

**HUNTER PETHTEL LEASE
UTICA UNIT - 412.61 AC ±
VAN WINKLE S 23HU WELL
TUG HILL OPERATING**

B.H.

9,032' B.H.

5,218' T.H.

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

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

3,677' T.H.

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

NAD'83 S.P.C.(FT) N. 489,143.79 E. 1,623,704.99
NAD'83 GEO. LAT-(N) 39.781575 LONG-(W) 80.723901
NAD'83 UTM (M) N. 4,403,550.23 E. 523,365.80

LANDING POINT

NAD'83 S.P.C.(FT) N. 489,459.0 E. 1,624,693.8
NAD'83 GEO. LAT-(N) 39.782477 LONG-(W) 80.723398
NAD'83 UTM (M) N. 4,403,851.4 E. 523,685.4

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 457,200.1 E. 1,631,447.0
NAD'83 GEO. LAT-(N) 39.749075 LONG-(W) 80.698788
NAD'83 UTM (M) N. 4,399,951.0 E. 525,805.3

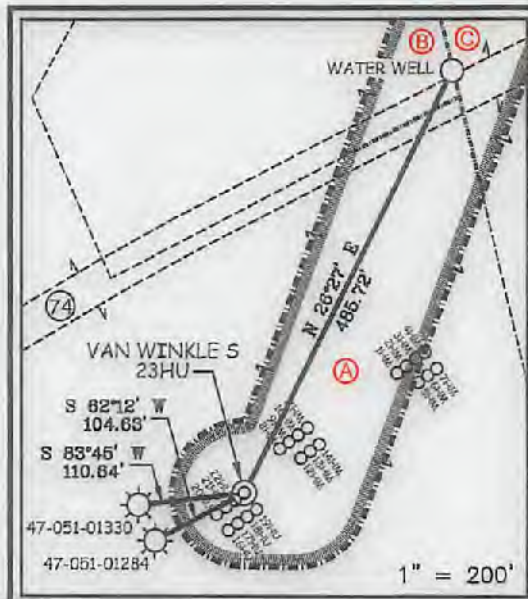
T.H.

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 525' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPD 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 VAN WINKLE S-23HU IS WITHIN 3000' OF TOP HOLES OR LATERALS OF:
PROPOSED VAN WINKLE N-16HU,
PROPOSED VAN WINKLE N-17HU,
PROPOSED VAN WINKLE N-18HU,
PROPOSED VAN WINKLE N-19HU,
PROPOSED VAN WINKLE S-20HU,
PROPOSED VAN WINKLE S-21HU,
PROPOSED VAN WINKLE S-22HU,
KNOB CREEK N-11HU (47-051-02287),
KNOB CREEK S-14HU (47-051-02288),
KNOB CREEK S-15HU (47-051-02289).

