

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

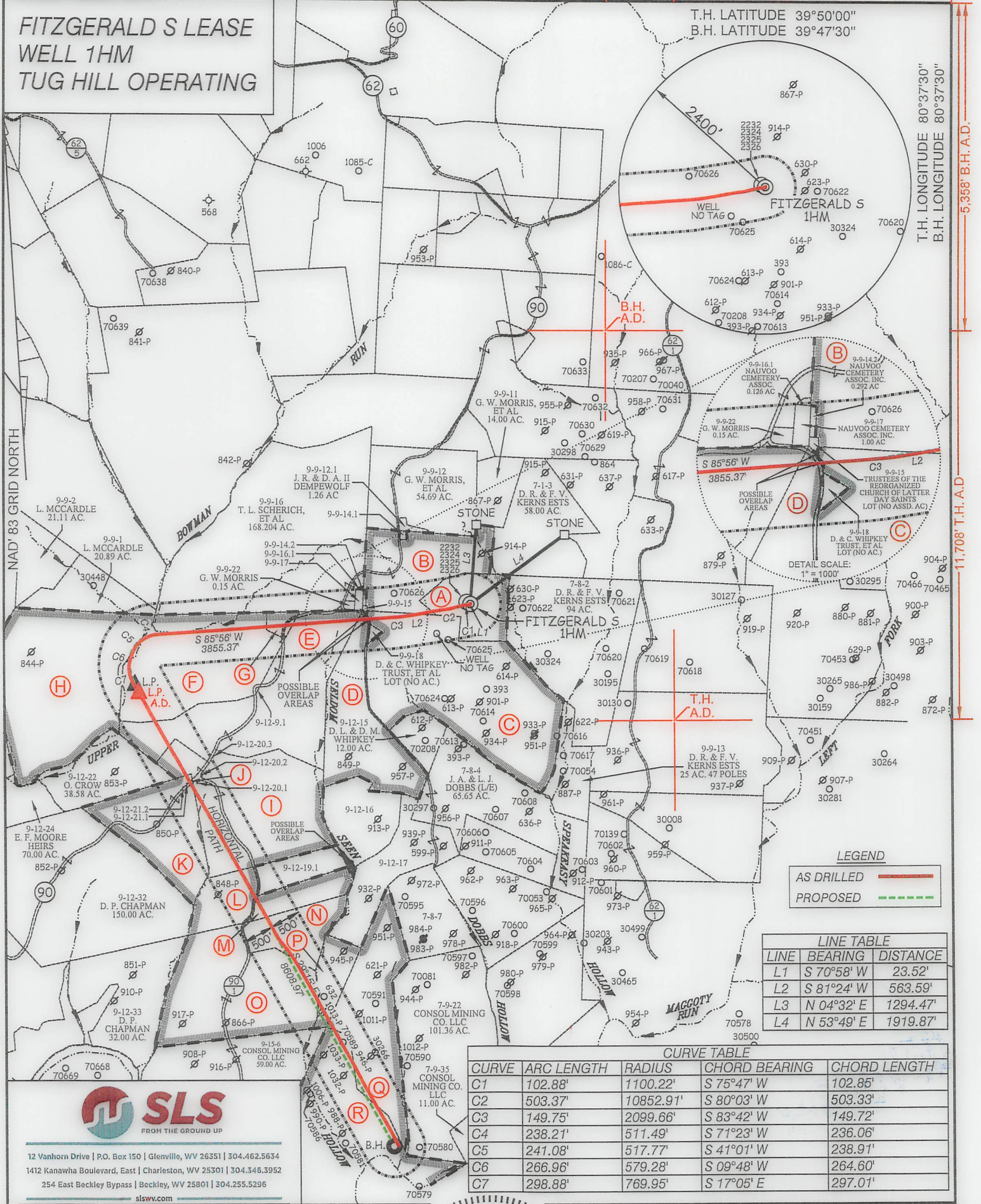
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

5,669' B.H. A.D.
4,556' T.H. A.D.

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

5,358' B.H. A.D.

11,708' T.H. A.D.



