

**HUNTER PETHTEL LEASE
VAN WINKLE S 10HM WELL
TUG HILL OPERATING**

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

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

NAD'83 S.P.C.(FT) N. 469,204.00 E. 1,623,760.92
NAD'83 GEO. LAT-(N) 39.781742 LONG-(W) 80.726705
NAD'83 UTM (M) N. 4,403,568.91 E. 523,402.53

LANDING POINT

NAD'83 S.P.C.(FT) N. 468,022.4 E. 1,622,168.1
NAD'83 GEO. LAT-(N) 39.778439 LONG-(W) 80.732314
NAD'83 UTM (M) N. 4,403,200.8 E. 522,923.3

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 455,450.2 E. 1,629,097.5
NAD'83 GEO. LAT-(N) 39.744185 LONG-(W) 80.707060
NAD'83 UTM (M) N. 4,399,405.9 E. 525,098.4

B.H.

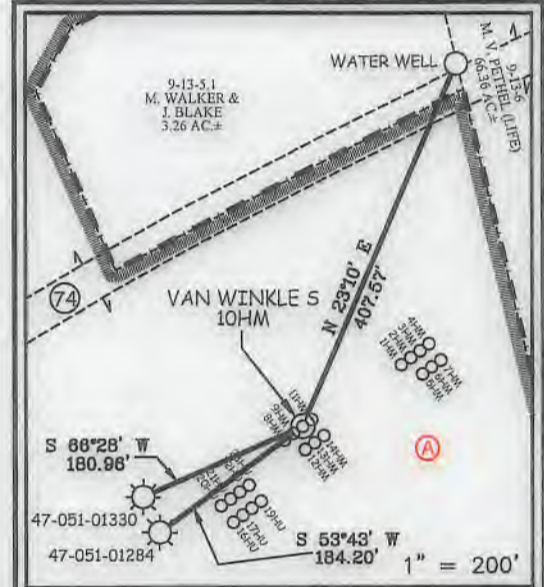
T.H.

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

3,616' T.H.
2,118' B.H.

PARCEL	SURFACE ADJOINER	ACRES
9-13-5.1	MICHAEL WALKER & JOSEPH BLAKE	3.26
9-13-7	MARY VIRGINIA PETHTEL (LIFE)	96.00
9-18-15.1	NICHOLAS FROHNAPFEL, ET UX	0.68
9-18-16.1	NICHOLAS FROHNAPFEL, ET UX	1.50
9-18-16.2	JOHN F. WAYMAN	2.17
9-18-16.3	BERNARD KLUG, ET UX ESTS.	1.818
9-18-18.1	JOHN F. WAYMAN	1.10

REFERENCES

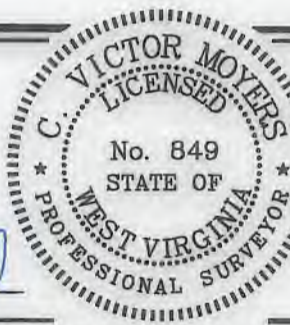


NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 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.



12 Vanhorn Drive | P.O. Box 180 | Glenville, WV 26031 | 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 JANUARY 13, 20 21

REVISED _____

OPERATORS WELL NO. VAN WINKLE S 10HM

API WELL NO. 47 - 051 - 02359
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P10HM.dwg
VAN WINKLE S 10HM-REV1
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: 756.00' PROPOSED: 753.50' 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 03/19/2021

