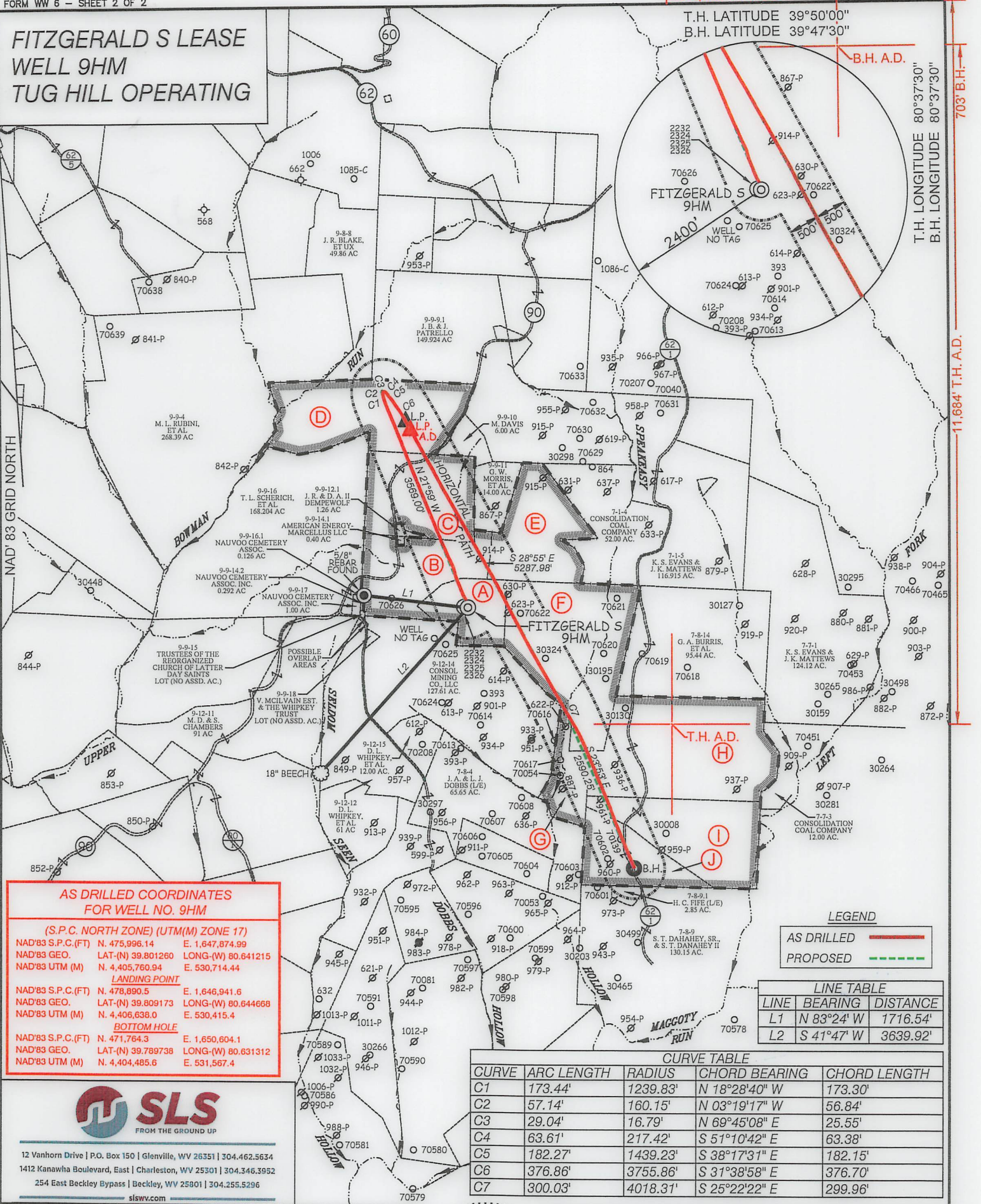


**FITZGERALD S LEASE
WELL 9HM
TUG HILL OPERATING**

1774' B.H. A.D.
4,556' T.H.A.D.
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"
703' B.H.I.
11,684' T.H. A.D.



AS DRILLED COORDINATES FOR WELL NO. 9HM

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

NAD'83 S.P.C.(FT)	N. 475,996.14	E. 1,647,874.99
NAD'83 GEO.	LAT-(N) 39.801260	LONG-(W) 80.641215
NAD'83 UTM (M)	N. 4,405,760.94	E. 530,714.44

LANDING POINT

NAD'83 S.P.C.(FT)	N. 478,890.5	E. 1,646,941.6
NAD'83 GEO.	LAT-(N) 39.809173	LONG-(W) 80.644668
NAD'83 UTM (M)	N. 4,406,638.0	E. 530,415.4

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 471,764.3	E. 1,650,604.1
NAD'83 GEO.	LAT-(N) 39.789738	LONG-(W) 80.631312
NAD'83 UTM (M)	N. 4,404,485.6	E. 531,567.4

LEGEND

AS DRILLED ——— (Red line)

PROPOSED - - - - - (Green dashed line)

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 83°24' W	1716.54'
L2	S 41°47' W	3639.92'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	173.44'	1239.83'	N 18°28'40" W	173.30'
C2	57.14'	160.15'	N 03°19'17" W	56.84'
C3	29.04'	16.79'	N 69°45'08" E	25.55'
C4	63.61'	217.42'	S 51°10'42" E	63.38'
C5	182.27'	1439.23'	S 38°17'31" E	182.15'
C6	376.86'	3755.86'	S 31°38'58" E	376.70'
C7	300.03'	4018.31'	S 25°22'22" E	299.96'



