# Executive Drilling Report - MIP 3H

| Date: | 7/6/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Hot Overcast Rain | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 320 | 320 | 320 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | |
|---|---|---|---|---|
| Rig Up | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Conductor | 42 |

## Present Operation at Report Time

Drilling 17 1/2 hole rig @ 320' deep

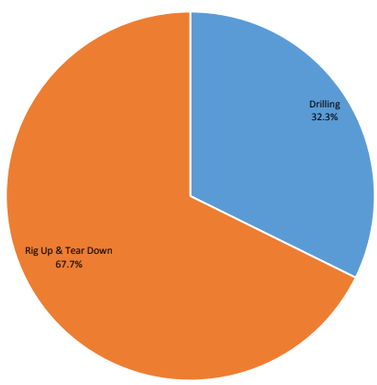
## 24 Hour Summary

Tear down RU and set up on 3H run flow line and start to drill. Started to drill @ 10:15 PM

## Log of Operations

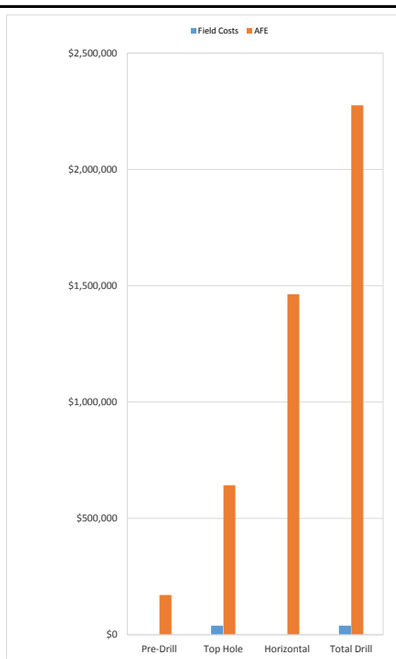
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 12:00 | 6 | Rig Up & Tear Down | Rigging up on 3H. |
| 12:00 | 18:00 | 6 | Rig Up & Tear Down | RU on 3H. Welder to work on cement return collars. |
| 18:00 | 22:15 | 4.25 | Rig Up & Tear Down | Finish rigging up and hooking up flow line get ready to pick up BHA and start in hole. |
| 22:15 | 03:00 | 4.75 | Drilling | Drilling 17 1/2 hole. |
| 03:00 | 06:00 | 3 | Drilling | Rig drilling 17 1/2 hole @ 6:00 AM. Rig at 320' deep. SPP@436 PSI/flow rate@3220cfm/torque@1372ft-lbs/WOB @ 5.9klbs/rotary@20RPM/ ROP @83.2ft-hr |
| Total: | | 24 | TD at 6:00 AM: | 320 feet |

| Activity Code | Total Hrs |
|---|---|
| Drilling | 7.75 |
| Rig Up & Tear Down | 16.25 |
| Total Hours | 24 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$38,864 | Daily Total: | $38,864 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $38,864 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $38,864 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jim Cover | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm1@nne-llc.com |
| Rig Phone Number: | 570-567-4471 | Report Date: | 7/7/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/7/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Hot & humid | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 542 | 540 | 220 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 1 |
|---|---|---|---|---|
| Rig Up | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Conductor | 42 |
| Surface | 508 |

## Present Operation at Report Time

Working on cellar to get head set

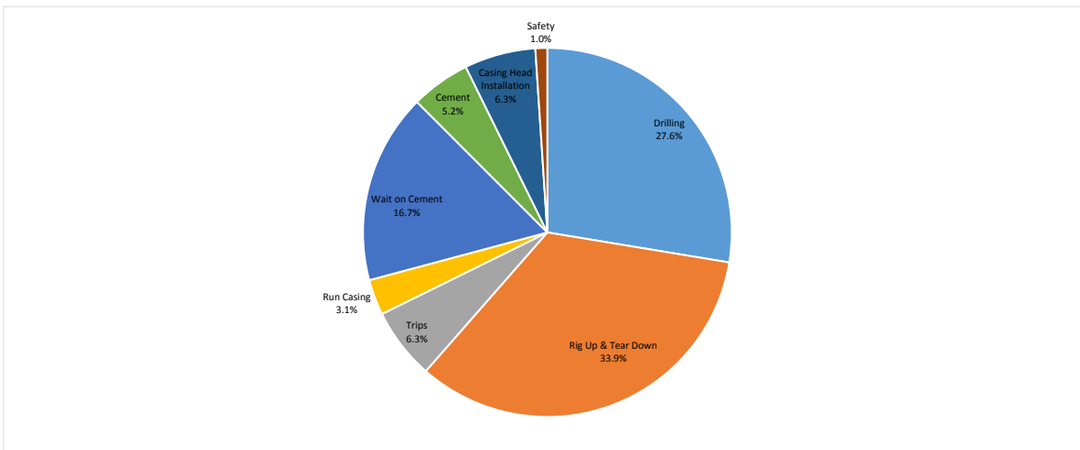
## 24 Hour Summary

Drill to 540' deep. Clean hole, trip out of hole, run casing, cement casing. Wait 8 hrs on cement, work in cellar, removing cement and cutting casing.

## Log of Operations

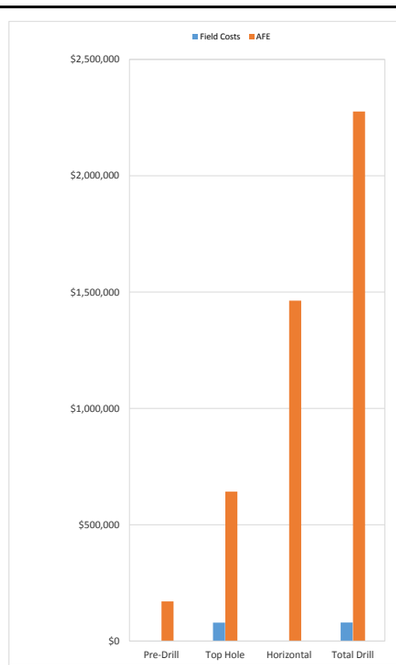
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 10:15 | 4.25 | Drilling | Drilling rig TD 17 1/2 hole @10:15AM @ 540' deep |
| 10:15 | 11:30 | 1.25 | Drilling | Clean hole and get ready to trip collars out of hole. |
| 11:30 | 14:30 | 3 | Trips | Trip drill pipe and BHA out of hole to get ready to run 13 3/8 casing. |
| 14:30 | 16:00 | 1.5 | Run Casing | Run 507.86' of 13 3/8 casing. |
| 16:00 | 16:45 | 0.75 | Cement | Schlumberger on location prepping for cement job. |
| 16:45 | 17:15 | 0.5 | Safety | Held pre-cement safety meeting with all personnel on location. |
| 17:15 | 19:00 | 1.75 | Cement | Cement 13 3/8 casing with 25 bbl return to surface. Cement job went well. Plug down @ 6:50 PM and held. Clean up and Schlumberger leave location. |
| 19:00 | 03:00 | 8 | Wait on Cement | Wait on cement 8 hours. |
| 03:00 | 06:00 | 3 | Casing Head Installatio | Work on well head and getting cement out of cellar. |
| Total: | | 24 | TD at 6:00 AM: | 540 feet |

| Activity Code | Total Hrs |
|---|---|
| Drilling | 13.25 |
| Rig Up & Tear Down | 16.25 |
| Trips | 3 |
| Run Casing | 1.5 |
| Wait on Cement | 8 |
| Cement | 2.5 |
| Casing Head Installation | 3 |
| Safety | 0.5 |
| Total Hours | 48 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$40,745 | Daily Total: | $40,745 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $768 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $78,841 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $79,609 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jim Cover | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm1@nne-llc.com |
| Rig Phone Number: | 570-567-4471 | Report Date: | 7/8/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/8/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 542 | 540 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 2 |
|---|---|---|---|---|
| Rig Up | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Conductor | 42 |

## Present Operation at Report Time

Tripping back in hole with 8 3/4 hammer.

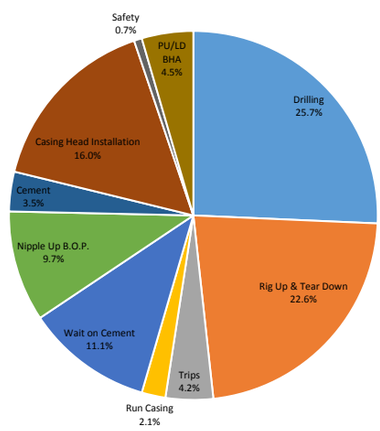
## 24 Hour Summary

Jack hammer cement out of cellar, get casing cut. Set & weld wellhead. Set BOP and test, make up BHA.Trip in hole with tri-cone. Drill out cement and shoe. Trip out of hole. Put on hammer and trip back in hole to start drilling 8 3/4 hole.

## Log of Operations

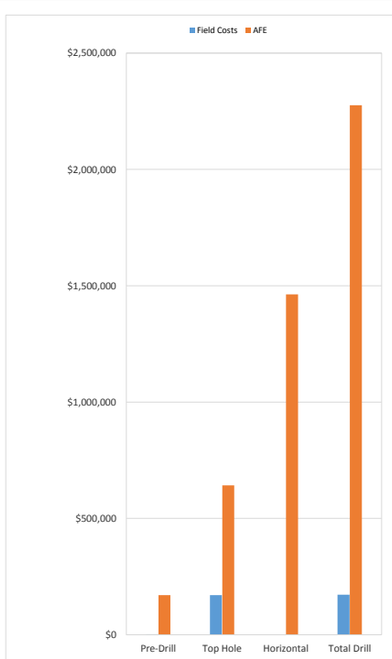
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 11:30 | 5.5 | Casing Head Installatio | Running jackhammer to get 14" of concrete out of cellar to set different style well head. |
| 11:30 | 14:30 | 3 | Casing Head Installatio | Set and weld casing head. |
| 14:30 | 21:30 | 7 | Nipple Up B.O.P. | Nipple up BOP and wait on new valve. BOP test and stack. |
| 21:30 | 00:45 | 3.25 | PU/LD BHA | Set wear bushing, put BHA together, trip in hole. |
| 00:45 | 03:00 | 2.25 | Drilling | Drill out shoe and plug trip out of hole and put on hammer. |
| 03:00 | 06:00 | 3 | Drilling | Trip back in hole with hammer to start drilling 8 3/4 hole. |
| Total: | | 24 | TD at 6:00 AM: | 540 feet |

| Activity Code | Total Hrs |
|---|---|
| Drilling | 18.5 |
| Rig Up & Tear Down | 16.25 |
| Trips | 3 |
| Run Casing | 1.5 |
| Wait on Cement | 8 |
| Nipple Up B.O.P. | 7 |
| Cement | 2.5 |
| Casing Head Installation | 11.5 |
| Safety | 0.5 |
| PU/LD BHA | 3.25 |
| Total Hours | 72 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$92,407 | Daily Total: | $92,407 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $1,536 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $170,480 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $172,016 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jim Cover | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm1@nne-llc.com |
| Rig Phone Number: | 570-567-4471 | Report Date: | 7/9/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/9/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Hot heavy rain | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 1,575 | 1,575 | 1035 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 3 |
|---|---|---|---|---|
| | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Conductor | 42 |
| Surface | 508 |
| | |
| | |
| | |

## Present Operation at Report Time

Drilling 12 3/4 hole. Rig @ 1,575' deep.

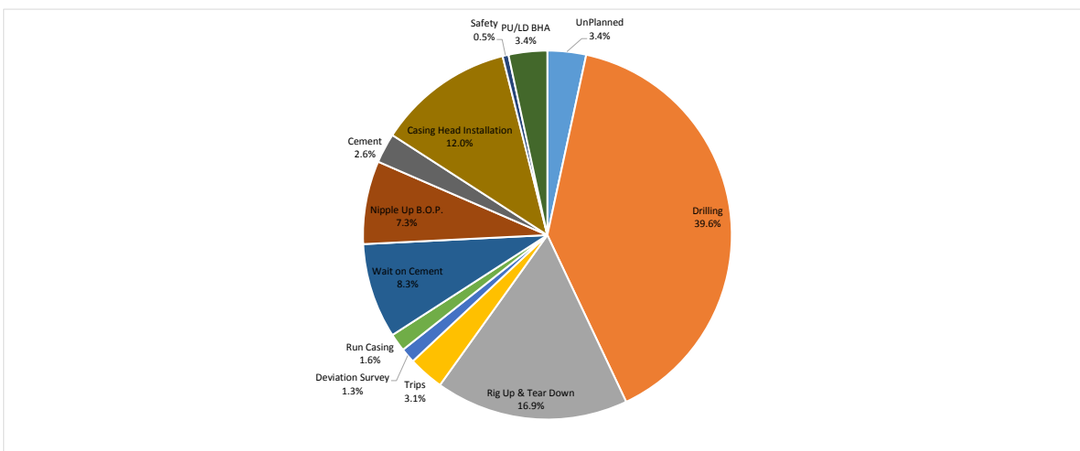
## 24 Hour Summary

Drill to 1,011' deep ran survey 0.8 dev/242 az . Drilled until 6:45 PM down for alarms going off in dog house. Wait on Tek-Solv to arrive on location and fix equipment. Continue drilling 12 3/4 hole.

