

**FITZGERALD S LEASE
UTICA UNIT - 369.20 AC±
WELL 18HU
TUG HILL OPERATING**

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. 475,959.90	E. 1,647,895.53
NAD'83 GEO.	LAT-(N) 39.801161	LONG-(W) 80.641140
NAD'83 UTM (M)	N. 4,405,750.00	E. 530,720.88

LANDING POINT

NAD'83 S.P.C.(FT)	N. 475,644.0	E. 1,643,872.3
NAD'83 GEO.	LAT-(N) 39.800153	LONG-(W) 80.655444
NAD'83 UTM (M)	N. 4,405,633.3	E. 529,496.8

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 468,393.1	E. 1,647,950.3
NAD'83 GEO.	LAT-(N) 39.780391	LONG-(W) 80.640603
NAD'83 UTM (M)	N. 4,403,445.0	E. 530,776.1

TAG	SURFACE OWNER	PARCEL	ACRES
A	DANNY R. & FRANCES V. KERNS ESTATE	7-8-1	27.00
B	CONSOL MINING CO., LLC	9-12-14	127.61
C	DANNY R. & FRANCES V. KERNS ESTATE	9-9-14	48.308
D	NAUVOO CEMETERY ASSOC. INC.	9-9-14.2	0.292
E	TRUSTEES OF THE REORGANIZED CHURCH OF LATTER DAY SAINTS	9-9-15	LOT
F	WHIPKEY TRUST	9-12-12	61.00
G	NAUVOO CEMETERY ASSOC. INC.	9-9-16.1	0.126
H	NAUVOO CEMETERY ASSOC. INC.	9-9-17	1.09
I	GARY W. MORRIS	9-9-22	0.15
J	WARREN BERYLE & ELEANOR LOU CHAMBERS - LIFE	9-12-11	91.00
K	TODD L. SCHERICH, ET AL	9-9-16	168.204
L	ROBERT W. KNIGHT	9-12-10	3.00
M	CHARLES WILLIAM DOBBS, ET AL	9-12-9	82.26
N	RONALD EUGENE & MARY LEE DOBBS	9-12-20	91.00
O	VIRGINIA MCLVAIN ESTATE & THE WHIPKEY TRUST	9-12-16	30.00
P	RAYMOND D. DOBBS, ET UX	9-12-19	30.00
Q	ROY ROGERS WOODS, SR.	9-12-18	30.00
R	VIRGINIA MCLVAIN ESTATE & THE WHIPKEY TRUST	9-12-17	37.27
S	CONSOL MINING CO., LLC	7-9-1	59.00
T	CONSOL MINING CO., LLC	7-8-7	31.99
U	CONSOL MINING CO., LLC	7-9-22	101.36
V	JOHN ALFRED & LEORA JEAN DOBBS - LIFE	7-9-23	60.25

**AS DRILLED COORDINATES
FOR WELL NO. 18HU**

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

NAD'83 S.P.C.(FT)	N. 475,959.87	E. 1,647,895.51
NAD'83 GEO.	LAT-(N) 39.801161	LONG-(W) 80.641140
NAD'83 UTM (M)	N. 4,405,749.99	E. 530,720.88

LANDING POINT

NAD'83 S.P.C.(FT)	N. 475,512.6	E. 1,643,924.4
NAD'83 GEO.	LAT-(N) 39.799794	LONG-(W) 80.655252
NAD'83 UTM (M)	N. 4,405,593.5	E. 529,513.3

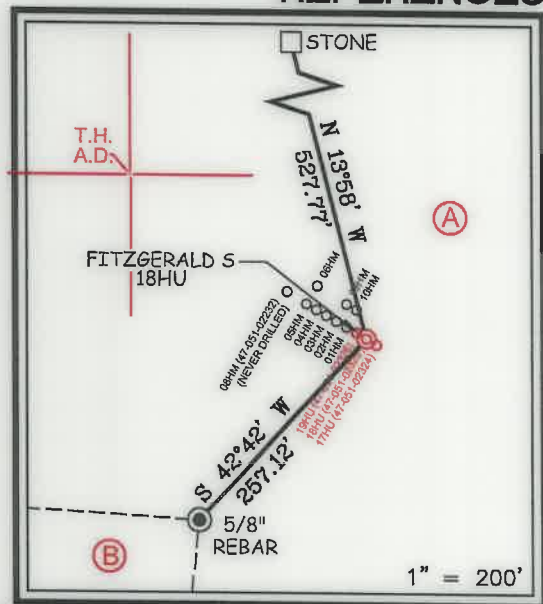
BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 468,393.8	E. 1,647,937.7
NAD'83 GEO.	LAT-(N) 39.780393	LONG-(W) 80.640648
NAD'83 UTM (M)	N. 4,403,445.2	E. 530,772.3