TAG	SURFACE OWNER	PARCEL	ACRES
A	XCL MIDSTREAM OPERATING, LLC	9-13-5	190.17
B	MICHAEL WALKER & JOSEPH BLAKE	9-13-5.1	3.26
C	MARY VIRGINIA PETHTEL (LIFE)	9-13-6	66.36
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	MARY VIRGINIA PETHTEL (LIFE)	9-13-7	96.00
F	SHUTLER FAMILY TRUST	9-13-8	56.04
G	MARGARET FOX (LIFE)	9-13-23	1.52
H	EUGENE A. SCHERRER	9-13-22.2	0.925
I	HENRY, JR. & BARBARA DICK	9-13-22.1	11.82
J	TRICYCLE LLC	9-13-22	42.27
K	ELEANOR M. FOX ESTATE	9-13-19	19.20
L	ELEANOR M. FOX ESTATE	9-13-18	30.00
M	SHUTLER FAMILY TRUST	9-13-21	81.49
N	DANIEL JAY FITZWATER	9-13-20	105.5
O	JAMES G. RICHMOND	9-16-8	30.00
P	ANDREW L. FROHNAPFEL	9-13-12	91.1007
Q	JAMES G. RICHMOND	9-16-9	22.71
R	JAMES G. RICHMOND	9-16-11	67.8822
S	IVAN H. & MARGARET A. RICHMOND	9-13-16	21.354
T	IVAN H. & MARGARET A. RICHMOND	9-13-16.1	1.518
U	IVAN H. & MARGARET A. RICHMOND	9-16-10	1.518
V	JAMES RICHMOND	9-16-12	28.638
W	MARGARET FOX (LIFE)	9-13-13	15.513
X	JAMES G. RICHMOND	9-16-12.1	0.691
Y	SPENCER J. & CARRIE A. RICHMOND	9-16-12.6	0.141
Z	SPENCER J. & CARRIE A. RICHMOND	9-16-12.7	0.55
AA	SPENCER J. & CARRIE A. RICHMOND	9-16-12.2	0.575
BB	SHEILA TRUAN, ET VIR	9-16-12.4	0.516
CC	JAMES G. RICHMOND	9-16-12.3	0.937
DD	IVAN H. & MARGARET A. RICHMOND	9-16-12.8	0.85
EE	TIMOTHY S. & GRETCHEN M. KIDD	9-16-12.5	1.23
FF	PAUL R. BLAKE	9-16-13.3	0.7538
GG	PAUL R. BLAKE	9-16-13	97.9962
HH	WILLIAM B. KLUG, ET UX	9-18-5	122.437
II	LOUIS T. FOX	9-16-20	86.174
JJ	ALICE FAYE WINLAND	9-16-18	48.667
KK	LOUIS T. FOX	9-18-7	27.864
LL	LOUIS FOX	9-18-6	141.75
MM	ROBERT J. COMBS, ET AL	9-18-9	110.75
NN	DOUGLAS J. WAYMAN	9-18-8	92.72
OO	VINCENT J. WAYMAN, ET UX	9-18-17	68.99

PARCEL	SURFACE ADJOINER	ACRES
9-10-15	JOSEPH MICHAEL BONENE	44.00
9-10-19	COBLENTZ BROS. INC.	67.88
9-16-13.1	PAUL W. BLAKE (LIFE), WESLEY D. YEATER, JR., ET AL	0.91
9-16-13.2	ELEANOR M. FOX EST.	1.570
9-16-13.4	JOHN FOX	0.533
9-16-13.5	PAUL R. BLAKE & PAUL R. BLAKE II	2.921
9-16-13.6	WESLEY D. YEATER, ET UX	2.144
9-16-16	CLINTON B. WHITELATCH, SR., ET UX, ESTS.	1 AC 5.6 P
9-16-18.1	ROBIN D. & DAVID G. STEWART	5.333
9-18-11	BETTY J. GOULDSBERRY EST., ET AL.	60.00
9-18-17.1	VINCENT JOHN WAYMAN	1.010



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 | 304.255.8296
sllwv.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 14, 20 21

REVISED MARCH 3, 2021

OPERATORS WELL NO. VAN WINKLE S 23HU

API WELL NO. 47-051-02354 Deep
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P23HUR.dwg
VAN WINKLE S 23HU-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: 756.10' PROPOSED: 763.50' WATERSHED FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER XCL MIDSTREAM OPERATING, LLC ACREAGE 190.12 ±
ROYALTY OWNER DENNIS HUNTER, ET AL - SEE WW-6A1 ACREAGE 190.12

PROPOSED WORK: LEASE NO. SEE WW-6A1
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: 11,257' / TMD: 25,638'