## Log of Operations

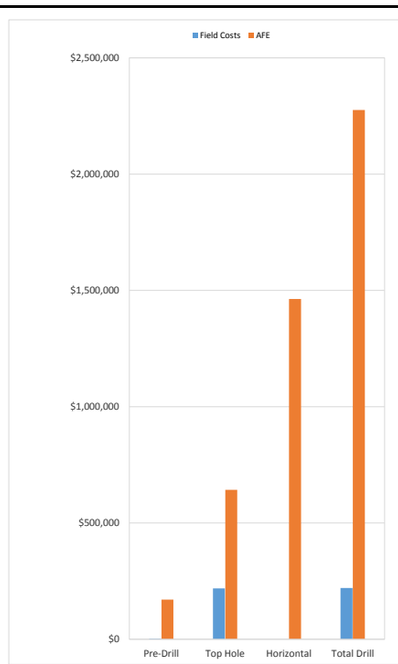
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 06:45 | 0.75 | Drilling | Drilling in to bottom with hammer. |
| 06:45 | 13:15 | 6.5 | Drilling | Drill to 1,011' deep. Get ready to run survey. |
| 13:15 | 13:30 | 0.25 | Deviation Survey | Ran survey= inc .0.8 deg-- 242az |
| 13:30 | 18:45 | 5.25 | Drilling | Drilling rig @ 1,264' deep. Alarms started to go off. Called Tek-Solv, if alarm continues for one minute , clear everyone away from rig. Cleared all people from rig and wait on Tek-Solv. |
| 18:45 | 21:15 | 2.5 | UnPlanned | Wait on Tek-Solv. Arrived on location at 9:10PM |
| 21:15 | 22:00 | 0.75 | UnPlanned | Tek -Solv repair equipment and replaced bad sensors. |
| 22:00 | 00:00 | 2 | Drilling | Rig drilling 12 1/4 hole @ 1,365' deep |
| 00:00 | 04:30 | 4.5 | Drilling | Drill to 1,540' deep. |
| 04:30 | 05:30 | 1 | Deviation Survey | Clean hole and run deviation survey. 1.3 inc // 244.1 az |
| 05:30 | 06:00 | 0.5 | Drilling | Drilling 12 1/4 hole. Rig at 1,575' deep @ 6AM |
| Total: | | 24 | TD at 6:00 AM: | 1,575 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.25 |
| Drilling | 38 |
| Rig Up & Tear Down | 16.25 |
| Trips | 3 |
| Deviation Survey | 1.25 |
| Run Casing | 1.5 |
| Wait on Cement | 8 |
| Nipple Up B.O.P. | 7 |
| Cement | 2.5 |
| Casing Head Installation | 11.5 |
| Safety | 0.5 |
| PU/LD BHA | 3.25 |
| Total Hours | 96 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$48,626 | Daily Total: | $48,626 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $2,304 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $218,338 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $220,642 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jim Cover | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm1@nne-llc.com |
| Rig Phone Number: | 570-567-4471 | Report Date: | 7/10/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/10/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Humid / Rain | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 1,827 | 1,827 | 252 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 4 |
|---|---|---|---|---|
| | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Finish setting well head.

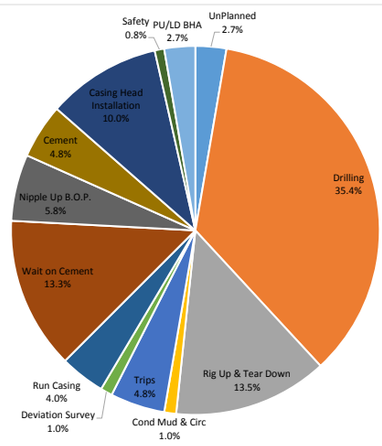
## 24 Hour Summary

TD 12 3/4 hole. Clean hole, trip out of hole , run casing , cement pipe. Wait 8 hrs on cement. Set well head.

## Log of Operations

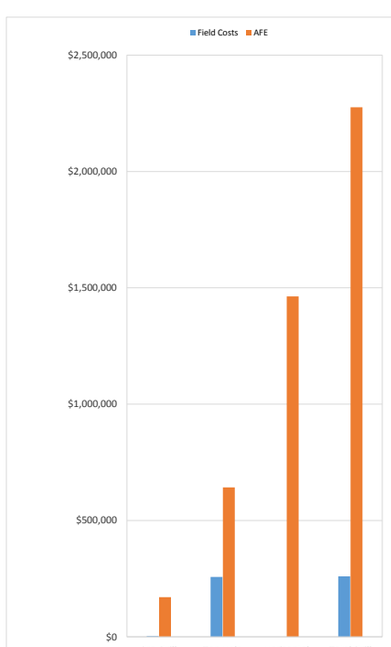
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 10:30 | 4.5 | Drilling | Drill to 1827' get ready to clean hole. |
| 10:30 | 11:45 | 1.25 | Cond Mud & Circ | Clean and wash hole |
| 11:45 | 14:30 | 2.75 | Trips | TOOH to run casing |
| 14:30 | 17:45 | 3.25 | Run Casing | Run 9 5/8 casing. |
| 17:45 | 18:15 | 0.5 | Safety | Safety meeting for cement job with all on location. |
| 18:15 | 21:30 | 3.25 | Cement | Start cement job pump job 40bbl return to surface plug down @9:30 PM |
| 21:30 | 05:30 | 8 | Wait on Cement | Wait on cement. |
| 05:30 | 06:00 | 0.5 | Casing Head Installatio | Cameron to set and install wellhead. |
| Total: | | 24 | TD at 6:00 AM: | 1,827 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.25 |
| Drilling | 42.5 |
| Rig Up & Tear Down | 16.25 |
| Cond Mud & Circ | 1.25 |
| Trips | 5.75 |
| Deviation Survey | 1.25 |
| Run Casing | 4.75 |
| Wait on Cement | 16 |
| Nipple Up B.O.P. | 7 |
| Cement | 5.75 |
| Casing Head Installation | 12 |
| Safety | 1 |
| PU/LD BHA | 3.25 |
| Total Hours | 120 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$38,963 | Daily Total: | $38,963 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $2,304 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $257,300 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $259,604 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jim Cover | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm1@nne-llc.com |
| Rig Phone Number: | 570-567-4471 | Report Date: | 7/11/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/11/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Hot and Sunny | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 1,827 | 1,827 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 5 |
|---|---|---|---|---|
| | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Trip in hole with second tri-cone to drill float shoe again.

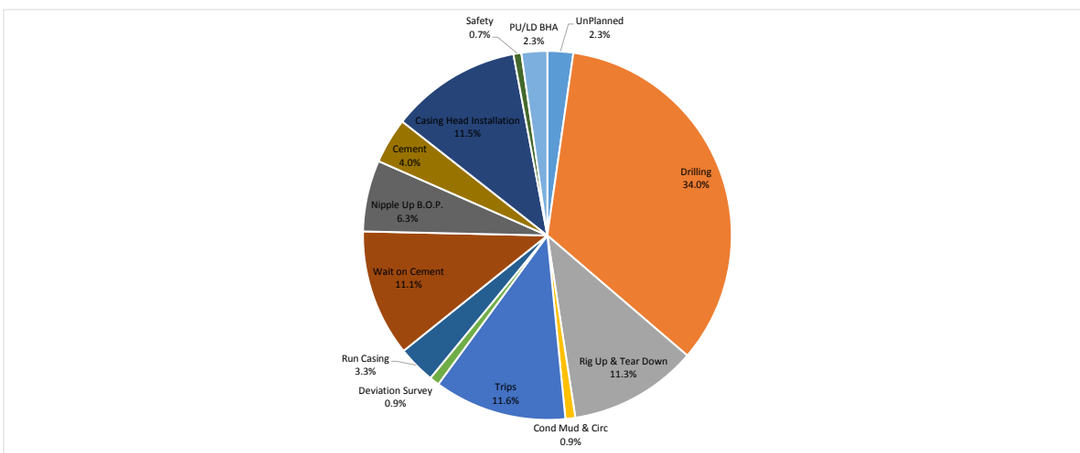
## 24 Hour Summary

Cameron set well head and test. Blue Dot test and torque BOP. Pick up tools and trip in hole to drill out plug and shoe. Trip out of hole pick up hammer and go back in hole to start 8 3/4 section of hole.

## Log of Operations

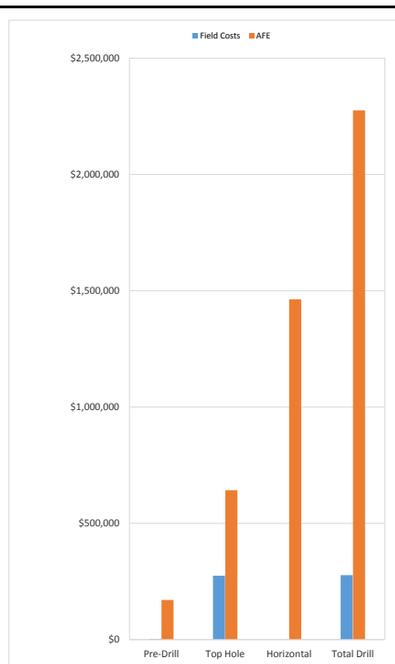
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 10:30 | 4.5 | Casing Head Installation | Cameron installing wellhead. |
| 10:30 | 12:30 | 2 | Nipple Up B.O.P. | Blue Dot complete BOP test and torque stack. |
| 12:30 | 15:15 | 2.75 | Trips | Trip in hole to drill out cement plug and shoe. |
| 15:15 | 17:15 | 2 | Drilling | Drill out shoe and plug clean hole to trip out of hole. |
| 17:15 | 21:15 | 4 | Trips | Trip out of hole to put hammer on. |
| 21:15 | 01:30 | 4.25 | Trips | Put hammer on, trip back in hole. Hammer bit would not go through float collar. Trip back out of hole to put tricone on again. |
| 01:30 | 06:00 | 4.5 | Drilling | Trip in with other tri-cone and drill float collar |
| Total: | | 24 | TD at 6:00 AM: | 1,827 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.25 |
| Drilling | 49 |
| Rig Up & Tear Down | 16.25 |
| Cond Mud & Circ | 1.25 |
| Trips | 16.75 |
| Deviation Survey | 1.25 |
| Run Casing | 4.75 |
| Wait on Cement | 16 |
| Nipple Up B.O.P. | 9 |
| Cement | 5.75 |
| Casing Head Installation | 16.5 |
| Safety | 1 |
| PU/LD BHA | 3.25 |
| Total Hours | 144 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$17,289 | Daily Total: | $17,289 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $2,304 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $274,590 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $276,894 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jim Cover | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm1@nne-llc.com |
| Rig Phone Number: | 570-567-4471 | Report Date: | 7/12/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/12/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Hot / Sunny | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 3,934 | 3,935 | 2108 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 6 |
|---|---|---|---|---|
| 8.75 Vertical | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Drilling ahead in the 8 3/4 vertical section.

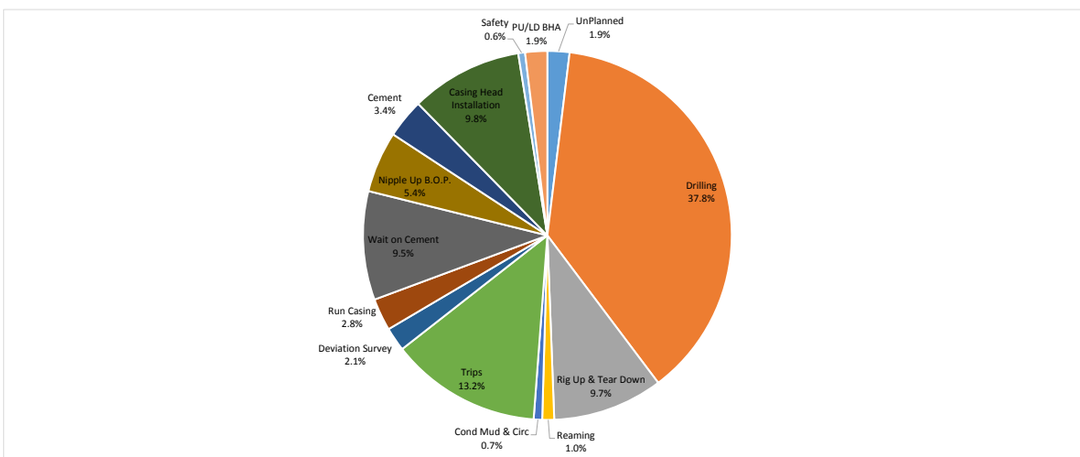
## 24 Hour Summary

Reamed the float with a tri-cone. Tripped out and picked up 8 3/4 hammer and tripped back in the hole. Drilled 8 3/4 hole taking surveys every 500'.

## Log of Operations

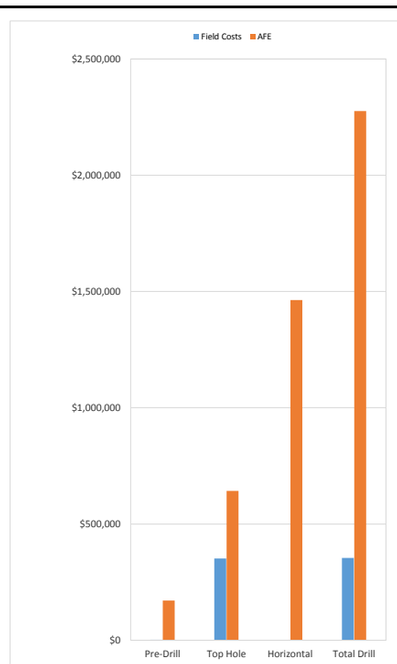
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 07:45 | 1.75 | Reaming | Drill without tri-cone bit through float collar and shoe. |
| 07:45 | 10:15 | 2.5 | Trips | Trip out of hole put hammer back on. |
| 10:15 | 13:15 | 3 | Trips | Hammer on, trip back in hole. |
| 13:15 | 14:30 | 1.25 | Drilling | Go back in hole to float collar drill/ream from there to 1,827'. Proceed to drill to 2,022' deep |
| 14:30 | 15:00 | 0.5 | Deviation Survey | Clean hole and run survey. 0.5 degrees inc//217.7 Azim |
| 15:00 | 18:00 | 3 | Drilling | Drilling 8 3/4 hole. SPP@343PSI/air flow@2700cfm/flow pressure@423psig/torque@1329ft-lbs/WOB @3.1klbs/rotary @43RPM/ROP@108.9ft-hr. |
| 18:00 | 18:30 | 0.5 | Deviation Survey | Clean hole and run survey. 1 degrees Inc//269. Azim |
| 18:30 | 22:00 | 3.5 | Drilling | Drilling 8 3/4 hole. SPP@533psi/air flow@2818cfm/flow pressure@423psig/torque@1329ft-lbs/WOB @4.4klbs/rotary @43RPM/ROP@142.8ft-hr. |
| 22:00 | 22:45 | 0.75 | Deviation Survey | Clean hole and run survey. 1.4 degrees Incl. 289.4. Azim |
| 22:45 | 02:30 | 3.75 | Drilling | Drilling 8 3/4 hole. SPP@533psi/air flow@2780cfm/flow pressure@535psig/torque@1315ft-lbs/WOB @4.4klbs/rotary @37RPM/ROP@133.3ft-hr. |
| 02:30 | 03:00 | 0.5 | Deviation Survey | Clean hole and run survey. 1.5 degrees Incl. 299.2. Azim |
| 03:00 | 06:00 | 3 | Drilling | Drilling 8 3/4 hole-SPP@540psi/air flow@2790cfm/flow pressure@423psig/torque@1300ft-lbs/WOB @4.4klbs/rotary @37RPM/ROP@133.3ft-hr. |
| Total: | | 24 | TD at 6:00 AM: | 3,935 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.25 |
| Drilling | 63.5 |
| Rig Up & Tear Down | 16.25 |
| Reaming | 1.75 |
| Cond Mud & Circ | 1.25 |
| Trips | 22.25 |
| Deviation Survey | 3.5 |
| Run Casing | 4.75 |
| Wait on Cement | 16 |
| Nipple Up B.O.P. | 9 |
| Cement | 5.75 |
| Casing Head Installation | 16.5 |
| Safety | 1 |
| PU/LD BHA | 3.25 |
| Total Hours | 168 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$76,970 | Daily Total: | $76,970 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $2,304 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $351,560 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $353,864 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm3@nne-llc.com |
| Rig Phone Number: | 724-705-5435 | Report Date: | 7/13/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/13/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Sunny | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,512 | 6,512 | 2577 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 7 |
|---|---|---|---|---|
| 8.75 Vertical | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Taking deviation survey at 6,500'.

