



Enduring Resources II, LLC  
511 16th St - Suite 700  
Denver, CO 80202  
(303) 573-1222

# Wellwork Chronological Regulatory Report

## Well Name: UNIVERSITY 09 #1803H

Field:	Lin (Wolfcamp)	S/T/R:	/ /	County, State:	
Location Desc:					
Operator:	Enduring Resources, LLC	Project Type:	Completion	District:	Southern
Project AFE:	DV02028	AFE's Associated:	/ / /	API:	
Supervisor:		Phone:			
Production Cur/Exp   Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

### Daily Summary

Activity Date:	4/8/2014	Days on Compl:	2	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Waiting on service companies to arrive Rig up frac sleeve, well head, flowcross, flow back equipment, wireline, and pumps. Waiting for wireline unit to finish logging the 09-1825H. RIH to 8,179' and log out. Cement top was seen at 6,400'. Rig down for the day. Well shut in till next morning.				

### Daily Summary

Activity Date:	4/9/2014	Days on Compl:	3	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Went over daily activities that are to be performed & to pay attention to high pressure lines and have clear communication. No speeding on lease roads. Pressure test flow cross, pump iron and choke manifold, pressure test held at 8000psi Broke down shoe @ 4bbl/min at 5800psi then fell to 3500psi & pumped 350bbl. Well stabilized at 2300psi Rig in wireline Unit, opened well up @ 2300psi RIH and set bridge plug at 13740', weight change of 150lbs. Conducted pressure test to 8250psi for 15 minutes. P/U and shot perms at 13730, 13705, 13680, 13655, and 13630. POOH and CCL Rig down pump and wireline unit. Well shut in till frac.				

### Daily Summary

Activity Date:	4/15/2014	Days on Compl:	9	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:					

### Daily Summary

Activity Date:	4/21/2014	Days on Compl:	15	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	UL-09-1803H Moved in frac and wireline. RU to well. Pressure Test Safety meeting discussed max pressure and frac run down, wireline operation, water transfer operations Start Frac stage 1				

### Daily Summary

Activity Date:	4/22/2014	Days on Compl:	16	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Remarks				



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## 24 hour Summary

"Location:  
University Land 09 #1803H Stage 1 of 40 Date:  
04/21/14 Start – 04:05  
End – 05:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1176 PSI  
Ball Seat Volume - BBLS  
Initial Breakdown 4350 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 7210 PSI  
Pad Volume 337 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 97000 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 142920 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 20000 LBS

Flush 366 BBLS  
ISIP 2452 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2315 PSI  
Total proppant 259920 LBS  
Total fluid to recover 6976 BBLS  
Total fresh water 4839 BBLS  
Total produced fluid 2137 BBLS  
Average Rate 68 BPM  
Average Pressure 6139 PSI  
Max Pressure 6955 PSI  
Stage Comments:"  
Wireline stage 2 pumped a total of 210 bbls with a maximum pumping pressure of 3275 psi set the plug at a depth of 13605 perforations from : 13590  
-13591.3, 13563-13564.3, 13530-13531.3, 13497-13498.3, 13464-13465.3

"Location:  
University Land 09 #1803H Stage 2 of 40 Date:  
04/21/14 Start – 07:10  
End – 09:04  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1526 PSI  
Ball Seat Volume 253 BBLS  
Initial Breakdown 4736 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6870 PSI  
Pad Volume 234 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 46660 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 255388 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 362 BBLS  
ISIP 2623 PSI  
Frac Gradient .77 Psi/ft  
5min drop 1965 PSI  
Total proppant 342268 LBS  
Total fluid to recover 5530 BBLS  
Total fresh water 2524 BBLS  
Total produced fluid 3006 BBLS  
Average Rate 67.9 BPM  
Average Pressure 6310 PSI  
Max Pressure 6783 PSI  
Stage Comments:"  
Wireline stage 3 pumped a total of 179 bbls with a maximum pumping pressure of 3070 psi set the plug at a depth of 13442 perforations from : 13430  
-13431.3, 13397-13398.3, 13364-13365.3, 13334-13335.3, 13298-13299.3

"Location:  
University Land 09 #1803H Stage 3 of 40 Date:  
04/21/14 Start – 10:14  
End – 12:31  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1536 PSI  
Ball Seat Volume 2543 BBLS



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Initial Breakdown 2523 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6752 PSI  
Pad Volume 216 BBLS

100 Mesh sand Stages .5-1.25 PPA  
Total 100 Mesh Pumped 49880 LBS

Ottawa 40/70 sand stages 1-2 PPA  
Total Ottawa 40/70 248640 BBLS

Garnet RCS 40/70 sand stages 2.25 PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 359 BBLS  
ISIP 3016 PSI  
Frac Gradient .82 Psi/ft  
5min drop 1945 PSI  
Total proppant 338600 LBS  
Total fluid to recover 6753 BBLS  
Total fresh water 2966 BBLS  
Total produced fluid 1029 BBLS  
Average Rate 66.6 BPM  
Average Pressure 6560 PSI  
Max Pressure 7136 PSI  
Stage Comments:"  
Wireline stage 4 pumped a total of 187 bbls with a maximum pumping pressure of 4100 psi set the plug at a depth of 13265 perforations from : 13250-13251.3, 13231-13232.3, 13201-13202.3, 13165-13166.3, 13132-13133.3  
"Location:  
University Land 09 #1803H Stage 4 of 40 Date:  
04/21/14 Start – 13:36  
End – 15:56  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1601 PSI  
Ball Seat Volume 231 BBLS  
Initial Breakdown 4405 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6670 PSI  
Pad Volume 251 BBLS

100 Mesh sand Stages 0.50—1.25 PPA  
Total 100 Mesh Pumped 49320 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 239280 BBLS

Garnet RCS 40/70 sand stages 2.00 PPA  
Total Garnet RCS 40/70 41920 LBS

Flush 355 BBLS  
ISIP 2542 PSI  
Frac Gradient 0.76 Psi/ft  
5min drop 1920 PSI  
Total proppant 330520 LBS  
Total fluid to recover 6760 BBLS  
Total fresh water 2673 BBLS  
Total produced fluid 4087 BBLS  
Average Rate 64.4 BPM  
Average Pressure 6736 PSI  
Max Pressure 7506 PSI  
Stage Comments:"  
Wireline stage 5 pumped a total of 180 bbls with a maximum pumping pressure of 3484 psi set the plug at a depth of 13090 perforations from : 13075-13076.3, 13050-13051.3, 13032-13033.3, 12999-13000.3, 12966-12967.3  
"Location:  
University Land 09 #1803H Stage 5 of 40 Date:  
04/21/14 Start –17:07  
End – 19:19  
Consultant:  
Randy Hagen Service Company:  
UPP Treater:  
Brian Falls  
Initial Well-Head Pressure 1570 PSI  
Ball Seat Volume 244 BBLS  
Initial Breakdown 4822 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6305 PSI  
Pad Volume 327 BBLS

100 Mesh sand Stages 0.50—1.00 PPA  
Total 100 Mesh Pumped 48040 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 241580 BBLS



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Garnet RCS 40/70 sand stages 1.75 PPA  
Total Garnet RCS 40/70 40540 LBS

Flush 351 BBLS  
ISIP 2409 PSI  
Frac Gradient 0.74 Psi/ft  
5min drop 1975 PSI  
Total proppant 330160 LBS  
Total fluid to recover 7157 BBLS  
Total fresh water 2160 BBLS  
Total produced fluid 4997 BBLS  
Average Rate 68.2 BPM  
Average Pressure 6045 PSI  
Max Pressure 6938 PSI  
Stage Comments:"

Wireline stage 6 pumped a total of 175 bbls with a maximum pumping pressure of 3001 psi set the plug at a depth of 12946 perforations from : 12932-12933.3, 12899-12900.3, 12866-12867.3, 12833-12834.3, 12798-12799.3

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -20:21

End - 22:31

Consultant:

Randy Hagen / Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1608 PSI

Ball Seat Volume 223 BBLS

Initial Breakdown 4512 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 7,020 PSI

Pad Volume 402 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48,100 LBS

Ottawa 40/70 sand stages .75-2.25 ppg PPA  
Total Ottawa 40/70 240,460 BBLS

Garnet RCS 40/70 sand stages 2.25 ppg PPA  
Total Garnet RCS 40/70 40,940 LBS

Flush 347 BBLS  
ISIP 2,771 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2,061 PSI  
Total proppant 329,500 LBS  
Total fluid to recover 6,806 BBLS  
Total fresh water 3,648 BBLS  
Total produced fluid 3,158 BBLS  
Average Rate 68 BPM  
Average Pressure 6,206 PSI  
Max Pressure 6,747 PSI  
Stage Comments:"

Wireline Stage 7 pumped a total of 184 bbls with a maximum pumping pressure of 3,347 psi set the plug on depth at 12,780 ft perforations from:12630-12631.30, 12667-12668.15, 12700-12701.15, 12733-12734.15, 12766-12767

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -23:36

End - 01:51

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1,802 PSI

Ball Seat Volume 232 BBLS

Initial Breakdown 5,117 PSI

Acid Volume (7.5% HCL) 52 BBLS

Acid Break Down 6,750 PSI

Pad Volume 431 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,420 LBS

Ottawa 40/70 sand stages 1.00-2.00 ppg PPA  
Total Ottawa 40/70 238,040 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39,680 LBS

Flush 343 BBLS  
ISIP 2,501 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2,040 PSI  
Total proppant 326,140 LBS  
Total fluid to recover 7,037 BBLS



