



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

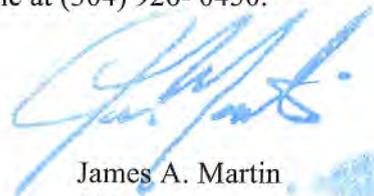
Re: Permit Modification Approval for KNOB CREEK N-4HM
47-051-02267-00-00

Casing update

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.



James A. Martin
Chief

Operator's Well Number: KNOB CREEK N-4HM
Farm Name: DAVID LEE FRANKLIN
U.S. WELL NUMBER: 47-051-02267-00-00
Horizontal 6A New Drill
Date Modification Issued: 3/15/2021

Promoting a healthy environment.

03/19/2021



February 16, 2021

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

VIA USPS

**RE: Knob Creek N-4HM API # 47-051-02267 (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-4HM to change ground elevation, TVD and freshwater/coal string 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 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).

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

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Enclosures

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-4HM 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

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):

Marcellus is the target formation at a depth of 6209' - 6260', thickness of 51' and an anticipated approximate pressure of 3800 psi.

8) Proposed Total Vertical Depth: 6,360'

9) Formation at Total Vertical Depth: Onondaga

10) Proposed Total Measured Depth: 19,823'

11) Proposed Horizontal Leg Length: 13,029.47'

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 - 02267
 OPERATOR WELL NO. Knob Creek N-4HM
 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#	2,300'	2,300'	744ft ³ (CTS)
Production	5 1/2"	NEW	P110	20#	19,823'	19,823'	5052ft ³ (CTS)
Tubing	2 3/8"	NEW	N80	4.7#	6,425'		
Liners							

Ma
10/29/2020

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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03/19/2021
Page 2 of 3

WW-6B
(10/14)

API NO. 47- 051 - 02267
OPERATOR WELL NO. Knob Creek N-4HM
Well Pad Name: Knob Creek

Handwritten signature and date: 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 32,500,000 lb. proppant and 585,000 barrels of water.
Max rate = 80bpm; max psi = 9,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 12.93 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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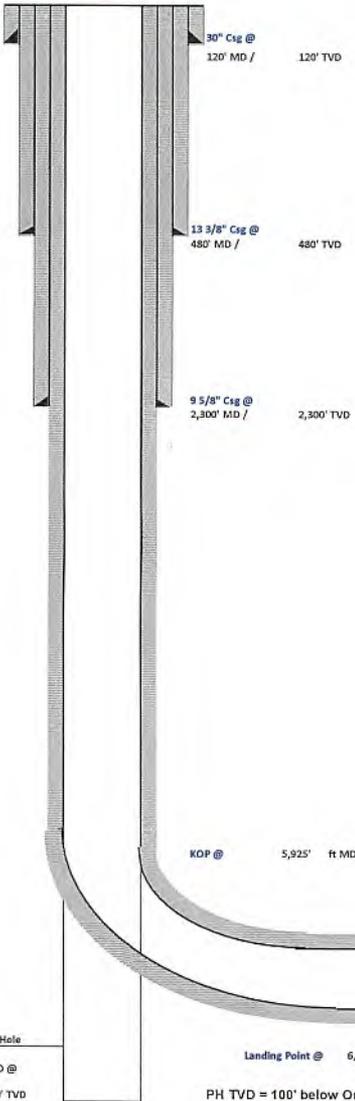
25) Proposed borehole conditioning procedures:

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-4HM
STATE: WV **COUNTY:** Marshall
DISTRICT: Meade
DF Elev: 737' **GL Elev:** 737'
TD: 19,823'
TH Latitude: 39.76996957
TH Longitude: -80.70549917
BH Latitude: 39.80483601
BH Longitude: -80.72749264



FORMATION TOPS	
Formation	Depth TVD
Deepest Fresh Water	380
Sewickley Coal	292
Pittsburgh Coal	374
Big Lime	1704
Weir	2005
Berea	2189
Gordon	2452
Rhinestreet	5567
Genesee/Burkett	6077
Tully	6107
Hamilton	6142
Marcellus	6209
Landing Depth	6244
Onondaga	6260
Pilot Hole Depth	6360

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'	8W	BW	Surface
Surface	17.5	13 3/8	480'	480'	54.5	J55	Surface
Intermediate 1	12 1/4	9 5/8	2,300'	2,300'	36	J55	Surface
Production	8 7/8 x 8 3/4	5 1/2	19,823'	6,017'	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	783	A	15	Air	1 Centralizer every other jt
Production	4,649	A	14.5	Air / SOBMM	1 every other joint in lateral; 1 per joint in curve; 1 every other jt to sfc

JW 10/29/2020

Pilot Hole
PH TD @
6,360' TVD

Landing Point @ 6,796' MD / 6,244' TVD
PH TVD = 100' below Onondaga Top

Lateral TD @ 19,823' ft MD
6,017' ft TVD

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Tug Hill Operating, LLC Casing and Cement Program

Knob Creek N-4HM

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"	2,300'	CTS
Production	5 1/2"	CYHP110	8 7/8 x 8 3/4	19,823'	CTS

Cement

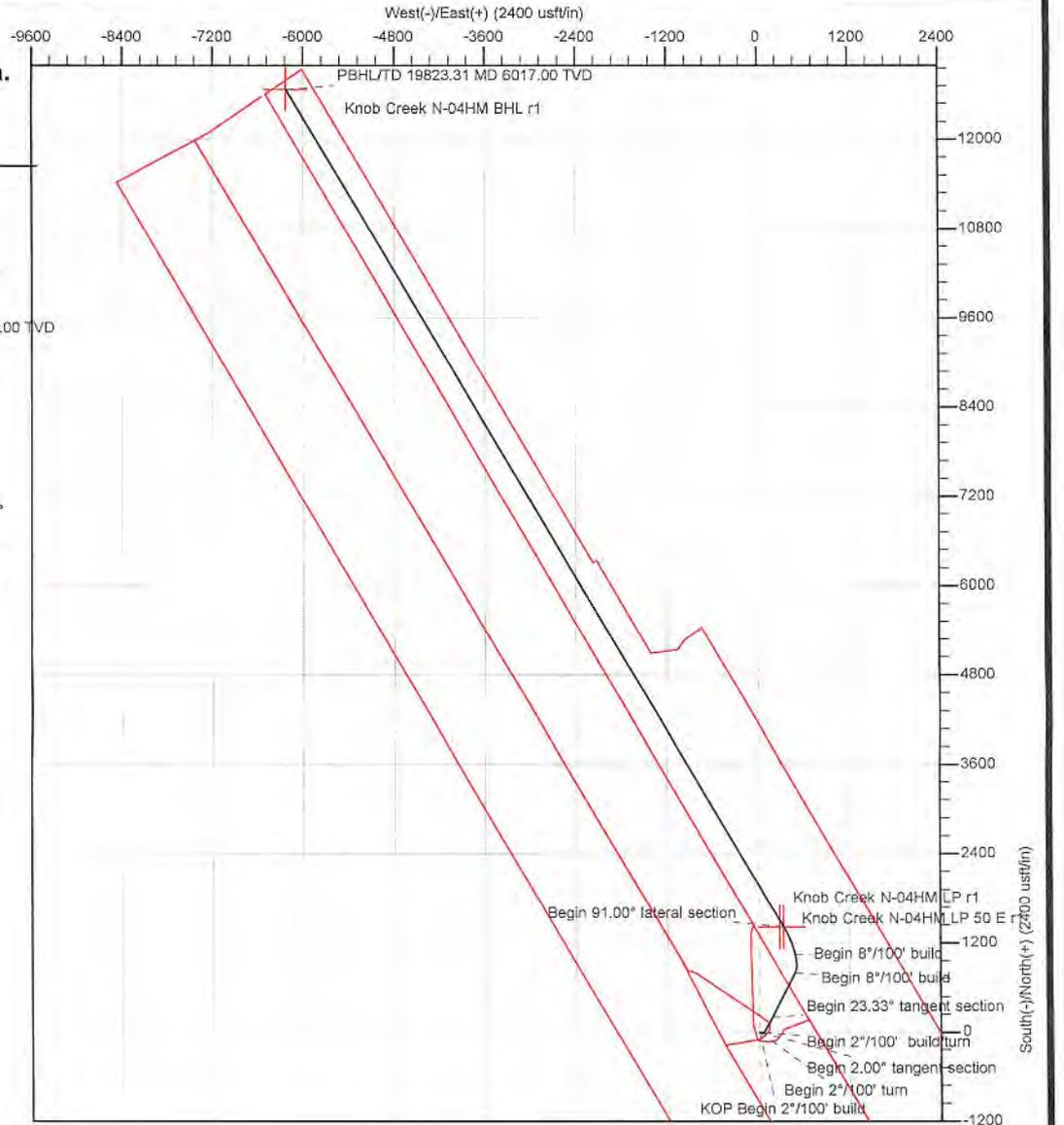
- Conductor: Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Conductor Cement mixed at 15.6 ppg, Y=1.2
- Surface: Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Surface Cement mixed at 15.6 ppg, Y=1.2
- Intermediate: Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed 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-04HM (slot J)
 Site: Knob Creek
 Project: Marshall County, West Virginia.
 Design: rev2



