

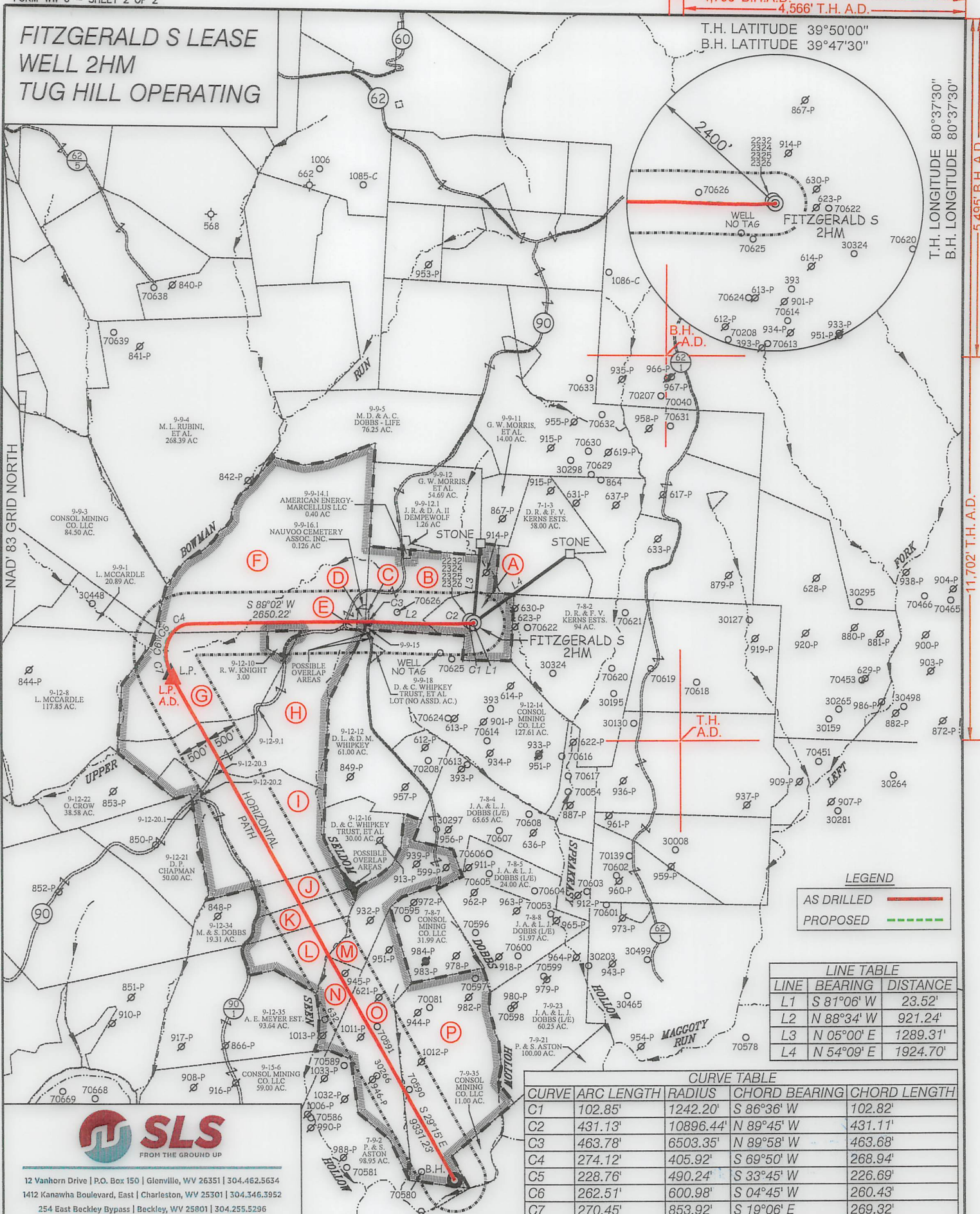
**FITZGERALD S LEASE  
WELL 2HM  
TUG HILL OPERATING**

4,796' B.H.A.D.  
4,566' 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"

5,495' B.H.A.D.  
11,702' T.H.A.D.