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Total fresh water 2,193 BBLS  
Total produced fluid 4,844 BBLS  
Average Rate 67.2 BPM  
Average Pressure 6,082 PSI  
Max Pressure 6,622 PSI  
Stage Comments:"  
Wireline stage 8 pumped a total of 161 bbls of water with a maximum pumping pressure of 3,036 psi set the plug at a depth of 12,614 ft perforations from:12468-12469.30, 12501-12502.15, 12534-12535.15, 12567-12568.15, 12600-12601  
"Location:  
University Land 09 #1803H Stage 8 of 40 Date:  
04/21/14 Start -02:55  
End - 04:55  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1783 PSI  
Ball Seat Volume 232 BBLS  
Initial Breakdown 5117 PSI  
Acid Volume (7.5% HCL) 50 BBLS  
Acid Break Down 6550 PSI  
Pad Volume 281 BBLS  
  
100 Mesh sand Stages 0.5-1.50 ppg PPA  
Total 100 Mesh Pumped 47060 LBS  
  
Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240100 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 ppg PPA  
Total Garnet RCS 40/70 39840 LBS  
  
Flush 339 BBLS  
ISIP 2927 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2079 PSI  
Total proppant 327000 LBS  
Total fluid to recover 5979 BBLS  
Total fresh water 3601 BBLS  
Total produced fluid 2378 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5611 PSI  
Max Pressure 6638 PSI  
Stage Comments:"  
Wireline stage 9 pumped a total of 167 bbls of water with a maximum pumping pressure of 3480 psi set the plug at a depth of 12448 ft perforations from : 12434-12435.3, 12404-12405.3, 12368-12369.3, 12335-12336.3, 12302-12303.3

## Daily Summary

Activity Date:	4/23/2014	Days on Compl:	17	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

### 24 Hour Summary:

Remarks  
"Location:  
University Land 09 #1803H Stage 9 of 40 Date:  
04/22/14 Start - 05:54  
End - 07:51  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1815 PSI  
Ball Seat Volume 225 BBLS  
Initial Breakdown 4409 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6430 PSI  
Pad Volume 156 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48120 LBS  
  
Ottawa 40/70 sand stages 1.00-2.50 PPA  
Total Ottawa 40/70 243700 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 PPA  
Total Garnet RCS 40/70 39520 LBS  
  
Flush 335 BBLS  
ISIP 2808 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2056 PSI  
Total proppant 331340 LBS  
Total fluid to recover 5814 BBLS  
Total fresh water 3649 BBLS  
Total produced fluid 2165 BBLS



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Average Rate 62.5 BPM  
Average Pressure 5644 PSI  
Max Pressure 6712 PSI  
Stage Comments:"  
Wireline stage 10 pumped a total of 166 bbls of water with a maximum pumping pressure of 3375 psi set the plug at a depth of 12282 ft perforations from : 12262-12263.3, 12235-12236.3, 12202-12203.3, 12169-12170.3, 12132-12133.3  
"Location:  
University Land 09 #1803H Stage 10 of 40 Date:  
04/22/14 Start – 08:46  
End – 10:57  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1819 PSI  
Ball Seat Volume 220 BBLS  
Initial Breakdown 5272 PSI  
Acid Volume (7.5% HCL) 41 BBLS  
Acid Break Down 6758 PSI  
Pad Volume 158 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49700 LBS  
  
Ottawa 40/70 sand stages .25-2.25 PPA  
Total Ottawa 40/70 239360 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 332 BBLS  
ISIP 2909 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2089 PSI  
Total proppant 328980 LBS  
Total fluid to recover 6802 BBLS  
Total fresh water 3715 BBLS  
Total produced fluid 3087 BBLS  
Average Rate 64.3 BPM  
Average Pressure 6156 PSI  
Max Pressure 7123 PSI  
Stage Comments:"  
Wireline stage 11 pumped a total of 151 bbls of water with a maximum pumping pressure of 3450 psi set the plug at a depth of 12116 ft perforations from : 12102-12103.3, 12069-12070.3, 12036-12037.3, 12000-12001.3, 11972-11973.3  
"Location:  
University Land 09 #1803H Stage 11 of 40 Date:  
04/22/14 Start – 12:06  
End – 14:03  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1734 PSI  
Ball Seat Volume 215 BBLS  
Initial Breakdown 2345 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6560 PSI  
Pad Volume 131 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49160 LBS  
  
Ottawa 40/70 sand stages .50-3.00 PPA  
Total Ottawa 40/70 237880 BBLS  
  
Garnet RCS 40/70 sand stages 3.25 PPA  
Total Garnet RCS 40/70 38920 LBS  
  
Flush 332 BBLS  
ISIP 3571 PSI  
Frac Gradient .89 Psi/ft  
5min drop 2700 PSI  
Total proppant 352960 LBS  
Total fluid to recover 5992 BBLS  
Total fresh water 1953 BBLS  
Total produced fluid 4039 BBLS  
Average Rate 65.5 BPM  
Average Pressure 5833 PSI  
Max Pressure 6326 PSI  
Stage Comments:"  
Wireline stage 12 pumped a total of 137 bbls of water with a maximum pumping pressure of 4075 psi set the plug at a depth of 11946 ft perforations from : 11932-11933.3, 11903-11904.3, 11870-11871.3, 11840-11841.3, 11804-11805.3  
Greasing the wellhead  
"Location:  
University Land 09 #1803H Stage 12 of 40 Date:  
04/22/14 Start – 15:32



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# Wellwork Chronological Regulatory Report

End – 17:08  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1867 PSI  
Ball Seat Volume 92 BBLS  
Initial Breakdown 4470 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 537 BBLS

100 Mesh sand Stages .50 – 2.00 ppg PPA  
Total 100 Mesh Pumped 49,060 LBS

Ottawa 40/70 sand stages 2.00-2.25 ppg PPA  
Total Ottawa 40/70 238,900 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40,240 LBS

Flush 328 BBLS  
ISIP 3186 PSI  
Frac Gradient .84 Psi/ft  
5min drop 2138 PSI  
Total proppant 328,200 LBS  
Total fluid to recover 5036 BBLS  
Total fresh water 855 BBLS  
Total produced fluid 4181 BBLS  
Average Rate 58.7 BPM  
Average Pressure 5474 PSI  
Max Pressure 6940 PSI  
Stage Comments:"  
Wireline stage 13 pumped a total of 139 bbls of water with a maximum pumping pressure of 3905 psi set the plug at a depth of 11774 ft perforations from : 11638-11639.30, 11671-11672.15, 11707-11708.15, 11737-11738.15, 11760-11761  
"Location:  
University Land 09 #1803H Stage 13 of 40 Date:  
04/22/14 Start – 18:31  
End – 20:49  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1726 PSI  
Ball Seat Volume 196 BBLS  
Initial Breakdown 4955 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 7050 PSI  
Pad Volume 524 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48200 LBS

Ottawa 40/70 sand stages .50-2.25 ppg PPA  
Total Ottawa 40/70 240760 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 41000 LBS

Flush 322 BBLS  
ISIP 2939 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2089 PSI  
Total proppant 329960 LBS  
Total fluid to recover 6922 BBLS  
Total fresh water 2605 BBLS  
Total produced fluid 4317 BBLS  
Average Rate 56 BPM  
Average Pressure 5689 PSI  
Max Pressure 6491 PSI  
Stage Comments:"  
Wireline stage 14 pumped a total of 133 bbls of water with a maximum pumping pressure of 3629 psi set the plug at a depth of 11618 ft perforations from :11472-11473.30, 11505-11506.15, 11538-11539.15, 11571-11572.15, 11604-11605  
"Location:  
University Land 09 #1803H Stage 14 of 40 Date:  
04/22/14 Start – 21:49  
End – 23:50  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1781 PSI  
Ball Seat Volume 199 BBLS  
Initial Breakdown 4810 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6900 PSI



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Pad Volume 540 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48100 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240140 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40060 LBS

Flush 319 BBLS

ISIP 3271 PSI

Frac Gradient .85 Psi/ft

5min drop 1973 PSI

Total proppant 328300 LBS

Total fluid to recover 5704 BBLS

Total fresh water 1922 BBLS

Total produced fluid 3782 BBLS

Average Rate 52.6 BPM

Average Pressure 5248 PSI

Max Pressure 6185 PSI

Stage Comments:"

Wireline stage 15 pumped a total of 138 bbls of water with a maximum pumping pressure of 3577 psi set the plug at a depth of 11452 ft perforations from :11306-11307.30, 11339-11340.15, 11372-11373.15, 11404-11405.15, 11438-11439

"Location:

University Land 09 #1803H Stage 15 of 40 Date:

04/22/14 Start – 12:41

End – 03:06

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1713 PSI

Ball Seat Volume 200 BBLS

Initial Breakdown 4631 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 6400 PSI

Pad Volume 497 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 239960 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39760 LBS

Flush 315 BBLS

ISIP 3492 PSI

Frac Gradient .88 Psi/ft

5min drop 2228 PSI

Total proppant 327940 LBS

Total fluid to recover 7507 BBLS

Total fresh water 5660 BBLS

Total produced fluid 1847 BBLS

Average Rate 60.9 BPM

Average Pressure 6013 PSI

Max Pressure 6862 PSI

Stage Comments:"

Wireline stage 16 pumped a total of 129 bbls of water with a maximum pumping pressure of 4122 psi set the plug at a depth of 11280 ft perforations from: 11140-11141.30, 11173-11174.15, 11206-11207.15, 11239-11240.15, 11266-11267

Start stage 16





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## Well Name: UNIVERSITY 09 #1803H

Field:	Lin (Wolfcamp)	S/T/R:	/ /	County, State:	
Location Desc:					
Operator:	Enduring Resources, LLC	Project Type:	Completion	District:	Southern
Project AFE:	DV02028	AFE's Associated:	/ / /	API:	
Supervisor:		Phone:			
Production Cur/Exp   Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

### Daily Summary

Activity Date:	4/8/2014	Days on Compl:	2	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Waiting on service companies to arrive Rig up frac sleeve, well head, flowcross, flow back equipment, wireline, and pumps. Waiting for wireline unit to finish logging the 09-1825H. RIH to 8,179' and log out. Cement top was seen at 6,400'. Rig down for the day. Well shut in till next morning.				

