

A.D.
B.H.

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

KNOB CREEK S LEASE UTICA UNIT - 310.73 AC± WELL 14HU TUG HILL OPERATING

AS DRILLED COORDINATES FOR WELL NO. 14HU

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

NAD'83 S.P.C.(FT)	N. 464,872.53	E. 1,629,692.92
NAD'83 GEO.	LAT-(N) 39.770072	LONG-(W) 80.705392
NAD'83 UTM (M)	N. 4,402,279.50	E. 525,231.80

LANDING POINT

NAD'83 S.P.C.(FT)	N. 464,553.4	E. 1,628,885.3
NAD'83 GEO.	LAT-(N) 39.769167	LONG-(W) 80.708250
NAD'83 UTM (M)	N. 4,402,178.2	E. 524,987.4

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 457,411.7	E. 1,632,763.0
NAD'83 GEO.	LAT-(N) 39.749704	LONG-(W) 80.694118
NAD'83 UTM (M)	N. 4,400,022.1	E. 526,205.1

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T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"
92' B.H. A.D.

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	JAMES G. FOX	9-14-43	0.66
F	NILA JEAN FROHNAPFEL	9-13-12	91.1007
G	MARGARET FOX - LIFE	9-13-13	15.513
H	THOMAS JOHN FOX	9-13-13.1	0.827
I	MARGARET FOX - LIFE	9-14-41	9,165 SQ. FT
J	MARGARET FOX - LIFE	9-14-39	8,675 SQ. FT
K	MARGARET FOX - LIFE	9-14-40	19,560 SQ. FT
L	MARGARET FOX - LIFE	9-14-36	1,600 SQ. FT
M	MARGARET FOX - LIFE	9-14-37	LOT
N	MARGARET FOX - LIFE	9-14-38	0.631
O	PAUL G. FOX	9-14-35	0.338
P	JAMES RICHMOND	9-16-12	28.638
Q	LYNN CAMP METHODIST CHURCH	9-16-14	0.762
R	JAMES G. RICHMOND, ET UX	9-16-12.1	0.691
S	RONALD R. YOUNG, ET UX - LIFE	9-16-15	52.02
T	PAUL R. BLAKE	9-16-13	97.9962
U	ERIC I. YOUNG	9-16-15.1	1.98
V	WESLEY D. YEATER, ET UX	9-16-13.6	2.144
W	CLINTON B. WHITELATCH, SR.	9-16-16	1 AC. & 5 6/10 P.
X	PAUL W. BLAKE - LIFE	9-16-13.1	0.91
Y	PAUL R. BLAKE & PAUL R. BLAKE, II	9-16-13.5	2.291
Z	ELEANOR M. FOX ESTATE	9-16-13.2	1.570
AA	ELEANOR M. FOX ESTATE	9-16-17	0.741
BB	JOHN FOX	9-16-13.4	0.533
CC	ROBIN D. & DAVID G. STEWART	9-16-18.1	3.333
DD	LOUIS T. FOX	9-16-20	86.174
EE	ALICE FAYE WINLAND	9-16-18	48.667
FF	ALICE FAYE WINLAND	9-16-19	75.00
GG	LOUIS T. FOX	9-18-7	27.864
HH	ROBERT J. COMBS, ET AL	9-18-9	110.75
II	DOUGLAS J. WAYMAN	9-18-8	92.72
JJ	BETTY J. GOULDSBERRY ESTATE, ET AL	9-18-11	60.00

A.D.
T.H.

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 & 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 S-14HU (47-051-02288) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF EXISTING WELLS
KNOB CREEK N-11HU (47-051-02287),
KNOB CREEK N-12HU (47-051-02268),
KNOB CREEK N-13HU (47-051-02269),
KNOB CREEK S-15HU (47-051-02289),
KNOB CREEK S-16HU (47-051-02290),
KEITH STERN N-13HU (47-051-02265).
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.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 MAY 21, 20 21
REVISED _____, 20 _____
OPERATORS WELL NO. KNOB CREEK S-14HU
API WELL NO. 47 - 051 - 02288
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P14HUAD.dwg
KNOB CREEK S-14HU REV3
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 = 730.90' 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 ADDITIONAL SHEETS ACREAGE 65.824±