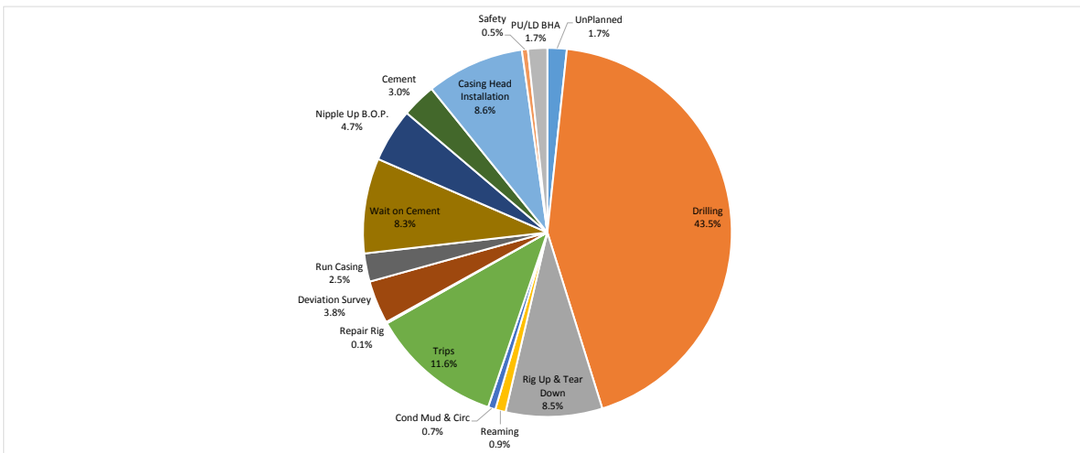
## 24 Hour Summary

Drilled ahead in the 8.75 vertical section and took deviation surveys every 500'.

## Log of Operations

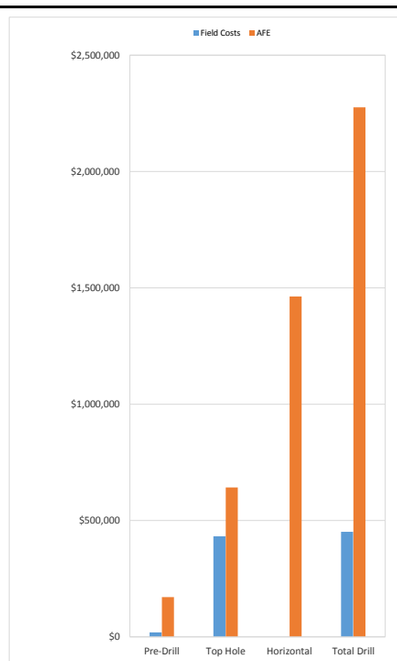
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 07:30 | 1.5 | Drilling | Drilling 8 3/4 hole. SPP@520psi/air flow@2820cfm/torque@1485ft-lbs/WOB@3.7klbs/rotary @41RPM/ROP@230ft-hr. |
| 07:30 | 08:00 | 0.5 | Deviation Survey | Clean hole and run survey. 1.8 degrees Incl. 305.4 Azim |
| 08:00 | 11:45 | 3.75 | Drilling | Drilling 8 3/4 hole. SPP@530psi/air flow@2775cfm/torque@1410ft-lbs/WOB @3.9klbs/rotary @39RPM/ROP@189.7ft-hr. |
| 11:45 | 12:30 | 0.75 | Deviation Survey | Clean hole and run survey. 2.0 degrees Incl. 303.9 Azim |
| 12:30 | 15:30 | 3 | Drilling | Drilling 8 3/4 hole. SPP@533psi/air flow@2739cfm/torque@1563ft-lbs/WOB @2.0klbs/rotary @41RPM/ROP@216.9ft-hr. |
| 15:30 | 16:15 | 0.75 | Deviation Survey | Clean hole and run survey. 2.5 degrees Incl. 307.7 Azim |
| 16:15 | 20:00 | 3.75 | Drilling | Drilling 8 3/4 hole. SPP@551psi/air flow@2756cfm/torque@1489ft-lbs/WOB @1.4klbs/rotary @43RPM/ROP@223.3ft-hr. |
| 20:00 | 20:45 | 0.75 | Deviation Survey | Clean hole and run survey= 1.5 degrees Incl. 325.6 Azim |
| 20:45 | 21:00 | 0.25 | Repair Rig | Service Rig. |
| 21:00 | 01:00 | 4 | Drilling | Drilling 8 3/4 hole. SPP@530psi/air flow@2787cfm/torque@1988ft-lbs/WOB @3.2klbs/rotary @43RPM/ROP@214.5ft-hr. |
| 01:00 | 02:00 | 1 | Deviation Survey | Clean hole and run survey=0.7 degrees Incl. 26.9 Azim |
| 02:00 | 06:00 | 4 | Drilling | Drilling 8 3/4 hole. SPP@531psi/air flow@2807cfm/torque@2115ft-lbs/WOB @1.9klbs/rotary @43RPM/ROP@171.9ft-hr. |
| Total: | | 24 | TD at 6:00 AM: | 6,512 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.25 |
| Drilling | 83.5 |
| Rig Up & Tear Down | 16.25 |
| Reaming | 1.75 |
| Cond Mud & Circ | 1.25 |
| Trips | 22.25 |
| Repair Rig | 0.25 |
| Deviation Survey | 7.25 |
| Run Casing | 4.75 |
| Wait on Cement | 16 |
| Nipple Up B.O.P. | 9 |
| Cement | 5.75 |
| Casing Head Installation | 16.5 |
| Safety | 1 |
| PU/LD BHA | 3.25 |
| Total Hours | 192 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$97,319 | Daily Total: | $97,319 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $19,185 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $431,999 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $451,183 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm3@nne-llc.com |
| Rig Phone Number: | 724-705-5435 | Report Date: | 7/14/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/14/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Sunny | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,923 | 6,923 | 411 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 8 |
|---|---|---|---|---|
| 8.75 Vertical | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Loading equipment to move to the Campbell Pad.

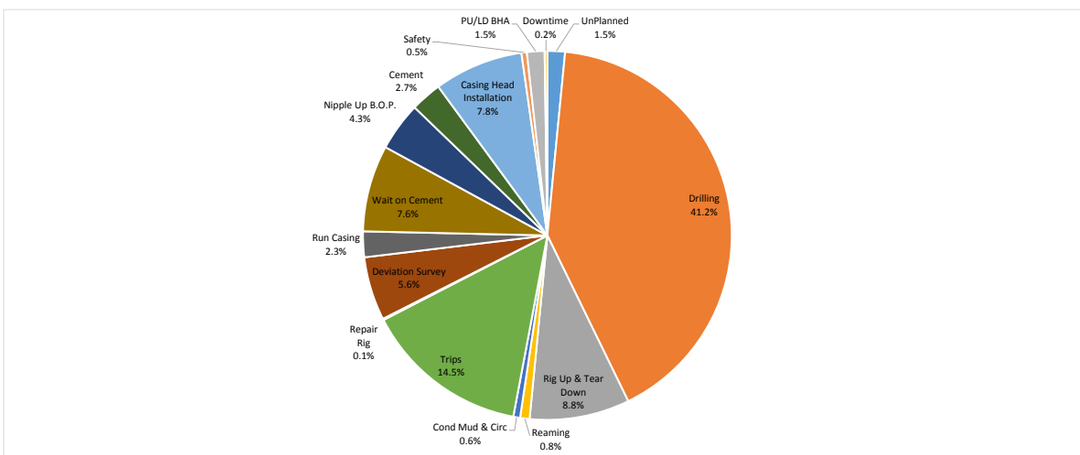
## 24 Hour Summary

TD the well at 6,923'. Took a gyro survey at 6,878'. Tripped drill pipe out of the hole and loaded the hole with brine. Began to rig down and prepare to move equipment to the Campbell Pad.

## Log of Operations

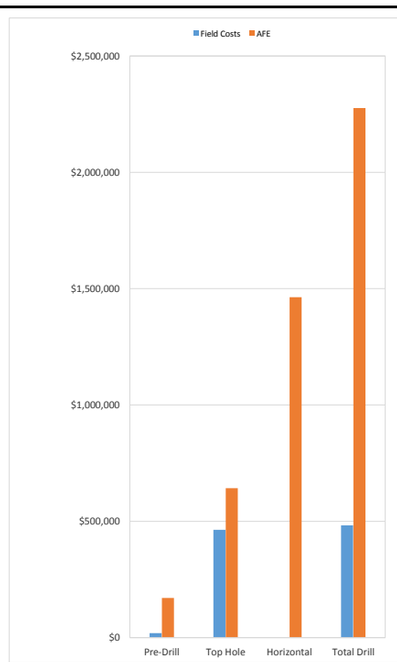
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 06:45 | 0.75 | Deviation Survey | Clean hole and run survey. 1.0 degrees Incl. 313.5 Azim |
| 06:45 | 10:15 | 3.5 | Drilling | Drilling 8.750 hole spp@505psi/air flow@2783cfm/torque@2133ft-lbs/WOB @1.5klbs/rotary @41RPM/ROP@208.9ft-hr. |
| 10:15 | 14:00 | 3.75 | Deviation Survey | Gyro Survey taken at 6,878'. Horizontal displacement was 111.1' at 288.17 degrees. |
| 14:00 | 18:15 | 4.25 | Trips | Tripping out of the hole and loading the hole with brine. |
| 18:15 | 18:45 | 0.5 | Downtime | Shut down to wait for a thunderstorm to pass. |
| 18:45 | 22:45 | 4 | Trips | Trip remaining drill pipe out of the hole. |
| 22:45 | 01:00 | 2.25 | Rig Up & Tear Down | Start to tear down equipment to move to the Campbell pad. Rig down BOP stack and flowline. Night cap placed over the well at 1:00. |
| 01:00 | | | | EOW |
| Total: | | 19 | TD at 6:00 AM: | 6,923 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.25 |
| Drilling | 87 |
| Rig Up & Tear Down | 18.5 |
| Reaming | 1.75 |
| Cond Mud & Circ | 1.25 |
| Trips | 30.5 |
| Repair Rig | 0.25 |
| Deviation Survey | 11.75 |
| Run Casing | 4.75 |
| Wait on Cement | 16 |
| Nipple Up B.O.P. | 9 |
| Cement | 5.75 |
| Casing Head Installation | 16.5 |
| Safety | 1 |
| PU/LD BHA | 3.25 |
| Downtime | 0.5 |
| Total Hours | 211 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$31,654 | Daily Total: | $31,654 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $19,185 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $463,652 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $482,837 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm3@nne-llc.com |
| Rig Phone Number: | 724-705-5435 | Report Date: | 7/15/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 7/15/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | Sunny with scattered showers | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | US Energy | 9 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,923 | 6,923 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 9 |
|---|---|---|---|---|
| 8.75 Vertical | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Hauling equipment to the Campbell pad.

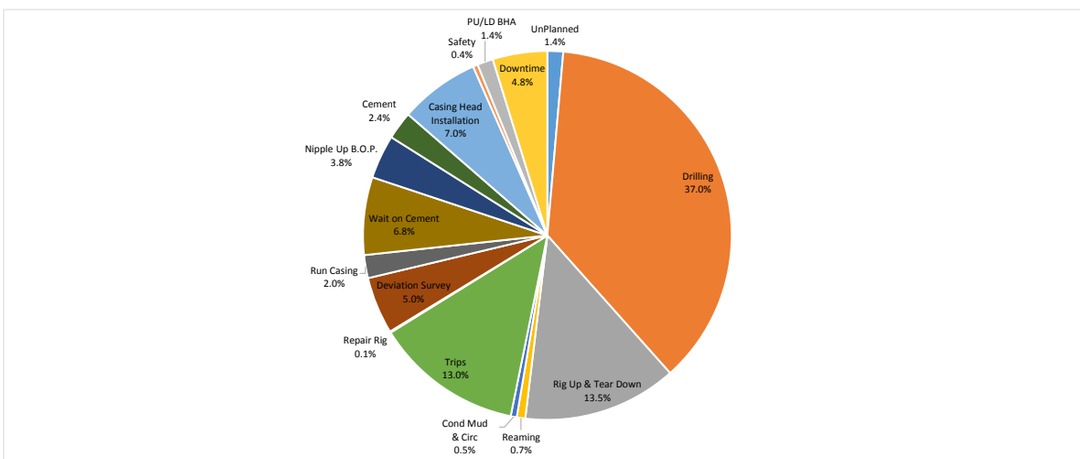
## 24 Hour Summary

Rigged down the rig and other equipment. Began hauling loads over to the Campbell pad. Waited on daylight before moving more equipment to the Campbell pad.

