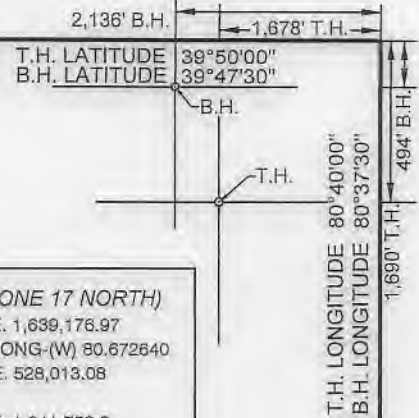


**HUDSON S LEASE
UTICA UNIT - 581.83 AC±
WELL 15HU
TUG HILL OPERATING**



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	JOHN W. & RACHEL A. HOLPP	9-3-2.4	0.618
D	JAMES & GINGER REGIEC	9-3-2	29.49
E	KENNETH F. LIGHTNER, ET UX	9-3-2.1	0.940
F	STEPHEN W. JOHNSON	9-3-2.3	0.591
G	RAYMOND E. & CINDY L. WHITE	9-3-2.6	0.619
H	JAMES & GINGER REGIEC	9-3-4.7	25.025
I	GRANT M. & MALISSA D. CARTER	9-3-4	7.507
J	RAYMOND E. & CINDY L. WHITE	9-3-20	127.00
K	GRANT M. & MALISSA D. CARTER	9-3-4.2	0.720
L	LLOYD ANDREW BEE, ET UX	9-3-18.1	1.010
M	LLOYD ANDREW BEE, ET UX	9-3-18	19.921
N	RAYMOND E. & CINDY L. WHITE	9-3-18.2	2.103
O	CNX LAND RESOURCES, INC.	9-8-5.2	4.586
P	MARK E. WOOD & SUNNI H. HARTLEY	9-8-6.1	1.423
Q	CNX LAND LLC	9-3-17	77.66
R	CNX LAND LLC	9-8-6	27.596
S	CNX LAND LLC	9-8-5	110.37
T	LARRY S. NEELY	9-8-7.1	76.055
U	JAMES RICHARD BLAKE, ET UX	9-8-9	42.49
V	JUDY KAY MCKINLEY	9-8-10	34.00
W	JAMES RICHARD BLAKE, ET UX	9-8-8	49.86
X	MARY LOU RUBINI, ET AL	9-9-4	268.39
Y	JOSEPH B. & JUDITH PATRELLO	9-9-9.1	149.924
Z	MARVIN D. & ADA C. DOBBS (LIFE), ET AL	9-9-5	76.25
AA	TODD L. SCHERICH, ET AL	9-9-16	168.204
BB	GARY W. MORRIS	9-9-12	54.74
CC	JESSICA R. & DAVID A. II DEMPFWOLF	9-9-12.1	1.26
DD	AMERICAN ENERGY-MARCELLUS LLC	9-9-14.1	0.40
EE	GARY W. MORRIS	9-9-11	14.00
FF	DANNY R. & FRANCES V. KERNS ESTATE	9-9-14	48.308
GG	DANNY R. & FRANCES V. KERNS ESTATE	7-1-3	58.00
HH	DANNY R. & FRANCES V. KERNS ESTATE	7-8-1	27.00
II	CONSOL MINING CO., LLC	9-12-14	127.61
JJ	DANNY R. & FRANCES V. KERNS ESTATE	7-8-2	94.00
KK	DANNY R. & FRANCES V. KERNS ESTATE	9-9-13	25 AC, 47 P.
LL	BLAINE E. STERN, JR.	7-8-13	104.92
MM	BLAINE E. STERN, JR.	7-8-11	60.62
NN	JOHN ALFRED & LEORA JEAN DOBBS - LIFE	7-8-4	65.63
OO	BLAINE E. STERN, JR.	7-8-12	33.00
PP	JOHN W. & RACHEL A. HOLPP	9-3-2.2	0.483

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

NAD'83 S.P.C.(FT) N. 486,102.89 E. 1,639,176.97
 NAD'83 GEO. LAT-(N) 39.828695 LONG-(W) 80.672640
 NAD'83 UTM (M) N. 4,408,795.58 E. 528,013.08

