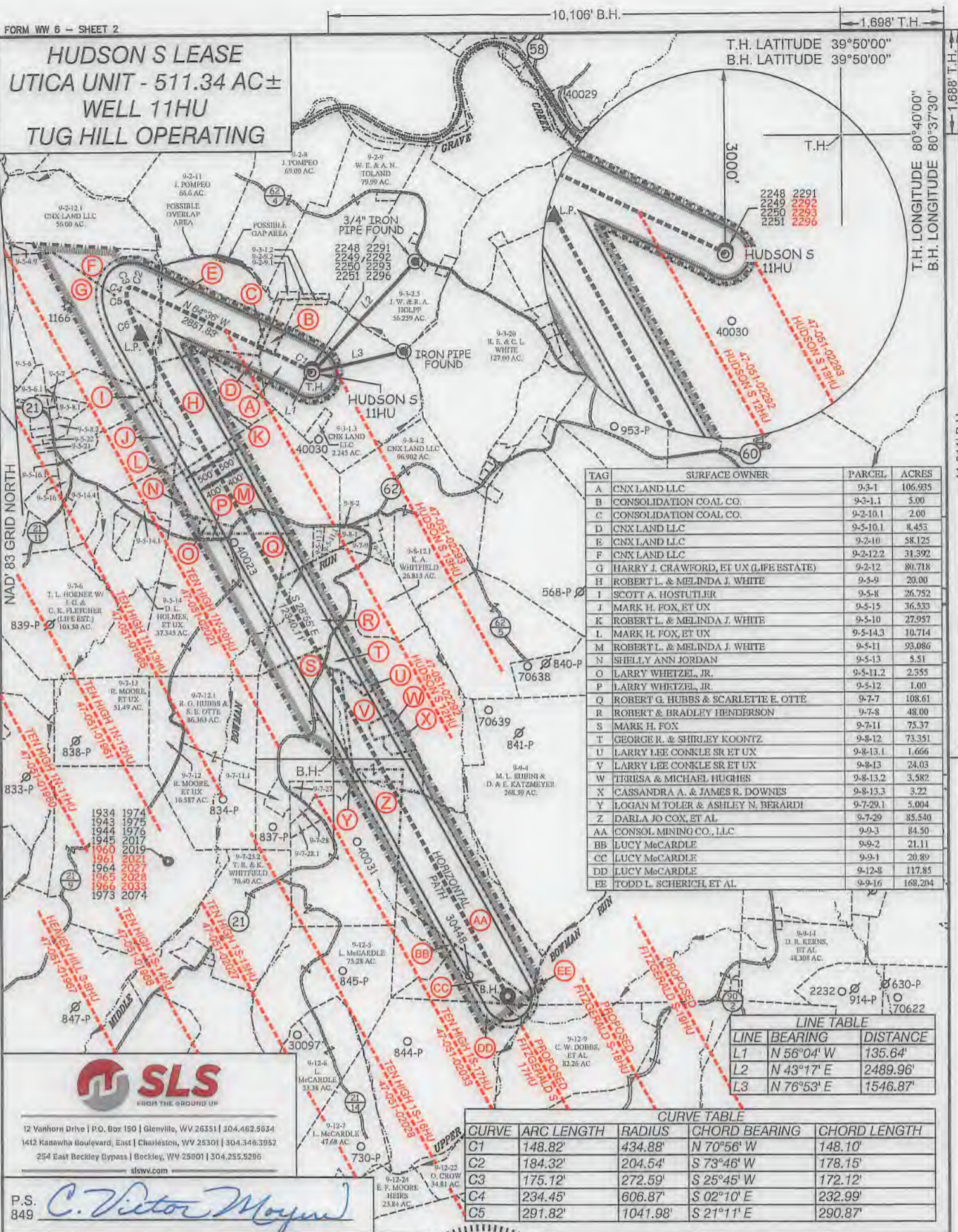


**HUDSON S LEASE
UTICA UNIT - 511.34 AC ±
WELL 11HU
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-3-1.1	5.00
C	CONSOLIDATION COAL CO.	9-2-10.1	2.00
D	CNX LAND LLC	9-5-10.1	8.453
E	CNX LAND LLC	9-2-10	58.125
F	CNX LAND LLC	9-2-12.2	31.392
G	HARRY J. CRAWFORD, ET UX (LIFE ESTATE)	9-2-12	80.718
H	ROBERT L. & MELINDA J. WHITE	9-5-9	20.00
I	SCOTT A. HOSTUTLER	9-5-8	26.752
J	MARK H. FOX, ET UX	9-5-15	36.533
K	ROBERT L. & MELINDA J. WHITE	9-5-10	27.957
L	MARK H. FOX, ET UX	9-5-14.3	10.714
M	ROBERT L. & MELINDA J. WHITE	9-5-11	93.086
N	SHELLY ANN JORDAN	9-5-13	5.51
O	LARRY WHETZEL, JR.	9-5-11.2	2.355
P	LARRY WHETZEL, JR.	9-5-12	1.00
Q	ROBERT G. HUBBS & SCARLETT E. OTTE	9-7-7	108.61
R	ROBERT & BRADLEY HENDERSON	9-7-8	48.00
S	MARK H. FOX	9-7-11	75.37
T	GEORGE R. & SHIRLEY KOONTZ	9-8-12	73.351
U	LARRY LEE CONKLE SR ET UX	9-8-13.1	1.666
V	LARRY LEE CONKLE SR ET UX	9-8-13	24.03
W	TERRISA & MICHAEL HUGHES	9-8-13.2	3.582
X	CASSANDRA A. & JAMES R. DOWNES	9-8-13.3	3.22
Y	LOGAN M. TOLER & ASHLEY N. BERARDI	9-7-29.1	5.004
Z	DARLA JO COX, ET AL	9-7-29	85.540
AA	CONSOL MINING CO., LLC	9-9-3	84.50
BB	LUCY McCARDLE	9-9-2	21.11
CC	LUCY McCARDLE	9-9-1	20.89
DD	LUCY McCARDLE	9-12-8	117.85
EE	TODD L. SCHERICH, ET AL	9-9-16	168.204

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 56°04' W	135.64'
L2	N 43°17' E	2489.96'
L3	N 76°53' E	1546.87'