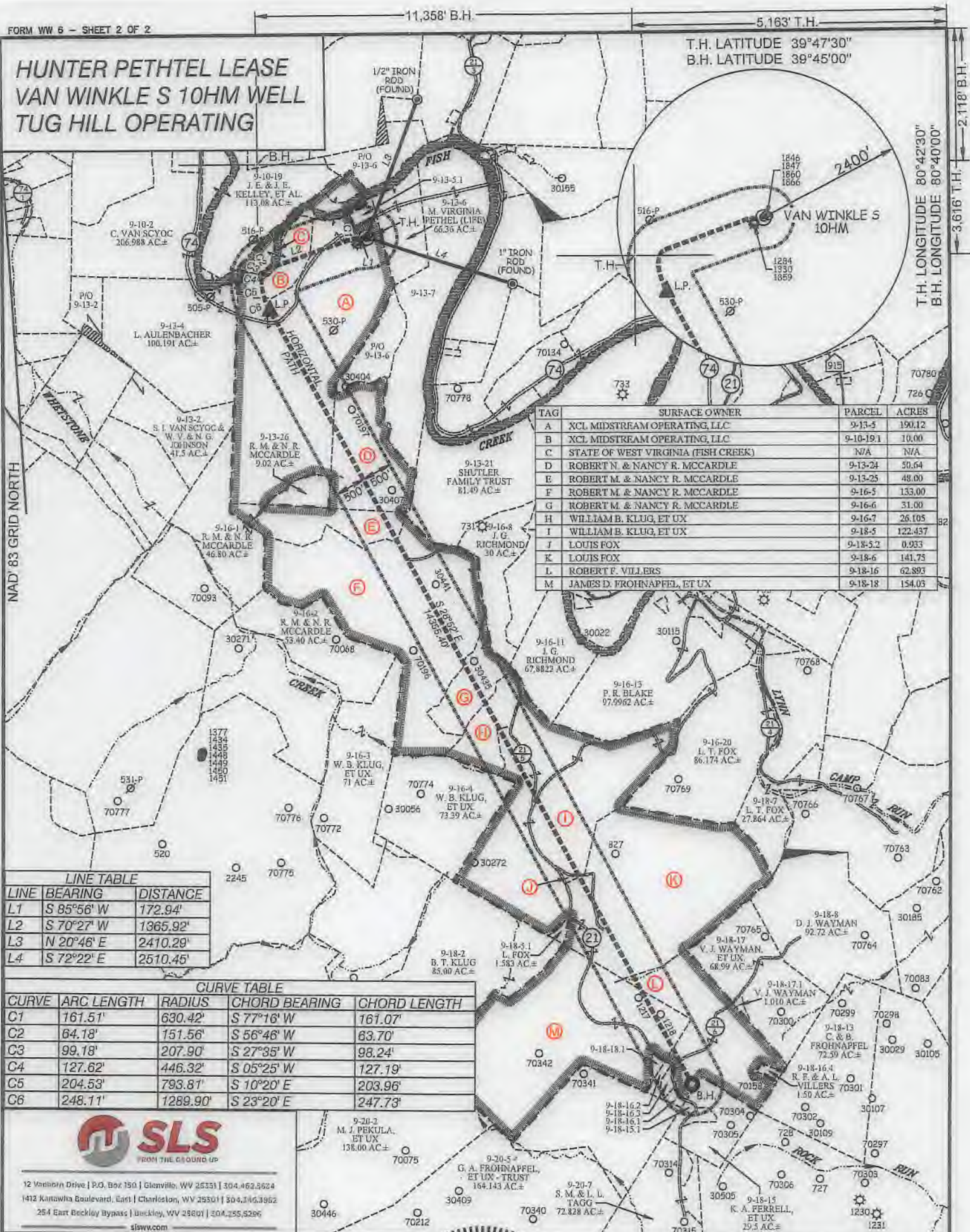
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,258' / TMD: 21,259'

COUNTY NAME PERMIT

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

HUNTER PETHTEL LEASE VAN WINKLE S 10HM WELL TUG HILL OPERATING



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

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

TAG	SURFACE OWNER	PARCEL	ACRES
A	XCL MIDSTREAM OPERATING, LLC	9-13-5	190.12
B	XCL MIDSTREAM OPERATING, LLC	9-10-19.1	10.00
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	ROBERT N. & NANCY R. MCCARDLE	9-13-24	50.64
E	ROBERT M. & NANCY R. MCCARDLE	9-13-25	48.00
F	ROBERT M. & NANCY R. MCCARDLE	9-16-5	133.00
G	ROBERT M. & NANCY R. MCCARDLE	9-16-6	31.00
H	WILLIAM B. KLUG, ET UX	9-16-7	26.105
I	WILLIAM B. KLUG, ET UX	9-18-5	122.437
J	LOUIS FOX	9-18-5.2	0.933
K	LOUIS FOX	9-18-6	141.75
L	ROBERT F. VILLERS	9-18-16	62.893
M	JAMES D. FROHNAPFEL, ET UX	9-18-18	154.03

LINE	BEARING	DISTANCE
L1	S 85°56' W	172.94'
L2	S 70°27' W	1365.92'
L3	N 20°46' E	2410.29'
L4	S 72°22' E	2510.46'

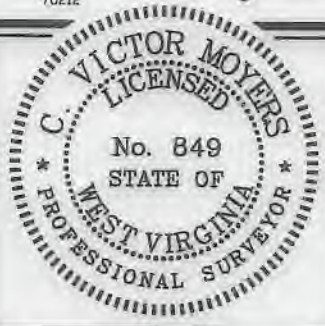
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	161.51'	630.42'	S 77°16' W	161.07'
C2	64.18'	151.56'	S 56°46' W	63.70'
C3	99.18'	207.90'	S 27°35' W	98.24'
C4	127.62'	446.32'	S 05°25' W	127.19'
C5	204.53'	793.81'	S 10°20' E	203.96'
C6	248.11'	1289.90'	S 23°20' E	247.73'

12 Ventnor Drive | P.O. Box 150 | Glenville, WV 26331 | 304.462.5624
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.345.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slswv.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
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P.S. *C. Victor Moyers*
 849

LEASE LINE	
SURFACE LINE	
WELL LATERAL	
OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
TAX MAP-PARCEL	00-00
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE WW-6A1)	

SCALE 1" = 2000' FILE NO. 8952P10HM.dwg
 VAN WINKLE S 10HM-REV1
 DATE JANUARY 13, 20 21
 REVISED _____
 OPERATORS WELL NO. VAN WINKLE S 10HM
 API WELL NO. **47-051-02359**
 NO. STATE COUNTY PERMIT

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

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