

**TEN HIGH 1N LEASE  
UTICA UNIT - 621.36 AC±  
WELL 20HU  
TUG HILL OPERATING**

T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°52'30"

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

NAD'83 S.P.C.(FT) N. 478,129.43 E. 1,636,785.22  
NAD'83 GEO. LAT-(N) 39.806722 LONG-(W) 80.680854  
NAD'83 UTM (M) N. 4,406,354.29 E. 527,318.92

LANDING POINT

NAD'83 S.P.C.(FT) N. 479,998.1 E. 1,638,589.5  
NAD'83 GEO. LAT-(N) 39.811917 LONG-(W) 80.674447  
NAD'83 UTM (M) N. 4,406,932.9 E. 527,865.2

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 489,742.5 E. 1,633,801.6  
NAD'83 GEO. LAT-(N) 39.835748 LONG-(W) 80.691903  
NAD'83 UTM (M) N. 4,409,572.5 E. 526,362.0

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

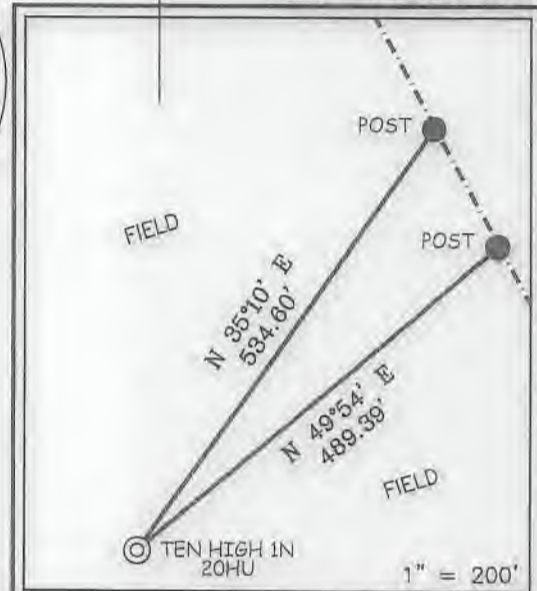
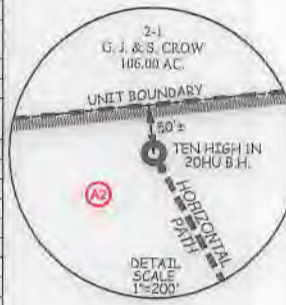
TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
C	ROBERT G. HUBBS & SCARLETTE E. OTTE	9-7-12.1	86.363
D	MARK H. FOX	9-7-11	75.37
E	NATHAN WILLIAMS	9-7-28.1	2.768
F	W.V. DEPT. OF HIGHWAYS	9-7-11.1	3.63
G	VICTOR & CLAIRE CAMERON	9-7-28	1.983
H	DARLA JO COX, ET AL.	9-7-29	85.540
I	CAROL J. ANDERSON - LIFE	9-7-29.1	5.004
J	CAROL J. ANDERSON - LIFE	9-7-27	1.006
K	RONALD MOORE, ET UX	9-7-12	16.587
L	ROBERT HENDERSON, ET AL.	9-7-8	48.00
M	RONALD MOORE, ET UX	9-7-13	51.49
N	ROBERT G. HUBBS & SCARLETTE E. OTTE	9-7-7	108.61
O	TERESA L. HORNER WITH JERRY G. & CAROLYN K. FLETCHER (LIFE ESTATE)	9-7-6	103.30
P	DAVID L. HOLMES, ET UX	9-5-14	37.345
Q	DAVID L. HOLMES, ET UX	9-5-14.2	4.995
R	DAVID L. HOLMES, ET UX	9-5-14.5	1.66
S	SHELLY ANN JORDAN, GEORGIA JORDAN LIFE ESTATE	9-5-13	5.51
T	SAVANNA WEST, ET AL.	9-5-14.1	2.819
U	MARK H. FOX, ET UX	9-5-14.3	10.714
V	BETTY R. OTT	9-5-14.4	10.501
W	BETTY R. OTT	9-5-19	0.933
X	CARLA SUE CROW	9-5-17	6.341
Y	KELLY WILSON WITH DONLD E. LEACH (LIFE ESTATE)	9-5-18	5.807
Z	KELLY WILSON WITH DONLD E. LEACH (LIFE ESTATE)	9-5-20	6.924
AA	LARRY L. CONKLE, JR.	9-5-16	2.365
BB	MARK H. FOX, ET UX	9-5-15	36.533
CC	SCOTT A. HOSTUTLER	9-5-16.1	0.142
DD	MICHAEL JOSEPH SNYDER	9-5-5.4	64.00
EE	RALPH E. WELLMAN, ET UX	9-5-21	1.00
FF	RALPH E. WELLMAN, ET UX	9-5-22	0.5
GG	RALPH E. WELLMAN, ET UX	9-5-23	1.00
HH	ALVIE & MARCELLA DARRAH	9-5-24	1.986
II	MISTY CROW WITH ROBERT & ELSIE WHETZEL (LIFE ESTATE)	9-5-8.2	1.973
JJ	YEATER ADDITION TO BOWMAN RIDGE CEMETERY FROM PLAT OF SURVEY DB 509-374	NOT ASSD	NOT ASSD
KK	SCOTT A. HOSTUTLER	9-5-8	26.752
LL	ISAAC MCKINNEY, ET UX	9-5-8.1	2.875
MM	ME CHURCH	9-5-7	81.5 POLES (6 AC ASSD)
NN	M E CHURCH	NOT ASSD	NOT ASSD
OO	TRUSTEES OF M E CHURCH	NOT ASSD	1.00
PP	MICHAEL JOSEPH SNYDER	9-5-5	35.02
QQ	DAVID M. TOLER, ET UX	9-5-5.1	0.985
RR	NANCY L. SNYDER	9-5-6.6	0.420
SS	NANCY L. SNYDER	9-5-6.7	0.678
TT	NANCY L. SNYDER	9-5-6.8	0.691
UU	JON B. CRAWFORD	9-5-6.1	4.679
VV	HARRY J. CRAWFORD, ET UX (LIFE ESTATE)	9-2-12	80.718
WW	MICHAEL JOSEPH SNYDER	9-5-6.2	2.82
XX	NANCY L. SNYDER	9-5-6.4	0.694
YY	NANCY L. SNYDER (LIFE ESTATE)	9-5-6	82.858
ZZ	CNX LAND LLC	9-2-12.2	31.392
A0	CNX LAND RESOURCES INC.	9-2-12.1	36.00
A1	ROBERT A. & CHERYL L. WILLIAMS	9-1-13	80.897
A2	CNX LAND LLC	9-5-6.9	22.392

