

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

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

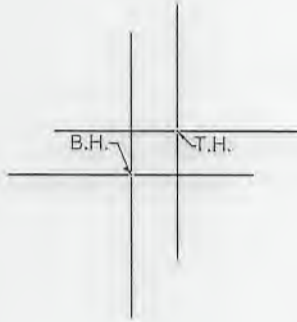
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 464,876.65	E. 1,629,669.08
NAD'83 GEO.	LAT-(N) 39.770083	LONG-(W) 80.705477
NAD'83 UTM (M)	N. 4,402,280.63	E. 525,224.51
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 465,006.7	E. 1,628,892.7
NAD'83 GEO.	LAT-(N) 39.770411	LONG-(W) 80.708245
NAD'83 UTM (M)	N. 4,402,316.3	E. 524,987.3
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 464,433.1	E. 1,629,179.9
NAD'83 GEO.	LAT-(N) 39.768847	LONG-(W) 80.707196
NAD'83 UTM (M)	N. 4,402,143.0	E. 525,077.8

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-16-13.2	ELEANOR M. FOX EST.	1.370
9-16-17	ELEANOR M. FOX EST.	0.741
9-16-18.1	ROBIN D. & DAVID G. STEWART	3.333
9-16-14	LYNN CAMP METHODIST CHURCH	0.762

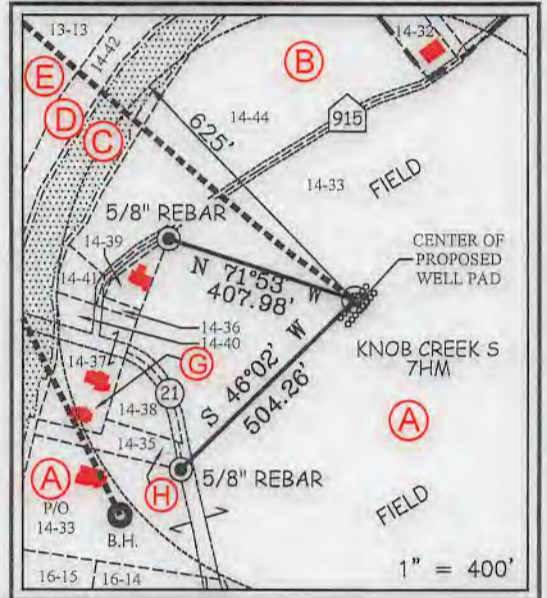
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-12.1	ROBERT T. & BARBARA A. ANKROM	2.632
9-13-13.1	THOMAS JOHN FOX	0.827
9-13-14	MARGARET K. FOX - LIFE	3.00
9-14-1.2	KENNETH N. & TERESA A. SMERTNECK	1.02
9-14-11.3	PATRICK J. SCHELLHASE - TRUST	23.424
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-29	ANDREW PASOULETOS, ET UX	0.209
9-14-29.1	ANDREW PASOULETOS, 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	0.631
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.
9-14-43	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



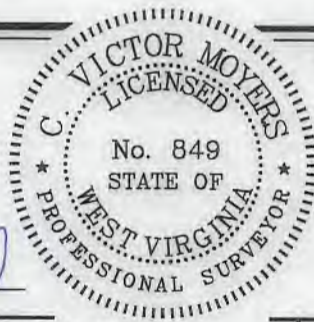
**NOTES ON SURVEY**

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**



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



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

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P7HMR.dwg  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'  
 KNOB CREEK S-7HM REV4

