

**FITZGERALD S LEASE
WELL 4HM
TUG HILL OPERATING**

4,168' B.H.A.D. 4,587' T.H.A.D.

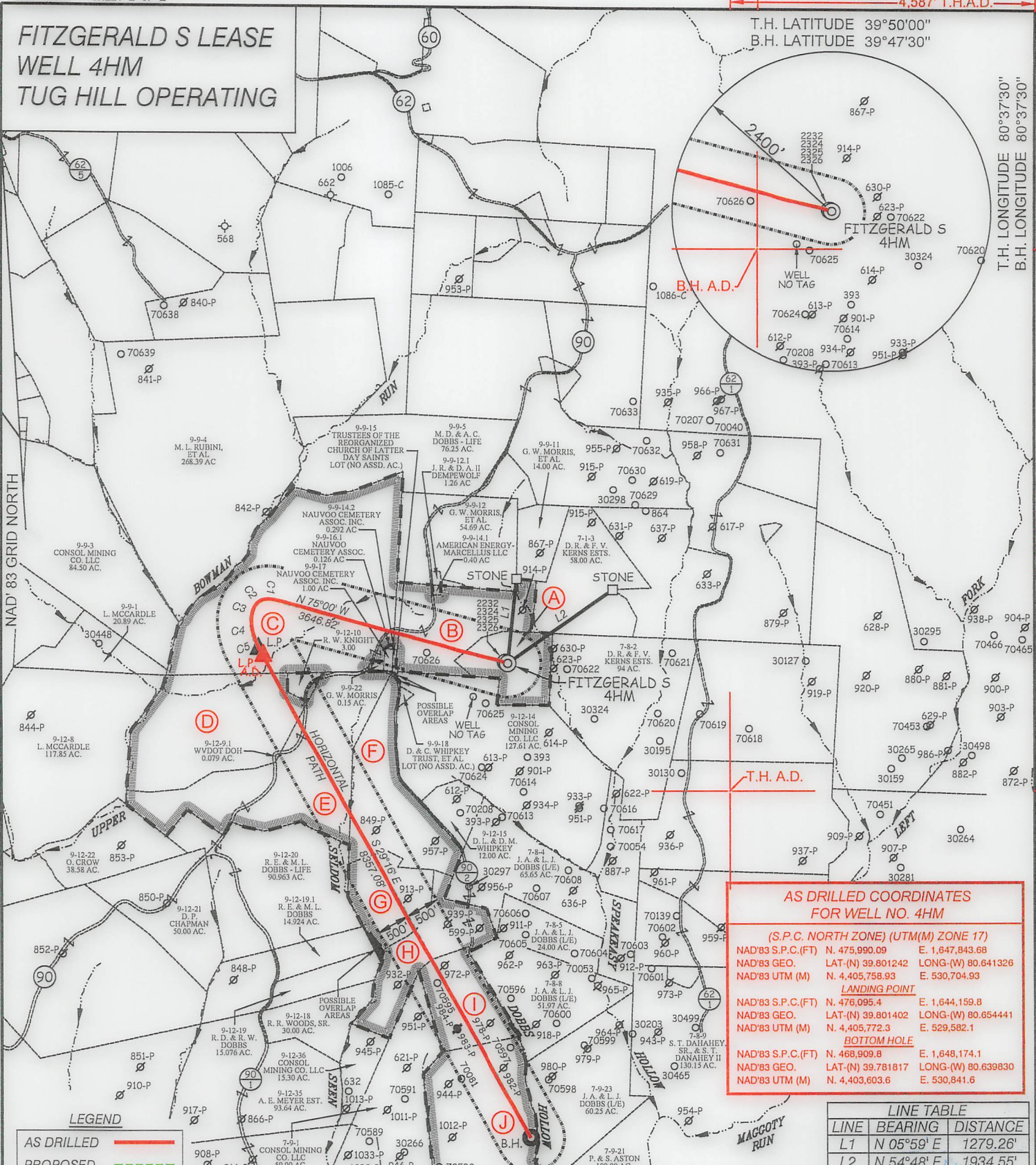
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

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

3,588' B.H.A.D.

11,690' T.H.A.D.

NAD 83 GRID NORTH



AS DRILLED COORDINATES FOR WELL NO. 4HM

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

NAD'83 S.P.C.(FT)	N. 475,990.09	E. 1,647,843.68
NAD'83 GEO.	LAT-(N) 39.801242	LONG-(W) 80.641326
NAD'83 UTM (M)	N. 4,405,758.93	E. 530,704.93

LANDING POINT

NAD'83 S.P.C.(FT)	N. 476,095.4	E. 1,644,159.8
NAD'83 GEO.	LAT-(N) 39.801402	LONG-(W) 80.654441
NAD'83 UTM (M)	N. 4,405,772.3	E. 529,582.1