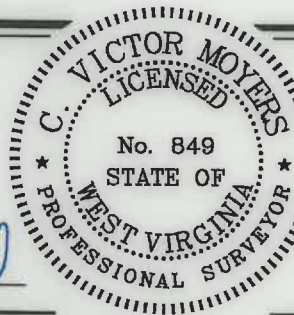
NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF FITZGERALD S-18HU (47-051-02325) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF FITZGERALD S-17HU (47-051-02324), FITZGERALD S-19HU (47-051-02326), HUDSON S-11HU (47-051-02296), HUDSON S-12HU (47-051-02292), HUDSON S-13HU (47-051-02293), HUDSON S-14HU (47-051-02327), HUDSON S-15HU (47-051-02328), HUDSON S-16HU (47-051-02329) & TEN HIGH 1S-17HU (47-051-02033).
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.

REFERENCES



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.345.2952
254 East Beckley Bypass | Beckley, WV 25801 | 304.855.5295
slswv.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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE APRIL 9, 20 21
REVISED MAY 17, 20 21
OPERATORS WELL NO. FITZGERALD S-18HU
API WELL NO. 47 - 051 - 02325
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P18HUADR.dwg
FITZGERALD S-18HU REV10
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 POINT PLEASANT
ESTIMATED DEPTH TVD: 12,080' / TMD: 21,657'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS CT CORPORATION SYSTEM
FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°37'30"
4,107' B.H. A.D.
11,720' T.H. A.D.

