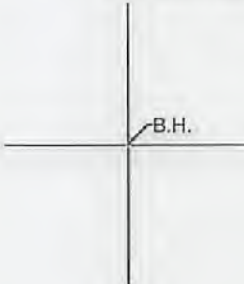


**FITZGERALD S LEASE
WELL 5HM
TUG HILL OPERATING**

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



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

2,232' B.H.

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	TODD L. SCHERICH, ET AL	9-9-16	168.204
D	MARK D. & SHERYL CHAMBERS	9-12-11	91.00
E	DAVID L. WHIPKEY & DAVID MATTHEW WHIPKEY	9-12-12	61.00
F	JOHN ALFRED & LEORA JEAN DOBBS (L/E)	7-8-4	65.65
G	DAVID & CAROL WHIPKEY TRUST, ET AL	9-12-17	37.27
H	JOHN ALFRED & LEORA JEAN DOBBS (L/E)	7-8-8	51.97

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

NAD'83 S.P.C.(FT)	N. 475,996.13	E. 1,647,833.31
NAD'83 GEO.	LAT-(N) 39.801258	LONG-(W) 80.641363
NAD'83 UTM (M)	N. 4,405,760.72	E. 530,701.74
<u>LANDING POINT</u>		
NAD'83 S.P.C.(FT)	N. 476,875.0	E. 1,644,577.0
NAD'83 GEO.	LAT-(N) 39.803557	LONG-(W) 80.652992
NAD'83 UTM (M)	N. 4,406,011.9	E. 529,705.2
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 470,264.9	E. 1,643,282.4
NAD'83 GEO.	LAT-(N) 39.785541	LONG-(W) 80.639506
NAD'83 UTM (M)	N. 4,404,017.0	E. 530,667.7

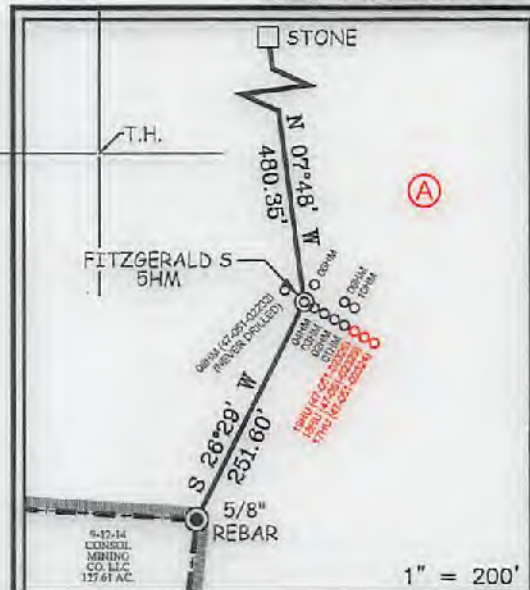
NOTES ON SURVEY

- 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'.

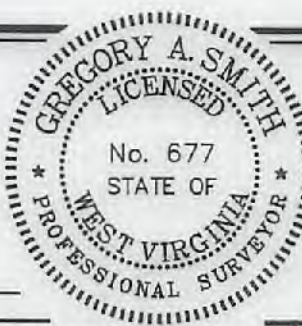


12 Vainorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5654
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3352
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5195
slsw.com

REFERENCES



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 20, 20 20
REVISED MAY 19, 2021, JULY 15, 2021
OPERATORS WELL NO. FITZGERALD S 5HM
API WELL NO. 47 - 051 - 02395 H6A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P5HMR2.dwg
FITZGERALD S 5HM REV5
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 08/27/2021

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 MARCELLUS
ESTIMATED DEPTH TVD: 7,025' / TMD: 16,206'