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

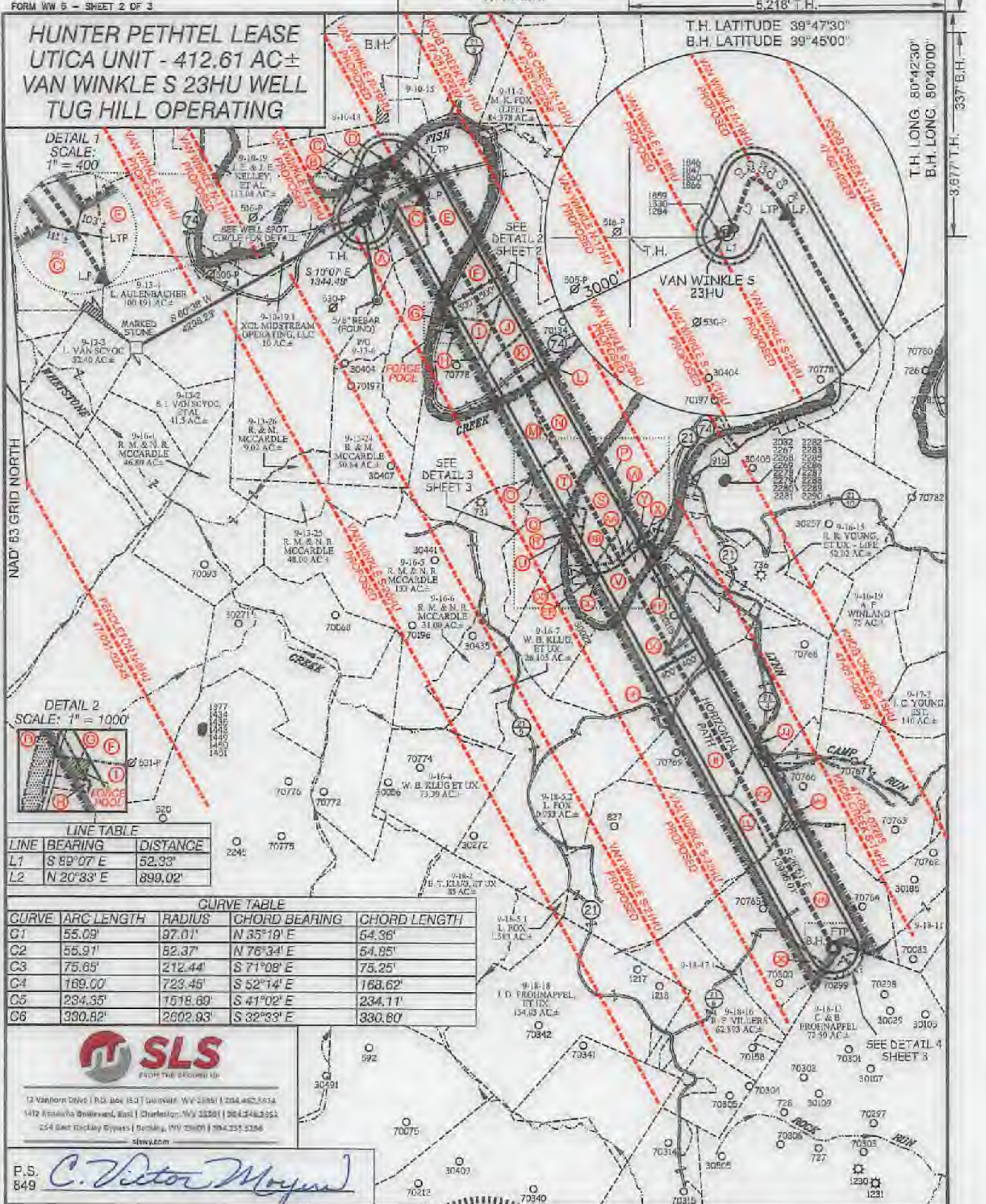
COUNTY NAME PERMIT

07/16/2021

**HUNTER PETHTEL LEASE
UTICA UNIT - 412.61 AC±
VAN WINKLE S 23HU WELL
TUG HILL OPERATING**

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

T.H. LONG. 80°42'30"
B.H. LONG. 80°40'00"
337' B.H.
3,677' T.H.



