Executive Drilling Report - MIP 3H-Pilot

Date:	8/28/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	6,923	6,923	6923

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	53
Pilot	Horizontal Spud Date:		Days From Horizontal:	

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

TIH @ 6,100'

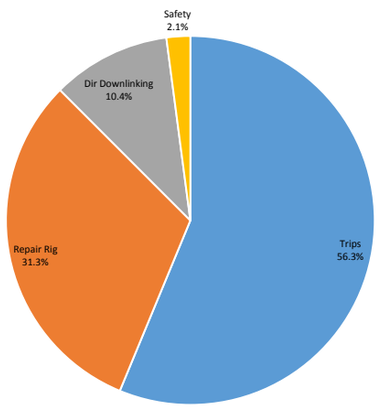
24 Hour Summary

Rig repairs 7 hours, TIH , Test DIR tools, Safety stand down, TIH to 6,100'

Log of Operations

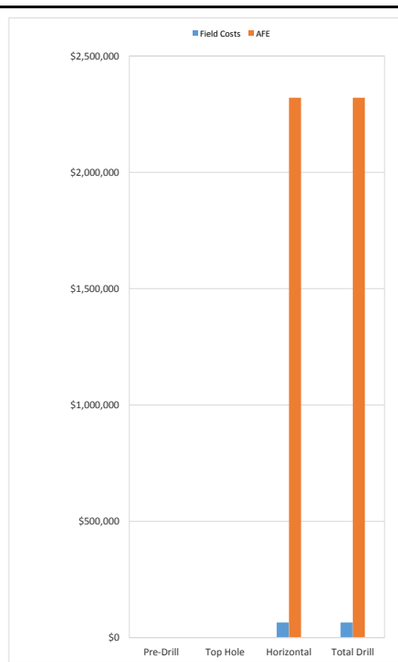
From	To	Hours	Time Code	Activity
06:00	13:00	7	Repair Rig	Trouble shoot & repair top drive (electrical)
13:00	13:30	0.5	Repair Rig	Rig service
13:30	16:30	3	Trips	Make up bit & directional tools
16:30	20:30	4	Trips	TIH to 2000' (picking up single joints drill pipe)
20:30	23:00	2.5	Dir Downlinking	Install rotating head & test directional MWD
23:00	23:30	0.5	Safety	Safety stand down.
23:30	06:00	6.5	Trips	TIH 2,000' to 6,100' (picking up single joints drill pipe)
Total:		24	TD at 6:00 AM:	6,923 feet

Activity Code	Total Hrs
Trips	13.5
Repair Rig	7.5
Dir Downlinking	2.5
Safety	0.5
Total Hours	24



Total Cost

Previous Day's Cumulative:		Daily Total:	$64,974
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$64,974
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$64,974



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	8/29/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	8/29/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,445	7,445	522

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	54
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	1

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

POOH to cut core.

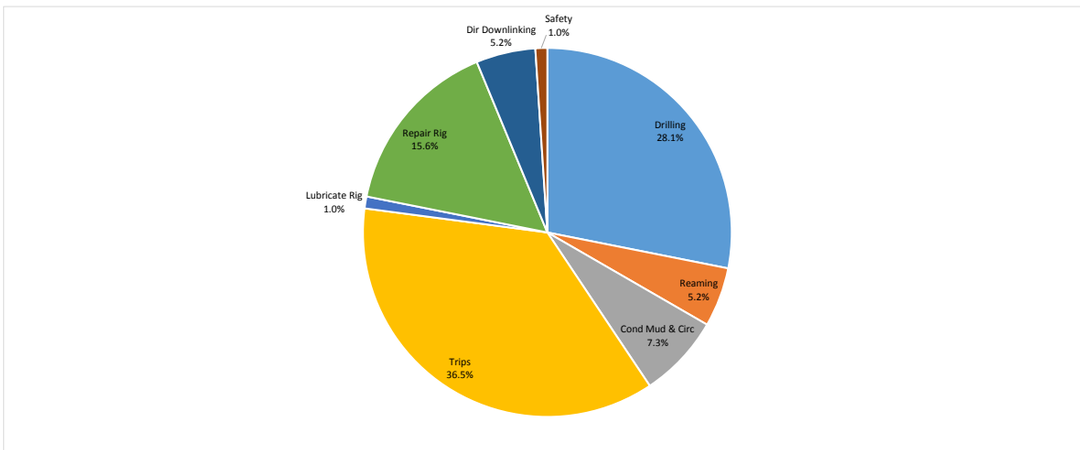
24 Hour Summary

TIH,Wash to bottom, Drill & slide 6935' to 7045',Circ, Wiper trip, Circ, POOH 7045' to 5,900'

Log of Operations

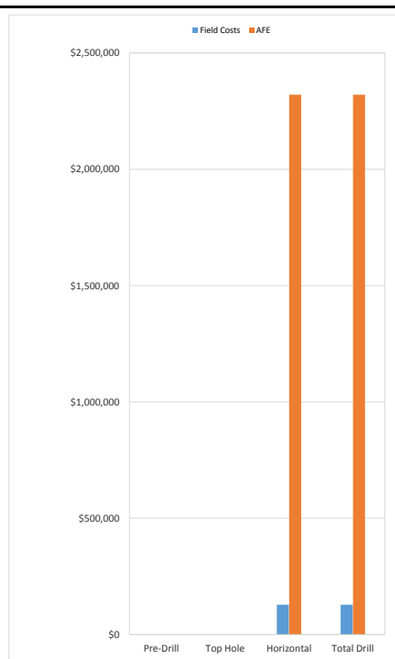
From	To	Hours	Time Code	Activity
06:00	07:30	1.5	Trips	TIH 6, 100' to 6,700' (picking up singles)
07:30	09:00	1.5	Cond Mud & Circ	Displace brine water in hole with WBM, (Store brine in frac tank)
09:00	11:30	2.5	Reaming	Wash & ream 6,700' to 6,935' (Bottom)
11:30	17:30	6	Drilling	Drill 6,935 to 7,052' 117' (Rotary drill 82' Slide 35') WOB 18 TO 20 RPM 50/ 102 GPM 354.
17:30	18:00	0.5	Lubricate Rig	Service rig & top drive
18:00	01:30	7.5	Drilling	Drill 7,052' to 7,445' 393, (Core point) Slide 84' Rotate 308') WOB 10 TO 20 RPM 60/124 GPM 430
01:30	02:00	0.5	Cond Mud & Circ	Circulate bottom up
02:00	03:30	1.5	Trips	10 stand wiper trip.
03:30	05:00	1.5	Cond Mud & Circ	Circulate shakers clean
05:00	06:00	1	Trips	POOH to cut core (7045' to 5900')
Total:		24	TD at 6:00 AM:	7,445 feet

Activity Code	Total Hrs
Drilling	13.5
Reaming	2.5
Cond Mud & Circ	3.5
Trips	17.5
Lubricate Rig	0.5
Repair Rig	7.5
Dir Downlinking	2.5
Safety	0.5
Total Hours	48



Total Cost

Previous Day's Cumulative:	$64,974	Daily Total:	$63,254
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$128,228
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$128,228



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	8/30/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	8/30/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,522	7,522	77

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	55
Pilot	Horizontal Spud Date:		Days From Horizontal:	

