

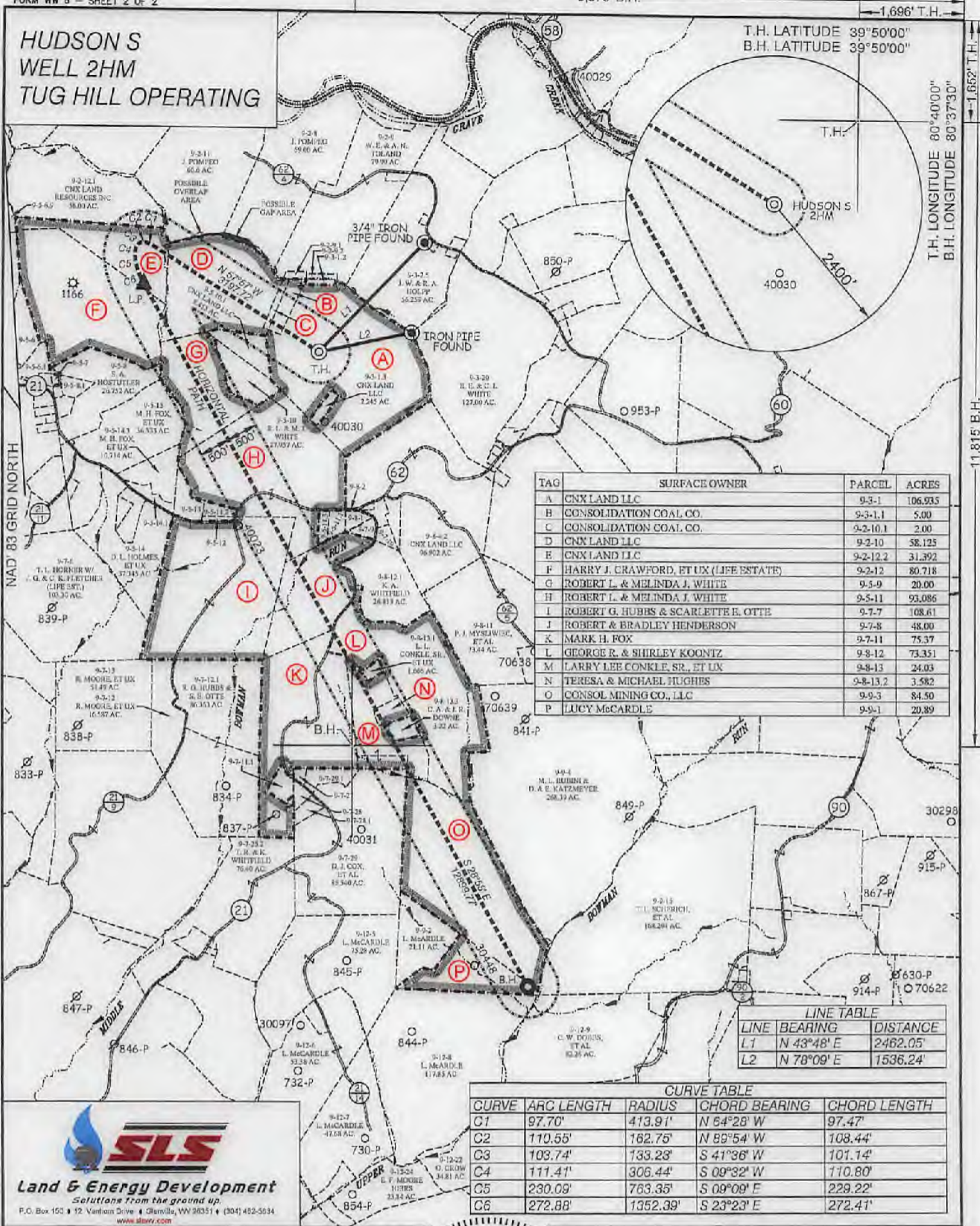
**HUDSON S
WELL 2HM
TUG HILL OPERATING**

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

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

NAD 83 GRID NORTH

11,815' B.H.



