

**BRECKENRIDGE S LEASE
UTICA UNIT - 306.87 AC ±
WELL 23HU
TUG HILL OPERATING**

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

3,486' B.H. 405' T.H.

T.H.

T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°35'00"

6,592' B.H.

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

NAD'83 S.P.C.(FT)	N. 486,495.84	E. 1,652,157.10
NAD'83 GEO.	LAT-(N) 39.830231	LONG-(W) 80.626443
NAD'83 UTM (M)	N. 4,406,991.54	E. 531,965.55

LANDING POINT

NAD'83 S.P.C.(FT)	N. 487,330.1	E. 1,655,972.7
NAD'83 GEO.	LAT-(N) 39.832652	LONG-(W) 80.612895
NAD'83 UTM (M)	N. 4,409,255.1	E. 533,123.7

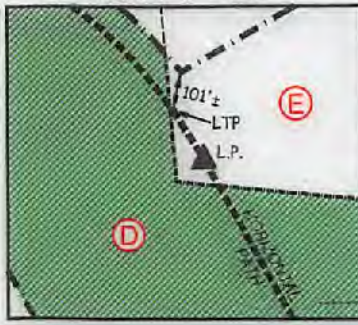
BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 478,928.7	E. 1,860,887.4
NAD'83 GEO.	LAT-(N) 39.809748	LONG-(W) 80.595743
NAD'83 UTM (M)	N. 4,406,719.6	E. 534,602.9

TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND, LLC	3-19-76	53.25
B	CNX LAND, LLC	3-19-75	47.40
C	CNX LAND, LLC	3-18-1	30.00
D	KEVIN R. EVANS	3-14-18	101.8
E	CNX LAND, LLC	3-14-17	17.08
F	KEVIN R. EVANS	3-18-8	45.579
G	CNX LAND, LLC	3-14-19	146.875
H	CNX LAND, LLC	3-18-10	30.00
I	EUGENE & RUTH EVANS ESTATES	3-18-17	50.41
J	MARY L. BURGE	3-18-6	36.33
K	CHARLES N. MATTEWS, JR., ET UX	3-18-12	1.831
L	MOLLY KAY HUBBS COLLINS, ET AL	3-18-13	18.014
M	EUGENE & RUTH EVANS ESTATES	3-18-16	2.37
N	CNX LAND, LLC	3-18-15	58.47
O	CNX LAND, LLC	3-18-14.1	5.08
P	MOLLY KAY HUBBS COLLINS, ET AL	7-2-1	65.70
Q	WILLIAM E. PARSONS, ET UX	7-2-12	83.08
R	M. THOMAS FAMILY TRUST	7-2-12.1	1.836
S	RICHARD L. PARSONS, ET UX	7-2-12.2	1.084
T	WILLIAM E. & NANCY L. PARSONS	7-2-2	56.08
U	WILLIAM E. PARSONS, ET UX	7-2-17	29.312
V	WILLIAM E. PARSONS, ET UX	7-2-11	16.83
W	WILLIAM E. PARSONS, ET UX	7-2-18	56.06
X	CNX LAND, LLC	7-2-19	54.6
Y	MARSHALL COUNTY COAL COMPANY	7-2-23	10.48

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-14-15.1	CNX LAND, LLC	10.682
3-14-15.3	CNX LAND, LLC	8.98
3-18-5	MARY KAY HUBBS COLLINS & OLIVIA SUZANNE HUBBS	25.372
3-18-6.1	ARP WEST VIRGINIA TRANSMISSION COMPANY, LLC	10.175
3-18-7	KEVIN R. & SHELLY JO EVANS	3.134
3-18-8.1	DANIEL L. LILEY, ET UX	1.039
3-18-8.2	KEVIN R. & SHELLY JO EVANS	2.302
3-18-14	MOLLY KAY HUBBS COLLINS & OLIVIA SUZANNE HUBBS	21.52
3-18-18	HENRY DONALD BRIGGS - TOD	31.25
3-18-20	JESSE PARSONS EST.	2.02
3-18-21	MOLLY KAY HUBBS COLLINS & OLIVIA SUZANNE HUBBS	17.042
3-18-21.1	MOLLY KAY HUBBS, ET AL	1.458
3-19-78	CNX LAND, LLC	30.927
7-2-3	BARBARA FRYE, ET VIR	11.24
7-2-9	CNX LAND, LLC	30.927
7-2-10	CNX LAND, LLC	12.559
7-2-10.1	BRENNAN L. & CARRIE A. PAITH	8.391
7-2-14.1	RONALD A. & CAROLYN HENRY ESTS	0.653
7-2-14.2	CNX LAND, LLC	2.321
7-2-16	WILLIAM E. PARSON, ET UX	0.43
7-2-22	CNX LAND, LLC	48.00
7-2-24	MARSHALL COUNTY COAL COMPANY	10.21
7-2-25	MICHAEL B. STERN & AMY L. STERN	12.80