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

POOH ,Lay out BHA, Make up core tools, TIH, Cut 77' core

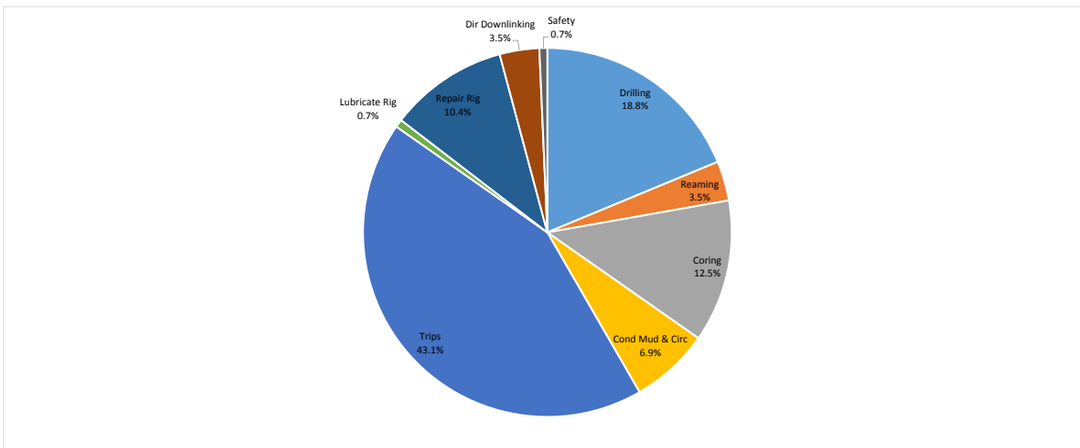
24 Hour Summary

POOH ,Lay out BHA, Make up core tools, TIH, Cut 77' core

Log of Operations

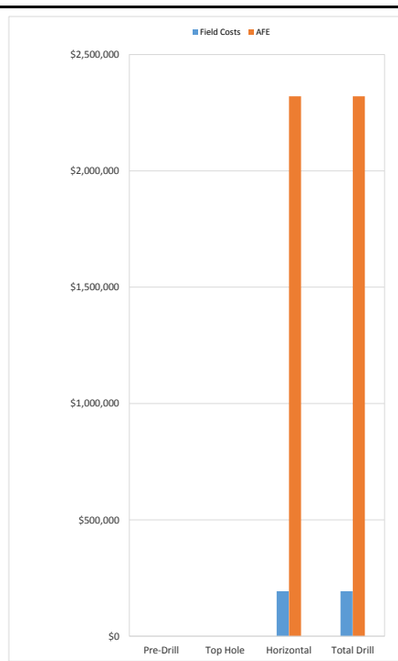
From	To	Hours	Time Code	Activity
06:00	09:00	3	Trips	POOH 5623' to 136' (BHA)
09:00	11:00	2	Trips	Lay down Directional tools
11:00	15:00	4	Trips	Make up coring tools
15:00	16:00	1	Trips	Service rig & top drive & Install rotating head
16:00	19:30	3.5	Trips	Continue TIH 148' to 7,355'
19:30	21:00	1.5	Cond Mud & Circ	Wash to bottom (7,355' to 7,447') & circulate bottom up
21:00	06:00	9	Coring	Cut core 7,445' to 7.522' 77' @ 8.5 fph
Total:		24	TD at 6:00 AM:	7,522 feet

Activity Code	Total Hrs
Drilling	13.5
Reaming	2.5
Coring	9
Cond Mud & Circ	5
Trips	31
Lubricate Rig	0.5
Repair Rig	7.5
Dir Downlinking	2.5
Safety	0.5
Total Hours	72



Total Cost

Previous Day's Cumulative:	$128,228	Daily Total:	$64,784
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$193,012
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$193,012



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	8/31/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	8/31/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,556	7,556	34

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	56
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	3

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Trip in hole to drill to 8,000'

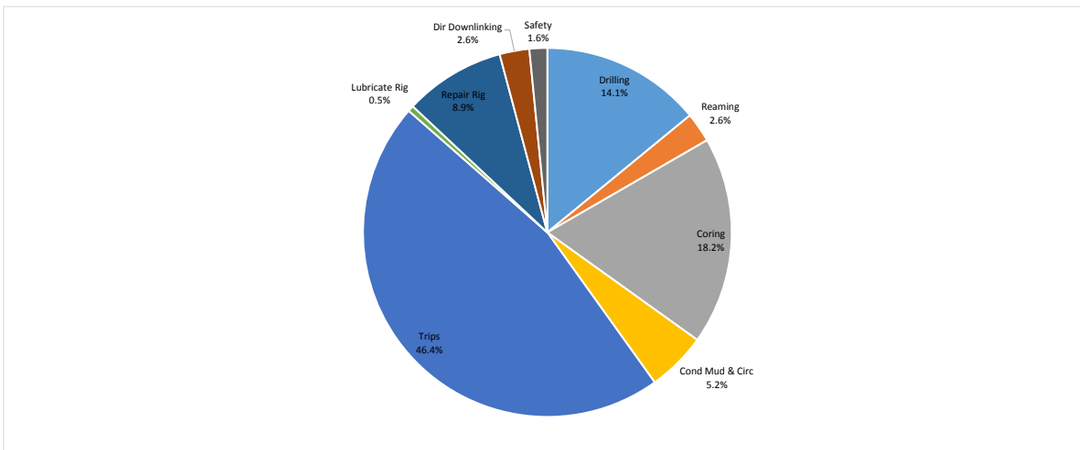
24 Hour Summary

Core to 7556'- POOH- Lay out core - Rig repair 1 hour- Clear floor- TIH to drill

Log of Operations

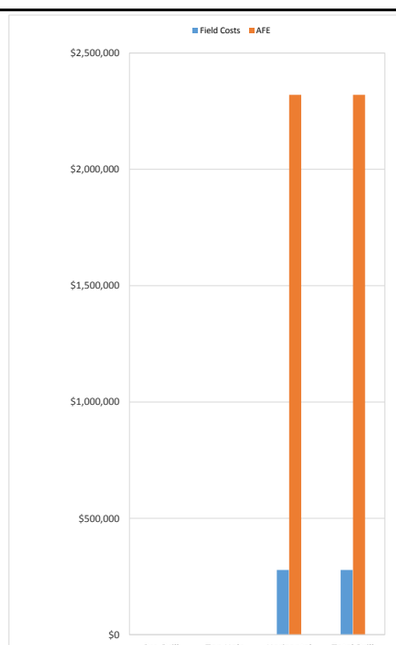
From	To	Hours	Time Code	Activity
06:00	12:00	6	Coring	Continue cutting core 7522' to 7556' Core barrel jammed @ 7556' (Total core cut 111')
12:00	22:00	10	Trips	POOH 7556' to core tools (Trip slow due to trip schedule)
22:00	00:30	2.5	Coring	Safety meeting & lay out core.
00:30	01:00	0.5	Trips	Lay out core tools (Chain broke on catwalk skate)
01:00	02:00	1	Repair Rig	Repair chain on catwalk skate
02:00	03:30	1.5	Trips	Lay down core tools
03:30	04:30	1	Safety	Safety meeting & clear floor .
04:30	06:00	1.5	Trips	Make up bit ,NBS & TIH to 500'
Total:		24	TD at 6:00 AM:	7,556 feet

Activity Code	Total Hrs
Drilling	13.5
Reaming	2.5
Coring	17.5
Cond Mud & Circ	5
Trips	44.5
Lubricate Rig	0.5
Repair Rig	8.5
Dir Downlinking	2.5
Safety	1.5
Total Hours	96



Total Cost

Previous Day's Cumulative:	$193,012	Daily Total:	$84,837
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$277,849
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$277,849



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/1/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/1/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,605	7,605	49

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	57
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	4

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Changing swivel packing

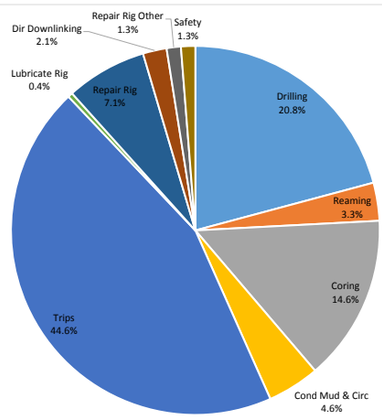
24 Hour Summary

TIH to 7237' Wash to bottom, Drill Onondaga 7556' to 7605', POOH for bit, TIH to 3600' Change swivel packing.

Log of Operations

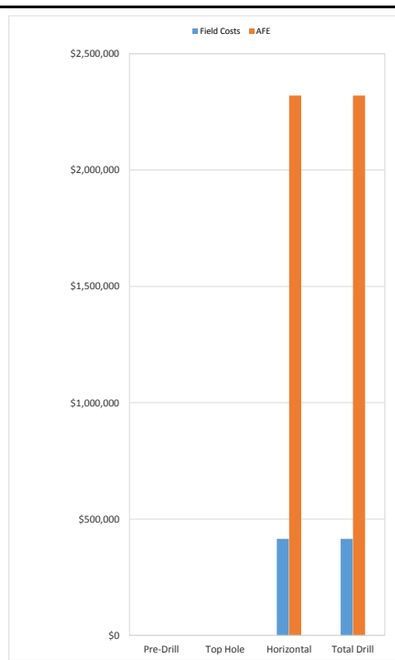
From	To	Hours	Time Code	Activity
06:00	09:30	3.5	Trips	TIH 500' to 7237' to drill 8.75" hole to 8000'
09:30	11:00	1.5	Reaming	Wash & ream to bottom
11:00	12:00	1	Repair Rig Other	Change out gasket in rotating head
12:00	23:30	11.5	Drilling	Drill 8.75" section 7,556' to 7,605' 49' @ 4.2 FPH (Onondaga) WOB 20 to 28- RPM 50 to 90- GPM 420
23:30	03:00	3.5	Trips	POOH to change out bit , Pulled slick good fill .
03:00	05:00	2	Trips	Change out bit (pick up 606X) TIH 3,600'
05:00	05:30	0.5	Cond Mud & Circ	Fill pipe-- repair swivel packing
05:30	06:00	0.5	Repair Rig Other	Change out swivel packing
Total:		24	TD at 6:00 AM:	7,605 feet

