



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, March 15, 2021
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

TUG HILL OPERATING, LLC
380 SOUTHPOINTE BOULEVARD, PLAZA II
SUITE 200
CANONSBURG, PA 15317

Re: Permit Modification Approval for KNOB CREEK N-5HM
47-051-02032-00-00

Lateral Extension

TUG HILL OPERATING, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a light blue circular stamp.

James A. Martin
Chief

Operator's Well Number: KNOB CREEK N-5HM
Farm Name: DAVID LEE FRANKLIN
U.S. WELL NUMBER: 47-051-02032-00-00
Horizontal 6A New Drill
Date Modification Issued: 3/15/2021

Promoting a healthy environment.

03/19/2021



February 17, 2021

WADE STANSBERRY
WV DEP OFFICE OF OIL & GAS
601 57TH STREET SE
CHARLESTON, WV 25304-2345

VIA USPS

**RE: Knob Creek N-5HM API # 47-051-02032 (H6A Permit Modification)
Meade District, Marshall County, WV**

Dear Wade:

Tug Hill Operating, LLC is submitting a permit modification for its permitted well, Knob Creek N-5HM to add 2,125.76' to the lateral length, as well as updating the freshwater and coal casing depths. Therefore, enclosed please find the following:

- Modified WW-6B with changes highlighted in yellow
- WW-6A with certified mail receipts to notice of freshwater and coal string changes
- Updated well plat
- Updated WW-6A1 information
- Updated Site Safety Plan (The only information that has changed is the contact information for the Inspector at the contact list at the end of the Plan).

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If you have any questions or need any additional information, please do not hesitate to call me on (304) 376-0111. Thank you for attention to this matter, it is greatly appreciated.

Sincerely,

AMY MORRIS
PERMIT SPECIALIST-APPALACHIA REGION
TUG HILL OPERATING, LLC

Enclosures

Modification

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Tug Hill Operating, LLC 494510851 Marshall Meade Glen Easton 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Knob Creek N-5HM Well Pad Name: Knob Creek

3) Farm Name/Surface Owner: David Lee Franklin Public Road Access: St. Joseph Road - CR 21

4) Elevation, current ground: 737' Elevation, proposed post-construction: 737'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal _____

6) Existing Pad: Yes or No Yes

JW
10/29/2020

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus is the target formation at a depth of 6227' - 6278', thickness of 51' and an anticipated approximate pressure of 3800 psi.

8) Proposed Total Vertical Depth: 6,368'

9) Formation at Total Vertical Depth: Onondaga

10) Proposed Total Measured Depth: 12,588'

11) Proposed Horizontal Leg Length: 5,406.76'

12) Approximate Fresh Water Strata Depths: 70'; 380'

13) Method to Determine Fresh Water Depths: Use shallow offset wells to determine deepest freshwater, or determine using pre-drill tests, testing while drilling or petrophysical evaluation of resistivity.

14) Approximate Saltwater Depths: 1,740'

15) Approximate Coal Seam Depths: Sewickley Coal - 292' and Pittsburgh Coal - 374'

16) Approximate Depth to Possible Void (coal mine, karst, other): None

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

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(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

WW-6B
(04/15)

API NO. 47-051 - 02032 *Med*
 OPERATOR WELL NO. Knob Creek N-5HM
 Well Pad Name: Knob Creek

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259ft ³ (CTS)
Fresh Water	13 3/8"	NEW	J55	54.5#	480'	480'	683ft ³ (CTS)
Coal	13 3/8"	NEW	J55	54.5#	480'	480'	683ft ³ (CTS)
Intermediate	9 5/8"	NEW	J55	36#	2,303'	2,303'	745ft ³ (CTS)
Production	5 1/2"	NEW	P110	20#	12,588'	12,588'	3225ft ³ (CTS)
Tubing	2 3/8"	NEW	N80	4.7#	6,796'		
Liners							

see 1/2/2020

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water	13 3/8"	17.5"	.33	2,740	2,192	SEE #24	1.2
Coal	13 3/8"	17.5"	.33	2,740	2,192	SEE #24	1.2
Intermediate	9 5/8"	12 1/4"	.352	3,520	2,816	SEE #24	1.19
Production	5 1/2"	8 7/8" _ 8 3/4"	.361	12,640	10,112	SEE #24	1.17/1.19
Tubing	2 3/8"		.19	11,200	8,960		
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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WW-6B
(10/14)

API NO. 47-051 - 02032 Mod
OPERATOR WELL NO. Knob Creek N-5HM
Well Pad Name: Knob Creek

MJ
10/29/2020

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill through the Marcellus tagging less than 100' from the top of the Onondaga to get depths and log data. Plug back to proposed kick off point. Drill the horizontal section to planned and proposed TD. Run casing and cement to surface. Run Bond Log from app. 60 deg to surface. Make clean out run and stimulate.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well to completed with approximately 13,500,000 lb. proppant and 240,000 barrels of water. Max rate = 80bpm; max psi = 9,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 11.58 acres

22) Area to be disturbed for well pad only, less access road (acres): 5.55 acres

23) Describe centralizer placement for each casing string:

Will run 3 centralizers on surface casing at equal distance. Intermediate will have 1 centralizer every other joint. Production casing will have one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

24) Describe all cement additives associated with each cement type:

*See attachment

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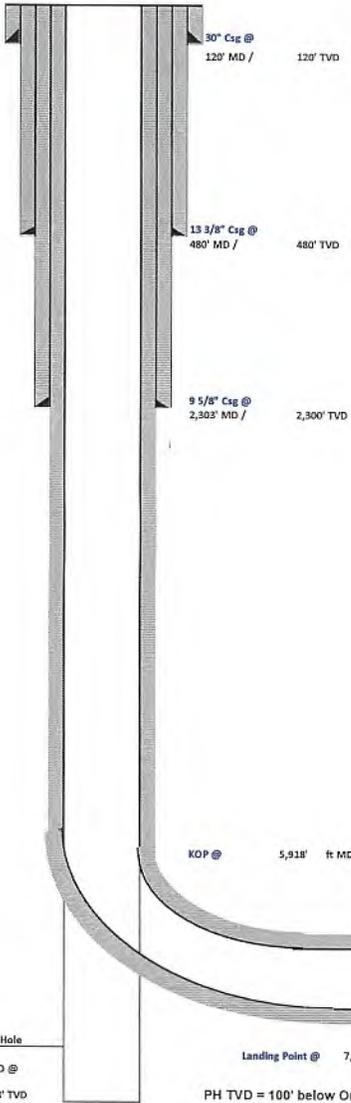
25) Proposed borehole conditioning procedures:

Will circulate a minimum of 3 hours at TD, short trip to curve, circulate bottoms up, check for flow, POOH.

*Note: Attach additional sheets as needed.



WELL NAME: Knob Creek N-5HM
 STATE: WV COUNTY: Marshall
 DISTRICT: Meade
 DF Elev: 737' GL Elev: 737'
 TD: 12,588'
 TH Latitude: 39.76994388
 TH Longitude: -80.70552591
 BH Latitude: 39.784396
 BH Longitude: -80.709237



FORMATION TOPS	
Formation	Depth TVD
Deepest Fresh Water	380
Sewickley Coal	292
Pittsburgh Coal	374
Big Lime	1721
Weir	2022
Berea	2207
Gordon	2470
Rhinestreet	5584
Genesee/Burkett	6096
Tully	6125
Hamilton	6159
Marcellus	6227
Landing Depth	6262
Onondaga	6278
Pilot Hole Depth	6378

CASING SUMMARY							
Type	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cement
Conductor	36	30	120'	120'	BW	BW	Surface
Surface	17.5	13 3/8	480'	480'	54.5	J55	Surface
Intermediate 1	12 1/4	9 5/8	2,303'	2,300'	36	J55	Surface
Production	8 7/8 x 8 3/4	5 1/2	12,588'	5,259'	20	CYHP110	Surface

CEMENT SUMMARY				DRILLING DETAILS	
	Sacks	Class	Density	Fluid Type	Centralizer Notes
Conductor	338	A	15.6	Air	None
Surface	661	A	15.6	Air	3 Centralizers at equal distance
Intermediate 1	784	A	15	Air	1 Centralizer every other Jt
Production	2,959	A	14.5	Air / SOBMM	1 every other joint in lateral; 1 per joint in curve; 1 every other Jt to sfc

Jim
10/29/2020

Pilot Hole
 PH TD @ 6,378' TVD
 Landing Point @ 7,183' MD / 5,262' TVD
 PH TVD = 100' below Onondaga Top

Lateral TD @ 12,588' ft MD
 5,259' ft TVD

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Tug Hill Operating, LLC Casing and Cement Program

Knob Creek N-5HM

Casing

	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	13 3/8"	J55	17 1/2"	480'	CTS
Intermediate	9 5/8"	J55	12 1/4"	2,303'	CTS
Production	5 1/2"	CYHP110	8 7/8 x 8 3/4	12,588'	CTS

Cement

Conductor: Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Conductor Cement mixed at 15.6 ppg, Y=1.2

Surface: Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Surface Cement mixed at 15.6 ppg, Y=1.2