### Daily Summary

Activity Date:	4/9/2014	Days on Compl:	3	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Went over daily activities that are to be performed & to pay attention to high pressure lines and have clear communication. No speeding on lease roads. Pressure test flow cross, pump iron and choke manifold, pressure test held at 8000psi Broke down shoe @ 4bbl/min at 5800psi then fell to 3500psi & pumped 350bbl. Well stabilized at 2300psi Rig in wireline Unit, opened well up @ 2300psi RIH and set bridge plug at 13740', weight change of 150lbs. Conducted pressure test to 8250psi for 15 minutes. P/U and shot perms at 13730, 13705, 13680, 13655, and 13630. POOH and CCL Rig down pump and wireline unit. Well shut in till frac.				

### Daily Summary

Activity Date:	4/15/2014	Days on Compl:	9	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:					

### Daily Summary

Activity Date:	4/21/2014	Days on Compl:	15	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	UL-09-1803H Moved in frac and wireline. RU to well. Pressure Test Safety meeting discussed max pressure and frac run down, wireline operation, water transfer operations Start Frac stage 1				

### Daily Summary

Activity Date:	4/22/2014	Days on Compl:	16	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Remarks				



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# Wellwork Chronological Regulatory Report

## 24 hour Summary

"Location:  
University Land 09 #1803H Stage 1 of 40 Date:  
04/21/14 Start – 04:05  
End – 05:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1176 PSI  
Ball Seat Volume - BBLS  
Initial Breakdown 4350 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 7210 PSI  
Pad Volume 337 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 97000 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 142920 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 20000 LBS

Flush 366 BBLS  
ISIP 2452 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2315 PSI  
Total proppant 259920 LBS  
Total fluid to recover 6976 BBLS  
Total fresh water 4839 BBLS  
Total produced fluid 2137 BBLS  
Average Rate 68 BPM  
Average Pressure 6139 PSI  
Max Pressure 6955 PSI  
Stage Comments:"  
Wireline stage 2 pumped a total of 210 bbls with a maximum pumping pressure of 3275 psi set the plug at a depth of 13605 perforations from : 13590  
-13591.3, 13563-13564.3, 13530-13531.3, 13497-13498.3, 13464-13465.3

"Location:  
University Land 09 #1803H Stage 2 of 40 Date:  
04/21/14 Start – 07:10  
End – 09:04  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1526 PSI  
Ball Seat Volume 253 BBLS  
Initial Breakdown 4736 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6870 PSI  
Pad Volume 234 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 46660 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 255388 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 362 BBLS  
ISIP 2623 PSI  
Frac Gradient .77 Psi/ft  
5min drop 1965 PSI  
Total proppant 342268 LBS  
Total fluid to recover 5530 BBLS  
Total fresh water 2524 BBLS  
Total produced fluid 3006 BBLS  
Average Rate 67.9 BPM  
Average Pressure 6310 PSI  
Max Pressure 6783 PSI  
Stage Comments:"  
Wireline stage 3 pumped a total of 179 bbls with a maximum pumping pressure of 3070 psi set the plug at a depth of 13442 perforations from : 13430  
-13431.3, 13397-13398.3, 13364-13365.3, 13334-13335.3, 13298-13299.3

"Location:  
University Land 09 #1803H Stage 3 of 40 Date:  
04/21/14 Start – 10:14  
End – 12:31  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1536 PSI  
Ball Seat Volume 2543 BBLS



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Initial Breakdown 2523 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6752 PSI  
Pad Volume 216 BBLS

100 Mesh sand Stages .5-1.25 PPA  
Total 100 Mesh Pumped 49880 LBS

Ottawa 40/70 sand stages 1-2 PPA  
Total Ottawa 40/70 248640 BBLS

Garnet RCS 40/70 sand stages 2.25 PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 359 BBLS  
ISIP 3016 PSI  
Frac Gradient .82 Psi/ft  
5min drop 1945 PSI  
Total proppant 338600 LBS  
Total fluid to recover 6753 BBLS  
Total fresh water 2966 BBLS  
Total produced fluid 1029 BBLS  
Average Rate 66.6 BPM  
Average Pressure 6560 PSI  
Max Pressure 7136 PSI  
Stage Comments:"  
Wireline stage 4 pumped a total of 187 bbls with a maximum pumping pressure of 4100 psi set the plug at a depth of 13265 perforations from : 13250-13251.3, 13231-13232.3, 13201-13202.3, 13165-13166.3, 13132-13133.3  
"Location:  
University Land 09 #1803H Stage 4 of 40 Date:  
04/21/14 Start – 13:36  
End – 15:56  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1601 PSI  
Ball Seat Volume 231 BBLS  
Initial Breakdown 4405 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6670 PSI  
Pad Volume 251 BBLS

100 Mesh sand Stages 0.50—1.25 PPA  
Total 100 Mesh Pumped 49320 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 239280 BBLS

Garnet RCS 40/70 sand stages 2.00 PPA  
Total Garnet RCS 40/70 41920 LBS

Flush 355 BBLS  
ISIP 2542 PSI  
Frac Gradient 0.76 Psi/ft  
5min drop 1920 PSI  
Total proppant 330520 LBS  
Total fluid to recover 6760 BBLS  
Total fresh water 2673 BBLS  
Total produced fluid 4087 BBLS  
Average Rate 64.4 BPM  
Average Pressure 6736 PSI  
Max Pressure 7506 PSI  
Stage Comments:"  
Wireline stage 5 pumped a total of 180 bbls with a maximum pumping pressure of 3484 psi set the plug at a depth of 13090 perforations from : 13075-13076.3, 13050-13051.3, 13032-13033.3, 12999-13000.3, 12966-12967.3  
"Location:  
University Land 09 #1803H Stage 5 of 40 Date:  
04/21/14 Start –17:07  
End – 19:19  
Consultant:  
Randy Hagen Service Company:  
UPP Treater:  
Brian Falls  
Initial Well-Head Pressure 1570 PSI  
Ball Seat Volume 244 BBLS  
Initial Breakdown 4822 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6305 PSI  
Pad Volume 327 BBLS

100 Mesh sand Stages 0.50—1.00 PPA  
Total 100 Mesh Pumped 48040 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 241580 BBLS



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# Wellwork Chronological Regulatory Report

Garnet RCS 40/70 sand stages 1.75 PPA  
Total Garnet RCS 40/70 40540 LBS

Flush 351 BBLS  
ISIP 2409 PSI  
Frac Gradient 0.74 Psi/ft  
5min drop 1975 PSI  
Total proppant 330160 LBS  
Total fluid to recover 7157 BBLS  
Total fresh water 2160 BBLS  
Total produced fluid 4997 BBLS  
Average Rate 68.2 BPM  
Average Pressure 6045 PSI  
Max Pressure 6938 PSI  
Stage Comments:"

Wireline stage 6 pumped a total of 175 bbls with a maximum pumping pressure of 3001 psi set the plug at a depth of 12946 perforations from : 12932-12933.3, 12899-12900.3, 12866-12867.3, 12833-12834.3, 12798-12799.3

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -20:21

End - 22:31

Consultant:

Randy Hagen / Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1608 PSI

Ball Seat Volume 223 BBLS

Initial Breakdown 4512 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 7,020 PSI

Pad Volume 402 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48,100 LBS

Ottawa 40/70 sand stages .75-2.25 ppg PPA  
Total Ottawa 40/70 240,460 BBLS

Garnet RCS 40/70 sand stages 2.25 ppg PPA  
Total Garnet RCS 40/70 40,940 LBS

Flush 347 BBLS  
ISIP 2,771 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2,061 PSI  
Total proppant 329,500 LBS  
Total fluid to recover 6,806 BBLS  
Total fresh water 3,648 BBLS  
Total produced fluid 3,158 BBLS  
Average Rate 68 BPM  
Average Pressure 6,206 PSI  
Max Pressure 6,747 PSI  
Stage Comments:"

Wireline Stage 7 pumped a total of 184 bbls with a maximum pumping pressure of 3,347 psi set the plug on depth at 12,780 ft perforations from:12630-12631.30, 12667-12668.15, 12700-12701.15, 12733-12734.15, 12766-12767

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -23:36

End - 01:51

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1,802 PSI

Ball Seat Volume 232 BBLS

Initial Breakdown 5,117 PSI

Acid Volume (7.5% HCL) 52 BBLS

Acid Break Down 6,750 PSI

Pad Volume 431 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,420 LBS

Ottawa 40/70 sand stages 1.00-2.00 ppg PPA  
Total Ottawa 40/70 238,040 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39,680 LBS

Flush 343 BBLS  
ISIP 2,501 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2,040 PSI  
Total proppant 326,140 LBS  
Total fluid to recover 7,037 BBLS



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# Wellwork Chronological Regulatory Report

Total fresh water 2,193 BBLS  
Total produced fluid 4,844 BBLS  
Average Rate 67.2 BPM  
Average Pressure 6,082 PSI  
Max Pressure 6,622 PSI  
Stage Comments:"  
Wireline stage 8 pumped a total of 161 bbls of water with a maximum pumping pressure of 3,036 psi set the plug at a depth of 12,614 ft perforations from:12468-12469.30, 12501-12502.15, 12534-12535.15, 12567-12568.15, 12600-12601  
"Location:  
University Land 09 #1803H Stage 8 of 40 Date:  
04/21/14 Start -02:55  
End - 04:55  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Falls  
Initial Well-Head Pressure 1783 PSI  
Ball Seat Volume 232 BBLS  
Initial Breakdown 5117 PSI  
Acid Volume (7.5% HCL) 50 BBLS  
Acid Break Down 6550 PSI  
Pad Volume 281 BBLS  
  