## Log of Operations

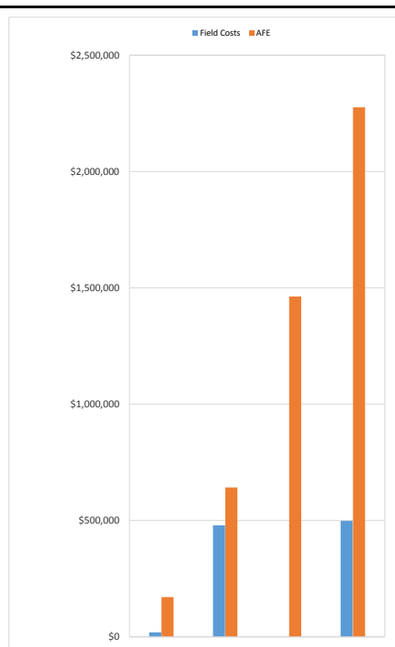
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 19:15 | 13.25 | Rig Up & Tear Down | Rigged down rig and equipment. Began hauling equipment over to the Campbell Pad. |
| 19:15 | 06:00 | 10.75 | Downtime | Waiting on daylight to move in more equipment to the Campbell pad. |
| Total: | | 24 | TD at 6:00 AM: | 6,923 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.25 |
| Drilling | 87 |
| Rig Up & Tear Down | 31.75 |
| Reaming | 1.75 |
| Cond Mud & Circ | 1.25 |
| Trips | 30.5 |
| Repair Rig | 0.25 |
| Deviation Survey | 11.75 |
| Run Casing | 4.75 |
| Wait on Cement | 16 |
| Nipple Up B.O.P. | 9 |
| Cement | 5.75 |
| Casing Head Installation | 16.5 |
| Safety | 1 |
| PU/LD BHA | 3.25 |
| Downtime | 11.25 |
| Total Hours | 235 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$15,603 | Daily Total: | $15,603 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $19,185 |
| Top Hole Drilling AFE Amt: | $642,200 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,463,200 | Cumulative Horizontal Cost: | |
| Cumulative Well AFE Amt: | $2,275,900 | Cumulative Well Cost: | $498,440 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | cm3@nne-llc.com |
| Rig Phone Number: | 724-705-5435 | Report Date: | 7/16/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 8/21/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,923 | 6,923 | 6923 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 46 |
|---|---|---|---|---|
| | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Safety meeting with TK Stanley, Patterson & NNE rep

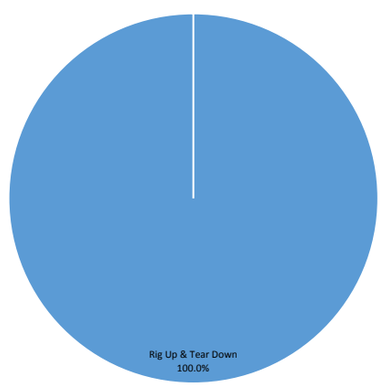
## 24 Hour Summary

Start rig down haul 12 loads to MIP pad, wash rig & clean mud tanks

## Log of Operations

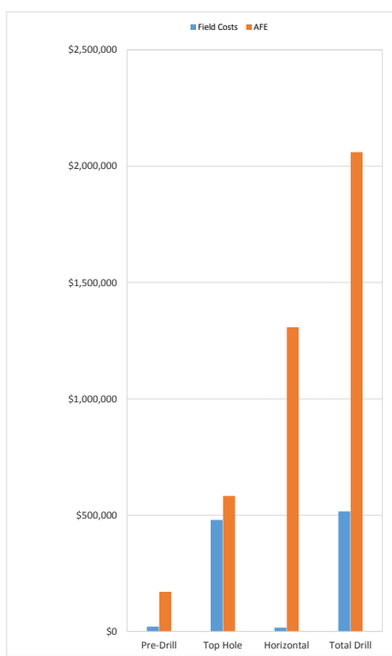
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 20:00 | 14 | Rig Up & Tear Down | Load out Baker directional tools, Start rig down, GPX cleaning mud tanks, Emery services washing rig, Load & haul 8 loads drill pipe, pipe racks, 1 load boards, 1 load HW-DP & 1 frack tank. ( 30% rigged down & 10% moved) |
| 20:00 | 06:00 | 10 | Rig Up & Tear Down | GPX & 2 rig hands cleaning mud tanks , |
| Total: | | 24 | TD at 6:00 AM: | 6,923 feet |

| Activity Code | Total Hrs |
|---|---|
| Rig Up & Tear Down | 24 |
| Total Hours | 24 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | -$1,334 | Daily Total: | $17,657 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $20,519 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $16,323 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $516,097 |




## 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: | 8/22/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 8/22/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | | | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 47 |
|---|---|---|---|---|
| | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Safety meeting with TK Stanley, Patterson & NNE rep

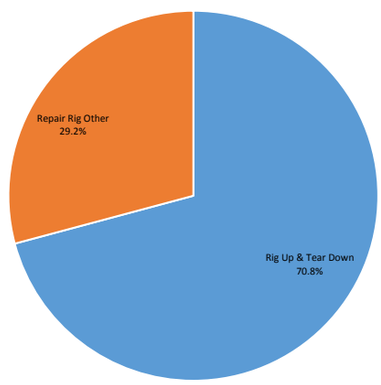
## 24 Hour Summary

Rig down load out & haul 19 loads to MIP pad. 90% rigged down & 50% moved

## Log of Operations

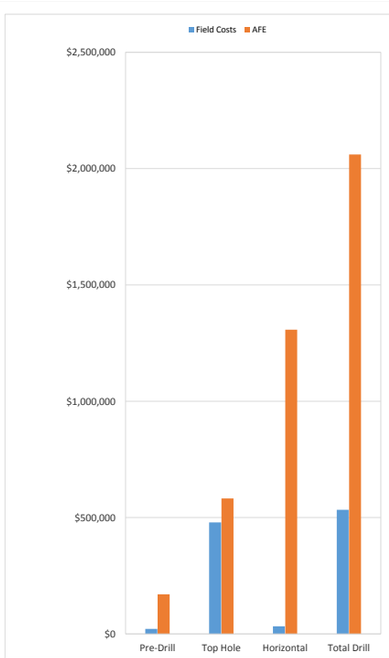
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 20:00 | 14 | Repair Rig Other | Rig down load out & haul 19 loads to MIP pad. 90% rigged down & 50% moved |
| 20:00 | 06:00 | 10 | Rig Up & Tear Down | Two Patterson hands working nights, ( Dress out derrick & clean location) |
| Total: | | 24 | TD at 6:00 AM: | feet |

| Activity Code | Total Hrs |
|---|---|
| Rig Up & Tear Down | 34 |
| Repair Rig Other | 14 |
| Total Hours | 48 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $14,989 | Daily Total: | $17,657 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $21,853 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $32,646 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $533,754 |




## 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: | 8/23/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 8/23/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,923 | 6,923 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 48 |
|---|---|---|---|---|
| Rig Up/Tear Down | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Safety meeting with TK Stanley, Patterson & NNE rep

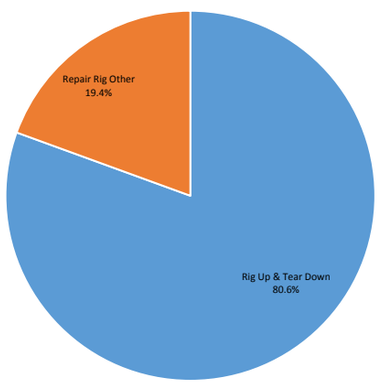
## 24 Hour Summary

Rig down load out & haul 23 loads to MIP pad. 100% rigged down , 80% moved, 25% rigged up.

## Log of Operations

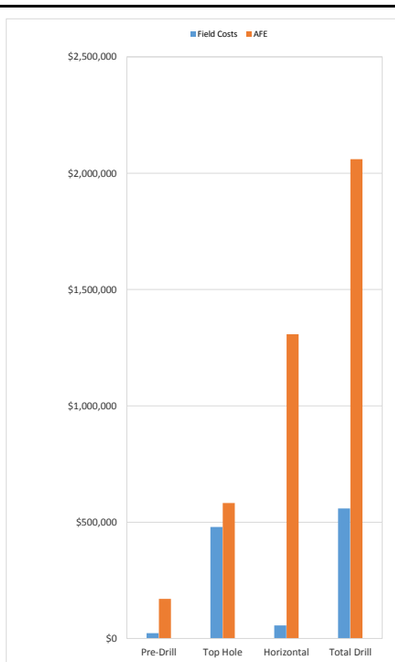
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 21:00 | 15 | Rig Up & Tear Down | Rig down load out & haul 23 loads to MIP pad. 100% rigged down , 80% moved, 25% rigged up. |
| 21:00 | 06:00 | 9 | Rig Up & Tear Down | Working 2 men on nights ( Hooking up electric,air & water lines. |
| Total: | | 24 | TD at 6:00 AM: | 6,923 feet |

| Activity Code | Total Hrs |
|---|---|
| Rig Up & Tear Down | 58 |
| Repair Rig Other | 14 |
| Total Hours | 72 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $31,312 | Daily Total: | $25,147 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $23,187 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $56,459 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $558,901 |




## 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: | 8/24/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 8/24/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,923 | 6,923 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 49 |
|---|---|---|---|---|
| Rig Up/Tear Down | 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

Safety meeting with TK Stanley, Patterson & NNE rep

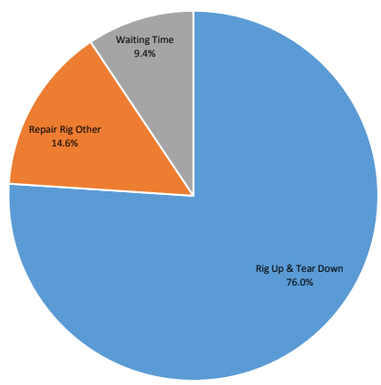
## 24 Hour Summary

Rig down load out & haul 16 loads to MIP pad. 100% rigged down , 95% moved, 50% rigged up.

## Log of Operations

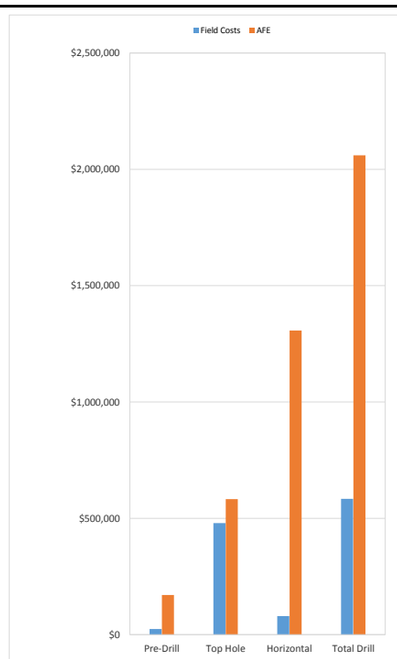
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 21:00 | 15 | Rig Up & Tear Down | Rig down load out & haul 16 loads to MIP pad. 100% rigged down , 95% moved, 50% rigged up. |
| 21:00 | 06:00 | 9 | Waiting Time | Waiting on daylight to rig up |
| Total: | | 24 | TD at 6:00 AM: | 6,923 feet |

| Activity Code | Total Hrs |
|---|---|
| Rig Up & Tear Down | 73 |
| Repair Rig Other | 14 |
| Waiting Time | 9 |
| Total Hours | 96 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $55,125 | Daily Total: | $24,797 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $24,521 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $79,922 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $583,698 |




## 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: | 8/25/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 8/25/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,923 | 6,923 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 50 |
|---|---|---|---|---|
| Rig Up/Tear Down | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

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

## Present Operation at Report Time

Rigging up

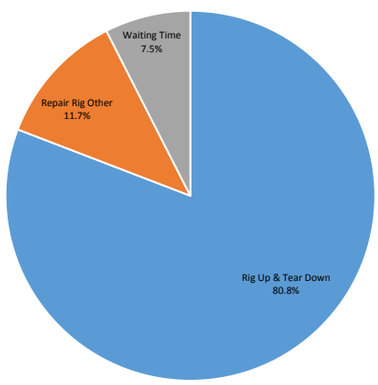
## 24 Hour Summary

Complete rig move @ 20:00 hours & 80% rigged up

## Log of Operations

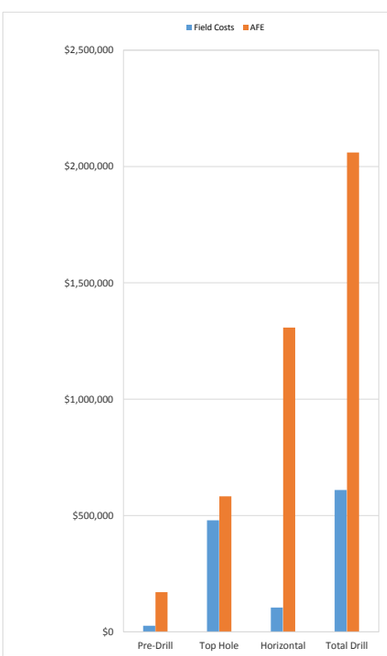
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 18:00 | 12 | Rig Up & Tear Down | Complete rig move, & continue rig up . |
| 18:00 | 06:00 | 12 | Rig Up & Tear Down | Break tour, Rigging up 80% rigged up |
| Total: | | 24 | TD at 6:00 AM: | 6,923 feet |

| Activity Code | Total Hrs |
|---|---|
| Rig Up & Tear Down | 97 |
| Repair Rig Other | 14 |
| Waiting Time | 9 |
| Total Hours | 120 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $78,588 | Daily Total: | $25,947 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $25,855 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $104,535 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $609,645 |




## 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: | 8/26/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 8/26/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,923 | 6,923 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 51 |
|---|---|---|---|---|
| Rig Up/Tear Down | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

Vent well to remove night cap

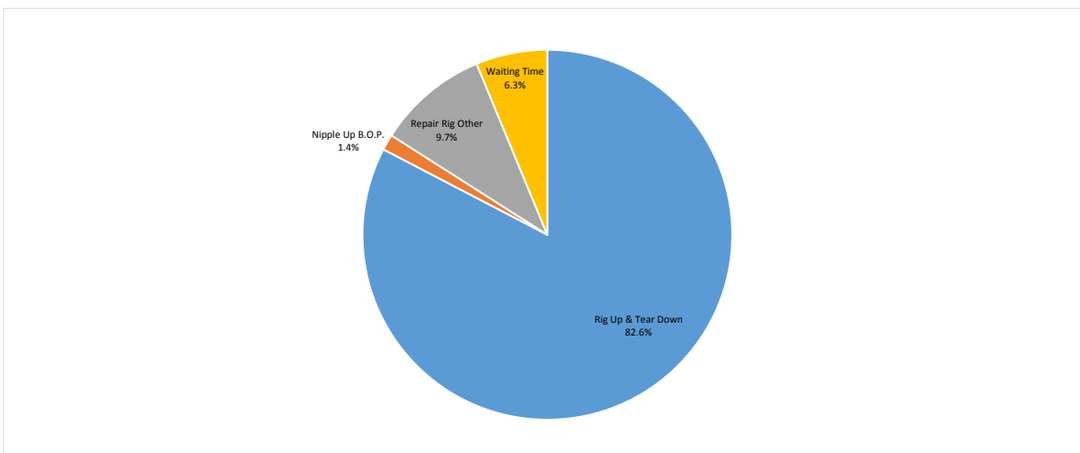
## 24 Hour Summary

Complete rig up, Vent well

## Log of Operations

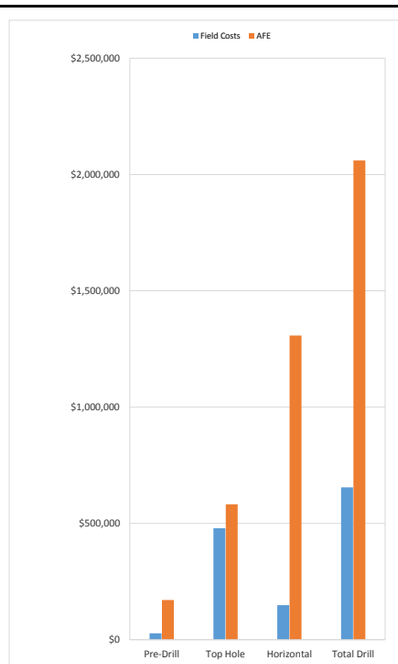
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 04:00 | 22 | Rig Up & Tear Down | Continue rig up 100% rigged up |
| 04:00 | 06:00 | 2 | Nipple Up B.O.P. | Pump out cellar, Hook up vent line & vent well |
| Total: | | 24 | TD at 6:00 AM: | 6,923 feet |

| Activity Code | Total Hrs |
|---|---|
| Rig Up & Tear Down | 119 |
| Nipple Up B.O.P. | 2 |
| Repair Rig Other | 14 |
| Waiting Time | 9 |
| Total Hours | 144 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $103,201 | Daily Total: | $45,138 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $27,189 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $148,339 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $654,783 |




## 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: | 8/27/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 8/27/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,923 | 6,923 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 52 |
|---|---|---|---|---|
| Rig Up/Tear Down | Horizontal Spud Date: | | Days From Horizontal: | |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

Rig down electrician trouble shooting top drive.