Intermediate: Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.19

Kick Off Plug: Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L - KOP Plug

Production: 50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-170, 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L – Production Cement mixed at 15.2ppg, Y = 1.19

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Well: Knob Creek N-05HM (slot I)
 Site: Knob Creek
 Project: Marshall County, West Virginia.
 Design: rev5



Azimuths to Grid North
 True North: -0.19°
 Magnetic North: -8.88°

Magnetic Field
 Strength: 52139.6snT
 Dip Angle: 66.92°
 Date: 9/18/2017
 Model: IGRF2015

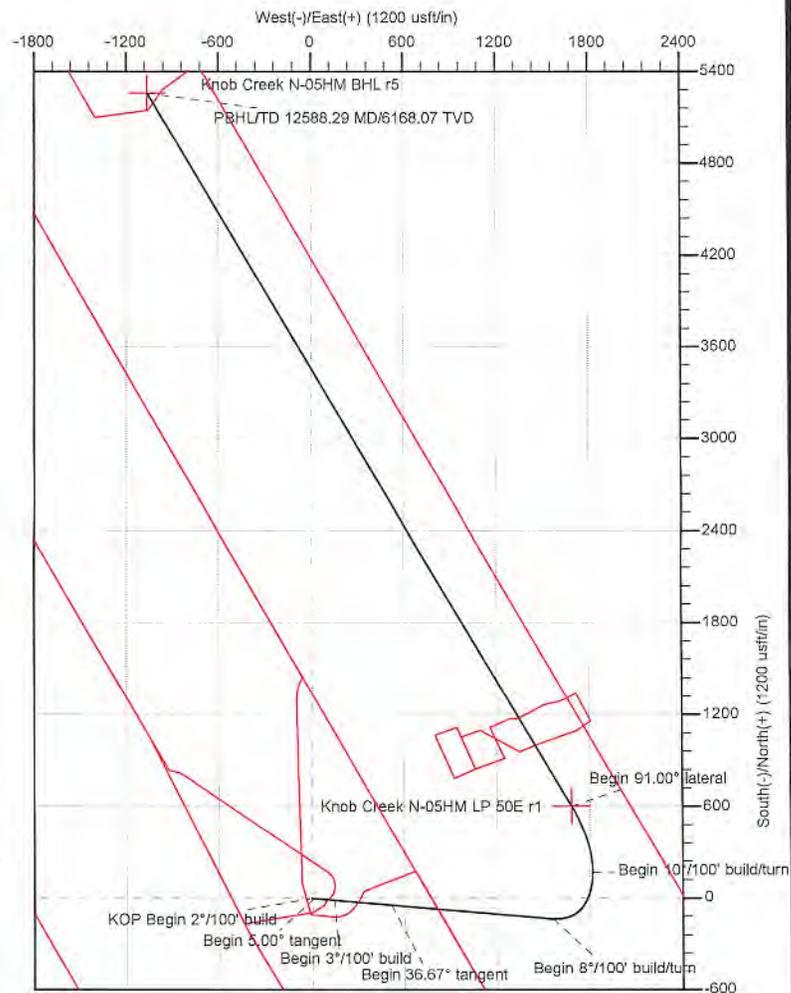
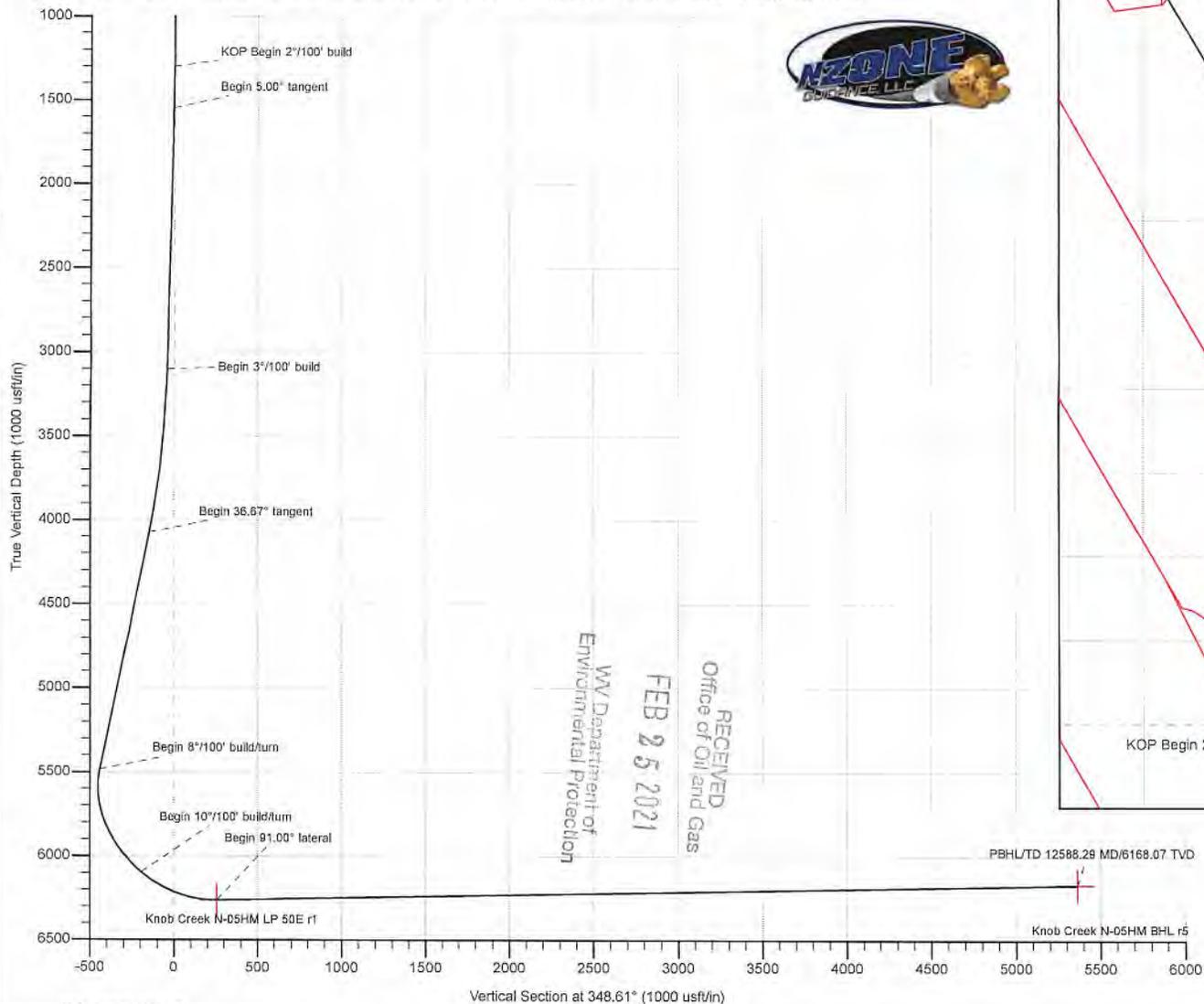
Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD83 West Virginia - HARN
 Ellipsoid: GRS 1980
 Zone: Zone 17N (84 W to 78 W)

System Datum: Mean Sea Level
 Depth Reference: GL=737 @ 737.00usft
 Surface location
 Northing: 14443098.44
 Easting: 1723160.57
 Latitude: 39.76994388
 Longitude: -80.70552591

Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Subtract 8.881°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSec	Annotation
1	0.00		0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 2°/100' build
3	1550.00	5.00	94.93	1549.68	-0.94	10.86	2.00	94.930	-3.06	Begin 5.00° tangent
4	3106.24	5.00	94.93	3100.00	-12.59	145.99	0.00	0.000	-41.19	Begin 3°/100' build
5	4161.82	36.67	94.93	4074.06	-44.45	515.29	3.00	0.001	-145.38	Begin 36.67° tangent
6	5918.42	36.67	94.93	5483.05	-134.62	1560.40	0.00	0.000	-440.24	Begin 8°/100' build/turn
7	6683.74	50.00	0.64	6095.36	168.24	1816.15	8.00	-119.365	-193.88	Begin 10°/100' build/turn
8	7182.53	91.00	329.50	6261.99	601.87	1683.23	10.00	-42.542	257.47	Begin 91.00° lateral
9	12588.29	91.00	329.50	6168.07	5259.00	-1059.86	0.00	0.000	5364.74	PBHL/TD 12588.29 MD/6168.07 TVD





Planning Report - Geographic

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well Knob Creek N-05HM (slot I)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=737 @ 737.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL=737 @ 737.00usft
Site:	Knob Creek	North Reference:	Grid
Well:	Knob Creek N-05HM (slot I)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev5		

Project	Marshall County, West Virginia.		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD83 West Virginia - HARN		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Knob Creek				
Site Position:		Northing:	14,443,053.74 usft	Latitude:	39.76982148
From:	Lat/Long	Easting:	1,723,120.29 usft	Longitude:	-80.70566975
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.188 °

Well	Knob Creek N-05HM (slot I)					
Well Position	+N/-S	0.00 usft	Northing:	14,443,098.44 usft	Latitude:	39.76994388
	+E/-W	0.00 usft	Easting:	1,723,160.57 usft	Longitude:	-80.70552591
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	737.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/19/2017	-8.693	66.922	52,139.55557511