100 Mesh sand Stages 0.5-1.50 ppg PPA  
Total 100 Mesh Pumped 47060 LBS  
  
Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240100 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 ppg PPA  
Total Garnet RCS 40/70 39840 LBS  
  
Flush 339 BBLS  
ISIP 2927 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2079 PSI  
Total proppant 327000 LBS  
Total fluid to recover 5979 BBLS  
Total fresh water 3601 BBLS  
Total produced fluid 2378 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5611 PSI  
Max Pressure 6638 PSI  
Stage Comments:"  
Wireline stage 9 pumped a total of 167 bbls of water with a maximum pumping pressure of 3480 psi set the plug at a depth of 12448 ft perforations from : 12434-12435.3, 12404-12405.3, 12368-12369.3, 12335-12336.3, 12302-12303.3

## Daily Summary

Activity Date:	4/23/2014	Days on Compl:	17	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks  
"Location:  
University Land 09 #1803H Stage 9 of 40 Date:  
04/22/14 Start - 05:54  
End - 07:51  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1815 PSI  
Ball Seat Volume 225 BBLS  
Initial Breakdown 4409 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6430 PSI  
Pad Volume 156 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48120 LBS  
  
Ottawa 40/70 sand stages 1.00-2.50 PPA  
Total Ottawa 40/70 243700 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 PPA  
Total Garnet RCS 40/70 39520 LBS  
  
Flush 335 BBLS  
ISIP 2808 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2056 PSI  
Total proppant 331340 LBS  
Total fluid to recover 5814 BBLS  
Total fresh water 3649 BBLS  
Total produced fluid 2165 BBLS



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Average Rate 62.5 BPM  
Average Pressure 5644 PSI  
Max Pressure 6712 PSI  
Stage Comments:"  
Wireline stage 10 pumped a total of 166 bbls of water with a maximum pumping pressure of 3375 psi set the plug at a depth of 12282 ft perforations from : 12262-12263.3, 12235-12236.3, 12202-12203.3, 12169-12170.3, 12132-12133.3  
"Location:  
University Land 09 #1803H Stage 10 of 40 Date:  
04/22/14 Start – 08:46  
End – 10:57  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1819 PSI  
Ball Seat Volume 220 BBLS  
Initial Breakdown 5272 PSI  
Acid Volume (7.5% HCL) 41 BBLS  
Acid Break Down 6758 PSI  
Pad Volume 158 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49700 LBS  
  
Ottawa 40/70 sand stages .25-2.25 PPA  
Total Ottawa 40/70 239360 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 332 BBLS  
ISIP 2909 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2089 PSI  
Total proppant 328980 LBS  
Total fluid to recover 6802 BBLS  
Total fresh water 3715 BBLS  
Total produced fluid 3087 BBLS  
Average Rate 64.3 BPM  
Average Pressure 6156 PSI  
Max Pressure 7123 PSI  
Stage Comments:"  
Wireline stage 11 pumped a total of 151 bbls of water with a maximum pumping pressure of 3450 psi set the plug at a depth of 12116 ft perforations from : 12102-12103.3, 12069-12070.3, 12036-12037.3, 12000-12001.3, 11972-11973.3  
"Location:  
University Land 09 #1803H Stage 11 of 40 Date:  
04/22/14 Start – 12:06  
End – 14:03  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1734 PSI  
Ball Seat Volume 215 BBLS  
Initial Breakdown 2345 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6560 PSI  
Pad Volume 131 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49160 LBS  
  
Ottawa 40/70 sand stages .50-3.00 PPA  
Total Ottawa 40/70 237880 BBLS  
  
Garnet RCS 40/70 sand stages 3.25 PPA  
Total Garnet RCS 40/70 38920 LBS  
  
Flush 332 BBLS  
ISIP 3571 PSI  
Frac Gradient .89 Psi/ft  
5min drop 2700 PSI  
Total proppant 352960 LBS  
Total fluid to recover 5992 BBLS  
Total fresh water 1953 BBLS  
Total produced fluid 4039 BBLS  
Average Rate 65.5 BPM  
Average Pressure 5833 PSI  
Max Pressure 6326 PSI  
Stage Comments:"  
Wireline stage 12 pumped a total of 137 bbls of water with a maximum pumping pressure of 4075 psi set the plug at a depth of 11946 ft perforations from : 11932-11933.3, 11903-11904.3, 11870-11871.3, 11840-11841.3, 11804-11805.3  
Greasing the wellhead  
"Location:  
University Land 09 #1803H Stage 12 of 40 Date:  
04/22/14 Start – 15:32



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# Wellwork Chronological Regulatory Report

End – 17:08  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1867 PSI  
Ball Seat Volume 92 BBLS  
Initial Breakdown 4470 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 537 BBLS

100 Mesh sand Stages .50 – 2.00 ppg PPA  
Total 100 Mesh Pumped 49,060 LBS

Ottawa 40/70 sand stages 2.00-2.25 ppg PPA  
Total Ottawa 40/70 238,900 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40,240 LBS

Flush 328 BBLS  
ISIP 3186 PSI  
Frac Gradient .84 Psi/ft  
5min drop 2138 PSI  
Total proppant 328,200 LBS  
Total fluid to recover 5036 BBLS  
Total fresh water 855 BBLS  
Total produced fluid 4181 BBLS  
Average Rate 58.7 BPM  
Average Pressure 5474 PSI  
Max Pressure 6940 PSI  
Stage Comments:"  
Wireline stage 13 pumped a total of 139 bbls of water with a maximum pumping pressure of 3905 psi set the plug at a depth of 11774 ft perforations from : 11638-11639.30, 11671-11672.15, 11707-11708.15, 11737-11738.15, 11760-11761  
"Location:  
University Land 09 #1803H Stage 13 of 40 Date:  
04/22/14 Start – 18:31  
End – 20:49  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1726 PSI  
Ball Seat Volume 196 BBLS  
Initial Breakdown 4955 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 7050 PSI  
Pad Volume 524 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48200 LBS

Ottawa 40/70 sand stages .50-2.25 ppg PPA  
Total Ottawa 40/70 240760 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 41000 LBS

Flush 322 BBLS  
ISIP 2939 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2089 PSI  
Total proppant 329960 LBS  
Total fluid to recover 6922 BBLS  
Total fresh water 2605 BBLS  
Total produced fluid 4317 BBLS  
Average Rate 56 BPM  
Average Pressure 5689 PSI  
Max Pressure 6491 PSI  
Stage Comments:"  
Wireline stage 14 pumped a total of 133 bbls of water with a maximum pumping pressure of 3629 psi set the plug at a depth of 11618 ft perforations from :11472-11473.30, 11505-11506.15, 11538-11539.15, 11571-11572.15, 11604-11605  
"Location:  
University Land 09 #1803H Stage 14 of 40 Date:  
04/22/14 Start – 21:49  
End – 23:50  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1781 PSI  
Ball Seat Volume 199 BBLS  
Initial Breakdown 4810 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6900 PSI



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Pad Volume 540 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48100 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240140 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40060 LBS

Flush 319 BBLS  
ISIP 3271 PSI  
Frac Gradient .85 Psi/ft  
5min drop 1973 PSI  
Total proppant 328300 LBS  
Total fluid to recover 5704 BBLS  
Total fresh water 1922 BBLS  
Total produced fluid 3782 BBLS  
Average Rate 52.6 BPM  
Average Pressure 5248 PSI  
Max Pressure 6185 PSI  
Stage Comments:"  
Wireline stage 15 pumped a total of 138 bbls of water with a maximum pumping pressure of 3577 psi set the plug at a depth of 11452 ft perforations from :11306-11307.30, 11339-11340.15, 11372-11373.15, 11404-11405.15, 11438-11439  
"Location:  
University Land 09 #1803H Stage 15 of 40 Date:  
04/22/14 Start – 12:41  
End – 03:06  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1713 PSI  
Ball Seat Volume 200 BBLS  
Initial Breakdown 4631 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 497 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 239960 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39760 LBS

Flush 315 BBLS  
ISIP 3492 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2228 PSI  
Total proppant 327940 LBS  
Total fluid to recover 7507 BBLS  
Total fresh water 5660 BBLS  
Total produced fluid 1847 BBLS  
Average Rate 60.9 BPM  
Average Pressure 6013 PSI  
Max Pressure 6862 PSI  
Stage Comments:"  
Wireline stage 16 pumped a total of 129 bbls of water with a maximum pumping pressure of 4122 psi set the plug at a depth of 11280 ft perforations from: 11140-11141.30, 11173-11174.15, 11206-11207.15, 11239-11240.15, 11266-11267  
Start stage 16

## Daily Summary

Activity Date:	4/24/2014	Days on Compl:	18	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks  
"Location:  
University Land 09 #1803H Stage 16 of 40 Date:  
04/23/14 Start – 04:04  
End – 05:50  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1977 PSI  
Ball Seat Volume 201 BBLS  
Initial Breakdown 4513 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6420 PSI  
Pad Volume 106 BBLS





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100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48000 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 238400 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40780 LBS

Flush 308 BBLs  
ISIP 2889 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2082 PSI  
Total proppant 327180 LBS  
Total fluid to recover 5338 BBLs  
Total fresh water 3689 BBLs  
Total produced fluid 1649 BBLs  
Average Rate 62.1 BPM  
Average Pressure 5487 PSI  
Max Pressure 6494 PSI  
Stage Comments:"

