

**FITZGERALD S LEASE
WELL 1HM
TUG HILL OPERATING**

TAG	SURFACE OWNER	PARCEL	ACRES
A	DANNY R. & FRANCES V. KERNS ESTATE	7-8-1	27.00
B	DANNY R. & FRANCES V. KERNS ESTATE	9-9-14	48.308
C	CONSOL MINING CO., LLC	9-12-14	127.61
D	DAVID L. WHIPKEY & DAVID MATTHEW WHIPKEY	9-12-12	61.00
E	MARK D. & SHERYL CHAMBERS	9-12-11	91.00
F	CHARLES WILLIAM DOBBS, ET AL	9-12-9	82.18
G	ROBERT W. KNIGHT	9-12-10	3.00
H	LUCY MCCARDLE	9-12-8	117.85
I	RONALD E. & MARY L. DOBBS - LIFE	9-12-20	90.963
J	WV DEPT OF TRANSPORTATION DOH	9-12-21.3	0.005
K	DAVID P. CHAPMAN	9-12-21	49.985
L	MICHAEL DOUGLAS & STEPHANIE JO DOBBS	9-12-34	19.31
M	RAYMOND D. DOBBS, ET AL	9-12-19	15.076
N	ROY ROGERS WOODS, SR.	9-12-18	30.00
O	ANNA E. MEYER ESTATE	9-12-35	93.64
P	CONSOL MINING CO., LLC	9-12-36	15.30
Q	CONSOL MINING CO., LLC	7-9-1	59.00
R	PAUL & SUSAN ASTON	7-9-2	98.95

PARCEL	SURFACE ADJOINER	ACRES
7-8-7	CONSOL MINING CO. LLC	31.99
9-9-14.1	AMERICAN ENERGY-MARCELLUS LLC	0.40
9-9-14.2	NAUVOO CEMETERY ASSOCIATION INC.	0.292
9-9-16.1	NAUVOO CEMETERY ASSOCIATION INC.	0.126
9-9-17	NAUVOO CEMETERY ASSOCIATION INC.	1.00
9-12-9.1	WV DEPT OF TRANSPORTATION DOH	0.079
9-12-16	DAVID & CAROL WHIPKEY TRUST, ET AL	30.00
9-12-17	DAVID & CAROL WHIPKEY TRUST, ET AL	37.27
9-12-19.1	RONALD E. DOBBS & MARY L. DOBBS	14.924
9-12-20.1	WV DEPT OF TRANSPORTATION DOH	0.004
9-12-20.2	WV DEPT OF TRANSPORTATION DOH	0.026
9-12-20.3	WV DEPT OF TRANSPORTATION DOH	0.007
9-12-21.1	WV DEPT OF TRANSPORTATION DOH	0.005
9-12-21.2	WV DEPT OF TRANSPORTATION DOH	0.005

NOTES ON SURVEY

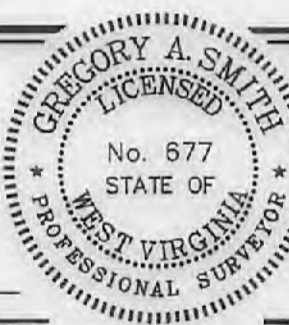
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 25351 | 304.492.5624
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.295.5296
 slswv.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 FEBRUARY 18, 2020

REVISED MAY 19, 2021, JULY 15, 2021

OPERATORS WELL NO. FITZGERALD S 1HM

API WELL NO. 47 - 051 - 02391 HKA
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P1HMR2.dwg
FITZGERALD S 1HM REV4

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: ELEVATION 1,293.00' WATERSHED SPEAKEASY HOLLOW OF MAGGOTY RUN

DISTRICT LIBERTY COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER DANNY AND FRANCES KERNS ESTATE ACREAGE 27.00±

ROYALTY OWNER DANNY S. KERNS, ET AL ACREAGE 27.00±

PROPOSED WORK: LEASE NO. SEE WV-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 MARCELLUS

ESTIMATED DEPTH TVD: 7,013' / TMD: 18,713'

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

5,747' B.H.

4,556' T.H.

T.H. LATITUDE 39°50'00"

B.H. LATITUDE 39°47'30"

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

NAD'83 S.P.C.(FT)	N. 475,971.96	E. 1,647,874.78
NAD'83 GEO.	LAT-(N) 39.801193	LONG-(W) 80.841214
NAD'83 UTM (M)	N. 4,405,753.57	E. 530,714.50

LANDING POINT

NAD'83 S.P.C.(FT)	N. 474,878.0	E. 1,642,367.0
NAD'83 GEO.	LAT-(N) 39.797448	LONG-(W) 80.860757
NAD'83 UTM (M)	N. 4,405,331.3	E. 529,043.1

BOTTOM HOLE

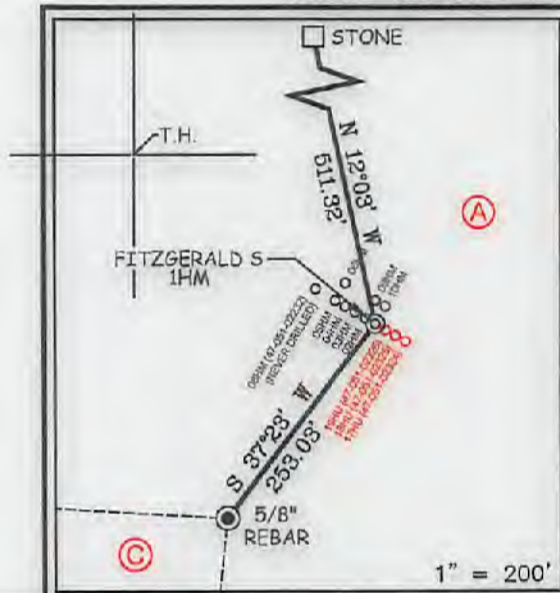
NAD'83 S.P.C.(FT)	N. 487,168.8	E. 1,646,573.4
NAD'83 GEO.	LAT-(N) 39.776976	LONG-(W) 80.845446
NAD'83 UTM (M)	N. 4,403,064.3	E. 530,362.9

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

11,708' T.H.