Activity Code	Total Hrs
Drilling	25
Reaming	4
Coring	17.5
Cond Mud & Circ	5.5
Trips	53.5
Lubricate Rig	0.5
Repair Rig	8.5
Dir Downlinking	2.5
Repair Rig Other	1.5
Safety	1.5
Total Hours	120



Total Cost

Previous Day's Cumulative:	$277,849	Daily Total:	$136,828
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$414,677
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$414,677



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/2/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/2/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,820	7,820	215

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	58
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	5

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Drilling ahead @ 7,820'

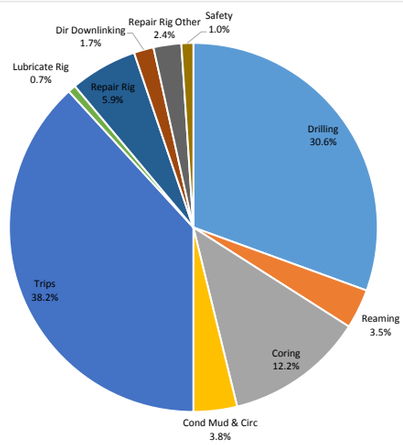
24 Hour Summary

Drilling Pilot Hole from 7605 to 7820' Pilot Section will be TD @ 7853

Log of Operations

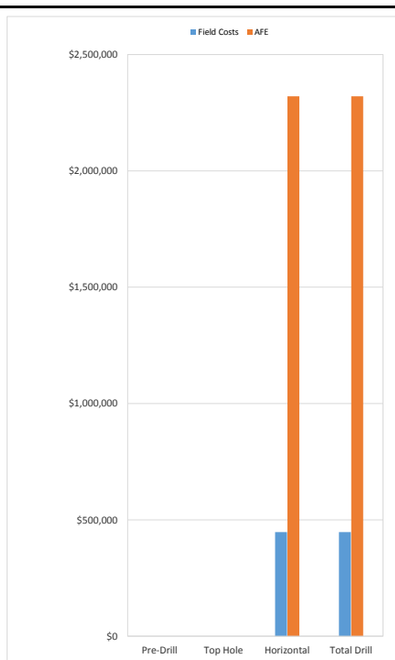
From	To	Hours	Time Code	Activity
06:00	08:00	2	Repair Rig Other	Change swivel packing
08:00	08:30	0.5	Lubricate Rig	Service rig & top drive
08:30	10:00	1.5	Trips	TIH 7,488' to 7,604' Ran slick good displacement
10:00	11:00	1	Reaming	Wash & ream to bottom
11:00	06:00	19	Drilling	Drill 8.75" pilot hole 7,604 to 7,820 @ 11.3 FPH WOB 20 RPM 50 GPM 520
Total:		24	TD at 6:00 AM:	7,820 feet

Activity Code	Total Hrs
Drilling	44
Reaming	5
Coring	17.5
Cond Mud & Circ	5.5
Trips	55
Lubricate Rig	1
Repair Rig	8.5
Dir Downlinking	2.5
Repair Rig Other	3.5
Safety	1.5
Total Hours	144



Total Cost

Previous Day's Cumulative:	$414,677	Daily Total:	$32,740
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$447,416
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$447,416



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/3/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/3/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	20

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	59
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	6

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Logging With SLB Wireline

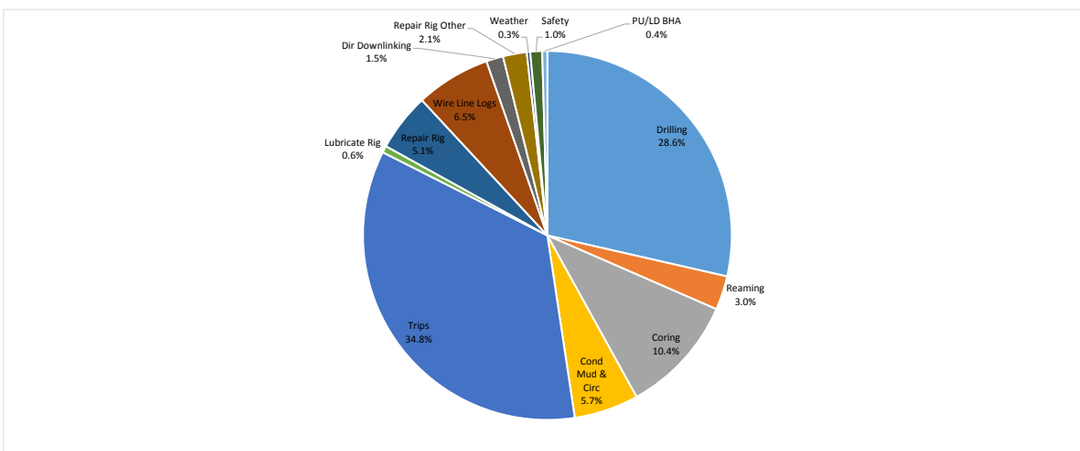
24 Hour Summary

TD Pilot Hole @ 7840, TOOH RU wireline and Log well

Log of Operations

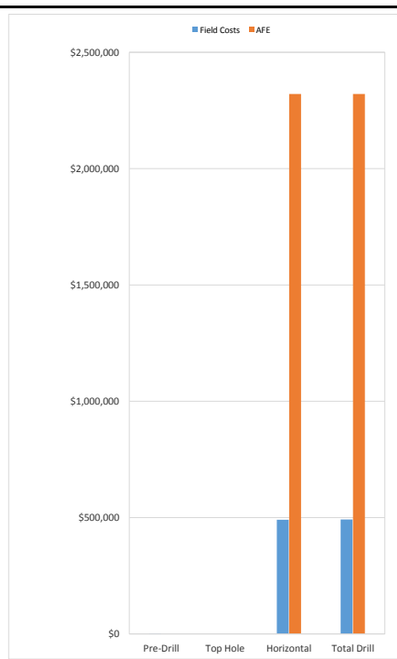
From	To	Hours	Time Code	Activity
06:00	10:00	4	Drilling	Drill 8.75" pilot section to TD of 7,840'
10:00	13:00	3	Cond Mud & Circ	Circulate hole clean to run logs & spot 30 BBL one pound over & 10 gallon dye for cores.
13:00	13:30	0.5	Trips	Pull 5 stand 7,840' to 7,380'
13:30	14:30	1	Cond Mud & Circ	Condition Mud and Circulate, Build and Pump Slug
14:30	16:30	2	Trips	TOOH F/7260- T/3283
16:30	17:00	0.5	Weather	Shut Down for Weather
17:00	18:00	1	Trips	TOOH F/3283 T/0 Bit
18:00	18:45	0.75	PU/LD BHA	LD Bit (11 chipped cutters) Clear floor. Spot Logging Truck
18:45	19:00	0.25	Safety	Safety Meeting with SLB logging Crew
19:00	21:00	2	Wire Line Logs	RU SLB Logging Crew. Hang Sheaves/PU Logging Tools for run #1
21:00	05:00	8	Wire Line Logs	Run#1 Triple combo (ON bottom @ 22:30 hours Log depth 7834' Log out hole @ 05:00hours)
05:00	06:00	1	Wire Line Logs	Change out Log tools
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
Drilling	48
Reaming	5
Coring	17.5
Cond Mud & Circ	9.5
Trips	58.5
Lubricate Rig	1
Repair Rig	8.5
Wire Line Logs	11
Dir Downlinking	2.5
Repair Rig Other	3.5
Weather	0.5
Safety	1.75
PU/LD BHA	0.75
Total Hours	168



Total Cost

Previous Day's Cumulative:	$446,082	Daily Total:	$44,459
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$1,334
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$490,541
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$491,875



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NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/4/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/4/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	60
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	7