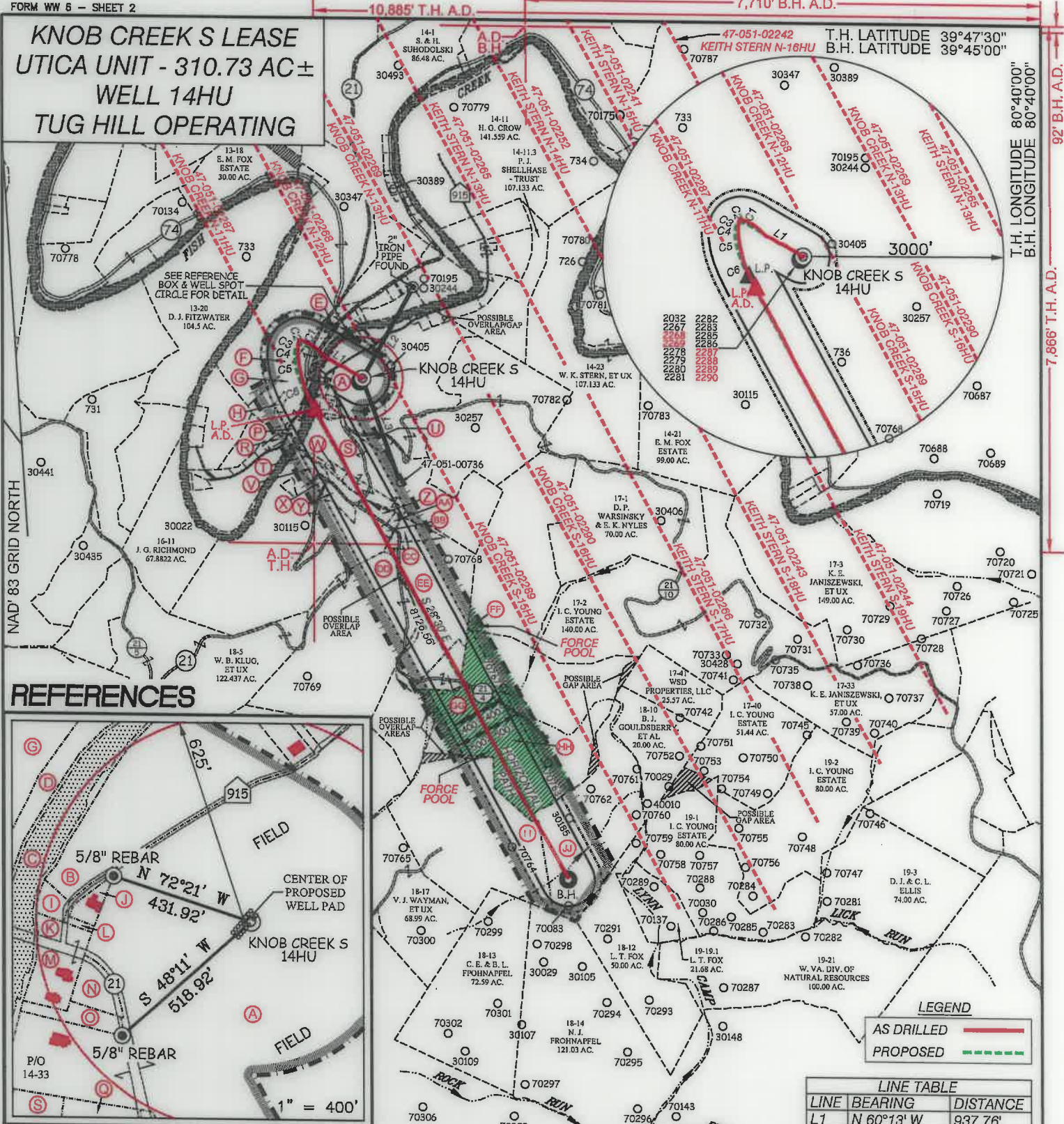
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,295' TMD: 19,886'

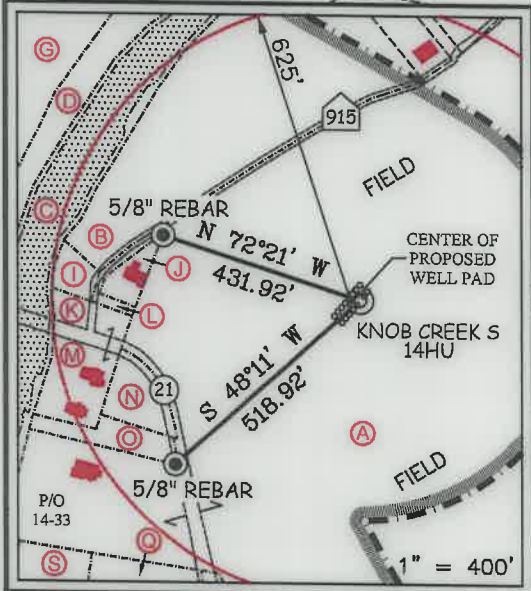
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

**KNOB CREEK S LEASE
UTICA UNIT - 310.73 AC±
WELL 14HU
TUG HILL OPERATING**



REFERENCES



LEGEND

AS DRILLED ——— (Red line)
PROPOSED - - - - - (Green dashed line)

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 60°13' W	937.76'
L2	N 29°08' E	1560.90'
L3	S 19°57' E	1661.04'

CHORD BEARING

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	93.12'	262.75'	N 69°18' W	92.64'
C2	91.01'	89.43'	S 71°30' W	87.13'
C3	70.37'	149.45'	S 24°37' W	69.72'
C4	96.82'	391.36'	S 03°55' W	96.57'
C5	280.49'	1131.40'	S 11°23' E	279.77'
C6	389.12'	2199.17'	S 23°40' E	388.61'



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(+) 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
- FORCE POOL TRACT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

SCALE 1" = 2000' FILE NO. 8789P14HUAD.dwg
KNOB CREEK S-14HU REV3
DATE MAY 21, 20 21
REVISED _____, 20 _____
OPERATORS WELL NO. KNOB CREEK S-14HU
API WELL NO. 47 — 051 — 02288
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

T.H. LATITUDE 39°47'30" B.H. LATITUDE 39°45'00" T.H. LONGITUDE 80°40'00" B.H. LONGITUDE 80°40'00" 92° B.H. A.D. 7,666' T.H. A.D.

