

**KNOB CREEK N LEASE  
UTICA UNIT - 599.24 AC ±  
WELL 13HU  
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. 464,854.03	E. 1,629,677.64
NAD'83 GEO.	LAT-(N) 39.770021	LONG-(W) 80.705446
NAD'83 UTM (M)	N. 4,402,273.78	E. 525,227.23
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 465,175.1	E. 1,631,361.9
NAD'83 GEO.	LAT-(N) 39.770964	LONG-(W) 80.699469
NAD'83 UTM (M)	N. 4,402,380.2	E. 525,738.7
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 470,399.3	E. 1,628,406.2
NAD'83 GEO.	LAT-(N) 39.785180	LONG-(W) 80.710234
NAD'83 UTM (M)	N. 4,403,954.9	E. 524,811.7

T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°42'30"  
T.H. 7,885'  
B.H. 2,363'

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-11-1	GERALD F. PADLOW	1.033
9-13-10	ARTHUR L. MOORE	3.96
9-13-13.1	THOMAS JOHN FOX	0.827
9-14-2	MICHAEL L. ALVAREZ	0.75
9-14-35	PAUL G. FOX	0.338
9-14-37	MARGARET FOX - LIFE	LOT
9-14-40	MARGARET FOX - LIFE	19,560 SQ. FT.
9-14-41	MARGARET FOX - LIFE	9165 SQ. FT.
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

