

**KNOB CREEK S LEASE
WELL 9HM
TUG HILL OPERATING**

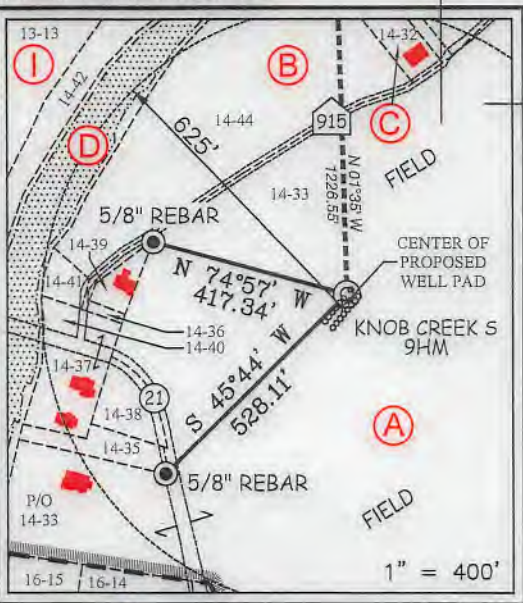
T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°47'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 464,895.15	E. 1,629,684.36
NAD'83 GEO.	LAT-(N) 39.770134	LONG-(W) 80.705424
NAD'83 UTM (M)	N. 4,402,286.35	E. 525,229.07
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 465,812.6	E. 1,630,160.5
NAD'83 GEO.	LAT-(N) 39.772670	LONG-(W) 80.703774
NAD'83 UTM (M)	N. 4,402,568.3	E. 525,369.5
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 463,603.5	E. 1,631,393.1
NAD'83 GEO.	LAT-(N) 39.766651	LONG-(W) 80.699284
NAD'83 UTM (M)	N. 4,401,901.5	E. 525,756.2

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"
7,843' T.H.
9,112' B.H.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-13.1	THOMAS JOHN FOX	0.827
9-13-14	MARGARET K. FOX - LIFE	3.00
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
9-14-32.1	TWILA C. COFFIELD	0.184
9-14-33	PAUL G. FOX	0.338
9-14-36	MARGARET FOX - LIFE	1600 SQ. FT.
9-14-37	MARGARET FOX - LIFE	LOT (ASSD)
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
9-14-45	GEORGE R. TAYLOR, ET UX	4.423
9-14-46.1	MARTHA JANE FAZZARO	1.512
9-14-47	MICHAEL L. & CHERYL J. ACREE	0.255
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
9-14-53	JAMES E. PEELMAN	0.555
9-14-54	RICHARD L. HARVETH, ET UX	1.649
9-16-13.2	ELEANOR M. FOX EST.	1.570
9-16-13.4	JOHN FOX	0.533
9-16-14	LYNN CAMP METHODIST CHURCH	0.762
9-16-15.1	ERIC J. YOUNG	1.98
9-16-16	CLINTON B. WHITELATCH, SR., ET UX ESTS	1 AC, 5 6/10 PO.
9-16-17	ELEANOR M. FOX EST.	0.741
9-16-18.1	ROBIN D. & DAVID G. STEWART	3.333

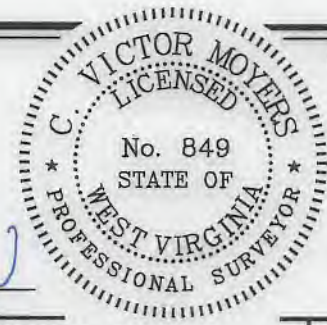
REFERENCES



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 525' 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 SEPTEMBER 30, 20 19
 OPERATORS WELL NO. KNOB CREEK S-9HM
 API WELL NO. 47 051 02285
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P9HMR.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'
 KNOB CREEK S-9HM REV4

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

WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 727.10' 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±