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Cutting SW cores

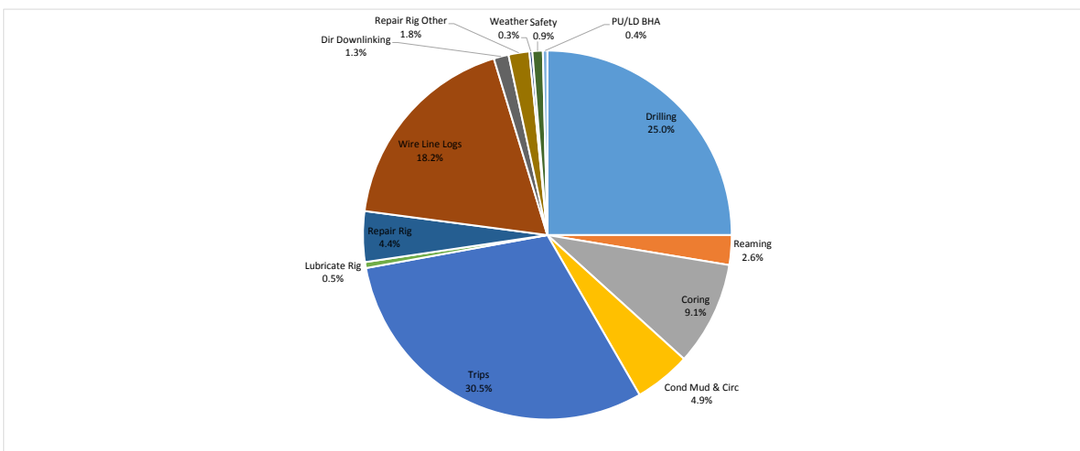
24 Hour Summary

LOG with CMR Gama & cut 15 SW cores

Log of Operations

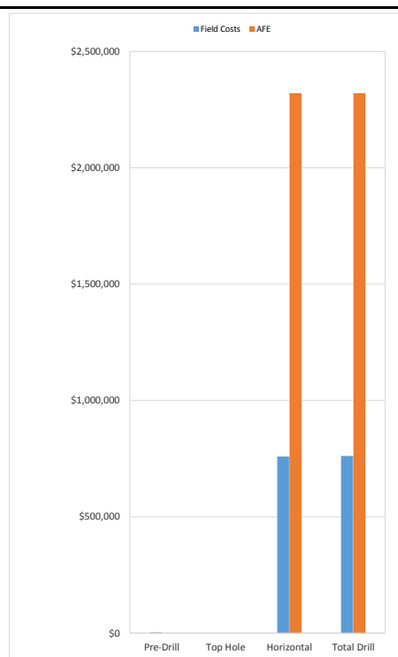
From	To	Hours	Time Code	Activity
06:00	19:00	13	Wire Line Logs	Log with CMR Gama 7,840' to 5,840, & 7,840' to 6,840' X 2
19:00	06:00	11	Wire Line Logs	Lay out Gama logs , Pick up core log & cut core samples. (POOH core tool jammed) Run in hole & coring. (Diesel used 868 Gas 22000)
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
Drilling	48
Reaming	5
Coring	17.5
Cond Mud & Circ	9.5
Trips	58.5
Lubricate Rig	1
Repair Rig	8.5
Wire Line Logs	35
Dir Downlinking	2.5
Repair Rig Other	3.5
Weather	0.5
Safety	1.75
PU/LD BHA	0.75
Total Hours	192



Total Cost

Previous Day's Cumulative:	$489,207	Daily Total:	$269,705
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$2,668
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$758,912
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$761,580



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/5/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/5/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	61
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	8

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Rig up cementers

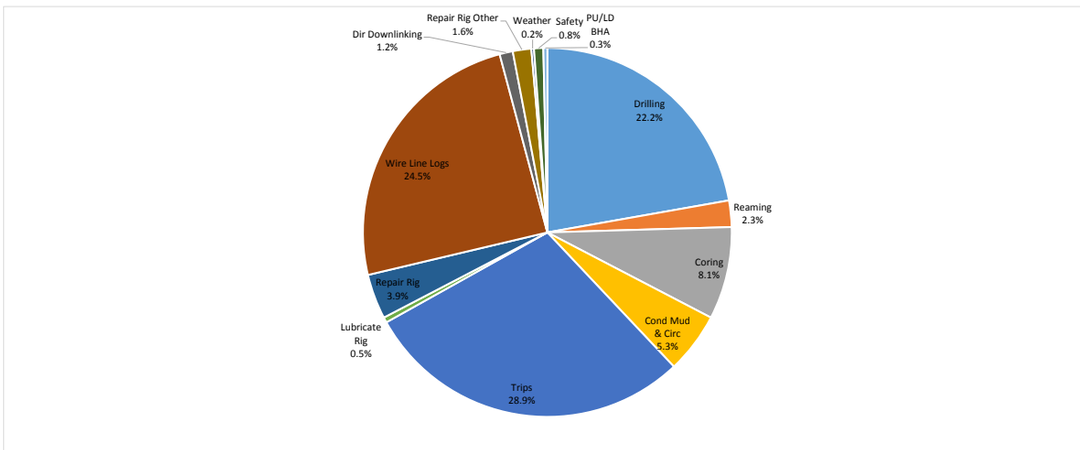
24 Hour Summary

Cut wire line core samples, one log run, TIH & circulate

Log of Operations

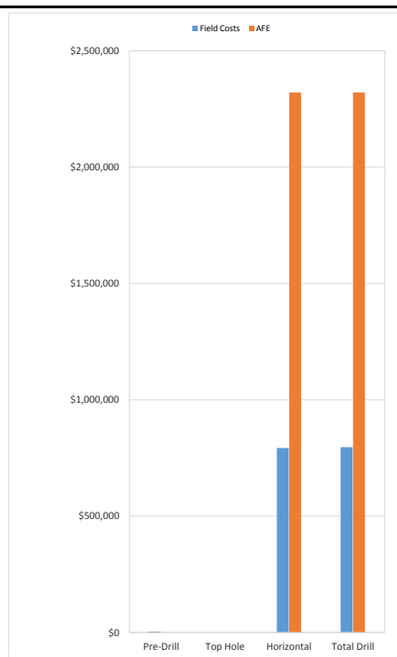
From	To	Hours	Time Code	Activity
06:00	12:30	6.5	Wire Line Logs	Cut core samples on wire line tool.
12:30	14:00	1.5	Wire Line Logs	POOH with core tools & lay out core samples.
14:00	00:00	10	Wire Line Logs	Wire line log
00:00	04:00	4	Trips	TIH with drill pipe open ended , to pump cement plugs.
04:00	06:00	2	Cond Mud & Circ	Circulate condition mud constant wt 12.5 PPG
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
Drilling	48
Reaming	5
Coring	17.5
Cond Mud & Circ	11.5
Trips	62.5
Lubricate Rig	1
Repair Rig	8.5
Wire Line Logs	53
Dir Downlinking	2.5
Repair Rig Other	3.5
Weather	0.5
Safety	1.75
PU/LD BHA	0.75
Total Hours	216



Total Cost

Previous Day's Cumulative:	$757,578	Daily Total:	$35,026
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$4,002
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$792,604
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$796,606



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/6/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/6/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5
API/Permit Number	**Target TD**	**TVD (ft)**	**MD (ft)**	**24-Hr Footage (ft)**	
47-061-01707	7,840	7,839	7,840		

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	62
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	9

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Prep to skid rig (Release Patterson254 to MIP 5H 9/7/15 06:00 hours

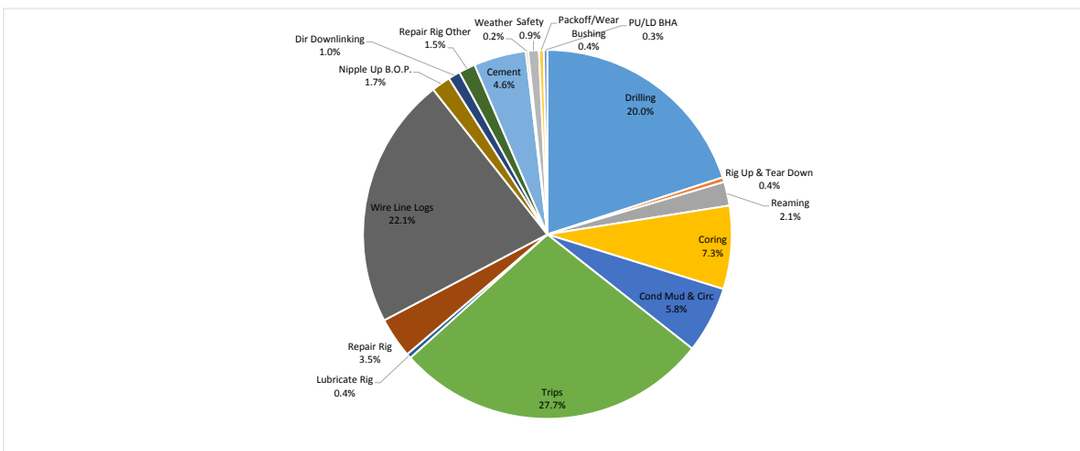
24 Hour Summary

Pump cement plug 3 stages, Displace WBM with CBM, POOH, Nipple down BOP, Prep rig to skid