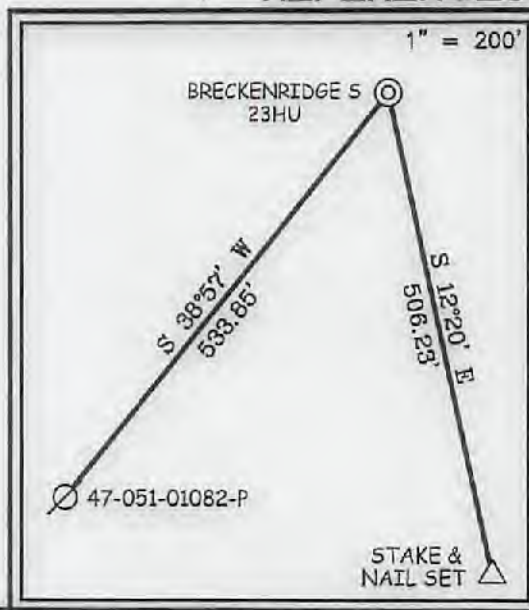
DETAIL
SCALE: 1" = 500'



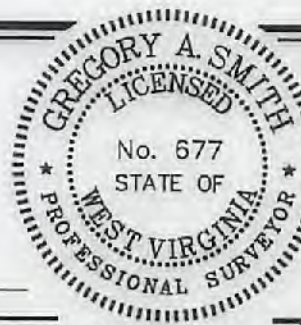
NOTES ON SURVEY

- 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 ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF PROPOSED BRECKENRIDGE S-23HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED OR EXISTING WELLS:
 PROPOSED BRECKENRIDGE S-17HU,
 PROPOSED BRECKENRIDGE S-18HU,
 PROPOSED BRECKENRIDGE S-19HU,
 PROPOSED BRECKENRIDGE S-20HU,
 PROPOSED BRECKENRIDGE S-21HU,
 PROPOSED BRECKENRIDGE S-22HU.

REFERENCES



12 Vashon 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 | 304.255.5295
 slsww.com



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 MAY 3, 20 21
 REVISED 7-15-2021, 8-25-2021, 11-8-2021
 OPERATORS WELL NO. BRECKENRIDGE S-23HU
 API WELL NO. 47 - 051 - 02402
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9026P23HUR3.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'
 BRECKENRIDGE S-23HU-REV4

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 = 1,392.90' ELEVATION PROPOSED = 1,370.10' WATERSHED GRAVE CREEK (HUC 10) & LAUREL RUN DISTRICT CAMERON COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 53.25±
 ROYALTY OWNER HASAN'S VENTURES, ET AL ACREAGE 53.25±

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: 12,141' / TMD: 22,855'