**FITZGERALD S LEASE
UTICA UNIT - 369.20 AC ±
WELL 18HU
TUG HILL OPERATING**

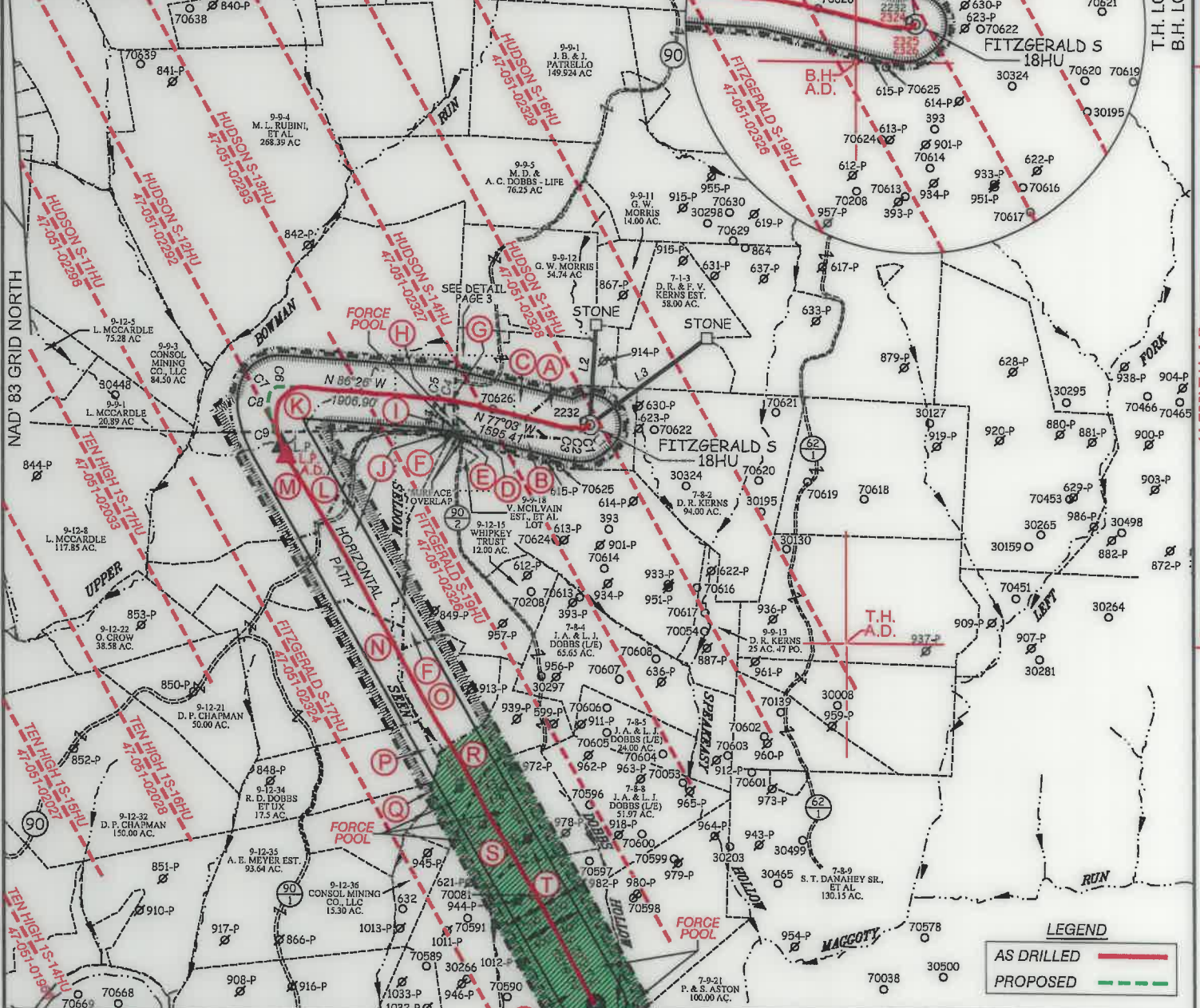
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B.H. LATITUDE 39°47'30"

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

11,720' T.H. A.D.

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 50°57' W	122.41'
L2	N 03°35' E	1305.04'
L3	N 53°09' E	1910.37'



LEGEND

AS DRILLED	
PROPOSED	

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	14.13'	24.83'	S 70°46'11" W	13.94'
C2	59.91'	288.66'	N 88°04'29" W	59.80'
C3	148.08'	1748.15'	N 79°41'21" W	148.03'
C4	101.52'	761.41'	N 79°01'31" W	101.44'
C5	149.39'	2804.46'	N 84°54'23" W	149.37'
C6	70.83'	216.47'	S 86°21'38" W	70.51'
C7	158.82'	151.98'	S 42°07'01" W	151.70'
C8	194.57'	447.27'	S 01°10'45" W	193.04'
C9	494.87'	1479.27'	S 20°33'24" E	492.56'

SLS
FROM THE GROUND UP

12 Veinhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.345.5962
254 East Bockley Bypass | Beckley, WV 26801 | 304.255.5296
sllsvw.com

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

LEGEND

UNIT BOUNDARY	
LEASED TRACTS INSIDE	
UNIT BOUNDARY	
SURFACE LINE	
PROPOSED UTICA	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
FORCE POOL TRACT	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 8910P18HUADR.dwg
FITZGERALD S-18HU REV10

DATE APRIL 9, 20 21
REVISED MAY 17, 20 21

OPERATORS WELL NO. FITZGERALD S-18HU
API WELL NO. 47 - 051 - 02325

NO.	STATE	COUNTY	PERMIT
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STATE OF WEST VIRGINIA
DIVISION OF
ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL OPERATOR	TUG HILL OPERATING, LLC	DESIGNATED AGENT	DIANNA STAMPER
ADDRESS	1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107	ADDRESS	5400 D BIG TYLER ROAD CHARLESTON, WV 25313