**LEGEND**

AS DRILLED ——— (solid red line)  
PROPOSED - - - - - (dashed green line)

**LINE TABLE**

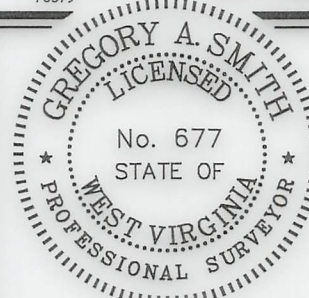
LINE	BEARING	DISTANCE
L1	S 81°06' W	23.52'
L2	N 88°34' W	921.24'
L3	N 05°00' E	1289.31'
L4	N 54°09' E	1924.70'

**CURVE TABLE**

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	102.85'	1242.20'	S 86°36' W	102.82'
C2	431.13'	10896.44'	N 89°45' W	431.11'
C3	463.78'	6503.35'	N 89°58' W	463.68'
C4	274.12'	405.92'	S 69°50' W	268.94'
C5	228.76'	490.24'	S 33°45' W	226.69'
C6	262.51'	600.98'	S 04°45' W	260.43'
C7	270.45'	853.92'	S 19°06' E	269.32'



12 Vanhorn Drive | P.O. Box 150 | Glenview, 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  
slsv.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) ———

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'83 S.P.C.(FT) N. 4,75,978.00 E. 1,647,864.41  
 NAD'83 GEO. LAT-(N) 39.801210 LONG-(W) 80.641252  
 NAD'83 UTM (M) N. 4,405,755.36 E. 530,711.31  
**LANDING POINT**  
 NAD'83 S.P.C.(FT) N. 4,75,153.8 E. 1,642,961.1  
 NAD'83 GEO. LAT-(N) 39.798775 LONG-(W) 80.658664  
 NAD'83 UTM (M) N. 4,405,479.3 E. 529,221.7  
**BOTTOM HOLE**  
 NAD'83 S.P.C.(FT) N. 467,012.4 E. 1,647,520.7  
 NAD'83 GEO. LAT-(N) 39.776586 LONG-(W) 80.642069  
 NAD'83 UTM (M) N. 4,403,022.2 E. 530,652.3

SCALE 1" = 2000' FILE NO. 8910P2HMR2-AD.dwg  
 FITZGERALD S 2HM REV5  
 DATE MARCH 30, 20 23  
 REVISED \_\_\_\_\_  
 OPERATORS WELL NO. FITZGERALD S 2HM  
 API WELL NO. **47 — 051 — 02392**  
 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 2HM  
TUG HILL OPERATING**

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	NAUVOO CEMETERY ASSOCIATION, INC.	9-9-14.2	0.292
D	NAUVOO CEMETERY ASSOCIATION, INC.	9-9-17	1.00
E	GARY W. MORRIS	9-9-22	0.15
F	TODD L. SCHERICH, ET AL	9-9-16	168.204
G	CHARLES WILLIAM DOBBS, ET AL	9-12-9	82.18
H	MARK D. & SHERYL CHAMBERS	9-12-11	91.00
I	RONALD E. & MARY L. DOBBS - LIFE	9-12-20	90.963
J	RONALD EUGENE & MARY LEE DOBBS	9-12-19.1	14.924
K	RAYMOND D. DOBBS, ET AL	9-12-19	15.076
L	ROY ROGERS WOODS, SR.	9-12-18	30.00
M	DAVID & CAROL WHIPKEY TRUST, ET AL	9-12-17	37.27
N	CONSOL MINING CO., LLC	9-12-36	15.30
O	CONSOL MINING CO., LLC	7-9-1	59.00
P	CONSOL MINING CO., LLC	7-9-22	101.36

PARCEL	SURFACE ADJOINER	ACRES
9-9-15	TRUSTEES OF THE REORGANIZED CHURCH OF LATTER DAY SAINTS	LOT (NO AC.)
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

**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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4,796' B.H.A.D. 4,566' T.H.A.D.