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	JOHN F. GUNNINGHAM, ET UX	9-14-22	75.22
C	WILLIAM C. GROFT, ET UX	9-14-30	0.35
D	MARGARET K. FOX (LIFE)	9-14-38	0.631
E	MARGARET K. FOX (LIFE)	9-14-36	1600 SQ. FT.
F	MARGARET K. FOX (LIFE)	9-14-39	8875 SQ. FT.
G	DAVID LEE FRANKLIN	9-14-44	2.913
H	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
I	JOHN C. LAGOS, ET UX	9-14-42	1.87
J	PATRICK J. SCHELLHASE TRUST	9-14-11.3	23.424
K	CHARLES R. SHELLHASE, ET UX	9-14-28	3.029
L	ANDREW FASCOULETOS, ET UX	9-14-29	0.209
M	PATRICK J. SCHELLHASE	9-14-27	3.004
N	ANDREW FASCOULETOS, ET UX	9-14-29.1	1.171
O	TWILA C. COPFIELD	9-14-32	0.383
P	JAMES G. FOX	9-14-43	0.66
Q	TWILA C. COPFIELD	9-14-32.1	0.184
R	MARGARET K. FOX (LIFE)	9-13-13	15.513
S	JAMES E. PEELMAN	9-14-53	0.555
T	JAMES E. PEELMAN	9-14-52	0.439
U	RICHARD L. HARVETH, ET UX	9-14-54	1.649
V	GEORGE R. TAYLOR, ET UX	9-14-44.1	4.423
W	WILFORD F. NELSON, JR., ET UX	9-14-51	0.954
X	MARGARET K. FOX (LIFE)	9-14-46	18.888
Y	RONALD MARSH	9-14-50	0.707
Z	MICHAEL L. & CHERYL J. ACREE	9-14-47	0.353
AA	GEORGE R. TAYLOR, ET UX	9-14-45	10.98
BB	MARSHA JANE FAZZARO	9-14-46.1	1.512
CC	GEORGE R. TAYLOR, ET UX	9-14-51	1.621
DD	NILA JEAN FROHNAPFEL	9-13-12	91.1007
EE	MARGARET K. FOX (LIFE)	9-13-14	3.00
FF	DANIEL JAY FITZWATER	9-13-20	105.5
GG	ROBERT I. DUFFEY - LIFE	9-14-10	29/100 AC.
HH	MICHAEL L. & CHERYL J. ACREE	9-14-48	0.473
II	LOYE A. BLAKE, JR.	9-14-11.2	4.00
JJ	MICHAEL L. & CHERYL J. ACREE	9-14-49	0.118
KK	JOHN T. ERAZMUS, III	9-14-7	0.25
LL	JOHN E. DUFFEY, ET UX	9-14-9	2/5 AC.
MM	JOHNNY C. HOLCOMB & JOHNNY C. HOLCOMB, II	9-14-8	2/5 AC.
NN	HOY GLENN CROW	9-14-11	141.559
OO	MICHAEL L. ALVAREZ	9-14-6	120' X 200'
PP	MICHAEL L. ALVAREZ	9-14-5	200' X 60'
QQ	MICHAEL L. ALVAREZ	9-14-4	3 PCLS & 1/8 AC.
RR	SAMUEL & HEATHER SUHODOLKI	9-14-1	86.48
SS	ROBERT T. & BARBARA A. ANKROM	9-13-12.1	2.632
TT	ELEANOR M. FOX EST.	9-13-18	30.00
UU	KENNETH N. & TERESA A. SMERTNECK	9-13-11	112.67
VV	MICHAEL L. ALVAREZ	9-14-1.1	1.6
WW	MICHAEL L. ALVAREZ	9-14-3	N PT PCLS 3-4.5
XX	KENNETH N. & TERESA A. SMERTNECK	9-14-1.2	1.02
YY	SAMUEL & HEATHER SUHODOLKI	9-13-11.1	0.49
ZZ	MARGARET K. FOX (LIFE)	9-11-2	84.378
A0	KENNETH P. GATEWOOD, ET UX	9-11-2.1	0.308
A1	GERALD PADLOW, ET UX	9-11-2.2	0.291
A2	RAY A. WHETZEL, JR., ET AL.	9-10-13	71.119
A3	WILLIAM MCCONNELL	9-10-14	15.00
A4	J. F. CROW ESTATE, ET AL.	9-10-9	17 AC. 14 P.
A5	J. F. CROW ESTATE, ET AL.	9-10-11	60.00
A6	JOSEPH MICHAEL BONENE	9-10-15	44.00
A7	DAVID & PAMELA SCHIMMEL	9-10-7	1.00
A8	BRENT ALLEN CONNER	9-10-8	2.00
A9	KENNETH W. MASON EST.	9-10-6	43.00
B0	RONALD KEITH & RUBY MASON	9-6-12	59.00
B1	KENNETH W. MASON EST.	9-10-5	51.62
B2	KENNETH W. MASON EST.	9-6-14	19.37
B3	J. F. CROW ESTATE, ET AL.	9-6-15	55.23
B4	JANE RICHARDSON HEIRS, ET AL.	9-6-16	23.05
B5	ROBERT LEE CARNEY, ET UX	9-6-4	118.17

**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 825' OF THE CENTER OF PROPOSED WELL PAD.
- SEE REFERENCES FOR DWELLINGS LOCATED WITHIN 625' 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.
- PROPOSED LATERAL OR TOP HOLE OF KNOB CREEK N-13HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF EXISTING WELLS PROPOSED KNOB CREEK N-11HU, PROPOSED KNOB CREEK N-12HU, PROPOSED KNOB CREEK S-14HU, PROPOSED KNOB CREEK S-15HU, PROPOSED KNOB CREEK S-16HU, HEAVEN HILL 2W-12HU (47-051-01952), HEAVEN HILL 2W-13HU (47-051-01957), HEAVEN HILL 2-8HU (47-051-01912), KEITH STERN N-14HU (47-051-02252), KEITH STERN N-15HU (47-051-02241), KEITH STERN N-16HU (47-051-02242), KEITH STERN S-18HU (47-051-02243), KEITH STERN S-19HU (47-051-02244), PROPOSED KEITH STERN N-13HU, PROPOSED KEITH STERN S-17HU.