LANDING POINT

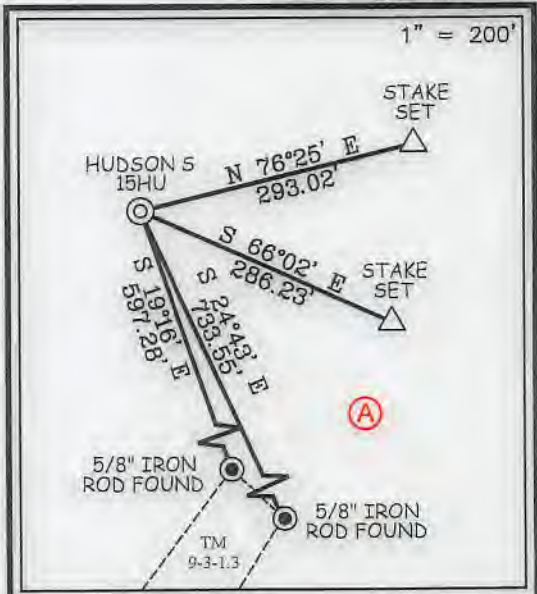
NAD'83 S.P.C.(FT) N. 487,280.6 E. 1,641,758.2
 NAD'83 GEO. LAT-(N) 39.831966 LONG-(W) 80.663503
 NAD'83 UTM (M) N. 4,409,161.6 E. 528,793.6

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 471,978.1 E. 1,650,244.3
 NAD'83 GEO. LAT-(N) 39.790312 LONG-(W) 80.632602
 NAD'83 UTM (M) N. 4,404,548.9 E. 531,456.7

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-3-9.2	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
9-3-4.3	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
9-3-18.3	RAYMOND & CINDY WHITE	0.086
9-3-19	CNX LAND CO. LLC	0.5
9-5-10	ROBERT J. & MELINDA J. WHITE	27.957
9-8-5.1	CNX LAND CO. LLC	1.040

REFERENCES

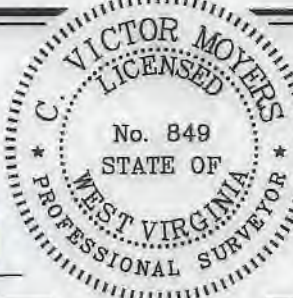


NOTES ON SURVEY

- 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-15HU (47-051-02328) 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-16HU (47-051-02329), FITZGERALD S-19HU (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.



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 | 304.285.5296
 slsvw.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. C. Victor Moyers
 849

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE APRIL 1, 20 20
 REVISED 04-17-20, 07-14-20, 07/15/20, 07-16-20, 08-12-20, 09-16-20, 09-22-20, 12-22-20

OPERATORS WELL NO. HUDSON S-15HU
 API WELL NO. 47 - 051 - 02328
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P15HUR9.dwg
HUDSON S-15HU REV6
 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 INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP 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: 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: 11,990' / TMD: 30,463'

