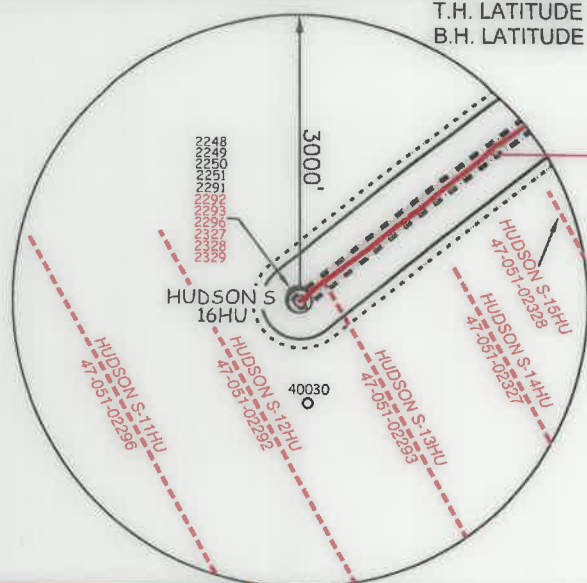


**HUDSON S LEASE
UTICA UNIT - 591.18 AC ±
WELL 16HU
TUG HILL OPERATING**

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-2-9.3	RAYMOND E. & CINDY WHITE, ET AL	1.008
9-3-1.1	CONSOLIDATION COAL CO.	5.00
9-3-1.2	CONSOLIDATION COAL CO.	1.00
9-3-1.3	CNX LAND CO. LLC	2.245
9-3-2.2	JOHN W. & RACHEL A. HOLPP	0.483
9-3-4.3	JOHN W. & RACHEL A. HOLPP	0.870
9-3-4.4	JIM & GINGER REGIEC	1.004
9-3-6.1	JOSEPH L. MILETO, II	1.0468
9-3-18.2	RAYMOND E. & CINDY WHITE, ET AL	2.103
9-3-18.3	RAYMOND & CINDY WHITE	0.086
9-3-19	CNX LAND CO. LLC	0.5
9-5-10	ROBERT J. & MELINDA J. WHITE	27.957
9-5-10.1	CNX LAND CO. LLC	8.453
9-8-5.1	CNX LAND CO. LLC	1.040
9-8-5.2	CNX LAND CO. LLC	4.586
9-8-6.1	MARK E. WOOD & SUNNI H. HARTLEY	1.423



T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	JOHN W. & RACHEL A. HOLPP	9-3-2.5	56.259
C	STEPHEN W. JOHNSON	9-3-2.3	0.591
D	KENNETH F. LIGHTNER, ET UX	9-3-2.1	0.940
E	JAMES & GINGER REGIEC	9-3-2	29.49
F	JAMES & GINGER REGIEC	9-3-4.7	25.025
G	LISA A. MOWRY	9-3-3	68.30
H	JIM & GINGER REGIEC	9-3-4.4	1.044
I	GRANT M. & MALISSA D. CARTER	9-3-1.5	50.543
J	GRANT M. & MALISSA D. CARTER	9-3-4	7.507
K	GRANT M. & MALISSA D. CARTER	9-3-4.2	0.720
L	DAVID E. WEST, ET UX	9-3-4.6	12.035
M	RAYMOND E. & CINDY L. WHITE	9-3-20	127.00
N	DANIEL WEST, ET UX	9-3-4.1	0.986
O	JOHN & RACHEL HOLPP	9-3-4.3	0.870
P	JOSEPH L. MILETO II	9-3-6.1	1.0468
Q	ALVIN D. & CAROL D. BARRETT	9-3-6	29.9702
R	LLOYD ANDREW BEE, ET UX	9-3-18.1	1.010
S	LLOYD ANDREW BEE, ET UX	9-3-18	19.921
T	ALVIN D. & CAROL D. BARRETT	9-3-7	27.19
U	CNX LAND LLC	9-3-17	77.66
V	KENNETH L. & CAROL J. NEELY - TOD	9-8-7	8.613
W	CNX LAND LLC	9-8-6	27.596
X	LARRY S. NEELY	9-8-7.1	76.055
Y	JAMES RICHARD BLAKE, ET UX	9-8-9	42.49
Z	JAMES RICHARD BLAKE, ET UX	9-8-8	49.86
AA	GLEN G. GORCZYCA	9-9-6	25.12
BB	MARY LOU RUBINI, ET AL	9-9-4	268.39
CC	JOSEPH B. & JUDITH PATRELLO	9-9-9.1	149.924
DD	MARVIN D. & ADA C. DOBBS (LIFE) ET AL	9-9-5	76.25
EE	MARTIN DAVIS	9-9-10	6.00
FF	GARY W. MORRIS	9-9-12	54.74
GG	GARY W. MORRIS	9-9-11	14.00
HH	DANNY R. & FRANCES V. KERNS ESTATE	9-9-14	48.308
II	DANNY R. & FRANCES V. KERNS ESTATE	7-1-3	58.00
JJ	DANNY R. & FRANCES V. KERNS ESTATE	7-8-1	27.00
KK	DANNY R. & FRANCES V. KERNS ESTATE	7-8-2	94.00
LL	GEO A. BURRIS	7-8-14	95.44
MM	BLAINE E. STERN, JR.	7-8-13	104.92
NN	BLAINE E. STERN, JR.	7-8-11	60.62
OO	CONSOLIDATION COAL COMPANY	7-1-4	52.00