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 2"/100' build
3	1600.00	2.00	120.00	1599.98	-0.87	1.51	2.00	120.000	-1.45	Begin 2"/100' turn
4	1651.75	2.00	90.00	1651.70	-1.32	3.20	2.00	104.991	-2.60	Begin 2.00" tangent section
5	3100.93	2.00	90.00	3100.00	-1.32	53.77	0.00	0.000	-24.87	Begin 2"/100' build/turn
6	4225.33	23.33	27.05	4192.14	199.56	176.21	2.00	-67.248	101.56	Begin 23.33" tangent section
7	5924.59	23.33	27.05	5752.47	798.94	482.21	0.00	0.000	504.90	Begin 8"/100' build
8	6354.76	50.00	347.74	6098.69	1043.20	486.07	8.00	-59.161	722.50	Begin 8"/100' build
9	6796.26	91.00	329.81	6244.00	1417.95	331.44	10.00	-26.227	1127.04	Begin 91.00" lateral section
0	19823.31	91.00	329.81	6017.00	12676.28	-6218.57	0.00	0.000	4119.44	PBHL/TD 19823.31 MD 6017.00 TVD

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

Magnetic Field
 Strength: 52139.6snT
 Dip Angle: 66.92°
 Date: 9/19/2017
 Model: IGRF2015

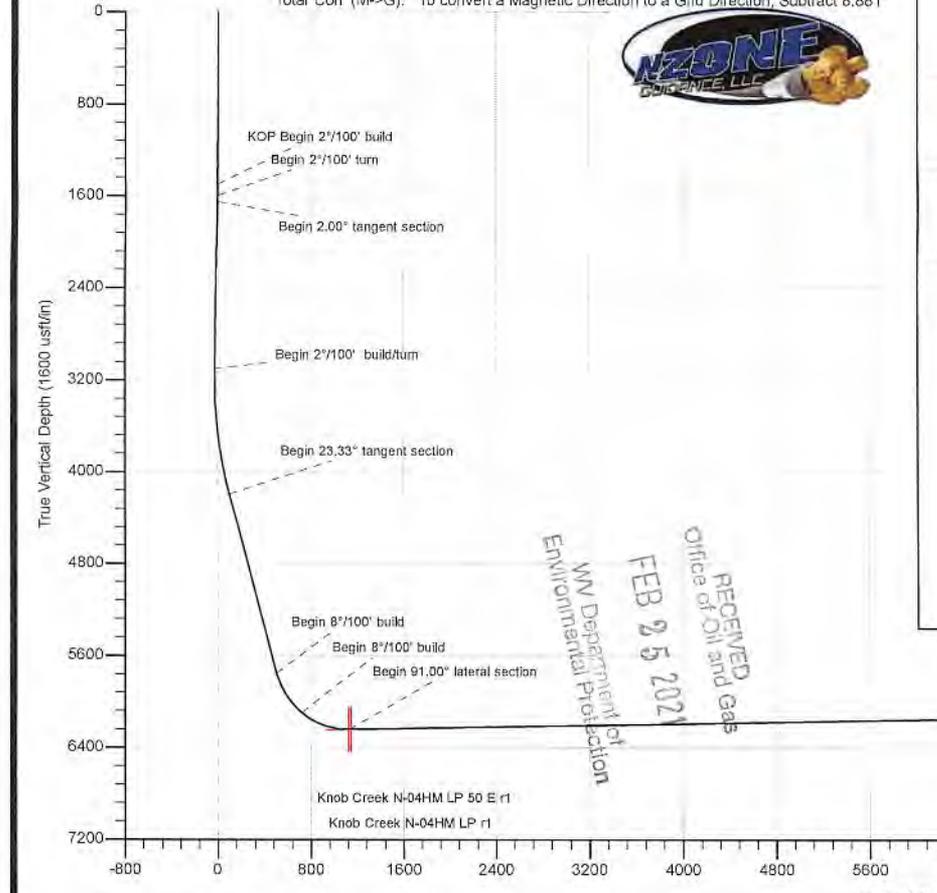
System Datum: Mean Sea Level
 Depth Reference: GL=737 @ 737.00usft
 Surface location
 Northing Easting Latitude Longitude
 14443107.81 1723168.05 39.76996957 -80.70549917

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

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



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Planning Report - Geographic

Database:	DB_Jul2216dt_v14 It	Local Co-ordinate Reference:	Well Knob Creek N-04HM (slot J)
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-04HM (slot J)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

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-04HM (slot J)					
Well Position	+N/-S	0.00 usft	Northing:	14,443,107.82 usft	Latitude:	39.76996957
	+E/-W	0.00 usft	Easting:	1,723,168.05 usft	Longitude:	-80.70549917
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	52,139.56559285

Design	rev2				
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	333.87	

Plan Survey Tool Program	Date	8/11/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,823.31 rev2 (Original Hole)	MWD		
			MWD - Standard		

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Planning Report - Geographic

Database:	DB_Jul2216dt_v14 It	Local Co-ordinate Reference:	Well Knob Creek N-04HM (slot J)
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-04HM (slot J)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,600.00	2.00	120.00	1,599.98	-0.87	1.51	2.00	2.00	0.00	120.000	
1,651.75	2.00	90.00	1,651.70	-1.32	3.20	2.00	0.00	-57.97	-104.991	
3,100.93	2.00	90.00	3,100.00	-1.32	53.77	0.00	0.00	0.00	0.000	
4,225.33	23.33	27.05	4,192.14	199.56	176.21	2.00	1.90	-5.60	-67.248	
5,924.59	23.33	27.05	5,752.47	798.94	482.21	0.00	0.00	0.00	0.000	
6,354.76	50.00	347.74	6,098.69	1,043.20	486.07	8.00	6.20	-9.14	-59.161	
6,796.26	91.00	329.81	6,244.00	1,417.95	331.44	10.00	9.29	-4.06	-26.227	
19,823.31	91.00	329.81	6,017.00	12,676.28	-6,218.57	0.00	0.00	0.00	0.000	Knob Creek N-04HM

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Planning Report - Geographic

Database: DB_Jul2216dt_v14 lt
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia.
 Site: Knob Creek
 Well: Knob Creek N-04HM (slot J)
 Wellbore: Original Hole
 Design: rev2