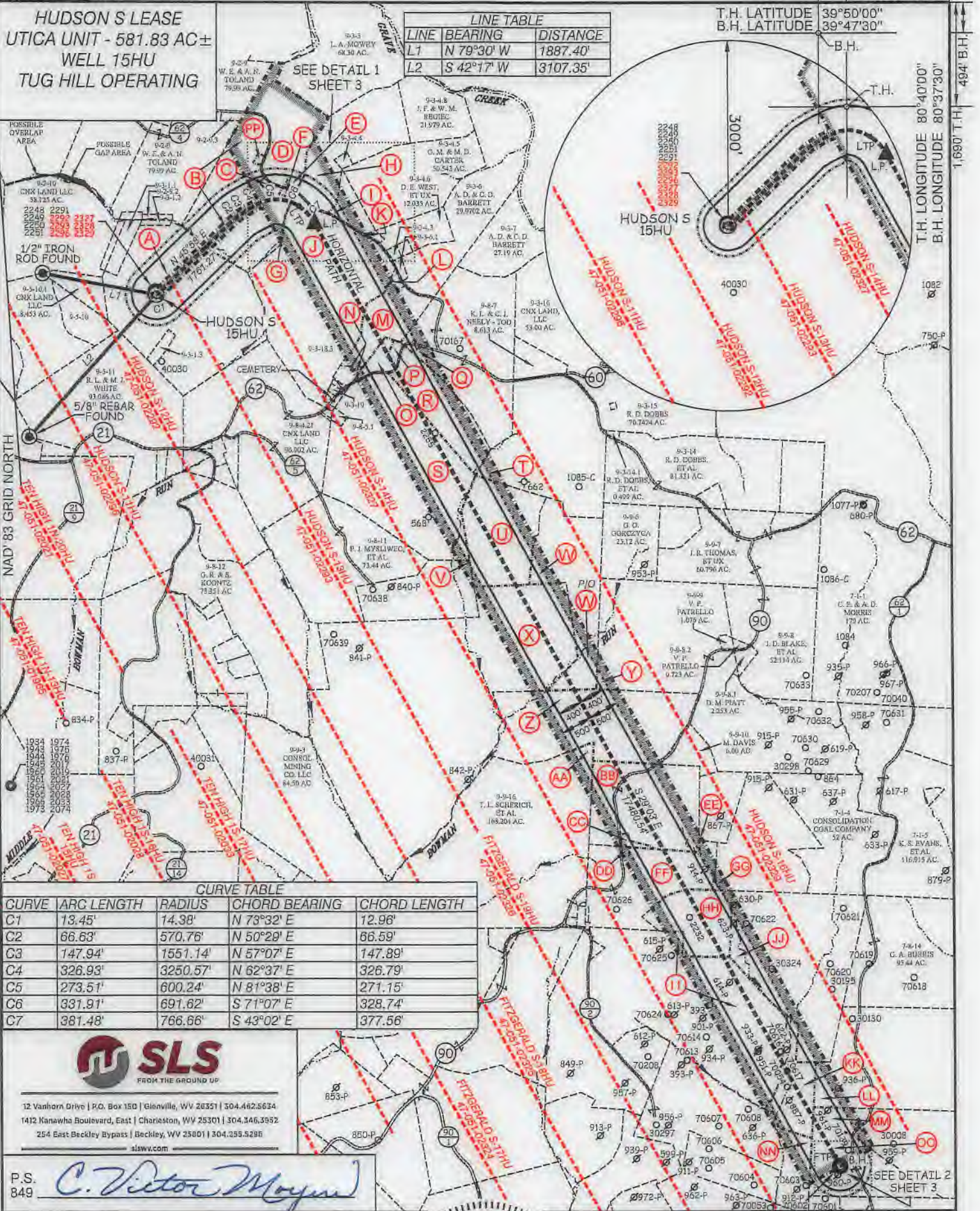
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME
 PERMIT

**HUDSON S LEASE
UTICA UNIT - 581.83 AC ±
WELL 15HU
TUG HILL OPERATING**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 79°30' W	1887.40'
L2	S 42°17' W	3107.35'

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"



CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	13.45'	14.38'	N 73°32' E	12.96'
C2	66.63'	570.76'	N 50°29' E	66.59'
C3	147.94'	1551.14'	N 57°07' E	147.89'
C4	326.93'	3250.57'	N 62°37' E	326.79'
C5	273.51'	600.24'	N 81°38' E	271.15'
C6	331.91'	691.62'	S 71°07' E	328.74'
C7	381.48'	766.66'	S 43°02' E	377.56'



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295
slaw.com

P.S. 849 *C. Victor Moyers*



(+) 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. 8911P15HUR9.dwg
HUDSON S-15HU REV6
DATE APRIL 1, 2020
REVISED 04-17-20, 07-14-20, 07-15-20, 07-16-20, 08-12-20, 09-16-20, 09-22-20, 12-22-20
OPERATORS WELL NO. HUDSON S-15HU
API WELL NO. 47 — 051 — 02328
NO. STATE COUNTY PERMIT

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



DIANNA STAMPER
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

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

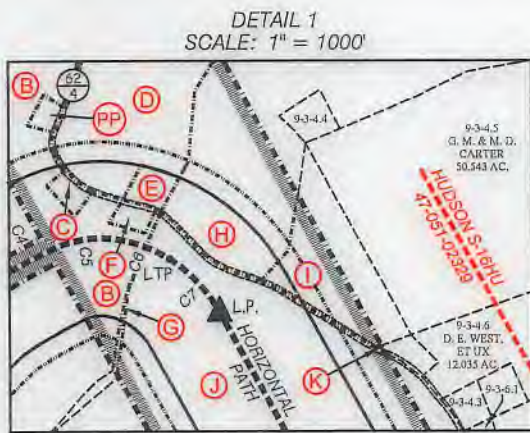
COUNTY NAME PERMIT

**HUDSON S LEASE
UTICA UNIT - 581.83 AC±
WELL 15HU
TUG HILL OPERATING**



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254 East Beckley Bypass | Beckley, WV 25901 | 304.255.5296
slswv.com

