

**Knob Creek N Lease
Utica Unit - 599.24 AC±
Well 12HU
Tug Hill Operating**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°50'00"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD'83 S.P.C.(FT) N. 464,863.27 E. 1,629,685.28
NAD'83 GEO. LAT-(N) 39.770467 LONG-(W) 80.705419
NAD'83 UTM (M) N. 4,402,276.64 E. 525,229.52
LANDING POINT
NAD'83 S.P.C.(FT) N. 465,600.0 E. 1,629,596.6
NAD'83 GEO. LAT-(N) 39.772066 LONG-(W) 80.705789
NAD'83 UTM (M) N. 4,402,500.6 E. 525,198.8
BOTTOM HOLE
NAD'83 S.P.C.(FT) N. 476,452.9 E. 1,623,655.0
NAD'83 GEO. LAT-(N) 39.801637 LONG-(W) 80.727434
NAD'83 UTM (M) N. 4,405,776.8 E. 523,333.4

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

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
9-14-33	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



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.
- 5. PROPOSED LATERAL OR TOP HOLE OF Knob Creek N-12HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OR EXISTING WELLS PROPOSED Knob Creek N-11HU, PROPOSED Knob Creek N-13HU, PROPOSED Knob Creek S-14HU, PROPOSED Knob Creek S-15HU, PROPOSED Knob Creek S-16HU, PROPOSED Keith Stern N-13HU, HEAVEN HILL 2W-12HU (47-051-01952), HEAVEN HILL 2W-13HU (47-051-01957).

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	0.031
E	MARGARET K. FOX (LIFE)	9-14-36	1600 SQ. FT.
F	MARGARET K. FOX (LIFE)	9-14-39	8675 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	33.424
K	CHARLES R. SHELLHASE, ET UX	9-14-28	3.029
L	ANDREW FASCULETOS, ET UX	9-14-29	0.209
M	PATRICK J. SCHELLHASE	9-14-27	3.004
N	ANDREW FASCULETOS, ET UX	9-14-29.1	1.171
O	TWILA C. COPFIELD	9-14-32	0.583
P	JAMES G. FOX	9-14-43	0.66
Q	TWILA C. COPFIELD	9-14-32.1	0.184
R	MARGARET K. FOX (LIFE)	9-13-15	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	9-14-31	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	0.355
AA	GEORGE R. TAYLOR, ET UX	9-14-45	10.98
BB	MARTHA 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	25/100 AC.
HH	MICHAEL L. & CHERYL J. ACREE	9-14-48	0.472
II	LOVE 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	84.978
A0	KENNETH F. GATEWOOD, ET UX	9-11-2.1	0.308
A1	GERALD PADLOW, ET UX	9-11-2.2	0.291
A2	RAY A. WHETZAL, 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

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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 AUGUST 21, 20 19
REVISED SEPTEMBER 18, 2019
OPERATORS WELL NO. Knob Creek N-12HU
API WELL NO. 47-051-0220846A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P12HUR-REV2.dwg
Knob Creek N-12HU REV2
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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 = 732.20' 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 POINT PLEASANT
ESTIMATED DEPTH TVD: 11,279' TMD: 23,890'

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
UTICA UNIT - 599.24 AC±
WELL 12HU
TUG HILL OPERATING**

LINE	BEARING	DISTANCE
L1	S 89°03' E	86.39'
L2	S 75°28' E	114.57'
L3	S 22°30' W	1320.99'
L4	S 20°18' E	1654.98'

4-17
M. MCGARDLE,
ET AL
65,791 AC

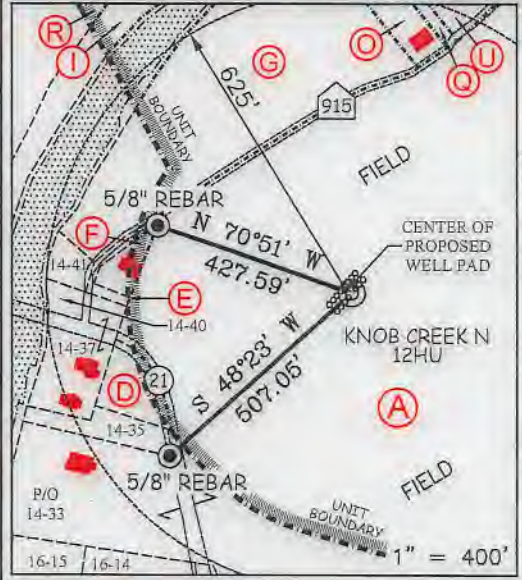
6-3
W. N. ROUPE
119.09 AC

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°50'00"

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

NAD'83 GRID NORTH

REFERENCES



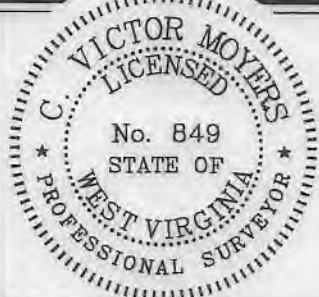
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SCALE 1" = 2000' FILE NO. 8789P12HUR-REV2.dwg
KNOB CREEK N-12HU REV2