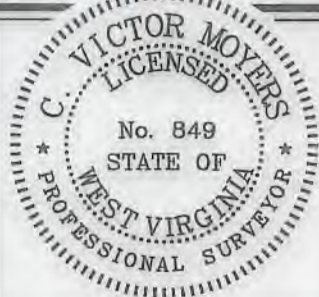
CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	148.82'	434.88'	N 70°56' W	148.10'
C2	184.32'	204.54'	S 73°46' W	178.15'
C3	175.12'	272.59'	S 25°45' W	172.12'
C4	234.45'	606.87'	S 02°10' E	232.99'
C5	291.82'	1041.98'	S 21°11' E	290.87'



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254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295
sfsww.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
- 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)
 NAD83 S.P.C. (FT) N. 486,104.49 E. 1,639,156.22
 NAD83 GEO. LAT-(N) 39.828700 LONG-(W) 80.672714
 NAD83 UTM (M) N. 4,408,796.11 E. 528,006.75
LANDING POINT
 NAD83 S.P.C. (FT) N. 486,741.1 E. 1,636,356.7
 NAD83 GEO. LAT-(N) 39.830347 LONG-(W) 80.682711
 NAD83 UTM (M) N. 4,408,975.8 E. 527,150.6
BOTTOM HOLE
 NAD83 S.P.C. (FT) N. 475,939.5 E. 1,642,323.5
 NAD83 GEO. LAT-(N) 39.800909 LONG-(W) 80.660970
 NAD83 UTM (M) N. 4,405,715.4 E. 529,023.4

SCALE 1" = 2000' FILE NO. 8911P11HUR4.dwg
 HUDSON S-11HU REV2
 DATE AUGUST 23, 2019
 REVISED 10/18/19, 11/07/19, 01/08/20, 01/27/20
 OPERATORS WELL NO. HUDSON S-11HU
 API WELL NO. 47-051-02296
 NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 H6A

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

10,106' B.H. 1,698' T.H. 39°50'00" T.H. LATITUDE 39°50'00" B.H. LATITUDE 80°40'00" T.H. LONGITUDE 80°37'30" B.H. LONGITUDE 11,811' B.H.