Design	rev5			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	348.61

Plan Survey Tool Program	Date	8/19/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,588.29 rev5 (Original Hole)	MWD	MWD - Standard

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Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,550.00	5.00	94.93	1,549.68	-0.94	10.86	2.00	2.00	0.00	94.930	
3,106.24	5.00	94.93	3,100.00	-12.59	145.99	0.00	0.00	0.00	0.000	
4,161.82	36.67	94.93	4,074.06	-44.45	515.29	3.00	3.00	0.00	0.001	
5,918.42	36.67	94.93	5,483.05	-134.62	1,560.40	0.00	0.00	0.00	0.000	
6,683.74	50.00	0.64	6,095.36	168.24	1,816.15	8.00	1.74	-12.32	-119.365	
7,182.53	91.00	329.50	6,261.99	601.87	1,683.23	10.00	8.22	-6.24	-42.542	
12,588.29	91.00	329.50	6,168.07	5,259.00	-1,059.86	0.00	0.00	0.00	0.000	Knob Creek N-05HM



Planning Report - Geographic

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well Knob Creek N-05HM (slot I)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=737 @ 737.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL=737 @ 737.00usft
Site:	Knob Creek	North Reference:	Grid
Well:	Knob Creek N-05HM (slot I)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev5		

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
100.00	0.00	0.00	100.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
200.00	0.00	0.00	200.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
300.00	0.00	0.00	300.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
400.00	0.00	0.00	400.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
500.00	0.00	0.00	500.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
600.00	0.00	0.00	600.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
700.00	0.00	0.00	700.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
800.00	0.00	0.00	800.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
900.00	0.00	0.00	900.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,443,098.44	1,723,160.57	39.76994388	-80.70552591
KOP Begin 2°/100' build									
1,400.00	2.00	94.93	1,399.98	-0.15	1.74	14,443,098.29	1,723,162.30	39.76994345	-80.70551972
1,500.00	4.00	94.93	1,499.83	-0.60	6.85	14,443,097.84	1,723,167.52	39.76994217	-80.70550117
1,550.00	5.00	94.93	1,549.68	-0.94	10.86	14,443,097.50	1,723,171.43	39.76994121	-80.70548727
Begin 5.00° tangent									
1,600.00	5.00	94.93	1,599.49	-1.31	15.20	14,443,097.13	1,723,175.77	39.76994014	-80.70547182
1,700.00	5.00	94.93	1,699.11	-2.06	23.89	14,443,096.38	1,723,184.45	39.76993801	-80.70544093
1,800.00	5.00	94.93	1,798.73	-2.81	32.57	14,443,095.63	1,723,193.14	39.76993587	-80.70541004
1,900.00	5.00	94.93	1,898.35	-3.56	41.25	14,443,094.88	1,723,201.82	39.76993374	-80.70537914
2,000.00	5.00	94.93	1,997.97	-4.31	49.94	14,443,094.13	1,723,210.50	39.76993160	-80.70534825
2,100.00	5.00	94.93	2,097.59	-5.06	58.62	14,443,093.38	1,723,219.19	39.76992947	-80.70531736
2,200.00	5.00	94.93	2,197.21	-5.81	67.30	14,443,092.63	1,723,227.87	39.76992733	-80.70528646
2,300.00	5.00	94.93	2,296.82	-6.55	75.99	14,443,091.88	1,723,236.55	39.76992520	-80.70525557
2,400.00	5.00	94.93	2,396.44	-7.30	84.67	14,443,091.13	1,723,245.23	39.76992306	-80.70522467
2,500.00	5.00	94.93	2,496.06	-8.05	93.35	14,443,090.39	1,723,253.92	39.76992092	-80.70519378
2,599.99	5.00	94.93	2,595.68	-8.80	102.04	14,443,089.64	1,723,262.60	39.76991879	-80.70516289
2,699.99	5.00	94.93	2,695.30	-9.55	110.72	14,443,088.89	1,723,271.28	39.76991665	-80.70513199
2,799.99	5.00	94.93	2,794.92	-10.30	119.40	14,443,088.14	1,723,279.97	39.76991452	-80.70510110
2,899.99	5.00	94.93	2,894.54	-11.05	128.09	14,443,087.39	1,723,288.65	39.76991238	-80.70507021
2,999.99	5.00	94.93	2,994.16	-11.80	136.77	14,443,086.64	1,723,297.33	39.76991025	-80.70503931
3,099.99	5.00	94.93	3,093.78	-12.55	145.45	14,443,085.89	1,723,306.02	39.76990811	-80.70500842
3,106.24	5.00	94.93	3,100.00	-12.59	145.99	14,443,085.85	1,723,306.56	39.76990798	-80.70500649
Begin 3°/100' build									
3,199.99	7.81	94.93	3,193.16	-13.49	156.42	14,443,084.95	1,723,316.98	39.76990542	-80.70496941
3,299.99	10.81	94.93	3,291.83	-14.88	172.54	14,443,083.56	1,723,333.10	39.76990145	-80.70491206
3,399.99	13.81	94.93	3,389.52	-16.72	193.78	14,443,081.72	1,723,354.35	39.76989623	-80.70483648
3,499.99	16.81	94.93	3,485.96	-18.98	220.09	14,443,079.45	1,723,380.65	39.76988975	-80.70474288
3,599.99	19.81	94.93	3,580.88	-21.69	251.39	14,443,076.75	1,723,411.95	39.76988206	-80.70463152
3,699.99	22.81	94.93	3,674.03	-24.81	287.59	14,443,073.63	1,723,448.16	39.76987315	-80.70450271
3,799.99	25.81	94.93	3,765.15	-28.35	328.81	14,443,070.09	1,723,489.17	39.76986306	-80.70435679
3,899.99	28.81	94.93	3,853.99	-32.29	374.32	14,443,066.15	1,723,534.88	39.76985182	-80.70419416
3,999.99	31.81	94.93	3,940.31	-36.63	424.60	14,443,061.81	1,723,585.16	39.76983945	-80.70401528
4,099.99	34.81	94.93	4,023.87	-41.35	479.31	14,443,057.09	1,723,639.87	39.76982599	-80.70382063
4,161.82	36.67	94.93	4,074.05	-44.45	515.29	14,443,053.99	1,723,675.85	39.76981714	-80.70369262
Begin 36.67° tangent									
4,199.99	36.67	94.93	4,104.67	-46.41	538.00	14,443,052.03	1,723,698.56	39.76981155	-80.70361182
4,299.99	36.67	94.93	4,184.88	-51.54	597.49	14,443,046.89	1,723,758.06	39.76979691	-80.70340015
4,399.99	36.67	94.93	4,265.09	-56.68	656.99	14,443,041.76	1,723,817.56	39.76978227	-80.70318847
4,499.99	36.67	94.93	4,345.31	-61.81	716.49	14,443,036.63	1,723,877.05	39.76976764	-80.70297680
4,599.99	36.67	94.93	4,425.52	-66.94	775.98	14,443,031.49	1,723,936.55	39.76975300	-80.70276513



Planning Report - Geographic

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well Knob Creek N-05HM (slot I)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=737 @ 737.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL=737 @ 737.00usft
Site:	Knob Creek	North Reference:	Grid
Well:	Knob Creek N-05HM (slot I)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev5		