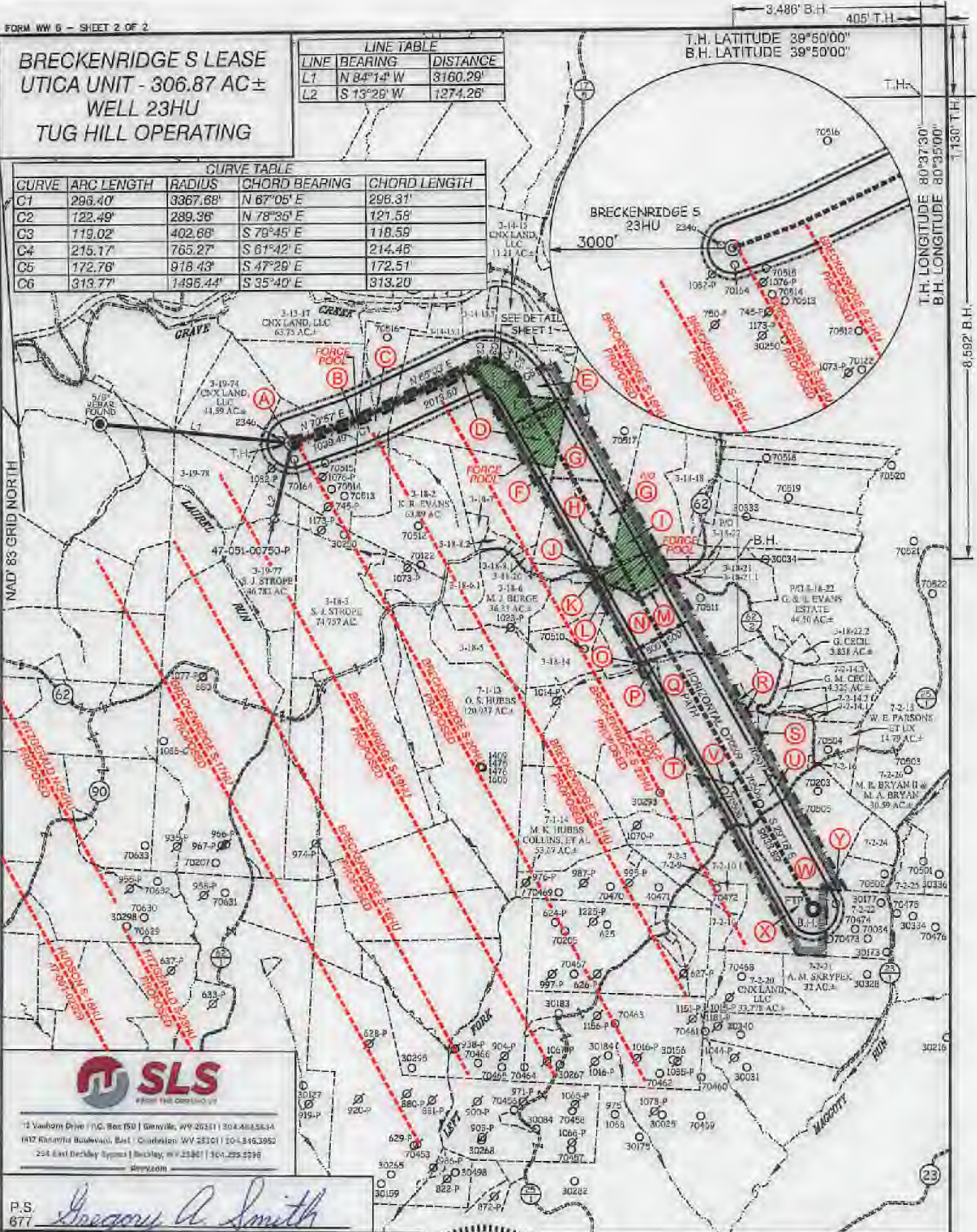
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN CT CORPORATION
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407 FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

**BRECKENRIDGE S LEASE
UTICA UNIT - 306.87 AC±
WELL 23HU
TUG HILL OPERATING**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 84°14' W	3160.29'
L2	S 13°28' W	1274.26'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	298.40'	3367.68'	N 67°05' E	298.31'
C2	122.49'	289.36'	N 78°35' E	121.58'
C3	119.02'	402.68'	S 79°45' E	118.59'
C4	215.17'	765.27'	S 61°42' E	214.46'
C5	172.76'	978.43'	S 47°29' E	172.51'
C6	313.77'	1496.44'	S 35°40' E	313.20'



13 Vaughan Drive | P.O. Box 150 | Glenville, WV 26031 | 304.483.5634
 612 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 294 East Deckler Street | Beckley, WV 25801 | 304.259.5296
 sls.com