Log of Operations

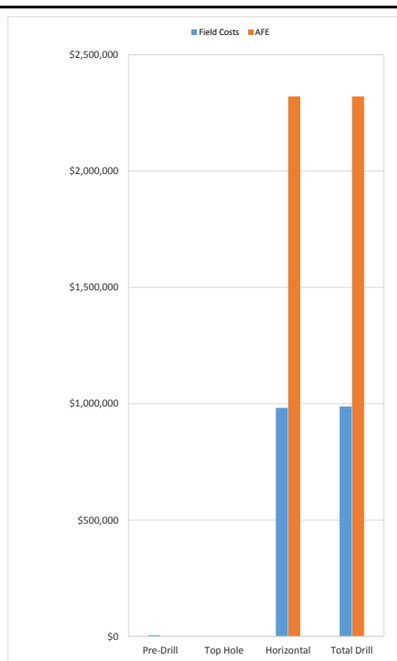
From	To	Hours	Time Code	Activity
06:00	07:30	1.5	Cement	Rig up Schlumberger to pump cement.
07:30	08:00	0.5	Safety	Safety meeting with Schlumberger, Patterson, Swaco, Newalta & NNE REP (Discuss cement procedure & safety)
08:00	11:00	3	Cement	Install cement head Hook up mud line to Schlumberger & pump first stage cement plug as follows 29 BBL mud push @ 14 PPG, 317 sacks(53 BBL CMT) @ 17.5 PPG , 10 BBL mud push @ 14 PPG & displace with 113 BBL fresh water. Pull 7 stands (654') & Circulate
11:00	14:00	3	Cement	Pump second stage as follows 29 BBL mud push @ 14 PPG (317 sacks) 53 BBL CMT @ 17.5 PPG , 10 BBL mud space @ 14 PPG & displace with 103 BBL fresh water Pull 7 stands & Circulate
14:00	17:30	3.5	Cement	Pump final stage as follows 29 BBL mud push @ 14 PPG (251 sacks) 42 BBL CMT @ 17.5 PPG 10 BBL mud spacer @ 14 PPG & displace with 91 BBL fresh water Pull 7 stands & Reverse circulate 95 BBL. TOC 6,080'
17:30	20:00	2.5	Cond Mud & Circ	Displace WBM with SBM
20:00	00:00	4	Trips	POOH to surface.
00:00	01:00	1	Packoff/Wear Bushing	Pull wear bushing
01:00	05:00	4	Nipple Up B.O.P.	Lay out mouse hole, remove turn buckles, unhook dresser sleeve on riser, nipple down BOP
05:00	06:00	1	Rig Up & Tear Down	Prep rig to skid. Release Patterson 254 to MIP 5H 9/7/15 @ 06: 00 hours
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
Drilling	48
Rig Up & Tear Down	1
Reaming	5
Coring	17.5
Cond Mud & Circ	14
Trips	66.5
Lubricate Rig	1
Repair Rig	8.5
Wire Line Logs	53
Nipple Up B.O.P.	4
Dir Downlinking	2.5
Repair Rig Other	3.5
Cement	11
Weather	0.5
Safety	2.25
Packoff/Wear Bushing	1
PU/LD BHA	0.75
Total Hours	240



Total Cost

Previous Day's Cumulative:	$791,270	Daily Total:	$190,798
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$5,336
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$982,068
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$987,404



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/7/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/22/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	78
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	25

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

RIH with TLC logging tools

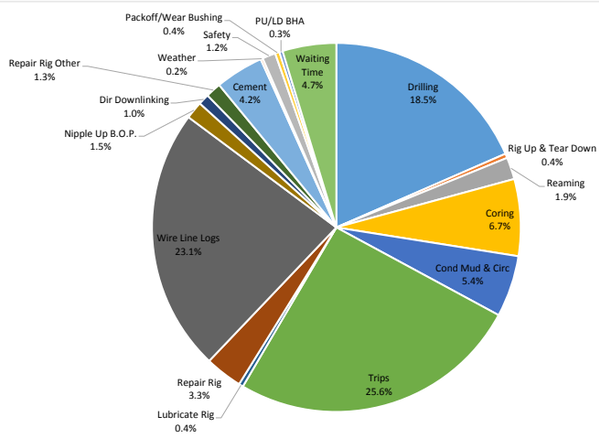
24 Hour Summary

Wait on SLB logging equipment to arrive on location. RIH with gamma and caliper tool down to 7750'. MU and test TLC tool for first logging run. RIH with tools picking up 51 joints of DP.

Log of Operations

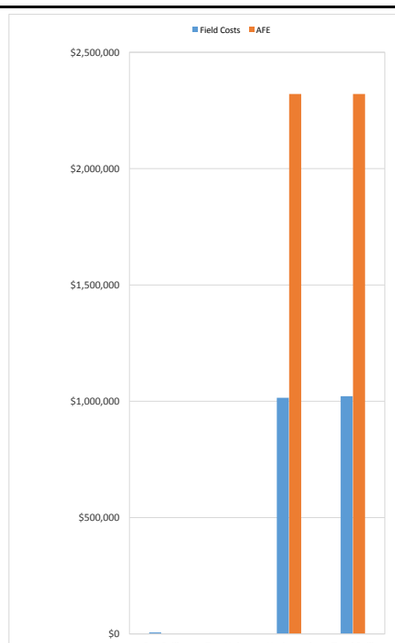
From	To	Hours	Time Code	Activity
10:00	19:00	9	Waiting Time	Waiting on Schlumberger wireline loggers
19:00	19:30	0.5	Safety	Spot SLB wireline equipment. Hold safety meeting with all parties involved prior to RIH with caliper and gamma log.
19:30	20:00	0.5	Wire Line Logs	PU tools for Logging run#1
20:00	22:45	2.75	Wire Line Logs	Logging Run #1-Open Hole Log Caliper and Gamma Ray. RIH to 7750 approximately 72 degrees
22:45	23:45	1	Wire Line Logs	LD logging tools from run #1
23:45	02:00	2.25	Waiting Time	SLB build tools on ground, assemble rope socket for TLC run, test tools, Waiting on hot shot with remaining TLC tools. AOL 1:15
02:00	02:15	0.25	Safety	Safety Meeting with SLB prior to MU TLC BHA
02:15	03:15	1	Wire Line Logs	MU BHA for TLC logging run
03:15	04:15	1	Waiting Time	Test DHWC tool on ground, assemble tool prior lifting to floor.
04:15	05:00	0.75	Wire Line Logs	Finish MU Logging BHA
05:00	06:00	1	Wire Line Logs	Test entire tool string with WL Truck. MU XO to DP
Total:		20	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
Drilling	48
Rig Up & Tear Down	1
Reaming	5
Coring	17.5
Cond Mud & Circ	14
Trips	66.5
Lubricate Rig	1
Repair Rig	8.5
Wire Line Logs	60
Nipple Up B.O.P.	4
Dir Downlinking	2.5
Repair Rig Other	3.5
Cement	11
Weather	0.5
Safety	3
Packoff/Wear Bushing	1
PU/LD BHA	0.75
Waiting Time	12.25
Total Hours	260



Total Cost

Previous Day's Cumulative:	$980,734	Daily Total:	$34,421
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$6,670
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$1,015,155
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$1,021,825



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/23/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/23/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	79
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	26

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Logging Rung #2 with TLC logging tools

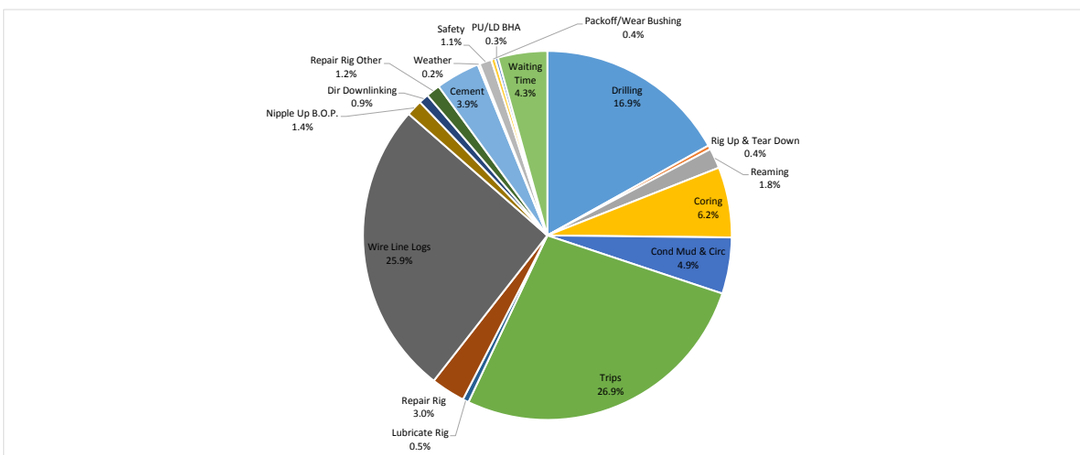
24 Hour Summary

Finish testing logging tools, PU 51 joints of DP and TIH. Complete logging run #1 with TLC tools and start logging run #2.