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 SEPTEMBER 3, 20 19  
REVISED OCTOBER 14, 2019  
OPERATORS WELL NO. KNOB CREEK N-13HU  
API WELL NO. 47-051-02269  
STATE            COUNTY            PERMIT           

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P13HUR.dwg  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'  
KNOB CREEK N-13HU REV6

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

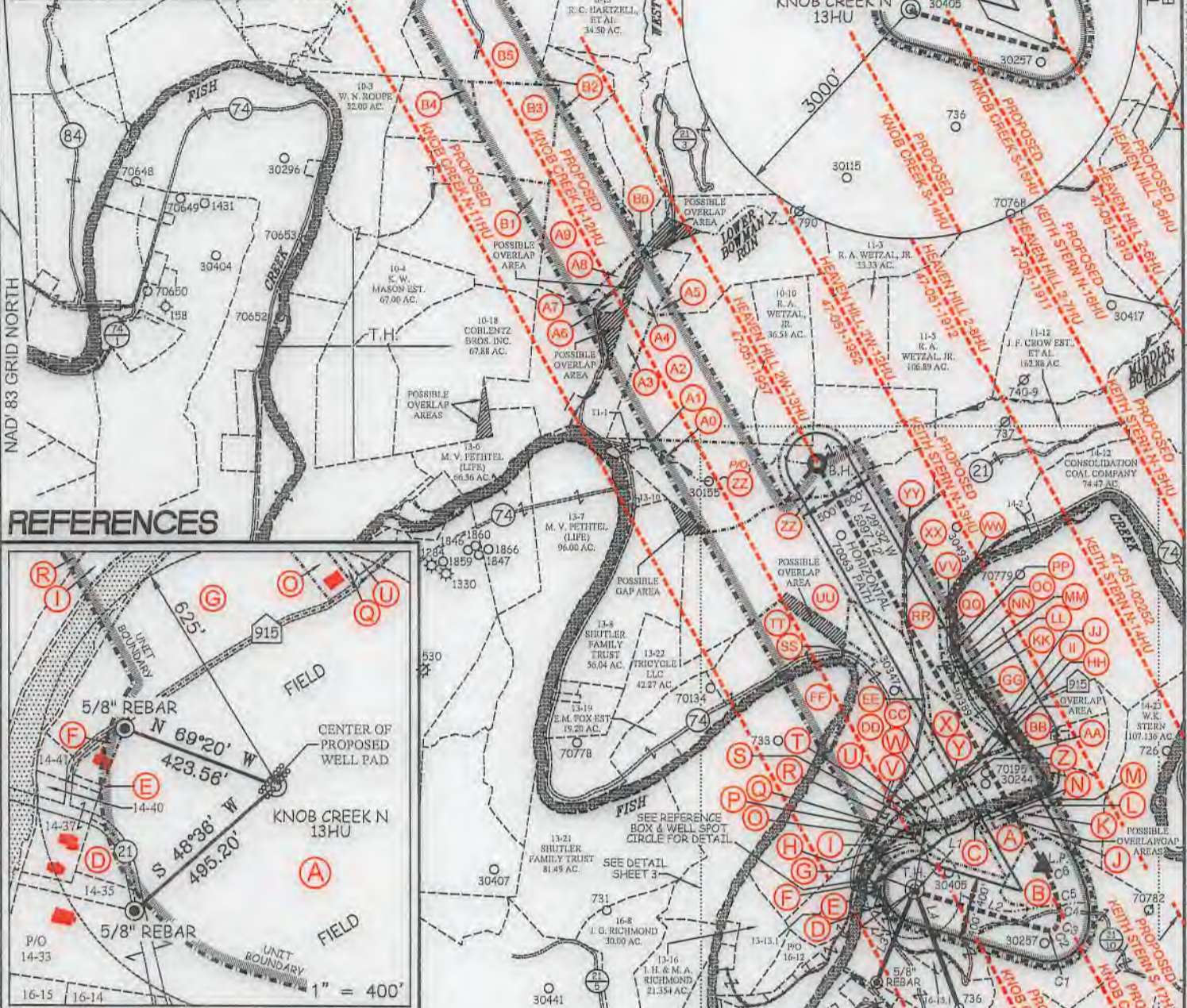
WELL TYPE:	OIL	GAS	<input checked="" type="checkbox"/> X	INJECTION	DISPOSAL	"GAS" PRODUCTION	<input checked="" type="checkbox"/> X	STORAGE	DEEP	<input checked="" type="checkbox"/> X	SHALLOW
LOCATION:	GROUND = 733.40'										
ELEVATION:	PROPOSED = 734.67'										
DISTRICT:	MEADE			COUNTY:	MARSHALL			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. <u>SEE WW-6A1</u>										
DRILL:	<input checked="" type="checkbox"/> X	CONVERT	DRILL DEEPER	REDRILL	FRACTURE OR STIMULATE	<input checked="" type="checkbox"/> X	PLUG OFF OLD FORMATION	PERFORATE NEW FORMATION	PLUG AND ABANDON	CLEAN OUT AND REPLUG	OTHER
PHYSICAL CHANGE IN WELL (SPECIFY)	TARGET FORMATION <u>POINT PLEASANT</u> ESTIMATED DEPTH <u>TVD: 11,332' / TMD: 18,012'</u>										