AS DRILLED COORDINATES FOR WELL NO. 16HU

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

NAD'83 S.P.C. (FT)	N	E
NAD'83 S.P.C. (FT)	N 486,090.76	E 1,639,175.98
NAD'83 GEO.	LAT-(N) 39.828663	LONG-(W) 80.672643
NAD'83 UTM (M)	N 4,408,792.03	E 528,012.84

LANDING POINT

NAD'83 S.P.C. (FT)	N	E
NAD'83 S.P.C. (FT)	N 487,899.8	E 1,642,878.8
NAD'83 GEO.	LAT-(N) 39.831915	LONG-(W) 80.663464
NAD'83 UTM (M)	N 4,409,362.0	E 529,131.7

BOTTOM HOLE

NAD'83 S.P.C. (FT)	N	E
NAD'83 S.P.C. (FT)	N 472,556.2	E 1,651,348.6
NAD'83 GEO.	LAT-(N) 39.791937	LONG-(W) 80.628698
NAD'83 UTM (M)	N 4,404,730.6	E 531,790.2

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

NAD'83 S.P.C. (FT)	N	E
NAD'83 S.P.C. (FT)	N 486,090.76	E 1,639,175.98
NAD'83 GEO.	LAT-(N) 39.828663	LONG-(W) 80.672643
NAD'83 UTM (M)	N 4,408,792.03	E 528,012.84

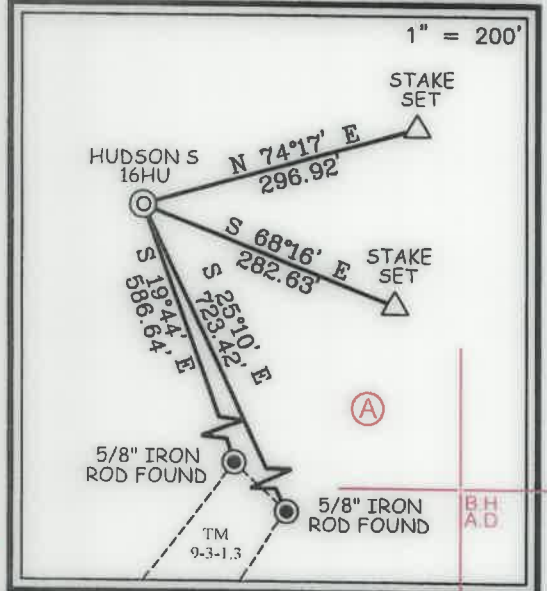
LANDING POINT

NAD'83 S.P.C. (FT)	N	E
NAD'83 S.P.C. (FT)	N 488,000.2	E 1,642,809.7
NAD'83 GEO.	LAT-(N) 39.834034	LONG-(W) 80.659794
NAD'83 UTM (M)	N 4,409,392.03	E 529,110.1

BOTTOM HOLE

NAD'83 S.P.C. (FT)	N	E
NAD'83 S.P.C. (FT)	N 472,556.1	E 1,651,353.5
NAD'83 GEO.	LAT-(N) 39.791937	LONG-(W) 80.628681
NAD'83 UTM (M)	N 4,404,730.6	E 531,791.7

REFERENCES



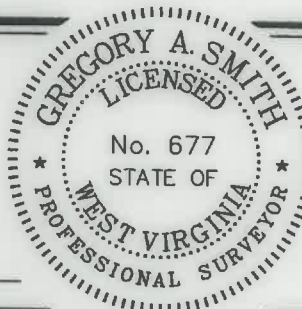
NOTES ON SURVEY

- 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 ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF HUDSON S-16HU (47-051-02329) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-11HU (47-051-02296), HUDSON S-12HU (47-051-02292), HUDSON S-13HU (47-051-02293), HUDSON S-14HU (47-051-02327), HUDSON S-15HU (47-051-02328).
- MINIMUM OFFSET SPACING REQUIREMENTS EXEMPTED BY WAIVER WITH THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS AND OFFSET LEASEHOLDER AGREEMENTS AS PROVIDED BY TUG HILL OPERATING.
- PLAT UPDATED TO SHOW AS DRILLED PATH.
- AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.