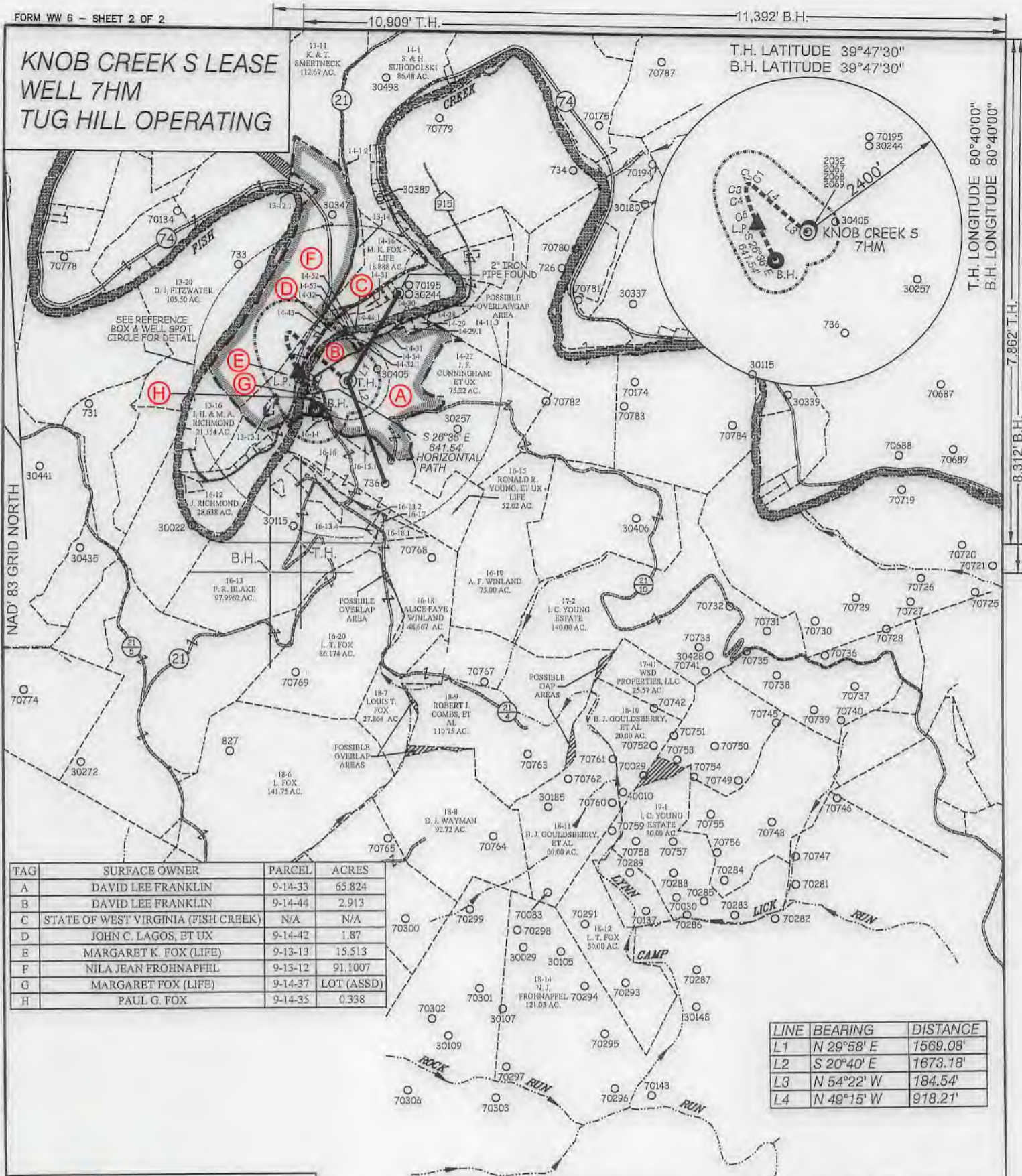
STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: GROUND = 728.20' ELEVATION 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: 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: 7,464'

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**

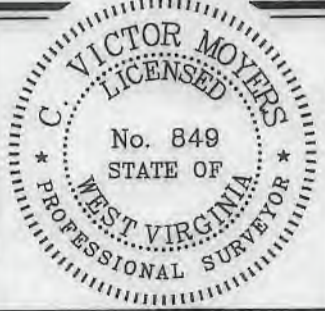


TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	DAVID LEE FRANKLIN	9-14-44	2.913
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	JOHN C. LAGOS, ET UX	9-14-42	1.87
E	MARGARET K. FOX (LIFE)	9-13-13	15.513
F	NILA JEAN FROHNAPFEL	9-13-12	91.1007
G	MARGARET FOX (LIFE)	9-14-37	LOT (ASSD)
H	PAUL G. FOX	9-14-35	0.338

LINE	BEARING	DISTANCE
L1	N 29°58' E	1569.08'
L2	S 20°40' E	1673.18'
L3	N 54°22' W	184.54'
L4	N 49°15' W	918.21'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	70.18'	147.78'	N 60°41' W	69.52'
C2	56.42'	35.32'	S 57°25' W	50.61'
C3	117.98'	264.50'	S 00°42' E	117.00'
C4	335.95'	1456.97'	S 17°50' E	335.21'
C5	162.57'	2687.61'	S 24°54' E	162.54'

**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5834  
www.slsurveys.com



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

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**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)

