

**HUDSON S LEASE
UTICA UNIT - 330.79 AC±
WELL 13HU
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
9-3-19	CNX LAND CO. LLC	45 SQ. RODS & 3280 SQ. FT
9-5-13	SHELLY ANN JORDAN	5.51
9-7-9	CNX LAND CO. LLC	2.00
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-8-1	CNX LAND CO. LLC	P.T. OF 1 AC.
9-8-2	CNX LAND CO. LLC	6000 SQ. FT.
9-8-4.1	CNX LAND RESOURCES, INC.	0.333
9-8-5.1	CNX LAND LLC	1.040

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

NAD'83 S.P.C.(FT)	N. 486,092.49	E. 1,639,154.94
NAD'83 GEO.	LAT-(N) 39.828667	LONG-(W) 80.672718
NAD'83 UTM (M)	N. 4,408,792.45	E. 528,006.42
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 486,294.8	E. 1,639,434.0
NAD'83 GEO.	LAT-(N) 39.829232	LONG-(W) 80.671734
NAD'83 UTM (M)	N. 4,408,855.5	E. 528,090.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,419.6	E. 1,644,360.1
NAD'83 GEO.	LAT-(N) 39.805044	LONG-(W) 80.653789
NAD'83 UTM (M)	N. 4,406,176.7	E. 529,636.4

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-13HU (47-051-02293) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-11HU (47-051-02296), HUDSON S-12HU (47-051-02292), HUDSON S-14HU (47-021-02327), HUDSON S-15HU (47-051-02328), HUDSON S-16HU (47-051-02329), FITZGERALD S-17HU (47-051-02324), FITZGERALD S-18HU (47-051-02325), FITZGERALD S-19HU (47-051-02326).
- 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.
- WV DOT/DDH OWNERSHIP WITHIN UNIT SET FORTH IN WW-6A1.



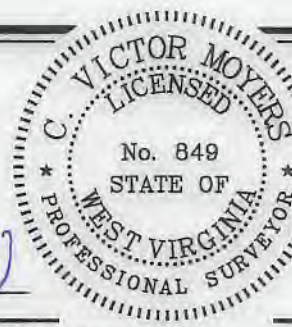
REFERENCES



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. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 23, 20 19
REVISED 10/22/19, 03/18/20, 07/14/20, 7/16/20, 08/07/20
OPERATORS WELL NO. HUDSON S-13HU
API WELL NO. 47 - 051 - 02293
STATE COUNTY PERMIT MOD

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P13HUR5.dwg HUDSON S-13HU 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 = 1,370.20' 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

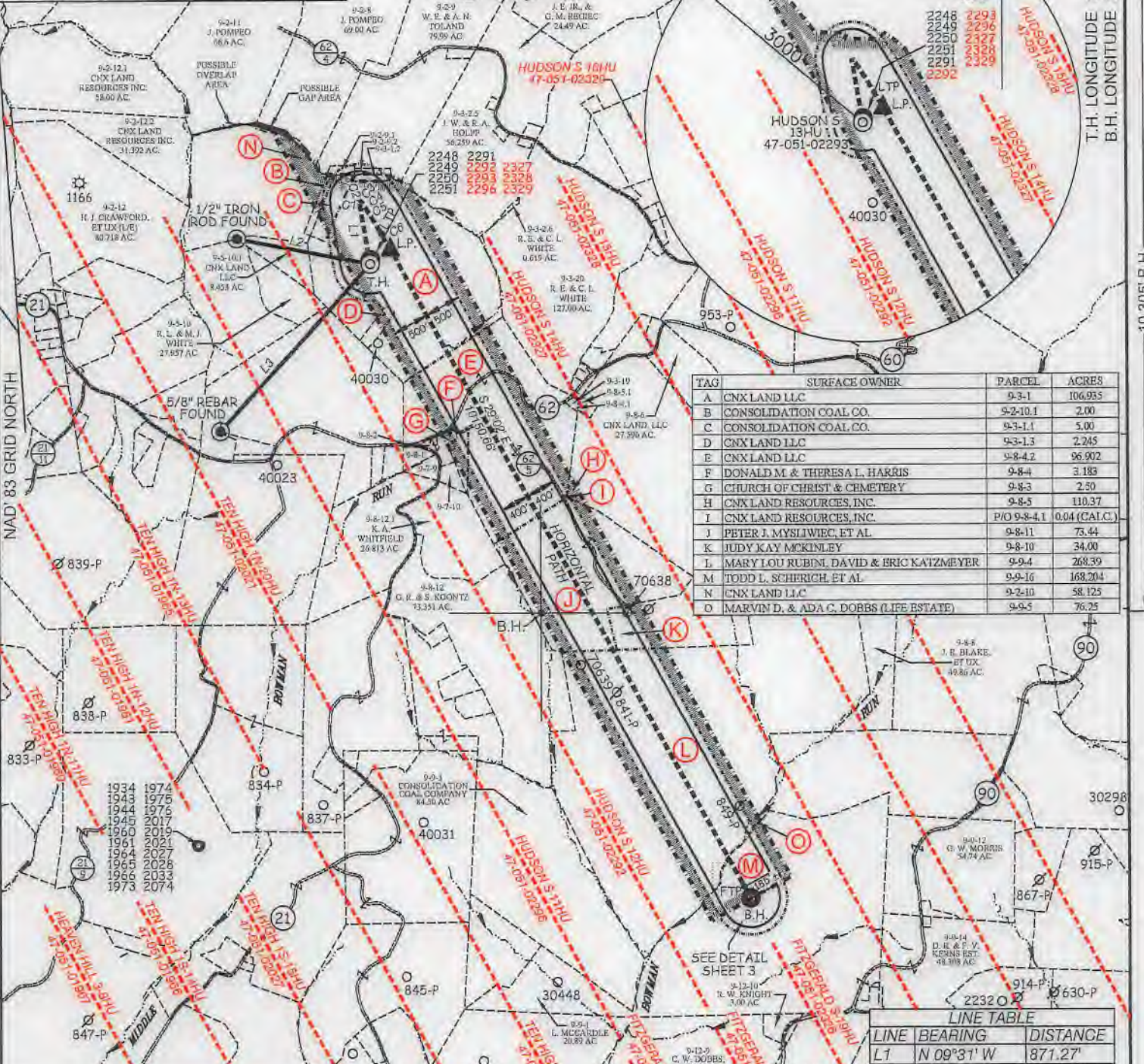
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,957' / TMD: 22,351'