12 Vanhook Drive | P.O. Box 750 | Glenville, WV 26034 | 800-462-5854
1812 Kanawha Boulevard, East | Charleston, WV 25301 | 804-546-3957
254 East Baltimore Express | Berkeley, WV 25801 | 804-255-8276
sllsv.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 SEPTEMBER 30, 20 22
REVISED _____, 20 ____
OPERATORS WELL NO. HUDSON S-16HU
API WELL NO. 47 - 051 - 02329
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P16HUAD.dwg
HUDSON S-16HU REV7
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 X INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP X SHALLOW _____

LOCATION: GROUND = 1,366.80' ELEVATION PROPOSED = 1,344.81' WATERSHED HOT HOLLOW OF GRAVE CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE 106.935±

PROPOSED WORK: 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: 12,001' / TMD: 30,760'

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

COUNTY NAME PERMIT

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

**HUDSON S LEASE
UTICA UNIT - 591.18 AC±
WELL 16HU
TUG HILL OPERATING**

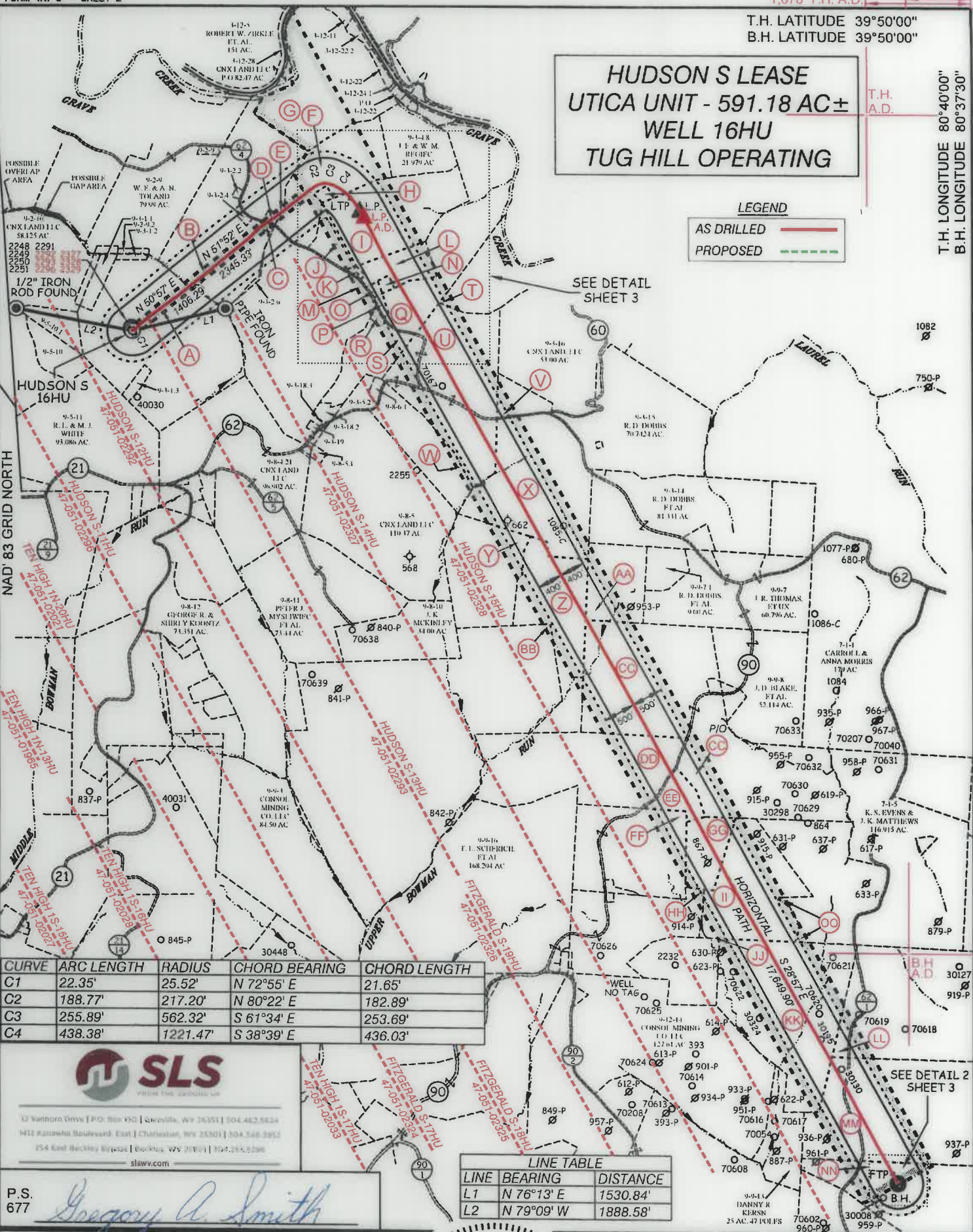
T.H. A.D.

