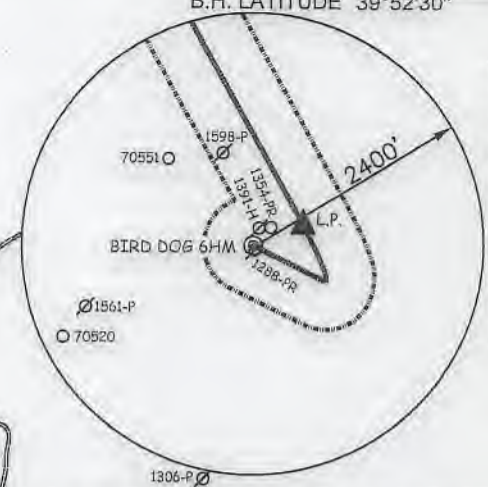


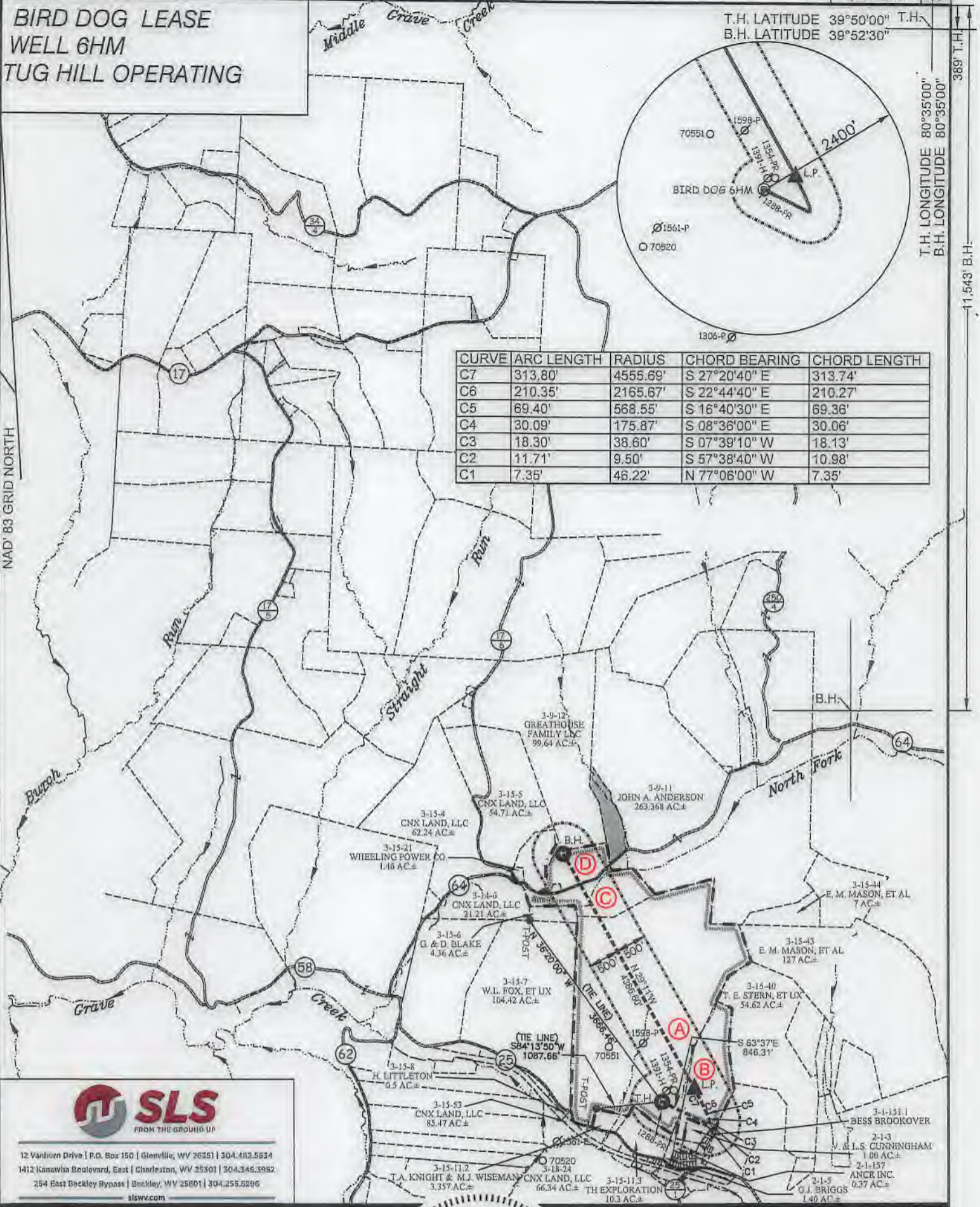
**BIRD DOG LEASE
WELL 6HM
TUG HILL OPERATING**

1,965' B.H.
315'
369' T.H.
11,543' B.H.
T.H. LATITUDE 39°50'00" T.H.
B.H. LATITUDE 39°52'30"
T.H. LONGITUDE 80°35'00"
B.H. LONGITUDE 80°35'00"