Local Co-ordinate Reference: Well Knob Creek N-04HM (slot J)
 TVD Reference: GL=737 @ 737.00usft
 MD Reference: GL=737 @ 737.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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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	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
100.00	0.00	0.00	100.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
200.00	0.00	0.00	200.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
300.00	0.00	0.00	300.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
400.00	0.00	0.00	400.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
500.00	0.00	0.00	500.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
600.00	0.00	0.00	600.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
700.00	0.00	0.00	700.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
800.00	0.00	0.00	800.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
900.00	0.00	0.00	900.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,443,107.82	1,723,168.05	39.76996957	-80.70549917
KOP Begin 2°/100' build									
1,600.00	2.00	120.00	1,599.98	-0.87	1.51	14,443,106.94	1,723,169.56	39.76996716	-80.70549380
Begin 2°/100' turn									
1,651.75	2.00	90.00	1,651.70	-1.32	3.20	14,443,106.49	1,723,171.25	39.76996591	-80.70548781
Begin 2.00° tangent section									
1,700.00	2.00	90.00	1,699.92	-1.32	4.88	14,443,106.49	1,723,172.93	39.76996589	-80.70548182
1,800.00	2.00	90.00	1,799.86	-1.32	8.37	14,443,106.49	1,723,176.42	39.76996586	-80.70546940
1,900.00	2.00	90.00	1,899.80	-1.32	11.86	14,443,106.49	1,723,179.91	39.76996583	-80.70545698
2,000.00	2.00	90.00	1,999.74	-1.32	15.35	14,443,106.49	1,723,183.40	39.76996580	-80.70544456
2,100.00	2.00	90.00	2,099.68	-1.32	18.84	14,443,106.49	1,723,186.89	39.76996577	-80.70543214
2,200.00	2.00	90.00	2,199.62	-1.32	22.33	14,443,106.49	1,723,190.38	39.76996573	-80.70541972
2,300.00	2.00	90.00	2,299.55	-1.32	25.82	14,443,106.49	1,723,193.87	39.76996570	-80.70540730
2,400.00	2.00	90.00	2,399.49	-1.32	29.31	14,443,106.49	1,723,197.36	39.76996567	-80.70539488
2,500.00	2.00	90.00	2,499.43	-1.32	32.80	14,443,106.49	1,723,200.85	39.76996564	-80.70538246
2,600.00	2.00	90.00	2,599.37	-1.32	36.29	14,443,106.49	1,723,204.34	39.76996561	-80.70537004
2,700.00	2.00	90.00	2,699.31	-1.32	39.78	14,443,106.49	1,723,207.83	39.76996558	-80.70535762
2,800.00	2.00	90.00	2,799.25	-1.32	43.27	14,443,106.49	1,723,211.32	39.76996554	-80.70534520
2,900.00	2.00	90.00	2,899.19	-1.32	46.76	14,443,106.49	1,723,214.81	39.76996551	-80.70533278
3,000.00	2.00	90.00	2,999.13	-1.32	50.25	14,443,106.49	1,723,218.30	39.76996548	-80.70532036
3,100.00	2.00	90.00	3,099.07	-1.32	53.74	14,443,106.49	1,723,221.79	39.76996545	-80.70530794
3,100.93	2.00	90.00	3,100.00	-1.32	53.77	14,443,106.49	1,723,221.82	39.76996545	-80.70530782
Begin 2°/100' build/turn									
3,200.00	3.32	56.54	3,198.96	0.26	57.89	14,443,108.07	1,723,225.94	39.76996975	-80.70529314
3,300.00	5.10	43.92	3,298.69	5.05	63.39	14,443,112.87	1,723,231.43	39.76998287	-80.70527353
3,400.00	7.00	37.97	3,398.13	13.06	70.22	14,443,120.88	1,723,238.27	39.77000480	-80.70524912
3,500.00	8.95	34.57	3,497.16	24.27	78.38	14,443,132.08	1,723,246.43	39.77003551	-80.70521995
3,600.00	10.91	32.38	3,595.66	38.66	87.86	14,443,146.48	1,723,255.91	39.77007496	-80.70518604
3,700.00	12.89	30.86	3,693.51	56.23	98.65	14,443,164.05	1,723,266.70	39.77012310	-80.70514744
3,800.00	14.87	29.73	3,790.58	76.94	110.73	14,443,184.76	1,723,278.78	39.77017988	-80.70510420
3,900.00	16.85	28.87	3,886.77	100.78	124.09	14,443,208.60	1,723,292.14	39.77024522	-80.70505637
4,000.00	18.84	28.18	3,981.95	127.71	138.72	14,443,235.53	1,723,306.77	39.77031905	-80.70500400
4,100.00	20.83	27.62	4,076.01	157.71	154.59	14,443,265.52	1,723,322.64	39.77040128	-80.70494717
4,200.00	22.83	27.15	4,168.84	190.73	171.69	14,443,298.54	1,723,339.73	39.77049180	-80.70488594
4,225.33	23.33	27.05	4,192.14	199.56	176.21	14,443,307.38	1,723,344.26	39.77051603	-80.70486974
Begin 23.33° tangent section									
4,300.00	23.33	27.05	4,260.71	225.90	189.65	14,443,333.72	1,723,357.70	39.77058824	-80.70482157
4,400.00	23.33	27.05	4,352.53	261.17	207.66	14,443,368.99	1,723,375.71	39.77068495	-80.70475707
4,500.00	23.33	27.05	4,444.35	296.45	225.67	14,443,404.26	1,723,393.72	39.77078165	-80.70469257



Planning Report - Geographic

Database: DB_Jul2216dt_v14 lt
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia,
 Site: Knob Creek
 Well: Knob Creek N-04HM (slot J)
 Wellbore: Original Hole
 Design: rev2

Local Co-ordinate Reference: Well Knob Creek N-04HM (slot J)
 TVD Reference: GL=737 @ 737.00usft
 MD Reference: GL=737 @ 737.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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FEB 25 2021

Planned Survey

WV Department of
 Environmental Protection

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,600.00	23.33	27.05	4,536.18	331.72	243.68	14,443,439.54	1,723,411.73	39.77087836	-80.70462807
4,700.00	23.33	27.05	4,628.00	366.99	261.69	14,443,474.81	1,723,429.73	39.77097506	-80.70456357
4,800.00	23.33	27.05	4,719.82	402.27	279.69	14,443,510.08	1,723,447.74	39.77107177	-80.70449907
4,900.00	23.33	27.05	4,811.65	437.54	297.70	14,443,545.36	1,723,465.75	39.77116847	-80.70443457
5,000.00	23.33	27.05	4,903.47	472.81	315.71	14,443,580.63	1,723,483.76	39.77126518	-80.70437006
5,100.00	23.33	27.05	4,995.30	508.08	333.72	14,443,615.90	1,723,501.77	39.77136188	-80.70430556
5,200.00	23.33	27.05	5,087.12	543.36	351.73	14,443,651.17	1,723,519.77	39.77145859	-80.70424106
5,300.00	23.33	27.05	5,178.94	578.63	369.73	14,443,686.45	1,723,537.78	39.77155529	-80.70417656
5,400.00	23.33	27.05	5,270.77	613.90	387.74	14,443,721.72	1,723,555.79	39.77165200	-80.70411205
5,500.00	23.33	27.05	5,362.59	649.17	405.75	14,443,756.99	1,723,573.80	39.77174870	-80.70404755
5,600.00	23.33	27.05	5,454.41	684.45	423.76	14,443,792.26	1,723,591.81	39.77184541	-80.70398305
5,700.00	23.33	27.05	5,546.24	719.72	441.76	14,443,827.54	1,723,609.81	39.77194211	-80.70391854
5,800.00	23.33	27.05	5,638.06	754.99	459.77	14,443,862.81	1,723,627.82	39.77203882	-80.70385404
5,900.00	23.33	27.05	5,729.88	790.26	477.78	14,443,898.08	1,723,645.83	39.77213552	-80.70378954
5,924.59	23.33	27.05	5,752.47	798.94	482.21	14,443,906.76	1,723,650.26	39.77215930	-80.70377367
Begin 8°/100' build									
6,000.00	26.90	15.54	5,820.77	828.70	493.58	14,443,936.52	1,723,661.63	39.77224093	-80.70373286
6,100.00	32.69	4.37	5,907.59	877.50	501.71	14,443,985.31	1,723,669.76	39.77237487	-80.70370334
6,200.00	39.19	356.40	5,988.55	936.05	501.79	14,444,043.87	1,723,669.84	39.77253568	-80.70370238
6,300.00	46.10	350.44	6,062.09	1,003.23	493.81	14,444,111.04	1,723,661.85	39.77272022	-80.70372999
6,354.76	50.00	347.74	6,098.69	1,043.20	488.07	14,444,151.02	1,723,654.12	39.77283007	-80.70375706
Begin 8°/100' build									
6,400.00	54.08	345.27	6,126.51	1,077.87	477.73	14,444,185.68	1,723,645.78	39.77292535	-80.70378633
6,500.00	63.26	340.61	6,178.47	1,159.36	452.55	14,444,267.18	1,723,620.60	39.77314938	-80.70387499
6,600.00	72.57	336.66	6,216.04	1,245.50	418.74	14,444,353.31	1,723,586.78	39.77338625	-80.70399432
6,700.00	81.94	333.09	6,238.08	1,333.66	377.32	14,444,441.48	1,723,545.37	39.77362875	-80.70414068
6,796.26	91.00	329.81	6,244.00	1,417.95	331.44	14,444,525.77	1,723,499.49	39.77386064	-80.70430297
Begin 91.00° lateral section									
6,800.00	91.00	329.81	6,243.93	1,421.18	329.56	14,444,529.00	1,723,497.61	39.77386954	-80.70430963
6,900.00	91.00	329.81	6,242.19	1,507.61	279.28	14,444,615.42	1,723,447.33	39.77410733	-80.70448756
7,000.00	91.00	329.81	6,240.45	1,594.03	229.00	14,444,701.85	1,723,397.05	39.77434513	-80.70466549
7,100.00	91.00	329.81	6,238.71	1,680.45	178.72	14,444,788.27	1,723,346.77	39.77458292	-80.70484343
7,200.00	91.00	329.81	6,236.96	1,766.87	128.44	14,444,874.69	1,723,296.49	39.77482072	-80.70502137
7,300.00	91.00	329.81	6,235.22	1,853.30	78.16	14,444,961.11	1,723,246.21	39.77505851	-80.70519930
7,400.00	91.00	329.81	6,233.48	1,939.72	27.88	14,445,047.54	1,723,195.93	39.77529631	-80.70537724
7,500.00	91.00	329.81	6,231.74	2,026.14	-22.40	14,445,133.96	1,723,145.65	39.77553410	-80.70555518
7,600.00	91.00	329.81	6,229.99	2,112.57	-72.68	14,445,220.38	1,723,095.37	39.77577189	-80.70573312
7,700.00	91.00	329.81	6,228.25	2,198.99	-122.96	14,445,306.81	1,723,045.09	39.77600969	-80.70591107
7,800.00	91.00	329.81	6,226.51	2,285.41	-173.24	14,445,393.23	1,722,994.81	39.77624748	-80.70608901
7,900.00	91.00	329.81	6,224.77	2,371.83	-223.52	14,445,479.65	1,722,944.53	39.77648527	-80.70626695
8,000.00	91.00	329.81	6,223.02	2,458.26	-273.80	14,445,566.07	1,722,894.25	39.77672306	-80.70644490
8,100.00	91.00	329.81	6,221.28	2,544.68	-324.08	14,445,652.50	1,722,843.97	39.77696085	-80.70662285
8,200.00	91.00	329.81	6,219.54	2,631.10	-374.36	14,445,738.92	1,722,793.69	39.77719865	-80.70680080
8,300.00	91.00	329.81	6,217.80	2,717.52	-424.64	14,445,825.34	1,722,743.41	39.77743644	-80.70697875
8,400.00	91.00	329.81	6,216.05	2,803.95	-474.92	14,445,911.76	1,722,693.13	39.77767423	-80.70715670
8,500.00	91.00	329.81	6,214.31	2,890.37	-525.20	14,445,998.19	1,722,642.85	39.77791202	-80.70733465
8,600.00	91.00	329.81	6,212.57	2,976.79	-575.48	14,446,084.61	1,722,592.57	39.77814981	-80.70751260
8,700.00	91.00	329.81	6,210.83	3,063.21	-625.76	14,446,171.03	1,722,542.29	39.77838760	-80.70769056
8,800.00	91.00	329.81	6,209.08	3,149.64	-676.04	14,446,257.45	1,722,492.01	39.77862539	-80.70786851
8,900.00	91.00	329.81	6,207.34	3,236.06	-726.32	14,446,343.88	1,722,441.73	39.77886318	-80.70804647
9,000.00	91.00	329.81	6,205.60	3,322.48	-776.60	14,446,430.30	1,722,391.45	39.77910097	-80.70822443
9,100.00	91.00	329.81	6,203.86	3,408.91	-826.88	14,446,516.72	1,722,341.17	39.77933876	-80.70840239
9,200.00	91.00	329.81	6,202.11	3,495.33	-877.16	14,446,603.15	1,722,290.89	39.77957655	-80.70858035
9,300.00	91.00	329.81	6,200.37	3,581.75	-927.44	14,446,689.57	1,722,240.61	39.77981434	-80.70875831