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

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

NAD'83 S.P.C.(FT)	N. 475,978.00	E. 1,647,864.41
NAD'83 GEO.	LAT-(N) 39.801210	LONG-(W) 80.641252
NAD'83 UTM (M)	N. 4,405,755.36	E. 530,711.31

**LANDING POINT**

NAD'83 S.P.C.(FT)	N. 475,153.8	E. 1,642,961.1
NAD'83 GEO.	LAT-(N) 39.798775	LONG-(W) 80.658664
NAD'83 UTM (M)	N. 4,405,479.3	E. 529,221.7

**BOTTOM HOLE**

NAD'83 S.P.C.(FT)	N. 467,012.4	E. 1,647,520.7
NAD'83 GEO.	LAT-(N) 39.776586	LONG-(W) 80.642069
NAD'83 UTM (M)	N. 4,403,022.2	E. 530,652.3

T.H. LONGITUDE 80°37'30"  
 B.H. LONGITUDE 80°37'30"  
 5,495' B.H.A.D.  
 11,702' T.H.A.D.

**AS DRILLED COORDINATES FOR WELL NO. 2HM**

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

NAD'83 S.P.C.(FT)	N. 475,978.00	E. 1,647,864.41
NAD'83 GEO.	LAT-(N) 39.801210	LONG-(W) 80.641252
NAD'83 UTM (M)	N. 4,405,755.36	E. 530,711.31

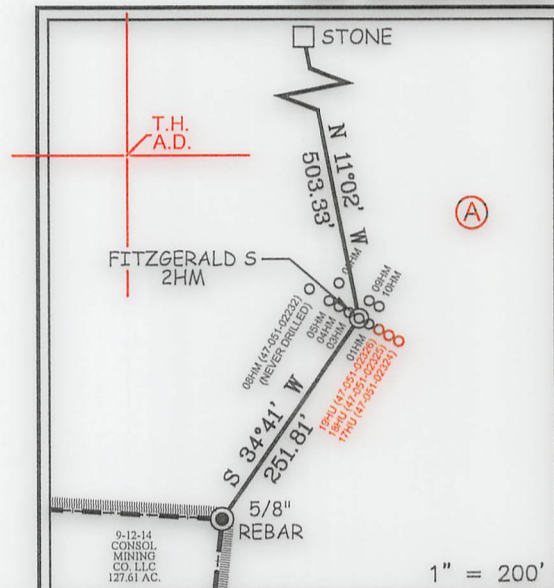
**LANDING POINT**

NAD'83 S.P.C.(FT)	N. 475,080.5	E. 1,642,997.5
NAD'83 GEO.	LAT-(N) 39.798575	LONG-(W) 80.658531
NAD'83 UTM (M)	N. 4,405,457.1	E. 529,233.2

**BOTTOM HOLE**

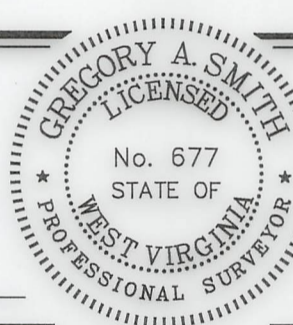
NAD'83 S.P.C.(FT)	N. 467,011.6	E. 1,647,521.8
NAD'83 GEO.	LAT-(N) 39.776584	LONG-(W) 80.642065
NAD'83 UTM (M)	N. 4,403,021.9	E. 530,652.6

**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 30, 2023  
 REVISED \_\_\_\_\_  
 OPERATORS WELL NO. FITZGERALD S 2HM  
 API WELL NO. 47 - 051 - 02392  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P2HMR2-AD.dwg  
FITZGERALD S 2HM 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 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: 7,018' / TMD: 18,906'

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

COUNTY NAME  
 PERMIT