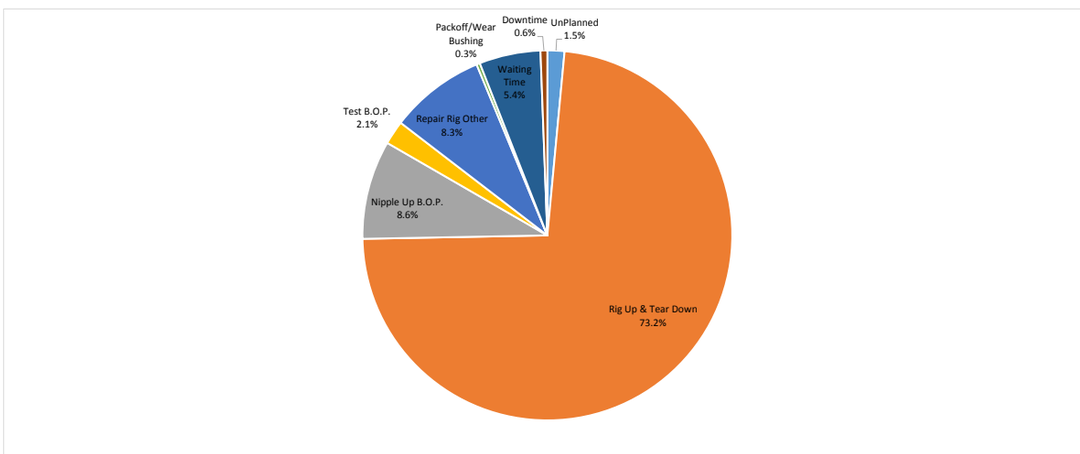
## 24 Hour Summary

Nipple up & test BOPS, Set wear bushing, Walk rig over hole & level, Rig up riser& flow line, load dir tools to floor, rig down 1 hour.

## Log of Operations

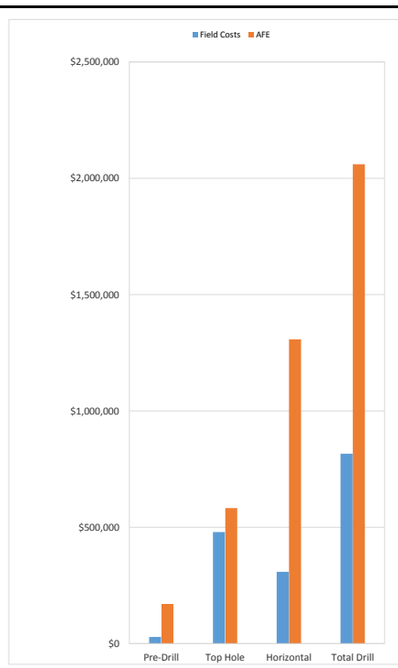
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 14:00 | 8 | Nipple Up B.O.P. | Remove night cap, Install DSA, 2 spacer spools, Kill line & valves, HCR , & set stack on spool & torque all ( Blue Dot) |
| 14:00 | 17:30 | 3.5 | Test B.O.P. | Test BOP'S HCR, Manual choke, blinds, pipes, all choke valves, Top Drive, TIW, DART, All to 4500 high for 30 mins and 250 low for 5 mins. tested the anular at 2700 high and 250 low. ( All test good) |
| 17:30 | 18:00 | 0.5 | Packoff/Wear Bushing | Pull test plug & set wear bushing. |
| 18:00 | 20:30 | 2.5 | UnPlanned | Walk rig one foot to center over well & level rig |
| 20:30 | 01:00 | 4.5 | Nipple Up B.O.P. | Hook up riser, flow line, fill up line & turn buckles on BOP |
| 01:00 | 05:00 | 4 | Rig Up & Tear Down | Install pipe handler to catwalk, Set mouse hole, prep floor for BHA, inspect slips & wedding band, Load directional subs to floor. |
| 05:00 | 06:00 | 1 | Downtime | Top drive down ( electrician trouble shooting ) |
| Total: | | 24 | TD at 6:00 AM: | 6,923 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 2.5 |
| Rig Up & Tear Down | 123 |
| Nipple Up B.O.P. | 14.5 |
| Test B.O.P. | 3.5 |
| Repair Rig Other | 14 |
| Packoff/Wear Bushing | 0.5 |
| Waiting Time | 9 |
| Downtime | 1 |
| Total Hours | 168 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $147,005 | Daily Total: | $161,267 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $28,523 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $308,272 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $816,050 |




## 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: | 8/28/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/16/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | 52 | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | | | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 72 |
|---|---|---|---|---|
| Rig Up/Tear Down | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 19 |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

RU on 3H well

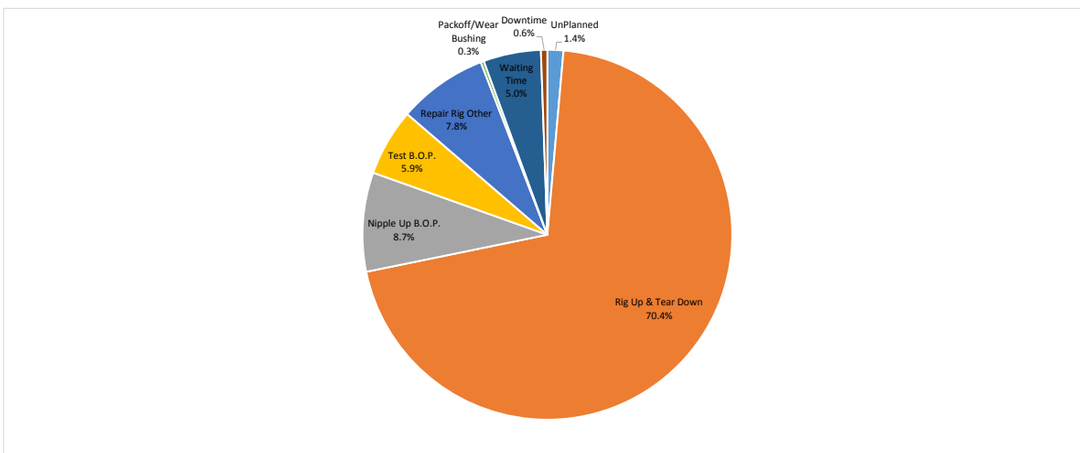
## 24 Hour Summary

Skid Rig to 3H well, NU and Test BOP. RU Back yard equipment, prespud checklist

## Log of Operations

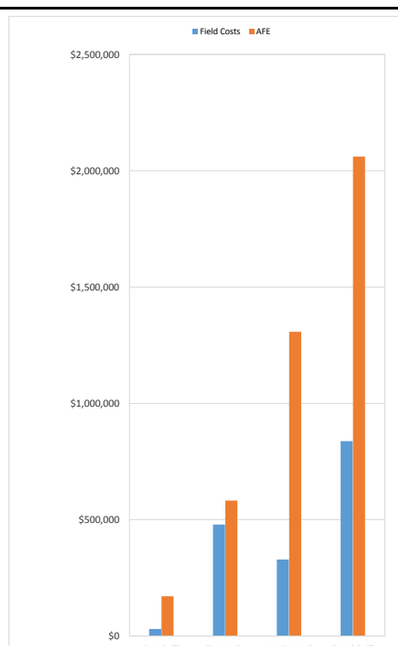
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 19:00 | 21:00 | 2 | Rig Up & Tear Down | Skid Rig to 3H well. |
| 21:00 | 22:00 | 1 | Rig Up & Tear Down | RU over the 3H well. Prespud check list. |
| 22:00 | 23:00 | 1 | Nipple Up B.O.P. | NU BOP on 3H well. |
| 23:00 | 00:00 | 1 | Test B.O.P. | Spot pressure test equipment, safety meeting with Test Crew, MU Test Sub, Set plug in well head, Fill stack for test, open 2" casing valve in cellar. |
| 00:00 | 01:00 | 1 | Test B.O.P. | Test Pumps, Pipe Rams, HCR, Outside Kill 250 low for 5 min 4500 psi high for 30 min |
| 01:00 | 02:00 | 1 | Test B.O.P. | Test Stand pipe, MCR, Pipe rams, Inside Kill 250 low for 5 min 4500 psi high for 30 min |
| 02:00 | 03:45 | 1.75 | Test B.O.P. | Test Man IBOP, out side choke, pipe rams. Retest IBOP after first attempt failed. All test passed 250 low for 5 min, 4500 high for 30 min |
| 03:45 | 04:30 | 0.75 | Test B.O.P. | Test Annular 250 low for 5 min, 2700 high for 30 min |
| 04:30 | 05:30 | 1 | Test B.O.P. | Remove test sub and test joint, make up Dart Valve and TIW to test sub, Test blind rams 250 low for 5 min 4500 high for 30 min. |
| 05:30 | 06:00 | 0.5 | Test B.O.P. | Finish testing Dart Valve and TIW. Continue RU |
| Total: | | 11 | TD at 6:00 AM: | feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 2.5 |
| Rig Up & Tear Down | 126 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 10.5 |
| Repair Rig Other | 14 |
| Packoff/Wear Bushing | 0.5 |
| Waiting Time | 9 |
| Downtime | 1 |
| Total Hours | 179 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $306,938 | Daily Total: | $21,702 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $29,857 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $328,640 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $837,752 |




## 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: | 9/17/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/17/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 6,294 | 6,295 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 73 |
|---|---|---|---|---|
| Rig Up/Tear Down | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 20 |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

Drilling Curve

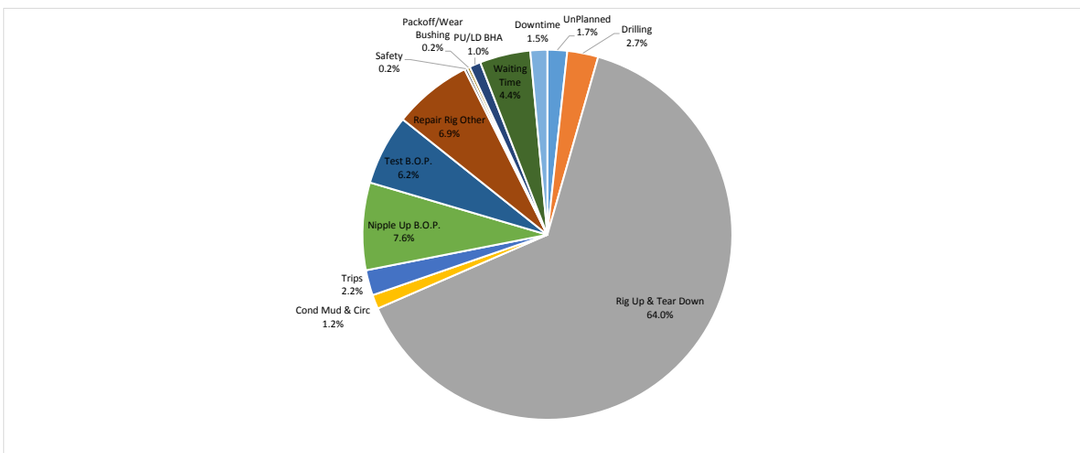
## 24 Hour Summary

Finish RU and prespud walk through. PU SLB directional BHA TIH and kick off cement plug

## Log of Operations

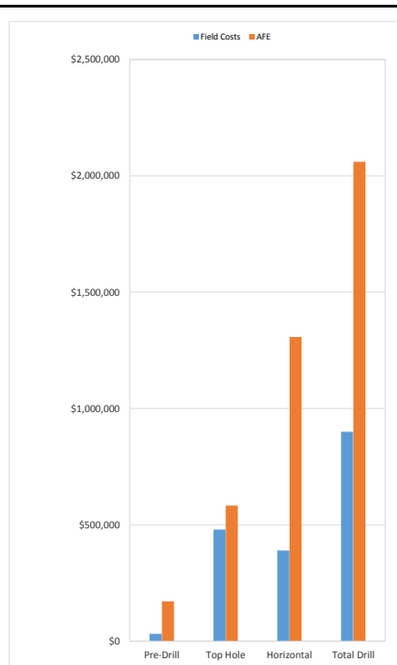
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 08:00 | 2 | Test B.O.P. | Finish testing the IBOP and Dart valve. |
| 08:00 | 12:00 | 4 | Rig Up & Tear Down | Rig up Flare line, panic line, flow line, catch can. |
| 12:00 | 12:30 | 0.5 | Safety | Finish pre spud inspection and hold safety meeting with Pathfinder on picking up BHA |
| 12:30 | 14:30 | 2 | PU/LD BHA | P/U Pathfinder 8 3/4 directional tools |
| 14:30 | 16:00 | 1.5 | Trips | Trip in the hole, install rotating head. T/1800' |
| 16:00 | 18:00 | 2 | Downtime | Trip out of the hole to retrieve a broken dope brush that fell down the pipe while doping the box end of the drill string. |
| 18:00 | 21:00 | 3 | Trips | TIH F/1800 T/5864 |
| 21:00 | 22:00 | 1 | UnPlanned | Change Shaker Screens: Screen down to 140's to allow higher flow rate. Mud vis over 90 |
| 22:00 | 00:30 | 2.5 | Cond Mud & Circ | Circulate BU/ Stage Pumps up to drilling rate due to contaminated mud and heavy cement returns |
| 00:30 | 03:30 | 3 | Drilling | Drilling soft cement F/5864 T/ 6230 WOB 7K , RT 10, 350 gpm, ROP 175 fph, TQ 3K |
| 03:30 | 06:00 | 2.5 | Drilling | Drill F/6230 T/6295 30 fph start building curve WOB 14, SPP 2743, Diff 193, 460 gpm, RT 10, TQ 3K |
| Total: | | 24 | TD at 6:00 AM: | 6,295 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 5.5 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 2.5 |
| Trips | 4.5 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Repair Rig Other | 14 |
| Safety | 0.5 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 203 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $327,306 | Daily Total: | $62,292 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $31,191 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $389,598 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $900,044 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | Cm3@nne-llc.com |
| Rig Phone Number: | 7247055435 | Report Date: | 9/18/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/18/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | 85 sunny | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,306 | 7,443 | 1148 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 74 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 21 |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