**HUDSON S LEASE
UTICA UNIT - 511.34 AC ±
WELL 11HU
TUG HILL OPERATING**

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

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.1	CONSOLIDATION COAL CO.	1.00
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-3-1.2	CONSOLIDATION COAL CO.	1.00
9-5-6	NANCY L. SNYDER (LIFE ESTATE)	82.858
9-5-6.1	JON B. CRAWFORD	4.679
9-5-6.9	CNX LAND CO. LLC	22.39
9-5-7	ME CHURCH	81.5 POLES (6 AC. ASSD)
9-5-8.1	ISACC McKINNEY, ET UX	2.875
9-5-8.2	MISTY CROW W/ ROBERT & ELSIE WHETZEL (LIFE ESTATE)	1.973
9-5-11.1	MARK H. FOX	2.619
9-5-11.3	MARK H. FOX	1.94
9-5-13	SHELLY ANN JORDAN	5.51
9-5-14.1	SAVANNA N & MATTHEW WEST	2.819
9-5-14.4	BETTY R. OTT	10.501
9-5-16	LARRY L. CONKLE, JR.	2.365
9-5-16.1	SCOTT A. HOSTUTLER	0.142
9-5-21	RALPH E. WELLMAN, ET UX	1.00
9-5-22	RALPH E. WELLMAN, ET UX	0.5
9-7-9	CNX LAND CO. LLC	2.00
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-7-11.1	WV DEPT. OF HIGHWAYS	3.63
9-7-27	LOGAN M TOLER & ASHLEY N. BERARDI	1.005
9-7-28	VICTOR & CLAIRE CAMERON	1.983
9-7-28.1	NATHAN WILLIAMS	2.768
9-8-1	CNX LAND CO. LLC	2.908
9-8-2	CNX LAND CO. LLC	6000 SQ. FT.

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

NAD'83 S.P.C.(FT) N. 486,104.49 E. 1,639,156.22
 NAD'83 GEO. LAT-(N) 39.828700 LONG-(W) 80.672714
 NAD'83 UTM (M) N. 4,408,796.11 E. 528,006.75

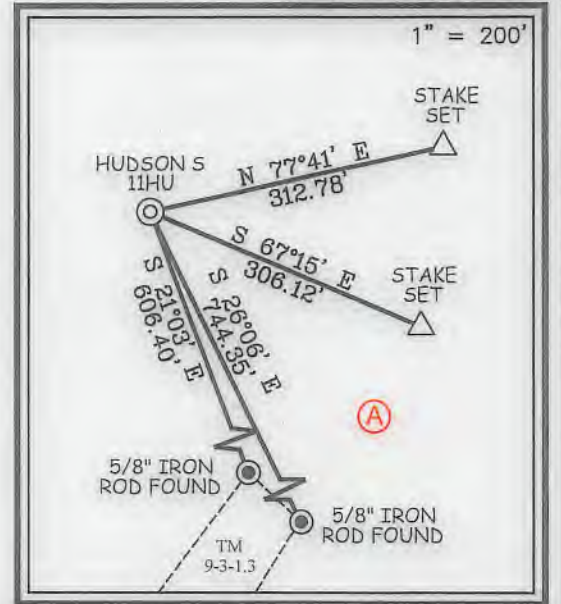
LANDING POINT

NAD'83 S.P.C.(FT) N. 486,741.1 E. 1,636,356.7
 NAD'83 GEO. LAT-(N) 39.830347 LONG-(W) 80.682711
 NAD'83 UTM (M) N. 4,408,975.8 E. 527,150.6

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 475,939.5 E. 1,642,323.5
 NAD'83 GEO. LAT-(N) 39.800909 LONG-(W) 80.660970
 NAD'83 UTM (M) N. 4,405,715.4 E. 529,023.4

REFERENCES



NOTES ON SURVEY

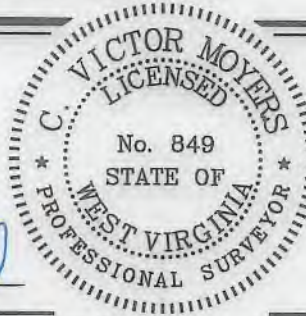
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF HUDSON S-11HU (47-051-02296) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-12HU (47-051-02292), HUDSON S-13HU (47-051-02293), TEN HIGH 1N-13HU (47-051-01965), TEN HIGH 1N-20HU (47-051-02021), TEN HIGH 1S-16HU (47-051-02028), TEN HIGH 1S-17HU (47-051-02033), PROPOSED FITZGERALD S-17HU, PROPOSED FITZGERALD S-18HU, PROPOSED FITZGERALD S-19HU.