WELL OPERATOR	<u>TUG HILL OPERATING, LLC</u>	DESIGNATED AGENT	<u>DIANNA STAMPER</u>
ADDRESS	<u>1320 SOUTH UNIVERSITY DRIVE, SUITE 500</u>	ADDRESS	<u>5400 D BIG TYLER ROAD</u>
	<u>FORT WORTH, TX 76107</u>		<u>CHARLESTON, WV 25313</u>

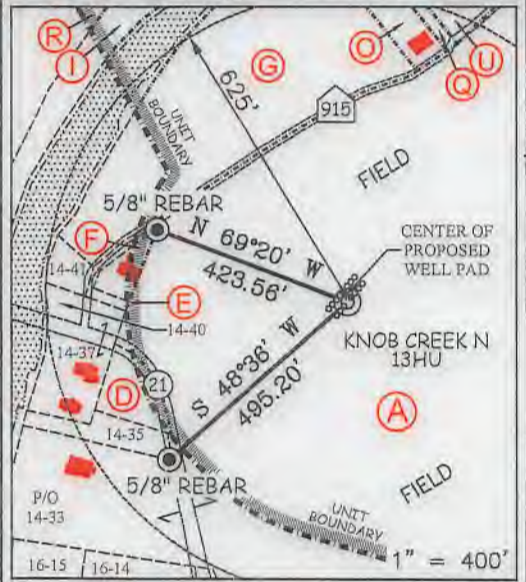
COUNTY NAME  
PERMIT

**Knob Creek N Lease  
Utica Unit - 599.24 AC ±  
Well 13HU  
Tug Hill Operating**

LINE	BEARING	DISTANCE
L1	S 44°03' E	57.59'
L2	S 73°44' E	1743.96'
L3	S 22°21' W	1309.53'
L4	S 20°40' E	1648.99'



**REFERENCES**



**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26031 • (304) 482-5534  
www.sls-wv.com

P.S. 849 *C. Victor Moyers*

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	85.73'	168.98'	S 87°00' E	84.81'
C2	66.38'	105.70'	N 57°21' E	65.29'
C3	126.81'	226.09'	N 19°15' E	125.16'
C4	186.57'	724.58'	N 03°30' W	186.06'
C5	202.54'	1269.12'	N 14°54' W	202.32'
C6	353.53'	2040.57'	N 24°41' W	353.09'

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**LEGEND**

UNIT BOUNDARY	
LEASED TRACTS INSIDE UNIT BOUNDARY	
SURFACE LINE	
PROPOSED UTICA	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 8789P13HUR.dwg  
KNOB CREEK N-13HU REV6  
DATE SEPTEMBER 3, 2019  
REVISED OCTOBER 14, 2019  
OPERATORS WELL NO. KNOB CREEK N-13HU  
API WELL NO. 47-051-02269  
STATE COUNTY PERMIT