Planning Report - Geographic

Database: DB_Jul2216dt_v14 lt
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia.
 Site: Knob Creek
 Well: Knob Creek N-04HM (slot J)
 Wellbore: Original Hole
 Design: rev2

Local Co-ordinate Reference: Well Knob Creek N-04HM (slot J)
 TVD Reference: GL=737 @ 737.00usft
 MD Reference: GL=737 @ 737.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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Planned Survey

WV Department of
Environmental Protection

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,400.00	91.00	329.81	6,198.63	3,668.17	-977.72	14,446,775.99	1,722,190.33	39.78005212	-80.70893628
9,500.00	91.00	329.81	6,196.89	3,754.60	-1,028.00	14,446,862.41	1,722,140.05	39.78028991	-80.70911424
9,600.00	91.00	329.81	6,195.14	3,841.02	-1,078.28	14,446,948.84	1,722,089.77	39.78052770	-80.70929221
9,700.00	91.00	329.81	6,193.40	3,927.44	-1,128.56	14,447,035.26	1,722,039.49	39.78076549	-80.70947017
9,800.00	91.00	329.81	6,191.66	4,013.86	-1,178.84	14,447,121.68	1,721,989.21	39.78100328	-80.70964814
9,900.00	91.00	329.81	6,189.92	4,100.29	-1,229.12	14,447,208.10	1,721,938.93	39.78124106	-80.70982611
10,000.00	91.00	329.81	6,188.17	4,186.71	-1,279.40	14,447,294.53	1,721,888.65	39.78147885	-80.71000408
10,100.00	91.00	329.81	6,186.43	4,273.13	-1,329.68	14,447,380.95	1,721,838.37	39.78171664	-80.71018205
10,200.00	91.00	329.81	6,184.69	4,359.56	-1,379.96	14,447,467.37	1,721,788.09	39.78195442	-80.71036003
10,300.00	91.00	329.81	6,182.95	4,445.98	-1,430.24	14,447,553.80	1,721,737.81	39.78219221	-80.71053800
10,400.00	91.00	329.81	6,181.20	4,532.40	-1,480.52	14,447,640.22	1,721,687.53	39.78242999	-80.71071597
10,500.00	91.00	329.81	6,179.46	4,618.82	-1,530.80	14,447,726.64	1,721,637.25	39.78266778	-80.71089395
10,600.00	91.00	329.81	6,177.72	4,705.25	-1,581.08	14,447,813.06	1,721,586.97	39.78290556	-80.71107193
10,700.00	91.00	329.81	6,175.98	4,791.67	-1,631.36	14,447,899.49	1,721,536.69	39.78314335	-80.71124991
10,800.00	91.00	329.81	6,174.23	4,878.09	-1,681.64	14,447,985.91	1,721,486.41	39.78338113	-80.71142789
10,900.00	91.00	329.81	6,172.49	4,964.51	-1,731.92	14,448,072.33	1,721,436.13	39.78361892	-80.71160587
11,000.00	91.00	329.81	6,170.75	5,050.94	-1,782.20	14,448,158.75	1,721,385.85	39.78385670	-80.71178385
11,100.00	91.00	329.81	6,169.01	5,137.36	-1,832.48	14,448,245.18	1,721,335.57	39.78409448	-80.71196184
11,200.00	91.00	329.81	6,167.26	5,223.78	-1,882.76	14,448,331.60	1,721,285.29	39.78433227	-80.71213982
11,300.00	91.00	329.81	6,165.52	5,310.20	-1,933.04	14,448,418.02	1,721,235.01	39.78457005	-80.71231781
11,400.00	91.00	329.81	6,163.78	5,396.63	-1,983.32	14,448,504.44	1,721,184.73	39.78480783	-80.71249580
11,500.00	91.00	329.81	6,162.04	5,483.05	-2,033.60	14,448,590.87	1,721,134.45	39.78504562	-80.71267379
11,600.00	91.00	329.81	6,160.29	5,569.47	-2,083.88	14,448,677.29	1,721,084.17	39.78528340	-80.71285178
11,700.00	91.00	329.81	6,158.55	5,655.90	-2,134.16	14,448,763.71	1,721,033.89	39.78552118	-80.71302977
11,800.00	91.00	329.81	6,156.81	5,742.32	-2,184.44	14,448,850.14	1,720,983.61	39.78575896	-80.71320776
11,900.00	91.00	329.81	6,155.07	5,828.74	-2,234.72	14,448,936.56	1,720,933.33	39.78599674	-80.71338575
12,000.00	91.00	329.81	6,153.32	5,915.16	-2,285.00	14,449,022.98	1,720,883.05	39.78623452	-80.71356375
12,100.00	91.00	329.81	6,151.58	6,001.59	-2,335.28	14,449,109.40	1,720,832.77	39.78647230	-80.71374175
12,200.00	91.00	329.81	6,149.84	6,088.01	-2,385.56	14,449,195.83	1,720,782.49	39.78671009	-80.71391974
12,300.00	91.00	329.81	6,148.10	6,174.43	-2,435.84	14,449,282.25	1,720,732.21	39.78694787	-80.71409774
12,400.00	91.00	329.81	6,146.35	6,260.85	-2,486.12	14,449,368.67	1,720,681.93	39.78718565	-80.71427574
12,500.00	91.00	329.81	6,144.61	6,347.28	-2,536.40	14,449,455.09	1,720,631.65	39.78742343	-80.71445374
12,600.00	91.00	329.81	6,142.87	6,433.70	-2,586.68	14,449,541.52	1,720,581.37	39.78766120	-80.71463174
12,700.00	91.00	329.81	6,141.13	6,520.12	-2,636.96	14,449,627.94	1,720,531.09	39.78789898	-80.71480975
12,800.00	91.00	329.81	6,139.38	6,606.55	-2,687.24	14,449,714.36	1,720,480.81	39.78813676	-80.71498775
12,900.00	91.00	329.81	6,137.64	6,692.97	-2,737.52	14,449,800.79	1,720,430.53	39.78837454	-80.71516576
13,000.00	91.00	329.81	6,135.90	6,779.39	-2,787.80	14,449,887.21	1,720,380.25	39.78861232	-80.71534377
13,100.00	91.00	329.81	6,134.15	6,865.81	-2,838.08	14,449,973.63	1,720,329.97	39.78885010	-80.71552177
13,200.00	91.00	329.81	6,132.41	6,952.24	-2,888.36	14,450,060.05	1,720,279.69	39.78908788	-80.71569978
13,300.00	91.00	329.81	6,130.67	7,038.66	-2,938.64	14,450,146.48	1,720,229.41	39.78932565	-80.71587780
13,400.00	91.00	329.81	6,128.93	7,125.08	-2,988.92	14,450,232.90	1,720,179.13	39.78956343	-80.71605581
13,500.00	91.00	329.81	6,127.18	7,211.50	-3,039.20	14,450,319.32	1,720,128.85	39.78980121	-80.71623382
13,600.00	91.00	329.81	6,125.44	7,297.93	-3,089.48	14,450,405.74	1,720,078.57	39.79003898	-80.71641184
13,700.00	91.00	329.81	6,123.70	7,384.35	-3,139.76	14,450,492.17	1,720,028.29	39.79027676	-80.71658985
13,800.00	91.00	329.81	6,121.96	7,470.77	-3,190.04	14,450,578.59	1,719,978.01	39.79051454	-80.71676787
13,900.00	91.00	329.81	6,120.21	7,557.19	-3,240.32	14,450,665.01	1,719,927.73	39.79075231	-80.71694589
14,000.00	91.00	329.81	6,118.47	7,643.62	-3,290.60	14,450,751.43	1,719,877.45	39.79099009	-80.71712391
14,100.00	91.00	329.81	6,116.73	7,730.04	-3,340.88	14,450,837.86	1,719,827.17	39.79122786	-80.71730193
14,200.00	91.00	329.81	6,114.99	7,816.46	-3,391.16	14,450,924.28	1,719,776.89	39.79146564	-80.71747995
14,300.00	91.00	329.81	6,113.24	7,902.89	-3,441.44	14,451,010.70	1,719,726.61	39.79170341	-80.71765797
14,400.00	91.00	329.81	6,111.50	7,989.31	-3,491.72	14,451,097.13	1,719,676.33	39.79194119	-80.71783600
14,500.00	91.00	329.81	6,109.76	8,075.73	-3,542.00	14,451,183.55	1,719,626.05	39.79217896	-80.71801402
14,600.00	91.00	329.81	6,108.02	8,162.15	-3,592.28	14,451,269.97	1,719,575.77	39.79241673	-80.71819205
14,700.00	91.00	329.81	6,106.27	8,248.58	-3,642.56	14,451,356.39	1,719,525.49	39.79265451	-80.71837008
14,800.00	91.00	329.81	6,104.53	8,335.00	-3,692.84	14,451,442.82	1,719,475.21	39.79289228	-80.71854811