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	9-2-10	58.125
E	CNX LAND LLC	9-2-12.2	31.392
F	HARRY J. CRAWFORD, ET UX (LIFE ESTATE)	9-2-12	80.718
G	ROBERT L. & MELINDA J. WHITE	9-5-9	20.00
H	ROBERT L. & MELINDA J. WHITE	9-5-11	93.086
I	ROBERT G. HUBBS & SCARLETT E. OTTE	9-7-7	108.61
J	ROBERT & BRADLEY HENDERSON	9-7-8	48.00
K	MARK H. FOX	9-7-11	75.37
L	GEORGE R. & SHIRLEY KOONTZ	9-8-12	73.351
M	LARRY LEE CONKLE, SR., ET UX	9-8-13	24.03
N	TERESA & MICHAEL HUGHES	9-8-13.2	3.582
O	CONSOL MINING CO., LLC	9-9-3	84.50
P	LUCY McCARDLE	9-9-1	20.89

LINE	BEARING	DISTANCE
L1	N 43°48' E	2462.05'
L2	N 78°09' E	1536.24'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	97.70'	413.91'	N 64°28' W	97.47'
C2	110.55'	162.75'	N 89°54' W	108.44'
C3	103.74'	133.28'	S 41°36' W	101.14'
C4	111.41'	306.44'	S 09°32' W	110.80'
C5	230.09'	763.35'	S 09°09' E	229.22'
C6	272.88'	1352.39'	S 23°23' E	272.41'

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

P.S. 849 *C. Victor Moyers*

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

COUNTY NAME

PERMIT

SCALE 1" = 2000' FILE NO. 8911P2HM.dwg
 HUDSON S-2HM REV3
 DATE JUNE 14, 20 19
 OPERATORS WELL NO. HUDSON S-2HM
 API WELL NO. 47 STATE 051 COUNTY PERMIT 02249

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

**HUDSON S
WELL 2HM
TUG HILL OPERATING**

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

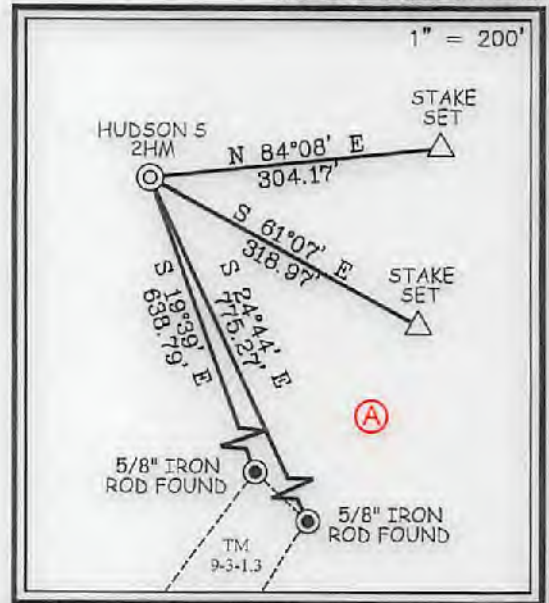
T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

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
9-5-11.1	MARK H. FOX	2.619
9-5-11.2	LARRY WHETZEL, JR.	2.355
9-5-11.3	MARK H. FOX	1.94
9-5-12	LARRY WHETZEL, JR.	1.00
9-5-13	SHELLY ANN JORDAN	5.51
9-5-14.1	SAVANNA N & MATTHEW WEST	2.819
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
9-7-29.1	LOGAN M TOLER & ASHLEY N. BERARDI	5.004
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. 406,140.15	E. 1,639,159.21
NAD'83 GEO.	LAT-(N) 39.828798	LONG-(W) 80.672705
NAD'83 UTM (M)	N. 4,408,808.99	E. 528,007.48
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 487,218.8	E. 1,636,311.7
NAD'83 GEO.	LAT-(N) 39.831655	LONG-(W) 80.682894
NAD'83 UTM (M)	N. 4,409,121.0	E. 527,134.5
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 475,932.8	E. 1,642,559.9
NAD'83 GEO.	LAT-(N) 39.800899	LONG-(W) 80.660128
NAD'83 UTM (M)	N. 4,405,714.6	E. 529,095.5

REFERENCES



B.H.