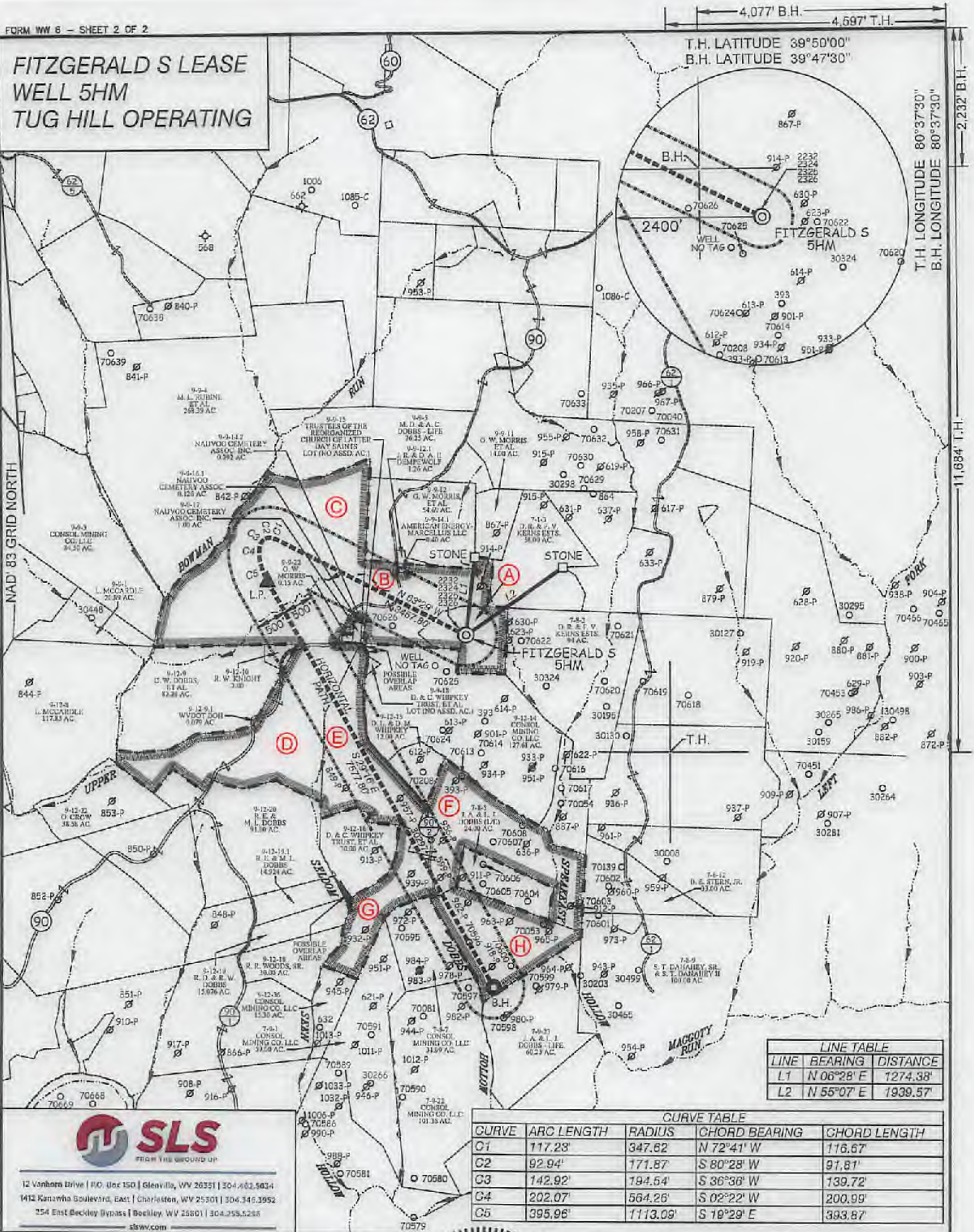
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS CT CORPORATION
FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON ST. W, STE 407
CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

**FITZGERALD S LEASE
WELL 5HM
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"



LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 06°28' E	1274.38'
L2	N 55°07' E	1939.57'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	117.23'	347.62	N 72°41' W	116.67'
C2	92.94'	171.87	S 80°28' W	91.81'
C3	142.92'	194.54	S 36°36' W	139.72'
C4	202.07'	564.26	S 02°22' W	200.99'
C5	395.96'	1113.09'	S 19°29' E	393.87'



12 Vanhorne Drive | P.O. Box 150 | Glenville, WV 26031 | 304.463.5634
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 P.S. 677 *Gregory A. Smith*

SCALE 1" = 2000' FILE NO. 8910P5HMR2.dwg
 FITZGERALD S 5HM REV 5
 DATE FEBRUARY 20, 2020
 REVISED MAY 19, 2021, JULY 15, 2021
 OPERATORS WELL NO. FITZGERALD S 5HM
 API WELL NO. 47-051-02395
 STATE COUNTY PERMIT

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

LEGEND

LEASE LINE	
SURFACE LINE	
WELL LATERAL	
OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
TAX MAP-PARCEL	00-00
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE WW-8A1)	

WELL OPERATOR TUG HILL OPERATING, LLC	DESIGNATED AGENT DARREN BROWN
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500	CT CORPORATION
FORT WORTH, TX 76107	ADDRESS 5038 WASHINGTON ST. W, STE 407
	CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

08/27/2021