LINE TABLE

LINE	BEARING	DISTANCE
L1	S 89°07' E	52.33'
L2	N 20°33' E	899.02'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	55.09'	97.01'	N 35°19' E	54.36'
C2	55.91'	82.37'	N 76°34' E	54.85'
C3	75.65'	212.44'	S 71°08' E	75.25'
C4	169.00'	723.46'	S 52°14' E	168.62'
C5	234.35'	1518.60'	S 41°02' E	234.11'
C6	330.82'	2602.93'	S 32°33' E	330.60'

12 Vanhorn Drive | P.O. Box 153 | Unweav, WV 26851 | 304.452.5934
1412 Kanawha Boulevard, East | Charleston, WV 25320 | 304.248.2552
254 East Claydon Ryves | Beckley, WV 25801 | 304.251.2256
slls.com

P.S. 849 *C. Victor Moyers*

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

NAD83 S.P.C.(FT)	N. 969,143.79	E. 1,823,704.99
NAD83 GEO.	LAT-(N) 39.781575	LONG (W) 80.726901
NAD83 UTM (M)	N. 4,409,550.29	E. 629,385.80
LANDING POINT		
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NAD83 GEO.	LAT-(N) 39.782477	LONG (W) 80.723398
NAD83 UTM (M)	N. 4,409,651.4	E. 629,085.4
BOTTOM HOLE		
NAD83 S.P.C.(FT)	N. 467,200.1	E. 1,631,447.0
NAD83 GEO.	LAT-(N) 39.749075	LONG (W) 80.898788
NAD83 UTM (M)	N. 4,399,951.0	E. 626,805.3



(+) 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
- FORCE POOL TRACT
- 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)

07/16/2021

SCALE 1" = 2000' FILE NO. 8952P23HUR.dwg
VAN WINKLE S 23HU-REV3
DATE JANUARY 14, 2021
REVISED MARCH 3, 2021
OPERATORS WELL NO. VAN WINKLE S 23HU
API WELL 47-051-02356
NO. 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

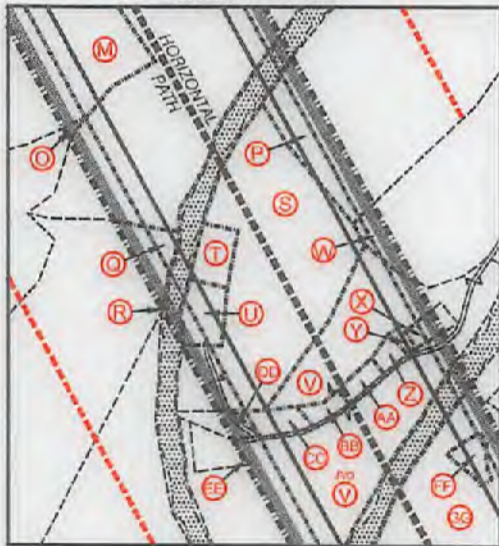
**HUNTER PETHTEL LEASE
UTICA UNIT - 412.61 AC±
VAN WINKLE S 23HU WELL
TUG HILL OPERATING**