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-1-13.1	BURDETTE L. BEUCKE	14.256
9-1-13.4	MACK L. CROW	4.273
9-1-13.5	MACK L. CROW	2.491
9-1-13.6	GERALD E. LOGSDON, ET UX	7.621
9-1-13.7	SHARON D. TUCKER	7.817
9-1-14	ALICIA JANE MARTIN	2.4602
9-1-14.1	ALICE J. & DOUGLAS J. MARTIN	0.905
9-5-5.2	PETER PARKER	0.873
9-5-5.3	MICHAEL J. & NANCY L. SNYDER	1.870
9-5-6.3	DEUTCHE BANK NATIONAL TRUST CO.	1.391
9-5-6.3	LINDA GORBY DELBERT	1.087
9-5-14.1	SAVANNA WEST, ET AL.	2.819
9-5-14.3	MARK FOX, ET UX	10.714
9-5-24	ALVIE & MARCELLA DARRAH	1.986
9-7-11.1	WV DEPT OF HIGHWAYS	3.63
9-7-25	THOMAS R. & KIMBERLY WHITFIELD	0.83
9-7-25.1	THOMAS R. & KIMBERLY WHITFIELD	4.23
9-7-27	CAROL J. ANDERSON - LIFE	1.005
9-7-28	VICTOR & CLAIRE CAMERON	1.983
9-7-28.1	NATHAN WILLIAMS	2.768
9-7-29.1	CAROL J. ANDERSON - LIFE	5.004
9-11-7.1	BRENDA J. WHETZEL	17.812
9-11-8	WNEK FAMILY IRREVOCABLE TRUST	30.10
9-12-4	THOMAS R. & KIMBERLY WHITFIELD	54.02

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.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- PROPOSED LATERAL OR TOP HOLE OF TEN HIGH 1N-20HU (47-051-02021) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF THE FOLLOWING:  
HEAVEN HILL 3-8HU (47-051-01967),  
PROPOSED HEAVEN HILL 3N-16HU,  
TEN HIGH 1N-11HU (47-051-01960),  
TEN HIGH 1N-12HU (47-051-01961),  
TEN HIGH 1N-13HU (47-051-01965),  
TEN HIGH 1S-14HU (47-051-01966),  
TEN HIGH 1S-15HU (47-051-02027),  
TEN HIGH 1S-16HU (47-051-02028),  
TEN HIGH 1S-17HU (47-051-02033),  
PROPOSED HUDSON S-11HU,  
PROPOSED HUDSON S-12HU.

