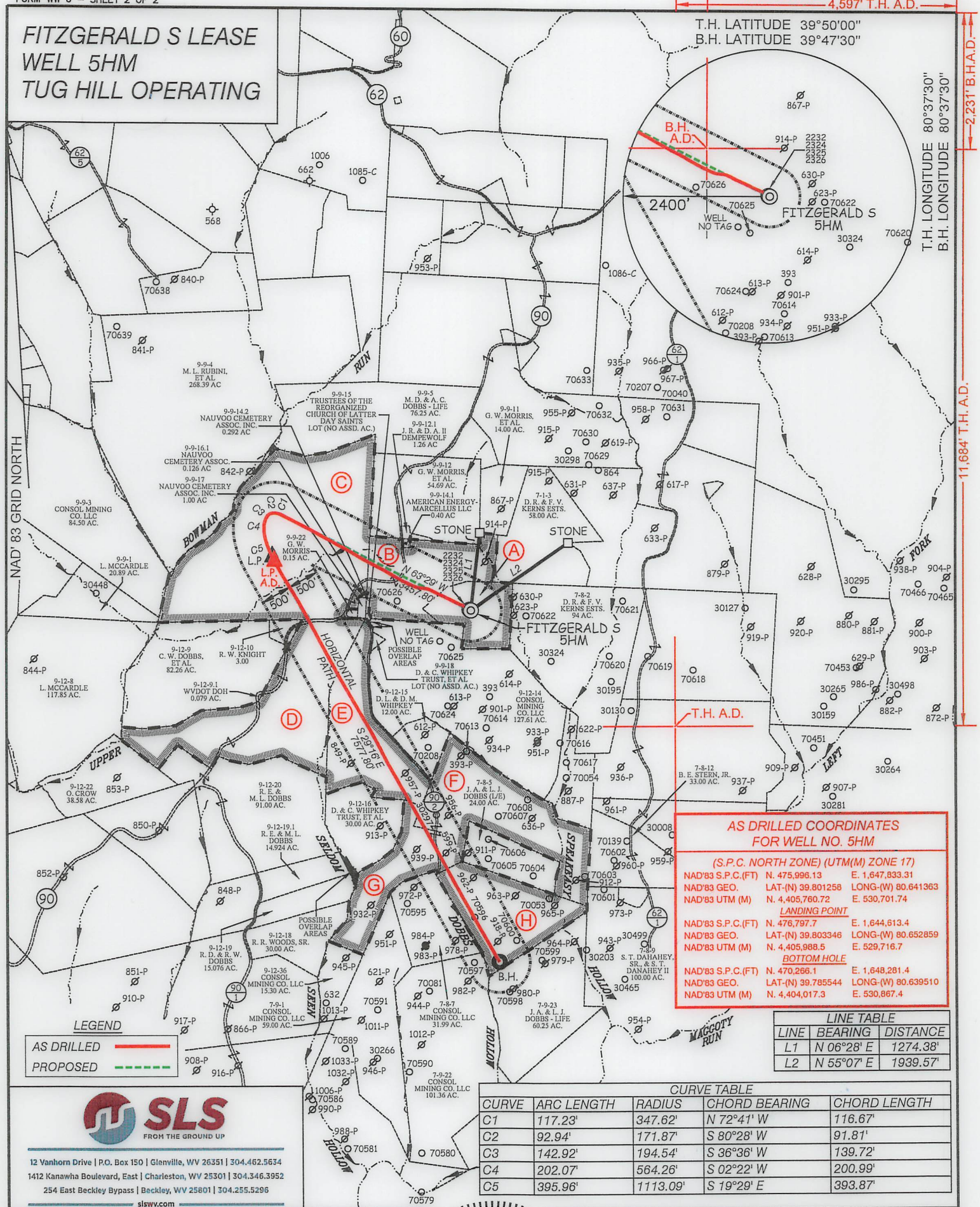


**FITZGERALD S LEASE  
WELL 5HM  
TUG HILL OPERATING**

4,078' B.H.A.D. 4,597' T.H.A.D.