5,352' B.H.

REFERENCES



COUNTY NAME

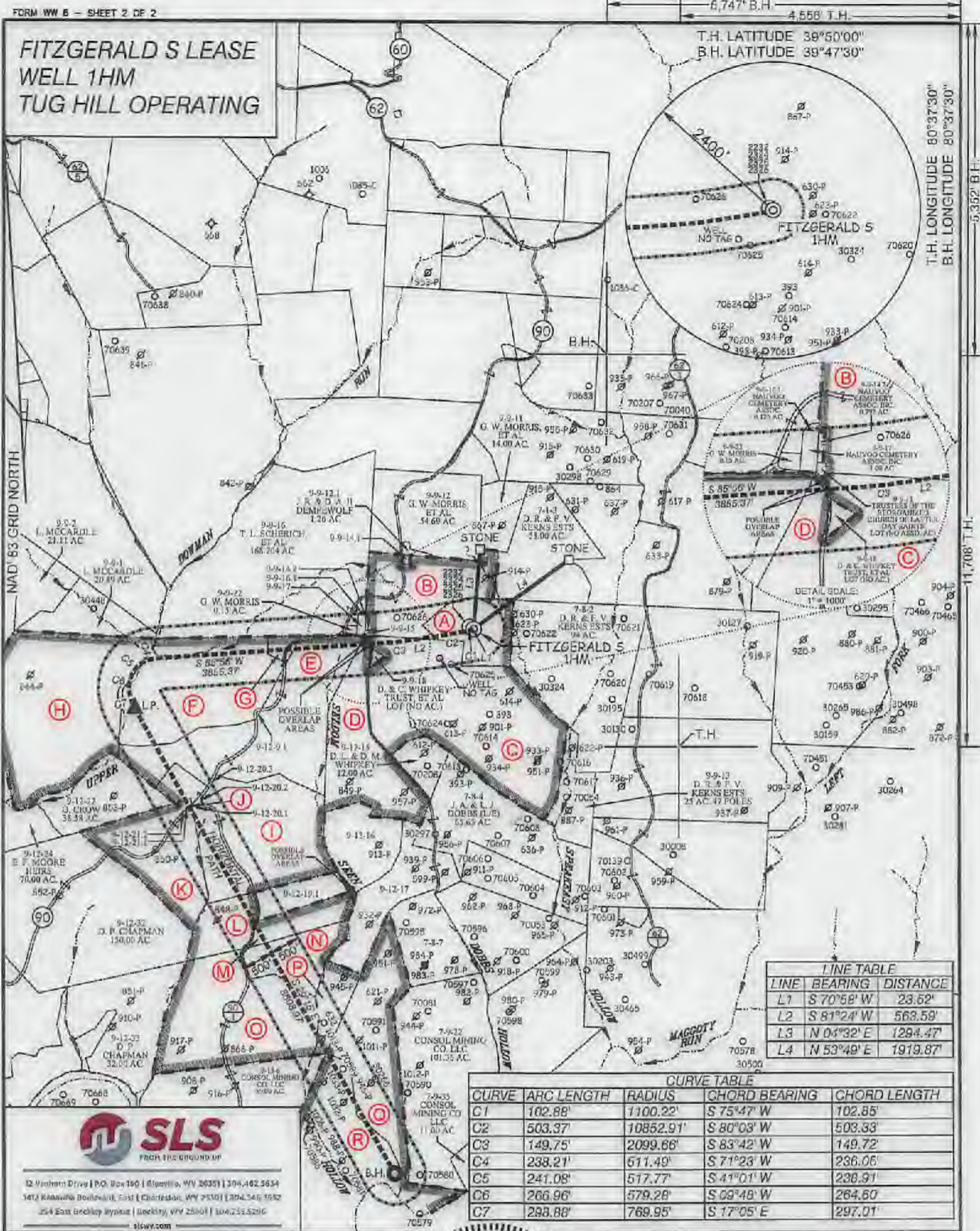
PERMIT

**FITZGERALD S LEASE
WELL 1HM
TUG HILL OPERATING**

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

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

NAD 83 GRID NORTH



LINE TABLE		
LINE	BEARING	DISTANCE
L1	S 70°58' W	23.52'
L2	S 81°24' W	563.59'
L3	N 04°32' E	1294.47'
L4	N 53°49' E	1919.87'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	102.88'	1100.22'	S 75°47' W	102.85'
C2	503.37'	10852.91'	S 80°03' W	503.33'
C3	149.75'	2099.66'	S 83°42' W	149.72'
C4	238.21'	511.40'	S 71°23' W	236.06'
C5	241.08'	517.77'	S 41°01' W	238.91'
C6	266.96'	579.28'	S 03°48' W	264.60'
C7	293.88'	769.95'	S 17°05' E	297.01'



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sllwv.com



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

P.S. 677 *Gregory A. Smith*

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. 8910P1HMR2.dwg
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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 DARREN BROWN
CT CORPORATION
ADDRESS 5098 WASHINGTON ST. W, STE 407
CHARLESTON WV 25313-1561

08/27/2021