Drilling Curve

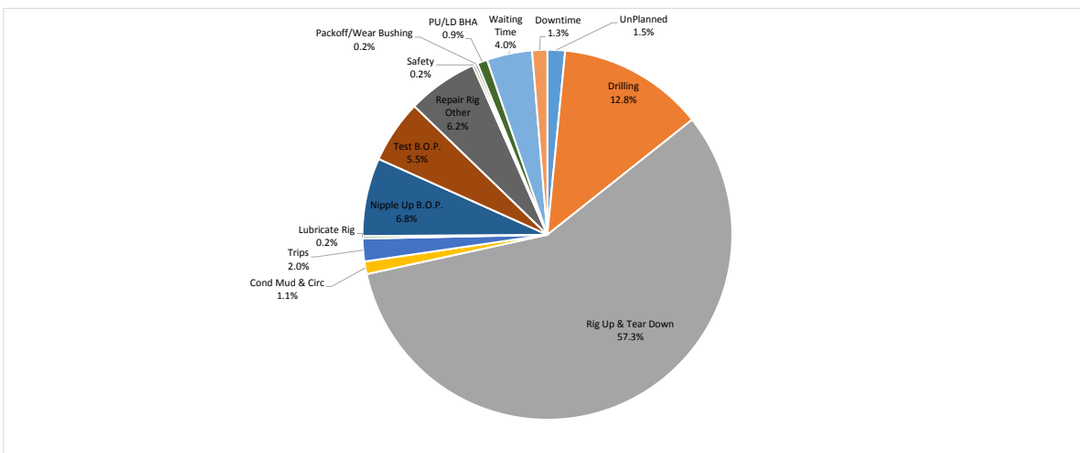
## 24 Hour Summary

Drilling curve will land curve @ approximately 8000' MD. Worked on cleaning the rig and location.

## Log of Operations

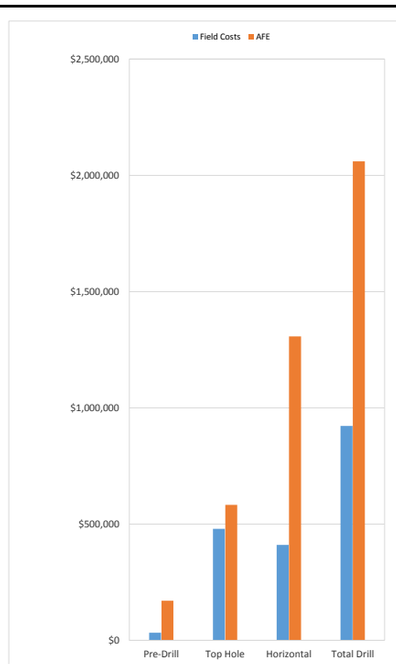
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 17:30 | 11.5 | Drilling | Drill F/6295 T/6866 3 building curve WOB 14, SPP 2743, Diff 193, 460 gpm, RT 10, TQ 3K (ROP 50 fph) |
| 17:30 | 18:00 | 0.5 | Lubricate Rig | Daily Rig Service |
| 18:00 | 00:00 | 6 | Drilling | Drill Curve F/6866 T/ 7125 WOB 15, SPP 2817, 460 gpm, Diff 510, RT 20, TQ5K, (ROP 45 fph) |
| 00:00 | 06:00 | 6 | Drilling | Drill Curve F/7125 T/7443' WOB 24, RT 20, TQ 7.5K, SPP 2955, DIFF 408, (ROP 53 fph) |
| Total: | | 24 | TD at 6:00 AM: | 7,443 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 29 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 2.5 |
| Trips | 4.5 |
| Lubricate Rig | 0.5 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Repair Rig Other | 14 |
| Safety | 0.5 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 227 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $388,264 | Daily Total: | $22,140 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $32,525 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $410,404 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $922,184 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | Cm3@nne-llc.com |
| Rig Phone Number: | 7247055435 | Report Date: | 9/19/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/19/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | 80 sunny wind | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,452 | 9,600 | 2157 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 75 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 22 |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

Drilling Lateral

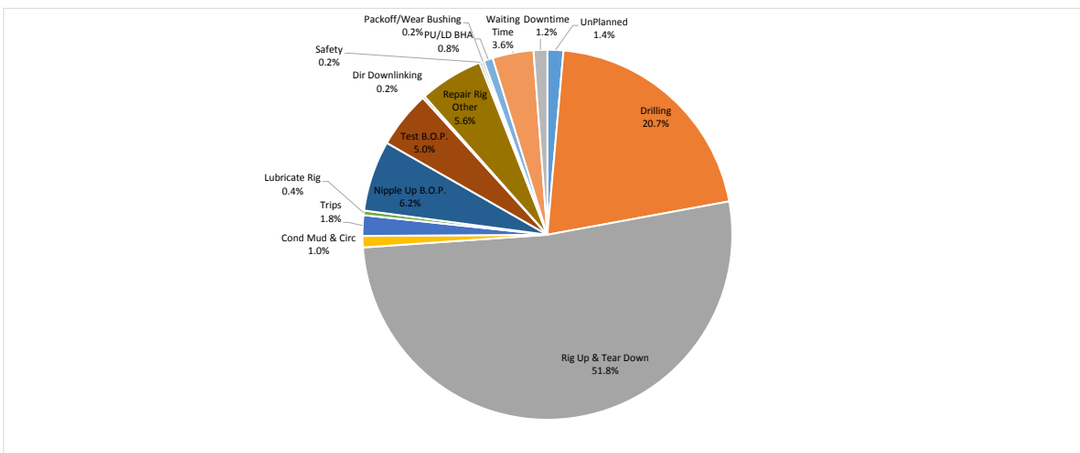
## 24 Hour Summary

Land Curve at 8000' MD 7484' TVD. Drilling Lateral at 9600' MD geosteering to stay in target zone.

## Log of Operations

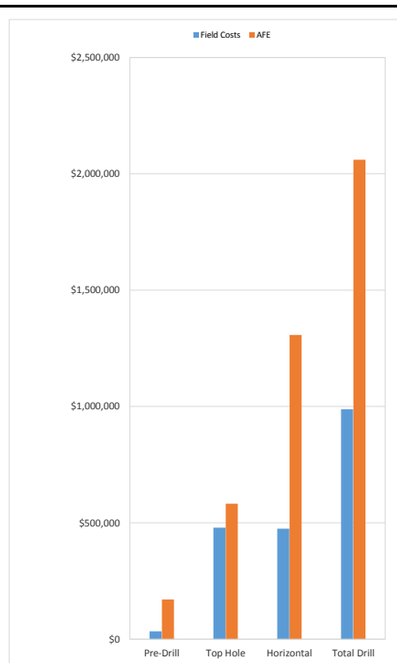
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 16:30 | 10.5 | Drilling | Drill Curve F/7453 T/8003' WOB 24, RT 20, TQ 7.5K, SPP 2955, DIFF 408, (ROP 53fph) (curve landed @8000' MD, 7484' TVD) |
| 16:30 | 17:00 | 0.5 | Lubricate Rig | Rig service |
| 17:00 | 17:30 | 0.5 | Dir Downlinking | Land curve DL tool |
| 17:30 | 23:00 | 5.5 | Drilling | Drill F/ 8003 T/8711 WOB 27, RT 60, TQ 10K, SPP 3270, Diff 630, 460 gpm (ROP 128 fph) |
| 23:00 | 06:00 | 7 | Drilling | Drill Lateral F/8711 T/9600 WOB 25, RT, 100, TQ 12K, SPP 3370, Diff 562, 460 gpm (ROP 127) |
| Total: | | 24 | TD at 6:00 AM: | 9,600 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 52 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 2.5 |
| Trips | 4.5 |
| Lubricate Rig | 1 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Safety | 0.5 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 251 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $409,070 | Daily Total: | $65,466 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $33,859 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $474,536 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $987,650 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | Cm3@nne-llc.com |
| Rig Phone Number: | 7247055435 | Report Date: | 9/20/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/20/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | 75 sunny | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,419 | 13,019 | 3419 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 76 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 23 |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

Drilling 8.75 hole in the lateral section.

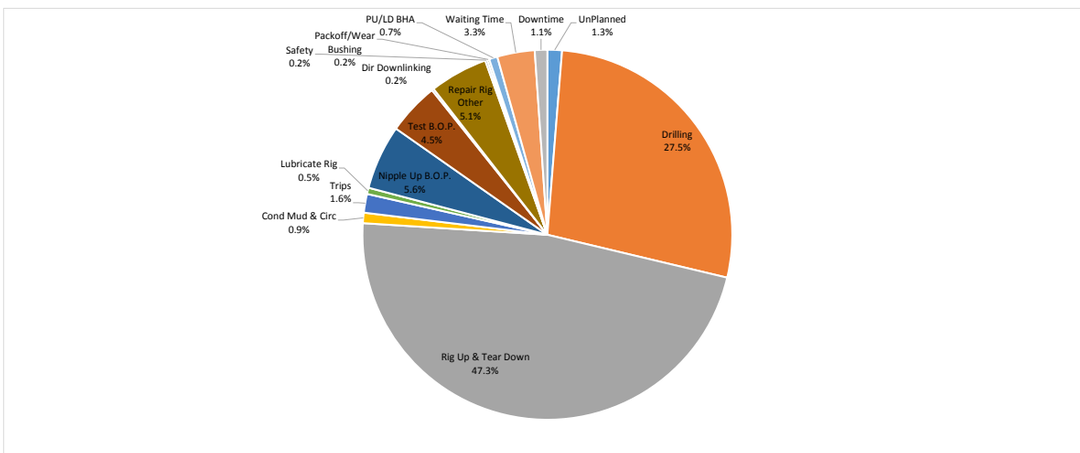
## 24 Hour Summary

Drilled 3400' of new 8.75 hole in the lateral section, performed rig service. Set up csg racks for csg delivery, clean rig. Pick up and Slack off is very good showing signs of a clean hole.

## Log of Operations

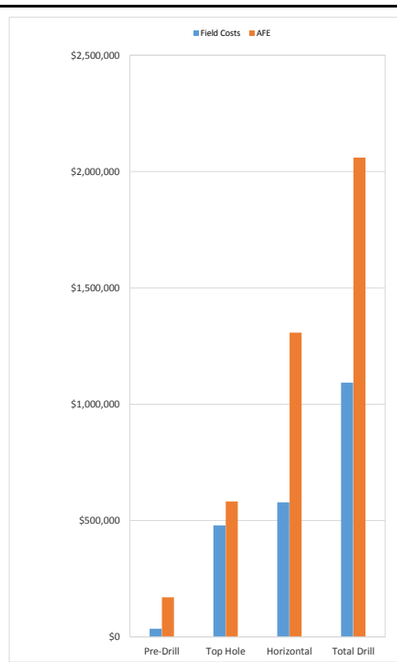
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 16:15 | 10.25 | Drilling | Drill F/9600 T/11,126' WOB 25K, RT 100, TQ 12, SPP 3370, DIFF 600, 460 gpm (ROP 149 fph) |
| 16:15 | 16:45 | 0.5 | Lubricate Rig | Daily Rig Service |
| 16:45 | 06:00 | 13.25 | Drilling | Drill F/11,126 T/13,019' WOB 29 RT 100 TQ 15 SPP 3989 DIFF 651, GPM 460, (142 fph) |
| Total: | | 24 | TD at 6:00 AM: | 13,019 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 75.5 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 2.5 |
| Trips | 4.5 |
| Lubricate Rig | 1.5 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Safety | 0.5 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 275 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $473,202 | Daily Total: | $105,145 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $35,193 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $578,346 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,092,794 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | Cm3@nne-llc.com |
| Rig Phone Number: | 7247055435 | Report Date: | 9/21/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/21/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,412 | 13,874 | 855 |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 77 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 24 |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

TOOH @2200'

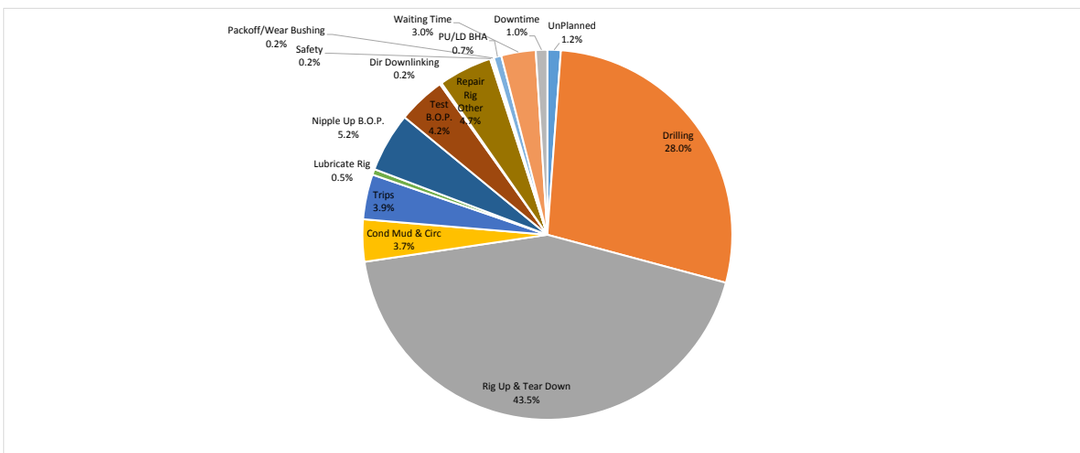
## 24 Hour Summary

TD well @ 13,874 MD 7421' TVD. Circulate hole clean, TOOH to 6000' then LD 2000' of DP and then resumed TOOH to the BHA.