Planning Report - Geographic

Database: DB_Jul2216dt_v14 It
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia.
 Site: Knob Creek
 Well: Knob Creek N-04HM (slot J)
 Wellbore: Original Hole
 Design: rev2

Local Co-ordinate Reference: Well Knob Creek N-04HM (slot J)
 TVD Reference: GL=737 @ 737.00usft
 MD Reference: GL=737 @ 737.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,900.00	91.00	329.81	6,102.79	8,421.42	-3,743.12	14,451,529.24	1,719,424.93	39.79313005	-80.71872614
15,000.00	91.00	329.81	6,101.05	8,507.84	-3,793.40	14,451,615.66	1,719,374.65	39.79336783	-80.71890417
15,100.00	91.00	329.81	6,099.30	8,594.27	-3,843.68	14,451,702.08	1,719,324.37	39.79360560	-80.71908220
15,200.00	91.00	329.81	6,097.56	8,680.69	-3,893.96	14,451,788.51	1,719,274.09	39.79384337	-80.71926024
15,300.00	91.00	329.81	6,095.82	8,767.11	-3,944.24	14,451,874.93	1,719,223.81	39.79408114	-80.71943827
15,400.00	91.00	329.81	6,094.08	8,853.54	-3,994.52	14,451,961.35	1,719,173.52	39.79431892	-80.71961631
15,500.00	91.00	329.81	6,092.33	8,939.96	-4,044.80	14,452,047.78	1,719,123.24	39.79455669	-80.71979435
15,600.00	91.00	329.81	6,090.59	9,026.38	-4,095.08	14,452,134.20	1,719,072.96	39.79479446	-80.71997238
15,700.00	91.00	329.81	6,088.85	9,112.80	-4,145.36	14,452,220.62	1,719,022.68	39.79503223	-80.72015042
15,800.00	91.00	329.81	6,087.11	9,199.23	-4,195.64	14,452,307.04	1,718,972.40	39.79527000	-80.72032847
15,900.00	91.00	329.81	6,085.36	9,285.65	-4,245.92	14,452,393.47	1,718,922.12	39.79550777	-80.72050651
16,000.00	91.00	329.81	6,083.62	9,372.07	-4,296.20	14,452,479.89	1,718,871.84	39.79574554	-80.72068455
16,100.00	91.00	329.81	6,081.88	9,458.49	-4,346.48	14,452,566.31	1,718,821.56	39.79598331	-80.72086260
16,200.00	91.00	329.81	6,080.14	9,544.92	-4,396.76	14,452,652.73	1,718,771.28	39.79622108	-80.72104064
16,300.00	91.00	329.81	6,078.39	9,631.34	-4,447.04	14,452,739.16	1,718,721.00	39.79645885	-80.72121869
16,400.00	91.00	329.81	6,076.65	9,717.76	-4,497.32	14,452,825.58	1,718,670.72	39.79669662	-80.72139674
16,500.00	91.00	329.81	6,074.91	9,804.18	-4,547.60	14,452,912.00	1,718,620.44	39.79693439	-80.72157479
16,600.00	91.00	329.81	6,073.17	9,890.61	-4,597.88	14,452,998.42	1,718,570.16	39.79717215	-80.72175284
16,700.00	91.00	329.81	6,071.42	9,977.03	-4,648.16	14,453,084.85	1,718,519.88	39.79740992	-80.72193089
16,800.00	91.00	329.81	6,069.68	10,063.45	-4,698.44	14,453,171.27	1,718,469.60	39.79764769	-80.72210895
16,900.00	91.00	329.81	6,067.94	10,149.88	-4,748.72	14,453,257.69	1,718,419.32	39.79788546	-80.72228700
17,000.00	91.00	329.81	6,066.20	10,236.30	-4,799.00	14,453,344.12	1,718,369.04	39.79812322	-80.72246506
17,100.00	91.00	329.81	6,064.45	10,322.72	-4,849.28	14,453,430.54	1,718,318.76	39.79836099	-80.72264312
17,200.00	91.00	329.81	6,062.71	10,409.14	-4,899.56	14,453,516.96	1,718,268.48	39.79859876	-80.72282118
17,300.00	91.00	329.81	6,060.97	10,495.57	-4,949.84	14,453,603.38	1,718,218.20	39.79883652	-80.72299924
17,400.00	91.00	329.81	6,059.23	10,581.99	-5,000.12	14,453,689.81	1,718,167.92	39.79907429	-80.72317730
17,500.00	91.00	329.81	6,057.48	10,668.41	-5,050.40	14,453,776.23	1,718,117.64	39.79931206	-80.72335536
17,600.00	91.00	329.81	6,055.74	10,754.83	-5,100.68	14,453,862.65	1,718,067.36	39.79954982	-80.72353342
17,700.00	91.00	329.81	6,054.00	10,841.26	-5,150.97	14,453,949.07	1,718,017.08	39.79978759	-80.72371149
17,800.00	91.00	329.81	6,052.26	10,927.68	-5,201.25	14,454,035.50	1,717,966.80	39.80002535	-80.72388955
17,900.00	91.00	329.81	6,050.51	11,014.10	-5,251.53	14,454,121.92	1,717,916.52	39.80026312	-80.72406762
18,000.00	91.00	329.81	6,048.77	11,100.52	-5,301.81	14,454,208.34	1,717,866.24	39.80050088	-80.72424569
18,100.00	91.00	329.81	6,047.03	11,186.95	-5,352.09	14,454,294.76	1,717,815.96	39.80073864	-80.72442376
18,200.00	91.00	329.81	6,045.29	11,273.37	-5,402.37	14,454,381.19	1,717,765.68	39.80097641	-80.72460183
18,300.00	91.00	329.81	6,043.54	11,359.79	-5,452.65	14,454,467.61	1,717,715.40	39.80121417	-80.72477990
18,400.00	91.00	329.81	6,041.80	11,446.22	-5,502.93	14,454,554.03	1,717,665.12	39.80145194	-80.72495797
18,500.00	91.00	329.81	6,040.06	11,532.64	-5,553.21	14,454,640.46	1,717,614.84	39.80168970	-80.72513605
18,600.00	91.00	329.81	6,038.32	11,619.06	-5,603.49	14,454,726.88	1,717,564.56	39.80192746	-80.72531412
18,700.00	91.00	329.81	6,036.57	11,705.48	-5,653.77	14,454,813.30	1,717,514.28	39.80216522	-80.72549220
18,800.00	91.00	329.81	6,034.83	11,791.91	-5,704.05	14,454,899.72	1,717,464.00	39.80240299	-80.72567028
18,900.00	91.00	329.81	6,033.09	11,878.33	-5,754.33	14,454,986.15	1,717,413.72	39.80264075	-80.72584836
19,000.00	91.00	329.81	6,031.35	11,964.75	-5,804.61	14,455,072.57	1,717,363.44	39.80287851	-80.72602644
19,100.00	91.00	329.81	6,029.60	12,051.17	-5,854.89	14,455,158.99	1,717,313.16	39.80311627	-80.72620452
19,200.00	91.00	329.81	6,027.86	12,137.60	-5,905.17	14,455,245.41	1,717,262.88	39.80335403	-80.72638260
19,300.00	91.00	329.81	6,026.12	12,224.02	-5,955.45	14,455,331.84	1,717,212.60	39.80359179	-80.72656069
19,400.00	91.00	329.81	6,024.38	12,310.44	-6,005.73	14,455,418.26	1,717,162.32	39.80382955	-80.72673877
19,500.00	91.00	329.81	6,022.63	12,396.87	-6,056.01	14,455,504.68	1,717,112.04	39.80406731	-80.72691686
19,600.00	91.00	329.81	6,020.89	12,483.29	-6,106.29	14,455,591.11	1,717,061.76	39.80430507	-80.72709495
19,700.00	91.00	329.81	6,019.15	12,569.71	-6,156.57	14,455,677.53	1,717,011.48	39.80454283	-80.72727304
19,800.00	91.00	329.81	6,017.41	12,656.13	-6,206.85	14,455,763.95	1,716,961.20	39.80478059	-80.72745113
19,823.31	91.00	329.81	6,017.00	12,676.28	-6,218.57	14,455,784.10	1,716,949.48	39.80483601	-80.72749264

