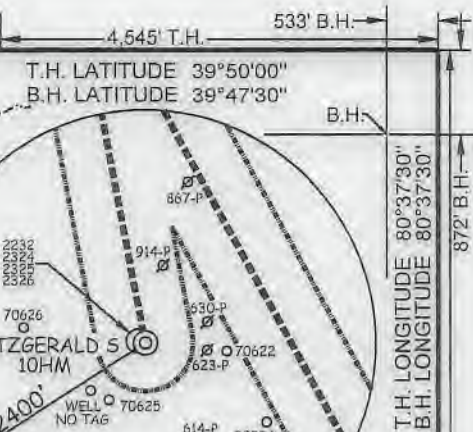
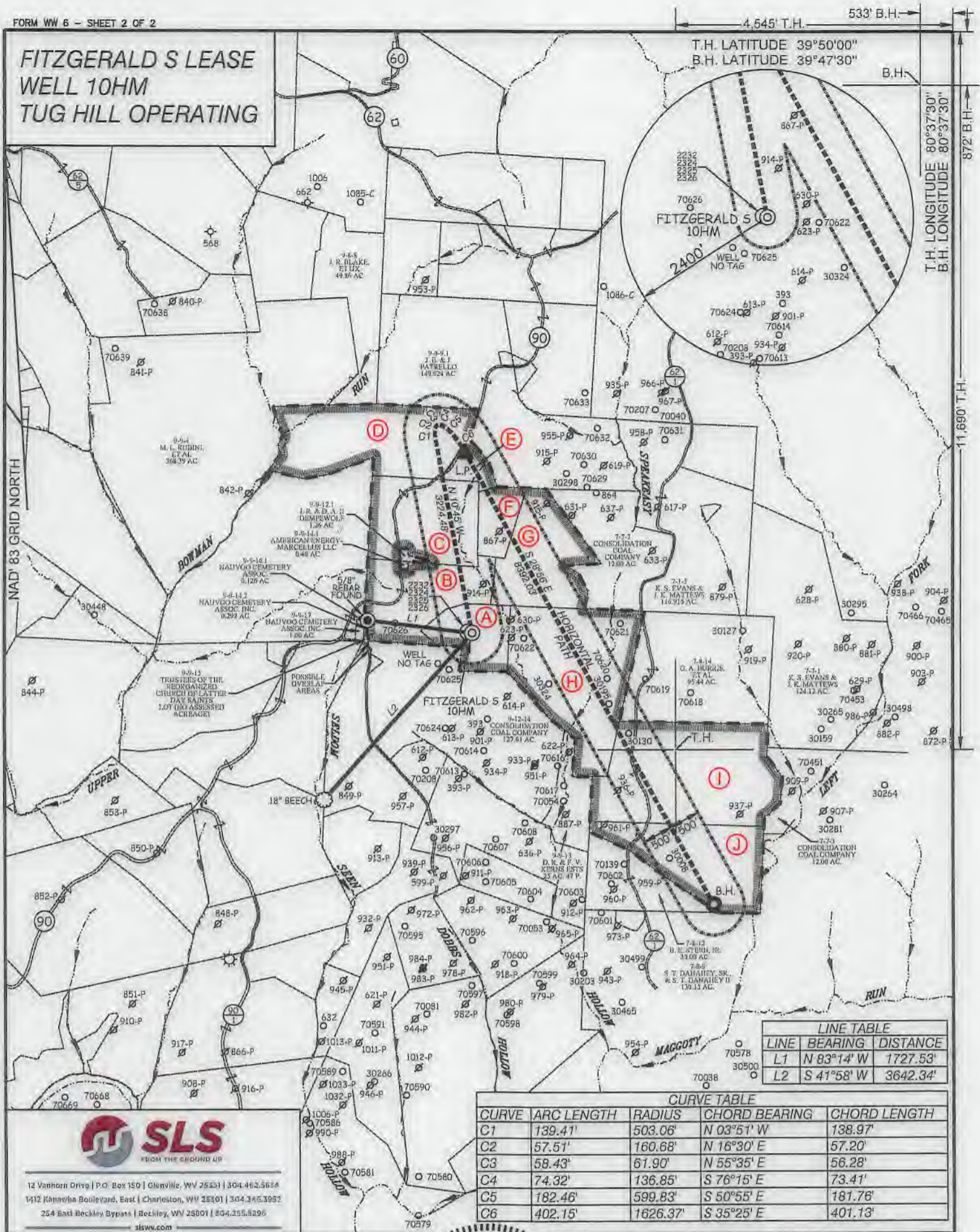