Wireline stage 17 pumped a total of 113 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 11116 ft perforations from : 11100-11101.3, 11073-11074.3, 11040-11041.3, 11007-11008.3, 10974-10975.3

"Location:

University Land 09 #1803H Stage 17 of 40 Date:

04/23/14 Start – 06:49

End – 08:30

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1794 PSI

Ball Seat Volume 193 BBLs

Initial Breakdown 4645 PSI

Acid Volume (7.5% HCL) 40 BBLs

Acid Break Down 6890 PSI

Pad Volume 158 BBLs

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47440 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239500 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40140 LBS

Flush 305 BBLs  
ISIP 4500 PSI  
Frac Gradient 1.01 Psi/ft  
5min drop 2312 PSI  
Total proppant 327080 LBS  
Total fluid to recover 4958 BBLs  
Total fresh water 3492 BBLs  
Total produced fluid 1466 BBLs  
Average Rate 66.5 BPM  
Average Pressure 5809 PSI  
Max Pressure 7615 PSI  
Stage Comments:"

Wireline stage 18 pumped a total of 114 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10954 ft perforations from : 10940-10941.3, 10907-10908.3, 10874-10875.3, 10841-10842.3, 10808-10809.3

"Location:

University Land 09 #1803H Stage 18 of 40 Date:

04/23/14 Start – 09:21

End – 11:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 2027 PSI

Ball Seat Volume 196 BBLs

Initial Breakdown 4651 PSI

Acid Volume (7.5% HCL) 40 BBLs

Acid Break Down 6875 PSI

Pad Volume 127 BBLs

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47280 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239560 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39560 LBS



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# Wellwork Chronological Regulatory Report

Flush 301 BBLS  
ISIP 3240 PSI  
Frac Gradient .85 Psi/ft  
5min drop 2095 PSI  
Total proppant 326400 LBS  
Total fluid to recover 5104 BBLS  
Total fresh water 3227 BBLS  
Total produced fluid 1777 BBLS  
Average Rate 64.6 BPM  
Average Pressure 5579 PSI  
Max Pressure 6854 PSI  
Stage Comments:"  
Wireline stage 19 pumped a total of 118 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10788 ft perforations from : 10771-10775.3, 10741-10742.3, 10708-10709.3, 10675-10676.3, 10642-10643.3  
"Location:  
University Land 09 #1803H Stage 19 of 40 Date:  
04/23/14 Start – 11:59  
End – 13:39  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1774 PSI  
Ball Seat Volume 174 BBLS  
Initial Breakdown 4861 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6749 PSI  
Pad Volume 103 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48040 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240460 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39200 LBS  
  
Flush 297 BBLS  
ISIP 3529 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2437 PSI  
Total proppant 327700 LBS  
Total fluid to recover 5067 BBLS  
Total fresh water 3392 BBLS  
Total produced fluid 1675 BBLS  
Average Rate 65.0 BPM  
Average Pressure 5305 PSI  
Max Pressure 6657 PSI  
Stage Comments:"  
Wireline stage 20 pumped a total of 123 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10618 ft perforations from : 10600-10601.3, 10575-10576.3, 10542-10543.3, 10509-10510.3, 10476-10477.3  
"Location:  
University Land 09 #1803H Stage 20 of 40 Date:  
04/23/14 Start – 14:34  
End – 16:16  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1898 PSI  
Ball Seat Volume 180 BBLS  
Initial Breakdown 4510 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6783 PSI  
Pad Volume 213 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49960 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240000 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 41600 LBS  
  
Flush 293 BBLS  
ISIP 2915 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2076 PSI  
Total proppant 331580 LBS  
Total fluid to recover 5224 BBLS  
Total fresh water 3461 BBLS  
Total produced fluid 1763 BBLS  
Average Rate 63.7 BPM  
Average Pressure 5095 PSI



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# Wellwork Chronological Regulatory Report

Max Pressure 6484 PSI  
Stage Comments:"  
Wireline stage 21 pumped a total of 111 bbls of water with a maximum pumping pressure of 4114 psi set the plug at a depth of 10456 ft perforations from :10310-10311.30, 10343-10344.15, 10376-10377.15, 10409-10410.15, 10442-10443  
"Location:  
University Land 09 #1803H Stage 21 of 40 Date:  
04/23/14 Start – 17:14  
End – 18:51  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1858 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 4300 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 6500 PSI  
Pad Volume 373 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49080 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 236863 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 289 BBLS  
ISIP 2546 PSI  
Frac Gradient .78 Psi/ft  
5min drop 2050 PSI  
Total proppant 325863 LBS  
Total fluid to recover 5033 BBLS  
Total fresh water 903 BBLS  
Total produced fluid 4103 BBLS  
Average Rate 64 BPM  
Average Pressure 5165 PSI  
Max Pressure 6100 PSI  
Stage Comments:"  
Wireline stage 22 pumped a total of 87 bbls of water with a maximum pumping pressure of 3016 psi set the plug at a depth of 10290 ft perforations from :10144-10145.30, 10177-10178.15, 10210-10211.15, 10246-10247.15, 10276-10277  
"Location:  
University Land 09 #1803H Stage 22 of 40 Date:  
04/23/14 Start – 19:37  
End – 21:22  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1779 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 3906 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 311 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48020 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240440 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 50100 LBS  
  
Flush 285 BBLS  
ISIP 2526 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2050 PSI  
Total proppant 338560 LBS  
Total fluid to recover 5369 BBLS  
Total fresh water 1554 BBLS  
Total produced fluid 3815 BBLS  
Average Rate 68.5 BPM  
Average Pressure 5197 PSI  
Max Pressure 6127 PSI  
Stage Comments:"  
Wireline stage 23 pumped a total of 83 bbls of water with a maximum pumping pressure of 3368 psi set the plug at a depth of 10124 ft perforations from :9978-9979.30, 10011-10012.15, 10044-10045.15, 10077-10078.15, 10110-10111  
"Location:  
University Land 09 #1803H Stage 23 of 40 Date:  
04/23/14 Start – 22:07  
End – 23:51  
Consultant:  
Justin Stringer Service Company:



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# Wellwork Chronological Regulatory Report

UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1679 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 5051 PSI  
Acid Volume (7.5% HCL) 53 BBLS  
Acid Break Down 6700 PSI  
Pad Volume 306 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48720 LBS

Ottawa 40/70 sand stages 1.00-2.50 ppg PPA  
Total Ottawa 40/70 238820 BBLS

Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 281 BBLS  
ISIP 2527 PSI  
Frac Gradient .75 Psi/ft  
5min drop 1820 PSI  
Total proppant 327620 LBS  
Total fluid to recover 5161 BBLS  
Total fresh water 1222 BBLS  
Total produced fluid 3939 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5078 PSI  
Max Pressure 5960 PSI  
Stage Comments:"  
Wireline stage 24 pumped a total of 77 bbls of water with a maximum pumping pressure of 3178 psi set the plug at a depth of 9958 ft perforations from: 9812-9813.30, 9845-9846.15, 9880-9881.15, 9911-9912.15, 9944-9945  
"Location:  
University Land 09 #1803H Stage 24 of 40 Date:  
04/23/14 Start – 24:39  
End – 02:17  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1642 PSI  
Ball Seat Volume 167 BBLS  
Initial Breakdown 6069 PSI  
Acid Volume (7.5% HCL) 44 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 348 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 240500 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 40280 LBS

Flush 278 BBLS  
ISIP 2784 PSI  
Frac Gradient .79 Psi/ft  
5min drop 1890 PSI  
Total proppant 329580 LBS  
Total fluid to recover 5066 BBLS  
Total fresh water 1277 BBLS  
Total produced fluid 3789 BBLS  
Average Rate 70 BPM  
Average Pressure 5159 PSI  
Max Pressure 6988 PSI  
Stage Comments:"  
Wireline stage 25 pumped a total of 71 bbls of water with a maximum pumping pressure of 3314 psi set the plug at a depth of 9792 ft perforations from:9646-9647.30, 9679-9680.15, 9712-9713.15, 9740-9741.15, 9778-9779  
greasing well head  
Start stage 26



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# Wellwork Chronological Regulatory Report

## Well Name: UNIVERSITY 09 #1803H

Field:	Lin (Wolfcamp)	S/T/R:	/ /	County, State:	
Location Desc:					
Operator:	Enduring Resources, LLC	Project Type:	Completion	District:	Southern
Project AFE:	DV02028	AFE's Associated:	/ / /	API:	
Supervisor:		Phone:			
Production Cur/Exp   Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

### Daily Summary

Activity Date:	4/8/2014	Days on Compl:	2	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Waiting on service companies to arrive  
Rig up frac sleeve, well head, flowcross, flow back equipment, wireline, and pumps.  
Waiting for wireline unit to finish logging the 09-1825H.  
RIH to 8,179' and log out. Cement top was seen at 6,400'.  
Rig down for the day.  
Well shut in till next morning.

### Daily Summary

Activity Date:	4/9/2014	Days on Compl:	3	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Went over daily activities that are to be performed & to pay attention to high pressure lines and have clear communication. No speeding on lease roads.  
Pressure test flow cross, pump iron and choke manifold, pressure test held at 8000psi  
Broke down shoe @ 4bbl/min at 5800psi then fell to 3500psi & pumped 350bbl. Well stabilized at 2300psi  
Rig in wireline Unit, opened well up @ 2300psi  
RIH and set bridge plug at 13740', weight change of 150lbs. Conducted pressure test to 8250psi for 15 minutes. P/U and shot perms at 13730, 13705, 13680, 13655, and 13630. POOH and CCL  
Rig down pump and wireline unit.  
Well shut in till frac.