PBHL/TD 19823.31 MD 6017.00 TVD



Planning Report - Geographic

Database:	DB_Jul2216dt_v14 lt	Local Co-ordinate Reference:	Well Knob Creek N-04HM (slot J)
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-04HM (slot J)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Knob Creek N-04HM BH - plan hits target center - Point	0.00	0.00	6,017.00	12,676.28	-6,218.57	14,455,784.10	1,716,949.48	39.80483601	-80.72749264
Knob Creek N-04HM LP - plan misses target center by 0.01usft at 6796.26usft MD (6244.00 TVD, 1417.95 N, 331.44 E) - Point	0.00	0.00	6,244.00	1,417.95	331.43	14,444,525.76	1,723,499.48	39.77386063	-80.70430299
Knob Creek N-04HM LP - plan misses target center by 43.23usft at 6821.40usft MD (6243.56 TVD, 1439.68 N, 318.80 E) - Point	0.00	0.00	6,244.00	1,417.95	281.43	14,444,525.76	1,723,449.48	39.77386108	-80.70448095

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,500.00	1,500.00	0.00	0.00	KOP Begin 2°/100' build
1,600.00	1,599.98	-0.87	1.51	Begin 2°/100' turn
1,651.75	1,651.70	-1.32	3.20	Begin 2.00° tangent section
3,100.93	3,100.00	-1.32	53.77	Begin 2°/100' build/turn
4,225.33	4,192.14	199.56	176.21	Begin 23.33° tangent section
5,924.59	5,752.47	798.94	482.21	Begin 8°/100' build
6,354.76	6,098.69	1,043.20	486.07	Begin 8°/100' build
6,796.26	6,244.00	1,417.95	331.44	Begin 91.00° lateral section
19,823.31	6,017.00	12,676.28	-6,218.57	PBHL/TD 19823.31 MD 6017.00 TVD

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



Well Site Safety Plan

Tug Hill Operating, LLC

JW
10/29/2020

Well Name: Knob Creek N-4HM

Pad Location: Knob Creek Pad

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:

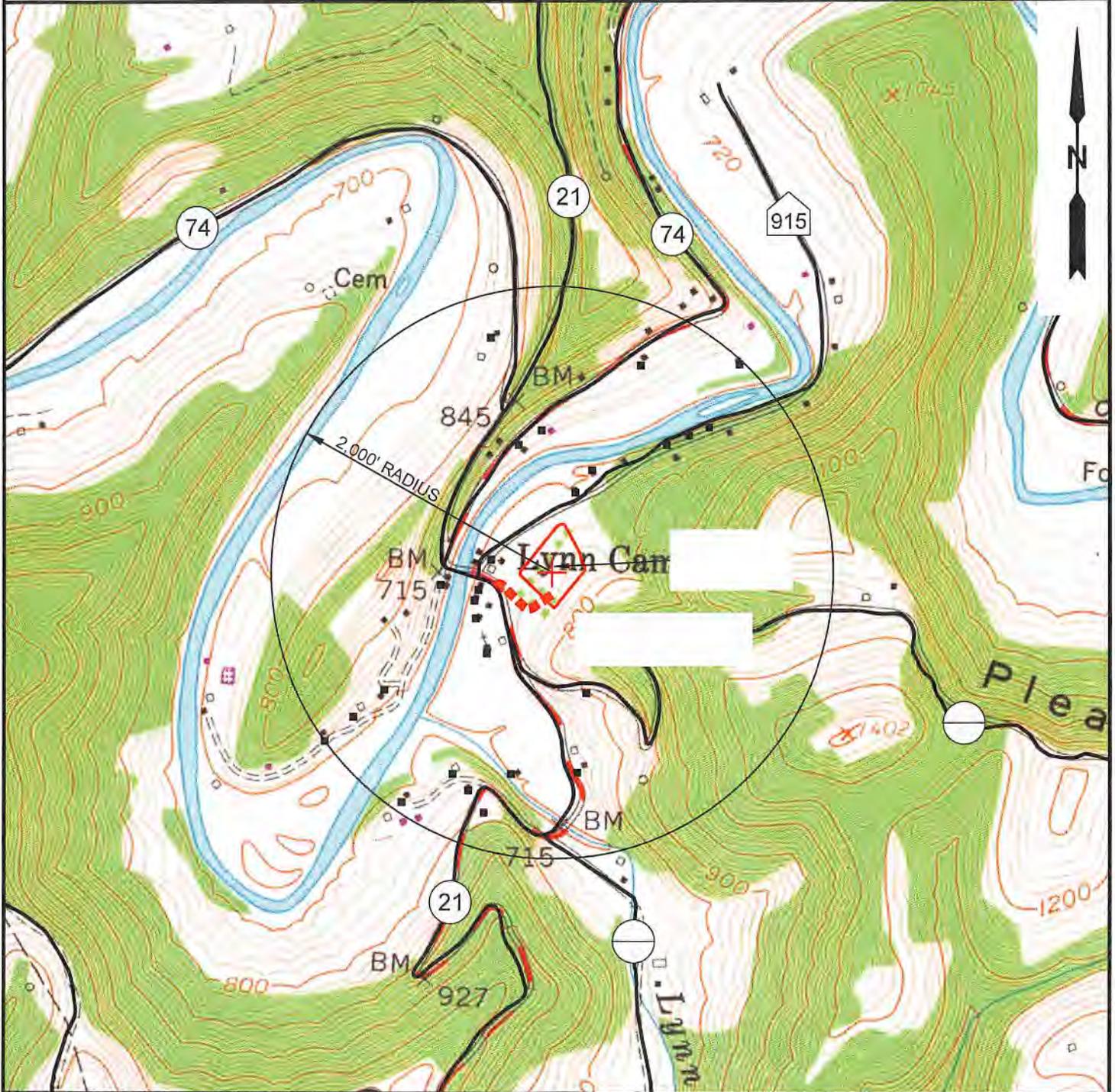
Northing: 4,402,268.07

Easting: 525,222.67

October 2020

03/19/2021

PROPOSED KNOB CREEK N - 4HM



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

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5634
www.slsurveys.com

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	07/27/2018	1" = 1000'