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

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WELL 13HU
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-2-10.1	2.00
C	CONSOLIDATION COAL CO.	9-3-1.1	5.00
D	CNX LAND LLC	9-3-1.3	2.245
E	CNX LAND LLC	9-8-4.2	96.902
F	DONALD M. & THERESA L. HARRIS	9-8-4	3.183
G	CHURCH OF CHRIST & CEMETERY	9-8-3	2.50
H	CNX LAND RESOURCES, INC.	9-8-5	110.37
I	CNX LAND RESOURCES, INC.	P/O 9-8-4.1	0.04 (CALC.)
J	PETER J. MYSLIWIEC, ET AL	9-8-11	73.44
K	JUDY KAY MCKINLEY	9-8-10	34.00
L	MARY LOU RUBIN, DAVID & ERIC KATZMEYER	9-9-4	268.39
M	TODD L. SCHERICH, ET AL	9-9-16	168.204
N	CNX LAND LLC	9-2-10	58.125
O	MARVIN D. & ADA C. DOBBS (LIFE ESTATE)	9-9-5	76.25

LINE	BEARING	DISTANCE
L1	N 09°31' W	871.27'
L2	N 79°05' W	1867.59'
L3	S 42°07' W	3085.21'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	8.32'	31.50'	N 01°12' W	8.29'
C2	7.74'	3.55'	N 65°42' E	6.29'
C3	13.41'	54.45'	S 50°51' E	13.38'
C4	56.36'	462.35'	S 38°50' E	56.33'
C5	299.37'	4275.49'	S 32°46' E	299.31'
C6	420.09'	11913.86'	S 29°59' E	420.07'



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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. 8911P13HUR5.dwg
 HUDSON S-13HU REV6
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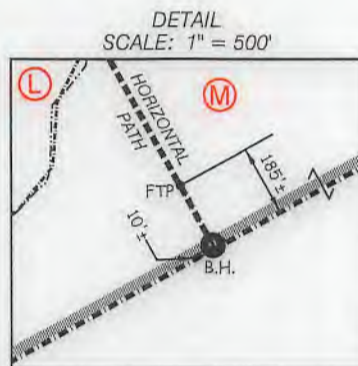
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NO.	Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*26041	9-3-1	A	FREDDIE C WHITE AND VIOLET L WHITE, ET AL	728	527
2	10*26711	9-2-10.1	B	CNX GAS COMPANY LLC	1074	593
3	10*26044	9-3-1.1	C	JOYCE A WALLACE, ET AL	863	296
4	10*26018	9-3-1.3	D	NANCY L WEST, ET AL	737	248
5	10*47051.109.0	9-8-4.2	E	DONALD M AND THERESA L HARRIS	859	440
6	10*47051.109.0	9-8-4	F	DONALD M AND THERESA L HARRIS	859	440
7	10*26113	9-8-3	G	ELDWIN OTIS RINE AND MARY L RINE, ET AL	880	434
8	10*23739	9-8-5	H	APPALACHIAN BASIN MINERALS LP, ET AL	1011	538
9	10*22760	9-8-4.1	I	DONALD M AND THERESA L HARRIS, ET AL	968	294
10	10*22745	9-8-11	J	BONNIE J JENKINS, ET AL	968	288
11	10*21246	9-8-10	K	THE ESTATE OF THERESA M ROGERSON CHARLES J ROGERSON EXECUTOR, ET AL	952	422
12	10*31001	9-9-4	L	ERIC KATZMEYER, ET AL	791	226
13	10*19987	9-9-16	M	LESLEY D BALLA, ET AL	955	103
14	10*26001	9-2-10	N	FREDDIE C WHITE AND VIOLET L WHITE	655	555
15	10*28244	9-9-5	O	MICHAEL D DOBBS AND STEPHANIE J DOBBS, ET AL	1068	569



FILE NO. 8911P13HUR5.dwg
HUDSON S-11HU REV6

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