**FITZGERALD S LEASE  
WELL 10HM  
TUG HILL OPERATING**



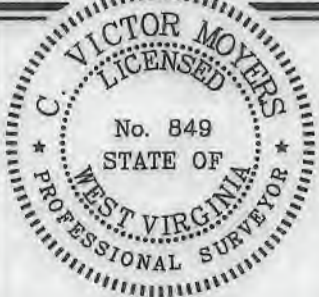
LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 83°14' W	1727.53'
L2	S 41°58' W	3642.34'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	139.41'	503.06'	N 03°51' W	138.97'
C2	57.51'	160.68'	N 16°30' E	57.20'
C3	58.43'	61.90'	N 55°35' E	56.28'
C4	74.32'	136.85'	S 76°15' E	73.41'
C5	182.46'	599.83'	S 50°55' E	181.76'
C6	402.15'	1626.37'	S 35°25' E	401.13'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 25331 | 304.462.5654  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.345.3952  
 254 East Beckley Bypass | Beckley, WV 25001 | 804.255.8296  
 slsw.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 475,990.10	E. 1,647,885.35	
NAD'83 GEO.	LAT-(N) 39.801244	LONG-(W) 80.641178	
NAD'83 UTM (M)	N. 4,405,759.15	E. 530,717.63	
LANDING POINT			
NAD'83 S.P.C.(FT)	N. 478,924.4	E. 1,647,782.3	
NAD'83 GEO.	LAT-(N) 39.809295	LONG-(W) 80.641677	
NAD'83 UTM (M)	N. 4,406,652.6	E. 530,671.3	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 471,579.8	E. 1,651,642.3	
NAD'83 GEO.	LAT-(N) 39.789274	LONG-(W) 80.628898	
NAD'83 UTM (M)	N. 4,404,435.7	E. 531,945.6	



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

P.S. *C. Victor Moyers*  
 849

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. 8910P10HMR.dwg  
 FITZGERALD S 10HM REV4  
 DATE FEBRUARY 20, 2020  
 REVISED MAY 12, 2021  
 OPERATORS WELL NO. FITZGERALD S 10HM  
 API WELL NO. 47-051-02380 #44  
 NO. STATE COUNTY PERMIT

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	ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107	CHARLESTON, WV 25313

COUNTY NAME PERMIT

07/09/2024



**FITZGERALD S LEASE  
WELL 10HM  
TUG HILL OPERATING**

4,545' T.H. 533' B.H.  
T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°47'30"

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	GARY W. MORRIS & CYNTHIA PATRELLO	9-9-12	54.69
D	MARVIN D. & ADA C. DOBBS (L/E)	9-9-5	76.25
E	MARTIN DAVIS	9-9-10	6.00
F	GARY W. MORRIS & CYNTHIA PATRELLO	9-9-11	14.00
G	DANNY R. & FRANCES V. KERNS ESTATE	7-1-3	58.00
H	DANNY R. & FRANCES V. KERNS ESTATE	7-8-2	94.00
I	BLAINE E. STERN, JR.	7-8-13	104.92
J	BLAINE E. STERN, JR.	7-8-11	60.62

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

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<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 471,579.8	E. 1,651,842.3
NAD'83 GEO.	LAT-(N) 39.789274	LONG-(W) 80.626898
NAD'83 UTM (M)	N. 4,404,435.7	E. 531,945.6

T.H. LONGITUDE 80°37'30"  
B.H. LONGITUDE 80°37'30"  
872' B.H.  
11,690' T.H.

**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'.

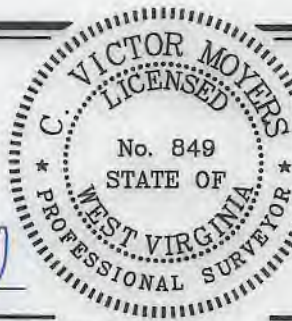


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.546.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slswv.com

**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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE FEBRUARY 20, 2020  
REVISED MAY 12, 2021  
OPERATORS WELL NO. FITZGERALD S 10HM  
API WELL NO. 47 - 051 - 02386  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8910P10HMR.dwg  
FITZGERALD S 10HM 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 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: 7,038' / TMD: 16,984'