Log of Operations

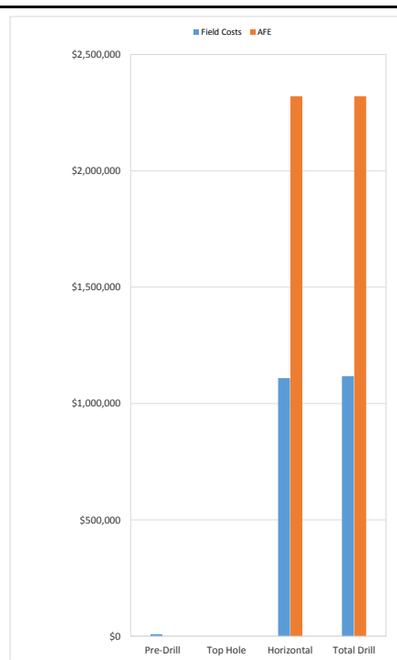
From	To	Hours	Time Code	Activity
06:00	07:30	1.5	Wire Line Logs	Re test DHWC logging tools.
07:30	08:00	0.5	Lubricate Rig	Service rig & repair leak on top drive.
08:00	17:00	9	Trips	TIH with logging tools to 6,087' (Run @ 4 minutes per stand & pick up 51 singles break circulation every 15 stands)
17:00	19:00	2	Wire Line Logs	Make up wire line side door sub, Set wire line bushings pump down tool
19:00	19:45	0.75	Wire Line Logs	RU cable clamp, pull test to 1000 lbs, Install snatch block on wireline
19:45	21:45	2	Wire Line Logs	TIH F/6092 T/7807' Logging @ 30 ft/min
21:45	23:45	2	Wire Line Logs	TOOH F/7807 T/6063 Logging out @ 20 ft/min
23:45	01:30	1.75	Wire Line Logs	POOH w/WL Remove side entry sub
01:30	02:30	1	Trips	TIH F/6063 T/7708
02:30	04:15	1.75	Wire Line Logs	RU side entry sub, RIH with WL, pump down with rigs pumps, test tool, install cable clap, pull test
04:15	06:00	1.75	Wire Line Logs	TIH F/7708 T/ Logging Run #2 with TLC tools
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
Drilling	48
Rig Up & Tear Down	1
Reaming	5
Coring	17.5
Cond Mud & Circ	14
Trips	76.5
Lubricate Rig	1.5
Repair Rig	8.5
Wire Line Logs	73.5
Nipple Up B.O.P.	4
Dir Downlinking	2.5
Repair Rig Other	3.5
Cement	11
Weather	0.5
Safety	3
Packoff/Wear Bushing	1
PU/LD BHA	0.75
Waiting Time	12.25
Total Hours	284



Total Cost

Previous Day's Cumulative:	$1,013,821	Daily Total:	$95,593
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$8,004
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$1,109,414
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$1,117,418



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/24/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/24/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	80
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	27

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

POOH from Logging Run #4

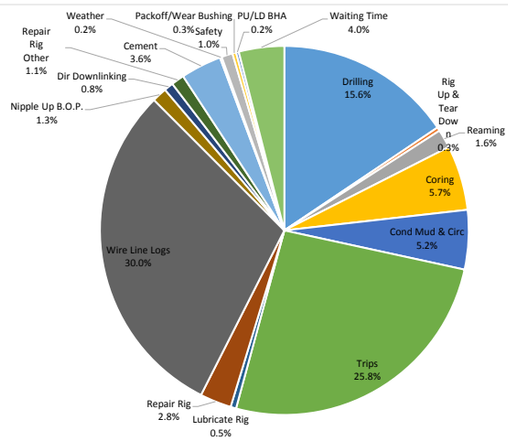
24 Hour Summary

Finish TLC Logging run #2, #3, start logging run #4.

Log of Operations

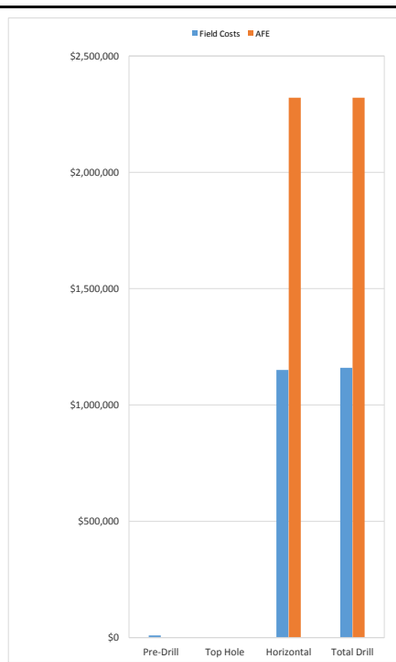
From	To	Hours	Time Code	Activity
06:00	09:00	3	Wire Line Logs	POOH logging 9403' to 7665'
09:00	10:30	1.5	Wire Line Logs	Pull wire line & lay out side entry sub
10:30	12:00	1.5	Trips	TIH 7665' to 9210'
12:00	14:00	2	Cond Mud & Circ	Circulate bottoms up @ 60 SPM
14:00	16:30	2.5	Wire Line Logs	Run wire line in, Make up side door entry sub & pump tool down.
16:30	18:45	2.25	Wire Line Logs	TIH logging Run #3 9210' to 10,914'
18:45	20:45	2	Wire Line Logs	TOOH logging Run #3 F/10914 T/9190'
20:45	22:30	1.75	Wire Line Logs	Remove Side Entry Sub, Power Down Tool. POOH w/WL
22:30	00:00	1.5	Trips	TIH F/9190 T/10822'
00:00	01:45	1.75	Wire Line Logs	Install Side Entry Sub, Pump Down WL into DHWC, Install Cable clamp
01:45	03:15	1.5	Wire Line Logs	TIH Logging Run #4 F/10822' T/12350'
03:15	05:15	2	Wire Line Logs	TOOH Logging Run #4 F/10822' T/12350'
05:15	06:00	0.75	Wire Line Logs	POOH w/WL Remove side entry sub
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
Drilling	48
Rig Up & Tear Down	1
Reaming	5
Coring	17.5
Cond Mud & Circ	16
Trips	79.5
Lubricate Rig	1.5
Repair Rig	8.5
Wire Line Logs	92.5
Nipple Up B.O.P.	4
Dir Downlinking	2.5
Repair Rig Other	3.5
Cement	11
Weather	0.5
Safety	3
Packoff/Wear Bushing	1
PU/LD BHA	0.75
Waiting Time	12.25
Total Hours	308



Total Cost

Previous Day's Cumulative:	$1,108,080	Daily Total:	$42,183
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$9,338
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$1,150,263
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$1,159,601



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/25/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/25/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	81
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	28

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

RIH with wiper run BHA

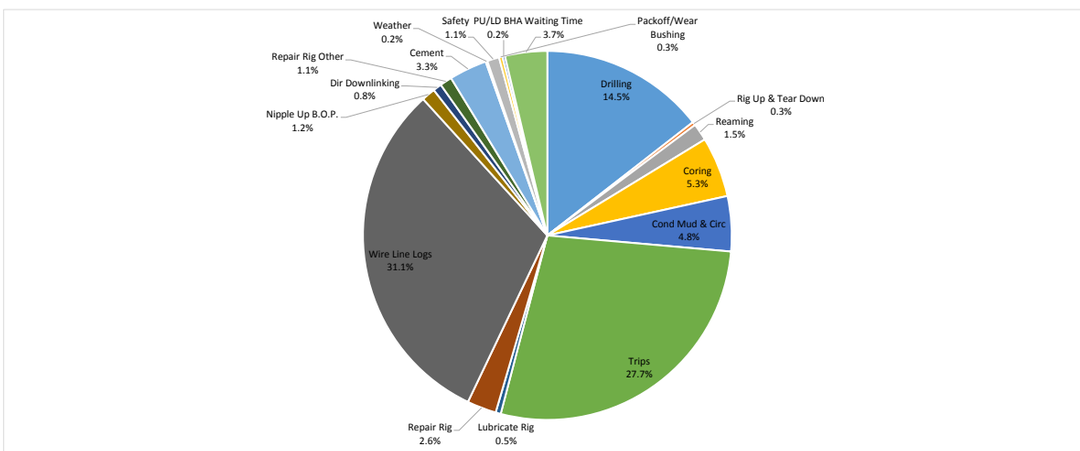
24 Hour Summary

Finish TLC logging run #5, TOOH LD logging tools, TIH with wiper run BHA to 8.800'