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

LEGEND

AS DRILLED ———
PROPOSED - - - - -

SEE DETAIL SHEET 3



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	22.35'	25.52'	N 72°55' E	21.65'
C2	188.77'	217.20'	N 80°22' E	182.89'
C3	255.89'	562.32'	S 61°34' E	253.69'
C4	438.38'	1221.47'	S 38°39' E	436.03'

SLS
FROM THE EXPERTS UP

12 Vinton Drive | P.O. Box 950 | Greenville, WV 26351 | 504.462.5824
 1412 Kanawha Boulevard East | Charleston, WV 25301 | 304.546.3952
 254 Ford Beckley Express | Beckley, WV 26011 | 304.285.6296

slswv.com

P.S. 677
Gregory A. Smith

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 76°13' E	1530.84'
L2	N 79°09' W	1888.58'



(+) 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. 8911P16HUAD.dwg
 HUDSON S-16HU REV7
 DATE SEPTEMBER 30, 2022
 REVISED _____, 20____
 OPERATORS WELL NO. HUDSON S-16HU
 API WELL NO. **47 - 051 - 02329**
 NO. STATE COUNTY PERMIT

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

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

10/14/2022

COUNTY NAME
PERMIT

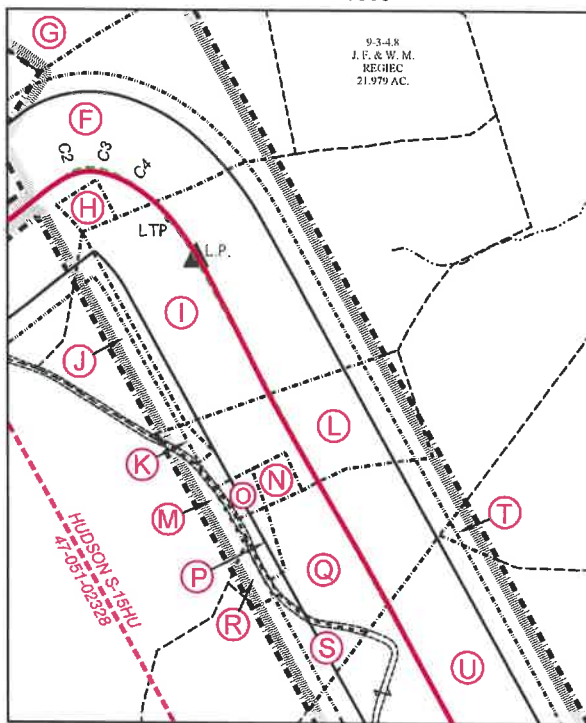
**HUDSON S LEASE
UTICA UNIT - 591.18 AC±
WELL 16HU
TUG HILL OPERATING**



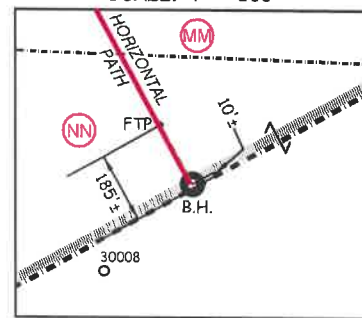
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvv.com