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 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsw.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 AUGUST 23, 20 19
 REVISED 10/18/19, 11/07/19, 01/08/20, 01/27/20
 OPERATORS WELL NO. HUDSON S-11HU
 API WELL NO. 47 - 051 - 02296 H6A
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P11HUR4.dwg
 HUDSON S-11HU 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 = 1,370.20' ELEVATION PROPOSED = 1,344.81' WATERSHED 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: 11,901' / TMD: 25,096'

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 - 511.34 AC ±
WELL 11HU
TUG HILL OPERATING**



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com

NO.	Lease ID	Tags	Parcel	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*26041	A	9-3-1	FREDDIE C WHITE AND VIOLET L WHITE, ET AL	728	527
2	10*26047	B	9-3-1.1	ROBERT D BLAKE AND ATHENA LIBERTY BLAKE, ET AL	863	138
3	10*26711	C	9-2-10.1	CNX GAS COMPANY LLC	1039	1
4	10*26001	D	9-5-10.1	FREDDIE C WHITE AND VIOLET L WHITE	655	555
5	10*26001	E	9-2-10	FREDDIE C WHITE AND VIOLET L WHITE	655	555
6	10*26000	F	9-2-12.2	HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL	661	156
7	10*26000	G	9-2-12	HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL	661	156
8	10*26001	H	9-5-9	FREDDIE C WHITE AND VIOLET L WHITE	655	555
9	10*19206	I	9-5-8	SCOTT A HOSTUTLER	724	208
10	10*19005	J	9-5-15	MARK H. FOX AND RETTA J. FOX, HIS WIFE	687	598
11	10*26001	K	9-5-10	FREDDIE C WHITE AND VIOLET L WHITE	655	555
12	10*19005	L	9-5-14.3	MARK H. FOX AND RETTA J. FOX, HIS WIFE	687	598
13	10*24424	M	9-5-11	THE FAYE A SKOEN REVOCABLE TRUST, ET AL	1024	291
14	10*26002	N	9-5-13	GEORGIA JORDAN LIFE ESTATE AND SHELLY ANN JORDAN REMAINDERMAN	687	616
15	10*24424	O	9-5-11.2	THE FAYE A SKOEN REVOCABLE TRUST, ET AL	1024	291
16	10*47051.188.0	P	9-5-12	LARRY J WHETZEL JR	869	216
17	10*15503	Q	9-7-7	ROBERT HUBBS	677	521
18	10*26003	R	9-7-8	ROBERT HENDERSON AND DEBRA HENDERSON, HUSBAND & WIFE, AND BRADLEY HENDERSON	697	215
19	10*47051.094.0	S	9-7-11	MARK H FOX	864	163
20	10*47051.208.0	T	9-8-12	SHIRLEY KOONTZ POA KELLI KOONTZ BENJINE	869	222
21	10*28169	U	9-8-13.1	LARRY L CONKLE AND DONNA D CONKLE, HUSBAND AND WIFE	N/A	N/A
22	10*28169	V	9-8-13	LARRY L CONKLE AND DONNA D CONKLE, HUSBAND AND WIFE	N/A	N/A
23	10*47051.150.1	W	9-8-13.2	MICHAEL J HUGHES & TERESA A HUGHES	866	309
24	10*28169	X	9-8-13.3	LARRY L CONKLE AND DONNA D CONKLE, HUSBAND AND WIFE	N/A	N/A
25	10*15524	Y	9-7-29.1	CAROL J ANDERSON ETAL	901	563
26	10*15524	Z	9-7-29	CAROL J ANDERSON ETAL	901	563
27	10*47051.304.0	AA	9-9-3	UNITED BANK INC	905	5
28	10*23386	BB	9-9-2	UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER	1008	68
29	10*23386	CC	9-9-1	UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER	1008	68
30	10*47051.289.1	DD	9-12-8	JANICE M HIXSON AND HARRY C HIXSON, ET AL	898	461
31	10*19987	EE	9-9-16	LESLEY D BALLA, ET AL	955	103

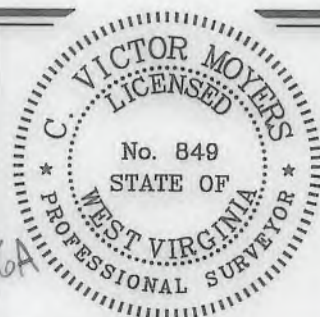
FILE NO. 8911P11HUR4.dwg
HUDSON S-11HU REV2

DATE AUGUST 23, 20 19

REVISED 10/18/19, 11/07/19, 01/08/20, 01/27/20

OPERATORS WELL NO. HUDSON S-11HU

API WELL NO. 47 — 051 — 02296
STATE COUNTY PERMIT



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



P.S.
849

C. Victor Moyers

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

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

COUNTY NAME

PERMIT