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FEB 25 2021

W.D. Department of
Environmental Protection

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,699.99	36.67	94.93	4,505.73	-72.08	835.48	14,443,026.36	1,723,996.04	39.76973836	-80.70255345
4,799.99	36.67	94.93	4,585.94	-77.21	894.97	14,443,021.23	1,724,055.54	39.76972372	-80.70234178
4,899.99	36.67	94.93	4,666.15	-82.34	954.47	14,443,016.10	1,724,115.04	39.76970908	-80.70213010
4,999.99	36.67	94.93	4,746.36	-87.48	1,013.97	14,443,010.96	1,724,174.53	39.76969444	-80.70191843
5,099.99	36.67	94.93	4,826.57	-92.61	1,073.46	14,443,005.83	1,724,234.03	39.76967980	-80.70170676
5,199.99	36.67	94.93	4,906.78	-97.74	1,132.96	14,443,000.70	1,724,293.52	39.76966516	-80.70149508
5,299.99	36.67	94.93	4,987.00	-102.87	1,192.45	14,442,995.56	1,724,353.02	39.76965052	-80.70128341
5,399.99	36.67	94.93	5,067.21	-108.01	1,251.95	14,442,990.43	1,724,412.51	39.76963588	-80.70107174
5,499.99	36.67	94.93	5,147.42	-113.14	1,311.44	14,442,985.30	1,724,472.01	39.76962123	-80.70086006
5,599.99	36.67	94.93	5,227.63	-118.27	1,370.94	14,442,980.17	1,724,531.51	39.76960659	-80.70064839
5,699.99	36.67	94.93	5,307.84	-123.41	1,430.44	14,442,975.03	1,724,591.00	39.76959195	-80.70043672
5,799.99	36.67	94.93	5,388.05	-128.54	1,489.93	14,442,969.90	1,724,650.50	39.76957731	-80.70022504
5,899.99	36.67	94.93	5,468.26	-133.67	1,549.43	14,442,964.77	1,724,709.99	39.76956266	-80.70001337
5,918.42	36.67	94.93	5,483.05	-134.62	1,560.39	14,442,963.82	1,724,720.96	39.76955996	-80.69997436
Begin 8°/100' build/tum									
5,999.99	33.88	84.70	5,549.69	-134.61	1,607.35	14,442,963.83	1,724,767.92	39.76955955	-80.69980726
6,099.99	31.80	70.42	5,633.83	-123.19	1,660.01	14,442,975.25	1,724,820.58	39.76959044	-80.69961971
6,199.99	31.45	55.15	5,719.12	-99.41	1,708.32	14,442,999.03	1,724,866.88	39.76965531	-80.69945464
6,299.99	32.89	40.33	5,803.90	-63.75	1,745.36	14,443,034.69	1,724,905.93	39.76975289	-80.69931525
6,399.99	35.91	27.19	5,886.52	-18.89	1,776.39	14,443,081.55	1,724,936.95	39.76988130	-80.69920428
6,499.99	40.15	16.15	5,965.36	40.26	1,798.79	14,443,138.70	1,724,959.36	39.77003803	-80.69912386
6,599.99	45.25	7.05	6,038.90	106.58	1,812.14	14,443,205.01	1,724,972.70	39.77022002	-80.69907557
6,683.74	50.00	0.64	6,095.36	168.24	1,816.15	14,443,266.68	1,724,976.72	39.77038933	-80.69906056
Begin 10°/100' build/tum									
6,699.99	51.21	359.23	6,105.67	180.79	1,816.13	14,443,279.23	1,724,976.70	39.77042381	-80.69906046
6,799.99	58.94	351.49	6,162.94	262.33	1,809.25	14,443,360.77	1,724,969.82	39.77064779	-80.69908397
6,899.99	67.07	344.94	6,208.32	349.38	1,790.91	14,443,447.82	1,724,951.47	39.77088703	-80.69914823
6,999.99	75.44	339.15	6,240.45	439.30	1,761.65	14,443,537.74	1,724,922.21	39.77113425	-80.69925128
7,099.99	83.94	333.79	6,258.35	529.37	1,722.37	14,443,627.80	1,724,882.93	39.77138195	-80.69939001
7,182.53	91.00	329.50	6,261.99	601.87	1,683.23	14,443,700.31	1,724,843.79	39.77158142	-80.69952842
Begin 91.00° lateral									
7,199.99	91.00	329.50	6,261.69	616.91	1,674.37	14,443,715.35	1,724,834.94	39.77162280	-80.69955977
7,299.99	91.00	329.50	6,259.95	703.06	1,623.63	14,443,801.50	1,724,784.19	39.77185987	-80.69973933
7,399.99	91.00	329.50	6,258.22	789.21	1,572.88	14,443,887.65	1,724,733.45	39.77209693	-80.69991890
7,499.99	91.00	329.50	6,256.48	875.36	1,522.14	14,443,973.80	1,724,682.71	39.77233399	-80.70009846
7,599.98	91.00	329.50	6,254.74	961.51	1,471.40	14,444,059.95	1,724,631.96	39.77257105	-80.70027803
7,699.98	91.00	329.50	6,253.00	1,047.66	1,420.65	14,444,146.10	1,724,581.22	39.77280811	-80.70045760
7,799.98	91.00	329.50	6,251.27	1,133.82	1,369.91	14,444,232.25	1,724,530.47	39.77304517	-80.70063717
7,899.98	91.00	329.50	6,249.53	1,219.97	1,319.16	14,444,318.40	1,724,479.73	39.77328223	-80.70081674
7,999.98	91.00	329.50	6,247.79	1,306.12	1,268.42	14,444,404.56	1,724,428.99	39.77351928	-80.70099631
8,099.98	91.00	329.50	6,246.05	1,392.27	1,217.68	14,444,490.71	1,724,378.24	39.77375634	-80.70117589
8,199.98	91.00	329.50	6,244.32	1,478.42	1,166.93	14,444,576.86	1,724,327.50	39.77399340	-80.70135546
8,299.98	91.00	329.50	6,242.58	1,564.57	1,116.19	14,444,663.01	1,724,276.76	39.77423046	-80.70153504
8,399.98	91.00	329.50	6,240.84	1,650.72	1,065.45	14,444,749.16	1,724,226.01	39.77446752	-80.70171462
8,499.98	91.00	329.50	6,239.10	1,736.87	1,014.70	14,444,835.31	1,724,175.27	39.77470458	-80.70189420
8,599.98	91.00	329.50	6,237.37	1,823.02	963.96	14,444,921.46	1,724,124.52	39.77494163	-80.70207378
8,699.98	91.00	329.50	6,235.63	1,909.18	913.22	14,445,007.61	1,724,073.78	39.77517869	-80.70225336
8,799.98	91.00	329.50	6,233.89	1,995.33	862.47	14,445,093.76	1,724,023.04	39.77541575	-80.70243294
8,899.98	91.00	329.50	6,232.15	2,081.48	811.73	14,445,179.92	1,723,972.29	39.77565280	-80.70261252
8,999.98	91.00	329.50	6,230.42	2,167.63	760.98	14,445,266.07	1,723,921.55	39.77588986	-80.70279211
9,099.98	91.00	329.50	6,228.68	2,253.78	710.24	14,445,352.22	1,723,870.81	39.77612692	-80.70297169
9,199.98	91.00	329.50	6,226.94	2,339.93	659.50	14,445,438.37	1,723,820.06	39.77636397	-80.70315128
9,299.98	91.00	329.50	6,225.20	2,426.08	608.75	14,445,524.52	1,723,769.32	39.77660103	-80.70333087
9,399.98	91.00	329.50	6,223.47	2,512.23	558.01	14,445,610.67	1,723,718.57	39.77683808	-80.70351046



Planning Report - Geographic

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well Knob Creek N-05HM (slot I)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=737 @ 737.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL=737 @ 737.00usft
Site:	Knob Creek	North Reference:	Grid
Well:	Knob Creek N-05HM (slot I)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev5		

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FEB 25 2021
WV Department of
Environmental Protection

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,499.98	91.00	329.50	6,221.73	2,598.38	507.27	14,445,696.82	1,723,667.83	39.77707514	-80.70369005
9,599.98	91.00	329.50	6,219.99	2,684.54	456.52	14,445,782.97	1,723,617.09	39.77731219	-80.70386964
9,699.98	91.00	329.50	6,218.25	2,770.69	405.78	14,445,869.12	1,723,566.34	39.77754925	-80.70404924
9,799.98	91.00	329.50	6,216.52	2,856.84	355.03	14,445,955.28	1,723,515.60	39.77778630	-80.70422883
9,899.98	91.00	329.50	6,214.78	2,942.99	304.29	14,446,041.43	1,723,464.86	39.77802335	-80.70440843
9,999.98	91.00	329.50	6,213.04	3,029.14	253.55	14,446,127.58	1,723,414.11	39.77826041	-80.70458803
10,099.98	91.00	329.50	6,211.30	3,115.29	202.80	14,446,213.73	1,723,363.37	39.77849746	-80.70476762
10,199.98	91.00	329.50	6,209.57	3,201.44	152.06	14,446,299.88	1,723,312.62	39.77873451	-80.70494722
10,299.98	91.00	329.50	6,207.83	3,287.59	101.32	14,446,386.03	1,723,261.88	39.77897156	-80.70512683
10,399.98	91.00	329.50	6,206.09	3,373.74	50.57	14,446,472.18	1,723,211.14	39.77920862	-80.70530643
10,499.98	91.00	329.50	6,204.35	3,459.90	-0.17	14,446,558.33	1,723,160.39	39.77944567	-80.70548603
10,599.98	91.00	329.50	6,202.62	3,546.05	-50.92	14,446,644.48	1,723,109.65	39.77968272	-80.70566564
10,699.98	91.00	329.50	6,200.88	3,632.20	-101.66	14,446,730.64	1,723,058.91	39.77991977	-80.70584524
10,799.98	91.00	329.50	6,199.14	3,718.35	-152.40	14,446,816.79	1,723,008.16	39.78015682	-80.70602485
10,899.98	91.00	329.50	6,197.40	3,804.50	-203.15	14,446,902.94	1,722,957.42	39.78039387	-80.70620446
10,999.98	91.00	329.50	6,195.67	3,890.65	-253.89	14,446,989.09	1,722,906.67	39.78063092	-80.70638407
11,099.98	91.00	329.50	6,193.93	3,976.80	-304.63	14,447,075.24	1,722,855.93	39.78086798	-80.70656368
11,199.98	91.00	329.50	6,192.19	4,062.95	-355.38	14,447,161.39	1,722,805.19	39.78110503	-80.70674329
11,299.98	91.00	329.50	6,190.45	4,149.10	-406.12	14,447,247.54	1,722,754.44	39.78134207	-80.70692290
11,399.98	91.00	329.50	6,188.72	4,235.26	-456.87	14,447,333.69	1,722,703.70	39.78157912	-80.70710252
11,499.98	91.00	329.50	6,186.98	4,321.41	-507.61	14,447,419.84	1,722,652.96	39.78181617	-80.70728213
11,599.98	91.00	329.50	6,185.24	4,407.56	-558.35	14,447,506.00	1,722,602.21	39.78205322	-80.70746175
11,699.98	91.00	329.50	6,183.50	4,493.71	-609.10	14,447,592.15	1,722,551.47	39.78229027	-80.70764137
11,799.98	91.00	329.50	6,181.77	4,579.86	-659.84	14,447,678.30	1,722,500.73	39.78252732	-80.70782099
11,899.98	91.00	329.50	6,180.03	4,666.01	-710.58	14,447,764.45	1,722,449.98	39.78276437	-80.70800061
11,999.98	91.00	329.50	6,178.29	4,752.16	-761.33	14,447,850.60	1,722,399.24	39.78300141	-80.70818023
12,099.98	91.00	329.50	6,176.55	4,838.31	-812.07	14,447,936.75	1,722,348.49	39.78323846	-80.70835985
12,199.98	91.00	329.50	6,174.82	4,924.46	-862.82	14,448,022.90	1,722,297.75	39.78347551	-80.70853948
12,299.98	91.00	329.50	6,173.08	5,010.62	-913.56	14,448,109.05	1,722,247.01	39.78371256	-80.70871910
12,399.98	91.00	329.50	6,171.34	5,096.77	-964.30	14,448,195.20	1,722,196.26	39.78394960	-80.70889873
12,499.98	91.00	329.50	6,169.60	5,182.92	-1,015.05	14,448,281.36	1,722,145.52	39.78418665	-80.70907836
12,588.29	91.00	329.50	6,168.07	5,259.00	-1,059.86	14,448,357.44	1,722,100.70	39.78439600	-80.70923700

