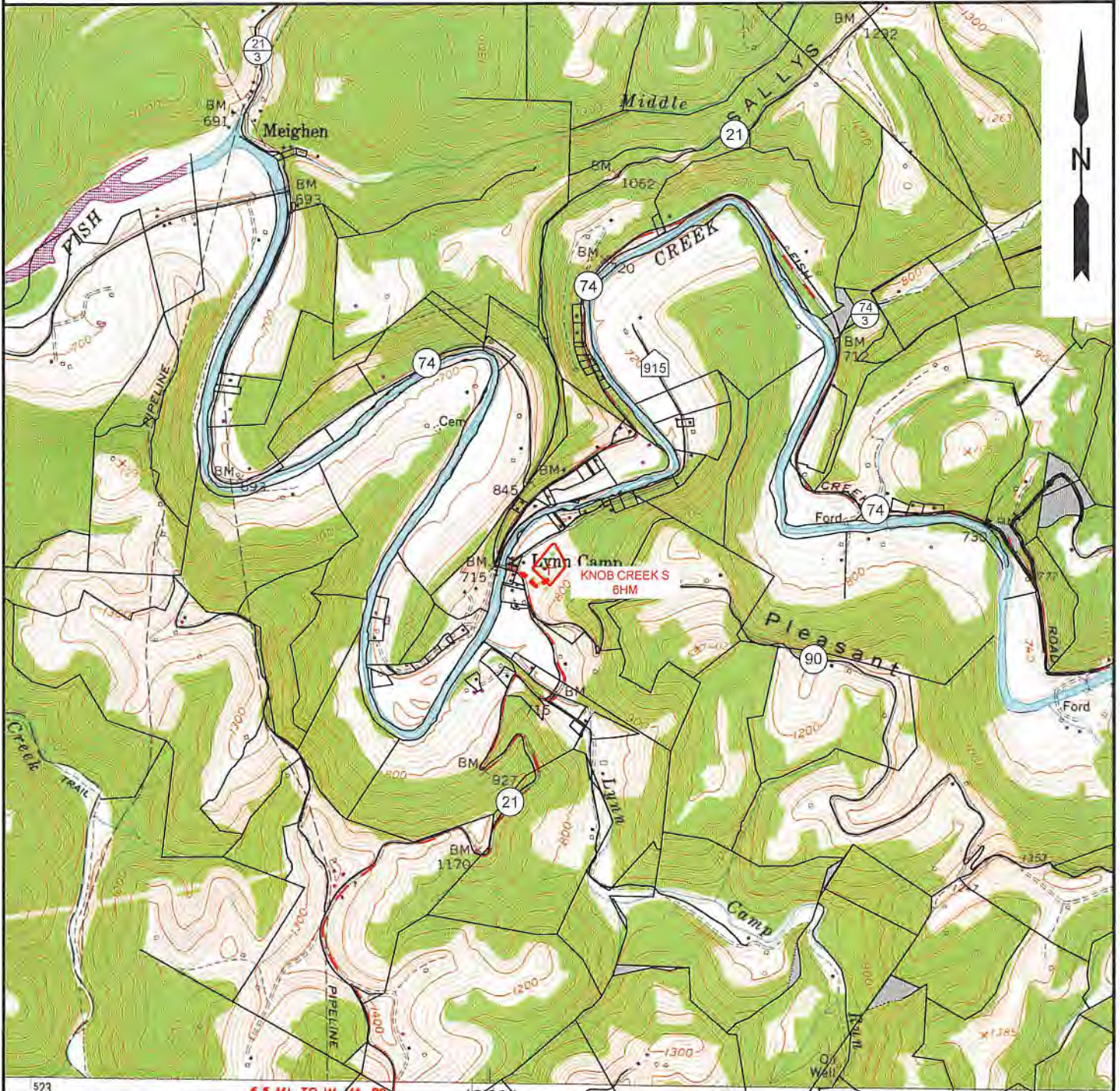
LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- 500' 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)

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

PROPOSED KNOB CREEK S - 6HM

4705102281



NOTE: CLOSEST WATER PURVEYOR
 GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT
 PROCTOR, WV

LAT: 39.7137712
 LON: -80.8258327
 LOCATED: S 59°36'12" W AT 39,574.55' FROM THE CENTER OF KNOB CREEK S WELL PAD LOCATION.

SLS
 Land & Energy Development
 Solutions from the ground up.
 P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26035 • (304) 482-9034
 www.slssurveys.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
		SUITE 200	
		CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8789	07/27/2018	1" = 2000'

TUG HILL
 OPERATING