SCALE 1" = 2000' FILE NO. 8789P7HMR.dwg  
 DATE JULY 27, 2018  
 REVISED SEPTEMBER 30, 2019  
 OPERATORS WELL NO. KNOB CREEK S-7HM  
 API WELL NO. 47-51-02282  
 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

NAD'83 GRID NORTH

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

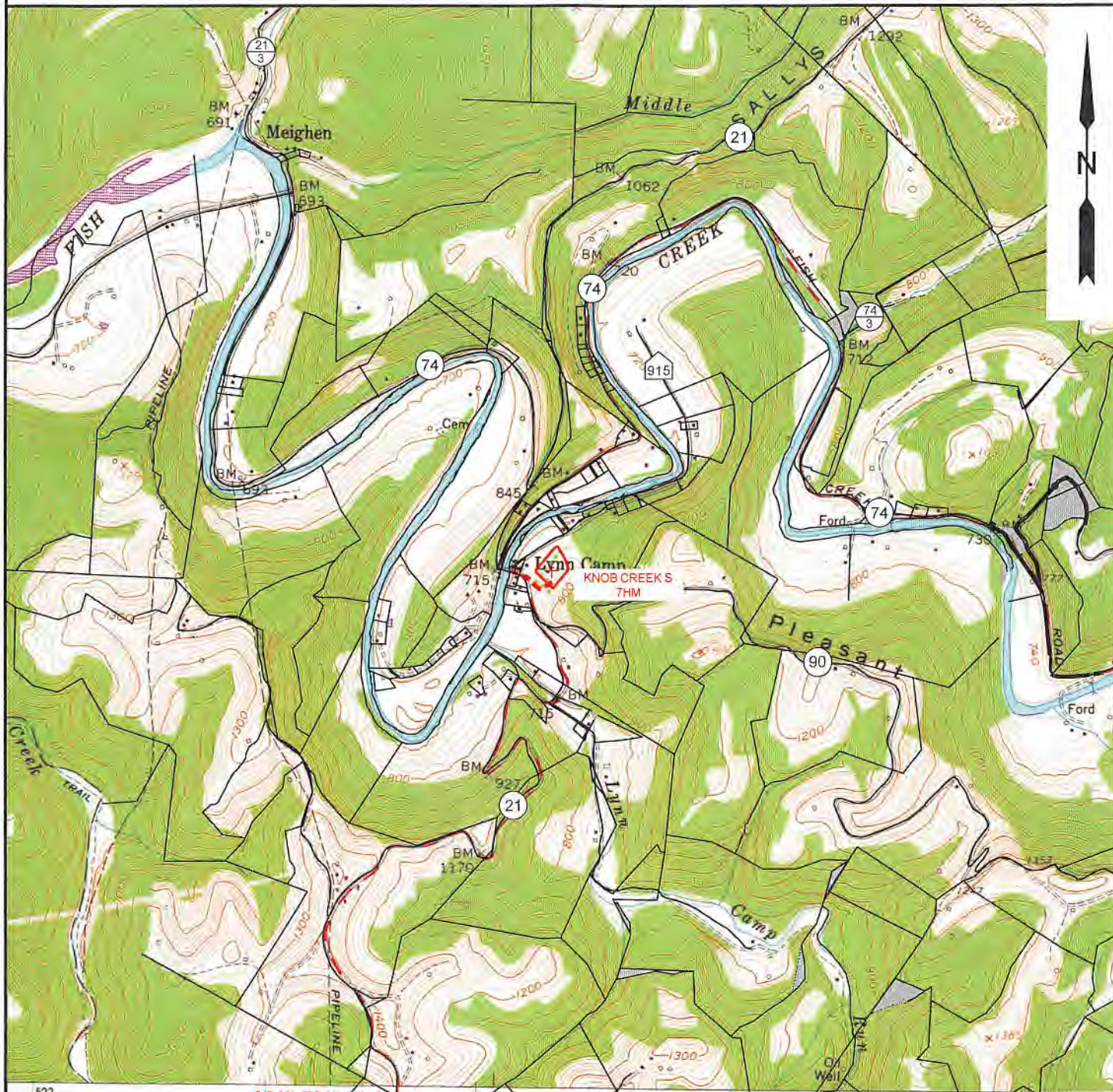
7,862' T.H.  
 8,312' B.H.

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

10,909' T.H.

11,392' B.H.

# PROPOSED KNOB CREEK S - 7HM



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.

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www.slssurveys.com

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

**TUG HILL**  
OPERATING