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slsuv.com

NO.	Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Deed Book/Page
1	10*31312	9-13-5	A	DENNIS W & KATHY A HUNTER	668 155
2	10*31312	9-13-5.1	B	DENNIS W & KATHY A HUNTER	668 155
3	10*31303	9-13-6	C	MARY V & FRANK E PETHTEL, ET AL	668 525
4	10*23458	Fish Creek	D	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	1019 373
5	10*31303	9-13-7	E	MARY V & FRANK E PETHTEL, ET AL	668 525
6	10*28299	9-13-8	F	THE SHUTLER FAMILY TRUST	1070 425
7	**	9-13-23	G	THOMAS JOHN FOX, ET AL	
8	10*27247	9-13-22.2	H	DANIEL R JOHNSON AND JOANNA L JOHNSON, ET AL	1053 3
9	10*27247	9-13-22.1	I	DANIEL R JOHNSON AND JOANNA L JOHNSON, ET AL	1053 3
10	10*27247	9-13-22	J	DANIEL R JOHNSON AND JOANNA L JOHNSON, ET AL	1053 3
11	10*18527	9-13-19	K	ANN TURNER YOUNG SHRIVER, ET AL	933 589
12	10*18527	9-13-18	L	ANN TURNER YOUNG SHRIVER, ET AL	933 589
13	10*23197	9-13-21	M	J W KELLEY AND R A KELLEY, ET AL	63 156
14	10*18527	9-13-20	N	ANN TURNER YOUNG SHRIVER, ET AL	933 589
15	10*23197	9-16-8	O	J W KELLEY AND R A KELLEY	63 156
16	10*24858	9-13-12	P	NILA JEAN FROHNAPFEL	1028 119
17	10*16481	9-16-9	Q	JAMES G RICHMOND AND CINDY L RICHMOND	829 71
18	10*16481	9-16-11	R	JAMES G RICHMOND AND CINDY L RICHMOND	829 71
19	10*17895	9-13-16	S	IVAN H RICHMOND AND MARGARET A RICHMOND	924 543
20	10*17895	9-13-16.1	T	IVAN H RICHMOND AND MARGARET A RICHMOND	924 543
21	10*17895	9-16-10	U	IVAN H RICHMOND AND MARGARET A RICHMOND	924 543
22	10*16481	9-16-12	V	JAMES G RICHMOND AND CINDY L RICHMOND	829 71
23	10*18732	9-13-13	W	SHERRILL M LEAVERS AND JAMES H LEAVERS, ET AL	938 245
24	10*16481	9-16-12.1	X	JAMES G RICHMOND AND CINDY L RICHMOND	829 71
25	10*31359	9-16-12.6	Y	JAMES G RICHMOND	872 359
26	10*31359	9-16-12.7	Z	JAMES G RICHMOND	872 359
27	10*31359	9-16-12.2	AA	JAMES G RICHMOND	872 359
28	10*31359	9-16-12.4	BB	JAMES G RICHMOND	872 359
29	10*16481	9-16-12.3	CC	JAMES G RICHMOND AND CINDY L RICHMOND, ET AL	829 71
30	10*17895	9-16-12.8	DD	IVAN H RICHMOND AND MARGARET A RICHMOND	924 543
31	10*16481	9-16-12.5	EE	JAMES G RICHMOND AND CINDY L RICHMOND	829 71
32	10*47051.135.0	9-16-13.3	FF	PAUL R BLAKE	878 280
33	10*47051.135.0	9-16-13	GG	PAUL R BLAKE	878 280
34	10*22789	9-18-5	HH	DONNA K FAHEY, ET AL	962 87
35	10*23726	9-16-20	II	LOUIS T FOX, ET AL	1011 520
36	10*47051.187.1	9-16-18	JJ	ALICE F WILKIND	881 133
37	10*21293	9-18-7	KK	LOUIS T FOX AND KAREN A FOX	952 364
38	10*28268	9-18-6	LL	JOSEPH & ELIZABETH SHUTLER	63 203
39	10*27824	9-18-9	MM	CATHARINE V B YOUNG AND A J YOUNG, ET AL	164 534
40	10*47051.152.1	9-18-8	NN	TAMMY JO LONG, ET AL	860 361
41	10*47051.136.0	9-18-17	OO	VINCENT J WAYMAN AND KATHY JO WAYMAN	885 275

DETAIL 3
SCALE: 1" = 1000'



DETAIL 4
SCALE: 1" = 500'