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

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



**AS DRILLED COORDINATES FOR WELL NO. 5HM**

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

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

**LANDING POINT**

NAD'83 S.P.C. (FT)	N. 476,797.7	E. 1,644,613.4
NAD'83 GEO.	LAT-(N) 39.803346	LONG-(W) 80.652859
NAD'83 UTM (M)	N. 4,405,988.5	E. 529,716.7

**BOTTOM HOLE**

NAD'83 S.P.C. (FT)	N. 470,266.1	E. 1,648,281.4
NAD'83 GEO.	LAT-(N) 39.785544	LONG-(W) 80.639510
NAD'83 UTM (M)	N. 4,404,017.3	E. 530,867.4

**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'

**LEGEND**

AS DRILLED ——— (Red line)

PROPOSED - - - - - (Green dashed line)

**SLS**  
FROM THE GROUND UP

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

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

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

**LANDING POINT**

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

**BOTTOM HOLE**

NAD'83 S.P.C. (FT)	N. 470,264.9	E. 1,648,282.4
NAD'83 GEO.	LAT-(N) 39.785541	LONG-(W) 80.639506
NAD'83 UTM (M)	N. 4,404,017.0	E. 530,867.7



(+) 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	00-00
SURFACE OWNER (SEE TABLE)	(A)
LEASE # (SEE WW-6A1)	

SCALE 1" = 2000' FILE NO. 8910P5HMR2-AD.dwg  
FITZGERALD S 5HM REV5

DATE MARCH 10, 2023

REVISED \_\_\_\_\_

OPERATORS WELL NO. FITZGERALD S 5HM

API WELL NO. 47-051-02395

NO. STATE COUNTY PERMIT

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

COUNTY NAME \_\_\_\_\_ PERMIT \_\_\_\_\_



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

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

B.H. A.D.

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

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)

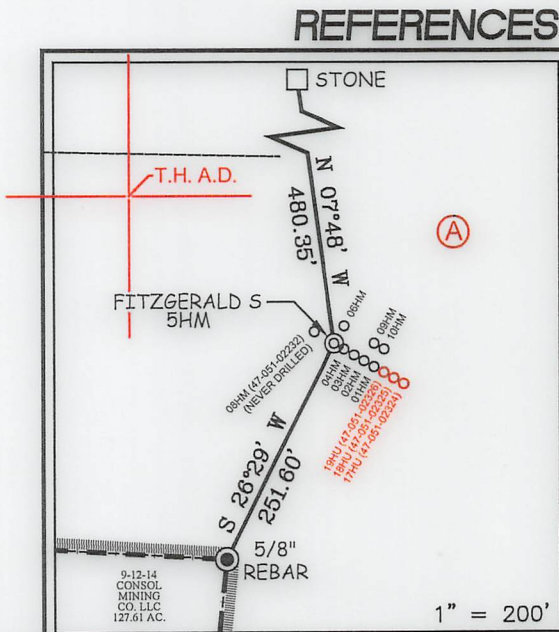
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**NOTES ON SURVEY**

- 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'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.

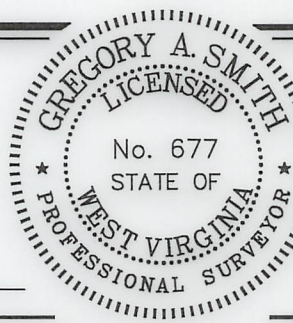


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slsw.com



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. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE MARCH 10, 2023  
REVISED \_\_\_\_\_  
OPERATORS WELL NO. FITZGERALD S 5HM  
API WELL NO. 47 - 051 - 02395  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P5HMR2-AD.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 27.00±

PROPOSED WORK:  
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 - CT CORPORATION  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407  
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME  
PERMIT

10/27/2023