

**FITZGERALD S LEASE
UTICA UNIT - 377.27 AC±
WELL 19HU
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. 475,965.85	E. 1,647,885.21
NAD'83 GEO.	LAT-(N) 39.801177	LONG-(W) 80.641177
NAD'83 UTM (M)	N. 4,405,751.76	E. 530,717.71
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 477,118.2	E. 1,644,481.7
NAD'83 GEO.	LAT-(N) 39.804221	LONG-(W) 80.659343
NAD'83 UTM (M)	N. 4,406,085.5	E. 529,674.9
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 469,221.9	E. 1,648,922.1
NAD'83 GEO.	LAT-(N) 39.782700	LONG-(W) 80.637183
NAD'83 UTM (M)	N. 4,403,702.4	E. 531,067.9

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	GARY W. MORRIS	9-9-12	54.74
E	NAUVOO CEMETERY ASSOC. INC.	9-9-16.1	0.126
F	TODD L. SCHERICH, ET AL	9-9-16	168.204
G	MARY LOU RUBINI, DAVID & ERIC KATZMEYER	9-9-4	268.39
H	GARY W. MORRIS	9-9-22	0.15
I	ROBERT W. KNIGHT	9-12-10	3.00
J	CHARLES WILLIAM DOBBS, ET AL	9-12-9	82.26
K	WARREN BERYLE & ELEANOR LOU CHAMBERS - LIFE	9-12-11	91.00
L	WHIPKEY TRUST	9-12-12	61.00
M	VIRGINIA MCILVAIN ESTATE & THE WHIPKEY TRUST	9-9-18	LOT
N	WHIPKEY TRUST	9-12-15	12.00
O	VIRGINIA MCILVAIN ESTATE & THE WHIPKEY TRUST	9-12-16	30.00
P	VIRGINIA MCILVAIN ESTATE & THE WHIPKEY TRUST	9-12-17	37.27
Q	JOHN ALFRED & LEORA JEAN DOBBS - LIFE	7-8-4	65.65
R	JOHN ALFRED & LEORA JEAN DOBBS - LIFE	7-8-5	24.00
S	CONSOL MINING CO., LLC	7-8-7	31.99
T	JOHN ALFRED & LEORA JEAN DOBBS - LIFE	7-8-8	51.97
U	CONSOL MINING CO., LLC	7-9-22	101.36
V	JOHN ALFRED & LEORA JEAN DOBBS - LIFE	7-9-23	60.25

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-9-12.1	JESSICA R. & DAVID A. II DEMPEWOLF	1.26
9-9-14.1	AMERICAN ENERGY-MARCELLUS, LLC	0.40
9-9-14.2	NAUVOO CEMETERY ASSOCIATION, INC.	0.292
9-9-15	TRUSTEES OF THE REORGANIZED CHURCH OF LATTER DAY SAINTS	LOT
9-9-17	NAUVOO CEMETERY ASSOCIATION, INC.	1.00

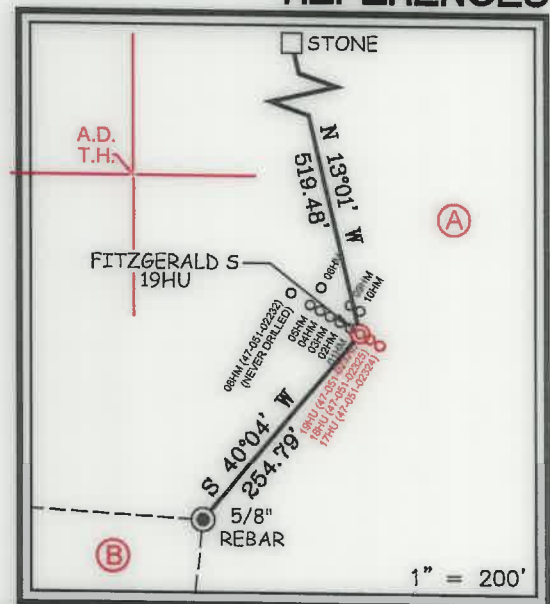
**AS DRILLED COORDINATES
FOR WELL NO. 19HU**

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

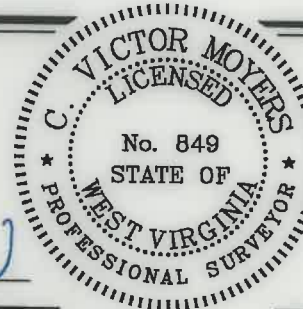
NAD'83 S.P.C.(FT)	N. 475,965.91	E. 1,647,885.14
NAD'83 GEO.	LAT-(N) 39.801177	LONG-(W) 80.641177
NAD'83 UTM (M)	N. 4,405,751.76	E. 530,717.69
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 475,966.9	E. 1,645,116.9
NAD'83 GEO.	LAT-(N) 39.801138	LONG-(W) 80.651030
NAD'83 UTM (M)	N. 4,405,744.1	E. 529,874.2
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 469,229.2	E. 1,648,927.7
NAD'83 GEO.	LAT-(N) 39.782720	LONG-(W) 80.637183
NAD'83 UTM (M)	N. 4,403,704.7	E. 531,069.6