### Daily Summary

Activity Date:	4/15/2014	Days on Compl:	9	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:**

### Daily Summary

Activity Date:	4/21/2014	Days on Compl:	15	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** UL-09-1803H  
Moved in frac and wireline. RU to well.  
Pressure Test  
Safety meeting discussed max pressure and frac run down, wireline operation, water transfer operations  
Start Frac stage 1

### Daily Summary

Activity Date:	4/22/2014	Days on Compl:	16	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks



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# Wellwork Chronological Regulatory Report

## 24 hour Summary

"Location:  
University Land 09 #1803H Stage 1 of 40 Date:  
04/21/14 Start – 04:05  
End – 05:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1176 PSI  
Ball Seat Volume - BBLS  
Initial Breakdown 4350 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 7210 PSI  
Pad Volume 337 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 97000 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 142920 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 20000 LBS

Flush 366 BBLS  
ISIP 2452 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2315 PSI  
Total proppant 259920 LBS  
Total fluid to recover 6976 BBLS  
Total fresh water 4839 BBLS  
Total produced fluid 2137 BBLS  
Average Rate 68 BPM  
Average Pressure 6139 PSI  
Max Pressure 6955 PSI  
Stage Comments:"  
Wireline stage 2 pumped a total of 210 bbls with a maximum pumping pressure of 3275 psi set the plug at a depth of 13605 perforations from : 13590  
-13591.3, 13563-13564.3, 13530-13531.3, 13497-13498.3, 13464-13465.3

"Location:  
University Land 09 #1803H Stage 2 of 40 Date:  
04/21/14 Start – 07:10  
End – 09:04  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1526 PSI  
Ball Seat Volume 253 BBLS  
Initial Breakdown 4736 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6870 PSI  
Pad Volume 234 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 46660 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 255388 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 362 BBLS  
ISIP 2623 PSI  
Frac Gradient .77 Psi/ft  
5min drop 1965 PSI  
Total proppant 342268 LBS  
Total fluid to recover 5530 BBLS  
Total fresh water 2524 BBLS  
Total produced fluid 3006 BBLS  
Average Rate 67.9 BPM  
Average Pressure 6310 PSI  
Max Pressure 6783 PSI  
Stage Comments:"  
Wireline stage 3 pumped a total of 179 bbls with a maximum pumping pressure of 3070 psi set the plug at a depth of 13442 perforations from : 13430  
-13431.3, 13397-13398.3, 13364-13365.3, 13334-13335.3, 13298-13299.3

"Location:  
University Land 09 #1803H Stage 3 of 40 Date:  
04/21/14 Start – 10:14  
End – 12:31  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1536 PSI  
Ball Seat Volume 2543 BBLS



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# Wellwork Chronological Regulatory Report

Initial Breakdown 2523 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6752 PSI  
Pad Volume 216 BBLS

100 Mesh sand Stages .5-1.25 PPA  
Total 100 Mesh Pumped 49880 LBS

Ottawa 40/70 sand stages 1-2 PPA  
Total Ottawa 40/70 248640 BBLS

Garnet RCS 40/70 sand stages 2.25 PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 359 BBLS  
ISIP 3016 PSI  
Frac Gradient .82 Psi/ft  
5min drop 1945 PSI  
Total proppant 338600 LBS  
Total fluid to recover 6753 BBLS  
Total fresh water 2966 BBLS  
Total produced fluid 1029 BBLS  
Average Rate 66.6 BPM  
Average Pressure 6560 PSI  
Max Pressure 7136 PSI  
Stage Comments:"  
Wireline stage 4 pumped a total of 187 bbls with a maximum pumping pressure of 4100 psi set the plug at a depth of 13265 perforations from : 13250-13251.3, 13231-13232.3, 13201-13202.3, 13165-13166.3, 13132-13133.3  
"Location:  
University Land 09 #1803H Stage 4 of 40 Date:  
04/21/14 Start – 13:36  
End – 15:56  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1601 PSI  
Ball Seat Volume 231 BBLS  
Initial Breakdown 4405 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6670 PSI  
Pad Volume 251 BBLS

100 Mesh sand Stages 0.50—1.25 PPA  
Total 100 Mesh Pumped 49320 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 239280 BBLS

Garnet RCS 40/70 sand stages 2.00 PPA  
Total Garnet RCS 40/70 41920 LBS

Flush 355 BBLS  
ISIP 2542 PSI  
Frac Gradient 0.76 Psi/ft  
5min drop 1920 PSI  
Total proppant 330520 LBS  
Total fluid to recover 6760 BBLS  
Total fresh water 2673 BBLS  
Total produced fluid 4087 BBLS  
Average Rate 64.4 BPM  
Average Pressure 6736 PSI  
Max Pressure 7506 PSI  
Stage Comments:"  
Wireline stage 5 pumped a total of 180 bbls with a maximum pumping pressure of 3484 psi set the plug at a depth of 13090 perforations from : 13075-13076.3, 13050-13051.3, 13032-13033.3, 12999-13000.3, 12966-12967.3  
"Location:  
University Land 09 #1803H Stage 5 of 40 Date:  
04/21/14 Start –17:07  
End – 19:19  
Consultant:  
Randy Hagen Service Company:  
UPP Treater:  
Brian Falls  
Initial Well-Head Pressure 1570 PSI  
Ball Seat Volume 244 BBLS  
Initial Breakdown 4822 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6305 PSI  
Pad Volume 327 BBLS

100 Mesh sand Stages 0.50—1.00 PPA  
Total 100 Mesh Pumped 48040 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 241580 BBLS



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# Wellwork Chronological Regulatory Report

Garnet RCS 40/70 sand stages 1.75 PPA  
Total Garnet RCS 40/70 40540 LBS

Flush 351 BBLS  
ISIP 2409 PSI  
Frac Gradient 0.74 Psi/ft  
5min drop 1975 PSI  
Total proppant 330160 LBS  
Total fluid to recover 7157 BBLS  
Total fresh water 2160 BBLS  
Total produced fluid 4997 BBLS  
Average Rate 68.2 BPM  
Average Pressure 6045 PSI  
Max Pressure 6938 PSI  
Stage Comments:"

Wireline stage 6 pumped a total of 175 bbls with a maximum pumping pressure of 3001 psi set the plug at a depth of 12946 perforations from : 12932-12933.3, 12899-12900.3, 12866-12867.3, 12833-12834.3, 12798-12799.3

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -20:21

End - 22:31

Consultant:

Randy Hagen / Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1608 PSI

Ball Seat Volume 223 BBLS

Initial Breakdown 4512 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 7,020 PSI

Pad Volume 402 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA

Total 100 Mesh Pumped 48,100 LBS

Ottawa 40/70 sand stages .75-2.25 ppg PPA

Total Ottawa 40/70 240,460 BBLS

Garnet RCS 40/70 sand stages 2.25 ppg PPA

Total Garnet RCS 40/70 40,940 LBS

Flush 347 BBLS  
ISIP 2,771 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2,061 PSI  
Total proppant 329,500 LBS  
Total fluid to recover 6,806 BBLS  
Total fresh water 3,648 BBLS  
Total produced fluid 3,158 BBLS  
Average Rate 68 BPM  
Average Pressure 6,206 PSI  
Max Pressure 6,747 PSI  
Stage Comments:"

Wireline Stage 7 pumped a total of 184 bbls with a maximum pumping pressure of 3,347 psi set the plug on depth at 12,780 ft perforations from:12630-12631.30, 12667-12668.15, 12700-12701.15, 12733-12734.15, 12766-12767

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -23:36

End - 01:51

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1,802 PSI

Ball Seat Volume 232 BBLS

Initial Breakdown 5,117 PSI

Acid Volume (7.5% HCL) 52 BBLS

Acid Break Down 6,750 PSI

Pad Volume 431 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 48,420 LBS

Ottawa 40/70 sand stages 1.00-2.00 ppg PPA

Total Ottawa 40/70 238,040 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA

Total Garnet RCS 40/70 39,680 LBS

Flush 343 BBLS  
ISIP 2,501 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2,040 PSI  
Total proppant 326,140 LBS  
Total fluid to recover 7,037 BBLS





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Total fresh water 2,193 BBLS  
Total produced fluid 4,844 BBLS  
Average Rate 67.2 BPM  
Average Pressure 6,082 PSI  
Max Pressure 6,622 PSI  
Stage Comments:"  
Wireline stage 8 pumped a total of 161 bbls of water with a maximum pumping pressure of 3,036 psi set the plug at a depth of 12,614 ft perforations from:12468-12469.30, 12501-12502.15, 12534-12535.15, 12567-12568.15, 12600-12601  
"Location:  
University Land 09 #1803H Stage 8 of 40 Date:  
04/21/14 Start -02:55  
End - 04:55  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1783 PSI  
Ball Seat Volume 232 BBLS  
Initial Breakdown 5117 PSI  
Acid Volume (7.5% HCL) 50 BBLS  
Acid Break Down 6550 PSI  
Pad Volume 281 BBLS  
  
100 Mesh sand Stages 0.5-1.50 ppg PPA  
Total 100 Mesh Pumped 47060 LBS  
  
Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240100 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 ppg PPA  
Total Garnet RCS 40/70 39840 LBS  
  
Flush 339 BBLS  
ISIP 2927 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2079 PSI  
Total proppant 327000 LBS  
Total fluid to recover 5979 BBLS  
Total fresh water 3601 BBLS  
Total produced fluid 2378 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5611 PSI  
Max Pressure 6638 PSI  
Stage Comments:"  
Wireline stage 9 pumped a total of 167 bbls of water with a maximum pumping pressure of 3480 psi set the plug at a depth of 12448 ft perforations from : 12434-12435.3, 12404-12405.3, 12368-12369.3, 12335-12336.3, 12302-12303.3