DATE AUGUST 21, 2019
REVISED SEPTEMBER 18, 2019
OPERATORS WELL NO. KNOB CREEK N-12HU
API WELL NO. 47-051-02268 H6A
NO. STATE COUNTY PERMIT



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

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	10.16'	10.03'	N 76°40' E	9.73'
C2	12.75'	23.71'	N 22°37' E	12.59'
C3	34.85'	141.39'	N 02°29' W	34.76'
C4	79.29'	663.76'	N 13°19' W	79.24'
C5	148.79'	2213.68'	N 18°41' W	148.76'
C6	552.25'	3807.31'	N 24°57' W	551.77'

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

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)

COUNTY NAME
PERMIT

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ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

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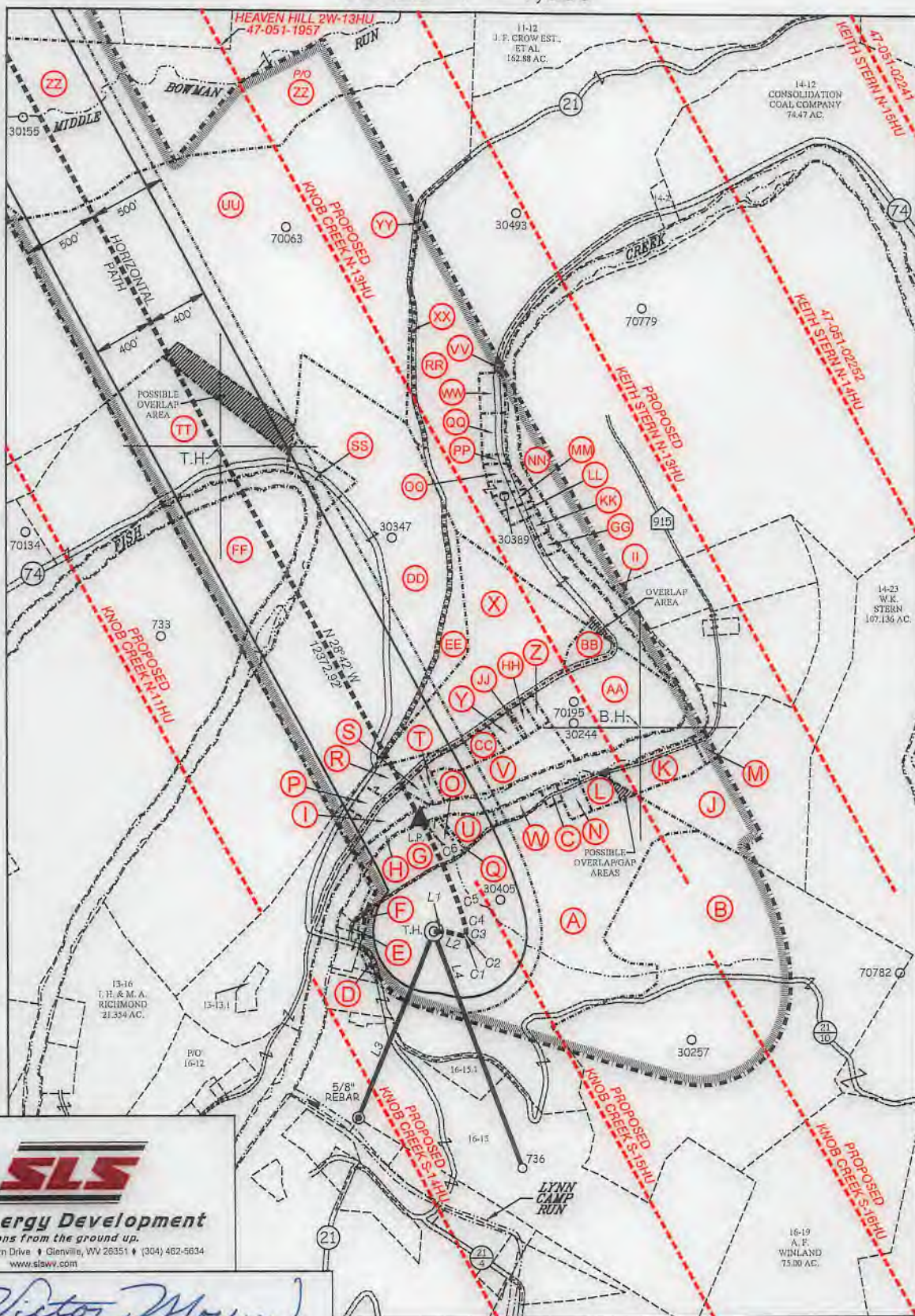
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UTICA UNIT - 599.24 AC±
WELL 12HU
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°50'00"

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

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

NAD '83 GRID NORTH



7,875' T.H.

11,546' B.H.



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- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

COUNTY NAME

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SCALE 1" = 1000' FILE NO. 8789P12HUR-REV2.dwg
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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
ADDRESS CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

**KNOB CREEK N LEASE
UTICA UNIT - 599.24 AC ±
WELL 12HU
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. 8789P12HUR-REV2.dwg
KNOB CREEK N-12HU REV2

DATE AUGUST 21, 20 19

REVISED SEPTEMBER 18, 2019

OPERATORS WELL NO. KNOB CREEK N-12HU

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 CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME

PERMIT