Log of Operations

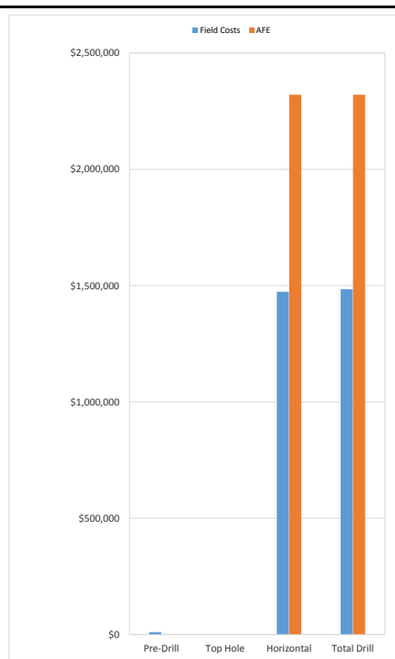
From	To	Hours	Time Code	Activity
06:00	06:30	0.5	Safety	Safety meeting & review wire line procedure
07:00	08:30	1.5	Trips	TIH 10,700' to 12,218'
08:30	10:00	1.5	Wire Line Logs	Hook up side entry sub , wire line & pump logging tool down
10:00	12:00	2	Wire Line Logs	TIH logging run # 5 12,218 to 13,860' (Final run)
12:00	15:00	3	Wire Line Logs	Schlumberger run tool test & TOH logging 13,860' to 12,218,
15:00	17:00	2	Wire Line Logs	Pull wire line & remove side entry sub, Rig down logging tools & crane.
17:00	23:00	6	Trips	POOH to lay out logging tools
23:00	01:15	2.25	Wire Line Logs	LD Logging BHA
01:15	06:00	4.75	Trips	TIH with wiper run BHA surface to 8,800'
Total:		23.5	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
Drilling	48
Rig Up & Tear Down	1
Reaming	5
Coring	17.5
Cond Mud & Circ	16
Trips	91.75
Lubricate Rig	1.5
Repair Rig	8.5
Wire Line Logs	103.25
Nipple Up B.O.P.	4
Dir Downlinking	2.5
Repair Rig Other	3.5
Cement	11
Weather	0.5
Safety	3.5
Packoff/Wear Bushing	1
PU/LD BHA	0.75
Waiting Time	12.25
Total Hours	331.5



Total Cost

Previous Day's Cumulative:	$1,148,929	Daily Total:	$324,442
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$10,672
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$1,473,371
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$1,484,043



Supervisor Contact Information

NNE Representative:	Brad Chadwick	Email:	cm2@nne-llc.com
Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/26/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/26/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	82
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	29

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Finish Slip and Cut, RU Casing Crew

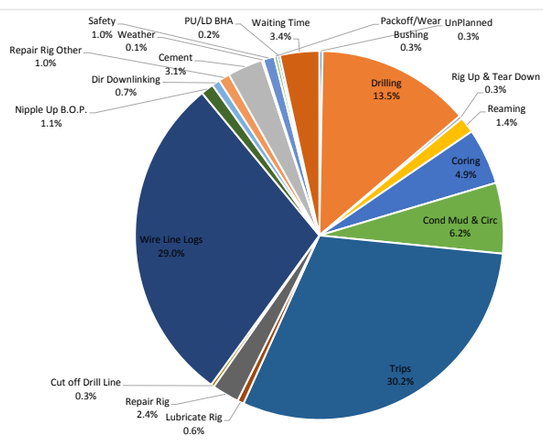
24 Hour Summary

TIH for wiper run. Circulate and condition mud prior to TOOH. TOOH F/13847 LD DP. Slip and cut 120' of drill line. RU casing crew and fiber optic crew.

Log of Operations

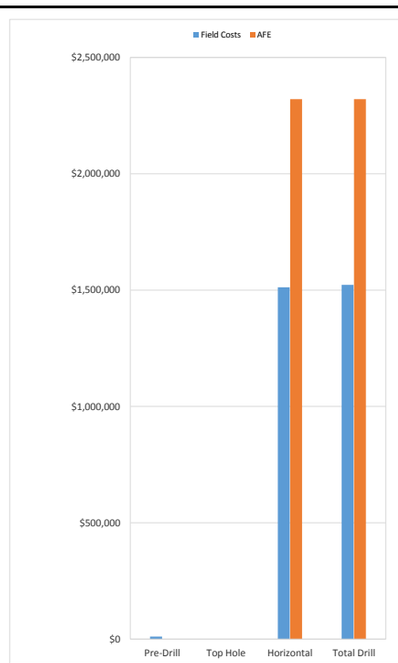
From	To	Hours	Time Code	Activity
06:00	09:30	3.5	Trips	TIH 8,000' to 13,874' TD
09:30	15:30	6	Cond Mud & Circ	Circulate & condition mud
15:30	21:00	5.5	Trips	Pump slug & POOH laying down drill pipe
21:00	21:30	0.5	Lubricate Rig	Inspect topdrive and crown
21:30	01:45	4.25	Trips	TOOH LD DP F/7538 T/1786
01:45	02:15	0.5	UnPlanned	Pull Rotating Head / Center Rig over well for upcoming csg job
02:15	04:30	2.25	Trips	TOOH LD DP F/1786 to surface. Pull wear bushing
04:30	05:00	0.5	UnPlanned	Clear Floor, spot casing crew
05:00	06:00	1	Cut off Drill Line	Cut & slip 120' drill line.
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
UnPlanned	1
Drilling	48
Rig Up & Tear Down	1
Reaming	5
Coring	17.5
Cond Mud & Circ	22
Trips	107.25
Lubricate Rig	2
Repair Rig	8.5
Cut off Drill Line	1
Wire Line Logs	103.25
Nipple Up B.O.P.	4
Dir Downlinking	2.5
Repair Rig Other	3.5
Cement	11
Weather	0.5
Safety	3.5
Packoff/Wear Bushing	1
PU/LD BHA	0.75
Waiting Time	12.25
Total Hours	355.5



Total Cost

Previous Day's Cumulative:	$1,473,371	Daily Total:	$38,529
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$10,672
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$1,511,900
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$1,522,572



Supervisor Contact Information

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Phone Number:	304-382-1825	Fax Number:	cm2@nne-llc.com
Rig Phone Number:	903-692-1888	Report Date:	9/27/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/27/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:					

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	83
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	30

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803

Present Operation at Report Time

Running 5 1/2" Production CSG with Fiber Optic Cable

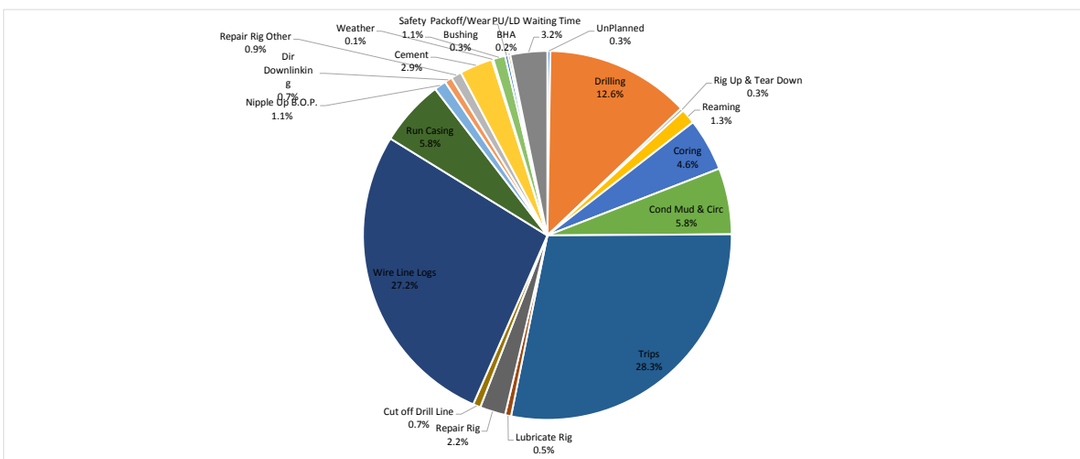
24 Hour Summary

RU Express CSG Crew & SLB fiber optic equipment. MU shoe track and start running casing. Run Casing testing fiber optic cable every 1000'.