## Daily Summary

Activity Date:	4/23/2014	Days on Compl:	17	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

### 24 Hour Summary:

Remarks  
"Location:  
University Land 09 #1803H Stage 9 of 40 Date:  
04/22/14 Start - 05:54  
End - 07:51  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1815 PSI  
Ball Seat Volume 225 BBLS  
Initial Breakdown 4409 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6430 PSI  
Pad Volume 156 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48120 LBS  
  
Ottawa 40/70 sand stages 1.00-2.50 PPA  
Total Ottawa 40/70 243700 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 PPA  
Total Garnet RCS 40/70 39520 LBS  
  
Flush 335 BBLS  
ISIP 2808 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2056 PSI  
Total proppant 331340 LBS  
Total fluid to recover 5814 BBLS  
Total fresh water 3649 BBLS  
Total produced fluid 2165 BBLS



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# Wellwork Chronological Regulatory Report

Average Rate 62.5 BPM  
Average Pressure 5644 PSI  
Max Pressure 6712 PSI  
Stage Comments:"  
Wireline stage 10 pumped a total of 166 bbls of water with a maximum pumping pressure of 3375 psi set the plug at a depth of 12282 ft perforations from : 12262-12263.3, 12235-12236.3, 12202-12203.3, 12169-12170.3, 12132-12133.3  
"Location:  
University Land 09 #1803H Stage 10 of 40 Date:  
04/22/14 Start – 08:46  
End – 10:57  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1819 PSI  
Ball Seat Volume 220 BBLS  
Initial Breakdown 5272 PSI  
Acid Volume (7.5% HCL) 41 BBLS  
Acid Break Down 6758 PSI  
Pad Volume 158 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49700 LBS  
  
Ottawa 40/70 sand stages .25-2.25 PPA  
Total Ottawa 40/70 239360 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 332 BBLS  
ISIP 2909 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2089 PSI  
Total proppant 328980 LBS  
Total fluid to recover 6802 BBLS  
Total fresh water 3715 BBLS  
Total produced fluid 3087 BBLS  
Average Rate 64.3 BPM  
Average Pressure 6156 PSI  
Max Pressure 7123 PSI  
Stage Comments:"  
Wireline stage 11 pumped a total of 151 bbls of water with a maximum pumping pressure of 3450 psi set the plug at a depth of 12116 ft perforations from : 12102-12103.3, 12069-12070.3, 12036-12037.3, 12000-12001.3, 11972-11973.3  
"Location:  
University Land 09 #1803H Stage 11 of 40 Date:  
04/22/14 Start – 12:06  
End – 14:03  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1734 PSI  
Ball Seat Volume 215 BBLS  
Initial Breakdown 2345 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6560 PSI  
Pad Volume 131 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49160 LBS  
  
Ottawa 40/70 sand stages .50-3.00 PPA  
Total Ottawa 40/70 237880 BBLS  
  
Garnet RCS 40/70 sand stages 3.25 PPA  
Total Garnet RCS 40/70 38920 LBS  
  
Flush 332 BBLS  
ISIP 3571 PSI  
Frac Gradient .89 Psi/ft  
5min drop 2700 PSI  
Total proppant 352960 LBS  
Total fluid to recover 5992 BBLS  
Total fresh water 1953 BBLS  
Total produced fluid 4039 BBLS  
Average Rate 65.5 BPM  
Average Pressure 5833 PSI  
Max Pressure 6326 PSI  
Stage Comments:"  
Wireline stage 12 pumped a total of 137 bbls of water with a maximum pumping pressure of 4075 psi set the plug at a depth of 11946 ft perforations from : 11932-11933.3, 11903-11904.3, 11870-11871.3, 11840-11841.3, 11804-11805.3  
Greasing the wellhead  
"Location:  
University Land 09 #1803H Stage 12 of 40 Date:  
04/22/14 Start – 15:32



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# Wellwork Chronological Regulatory Report

End – 17:08  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1867 PSI  
Ball Seat Volume 92 BBLS  
Initial Breakdown 4470 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 537 BBLS

100 Mesh sand Stages .50 – 2.00 ppg PPA  
Total 100 Mesh Pumped 49,060 LBS

Ottawa 40/70 sand stages 2.00-2.25 ppg PPA  
Total Ottawa 40/70 238,900 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40,240 LBS

Flush 328 BBLS  
ISIP 3186 PSI  
Frac Gradient .84 Psi/ft  
5min drop 2138 PSI  
Total proppant 328,200 LBS  
Total fluid to recover 5036 BBLS  
Total fresh water 855 BBLS  
Total produced fluid 4181 BBLS  
Average Rate 58.7 BPM  
Average Pressure 5474 PSI  
Max Pressure 6940 PSI  
Stage Comments:"  
Wireline stage 13 pumped a total of 139 bbls of water with a maximum pumping pressure of 3905 psi set the plug at a depth of 11774 ft perforations from : 11638-11639.30, 11671-11672.15, 11707-11708.15, 11737-11738.15, 11760-11761  
"Location:  
University Land 09 #1803H Stage 13 of 40 Date:  
04/22/14 Start – 18:31  
End – 20:49  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1726 PSI  
Ball Seat Volume 196 BBLS  
Initial Breakdown 4955 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 7050 PSI  
Pad Volume 524 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48200 LBS

Ottawa 40/70 sand stages .50-2.25 ppg PPA  
Total Ottawa 40/70 240760 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 41000 LBS

Flush 322 BBLS  
ISIP 2939 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2089 PSI  
Total proppant 329960 LBS  
Total fluid to recover 6922 BBLS  
Total fresh water 2605 BBLS  
Total produced fluid 4317 BBLS  
Average Rate 56 BPM  
Average Pressure 5689 PSI  
Max Pressure 6491 PSI  
Stage Comments:"  
Wireline stage 14 pumped a total of 133 bbls of water with a maximum pumping pressure of 3629 psi set the plug at a depth of 11618 ft perforations from :11472-11473.30, 11505-11506.15, 11538-11539.15, 11571-11572.15, 11604-11605  
"Location:  
University Land 09 #1803H Stage 14 of 40 Date:  
04/22/14 Start – 21:49  
End – 23:50  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1781 PSI  
Ball Seat Volume 199 BBLS  
Initial Breakdown 4810 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6900 PSI



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Pad Volume 540 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48100 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240140 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40060 LBS

Flush 319 BBLS  
ISIP 3271 PSI  
Frac Gradient .85 Psi/ft  
5min drop 1973 PSI  
Total proppant 328300 LBS  
Total fluid to recover 5704 BBLS  
Total fresh water 1922 BBLS  
Total produced fluid 3782 BBLS  
Average Rate 52.6 BPM  
Average Pressure 5248 PSI  
Max Pressure 6185 PSI  
Stage Comments:"  
Wireline stage 15 pumped a total of 138 bbls of water with a maximum pumping pressure of 3577 psi set the plug at a depth of 11452 ft perforations from :11306-11307.30, 11339-11340.15, 11372-11373.15, 11404-11405.15, 11438-11439  
"Location:  
University Land 09 #1803H Stage 15 of 40 Date:  
04/22/14 Start – 12:41  
End – 03:06  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1713 PSI  
Ball Seat Volume 200 BBLS  
Initial Breakdown 4631 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 497 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 239960 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39760 LBS

Flush 315 BBLS  
ISIP 3492 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2228 PSI  
Total proppant 327940 LBS  
Total fluid to recover 7507 BBLS  
Total fresh water 5660 BBLS  
Total produced fluid 1847 BBLS  
Average Rate 60.9 BPM  
Average Pressure 6013 PSI  
Max Pressure 6862 PSI  
Stage Comments:"  
Wireline stage 16 pumped a total of 129 bbls of water with a maximum pumping pressure of 4122 psi set the plug at a depth of 11280 ft perforations from: 11140-11141.30, 11173-11174.15, 11206-11207.15, 11239-11240.15, 11266-11267  
Start stage 16

## Daily Summary

Activity Date:	4/24/2014	Days on Compl:	18	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks  
"Location:  
University Land 09 #1803H Stage 16 of 40 Date:  
04/23/14 Start – 04:04  
End – 05:50  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1977 PSI  
Ball Seat Volume 201 BBLS  
Initial Breakdown 4513 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6420 PSI  
Pad Volume 106 BBLS



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100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48000 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 238400 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40780 LBS

Flush 308 BBLS  
ISIP 2889 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2082 PSI  
Total proppant 327180 LBS  
Total fluid to recover 5338 BBLS  
Total fresh water 3689 BBLS  
Total produced fluid 1649 BBLS  
Average Rate 62.1 BPM  
Average Pressure 5487 PSI  
Max Pressure 6494 PSI  
Stage Comments:"

Wireline stage 17 pumped a total of 113 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 11116 ft perforations from : 11100-11101.3, 11073-11074.3, 11040-11041.3, 11007-11008.3, 10974-10975.3

"Location:

University Land 09 #1803H Stage 17 of 40 Date:

04/23/14 Start – 06:49

End – 08:30

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1794 PSI

Ball Seat Volume 193 BBLS

Initial Breakdown 4645 PSI

Acid Volume (7.5% HCL) 40 BBLS

Acid Break Down 6890 PSI

Pad Volume 158 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47440 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239500 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40140 LBS

Flush 305 BBLS  
ISIP 4500 PSI  
Frac Gradient 1.01 Psi/ft  
5min drop 2312 PSI  
Total proppant 327080 LBS  
Total fluid to recover 4958 BBLS  
Total fresh water 3492 BBLS  
Total produced fluid 1466 BBLS  
Average Rate 66.5 BPM  
Average Pressure 5809 PSI  
Max Pressure 7615 PSI  
Stage Comments:"