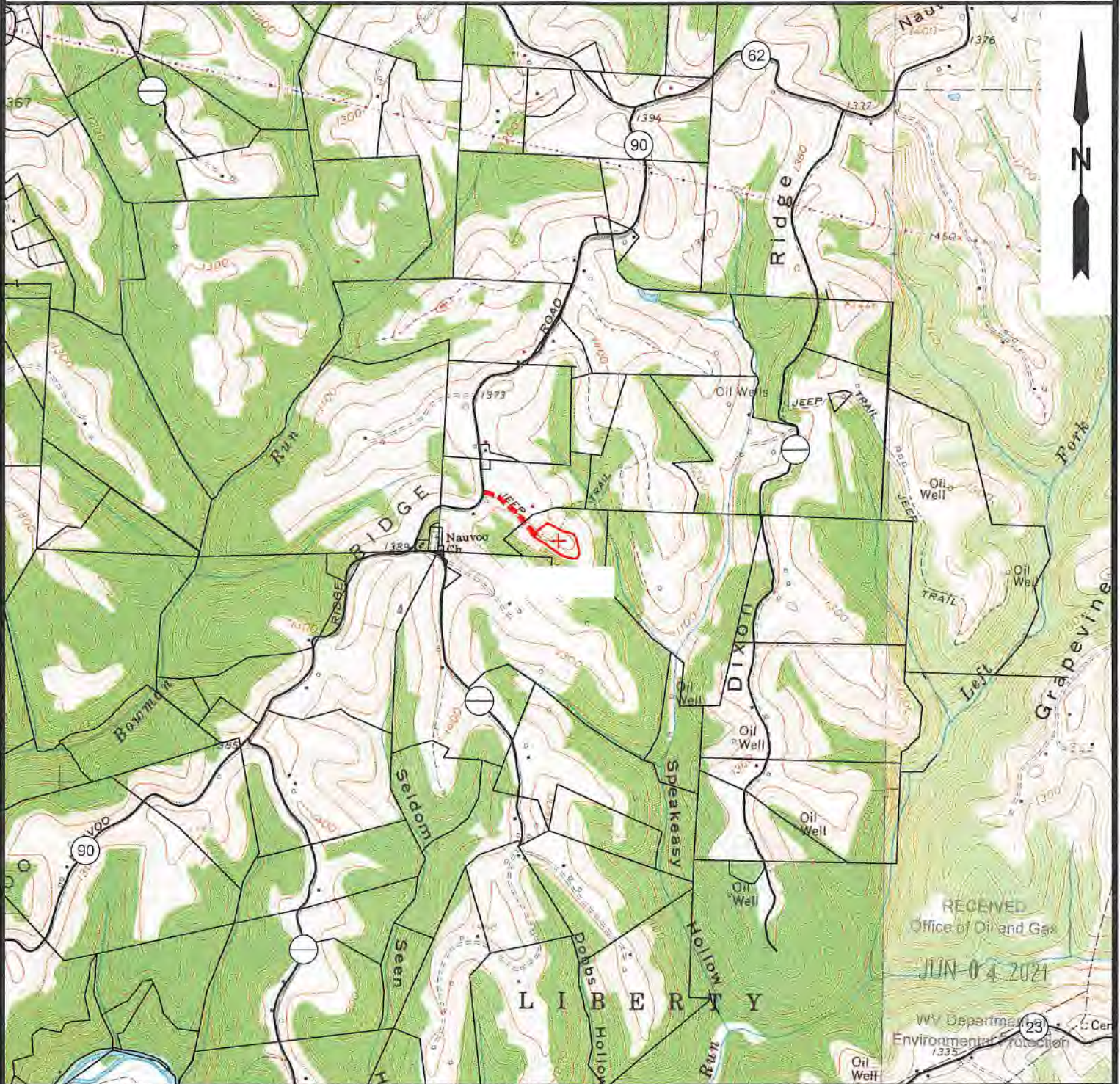
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
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FORT WORTH, TX 76107 CHARLESTON, WV 25313

07/09/2021

COUNTY NAME PERMIT



# PROPOSED FITZGERALD S - 10HM



NOTE: CLOSEST WATER PURVEYOR  
CITY OF CAMERON - FRANK WALKER RESERVOIR  
CAMDEN, WV

LAT: 39.829865  
LON: -80.573724  
LOCATED: N 62°00'46" E AT 21,684.26' FROM THE CENTER OF FITZGERALD S WELL PAD LOCATION.

RECEIVED  
Office of Oil and Gas  
JUN 04 2021  
WV Department of Environmental Protection



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5934  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3962  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slswv.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5' & CAMERON 7.5'		PREPARED FOR: TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317	
COUNTY	DISTRICT		
MARSHALL	LIBERTY & MEADE		
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8910	03/03/2020	1" = 2000'



07/09/2021