10/14/2022

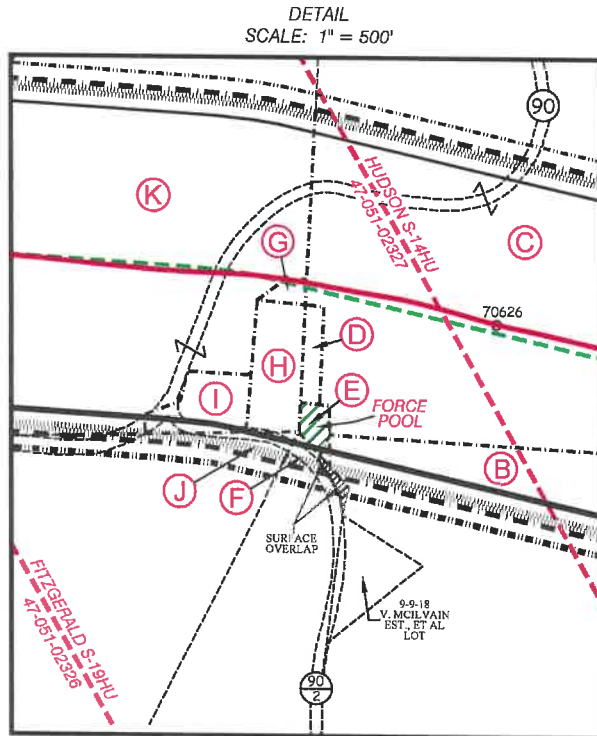
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254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slew.com

NO.	Lease ID	Tags	Parcel	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*25518	A	7-8-1	DANNY S KERNS, MARRIED MAN DEALING WITH HIS SOLE AND SEPARATE PROPERTY	1010	532
2	10*18339	B	9-12-14	RESOURCE MINERALS HEADWATER I LP	940	448
3	PENDING	C	9-9-14	REGINA DANETTE FIGUEROA	1075	137
4	10*27299	D	9-9-14.2	NAUVOO CEMETERY ASSOCIATION	1057	357
5	**	E	9-9-15	REORGANIZED CHURCH OF LATER DAY SAINTS	UNLEASED	
6	10*19557	F	9-12-12	TERRY L BLAKE	944	649
7	10*19987	G	9-9-16.1	LESLEY D BALLA	955	103
8	10*27299	H	9-9-17	NAUVOO CEMETERY ASSOCIATION	1057	357
9	10*24535	I	9-9-22	BOARD OF EDUCATION OF MARSHALL COUNTY	1026	64
10	10*15494	J	9-12-11	CHRISTOPHER SINGER AND SHEREA SINGER	898	433
11	10*19987	K	9-9-16	LESLEY D BALLA	955	103
12	10*23656	L	9-12-10	ROBERT W KNIGHT AND BARBARA J KNIGHT	1011	504
13	10*15999	M	9-12-9	CHARLES W DOBBS AND JUDITH M DOBBS	702	171
14	10*24679	N	9-12-20	PIKEWOOD ENERGY CORPORATION AN OHIO CORPORATION	1026	149
15	10*21512	O	9-12-16	THE WHIPKEY TRUST, ACTING TRUSTEES DAVID L WHIPKEY AND CAROL J WHIPKEY	949	266
16	10*19748	P	9-12-19	ELIZABETH JANE KELLEY	957	335
17	10*18073	Q	9-12-18	ROY R WOODS	927	22
18	10*21532	R	9-12-17	CHARLES E RICHARDSON AND SHIRLEY S RICHARDSON	957	327
19	10*22631	S	7-9-1	FREDA ELIZABETH BLAKE	966	632
20	10*21532	T	7-8-7	CHARLES E RICHARDSON AND SHIRLEY S RICHARDSON	1017	620
21	10*17930	U	7-9-22	BOUNTY MINERALS LLC	928	396
22	**	V	7-9-23	O E BURGE AND SARAH L BURGE ET AL	395	586



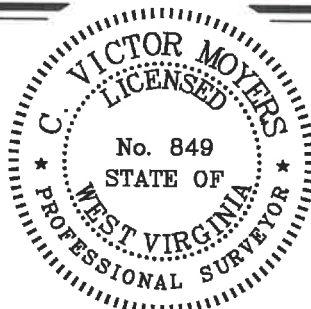
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DATE APRIL 9, 2021

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API WELL NO. 47 — 051 — 02325
STATE COUNTY PERMIT



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10/14/2021

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ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

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