Log of Operations

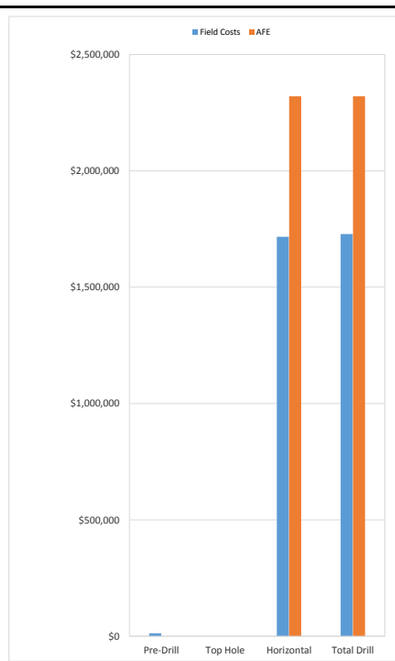
From	To	Hours	Time Code	Activity
06:00	07:30	1.5	Cut off Drill Line	TQ drill line to horse head & caliber block.
07:30	10:00	2.5	Run Casing	Safety meeting & Rig up Express casing crew. Load all Fiber line clamps & Blast shields to rig floor.
10:00	12:00	2	Run Casing	Set fiber line spools , Monitor shack rig up same , Spot crane. Schlumberger test all monitor equipment.
12:00	12:30	0.5	Safety	Pre-Job Safety meeting
12:30	13:00	0.5	Run Casing	Install trip nipple
13:00	18:15	5.25	Run Casing	Run Casing F/0 T1028'
18:15	18:30	0.25	Run Casing	Fill Pipe/Test Line Tension
18:30	22:00	3.5	Run Casing	Run Casing F/1028' T/2028'
22:00	22:15	0.25	Run Casing	Test Line Tension @ 2000'
22:15	01:15	3	Run Casing	Run CSG F/2028 T/2995'
01:15	01:45	0.5	Run Casing	Fill Pipe/Test line Tension @ 3000'
01:45	04:45	3	Run Casing	Run Casing F/2994 T/3994'
04:45	05:00	0.25	Run Casing	Fill Pipe/Test Cable @ 3994'
05:00	06:00	1	Run Casing	Run CSG F/3994' T/4303'
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
UnPlanned	1
Drilling	48
Rig Up & Tear Down	1
Reaming	5
Coring	17.5
Cond Mud & Circ	22
Trips	107.25
Lubricate Rig	2
Repair Rig	8.5
Cut off Drill Line	2.5
Wire Line Logs	103.25
Run Casing	22
Nipple Up B.O.P.	4
Dir Downlinking	2.5
Repair Rig Other	3.5
Cement	11
Weather	0.5
Safety	4
Packoff/Wear Bushing	1
PU/LD BHA	0.75
Waiting Time	12.25
Total Hours	379.5



Total Cost

Previous Day's Cumulative:	$1,510,566	Daily Total:	$205,883
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$12,006
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$1,716,449
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$1,728,455



Supervisor Contact Information

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Rig Phone Number:	903-692-1888	Report Date:	9/28/2015

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Executive Drilling Report - MIP 3H-Pilot

Date:	9/28/2015

Location Information

State	County	Township/City	Elevation	Latitude	Longitude
WV	Monongalia	Morgantown	1072	39.608876	79.979920
Weather:	Hot & humid				

Well Information

Lease	Well No.	Field	Drilling Contractor	Rig	KB
MIP	3H-Pilot	Morgantown	Patterson	254	24.5

API/Permit Number	Target TD	TVD (ft)	MD (ft)	24-Hr Footage (ft)
47-061-01707	7,840	7,839	7,840	

Current Section of Well	Vertical Spud Date:	7/7/2015	Days From Vertical:	84
Pilot	Horizontal Spud Date:	8/29/2015	Days From Horizontal:	31

Casing/Liners

Casing	Length (ft)
Conductor	42
Surface	508
Intermediate	1,803
Production	13,861

Present Operation at Report Time

Splicing Fiber Optic cable (Splice 80% complete)

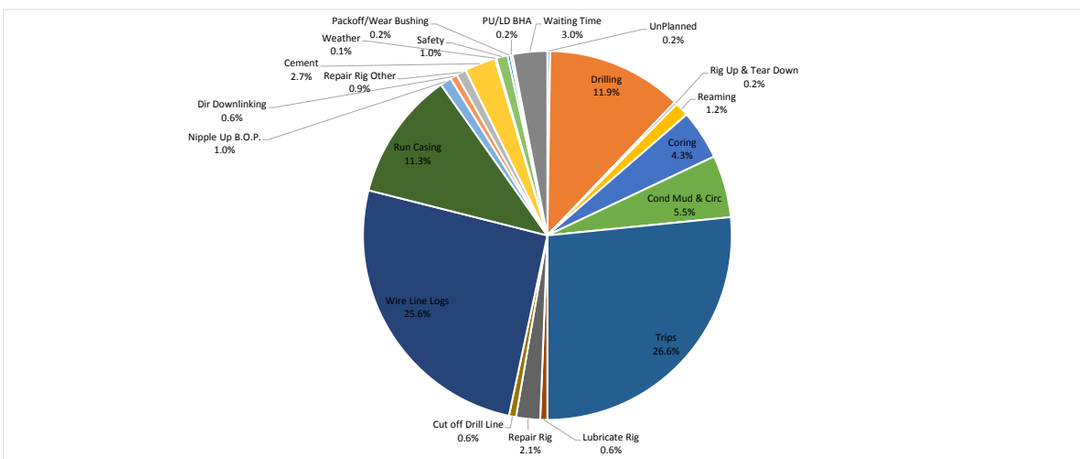
24 Hour Summary

Run CSG with Fiber Optic to 8479' Testing cable tension after every 1000'. Perform splice to join spools of fiber together before continuing csg run.

Log of Operations

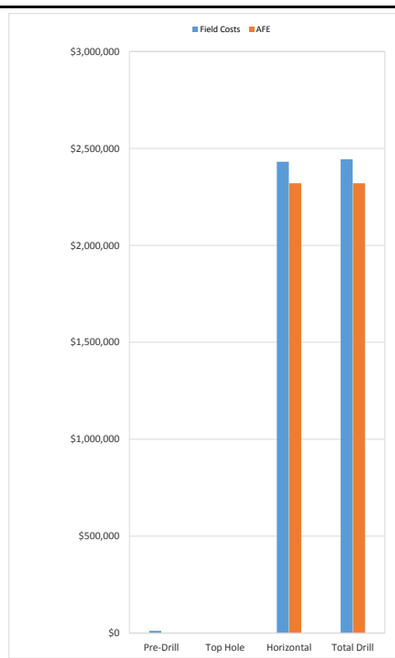
From	To	Hours	Time Code	Activity
06:00	12:30	6.5	Run Casing	Run 5.5" casing with fiber line 4,303' to 6,000' (Test fiber line & fill pipe every 1,000')
12:30	13:00	0.5	Lubricate Rig	Service rig
13:00	18:00	5	Run Casing	Run 5.5" casing with fiber line 6,000' to8000 (Test fiber line & fill pipe every 1,000')
18:00	18:15	0.25	Run Casing	Test Fiber optic cable @ 8000'
18:15	19:30	1.25	Run Casing	Run CSG F/8000' T/8479'
19:30	06:00	10.5	Run Casing	Clear Floor and RU equipment to Splice Fiber Optic Cable together Splice 80% complete
Total:		24	TD at 6:00 AM:	7,840 feet

Activity Code	Total Hrs
UnPlanned	1
Drilling	48
Rig Up & Tear Down	1
Reaming	5
Coring	17.5
Cond Mud & Circ	22
Trips	107.25
Lubricate Rig	2.5
Repair Rig	8.5
Cut off Drill Line	2.5
Wire Line Logs	103.25
Run Casing	45.5
Nipple Up B.O.P.	4
Dir Downlinking	2.5
Repair Rig Other	3.5
Cement	11
Weather	0.5
Safety	4
Packoff/Wear Bushing	1
PU/LD BHA	0.75
Waiting Time	12.25
Total Hours	403.5



Total Cost

Previous Day's Cumulative:	$1,716,449	Daily Total:	$715,230
Pre-Drill AFE Amt:		Cumulative Pre-Drill Cost:	$12,006
Top Hole Drilling AFE Amt:		Cumulative Top Hole Cost:	
Horizontal Drilling AFE Amt:	$2,320,400	Cumulative Horizontal Cost:	$2,431,679
Cumulative Well AFE Amt:	$2,320,400	Cumulative Well Cost:	$2,443,685



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Rig Phone Number:	903-692-1888	Report Date:	9/29/2015

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