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 468,909.8	E. 1,648,174.1
NAD'83 GEO.	LAT-(N) 39.781817	LONG-(W) 80.639830
NAD'83 UTM (M)	N. 4,403,603.6	E. 530,841.6

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 05°59' E	1279.26'
L2	N 54°48' E	1934.55'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	163.29'	341.07'	N 89°17' W	161.74'
C2	168.15'	253.60'	S 51°39' W	165.09'
C3	204.33'	462.14'	S 15°16' W	202.67'
C4	260.48'	795.64'	S 08°24' E	259.32'
C5	193.30'	1007.36'	S 23°49' E	193.00'

LEGEND
AS DRILLED ———
PROPOSED - - - - -

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)

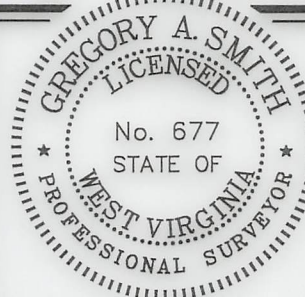
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LANDING POINT

NAD'83 S.P.C.(FT)	N. 476,205.1	E. 1,644,092.4
NAD'83 GEO.	LAT-(N) 39.801701	LONG-(W) 80.654686
NAD'83 UTM (M)	N. 4,405,805.3	E. 529,561.0

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 468,914.4	E. 1,648,177.3
NAD'83 GEO.	LAT-(N) 39.781830	LONG-(W) 80.639819
NAD'83 UTM (M)	N. 4,403,605.0	E. 530,842.6



(+) 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)

SCALE 1" = 2000' FILE NO. 8910P4HMR2-AD.dwg
FITZGERALD S 4HM REV5

DATE MARCH 10, 2023
REVISED

OPERATORS WELL NO. FITZGERALD S 4HM
API WELL NO. 47-051-02394
NO. STATE COUNTY PERMIT

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

DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

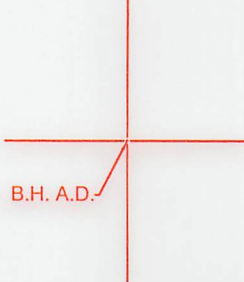
COUNTY NAME PERMIT

**FITZGERALD S LEASE
WELL 4HM
TUG HILL OPERATING**

4,168' B.H.A.D. 4,587' T.H.A.D.
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B.H. LATITUDE 39°47'30"

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3,588' B.H. A.D.

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	CHARLES WILLIAM DOBBS, ET AL	9-12-9	82.18
E	MARK D. & SHERYL CHAMBERS	9-12-11	91.00
F	DAVID L. WHIPKEY & DAVID MATTHEW WHIPKEY	9-12-12	61.00
G	DAVID & CAROL WHIPKEY TRUST, ET AL	9-12-16	30.00
H	DAVID & CAROL WHIPKEY TRUST, ET AL	9-12-17	37.27
I	CONSOL MINING CO., LLC	7-8-7	31.99
J	CONSOL MINING CO., LLC	7-9-22	101.36



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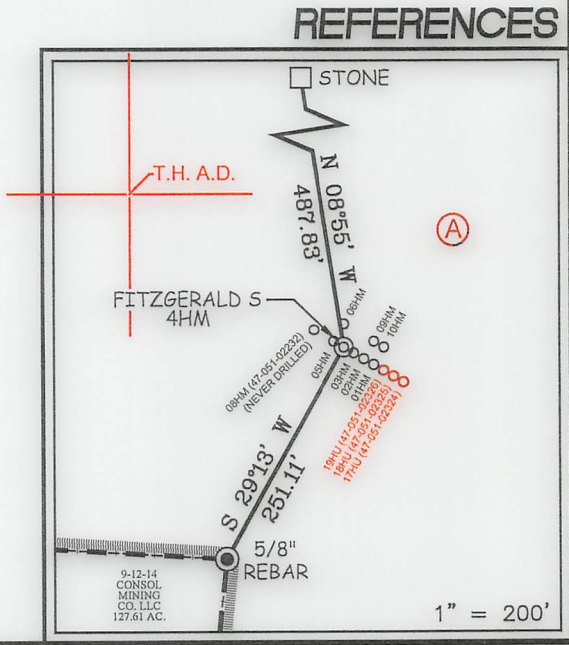
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NOTES ON SURVEY

- 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.

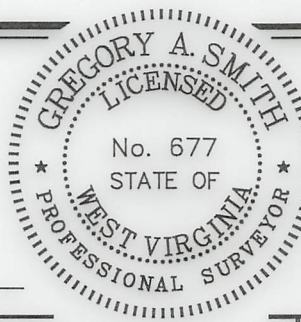


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slsvw.com



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, 20 23
REVISED _____
OPERATORS WELL NO. FITZGERALD S 4HM
API WELL NO. 47 - 051 - 02394
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500
FILE NO. 8910P4HMR2-AD.dwg
FITZGERALD S 4HM 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 X LIQUID 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 :
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: 7,025' / TMD: 17,152'

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