NO.	Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*26041	9-3-1	A	FREDDIE C WHITE AND VIOLET L WHITE, ET AL	728	527
2	10*28190	9-3-2.5	B	J RUSSELL LOGSDON, ET AL	1068	309
3	10*28190	9-3-2.3	C	J RUSSELL LOGSDON, ET AL	1068	309
4	10*28190	9-3-2.1	D	J RUSSELL LOGSDON, ET AL	1068	309
5	10*28190	9-3-2	E	J RUSSELL LOGSDON, ET AL	1068	309
6	10*31219	9-3-4.7	F	DONNA FAYE EARNEST, ET AL	690	341
7	10*18339	9-3-3	G	RESOURCE MINERALS HEADWATER I LP	940	448
8	10*31219	9-3-4.4	H	DONNA FAYE EARNEST, ET AL	690	341
9	10*31219	9-3-4.5	I	DONNA FAYE EARNEST, ET AL	690	341
10	10*31219	9-3-4	J	DONNA FAYE EARNEST, ET AL	690	341
11	10*31219	9-3-4.2	K	DONNA FAYE EARNEST, ET AL	690	341
12	10*31219	9-3-4.6	L	DONNA FAYE EARNEST, ET AL	690	341
13	10*21345	9-3-20	M	AARON PARRY SR AND JANA PARRY TRUSTEES AARON PARRY SR & JANA PARRY REV LIV TRUS	957	280
14	10*31219	9-3-4.1	N	DONNA FAYE EARNEST, ET AL	690	341
15	10*31219	9-3-4.3	O	DONNA FAYE EARNEST, ET AL	690	341
16	10*28454	9-3-6.1	P	TRAVIS J POSTLETHWAIT	1072	379
17	10*31225	9-3-6	Q	ALVIN D. BARRETT	727	112
18	10*21412	9-3-18.1	R	GARY DOBBS AND SUSAN DOBBS	957	270
19	10*21412	9-3-18	S	GARY DOBBS AND SUSAN DOBBS	957	270
20	NA	9-3-7	T	ALVIN D. BARRETT	726	464
21	10*21602	9-3-17	U	CAROL STACY SAUNDERS, ET AL	959	289
22	10*28092	9-8-7	V	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, ET AL	1073	370
23	10*21602	9-8-6	W	CAROL STACY SAUNDERS, ET AL	959	289
24	10*28092	9-8-7.1	X	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, ET AL	1073	370
25	10*22055	9-8-9	Y	STONE HILL MINERALS HOLDINGS LLC, ET AL	1010	226
26	10*22055	9-8-8	Z	STONE HILL MINERALS HOLDINGS LLC, ET AL	1010	226
27	10*19634	9-9-6	AA	JANICE L PIETERSE, ET AL	960	153
28	10*31001	9-9-4	BB	ERIC KATZMEYER, ET AL	791	226
29	10*22615	9-9-9.1	CC	DAVID D MURRAY AND MARY ANN MURRAY, ET AL	965	591
30	10*28244	9-9-5	DD	MICHAEL D DOBBS AND STEPHANIE J DOBBS, ET AL	1068	569
31	10*27304	9-9-10	EE	H3 LLC	1058	559
32	10*21859	9-9-12	FF	GARY WAYNE MORRIS	960	192
33	10*21859	9-9-11	GG	GARY WAYNE MORRIS	960	192
34	10*28697	9-9-14	HH	DANNY S KERNS, ET AL	1075	134
35	10*17969	7-1-3	II	BOUNTY MINERALS LLC, ET AL	928	424
36	10*25518	7-8-1	JJ	DANNY S KERNS, ET AL	1010	532
37	10*25518	7-8-2	KK	DANNY S KERNS, ET AL	1010	532
38	10*25508	7-8-14	LL	THE AMY M TOUPS FAMILY TRUST OF 2013 DATED JUNE 14, 2013	827	119
39	10*25501	7-8-13	MM	AMP FUND III LP, ET AL	925	459
40	10*23026	7-8-11	NN	BLAINE E STERN JR AND CONNIE J STERN	977	339
41	10*26562	7-1-4	OO	MARTHA SUE FORBES	1038	510

DETAIL
SCALE: 1" = 1000'



DETAIL 2
SCALE: 1" = 500'



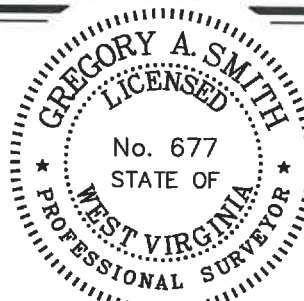
FILE NO. 8911P16HUAD.dwg
HUDSON S-16HU REV7

DATE SEPTEMBER 30, 2022

REVISED _____, 20__

OPERATORS WELL NO. HUDSON S-16HU

API WELL NO. 47 — 051 — 02329
STATE COUNTY PERMIT



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



10/14/2022

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

COUNTY NAME
PERMIT