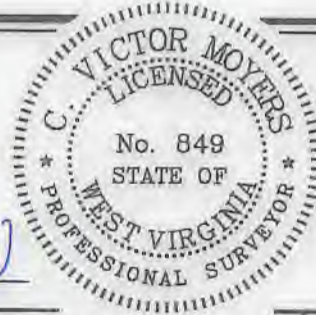
REFERENCES



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.6634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slsvv.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 JANUARY 19, 20 18  
REVISED 02/20/19, 03/09/19, 09/19/19, 10/23/19, 11/12/19, 07/08/20  
OPERATORS WELL NO. TEN HIGH 1N-20HU  
API WELL NO. 47 - 051 - 02021 MOD  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P20HUR8.dwg  
SCALE 1" = 2000'  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)  
TEN HIGH 1N-20HU Rev8

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



WELL TYPE: OIL    GAS X INJECTION    WASTE DISPOSAL    IF "GAS" PRODUCTION X STORAGE    DEEP X SHALLOW     
LOCATION: GROUND = 1,319.90' ELEVATION PROPOSED = 1,310.06' WATERSHED MIDDLE BOWMAN RUN OF FISH CREEK (HUC 10)  
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'  
SURFACE OWNER LAWRENCE & SHIRLEY CONKLE ESTS ACREAGE 139.79±  
ROYALTY OWNER ANDY PAUL & JACKIE KUHN, ET AL - SEE ADDITIONAL SHEETS ACREAGE 139.79±  
PROPOSED WORK: LEASE NO. SEE ADDITIONAL SHEETS  
DRILL X CONVERT    DRILL DEEPER    REDRILL    FRACTURE OR STIMULATE X 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:11,962' / TMD: 22,874'

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

COUNTY NAME PERMIT



**TEN HIGH 1N LEASE  
UTICA UNIT - 621.36 AC±  
WELL 20HU  
TUG HILL OPERATING**

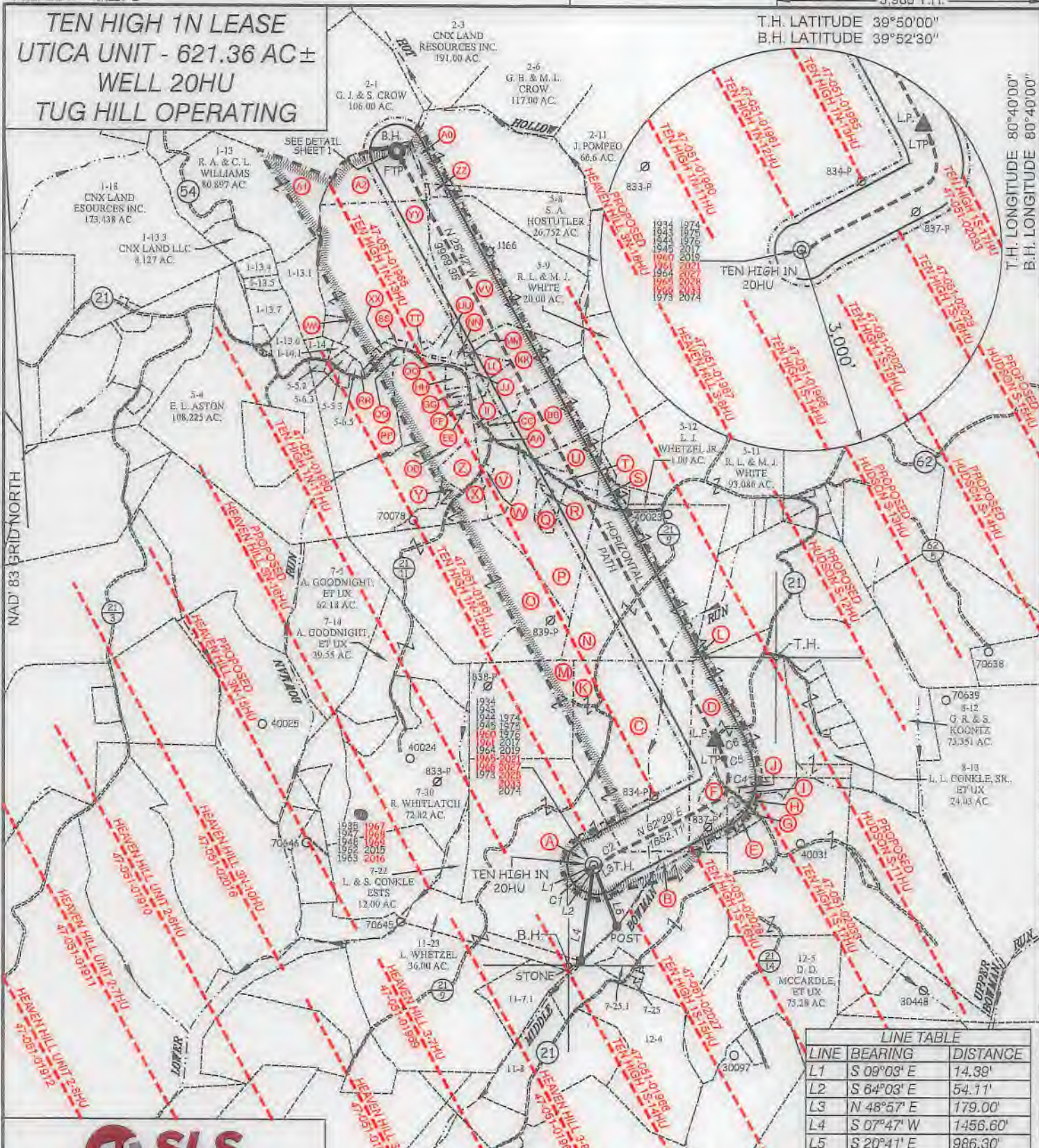
T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°52'30"