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DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

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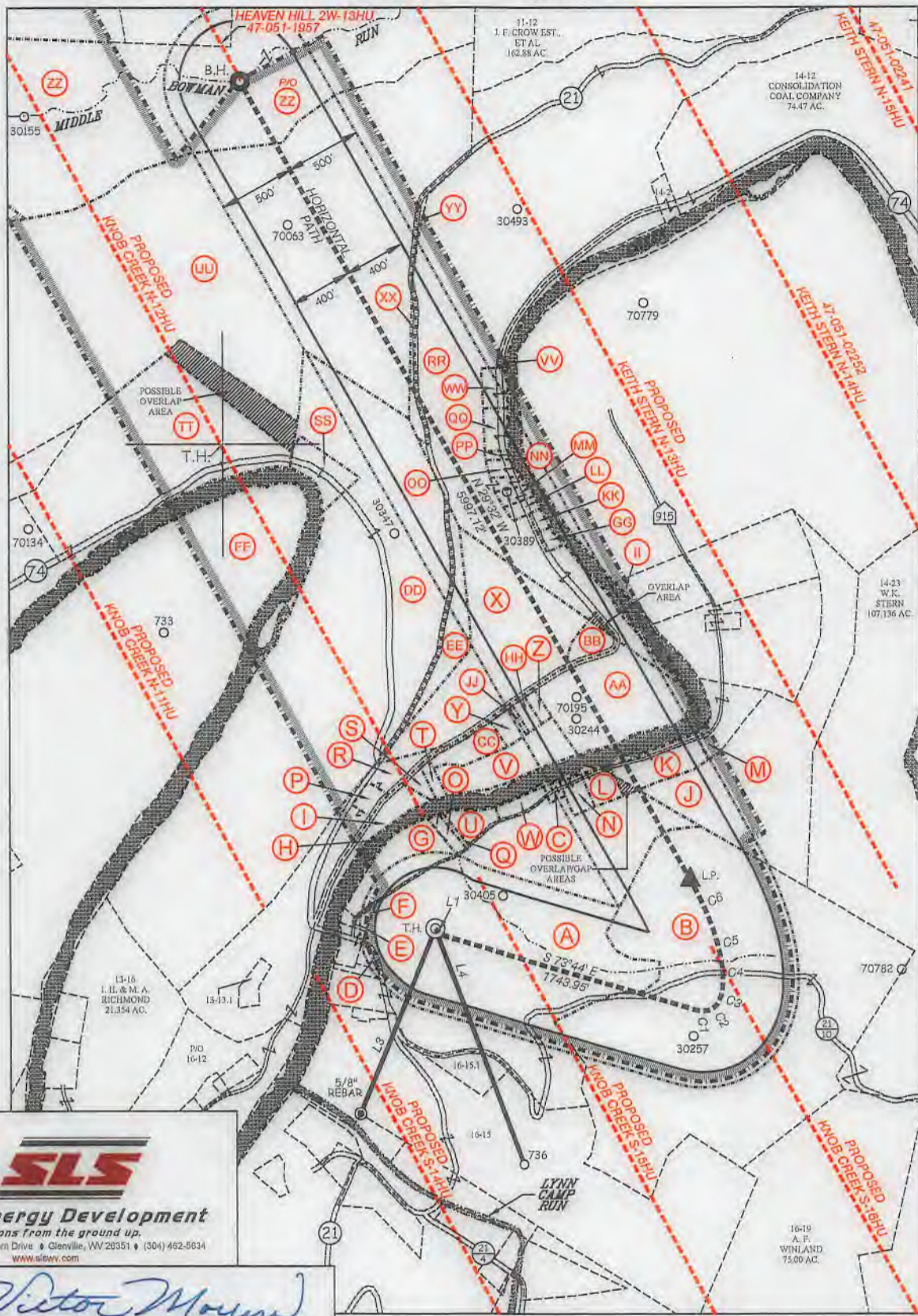
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**KNOB CREEK N LEASE  
UTICA UNIT - 599.24 AC ±  
WELL 13HU  
TUG HILL OPERATING**

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

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

**SHEET 3 DETAIL  
SCALE - 1" = 1,000'**



NAD'83 GRID NORTH

B.H.