P.S. 677 *Gregory A. Smith*



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

LEGEND

- EXTERIOR UNIT BOUNDARY
- INTERIOR LEASE BOUNDARY
- SURFACE LINE
- PROPOSED UTICA
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- FORCE POOL TRACT
- PROPOSED FIRST TAKE POINT
- PROPOSED LAST TAKE POINT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
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SCALE 1" = 2000' FILE NO. 9026P23HUR3.dwg
 BRECKENRIDGE S-23HU-REV4
 DATE MAY 3, 20 21
 REVISED 7-15-2021, 8-25-2021, 11-8-2021
 OPERATORS WELL NO. BRECKENRIDGE S-23HU
 API WELL NO. 47 - 051 - 02402
 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 DARREN BROWN CT CORPORATION ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

11/19/2021

COUNTY NAME PERMIT

**BRECKENRIDGE S LEASE
UTICA UNIT - 306.87 AC±
WELL 23HU
TUG HILL OPERATING**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 25851 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
sfsww.com

NO.	Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Deed Book/Page	
✓ 1	10*31241	3-19-76	A	JAMES R WAYT, ET AL	729	40
✓ 2	**FORCE POOL**	3-19-75	B	KATHERINE ZOGG OLIVER	663	449
✓ 3	10*17925	3-18-1	C	BOUNTY MINERALS LLC	928	393
✓ 4	**FORCE POOL**	3-14-18	D	KEVIN R. EVANS	1008	561
✓ 5	10*21067	3-14-17	E	WILLIS WAYNE HOWARD AND BETH A. HOWARD, ET AL	959	295
✓ 6	10*17925	3-18-8	F	BOUNTY MINERALS LLC	928	393
✓ 7	10*17567	3-14-19	G	NEIL J NEWMAN AND DORIS D NEWMAN	916	127
✓ 8	10*25584	3-18-10	H	JOYCE A AND RANDALL COLE, WILLIS AND BETH HOWARD, GEORGE AND BARBARA HOWARD	916	99
9	**FORCE POOL**	3-18-17	I	EGT PRODUCTION CO, ET AL	N/A	N/A
10	**FORCE POOL**	3-18-6	J	EGT PRODUCTION CO., ET AL	1065	540
11	**FORCE POOL**	3-18-12	K	EGT PRODUCTION CO., ET AL	1065	540
12	**FORCE POOL**	3-18-13	L	EGT PRODUCTION CO., ET AL	1065	540
✓ 13	10*21599	3-18-16	M	REBECCA A HARPER, ET AL	959	297
✓ 14	10*31115	3-18-15	N	CNX GAS COMPANY LLC	1098	570
15	10*15995	3-18-14.1	O	JEFFREY L CUMPTON AND TAMMY S CUMPTON, ET AL	953	280
16	10*29880	7-2-1	P	OLIVIA S ALLEN AND TIM CALLEN, ET AL	1103	537
17	10*23820	7-2-12	Q	WILLIAM E PARSONS AND NANCY L PARSONS	1011	486
18	10*23820	7-2-12.1	R	WILLIAM E PARSONS AND NANCY L PARSONS	1011	486
19	10*24122	7-2-12.2	S	RICHARD L PARSONS AND PEGGY S PARSONS	1021	144
20	**FORCE POOL**	7-2-2	T	NOBLE MARCELLUS LP, C/O FALCON MINERALS CORPORATION, ET AL	N/A	N/A
21	10*23820	7-2-17	U	WILLIAM E PARSONS AND NANCY L PARSONS	1011	486
22	10*23820	7-2-11	V	WILLIAM E PARSONS AND NANCY L PARSONS	1011	486
23	10*23820	7-2-18	W	WILLIAM E PARSONS AND NANCY L PARSONS	1011	486
✓ 24	10*31114	7-2-19	X	CNX GAS COMPANY LLC	1098	627
25	10*26711	7-2-23	Y	CNX GAS COMPANY LLC	1074	593