PBHL/TD 12588.29 MD/6168.07 TVD

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Knob Creek N-05HM BH - hit/miss target - Shape - Point	0.00	0.00	6,168.07	5,259.00	-1,059.86	14,448,357.44	1,722,100.70	39.78439600	-80.70923700
Knob Creek N-05HM LP - plan misses target center by 0.10usft at 7182.48usft MD (6261.99 TVD, 601.83 N, 1683.25 E) - Point	0.00	0.00	6,262.00	601.78	1,683.16	14,443,700.22	1,724,843.73	39.77158117	-80.69952866



Planning Report - Geographic

Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well Knob Creek N-05HM (slot I)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=737 @ 737.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL=737 @ 737.00usft
Site:	Knob Creek	North Reference:	Grid
Well:	Knob Creek N-05HM (slot I)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev5		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,300.00	1,300.00	0.00	0.00	KOP Begin 2°/100' build
1,550.00	1,549.68	-0.94	10.86	Begin 5.00° tangent
3,106.24	3,100.00	-12.59	145.99	Begin 3°/100' build
4,161.82	4,074.05	-44.45	515.29	Begin 36.67° tangent
5,918.42	5,483.05	-134.62	1,560.39	Begin 8°/100' build/turn
6,683.74	6,095.36	168.24	1,816.15	Begin 10°/100' build/turn
7,182.53	6,261.99	601.87	1,683.23	Begin 91.00° lateral
12,588.29	6,168.07	5,259.00	-1,059.86	PBHL/TD 12588.29 MD/6168.07 TVD

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Well Site Safety Plan

Tug Hill Operating, LLC

DM
16/29/2020

Well Name: Knob Creek N-5HM

Pad Location: Knob Creek Pad

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:

Northing: 4,402,265.21

Easting: 525,220.39

October 2020

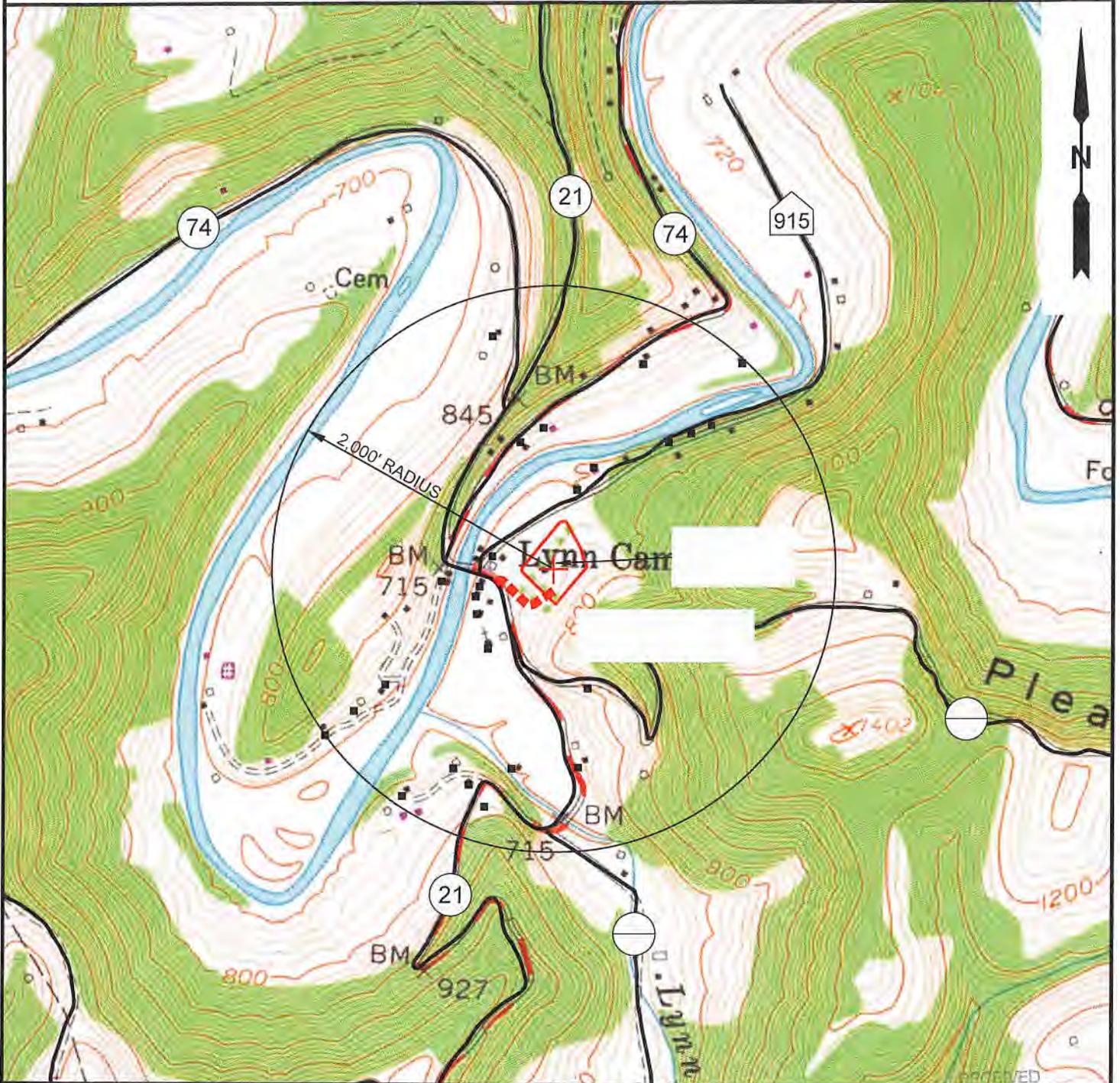
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Environmental Protection

03/19/2021

PROPOSED KNOB CREEK 1N - 5HM



NOTE: THERE APPEARS TO BE TWENTY-SIX (26) POSSIBLE WATER SOURCES WITHIN 2,000'.

Office of Oil and Gas

FEB 25 2021

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TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
		SUITE 200	
		CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8789	04/11/2018	1" = 1000'

WV Department of Energy
TUG HILL
OPERATING

03/19/2021

**KNOB CREEK N LEASE
WELL 5HM
TUG HILL OPERATING**

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

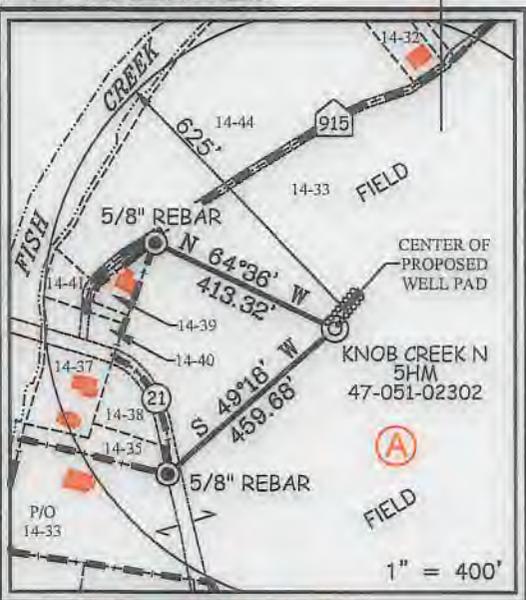
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 464,826.26	E. 1,629,654.71
NAD'83 GEO.	LAT-(N) 39.769944	LONG-(W) 80.705526
NAD'83 UTM (M)	N. 4,402,265.21	E. 525,220.39
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 465,400.1	E. 1,631,348.3
NAD'83 GEO.	LAT-(N) 39.771581	LONG-(W) 80.699528
NAD'83 UTM (M)	N. 4,402,448.7	E. 525,733.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 470,104.0	E. 1,628,682.5
NAD'83 GEO.	LAT-(N) 39.784396	LONG-(W) 80.709237
NAD'83 UTM (M)	N. 4,403,868.2	E. 524,897.3