7,885' T.H.

COUNTY NAME

PERMIT



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500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 8789P13HUR.dwg  
 DATE SEPTEMBER 3, 2019  
 REVISED OCTOBER 14, 2019  
 OPERATORS WELL NO. KNOB CREEK N-13HU  
 API WELL NO. 47-081-02269  
 NO. STATE COUNTY PERMIT

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



WELL OPERATOR TUG HILL OPERATING, LLC	DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107	ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

**KNOB CREEK N LEASE  
UTICA UNIT - 599.24 AC±  
WELL 13HU  
TUG HILL OPERATING**



NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*47051.219.1	A	9-14-33	DAVID LEE FRANKLIN	937	385
2	10*16479	B	9-14-22	JOHN F CUNNINGHAM AND BERNEICE K CUNNINGHAM	826	88
3	10*47051.219.1	C	9-14-30	DAVID LEE FRANKLIN	937	385
4	10*47051.243.1	D	9-14-38	MARY A FOX, ET AL	879	332
5	10*47051.219.1	E	9-14-36	DAVID LEE FRANKLIN	937	385
6	10*47051.219.1	F	9-14-39	DAVID LEE FRANKLIN	937	385
7	10*47051.219.1	G	9-14-44	DAVID LEE FRANKLIN	937	385
8	10*23458	H	FISH CREEK - WV	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	1019	373
9	10*19538	I	9-14-42	JOHN C LAGOS AND CYNTHIA M LAGOS, ET AL	936	531
10	10*23053	J	9-14-11.3	CE YOUNG	63	146
11	10*23053	K	9-14-28	CE YOUNG	63	146
12	10*22394	L	9-14-29	THE ANDREW & KAREN FASOULETOS 2017 IRREVOCABLE TRUST DATED SEPT 14 2017	964	513
13	10*23053	M	9-14-27	CE YOUNG	63	146
14	10*22394	N	9-14-29.1	THE ANDREW & KAREN FASOULETOS 2017 IRREVOCABLE TRUST DATED SEPT 14 2017	964	513
15	10*47051.219.1	O	9-14-32	DAVID LEE FRANKLIN	937	385
16	10*18732	P	9-14-43	SHERRILL M LEAVERS AND JAMES H LEAVERS, ET AL	938	245
17	10*47051.219.1	Q	9-14-32.1	DAVID LEE FRANKLIN	937	385
18	10*18732	R	9-13-13	SHERRILL M LEAVERS AND JAMES H LEAVERS, ET AL	938	245
19	10*19565	S	9-14-53	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
20	10*19565	T	9-14-52	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
21	10*15523	U	9-14-54	RICHARD L HARVETH AND SANDRA J HARVETH	729	638
22	10*19565	V	9-14-44.1	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
23	10*47051.219.1	W	9-14-31	DAVID LEE FRANKLIN	937	385
24	10*18298	X	9-14-46	MAUREEN GREGG, ET AL	929	273
25	10*19565	Y	9-14-50	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
26	10*19565	Z	9-14-47	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
27	10*19565	AA	9-14-45	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
28	10*18298	BB	9-14-46.1	MAUREEN GREGG, ET AL	929	273
29	10*19565	CC	9-14-51	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
30	10*24858	DD	9-13-12	NILA JEAN FROHNAPFEL	1028	119