TUG HILL
OPERATING

03/19/2021

**Knob Creek N Lease
Well 4HM
Tug Hill Operating**

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

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

NAD'83 S.P.C.(FT) N. 464,835.51 E. 1,629,662.35
NAD'83 GEO. LAT-(N) 39.769970 LONG-(W) 80.705499
NAD'83 UTM (M) N. 4,402,288.07 E. 525,222.67

LANDING POINT

NAD'83 S.P.C.(FT) N. 465,248.2 E. 1,630,017.6
NAD'83 GEO. LAT-(N) 39.773861 LONG-(W) 80.704303
NAD'83 UTM (M) N. 4,402,700.3 E. 525,323.7

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 477,618.2 E. 1,623,654.4
NAD'83 GEO. LAT-(N) 39.804836 LONG-(W) 80.727493
NAD'83 UTM (M) N. 4,406,131.8 E. 523,327.2

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

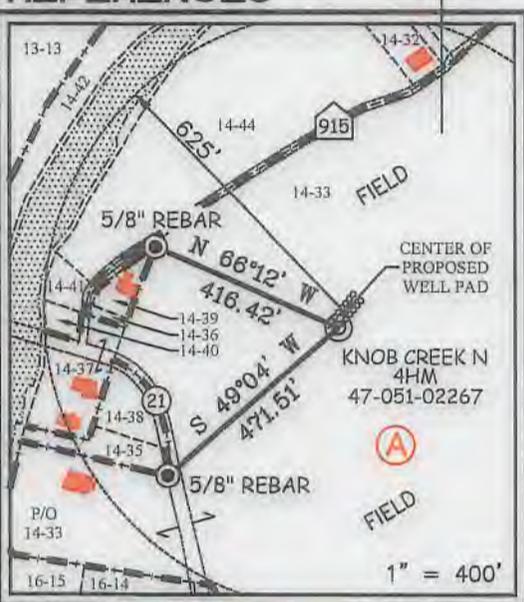
7,903' T.H.

10,381' B.H.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-10-8	BRENT ALLEN CONNER	2.00
9-10-10	RALPH MARTIN TAYLOR	2.23
9-10-14	WILLIAM MCCONNELL	15.00
9-11-1	GERALD F. PADLOW	1.033
9-11-2.1	KENNETH P. GATEWOOD, ET UX	0.308
9-11-2.2	GERALD F. PADLOW, ET UX	0.291
9-13-10	ARTHUR L. MOORE	3.96
9-13-13	MARGARET K. FOX - LIFE	15.513
9-14-1.2	KENNETH N. & TERESA A. SMERTNECK	1.02
9-14-11.3	PATRICK J. SCHELLHASE - TRUST	23.424
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-29	ANDREW FASOULETOS, ET UX	0.209
9-14-29.1	ANDREW FASOULETOS, ET UX	1.171
9-14-30	WILLIAM C. GROFT, ET UX	0.35
9-14-32	TWILA C. COFFIELD	0.583
9-14-32.1	TWILA C. COFFIELD	0.184
9-14-35	PAUL G. FOX	0.338
9-14-36	MARGARET FOX - LIFE	1600 SQ. FT.
9-14-37	MARGARET FOX - LIFE	LOT

MAP/PARCEL	ADJOINING SURFACE OWNER LIST - CONTINUED	ACRES
9-14-38	MARGARET FOX - LIFE	0.631
9-14-39	MARGARET FOX - LIFE	8675 SQ. FT.
9-14-40	MARGARET FOX - LIFE	19,560 SQ. FT.
9-14-41	MARGARET FOX - LIFE	9165 SQ. FT.
9-14-42	JOHN C. LAGOS, ET UX	1.87
9-14-43	JAMES G. FOX	0.66
9-14-44	DAVID LEE FRANKLIN	2.913
9-14-45	GEORGE R. TAYLOR, ET UX	10.98
9-14-46.1	MARTHA JANE FAZZARO	1.512
9-14-47	MICHAEL L. & CHERYL J. ACREE	0.335
9-14-48	MICHAEL L. & CHERYL J. ACREE	0.473
9-14-49	MICHAEL L. & CHERYL J. ACREE	0.118
9-14-50	RONALD MARSH	0.707
9-14-52	JAMES E. PEELMAN	0.439
9-14-53	JAMES E. PEELMAN	0.555
9-14-54	RICHARD L. HARVETH, ET UX	1.649
9-16-14	LYNN CAMP METHODIST CHURCH	0.762
9-16-15	RONALD R. YOUNG, ET UX - LIFE	32.02
9-16-15.1	ERIC J. YOUNG	1.98

REFERENCES



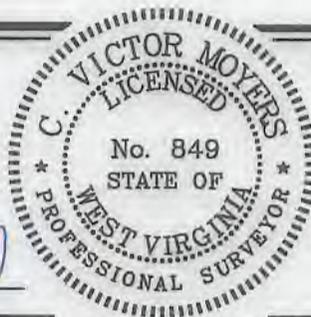
12 Vaalovm Drive | P.O. Box 150 | Glenville, WV 26035 | 304.462.9634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.1952
254 East Beckley Bypass | Beckley, WV 25801 | 304.285.0206
slsvw.com

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- SEE REFERENCES FOR DWELLINGS LOCATED WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.

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 JULY 27, 20 18
REVISED 08-20-2019, 10-29-2020
OPERATORS WELL NO. Knob Creek N-4HM
API WELL NO. 47 - 051 - 02267 MOD HGA
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P4HMR2.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'
KNOB CREEK N-4HM REV2

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

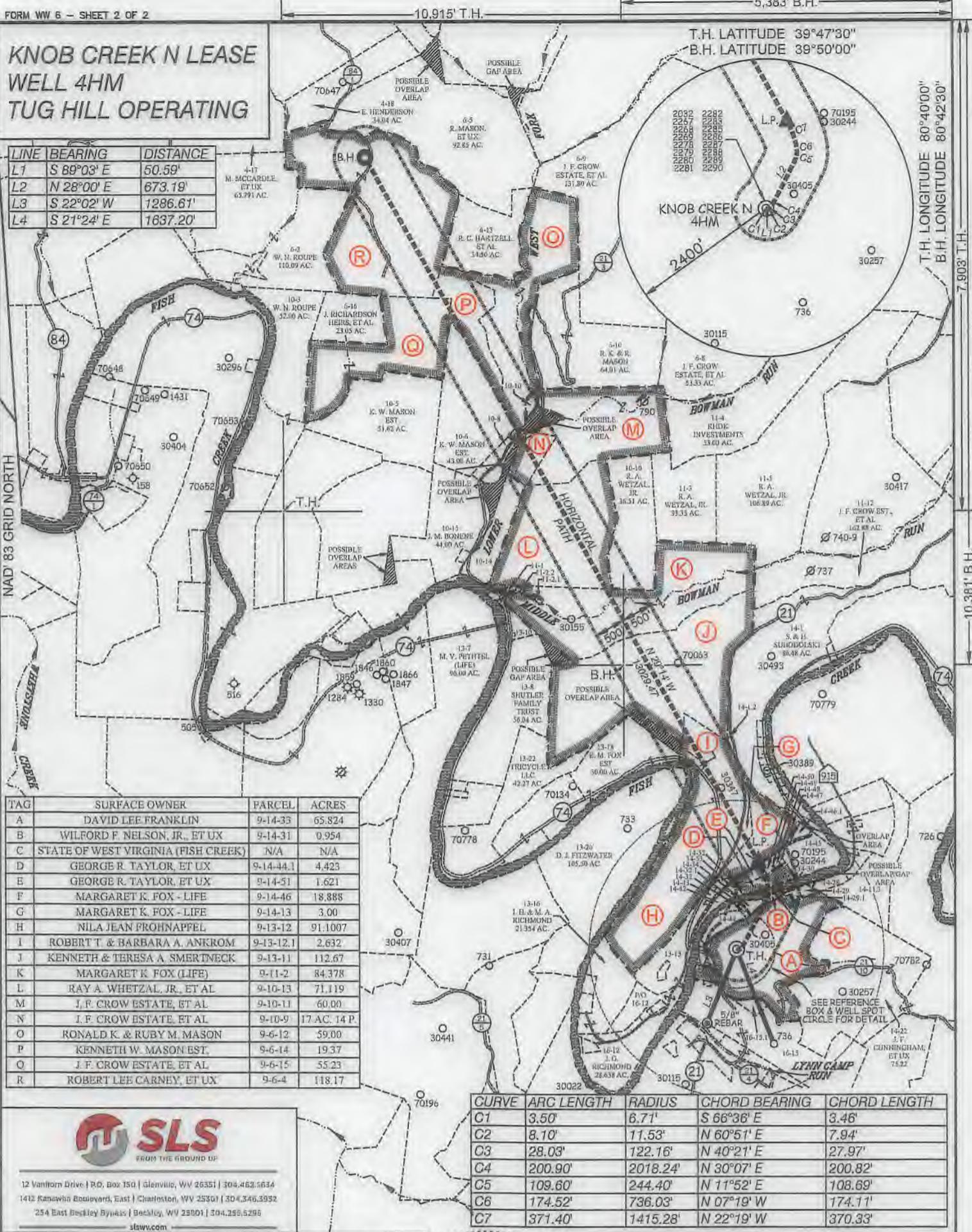
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD: 6,360' / TMD: 19,823'