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UTICA UNIT - 310.73 AC±
WELL 14HU
TUG HILL OPERATING**



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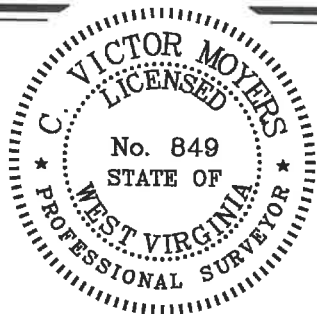
NO.	Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*47051.219.1	9-14-33	A	DAVID LEE FRANKLIN	874	312
2	10*47051.219.1	9-14-44	B	DAVID LEE FRANKLIN	937	385
3	10*23458	FISH CREEK	C	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	1019	373
4	10*19538	9-14-42	D	JOHN C LAGOS AND CYNTHIA M LAGOS	936	531
5	10*18732	9-14-43	E	SHERRILL M LEAVERS AND JAMES H LEAVERS, ET AL	938	245
6	10*24858	9-13-12	F	NILA JEAN FROHNAPFEL	1028	119
7	10*18732	9-13-13	G	SHERRILL M LEAVERS AND JAMES H LEAVERS, ET AL	938	245
8	10*18732	9-13-13.1	H	SHERRILL M LEAVERS AND JAMES H LEAVERS, ET AL	938	245
9	10*47051.219.1	9-14-41	I	DAVID LEE FRANKLIN	937	385
10	10*47051.219.1	9-14-39	J	DAVID LEE FRANKLIN	937	385
11	10*18298	9-14-40	K	MAUREEN GREGG, ET AL	929	273
12	10*47051.219.1	9-14-36	L	DAVID LEE FRANKLIN	937	385
13	10*18298	9-14-37	M	MAUREEN GREGG, ET AL	929	273
14	10*47051.243.1	9-14-38	N	MARY A FOX, ET AL	879	332
15	10*47051.219.1	9-14-35	O	DAVID LEE FRANKLIN	937	385
16	10*16481	9-16-12	P	JAMES G RICHMOND AND CINDY L RICHMOND	829	71
17	10*23112	9-16-14	Q	JOHN V AND RACHEL M SHEPHERD	63	219
18	10*16481	9-16-12.1	R	JAMES G RICHMOND AND CINDY L RICHMOND	829	71
19	10*23112	9-16-15	S	JOHN V AND RACHEL M SHEPHERD	63	219
20	10*47051.135.0	9-16-13	T	PAUL R BLAKE	878	280
21	10*23112	9-16-15.1	U	JOHN V AND RACHEL M SHEPHERD	63	219
22	10*47051.151.0	9-16-13.6	V	WESLEY D YEATER AND CAROL A YEATER	873	504
23	10*27100	9-16-16	W	BEVERLEY WHITELATCH, ET AL	1050	199
24	10*19615	9-16-13.1	X	WESLEY D YEATER JR AND MONICA YEATER	937	323
25	10*19616	9-16-13.1	X	WESLEY D YEATER AND CAROL A YEATER	937	315
26	10*17772	9-16-13.5	Y	KANDI MIDCAP	942	449
27	10*47051.243.1	9-16-13.2	Z	MARY A FOX, ET AL	879	332
28	10*47051.243.1	9-16-17	AA	MARY A FOX, ET AL	879	332
29	10*47051.243.6	9-16-13.4	BB	THOMAS J FOX	876	61
30	10*47051.161.0	9-16-18.1	CC	DAVID G STEWART & ROBIN D STEWART	885	65
31	10*23726	9-16-20	DD	LOUIS T FOX, ET AL	1011	520
32	10*47051.187.1	9-16-18	EE	ALICE F WINLAND	881	133
33	10*18424	9-16-19	FF	BRENDA J LOHRUM, ET AL	932	590
34	*FORCE POOL* 10*23112	9-16-19	FF	JOHN V AND RACHEL M SHEPHERD	63	219
35	10*21293	9-18-7	GG	LOUIS T FOX AND KAREN A FOX	952	364
36	"FORCE POOL"	9-18-9	HH	CATHARINE V B YOUNG AND A J YOUNG	164	534
37	10*47051.152.1	9-18-8	II	TAMMY JO LONG	860	361
38	10*47051.152.2	9-18-8	II	DOUGLAS J WAYMAN	865	350
39	10*15938	9-18-11	JJ	MARK W YOHO, ET AL	695	157

FILE NO. 8789P14HUAD.dwg
KNOB CREEK S-14HU REV3

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10/21/2022

P.S. 849

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COUNTY NAME
PERMIT

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