LEGEND

AS DRILLED ——— (Red line)

PROPOSED - - - - - (Green dashed line)

LINE TABLE

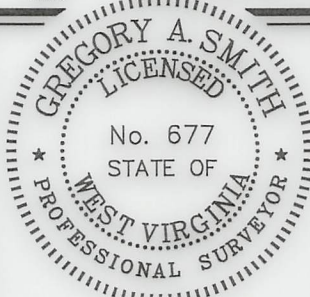
LINE	BEARING	DISTANCE
L1	S 70°58' W	23.52'
L2	S 81°24' W	563.59'
L3	N 04°32' E	1294.47'
L4	N 53°49' E	1919.87'

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'	511.49'	S 71°23' W	236.06'
C5	241.08'	517.77'	S 41°01' W	238.91'
C6	266.96'	579.28'	S 09°48' W	264.60'
C7	298.88'	769.95'	S 17°05' E	297.01'



12 Vanhorn Drive | P.O. Box 150 | Glenview, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.345.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsvv.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) ———

12/08/2023

(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) 80.641214

NAD'83 UTM (M) N. 4,405,753.57 E. 530,714.50

LANDING POINT

NAD'83 S.P.C.(FT) N. 474,678.0 E. 1,642,367.0

NAD'83 GEO. LAT-(N) 39.797448 LONG-(W) 80.660757

NAD'83 UTM (M) N. 4,405,331.3 E. 529,043.1

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 467,166.6 E. 1,646,573.4

NAD'83 GEO. LAT-(N) 39.776976 LONG-(W) 80.645446

NAD'83 UTM (M) N. 4,403,064.3 E. 530,362.9

SCALE 1" = 2000' FILE NO. 8910P1HMR2-AD.dwg

FITZGERALD S 1HM REV4

DATE MARCH 30, 20 23

REVISED _____

OPERATORS WELL NO. FITZGERALD S 1HM

API WELL NO. 47 — 051 — 02391

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 1HM
TUG HILL OPERATING**

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

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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

**AS DRILLED COORDINATES
FOR WELL NO. 1HM**

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

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NAD'83 GEO.	LAT-(N) 39.801193	LONG-(W) 80.641214
NAD'83 UTM (M)	N. 4,405,753.57	E. 530,714.50

LANDING POINT

NAD'83 S.P.C.(FT)	N. 474,544.3	E. 1,642,432.3
NAD'83 GEO.	LAT-(N) 39.797083	LONG-(W) 80.660518
NAD'83 UTM (M)	N. 4,405,290.9	E. 529,063.7

BOTTOM HOLE

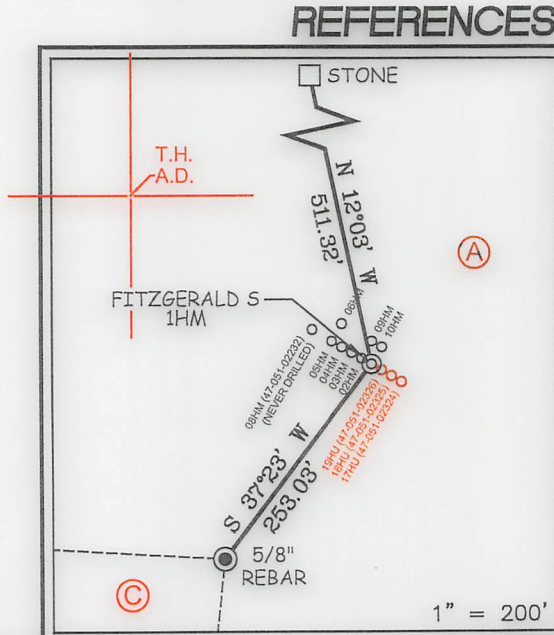
NAD'83 S.P.C.(FT)	N. 467,159.3	E. 1,646,650.8
NAD'83 GEO.	LAT-(N) 39.776959	LONG-(W) 80.645171
NAD'83 UTM (M)	N. 4,403,062.5	E. 530,386.5

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'.
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.

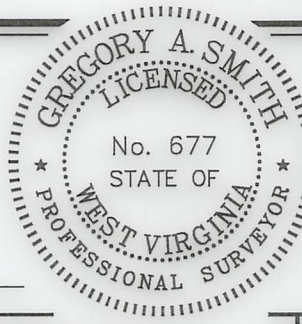


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slsw.com



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 30, 20 23
REVISED _____
OPERATORS WELL NO. FITZGERALD S 1HM
API WELL NO. 47 - 051 - 02391
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P1HMR2-AD.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: 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 CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

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