FILE NO. 9026P23HUR3.dwg
BRECKENRIDGE S-23HU-REV4

DATE MAY 3, 2021

REVISED 7-15-2021, 8-25-2021, 11-8-2021

OPERATORS WELL NO. BRECKENRIDGE S-23HU

API WELL NO. 47 — 051 — 02402
STATE COUNTY PERMIT



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



P.S.
677

Gregory A. Smith

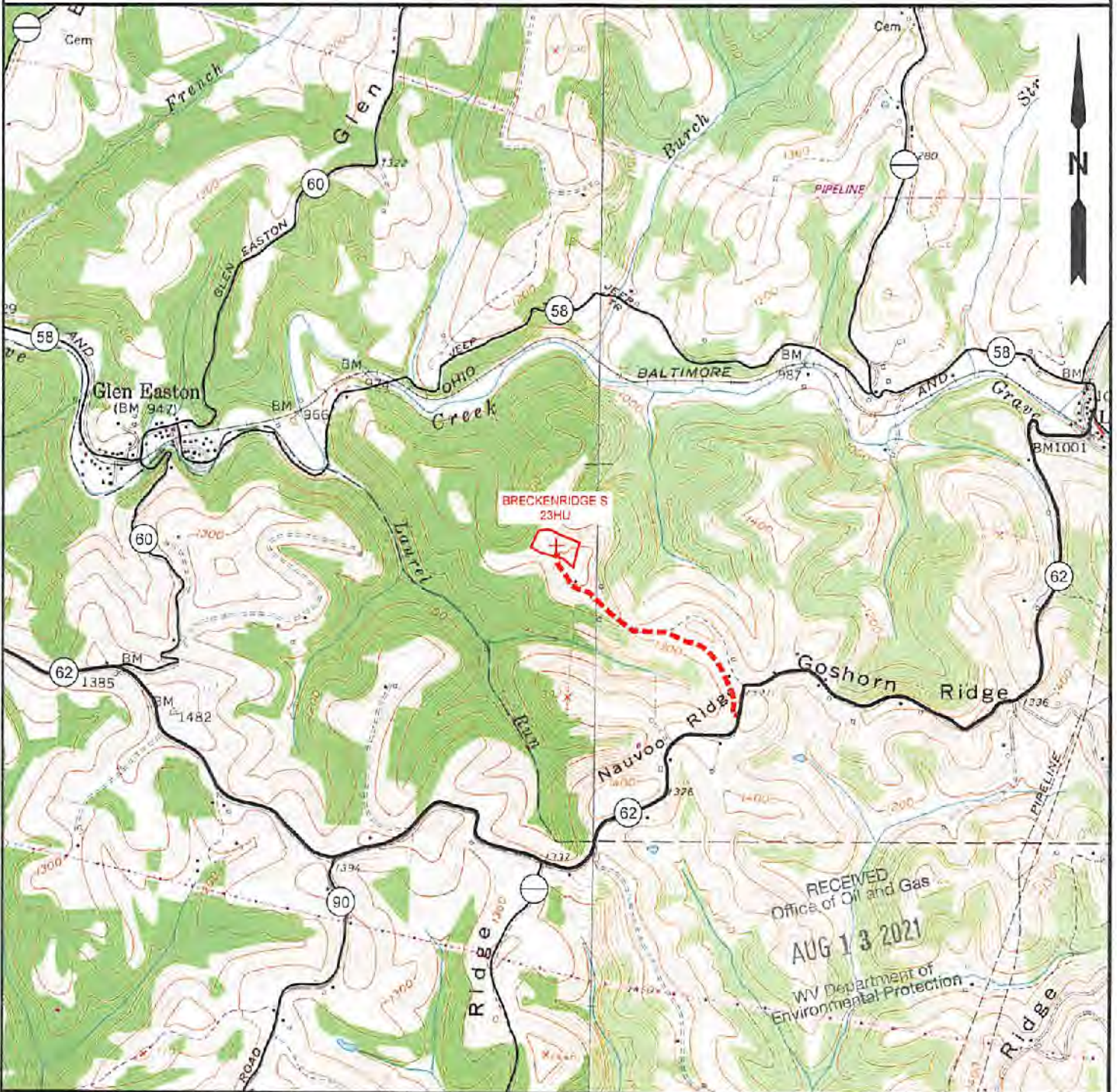
WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

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

COUNTY NAME

PERMIT

PROPOSED BRECKENRIDGE S - 23HU



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

LAT: 39.829865
LON: -80.573724
LOCATED: S 88°42'18" E AT 14,928.72' FROM THE CENTER OF BRECKENRIDGE N WELL PAD LOCATION.

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 204.462.5634
1412 Kinawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 26801 | 304.255.5296
slswv.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	CAMERON	380 SOUTHPOINTE BLVD	
		SUITE 200	
		CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	9026	04/08/2021	1" = 2000'

**TUG HILL
OPERATING**

11/19/2021