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-19HU (47-051-02326) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF FITZGERALD S-17HU (47-051-02324), FITZGERALD S-18HU (47-051-02325), 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).
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.446.3952
254 East Beckley Bypass | Beckley, WV 25901 | 304.255.5296
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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 14, 20 21
REVISED _____, 20 ____
OPERATORS WELL NO. FITZGERALD S-19HU
API WELL NO. 47 - 051 - 02326
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P19HUAD.dwg
FITZGERALD S-19HU REV9
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 X 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: LEASE NO. SEE WW 16/14/2022
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 POINT PLEASANT ESTIMATED DEPTH TVD: 12,076' / TMD: 22,323'

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

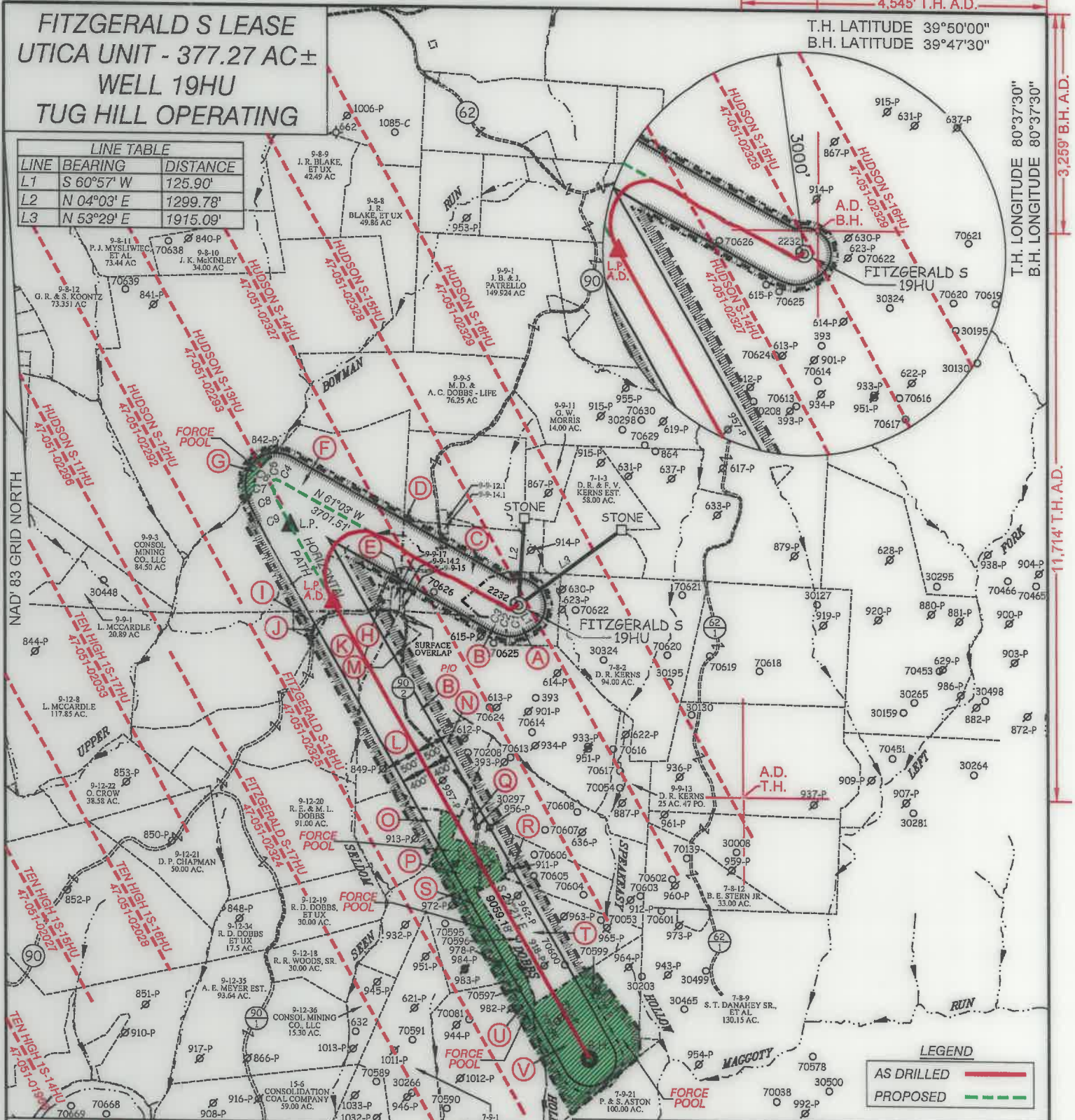
T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°37'30"
3,269' B.H. A.D.
11,714' T.H. A.D.