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

NAD'83 GRID NORTH

9,694' T.H.

14,298' B.H.



LINE TABLE		
LINE	BEARING	DISTANCE
L1	S 09°03' E	14.39'
L2	S 64°03' E	54.11'
L3	N 48°57' E	179.00'
L4	S 07°47' W	1456.60'
L5	S 20°41' E	986.30'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	4.93'	6.50'	S 30°36' E	4.81'
C2	229.95'	1045.84'	N 56°53' E	229.48'
C3	289.97'	316.45'	N 36°00' E	279.93'
C4	202.64'	529.31'	N 01°12' W	201.40'
C5	259.96'	1404.10'	N 16°40' W	259.59'
C6	252.07'	2109.73'	N 25°13' W	251.92'



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
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slsvw.com

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

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NAD'83 UTM (M)	N. 4,406,354.29	E. 527,318.92
<b>LANDING POINT</b>		
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<b>BOTTOM HOLE</b>		
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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
- PROPOSED FIRST TAKE POINT
- PROPOSED LAST TAKE POINT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

SCALE 1" = 2000' FILE NO. 8655P20HUR6.dwg  
TEN HIGH 1N-20HU Rev8  
DATE JANUARY 19 20 18  
02/20/19, 03/09/19, 09/19/19,  
REVISED 10/23/19, 11/12/19, 07/06/20  
OPERATORS WELL NO. TEN HIGH 1N-20HU  
API WELL NO. 47 — 051 — 02021  
NO. STATE COUNTY PERMIT

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

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



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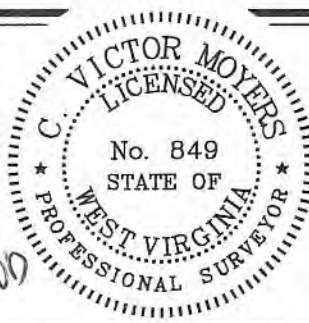
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 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 slswv.com