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 JUNE 14, 20 19
 REVISED _____, 20 ____
 OPERATORS WELL NO. HUDSON S-2HM
 API WELL NO. 47 - 51 - 02249
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8911P2HM.dwg
HUDSON S-2HM REV3
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

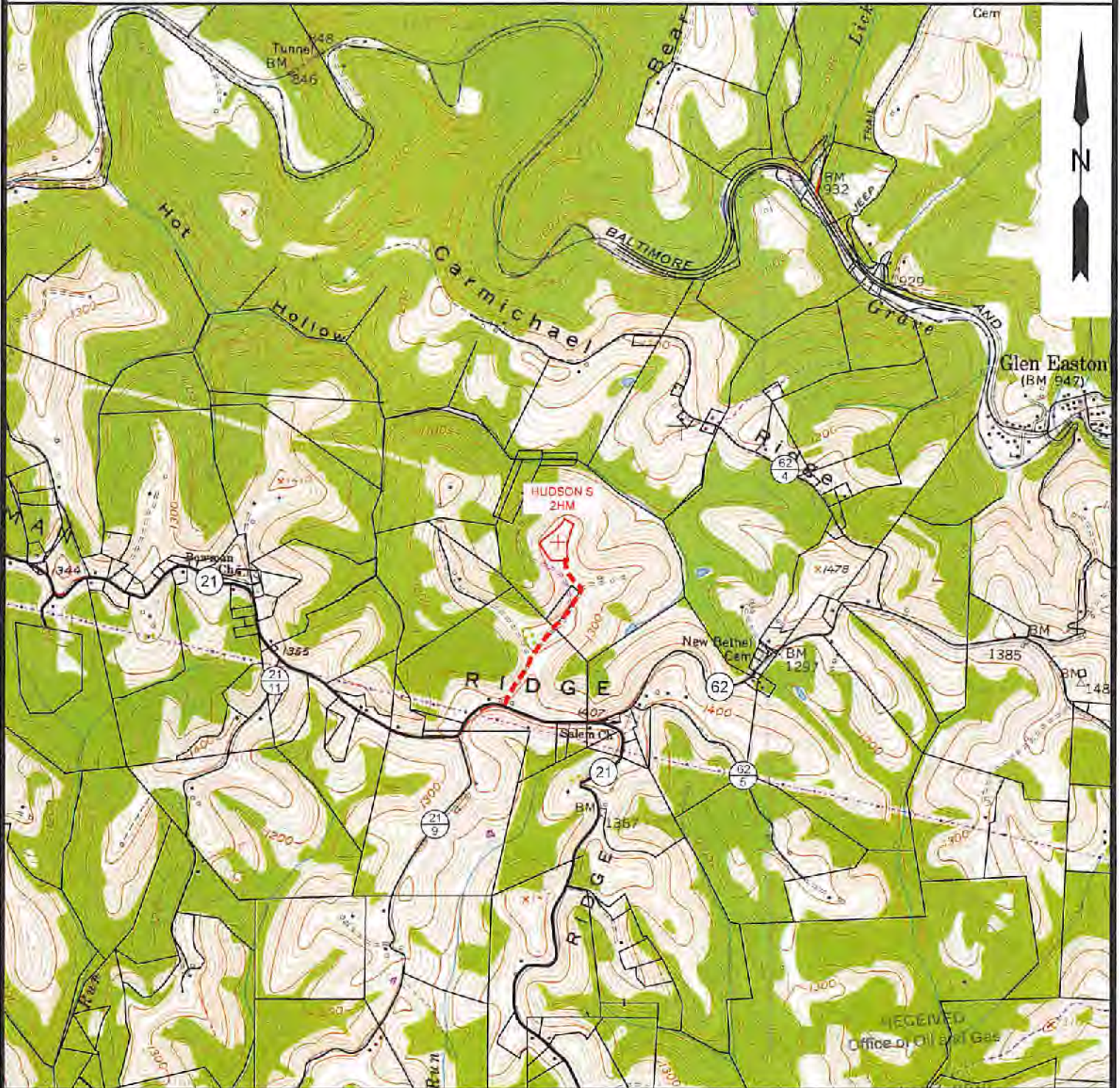
STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: GROUND = 1,370.20' 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 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 MARCELLUS
 ESTIMATED DEPTH TVD: 6,862' / TMD: 21,231'

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

COUNTY NAME
PERMIT

PROPOSED HUDSON S - 2HM



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

LAT: 39.829865
LON: -80.573724
LOCATED: N 89°55'26" E AT 27,779.45' FROM THE CENTER OF HUDSON'S WELL PAD LOCATION.

JUN 24 2019

WV Department of
Environmental Protection

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www.slsww.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
		SUITE 200	
		CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8911	06/14/2019	1" = 2000'



TUG HILL
OPERATING