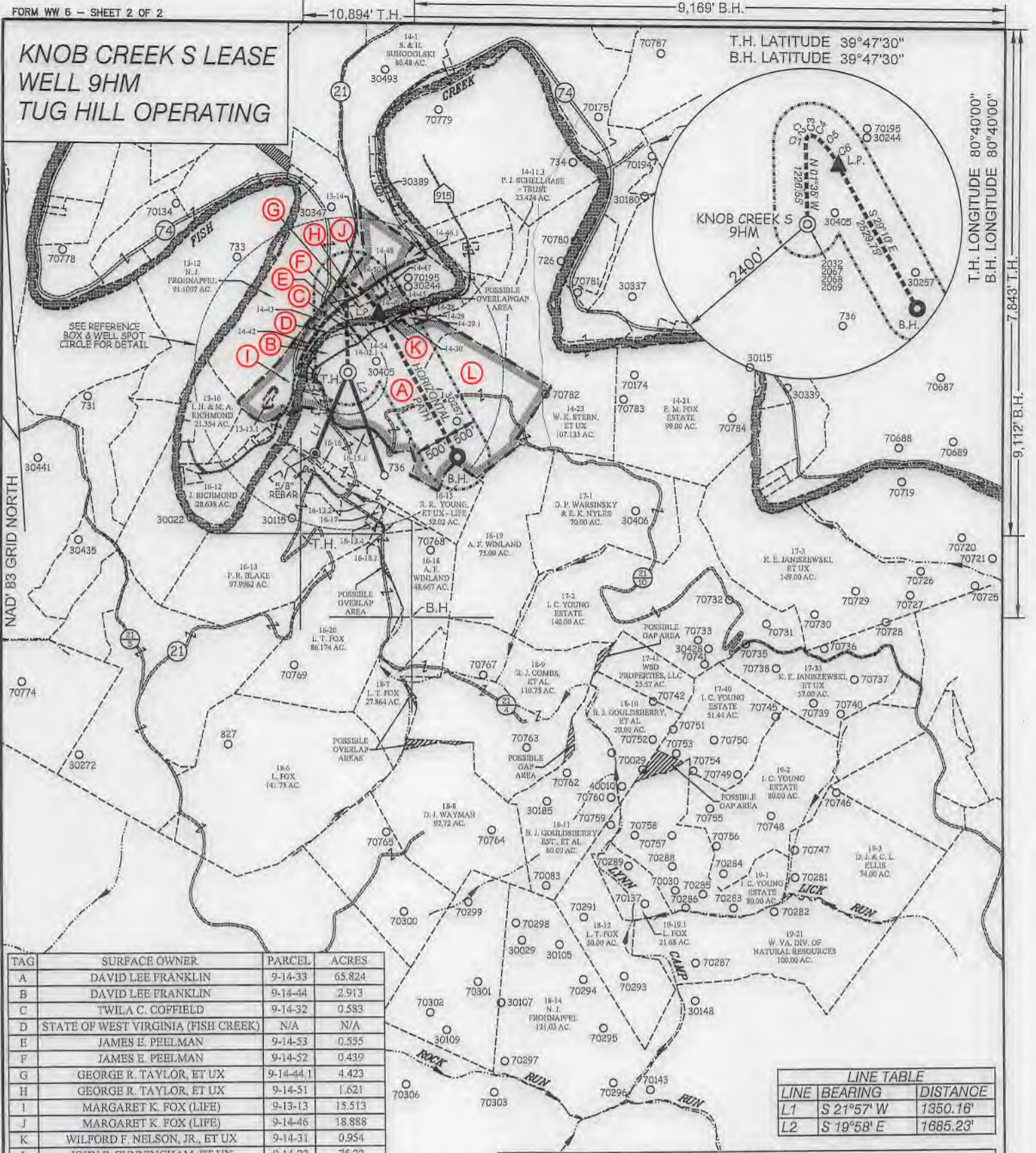
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD: 6,360' / TMD: 9,467'

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 9HM
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	WILA C. COFFIELD	9-14-32	0.583
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	JAMES E. PEELMAN	9-14-53	0.555
F	JAMES E. PEELMAN	9-14-52	0.439
G	GEORGE R. TAYLOR, ET UX	9-14-44.1	4.423
H	GEORGE R. TAYLOR, ET UX	9-14-51	1.621
I	MARGARET K. FOX (LIFE)	9-13-13	15.513
J	MARGARET K. FOX (LIFE)	9-14-46	18.888
K	WILFORD F. NELSON, JR., ET UX	9-14-31	0.954
L	JOHN F. CUNNINGHAM, ET UX	9-14-22	75.22

LINE	BEARING	DISTANCE
L1	S 21°57' W	1350.16'
L2	S 19°58' E	1685.23'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	88.22'	269.20'	N 06°54' E	87.82'
C2	63.06'	78.52'	N 40°14' E	61.38'
C3	47.86'	89.29'	N 86°14' E	47.28'
C4	91.48'	249.11'	S 64°44' E	90.97'
C5	252.06'	896.84'	S 45°18' E	251.23'
C6	275.94'	1797.75'	S 33°22' E	275.67'