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

**FITZGERALD S LEASE
UTICA UNIT - 377.27 AC±
WELL 19HU
TUG HILL OPERATING**

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 60°57' W	125.90'
L2	N 04°03' E	1299.78'
L3	N 53°29' E	1915.09'



LEGEND

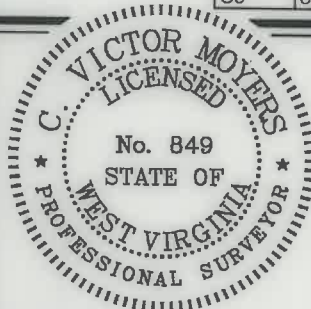
- AS DRILLED (Red solid line)
- PROPOSED (Green dashed line)

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	20.32'	41.27'	S 87°39' W	20.12'
C2	38.87'	250.60'	N 73°20' W	38.83'
C3	136.17'	1287.06'	N 64°47' W	136.11'
C4	84.83'	258.98'	N 67°28' W	84.46'
C5	40.60'	66.37'	S 82°38' W	39.97'
C6	53.81'	60.38'	S 27°39' W	52.05'
C7	88.47'	278.59'	S 06°40' E	88.10'
C8	208.62'	1139.99'	S 21°38' E	208.33'
C9	390.81'	5958.89'	S 27°34' E	390.74'

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5624
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.253.5296
slsvw.com

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

LEGEND

- UNIT BOUNDARY (Dashed line)
- LEASED TRACTS INSIDE (Hatched area)
- UNIT BOUNDARY (Dashed line)
- SURFACE LINE (Dashed line)
- PROPOSED UTICA (Red dashed line)
- WELL LATERAL (Red dashed line)
- 400' OFFSET LINE (Red dashed line)
- 500' OFFSET LINE (Red dashed line)
- TIE LINE (Dashed line)
- CREEK (Blue line with arrows)
- ROAD (Black line)
- FORCE POOL TRACT (Green hatched area)
- COUNTY ROUTE (Circle with number)
- PROPOSED WELL (Circle with crosshair)
- EXISTING WELL (Circle with dot)
- PERMITTED WELL (Circle with dot)
- SURFACE OWNER (SEE TABLE) (Circle with letter)
- LEASE # (SEE ADDITIONAL SHEETS) (Circle with letter)

SCALE 1" = 2000' FILE NO. 8910P19HUAD.dwg
 FITZGERALD S-19HU REV9
 DATE MAY 14, 20 21
 REVISED _____, 20 ____
 OPERATORS WELL NO. FITZGERALD S-19HU
 API WELL 47 - 051 - 02326
 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 DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

T.H. LONGITUDE 80°37'30" B.H. LONGITUDE 80°37'30" 3,259' B.H. A.D. 11,714' T.H. A.D.

10/14/2022

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UTICA UNIT - 377.27AC±
WELL 19HU
TUG HILL OPERATING**



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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 LP	940	448
3	PENDING	C	9-9-14	REGINA DANETTE FIGUEROA	1075	137
4	10*21859	D	9-9-12	GARY WAYNE MORRIS	980	192
5	10*19987	E	9-9-16.1	LESLEY D BALLA	955	103
6	10*19987	F	9-9-16	LESLEY D BALLA	955	103
7	**	G	9-9-4	MARY LOU RUBINI AKA MARY LOU MILLER	793	287
8	10*24535	H	9-9-22	BOARD OF EDUCATION OF MARSHALL COUNTY	1026	64
9	10*23656	I	9-12-10	ROBERT W KNIGHT AND BARBARA J KNIGHT	1011	504
10	10*15999	J	9-12-9	CHARLES W DOBBS AND JUDITH M DOBBS	702	171
11	10*15494	K	9-12-11	CHRISTOPHER SINGER AND SHEREA SINGER	898	433
12	10*19557	L	9-12-12	TERRY L BLAKE	944	649
13	10*22524	M	9-9-18	ALYCE LYNN MCGUFFIE	1027	233
14	10*21512	N	9-12-15	THE WHIPKEY TRUST ACTING TRUSTEES DAVID L AND CAROL J WHIPKEY	949	266
15	10*21512	O	9-12-16	THE WHIPKEY TRUST	949	266
16	10*21532	P	9-12-17	CHARLES E RICHARDSON AND SHIRLEY S RICHARDSON	957	327
17	10*18988	Q	7-8-4	MICHAEL R DOBBS AND LEANNE DOBBS	957	307
18	10*21112	R	7-8-5	CLARENCE C STOVER JR AND LOU E STOVER	952	382
19	10*21532	S	7-8-7	CHARLES E RICHARDSON AND SHIRLEY S RICHARDSON	1017	620
20	10*21112	T	7-8-8	CLARENCE C STOVER JR AND LOU E STOVER	952	382
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

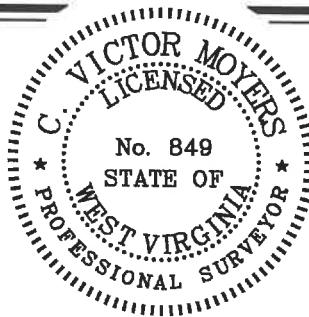
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OPERATORS WELL NO. FITZGERALD S-19HU

API WELL NO. 47 — 051 — 02326
STATE COUNTY PERMIT



STATE OF WEST VIRGINIA
DIVISION OF
ENVIRONMENTAL PROTECTION
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10/14/2022

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

DESIGNATED AGENT DIANNA STAMPER
ADDRESS CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME
PERMIT