## Log of Operations

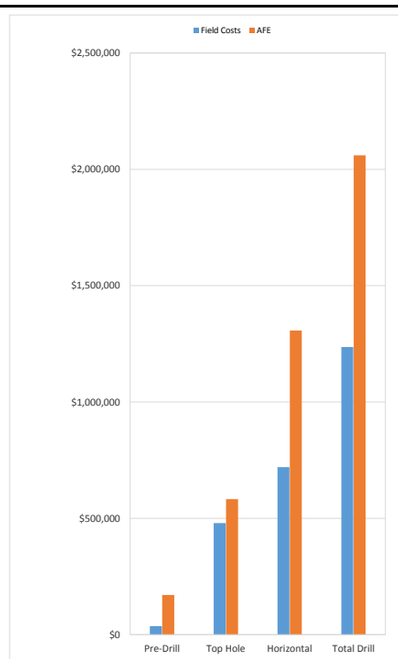
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 14:15 | 8.25 | Drilling | Drill F/13,019' T/13,874' WOB 29 RT 100 TQ 15 SPP 3989 DIFF 651, GPM 460, (100 fph) TD the well @ 13,874'MD TVD 7,412' |
| 14:15 | 22:00 | 7.75 | Cond Mud & Circ | Circulate 2 btms up and clean hole. |
| 22:00 | 01:00 | 3 | Trips | TOOH F/13,874 T/ 7955' |
| 01:00 | 01:45 | 0.75 | Cond Mud & Circ | Circulate at base of curve. |
| 01:45 | 04:00 | 2.25 | Trips | TOOH F/7955 T/5907 |
| 04:00 | 05:15 | 1.25 | Trips | TOOH LD DP F/5907 T/4000 |
| 05:15 | 06:00 | 0.75 | Trips | TOOH F/4000 T/ 2200' |
| Total: | | 24 | TD at 6:00 AM: | 13,874 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 83.75 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 11 |
| Trips | 11.75 |
| Lubricate Rig | 1.5 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Safety | 0.5 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 299 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $577,012 | Daily Total: | $143,246 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $36,527 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $720,258 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,236,040 |




## Supervisor Contact Information

| | | | |
|---|---|---|---|
| NNE Representative: | Jamie Czerneski | Email: | |
| Phone Number: | 304-382-1825 | Fax Number: | Cm3@nne-llc.com |
| Rig Phone Number: | 7247055435 | Report Date: | 9/22/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/22/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,412 | 13,874 | |

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

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |

## Present Operation at Report Time

Switch back to MIP 3H pilot 10 AM 9/22/15

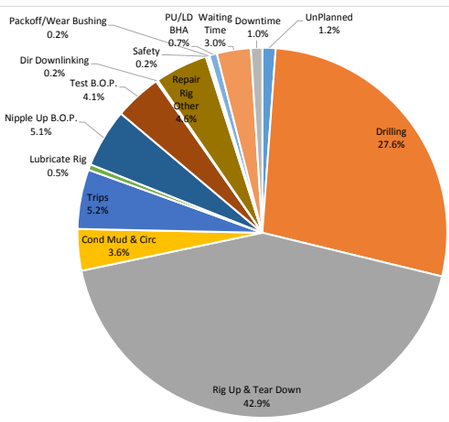
## 24 Hour Summary

Lay out BHA clear floor ready to run wire line loggs

## Log of Operations

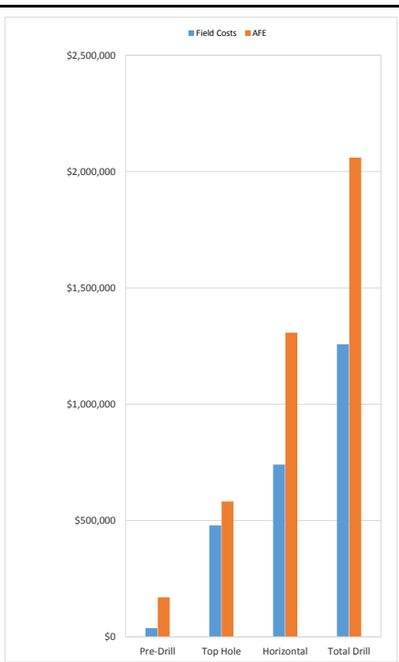
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 10:00 | 4 | Trips | Lay out BHA & clear rig floor, ready to run wire logs. |
| Total: | | 4 | TD at 6:00 AM: | 13,874 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 83.75 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 11 |
| Trips | 15.75 |
| Lubricate Rig | 1.5 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Safety | 0.5 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 303 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $718,924 | Daily Total: | $21,902 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $37,861 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $740,826 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,257,942 |




## 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: | 9/23/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/29/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,412 | 13,874 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 85 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 32 |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |
| Production | 13,861 |

## Present Operation at Report Time

Pumping production cement job

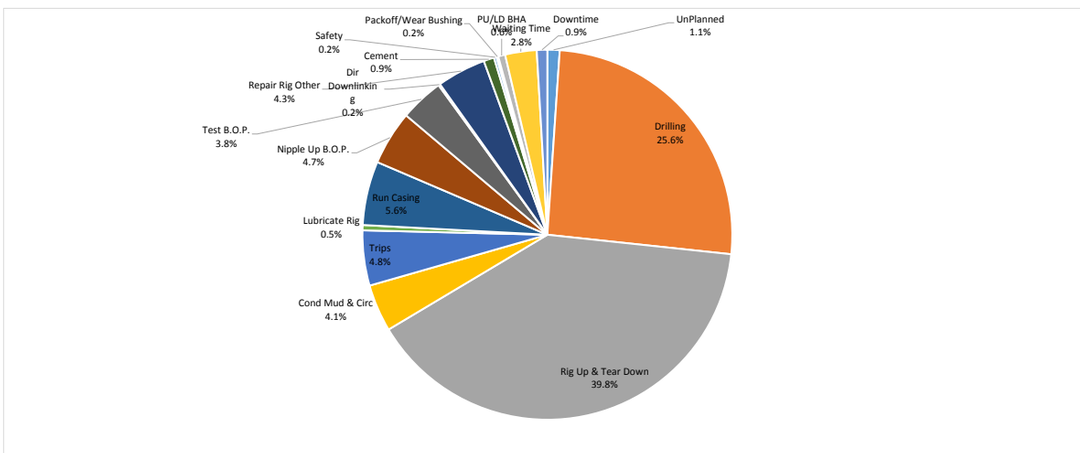
## 24 Hour Summary

Finish fiber optic splice. Test splice and continue running CSG F/8500' T/13861'. RD csg crew, RU cement crew.

## Log of Operations

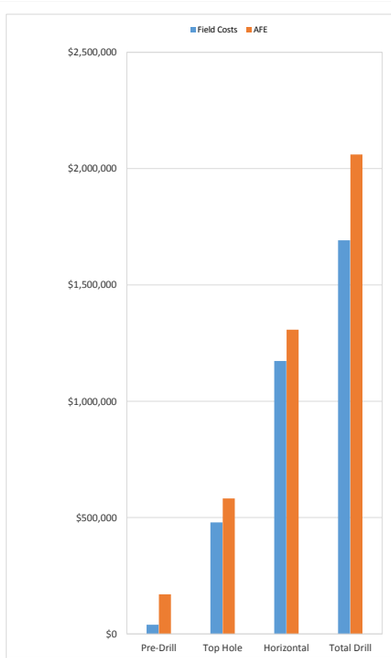
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 12:00 | 6 | Run Casing | Splice fiber optic cable together & test 2000 LO 11,000 HI |
| 12:00 | 19:30 | 7.5 | Run Casing | Run 5.5" casing with fiber line 8,500' 12,000' (Test fiber line & fill pipe every 1,000') |
| 19:30 | 20:45 | 1.25 | Cond Mud & Circ | Test cable @ 12,000' circulate |
| 20:45 | 22:45 | 2 | Run Casing | Run CSG with fiber F/12,000' T/13,000' |
| 22:45 | 23:15 | 0.5 | Run Casing | Test cable @ 13,000' |
| 23:15 | 01:30 | 2.25 | Run Casing | Run CSG to 13,861' land CSG |
| 01:30 | 02:45 | 1.25 | Cond Mud & Circ | LD CRT tool, RU cement head and circulate CSG. RD power tongs, Spot cement equipment |
| 02:45 | 04:30 | 1.75 | Cement | RU SLB cement crew |
| 04:30 | 04:45 | 0.25 | Safety | PJSM with Patterson, SLB, MiSwaco, Newalta. Load plug into cement head |
| 04:45 | 06:00 | 1.25 | Cement | Pressure test iron. Start pumping cement job. |
| Total: | | 24 | TD at 6:00 AM: | 13,874 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 83.75 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 13.5 |
| Trips | 15.75 |
| Lubricate Rig | 1.5 |
| Run Casing | 18.25 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Cement | 3 |
| Safety | 0.75 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 327 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $739,492 | Daily Total: | $433,627 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $39,195 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $1,173,119 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,691,569 |




## 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: | 9/30/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 9/30/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,412 | 13,874 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 86 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 33 |

## Casing/Liners

| Casing | Length (ft) |
|---|---|
| Surface | 508 |
| Intermediate | 1,803 |
| Production | 13,861 |

## Present Operation at Report Time

WOC, cleaning mud pits and rigging down

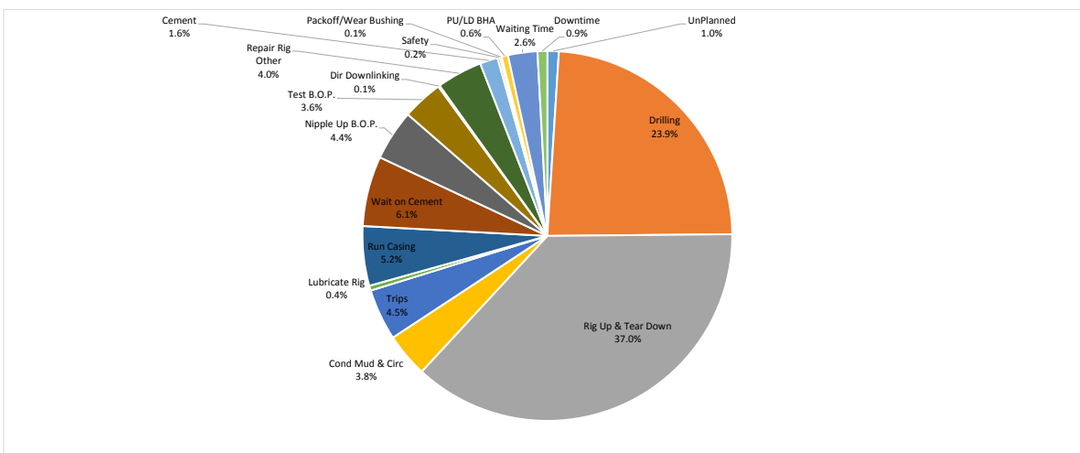
## 24 Hour Summary

Finish pumping cement job. Plug down @ 8am, floats holding. Monitor Cement temperature with SLB fiber. Haul off mud, DP, silos. Start cleaning back yard equipment and RD for rig move.

## Log of Operations

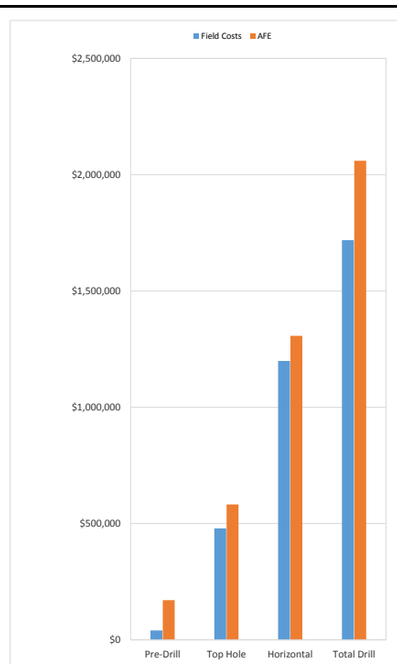
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 08:30 | 2.5 | Cement | Pump & displace cement as follows, pump w/B 220 100 BBL spacer, Pump lead 222 BBL 15.0 PPG cement, Pump tail 367 BBL 15.4 PPG, cement flush lines, drop plug & displace with 107 BBL ,bump plug 500 PSI over, hold 5 mins bleed back 4 BBL, floats held bump plug @ 7:50 hours. Rig down & load out cementers. |
| 08:30 | 18:00 | 9.5 | Wait on Cement | Schlumberger monitor cement temp, rig down drip pan, start clean mud pits, rig down crane, send back sack material (MUD) Send SBM back to Swaco. |
| 18:00 | 06:00 | 12 | Wait on Cement | SLB monitor cement temp, rig down, haul DP off location, clean mud pits and backyard equipment. |
| Total: | | 24 | TD at 6:00 AM: | 13,874 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 83.75 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 13.5 |
| Trips | 15.75 |
| Lubricate Rig | 1.5 |
| Run Casing | 18.25 |
| Wait on Cement | 21.5 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Cement | 5.5 |
| Safety | 0.75 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 351 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $1,171,785 | Daily Total: | $27,582 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $40,529 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $1,199,367 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,719,151 |




## 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: | 10/1/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 10/1/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,412 | 13,874 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 87 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 34 |

## Casing/Liners

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

## Present Operation at Report Time

Safety meeting on nipple down & set slips

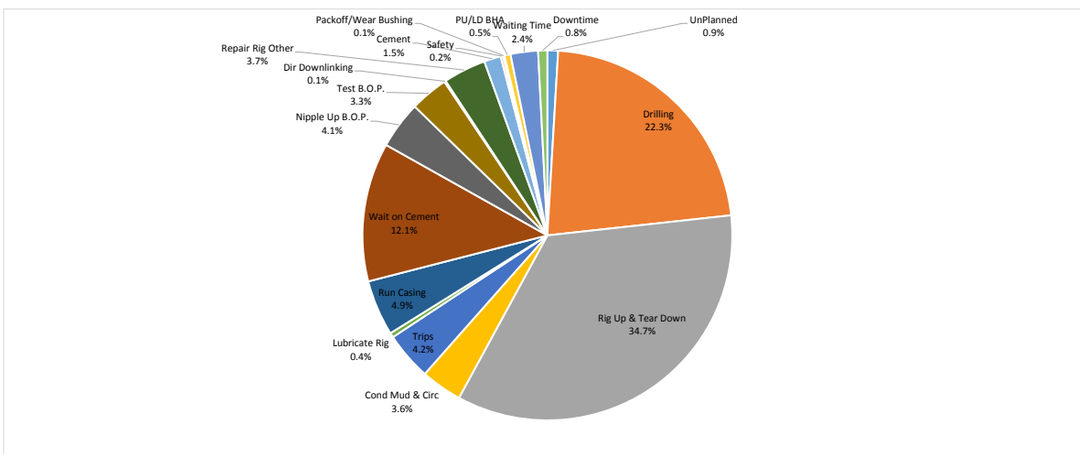
## 24 Hour Summary

Schlumberger monitor cement temp, continue clean mud tanks, & rig down.