FILE NO. 8952P23HUR.dwg
VAN WINKLE S 23HU-REV3

DATE JANUARY 14, 20 21

REVISED MARCH 3, 2021

OPERATORS WELL NO. VAN WINKLE S 23HU

API NO. 47 — 051 — 02356 Deep
STATE COUNTY PERMIT



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



07/15/2021

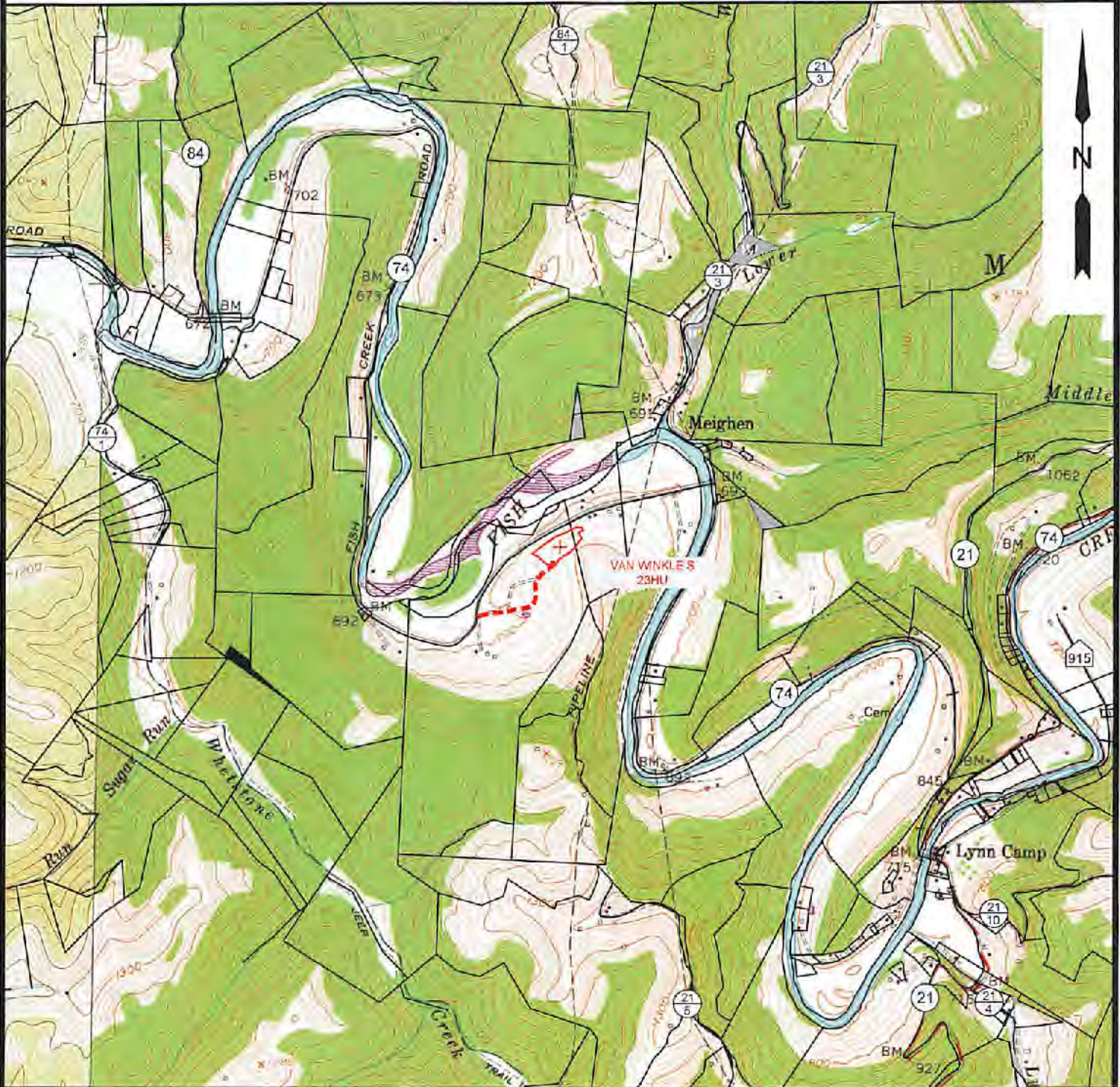
P.S. 849 C. Victor Moyers

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

PROPOSED VAN WINKLE S - 23HU



NOTE: CLOSEST WATER PURVEYOR
GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT
PROCTOR, WV

LAT: 39.7137712
LON: -80.6258327
LOCATED: S 49°13'46" W AT 37,316.19' FROM THE CENTER OF HUNTER PETHTEL N WELL PAD LOCATION.

 12 Vanborn Drive P.O. Box 150 Glenville, WV 26031 304.462.5554 1412 Kanawha Boulevard, East Charleston, WV 25301 304.346.3152 254 East Beckley Bypass Beckley, WV 25801 304.255.6298 sls.com	TOPO SECTION:		OPERATOR:	
	GLEN EASTON 7.5'		PREPARED FOR:	
	COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
	MARSHALL	MEADE	360 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE	
K.G.M.	8952	12/24/2020	1" = 2000'	



**TUG HILL
OPERATING**

07/16/2021