SLS
Land & Energy Development
Solutions from the ground up.
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www.slsww.com

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 API WELL NO. _____
 NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
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 OFFICE OF OIL AND GAS

LEGEND

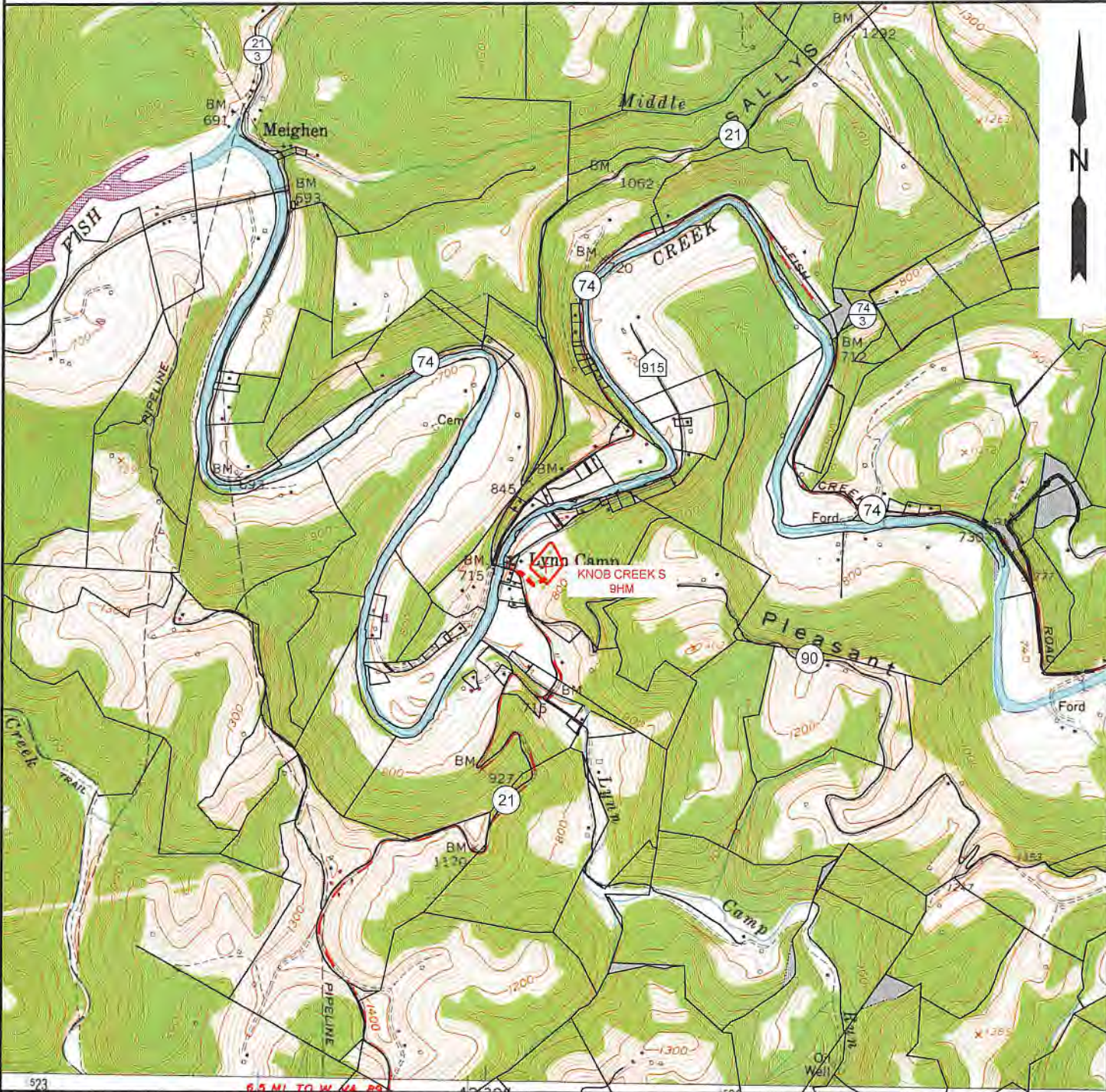
- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

COUNTY NAME PERMIT

WELL OPERATOR TUG HILL OPERATING, LLC
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
 FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 5400 D BIG TYLER ROAD
 CHARLESTON, WV 25313

PROPOSED KNOB CREEK S - 9HM



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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Solutions from the ground up.
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 www.slsurveys.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