## Log of Operations

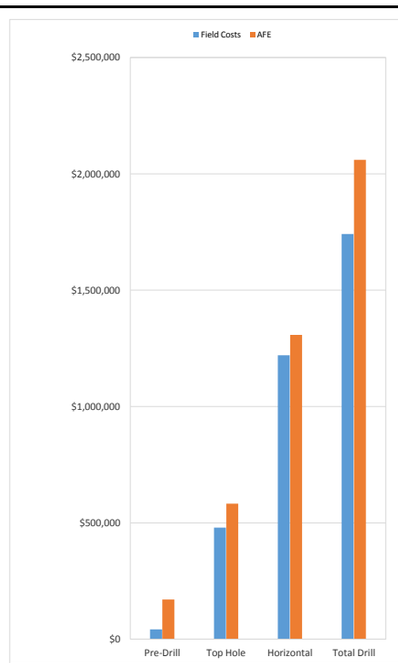
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 06:00 | 24 | Wait on Cement | Schlumberger monitor cement temp, Continue clean mud tanks, Swaco & Newalta tanks, Clean crew washing on rig. Patterson crews rigging down. Drill pipe off location. |
| Total: | | 24 | TD at 6:00 AM: | 13,874 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 3.5 |
| Drilling | 83.75 |
| Rig Up & Tear Down | 130 |
| Cond Mud & Circ | 13.5 |
| Trips | 15.75 |
| Lubricate Rig | 1.5 |
| Run Casing | 18.25 |
| Wait on Cement | 45.5 |
| Nipple Up B.O.P. | 15.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Cement | 5.5 |
| Safety | 0.75 |
| Packoff/Wear Bushing | 0.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 375 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $1,198,033 | Daily Total: | $22,302 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $41,863 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $1,220,335 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,741,453 |




## 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: | 10/2/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 10/2/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,412 | 13,874 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 88 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 35 |

## Casing/Liners

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

## Present Operation at Report Time

Rigging down

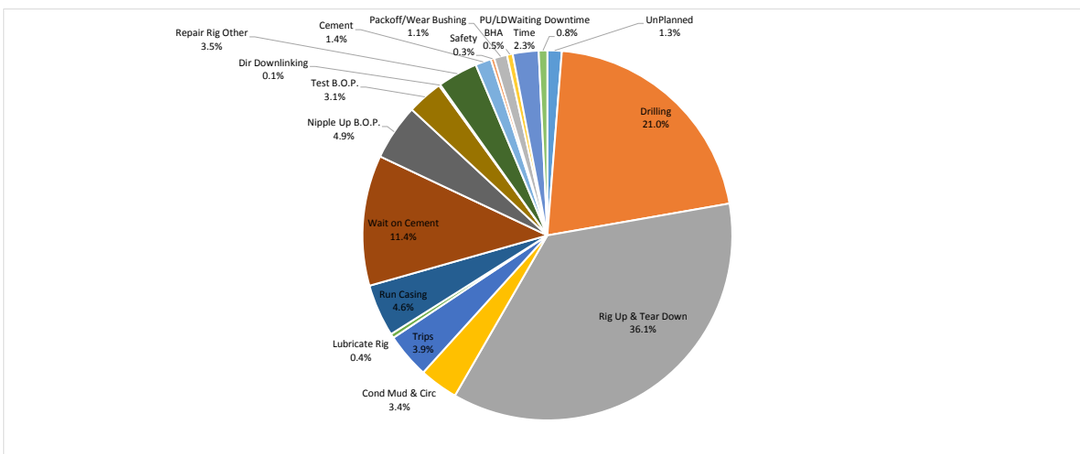
## 24 Hour Summary

Nipple down, set casing slips & pack off, clean pits & rig, continue rig down

## Log of Operations

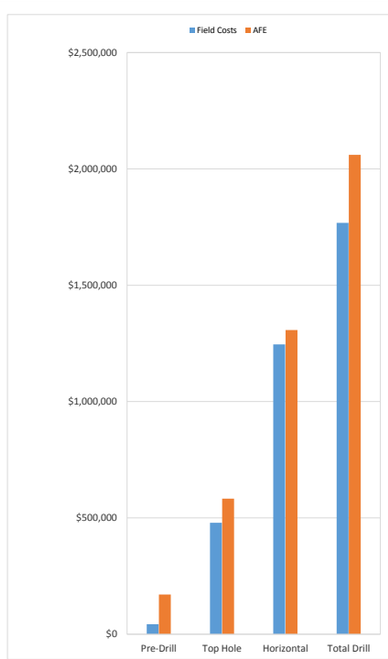
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 06:30 | 0.5 | Safety | Safety meeting with Schlumberger , Cameron, rig crew & NNE rep, discus set pack off & fiber cable. |
| 06:30 | 10:30 | 4 | Nipple Up B.O.P. | Cut fiber wire, & start nipple down, (Cut flow line nipple to lift stack higher) Continue nipple down & lift BOPS. |
| 10:30 | 11:30 | 1 | Packoff/Wear Bushing | Cameron set slips, Make rough cut, Pull fiber cable through stack to cellar, Remove DSA. |
| 11:30 | 14:30 | 3 | Packoff/Wear Bushing | Strip fiber cable, coil around casing above slips, Set pack off (feeding fiber wire trough port) TQ pack off. |
| 14:30 | 16:00 | 1.5 | UnPlanned | Attempt to test pack off Schlumbergers control block not sealing to Cameron head , (found Schlumburger control block & Cameron head not compatible should have all worked out by tomorrow) |
| 16:00 | 06:00 | 14 | Rig Up & Tear Down | Continue with rig down. Cleaning pits & rig to meet stack out standards. |
| Total: | | 24 | TD at 6:00 AM: | 13,874 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 5 |
| Drilling | 83.75 |
| Rig Up & Tear Down | 144 |
| Cond Mud & Circ | 13.5 |
| Trips | 15.75 |
| Lubricate Rig | 1.5 |
| Run Casing | 18.25 |
| Wait on Cement | 45.5 |
| Nipple Up B.O.P. | 19.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Cement | 5.5 |
| Safety | 1.25 |
| Packoff/Wear Bushing | 4.5 |
| PU/LD BHA | 2 |
| Waiting Time | 9 |
| Downtime | 3 |
| Total Hours | 399 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $1,219,001 | Daily Total: | $26,755 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $43,197 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $1,245,756 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,768,208 |




## 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: | 10/3/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 10/3/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,412 | 13,874 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 89 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 36 |

## Casing/Liners

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

## Present Operation at Report Time

Safety meeting

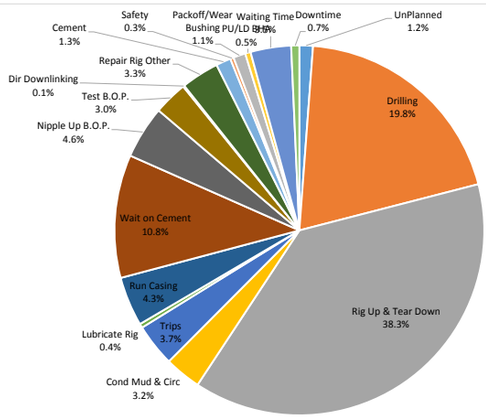
## 24 Hour Summary

Rig down 80% . Swaco & Newalta equipment off location, move 4 rig loads, wash on rig (Fiber line & night cap secure & tested)

## Log of Operations

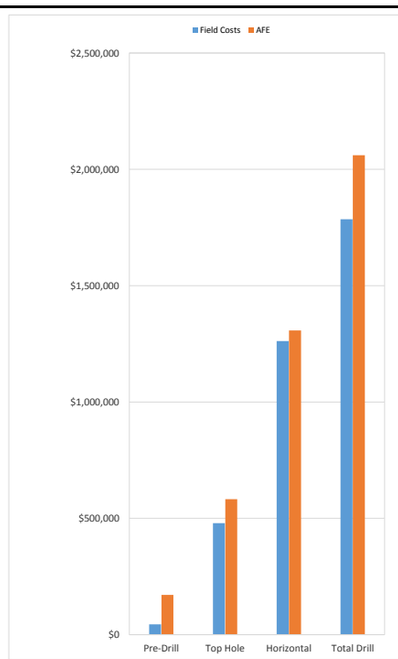
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 20:00 | 14 | Rig Up & Tear Down | ( Wait on gray lock adapter for fiber wire) Wash on rig, rigging down, load out all Swaco & Newalta equipment & 4 rig loads |
| 20:00 | 00:00 | 4 | Rig Up & Tear Down | Schlumberger install gray lock adapter & fiber wire & test same. Rig crew work to midnight to break tower ( Will work 2 crews on days) ( third party washing rig floor & subs) |
| 00:00 | 06:00 | 6 | Waiting Time | Wait on daylight ( third party wash on subs) |
| Total: | | 24 | TD at 6:00 AM: | 13,874 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 5 |
| Drilling | 83.75 |
| Rig Up & Tear Down | 162 |
| Cond Mud & Circ | 13.5 |
| Trips | 15.75 |
| Lubricate Rig | 1.5 |
| Run Casing | 18.25 |
| Wait on Cement | 45.5 |
| Nipple Up B.O.P. | 19.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Cement | 5.5 |
| Safety | 1.25 |
| Packoff/Wear Bushing | 4.5 |
| PU/LD BHA | 2 |
| Waiting Time | 15 |
| Downtime | 3 |
| Total Hours | 423 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $1,244,422 | Daily Total: | $17,574 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $44,531 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $1,261,995 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,785,781 |




## 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: | 10/4/2015 |

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# Executive Drilling Report - MIP 3H

| Date: | 10/4/2015 |
|---|---|

## Location Information

| State | County | Township/City | Elevation | Latitude | Longitude |
|---|---|---|---|---|---|
| WV | Monongalia | Morgantown | 1058 | 39.601783 | 79.976335 |
| Weather: | | | | | |

## Well Information

| Lease | Well No. | Field | Drilling Contractor | Rig | KB |
|---|---|---|---|---|---|
| MIP | 3H | Morgantown | Patterson | 254 | 14 |

| API/Permit Number | Target TD | TVD (ft) | MD (ft) | 24-Hr Footage (ft) |
|---|---|---|---|---|
| 47-061-01707 | 6,900 | 7,412 | 13,874 | |

| Current Section of Well | Vertical Spud Date: | 7/7/2015 | Days From Vertical: | 90 |
|---|---|---|---|---|
| Curve | Horizontal Spud Date: | 8/29/2015 | Days From Horizontal: | 37 |

## Casing/Liners

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

## Present Operation at Report Time

Safety meeting

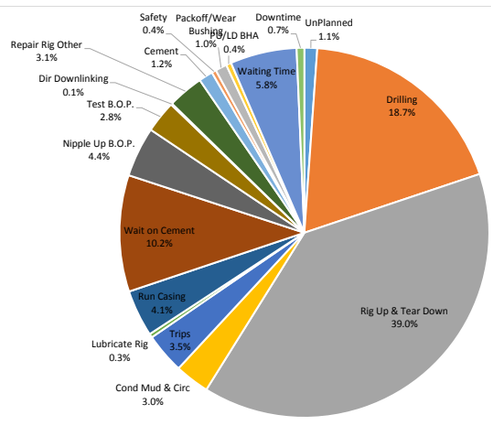
## 24 Hour Summary

Rig down & start rig move, 90% rigged down, 40% moved (Hauled 20 loads)

## Log of Operations

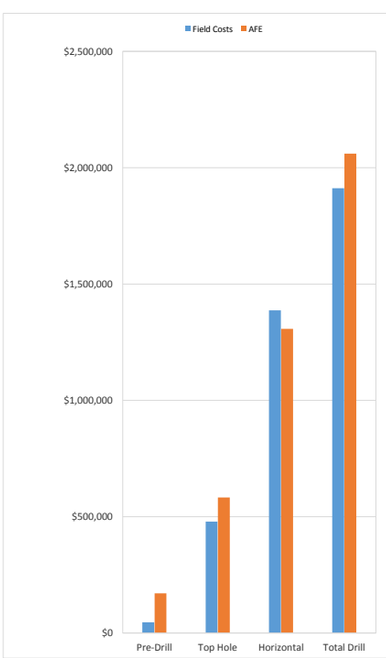
| From | To | Hours | Time Code | Activity |
|---|---|---|---|---|
| 06:00 | 06:30 | 0.5 | Safety | Safety meeting with rig crews, rig movers & NNE rep. |
| 06:30 | 19:00 | 12.5 | Rig Up & Tear Down | Rig down & load out Patterson 254, Moved 20 loads, 90% rigged down & 40% moved. |
| 19:00 | 06:00 | 11 | Waiting Time | Wait on daylight working 2 crews on days (Third party washing rig) |
| Total: | | 24 | TD at 6:00 AM: | 13,874 feet |

| Activity Code | Total Hrs |
|---|---|
| UnPlanned | 5 |
| Drilling | 83.75 |
| Rig Up & Tear Down | 174.5 |
| Cond Mud & Circ | 13.5 |
| Trips | 15.75 |
| Lubricate Rig | 1.5 |
| Run Casing | 18.25 |
| Wait on Cement | 45.5 |
| Nipple Up B.O.P. | 19.5 |
| Test B.O.P. | 12.5 |
| Dir Downlinking | 0.5 |
| Repair Rig Other | 14 |
| Cement | 5.5 |
| Safety | 1.75 |
| Packoff/Wear Bushing | 4.5 |
| PU/LD BHA | 2 |
| Waiting Time | 26 |
| Downtime | 3 |
| Total Hours | 447 |




## Total Cost

| | | | |
|---|---|---|---|
| Previous Day's Cumulative: | $1,260,661 | Daily Total: | $126,131 |
| Pre-Drill AFE Amt: | $170,500 | Cumulative Pre-Drill Cost: | $45,865 |
| Top Hole Drilling AFE Amt: | $582,400 | Cumulative Top Hole Cost: | $479,255 |
| Horizontal Drilling AFE Amt: | $1,307,500 | Cumulative Horizontal Cost: | $1,386,792 |
| Cumulative Well AFE Amt: | $2,060,400 | Cumulative Well Cost: | $1,911,912 |




## 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: | 10/5/2015 |

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