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. FIVE (5) DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. WAIVER TO BE OBTAINED.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

REFERENCES



TAX MAP/PCL	ADJOINING SURFACE OWNER	ACREAGE
13-11.1	SAMUEL & HEATHER SUHODOLSKI	0.49
13-14	MARGARET K. FOX - LIFE (C/O PAUL FOX)	3.00
14-1.1	MICHAEL L. ALVAREZ	1.6
14-3	MICHAEL L. ALVAREZ	NORTH P/O 3 PCLS
14-4	MICHAEL L. ALVAREZ	3 PCLS & 1/8 AC.
14-5	MICHAEL L. ALVAREZ	200' X 60' PCL
14-6	MICHAEL L. ALVAREZ	120' X 200' PCL
14-7	JOHN T. ERAZMUS, III	0.25
14-8	JOHNNY C. & JOHNNY C. II HOLCOMB	0.80
14-9	JOHN E. DUFFY, ET UX	0.80
14-10	ROBERT I. DUFFY - LIFE (C/O CAROLYN L. DUFFY)	0.25
14-11.1	PATRICK J. SCHELLHASE - TRUST	7.617
14-11.2	LOYE A. BLAKE	4.00
14-26	PATRICK J. SCHELLHASE - TRUST	12.588
14-27	PATRICK J. SCHELLHASE - TRUST	3.004
14-28	CHARLES R. SCHELLHASE, ET UX	3.029
14-29	ANDREW FASOULETOS, ET UX (C/O TENA MARIE STRICKLIN)	0.209
14-29.1	ANDREW FASOULETOS, ET UX (C/O TENA MARIE STRICKLIN)	1.171
14-32	TWILA C. COFFIELD	0.583
14-32.1	TWILA C. COFFIELD	0.184
14-35	PAUL G. FOX	0.338
14-36	MARGARET K. FOX - LIFE (C/O PAUL FOX)	1600 SQ. FT.
14-37	MARGARET K. FOX - LIFE (C/O PAUL FOX)	LOT
14-38	MARGARET K. FOX - LIFE (C/O PAUL FOX)	0.631
14-39	MARGARET K. FOX - LIFE (C/O PAUL FOX)	8675 SQ. ST.
14-40	MARGARET K. FOX - LIFE (C/O PAUL FOX)	19,560 SQ. FT.
14-41	MARGARET K. FOX - LIFE (C/O PAUL FOX)	9165 SQ. FT.
14-44	DAVID LEE FRANKLIN	2.913
14-44.1	GEORGE R. TAYLOR, ET UX	4.423
14-47	MICHAEL L. & CHERYL J. ACREE	0.355
14-48	MICHAEL L. & CHERYL J. ACREE	0.473
14-49	MICHAEL L. & CHERYL J. ACREE	0.118
14-50	RONALD MARSH	0.707
14-51	GEORGE R. TAYLOR, ET UX	1.621
14-52	JAMES E. PEELMAN	0.439
14-53	JAMES E. PEELMAN	0.555
14-54	RICHARD L. HARVETH, ET UX (C/O RICHARD LEE HARVETH)	1.649
16-14	LYNN CAMP METHODIST CHURCH	0.762
16-15.1	ERIC J. YOUNG	1.98

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°42'30"

7,913' T.H.

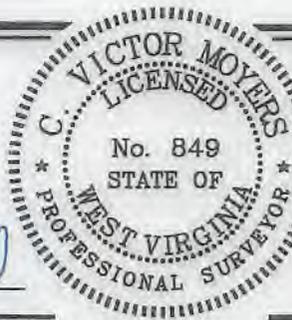
2,648' B.H.



12 Vanborn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 204.246.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5255
slsvv.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 12, 2018

REVISED 10-23-2020, 10-29-2020

OPERATORS WELL NO. KNOB CREEK N-5HM
API WELL NO. 47 - 051 - 02032
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P5HMR3.dwg
KNOB CREEK N-5HM-REV5

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

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 737.50' WATERSHED FISH CREEK (HUC 10)

DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±

ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-6A1 ACREAGE 65.824±

PROPOSED WORK: LEASE NO. SEE WW-6A1

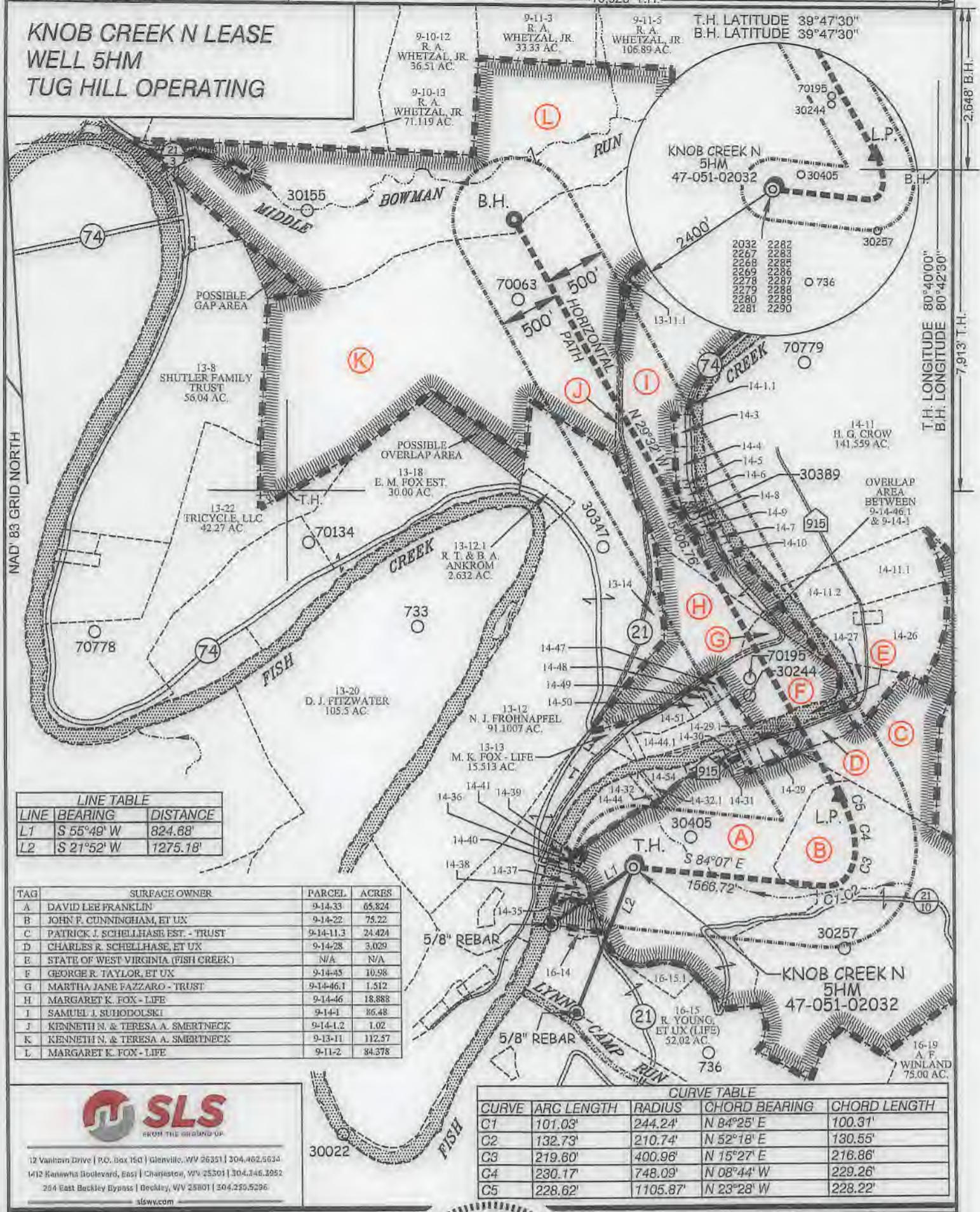
DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,368' / TMD: 12,588'

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

**Knob Creek N Lease
Well 5HM
Tug Hill Operating**



LINE TABLE

LINE	BEARING	DISTANCE
L1	S 55°49' W	824.68'
L2	S 21°52' W	1275.18'