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)

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NAD'83 GEO.	LAT-(N) 39.801260	LONG-(W) 80.641215
NAD'83 UTM (M)	N. 4,405,760.94	E. 530,714.44

LANDING POINT

NAD'83 S.P.C.(FT)	N. 479,032.3	E. 1,646,864.7
NAD'83 GEO.	LAT-(N) 39.809559	LONG-(W) 80.644948
NAD'83 UTM (M)	N. 4,406,680.8	E. 530,391.2

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 471,764.5	E. 1,650,599.7
NAD'83 GEO.	LAT-(N) 39.789738	LONG-(W) 80.631328
NAD'83 UTM (M)	N. 4,404,485.6	E. 531,566.1



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

P.S. 677 *Gregory A. Smith*

LEGEND

LEASE LINE ——— (Dashed line)

SURFACE LINE ——— (Solid line)

WELL LATERAL ——— (Dashed line)

OFFSET LINE ——— (Dashed line)

TIE LINE ——— (Dashed line)

CREEK ——— (Wavy line)

ROAD ——— (Double line)

COUNTY ROUTE ——— (Line with 'R')

PROPOSED WELL ——— (Green dashed line with circle)

EXISTING WELL ——— (Black dashed line with circle)

PERMITTED WELL ——— (Black solid line with circle)

TAX MAP-PARCEL ——— (Line with '00-00')

SURFACE OWNER (SEE TABLE) ——— (Line with 'A')

LEASE # (SEE WW-6A1) ——— (Line with 'A')

SCALE 1" = 2000' FILE NO. 8910P9HMR2-AD.dwg
 FITZGERALD S 9HM REV6

DATE MARCH 10, 20 23

REVISED _____

OPERATORS WELL NO. FITZGERALD S 9HM

API WELL NO. 47 — 051 — 02385

NO. STATE COUNTY PERMIT

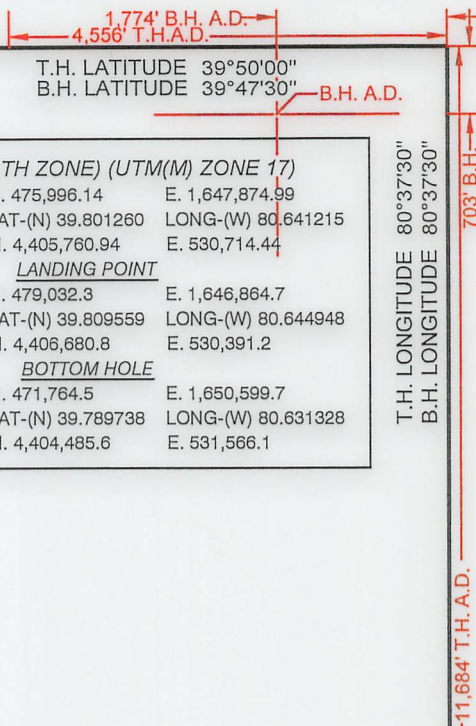
STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

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 9HM
TUG HILL OPERATING**

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

NAD'83 S.P.C.(FT)	N. 475,996.14	E. 1,647,874.99
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NAD'83 UTM (M)	N. 4,404,485.6	E. 531,566.1

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	GARY W. MORRIS & CYNTHIA PATRELLO	9-9-12	54.69
D	MARVIN D. & ADA C. DOBBS (L/E)	9-9-5	76.25
E	DANNY R. & FRANCES V. KERNS ESTATE	7-1-3	58.00
F	DANNY R. & FRANCES V. KERNS ESTATE	7-8-2	94.00
G	CONSOL MINING CO., LLC	9-12-14	127.61
H	DANNY R. & FRANCES V. KERNS ESTATE	9-9-13	25 AC. 47 POLES
I	BLAINE E. STERN, JR.	7-8-13	104.92
J	BLAINE E. STERN, JR.	7-8-11	60.62
K	BLAINE E. STERN, JR.	7-8-12	33.00

T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°37'30"
703' B.H.
11,684' T.H. A.D.

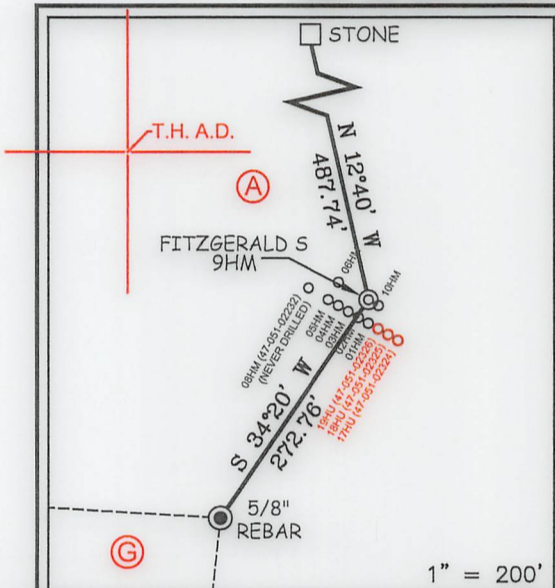
NOTES ON SURVEY

- 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.



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254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvw.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. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 10, 2023
REVISED _____
OPERATORS WELL NO. FITZGERALD S 9HM
API WELL NO. 47 - 051 - 02385
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P9HMR2-AD.dwg
FITZGERALD S 9HM REV6
HORIZONTAL & VERTICAL SCALE 1" = 2000'
CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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

WELL TYPE: OIL _____ GAS X INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
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 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: 7,027' / TMD: 16,990'

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