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 4HM Tug Hill Operating

LINE	BEARING	DISTANCE
L1	S 89°03' E	50.59'
L2	N 28°00' E	673.19'
L3	S 22°02' W	1286.61'
L4	S 21°24' E	1637.20'

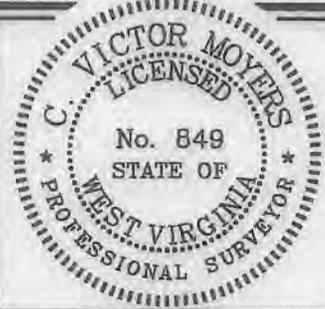


TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	WILFORD F. NELSON, JR., ET UX	9-14-31	0.954
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	GEORGE R. TAYLOR, ET UX	9-14-44.1	4.423
E	GEORGE R. TAYLOR, ET UX	9-14-51	1.621
F	MARGARET K. FOX - LIFE	9-14-46	18.885
G	MARGARET K. FOX - LIFE	9-14-13	3.00
H	NILA JEAN PROHNAPFEL	9-13-12	91.1007
I	ROBERT T. & BARBARA A. ANKROM	9-13-12.1	2.632
J	KENNETH & TERESA A. SMERTNECK	9-13-11	112.67
K	MARGARET K. FOX (LIFE)	9-11-2	84.378
L	RAY A. WHETZAL, JR., ET AL	9-10-13	71.119
M	J. F. CROW ESTATE, ET AL	9-10-11	60.00
N	J. F. CROW ESTATE, ET AL	9-10-9	17 AC. 14 P.
O	RONALD K. & RUBY M. MASON	9-6-12	59.00
P	KENNETH W. MASON EST.	9-6-14	19.37
Q	J. F. CROW ESTATE, ET AL	9-6-15	55.23
R	ROBERT LEB CARNEY, ET UX	9-6-4	118.17

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	3.50'	6.71'	S 66°36' E	3.46'
C2	8.10'	11.53'	N 60°51' E	7.94'
C3	28.03'	122.16'	N 40°21' E	27.97'
C4	200.90'	2018.24'	N 30°07' E	200.82'
C5	109.60'	244.40'	N 11°52' E	108.69'
C6	174.52'	736.03'	N 07°19' W	174.11'
C7	371.40'	1415.28'	N 22°19' W	370.33'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.463.6634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.256.5296
 slsw.com



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

P.S. 849 *C. Victor Moyers*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 464,835.51 E. 1,629,662.35
 NAD'83 GEO. LAT-(N) 39.769970 LONG-(W) 80.705499
 NAD'83 UTM (M) N. 4,402,268.07 E. 525,222.67
LANDING POINT
 NAD'83 S.P.C.(FT) N. 466,248.2 E. 1,630,017.6
 NAD'83 GEO. LAT-(N) 39.773861 LONG-(W) 80.704303
 NAD'83 UTM (M) N. 4,402,700.3 E. 525,923.7
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 477,618.2 E. 1,629,654.4
 NAD'83 GEO. LAT-(N) 39.804836 LONG-(W) 80.727493
 NAD'83 UTM (M) N. 4,406,131.8 E. 523,327.2

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. 8789P4HMR2.dwg
 KNOB CREEK N-4HM REV2
 DATE JULY 27, 2018
 REVISED 08-20-2019, 10-29-2020
 OPERATORS WELL NO. KNOB CREEK N-4HM
 API WELL NO. 47-051-02267
 NO. STATE COUNTY PERMIT

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

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

COUNTY NAME PERMIT

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:** 2/12/2021

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

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.

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

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

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.**

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.

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Knob Creek N-4HM
Well Pad Name: Knob Creek

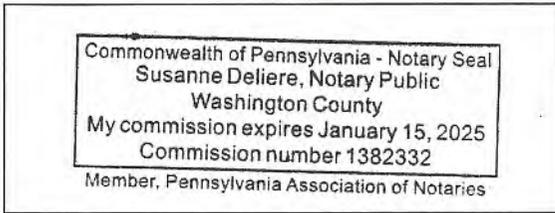
Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC
Telephone: 724-749-8388
Email: amorris@tug-hilltop.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 12th day of February 2021.
Susanne Deliere Notary Public
My Commission Expires 1/15/2025

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 – 4HM
 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>

<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>

<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 7084

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Domestic Mail Only

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

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: CNX Land Resources, Inc.
1000 Consol Energy Drive
Canonsburg, PA 15317

Postmark Here

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7019 1640 0002 2948 7077

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Return Receipt (electronic) \$ _____

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Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: Nila Jean Prohnapfel
11975 Fish Creek Road
Glen Easton, WV 26039

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7019 1640 0002 2948 7091

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Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: David Lee Franklin
131 Saint Joseph Road
Glen Easton, WV 26039

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7019 1640 0002 2948 7107

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: James G. Richmond, ET Ux
157 Richmond Lane
Glen Easton, WV 26039

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7019 1640 0002 2948 7114

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: Spencer J. & Carrie A. Richmond
293 Richmond Lane
Glen Easton, WV 26039

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: Wesley D. Yeater, Et Ux
37 Vandivere Lane
Glen Easton, WV 26039

Postmark Here

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7019 1640 0002 2948 7138

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: Paul W. Blake – Life
1500 8th Street
Moundsville, WV 26041-2031

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7019 1640 0002 2948 7145

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Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: Paul R. Blake & Paul R. Blake II
121 Vandivere Lane
Glen Easton, WV 26039-9707

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03/19/2021

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Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

To: Lynn Camp Methodist Church
 171 Saint Joseph Road
 Glen Easton, WV 26039

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PS Form 3800, April 2015 PSN 7500-02-000-9047 See Reverse for Instructions

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

To: Ronald R. Young, Et Ux
 348 Saint Joseph Road
 Glen Easton, WV 26039

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7019 1640 0002 2948 7176

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

To: Eric J. Young
 153 Young Lane
 Glen Easton, WV 26039

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

To: George R. Taylor, Et Ux
 12781 Fish Creek Road
 Glen Easton, WV 26039

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

To: Michael L. & Cheryl J. Acree
 189 Plum St.
 Proctor, WV 26055

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

To: Andrew Fasoluletos, Et Ux
 Rd. 2 Box 150
 Proctor, WV 26055

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

To: Richard L. Harveth, Et Ux
 c/o Richard Lee Harveth
 220 Crow Dr.
 Glen Easton, WV 26039

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

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

To: John C. Lagos, Et Ux
 404 Jefferson Avenue
 Glen Dale, WV 26038

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

Postage

\$ Total James E. Peelman
 \$ Sent 12551 Fish Creek Road
 \$ Street Glen Easton, WV 26039
 \$ City

Postmark
Here

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\$ _____
 Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$ Total Twila C. Coffield
 \$ Sent 16 Sandy Avenue
 \$ Street Moundsville, WV 26041-1020
 \$ City

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 Margaret K. Fox – Life
 \$ Sent c/o Paul Fox
 \$ Street 5761 Saint Joseph Road
 \$ City Proctor, WV 26055

Postmark
Here

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