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	JOHN F. CUNNINGHAM, ET UX	9-14-22	75.22
C	PATRICK J. SCHELLHASE EST. - TRUST	9-14-11.3	24.424
D	CHARLES R. SCHELLHASE, ET UX	9-14-28	3.029
E	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
F	GEORGE R. TAYLOR, ET UX	9-14-45	10.98
G	MARTHA JANE FAZZARO - TRUST	9-14-46.1	1.512
H	MARGARET K. FOX - LIFE	9-14-46	18.888
I	SAMUEL I. SUHODOLSKI	9-14-1	86.48
J	KENNETH N. & TERESA A. SMERTNECK	9-14-1.2	1.02
K	KENNETH N. & TERESA A. SMERTNECK	9-13-11	112.57
L	MARGARET K. FOX - LIFE	9-11-2	84.378

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	101.03'	244.24'	N 84°25' E	100.31'
C2	132.73'	210.74'	N 52°18' E	130.55'
C3	219.80'	400.96'	N 15°27' E	216.86'
C4	230.17'	748.09'	N 08°44' W	229.26'
C5	228.62'	1105.87'	N 23°28' W	228.22'

12 Vanhook Drive | P.O. Box 160 | Glenview, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.2952
 264 East Beckley Bypass | Beckley, WV 25801 | 304.229.5296
 slsww.com

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

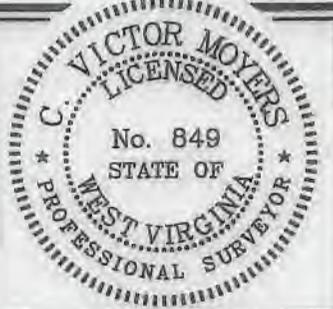
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LANDING POINT

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NAD83 GEO.	LAT-(N) 39.771581	LONG-(W) 80.699528
NAD83 UTM (M)	N. 4,402,448.7	E. 525,793.4

BOTTOM HOLE

NAD83 S.P.C.(FT)	N. 470,104.0	E. 1,628,682.5
NAD83 GEO.	LAT-(N) 39.784396	LONG-(W) 80.709237
NAD83 UTM (M)	N. 4,403,668.2	E. 524,897.3



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

P.S. 849 *C. Victor Moyers*

SCALE 1" = 1000' FILE NO. 8789P5HMR3.dwg
 KNOB CREEK N-5HM-REV/5
 DATE APRIL 12, 2018
 REVISED 10-23-2020, 10-29-2020
 OPERATORS WELL NO. KNOB CREEK N-5HM
 API WELL NO. 47-051-02032
 NO. STATE COUNTY PERMIT

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

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-5A1)

03/19/2021

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

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
-------------------------	-----------------------	-----------------------	---------	-----------

*See attached pages

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Tug Hill Operating, LLC
 By: Amy L. Morris *Amy L. Morris*
 Its: Permitting Specialist - Appalachia Region

STATE OF WEST VIRGINIA §
 §
COUNTY OF MARSHALL §

Jan Pest
MARSHALL County 02:05:39 PM
Instrument No 1415451
Date Recorded 10/04/2016
Document Type ASN
Pages Recorded 7
Book-Page 36-535
Recording Fee \$7.00
Additional \$6.00

ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "*Assignment*") is from **GULFPORT ENERGY CORPORATION**, a Delaware corporation ("*Gulfport*"), and **FOSSIL CREEK OHIO, LLC**, a Delaware limited liability company ("*Fossil Creek*") and, together with Gulfport, "*Assignors*", to **TH Exploration, LLC**, a Texas limited liability company ("*Assignee*"), and is executed on September 23, 2016 (the "*Effective Date*"). Assignors and Assignee may be referred to herein collectively as the "*Parties*," or individually as a "*Party*." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignors and the Assignee dated June 24, 2016 (the "*Acreage Trade Agreement*").

**ARTICLE 1
ASSIGNMENT OF ASSETS**

Section 1.1 Assignment. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Assignor hereby **GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS** unto Assignee its right, title and interest in and to the oil and gas leases described in more detail on Exhibit A attached hereto (the "*Leases*") and any surface use agreements that relate to such Leases insofar as such surface use agreements relate to the portion of lands covered by such Leases (collectively with the Leases, the "*Conveyed Assets*").

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignee, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.4 Assignment Subject to Acreage Trade Agreement. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignors, and the execution and acceptance of this Assignment by Assignee, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

**ARTICLE 2
SPECIAL WARRANTY OF TITLE AND DISCLAIMERS**

Section 2.1 Special Warranty of Title. Each Assignor hereby agrees to warrant and defend Defensible Title to the Leases unto Assignee, its successors and assigns, against every Person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Assignors or any of their respective Affiliates, but not otherwise.

Section 2.2 Disclaimers of Warranties and Representations.

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI AND VII OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNORS MAKE NO, AND HEREBY EXPRESSLY DISCLAIM, ANY

RECEIVED
Office of Oil and Gas
FEB 25 2021
WV Department of
Environmental Protection

PARTIAL ASSIGNMENT OF OIL AND GAS LEASES

This **PARTIAL ASSIGNMENT OF OIL AND GAS LEASES** (hereinafter, "**Assignment**"), made the 31 day of May, 2018 (hereinafter, "**Effective Date**"), is by and between **CNX GAS COMPANY LLC**, a Virginia limited liability company, whose address is 1000 CONSOL Energy Drive, Suite 400, Canonsburg, Pennsylvania 15317 (hereinafter "**Assignor**") and **TH EXPLORATION, LLC**, a Texas limited liability company, whose address is 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (hereinafter "**Assignee**"). All references in this Assignment to "**Party**" or "**Parties**" shall be deemed at all times to mean Assignor or Assignee or both. Capitalized terms used but not defined herein shall have the meaning given such terms in the Acreage Trade Agreement, by and between Assignor and Assignee dated April 9, 2018 (the "**ATA**").

WHEREAS, Assignor desires to assign all of Assignor's right, title and interest in and to those Oil and Gas Lease(s) as same may have been previously or will in the future be modified, extended, or amended (hereinafter, "**Lease**" or "**Leases**"), covering certain tracts of land (hereinafter, "**Lands**") located in Marshall County, West Virginia; such Leases and Lands covered thereby being more particularly described on Exhibit "A" attached hereto and made a part hereof insofar and only insofar as such Leases cover the Target Formations (as defined below).

NOW, THEREFORE, for and in consideration of TEN AND NO/100 DOLLARS (\$10.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby **GRANT, BARGAIN, ASSIGN, TRANSFER, AND CONVEY** unto Assignee the following "**Assigned Rights**":

- (a) All of Assignor's right, title, and interest in and to those Leases set forth on Exhibit A attached hereto **INSOFAR AND ONLY INSOFAR** as to the particular Target Formation(s) (defined below) described and delineated on Exhibit A for each Lease:
- i. "**Target Formation(s)**" means, with respect to each Lease, two hundred feet (200') above the top and two hundred feet (200') below the base of the Marcellus Formation or the Utica Formation or both, as specified for each Lease on Exhibit A. For the purposes of this Assignment, the Marcellus Formation shall be defined as the formation commonly known as the Marcellus Shale Formation, with the top of the Marcellus Shale Formation defined as the correlative stratigraphic equivalent to that point found at 6517 feet (6517') measured depth on the Halliburton Simms U-5H Composite DLL_DEN_NEU Log dated June 14, 2014 (the "**Log**")

WW-6A
(9-13)

API NO. 47- 051 - 02032 Mod
OPERATOR WELL NO. Knob Creek N-5HM
Well Pad Name: Knob Creek

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 2/12/2021 **Date Permit Application Filed:** 2/18/2021

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: David Lee Franklin
Address: 131 Saint Joseph Road
Glen Easton, WV 26039

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: David Lee Franklin
Address: 131 Saint Joseph Road
Glen Easton, WV 26039

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: CNX Land Resources, Inc.
Address: 1000 Consol Energy Drive
Canonsburg, PA 15318

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: *See attached list
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas

FEB 25 2021

WV Department of
Environmental Protection

03/19/2021

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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Office of Oil and Gas
FEB 25 2021
WV Department of Environmental Protection

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A
(8-13)

API NO. 47- 051 - 02022 mod
OPERATOR WELL NO. Knob Creek N-5HM
Well Pad Name: Knob Creek

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

03/19/2021

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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(8-13)

API NO. 47- 051 - 02032 Mod
OPERATOR WELL NO. Knob Creek N-5HM
Well Pad Name: Knob Creek

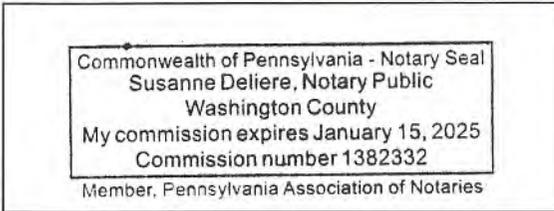
Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC
Telephone: 724-749-8388
Email: amorris@tug-hillop.com amy morris

Address: 380 Southpointe Boulevard, Plaza II, Suite 200
Canonsburg, PA 15317
Facsimile: 724-338-2030

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.



Subscribed and sworn before me this 18th day of February 2021
Susanne Deliere Notary Public
My Commission Expires 1/15/2025

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Exhibit WW-6A**Supplement Pg. 1A**

Tug Hill Operating, LLC
 380 Southpointe Blvd, Suite 200
 Cannonsburg, PA 15137

Residences within Two-Thousand Feet (2,000')

Well: KNOB CREEK N – 5HM
 District: Meade (House #'s 1-12, 14-26) (Church #13)
 State: WV

There are twenty-six (25) residences, no businesses, one (1) church, no schools or no emergency facilities within two-thousand feet (2,000') of the above referenced well location.