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C7	313.80'	4555.69'	S 27°20'40" E	313.74'
C6	210.35'	2165.67'	S 22°44'40" E	210.27'
C5	69.40'	568.55'	S 16°40'30" E	69.36'
C4	30.09'	175.87'	S 08°36'00" E	30.06'
C3	18.30'	38.60'	S 07°39'10" W	18.13'
C2	11.71'	9.50'	S 57°38'40" W	10.98'
C1	7.35'	46.22'	N 77°06'00" W	7.35'

NAD'83 GRID NORTH



12 Vandoren Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.258.5296
slsw.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 487,091.73	E. 1,663,968.69
NAD'83 GEO.	LAT-(N) 39.832266	LONG-(W) 80.584414
NAD'83 UTM (M)	N. 4,409,223.24	E. 535,560.99
<u>LANDING POINT</u>		
NAD'83 S.P.C.(FT)	N. 487,305.4	E. 1,664,496.3
NAD'83 GEO.	LAT-(N) 39.832870	LONG-(W) 80.582545
NAD'83 UTM (M)	N. 4,409,291.0	E. 535,720.6
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 491,134.8	E. 1,662,356.8
NAD'83 GEO.	LAT-(N) 39.843311	LONG-(W) 80.590328
NAD'83 UTM (M)	N. 4,410,446.8	E. 535,049.3



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

P.S. 677 *Gregory A. Smith*

LEGEND

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

SCALE 1" = 2000' FILE NO. 9263P6HM.dwg
BIRD DOG-6HM REV2
DATE OCTOBER 25, 20 22
REVISED _____, 20 ____
OPERATORS WELL NO. BIRD DOG-6HM REV2
API WELL NO. 47 STATE 051 COUNTY 02478 PERMIT
WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

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

DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

COUNTY NAME
PERMIT

12/09/2022

**BIRD DOG LEASE
WELL 6HM
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)

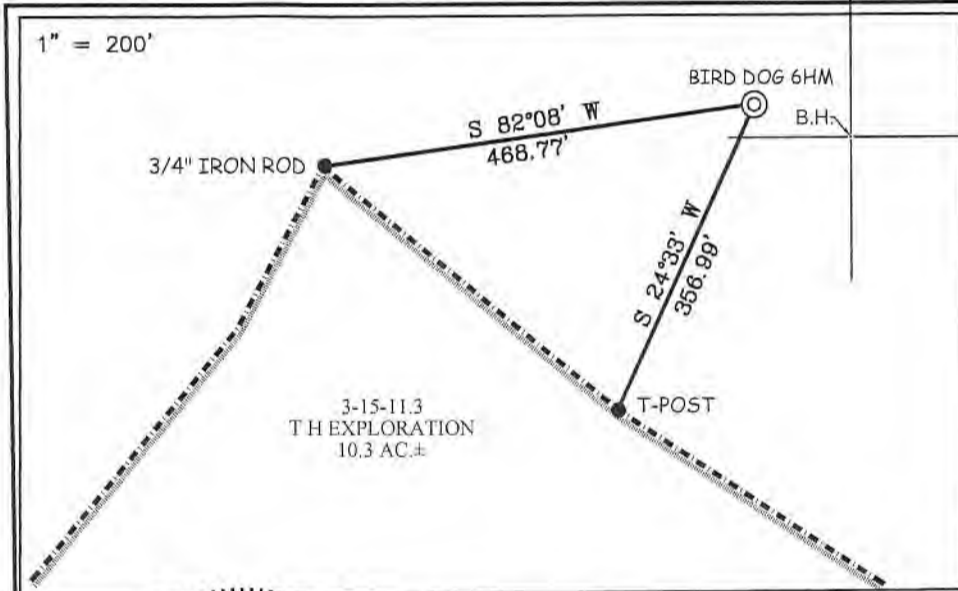
NAD'83 S.P.C.(FT)	N. 487,091.73	E. 1,663,968.69
NAD'83 GEO.	LAT-(N) 39.832266	LONG-(W) 80.584414
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NAD'83 GEO.	LAT-(N) 39.843311	LONG-(W) 80.590328
NAD'83 UTM (M)	N. 4,410,446.8	E. 535,049.3

BIRD DOG 6HM REV2

TAG	SURFACE OWNER	PARCEL	ACRES
A	STEPHEN M. & KIMBERLY STARCOVIC	3-15-11	167.998
B	JAMES & PAULA HILL	3-15-12	26.38
C	GERALD H II & DEBRA D BLAKE -TOD	3-15-5	23.71
D	CNX LAND, LLC	13.48	13.49

T.H. LONGITUDE 80°35'00"
B.H. LONGITUDE 80°35'00"
389' T.H.
11,543' B.H.