No.	Lease Name or No.	Tag	Parcel	Grantors, Lessors, etc.	Deed Book/Page
1	10*15662	A	9-7-24	LARRY LEE CONKLE, ET AL	863 354
2	10*15481	B	9-7-25.2	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
3	10*15501	C	9-7-12.1	RONALD AND EDNA MOORE, ET AL	661 449
4	10*47051.094.0	D	9-7-11	MARK H FOX	864 163
5	10*19183	E	9-7-28.1	EVELYN M WILLIAMS	720 180
6	10*19565	F	9-7-11.1	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	947 566
7	10*19143	G	9-7-28	VICTOR CAMERON CLAIRE CAMERON	872 171
8	10*15524	H	9-7-29	CAROL ANDERSON ET AL	901 563
9	10*15524	I	9-7-29.1	CAROL J ANDERSON ET AL	901 563
10	10*15524	J	9-7-27	CAROL J ANDERSON ET AL	901 563
11	10*15501	K	9-7-12	RONALD AND EDNA MOORE	661 449
12	10*26003	L	9-7-8	ROBERT HENDERSON AND DEBRA HENDERSON, HUSBAND & WIFE, AND BRADLEY HENDERSON	697 215
13	10*15501	M	9-7-13	RONALD AND EDNA MOORE	661 449
14	10*15503	N	9-7-7	ROBERT HUBBS	677 521
15	10*15500	O	9-7-6	JERRY FLETCHER AND CAROLYN FLETCHER, HUSBAND AND WIFE	661 154
16	10*15502	O	9-7-6	SHERWOOD YEATER	748 268
17	10*47051.075.0	P	9-5-14	DAVID L HOLMES AND TERRI L HOLMES	869 204
18	10*47051.075.0	Q	9-5-14.2	DAVID L HOLMES AND TERRI L HOLMES	869 204
19	10*47051.075.0	R	9-5-14.5	DAVID L HOLMES AND TERRI L HOLMES	869 204
20	10*26002	S	9-5-13	GEORGIA JORDAN LIFE ESTATE AND SHELY ANN JORDAN REMAINDERMAN	687 616
21	10*47051.156.0	T	9-5-14.1	MATTHEW RYAN WEST & SAVANNAH NICOLE WEST	876 98
22	10*19005	U	9-5-14.3	MARK H. FOX AND RETTA J. FOX, HIS WIFE	687 598
23	10*15506	V	9-5-14.4	BETTY R. OTT	687 604
24	10*15506	W	9-5-19	BETTY R. OTT	687 604
25	10*15481	X	9-5-17	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
26	10*15481	Y	9-5-18	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
27	10*15481	Z	9-5-20	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
28	10*19133	AA	9-5-16	JERRY L. RUSH, JR. AND JILL RUSH, HIS WIFE	700 239
29	10*19005	BB	9-5-15	MARK H. FOX AND RETTA J. FOX, HIS WIFE	687 598
30	10*19220	CC	9-5-16.1	SCOTT A HOSTUTLER	731 353
31	10*15481	DD	9-5-5.4	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
32	10*15481	EE	9-5-21	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
33	10*15482	FF	9-5-22	SUSAN NELSON, ET AL	908 203
34	10*15481	GG	9-5-23	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
35	10*15482	HH	9-5-24	SUSAN NELSON, ET AL	908 203
36	10*21734	II	9-5-8.2	ROBERT L WHETZEL AND ELSIE E WHETZEL	772 523
37	10*21731	JJ	NOT ASSD	BOWMAN UNITED METHODIST CHURCH, ET AL	867 110
38	10*19206	KK	9-5-8	SCOTT A HOSTUTLER	724 208
39	10*26006	LL	9-5-8.1	ISAAC L MCKINNEY AND YVINNE A MCKINNEY	701 472
40	10*15482	MM	9-5-7	SUSAN NELSON, ET AL	908 203
41	10*21731	NN	NOT ASSD	BOWMAN UNITED METHODIST CHURCH, ET AL	867 110
42	10*16058	OO	NOT ASSD	MATTIE RUTH JACKSON PRESCOTT, ET AL	908 231
43	10*15481	PP	9-5-5	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
44	10*15482	QQ	9-5-5.1	SUSAN NELSON, ET AL	908 203
45	10*16448	RR	9-5-6.6	RALPH L AND JUANITA L CRIM, ET AL	908 584
46	10*16448	SS	9-5-6.7	RALPH L AND JUANITA L CRIM, ET AL	908 584
47	10*16448	TT	9-5-6.8	RALPH L AND JUANITA L CRIM, ET AL	908 584
48	10*16448	UU	9-5-6.1	RALPH L AND JUANITA L CRIM, ET AL	908 584
49	10*26000	VV	9-2-12	HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL	661 156
50	10*16448	WW	9-5-6.2	RALPH L AND JUANITA L CRIM, ET AL	908 584
51	10*16448	XX	9-5-6.4	RALPH L AND JUANITA L CRIM, ET AL	908 584
52	10*16448	YY	9-5-6	RALPH L AND JUANITA L CRIM, ET AL	908 584
53	10*26000	ZZ	9-2-12.2	HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL	661 156
54	10*15482	A1	9-1-13	SUSAN NELSON, ET AL	908 203
55	10*16448	A2	9-5-6.9	RALPH L AND JUANITA L CRIM, ET AL	908 584

FILE NO. 8655P20HUR8.dwg  
 TEN HIGH 1N-20HU Rev8

DATE JANUARY 19, 20 18  
 02/20/19, 03/09/19, 09/19/19,  
 REVISED 10/23/19, 11/12/19, 07/08/20

OPERATORS WELL NO. TEN HIGH 1N-20HU  
 API WELL NO. 47 — 051 — 02021 MOD  
 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