<p>House 1 TM 14 Pcl. 39 Margaret Fox – Life c/o Paul Fox Phone: 304-455-3817 (Per Tax Address – Paul G. Fox) Physical Address: 31 Crow Dr. Glen Easton, WV 26039 Tax Address: 5761 Saint Joseph Rd. Proctor, WV 26055</p>	<p>House 2 TM 14 Pcl. 32 Twila C. Coffield Phone: 304-845-5941 Physical Address: 184 Crow Dr. Glen Easton, WV 26039 Tax Address: 16 Sandy Ave. Moundsville, WV 26041-1020</p>	<p>House 3 TM 14 Pcl. 54 Richard L. Harveth, Et Ux c/o Richard Lee Harveth Phone: 304-845-7397; 304-845-5128 Physical Address: 220 Crow Dr. Glen Easton, WV 26039 Tax Address: Same</p>
<p>House 4 TM 14 Pcl. 42 John C. Lagos, Et Ux Phone: 304-845-2793 Physical Address: 12529 Fish Creek Rd. Glen Easton, WV 26039 Tax Address: 404 Jefferson Ave. Glen Dale, WV 26038</p>	<p>House 5 TM 14 Pcl. 53 James E. Peelman Phone: None Found Physical Address: 12551 Fish Creek Rd. Glen Easton, WV 26039 Tax Address: 12551 Fish Creek Rd. Glen Easton, WV 26039</p>	<p>House 6 TM 14 Pcl. 29.1 Andrew Fasouletos, Et Ux Phone: 304-845-9009 Physical Address: 329 Crow Dr. Glen Easton, WV 26039 Tax Address: 1. Rd. 2 Box 150 Proctor, WV 26055 2. 3391 Taylors Ridge Rd. Proctor, WV 26055-9723</p>
<p>House 7 TM 14 Pcl. 29.1 Andrew Fasouletos, Et Ux Phone: 304-845-9009 Physical Address: 361 Crow Dr. Glen Easton, WV 26039 Tax Address: 1. Rd. 2 Box 150 Proctor, WV 26055 2. 3391 Taylors Ridge Rd. Proctor, WV 26055-9723</p>	<p>House 8 TM 14 Pcl. 29 Andrew Fasouletos, Et Ux c/o Tena Marie Stricklin Phone: 304-845-9009 Physical Address: 389 Crow Dr. Glen Easton, WV 26039 Tax Address: 1. 3391 Taylors Ridge Rd. Proctor, WV 26055-9723 2. Rd. 2 Box 150 Proctor, WV 26055</p>	<p>House 9 TM 14 Pcl. 48 Michael L. & Cheryl J. Acree Phone: 304-455-2148; 304-455-5859 Physical Address: 12725 Fish Creek Rd. Glen Easton, WV 26039 Tax Address: 189 Plum St. Proctor, WV 26055</p>

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<p>House 10 TM 14 Pcl. 45 George R. Taylor, Et Ux Phone: 304-845-2987 Physical Address: 12781 Fish Creek Rd. Glen Easton, WV 26039 Tax Address: Same</p>	<p>House 11 TM 16 Pcl. 15.1 Eric J. Young Phone: 304-686-3398; 304-905-1986 (Per Address – Chelsey Long); 304-845-0154 (Per Address – Bill J. Blatt) Physical Address: 153 Young Ln. Glen Easton, WV 26039 Tax Address: Same</p>	<p>House 12 TM 16 Pcl. 15 Ronald R. Young, Et Ux - Life Phone: 304-845-6044 (Per Tax Address – Geraldine M. Young) Physical Address: 348 Saint Joseph Rd. Glen Easton, WV 26039 Tax Address: Same</p>
<p>House 13 TM 16 Pcl. 14 Lynn Camp Methodist Church Phone: Physical Address: 171 Saint Joseph Rd. Glen Easton, WV 26039 Tax Address: Unknown Address Moundsville, WV 26041</p>	<p>House 14 TM 16 Pcl. 15 Ronald R. Young, Et Ux - Life Phone: 304-845-6044 (Per Tax Address – Geraldine M. Young) Physical Address: 323 Saint Joseph Rd. Glen Easton, WV 26039 Tax Address: 348 Saint Joseph Rd. Glen Easton, WV 26039</p>	<p>House 15 TM 16 Pcl. 13.5 Paul R. Blake & Paul R. Blake II Phone: 304-845-9369 Physical Address: 616 Saint Joseph Rd. Glen Easton, WV 26039 Tax Address: 121 Vandivere Ln. Glen Easton, WV 26039-9707</p>
<p>House 16 TM 16 Pcl. 13.1 Paul W. Blake - Life Phone: 304-845-2999 Physical Address: 581 Saint Joseph Rd. Glen Easton, WV 26039 Tax Address: 1500 8th St. Moundsville, WV 26041-2031</p>	<p>House 17 TM 16 Pcl. 13.6 Wesley D. Yeater, Et Ux Phone: 304-843-5212 Physical Address: 37 Vandivere Ln. Glen Easton, WV 26039 Tax Address: Same</p>	<p>House 18 TM 16 Pcl. 13.3 Paul R. Blake Phone: 304-845-9369 Physical Address: 121 Vandivere Ln. Glen Easton, WV 26039 Tax Address: Same</p>
<p>House 19 TM 16 Pcl. 12.2 Spencer J. & Carrie A. Richmond Phone: 304-845-2274; 304-845-8186 Physical Address: 293 Richmond Ln. Glen Easton, WV 26039 Tax Address: 243 Richmond Ln. Glen Easton, WV 26039</p>	<p>House 20 TM 16 Pcl. 12.7 Spencer J. & Carrie A. Richmond Phone: 304-845-2274; 304-845-8186 Physical Address: 243 Richmond Ln. Glen Easton, WV 26039 Tax Address: Same</p>	<p>House 21 TM 16 Pcl. 12.1 James G. Richmond, Et Ux Phone: 304-845-8186 Physical Address: 157 Richmond Ln. Glen Easton, WV 26039 Tax Address: Same</p>
<p>House 22 TM 14 Pcl. 33 David Lee Franklin Phone: 304-845-6025; 304-845-3203 Physical Address: 131 Saint Joseph Rd. Glen Easton, WV 26039 Tax Address: 131 Saint Joseph Rd. Glen Easton, WV 26039</p>	<p>House 23 TM 14 Pcl. 37 Margaret Fox – Life c/o Paul Fox Phone: 304-455-3817 (Per Tax Address – Paul G. Fox) Physical Address: 107 Saint Joseph Rd. Glen Easton, WV 26039 Tax Address: 5761 Saint Joseph Rd. Proctor, WV 26055</p>	<p>House 24 TM 14 Pcl. 37 Margaret Fox – Life c/o Paul Fox Phone: 304-455-3817 (Per Tax Address – Paul G. Fox) Physical Address: 51 Saint Joseph Rd. Glen Easton, WV 26039 Tax Address: 5761 Saint Joseph Rd. Proctor, WV 26055</p>

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<p>House 25 TM 13 Pcl. 13 Margaret K. Fox – Life c/o Paul Fox Phone: 304-455-3817 (Per Tax Address – Paul G. Fox) Physical Address: 28 Richmond Ln. Glen Easton, WV 26039 Tax Address: 5761 Saint Joseph Rd. Proctor, WV 26055</p>	<p>House 26 TM 13 Pcl. 12 Nila Jean Prohnapfel Phone: None Found Physical Address: 11975 Fish Creek Rd. Glen Easton, WV 26039 Tax Address: Rd. 1 Box 190 Proctor, WV 26055-9703</p>	
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7019 1640 0002 2948 7114
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Canonsburg, PA 15317

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157 Richmond Lane
Glen Easton, WV 26039

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37 Vandivere Lane
Glen Easton, WV 26039

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1500 8th Street
Moundsville, WV 26041-2031

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Street

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Street

City

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7019 1640 0002 2948 7206

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Certified Mail Fee
\$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
\$ _____

Total
\$ _____

Sent
\$ _____

Street

City

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7019 1640 0002 2948 7190

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
\$ _____

Total
\$ _____

Sent
\$ _____

Street

City

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7019 1640 0002 2948 7237

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\$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
\$ _____

Total
\$ _____

Sent
\$ _____

Street

City

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7019 1640 0002 2948 7220

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<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
\$ _____

Total
\$ _____

Sent
\$ _____

Street

City

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- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

Total

\$

Sent

Street

City

James E. Peelman
12551 Fish Creek Road
Glen Easton, WV 26039

Postmark
Here

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- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

Tr

\$

City

State

Zip

City

Twila C. Coffield
16 Sandy Avenue
Moundsville, WV 26041-1020

Postmark
Here

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- Return Receipt (hardcopy) \$ _____
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

Total

\$

Sent

Street

City

Margaret K. Fox – Life
c/o Paul Fox
5761 Saint Joseph Road
Proctor, WV 26055

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03/19/2021