REFERENCES



NOTES ON SURVEY

1. 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.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'



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
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. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
DATE OCTOBER 25, 20 22
REVISED _____, 20 ____
OPERATORS WELL NO. BIRD DOG-6HM
API WELL NO. 47 - 051 - 02478
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9263P6HM.dwg
BIRD DOG-6HM 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 = 1,169.20'
ELEVATION PROPOSED = 1,165.96' WATERSHED GRAVE CREEK & NORTH FORK
DISTRICT CAMERON COUNTY MARSHALL QUADRANGLE CAMERON 7.5'

SURFACE OWNER STEPHEN M. STARCOVIC & KIMBERERLY A. STARCOVIC ACREAGE 167.998±
ROYALTY OWNER STEPHEN M. STARCOVIC & KIMBERERLY A. STARCOVIC ACREAGE 167.998±

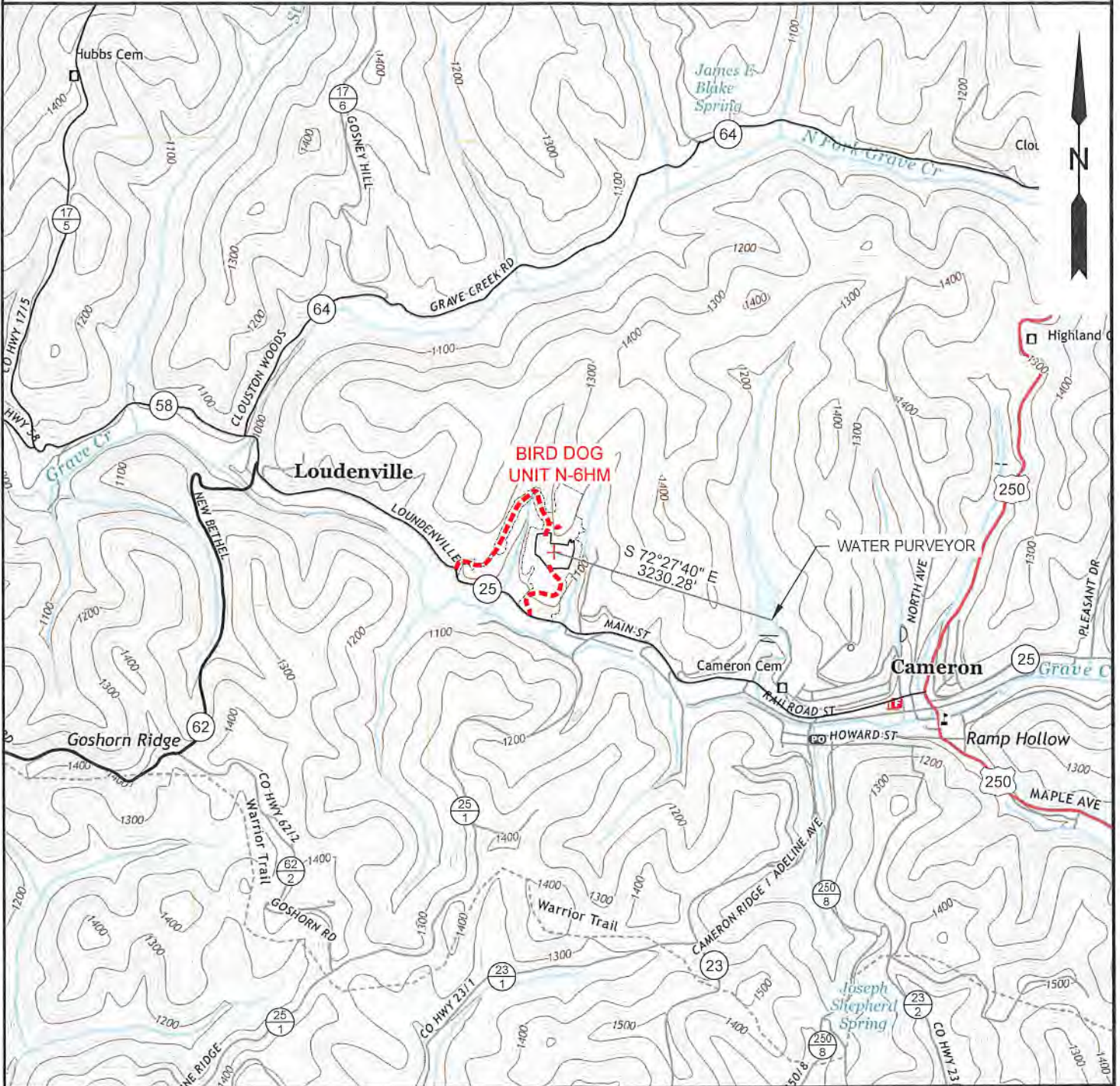
PROPOSED WORK: LEASE NO. _____
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD: 7,012' TMD: 11, 716

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME
PERMIT


12/09/2022

PROPOSED BIRD DOG UNIT N - 6HM



NOTE: CLOSEST WATER PURVEYOR
CITY OF CAMERON - FRANK WALKER RESERVOIR
CAMERON, WV

LAT: 39.829865° N
LON: 80.573724° W
LOCATED: S 72°27'40" E AT 3,230.28' FROM THE CENTER OF BIRD DOG WELL PAD LOCATION.

 <p>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 sllsw.com</p>	TOPO SECTION:		OPERATOR:	
	CAMERON 7.5'		PREPARED FOR:	
	COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
	MARSHALL	CAMERON (DIST)	380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE	
J.D.R.	9263	10/25/2022	1" = 2000'	



**TUG HILL
OPERATING**

12/09/2022