NO.	Lease ID	Parcel	Tag	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	9-3-2.4	C	J RUSSELL LOGSDON, ET AL	1068	309
4	10*28190	9-3-2	D	J RUSSELL LOGSDON, ET AL	1068	309
5	10*28190	9-3-2.1	E	J RUSSELL LOGSDON, ET AL	1068	309
6	10*28190	9-3-2.3	F	J RUSSELL LOGSDON, ET AL	1068	309
7	10*28190	9-3-2.6	G	J RUSSELL LOGSDON, ET AL	1068	309
8	NA	9-3-4.7	H	WILLIAM N. LOGSDON, ET AL	690	347
9	NA	9-3-4	I	WILLIAM N. LOGSDON, ET AL	690	347
10	10*21345	9-3-20	J	AARON PARRY SR AND JANA PARRY TRUSTEES AARON PARRY SR & JANA PARRY REV LIV TRUS, ET AL	957	280
11	NA	9-3-4.2	K	WILLIAM N. LOGSDON, ET AL	690	347
12	10*21412	9-3-18.1	L	GARY DOBBS AND SUSAN DOBBS, ET AL	957	270
13	10*21412	9-3-18	M	GARY DOBBS AND SUSAN DOBBS, ET AL	957	270
14	10*21412	9-3-18.2	N	GARY DOBBS AND SUSAN DOBBS, ET AL	957	270
15	10*21602	9-8-5.2	O	CAROL STACY SAUNDERS, ET AL	959	289
16	10*21602	9-8-6.1	P	CAROL STACY SAUNDERS, ET AL	959	289
17	10*21602	9-3-17	Q	CAROL STACY SAUNDERS, ET AL	959	289
18	10*21602	9-8-6	R	CAROL STACY SAUNDERS, ET AL	959	289
19	10*23739	9-8-5	S	APPALACHIAN BASIN MINERALS LP, ET AL	1011	538
20	10*28092	9-8-7.1	T	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	1073	370
21	10*22055	9-8-9	U	STONE HILL MINERALS HOLDINGS LLC, ET AL	1010	226
22	10*21246	9-8-10	V	THE ESTATE OF THERESA M ROGERSON CHARLES J ROGERSON EXECUTOR	952	422
23	10*22055	9-8-8	W	STONE HILL MINERALS HOLDINGS LLC, ET AL	1010	226
24	10*31001	9-9-4	X	ERIC KATZMEYER, ET AL	791	226
25	10*22615	9-9-9.1	Y	DAVID D MURRAY AND MARY ANN MURRAY, ET AL	965	591
26	10*28244	9-9-5	Z	MICHAEL D DOBBS AND STEPHANIE J DOBBS, ET AL	1068	569
27	10*19987	9-9-16	AA	LESLEY D BALLA, ET AL	955	103
28	10*21859	9-9-12	BB	GARY WAYNE MORRIS	960	192
29	10*28170	9-9-12.1	CC	DAVID ALAN DEMPEWOLF II AND JESSICA R DEMPEWOLF	1067	391
30	10*28697	9-9-14.1	DD	DANNY S KERNS, ET AL, ET AL	1075	134
31	10*21859	9-9-11	EE	GARY WAYNE MORRIS	960	192
32	10*28697	9-9-14	FF	DANNY S KERNS, ET AL	1075	134
33	**	7-1-3	GG	SUSAN SHRIVER, ET AL	NA	NA
34	10*25518	7-8-1	HH	DANNY S KERNS, ET AL	1010	532
35	10*18339	9-12-14	II	RESOURCE MINERALS HEADWATER I LP, ET AL	940	448
36	10*25518	7-8-2	JJ	DANNY S KERNS, ET AL	1010	532
37	10*25518	9-9-13	KK	DANNY S KERNS, ET AL	1010	532
38	10*25501	7-8-13	LL	AMP FUND III LP, ET AL	925	459
39	10*23026	7-8-11	MM	BLAINE E STERN JR AND CONNIE J STERN	977	339
40	10*18988	7-8-4	NN	MICHAEL R DOBBS AND LEANNE DOBBS, ET AL	957	307
41	10*23026	7-8-12	OO	BLAINE E STERN JR AND CONNIE J STERN	977	339
42	10*28190	9-3-2.2	PP	J RUSSELL LOGSDON, ET AL	1068	309



FILE NO. 8911P15HUR9.dwg
HUDSON S-15HU REV6

DATE APRIL 1, 20 20
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OPERATORS WELL NO. HUDSON S-15HU

API WELL NO. 47 — 051 — 02328
STATE COUNTY PERMIT



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

P.S. C. Victor Moyers
849

WELL OPERATOR TUG HILL OPERATING, LLC
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DESIGNATED AGENT DIANNA STAMPER
ADDRESS CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

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