31	10*47051.243.1	EE	9-13-14	MARY A FOX, ET AL	879	332
32	10*17193	FF	9-13-20	JOHN P. ICARD, ET AL	716	12
33	10*19621	GG	9-14-10	MARY RUTH FROHNAPFEL, ET AL	938	595
34	10*19565	HH	9-14-48	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
35	10*23053	II	9-14-11.2	CE YOUNG	63	146
36	10*19565	JJ	9-14-49	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947	566
37	10*19621	KK	9-14-7	MARY RUTH FROHNAPFEL, ET AL	938	595
38	10*19621	LL	9-14-9	MARY RUTH FROHNAPFEL, ET AL	938	595
39	10*19621	MM	9-14-8	MARY RUTH FROHNAPFEL, ET AL	938	595
40	10*23053	NN	9-14-11	CE YOUNG	63	146
41	10*19621	OO	9-14-6	MARY RUTH FROHNAPFEL, ET AL	938	595
42	10*19621	PP	9-14-5	MARY RUTH FROHNAPFEL, ET AL	938	595
43	10*19621	QQ	9-14-4	MARY RUTH FROHNAPFEL, ET AL	938	595
44	10*19621	RR	9-14-1	MARY RUTH FROHNAPFEL, ET AL	938	595
45	10*19942	SS	9-13-12.1	ROBERT T ANKROM & BARBARA A ANKROM	949	207
46	10*18351	TT	9-13-18	MARK ALLEN LENENBERG, ET AL	931	399
47	10*18265	UU	9-13-11	KENNETH NELSON SMERTNECK AND TERESA ANN SMERTNECK	933	103
48	10*19621	VV	9-14-1.1	MARY RUTH FROHNAPFEL, ET AL	938	595
49	10*19621	WW	9-14-3	MARY RUTH FROHNAPFEL, ET AL	938	595
50	10*19621	XX	9-14-1.2	MARY RUTH FROHNAPFEL, ET AL	938	595
51	10*18265	YY	9-13-11.1	KENNETH NELSON SMERTNECK AND TERESA ANN SMERTNECK	933	103
52	10*47051.243.1	ZZ	9-11-2	MARY A FOX, ET AL	879	332
53	10*47051.272.0	A0	9-11-2.1	KENNETH P GATEWOOD AND MARY M GATEWOOD	888	600
54	10*16526	A1	9-11-2.2	JUDITH PADLOW AKA JUDI L PADLOW	957	134
55	10*15567	A2	9-10-13	VICKIE MASON, ET AL	680	409
56	10*15600	A3	9-10-14	WILLIAM D MCCONNELL	715	447
57	10*15510	A4	9-10-9	ELAINE PHELPS ET VIR, ET AL	718	326
58	10*15510	A5	9-10-11	ELAINE PHELPS ET VIR, ET AL	718	326
59	10*47051.117.1	A6	9-10-15	JOSEPH MICHAEL BONENE	940	359
60	10*47051.117.1	A7	9-10-7	JOSEPH MICHAEL BONENE	940	359
61	10*47051.117.1	A8	9-10-8	JOSEPH MICHAEL BONENE	940	359
62	10*15504	A9	9-10-6	JAMES MASON ET AL	692	461
63	10*15525	B0	9-6-12	RONALD KEITH MASON ET UX, ET AL	772	445
64	10*15504	B1	9-10-5	JAMES MASON ET AL	692	461
65	10*15504	B2	9-6-14	JAMES MASON ET AL	692	461
66	10*15510	B3	9-6-15	ELAINE PHELPS ET VIR, ET AL	718	326
67	10*15464	B4	9-6-16	MARY ALICE THOMAS MELLOTT, ET AL	906	527
68	10*19116	B5	9-6-4	ROBERT LEE CARNEY AND BONNIE ANNE CARNEY	682	255

FILE NO. 8789P13HUR.dwg  
KNOB CREEK N-13HU REV6

DATE SEPTEMBER 3, 20 19

REVISED OCTOBER 14, 2019

OPERATORS WELL NO. KNOB CREEK N-13HU

API WELL NO. 47  
STATE COUNTY PERMIT



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



P.S. 849 *C. Victor Moyers*

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

COUNTY NAME PERMIT