Wireline stage 18 pumped a total of 114 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10954 ft perforations from : 10940-10941.3, 10907-10908.3, 10874-10875.3, 10841-10842.3, 10808-10809.3

"Location:

University Land 09 #1803H Stage 18 of 40 Date:

04/23/14 Start – 09:21

End – 11:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 2027 PSI

Ball Seat Volume 196 BBLS

Initial Breakdown 4651 PSI

Acid Volume (7.5% HCL) 40 BBLS

Acid Break Down 6875 PSI

Pad Volume 127 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47280 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239560 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39560 LBS



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# Wellwork Chronological Regulatory Report

Flush 301 BBLS  
ISIP 3240 PSI  
Frac Gradient .85 Psi/ft  
5min drop 2095 PSI  
Total proppant 326400 LBS  
Total fluid to recover 5104 BBLS  
Total fresh water 3227 BBLS  
Total produced fluid 1777 BBLS  
Average Rate 64.6 BPM  
Average Pressure 5579 PSI  
Max Pressure 6854 PSI  
Stage Comments:"  
Wireline stage 19 pumped a total of 118 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10788 ft perforations from : 10771-10775.3, 10741-10742.3, 10708-10709.3, 10675-10676.3, 10642-10643.3  
"Location:  
University Land 09 #1803H Stage 19 of 40 Date:  
04/23/14 Start – 11:59  
End – 13:39  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1774 PSI  
Ball Seat Volume 174 BBLS  
Initial Breakdown 4861 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6749 PSI  
Pad Volume 103 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48040 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240460 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39200 LBS  
  
Flush 297 BBLS  
ISIP 3529 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2437 PSI  
Total proppant 327700 LBS  
Total fluid to recover 5067 BBLS  
Total fresh water 3392 BBLS  
Total produced fluid 1675 BBLS  
Average Rate 65.0 BPM  
Average Pressure 5305 PSI  
Max Pressure 6657 PSI  
Stage Comments:"  
Wireline stage 20 pumped a total of 123 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10618 ft perforations from : 10600-10601.3, 10575-10576.3, 10542-10543.3, 10509-10510.3, 10476-10477.3  
"Location:  
University Land 09 #1803H Stage 20 of 40 Date:  
04/23/14 Start – 14:34  
End – 16:16  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1898 PSI  
Ball Seat Volume 180 BBLS  
Initial Breakdown 4510 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6783 PSI  
Pad Volume 213 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49960 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240000 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 41600 LBS  
  
Flush 293 BBLS  
ISIP 2915 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2076 PSI  
Total proppant 331580 LBS  
Total fluid to recover 5224 BBLS  
Total fresh water 3461 BBLS  
Total produced fluid 1763 BBLS  
Average Rate 63.7 BPM  
Average Pressure 5095 PSI



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# Wellwork Chronological Regulatory Report

Max Pressure 6484 PSI  
Stage Comments:"  
Wireline stage 21 pumped a total of 111 bbls of water with a maximum pumping pressure of 4114 psi set the plug at a depth of 10456 ft perforations from :10310-10311.30, 10343-10344.15, 10376-10377.15, 10409-10410.15, 10442-10443  
"Location:  
University Land 09 #1803H Stage 21 of 40 Date:  
04/23/14 Start – 17:14  
End – 18:51  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1858 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 4300 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 6500 PSI  
Pad Volume 373 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49080 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 236863 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 289 BBLS  
ISIP 2546 PSI  
Frac Gradient .78 Psi/ft  
5min drop 2050 PSI  
Total proppant 325863 LBS  
Total fluid to recover 5033 BBLS  
Total fresh water 903 BBLS  
Total produced fluid 4103 BBLS  
Average Rate 64 BPM  
Average Pressure 5165 PSI  
Max Pressure 6100 PSI  
Stage Comments:"  
Wireline stage 22 pumped a total of 87 bbls of water with a maximum pumping pressure of 3016 psi set the plug at a depth of 10290 ft perforations from :10144-10145.30, 10177-10178.15, 10210-10211.15, 10246-10247.15, 10276-10277  
"Location:  
University Land 09 #1803H Stage 22 of 40 Date:  
04/23/14 Start – 19:37  
End – 21:22  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1779 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 3906 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 311 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48020 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240440 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 50100 LBS  
  
Flush 285 BBLS  
ISIP 2526 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2050 PSI  
Total proppant 338560 LBS  
Total fluid to recover 5369 BBLS  
Total fresh water 1554 BBLS  
Total produced fluid 3815 BBLS  
Average Rate 68.5 BPM  
Average Pressure 5197 PSI  
Max Pressure 6127 PSI  
Stage Comments:"  
Wireline stage 23 pumped a total of 83 bbls of water with a maximum pumping pressure of 3368 psi set the plug at a depth of 10124 ft perforations from :9978-9979.30, 10011-10012.15, 10044-10045.15, 10077-10078.15, 10110-10111  
"Location:  
University Land 09 #1803H Stage 23 of 40 Date:  
04/23/14 Start – 22:07  
End – 23:51  
Consultant:  
Justin Stringer Service Company:



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# Wellwork Chronological Regulatory Report

UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1679 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 5051 PSI  
Acid Volume (7.5% HCL) 53 BBLS  
Acid Break Down 6700 PSI  
Pad Volume 306 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48720 LBS

Ottawa 40/70 sand stages 1.00-2.50 ppg PPA  
Total Ottawa 40/70 238820 BBLS

Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 281 BBLS  
ISIP 2527 PSI  
Frac Gradient .75 Psi/ft  
5min drop 1820 PSI  
Total proppant 327620 LBS  
Total fluid to recover 5161 BBLS  
Total fresh water 1222 BBLS  
Total produced fluid 3939 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5078 PSI  
Max Pressure 5960 PSI  
Stage Comments:"  
Wireline stage 24 pumped a total of 77 bbls of water with a maximum pumping pressure of 3178 psi set the plug at a depth of 9958 ft perforations from: 9812-9813.30, 9845-9846.15, 9880-9881.15, 9911-9912.15, 9944-9945  
"Location:  
University Land 09 #1803H Stage 24 of 40 Date:  
04/23/14 Start – 24:39  
End – 02:17  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1642 PSI  
Ball Seat Volume 167 BBLS  
Initial Breakdown 6069 PSI  
Acid Volume (7.5% HCL) 44 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 348 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 240500 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 40280 LBS

Flush 278 BBLS  
ISIP 2784 PSI  
Frac Gradient .79 Psi/ft  
5min drop 1890 PSI  
Total proppant 329580 LBS  
Total fluid to recover 5066 BBLS  
Total fresh water 1277 BBLS  
Total produced fluid 3789 BBLS  
Average Rate 70 BPM  
Average Pressure 5159 PSI  
Max Pressure 6988 PSI  
Stage Comments:"  
Wireline stage 25 pumped a total of 71 bbls of water with a maximum pumping pressure of 3314 psi set the plug at a depth of 9792 ft perforations from:9646-9647.30, 9679-9680.15, 9712-9713.15, 9740-9741.15, 9778-9779  
greasing well head  
Start stage 26

## Daily Summary

Activity Date:	4/25/2014	Days on Compl:	19	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Remarks "Location: University Land 09 #1803H Stage 25 of 40 Date: 04/24/14 Start – 03:43 End – 07:47 Consultant: Justin Stringer Service Company:				





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# Wellwork Chronological Regulatory Report

UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1539 PSI  
Ball Seat Volume 56 BBLS  
Initial Breakdown 4820 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 7132 PSI  
Pad Volume 22 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240180 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39780 LBS

Flush 1861 BBLS  
ISIP 3727 PSI  
Frac Gradient .91 Psi/ft  
5min drop 2560 PSI  
Total proppant 328180 LBS  
Total fluid to recover 6647 BBLS  
Total fresh water 2774 BBLS  
Total produced fluid 3873 BBLS  
Average Rate 64.9 BPM  
Average Pressure 6037 PSI  
Max Pressure 7010 PSI  
Stage Comments:"  
Wireline stage 26 pumped a total of 64 bbls of water with a maximum pumping pressure of 4780 psi set the plug at a depth of 9626 ft perforations from : 9610-9611.3, 9579-9580.3, 9546-9547.3, 9513-9514.3, 9478-9479.3  
Universal workingon pump trucks  
"Location:  
University Land 09 #1803H Stage 26 of 40 Date:  
04/24/14 Start – 09:42  
End – 11:13  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1633 PSI  
Ball Seat Volume 146 BBLS  
Initial Breakdown 1531 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 6360 PSI  
Pad Volume 103 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 39960 LBS

Ottawa 40/70 sand stages 1.00-3.50 PPA  
Total Ottawa 40/70 242560 BBLS

Garnet RCS 40/70 sand stages 4.00 PPA  
Total Garnet RCS 40/70 323120 LBS

Flush 272 BBLS  
ISIP 3950 PSI  
Frac Gradient .81 Psi/ft  
5min drop 1950 PSI  
Total proppant 323120 LBS  
Total fluid to recover 4653 BBLS  
Total fresh water 1189 BBLS  
Total produced fluid 3464 BBLS  
Average Rate 67.0 BPM  
Average Pressure 5409 PSI  
Max Pressure 6296 PSI  
Stage Comments:"  
Wireline stage 27 pumped a total of 63 bbls of water with a maximum pumping pressure of 4010 psi set the plug at a depth of 9460 ft perforations from : 9446-9447.3, 9408-9409.3, 9380-9381.3, 9343-9434.3, 9314-9315.3  
"Location:  
University Land 09 #1803H Stage 27 of 40 Date:  
04/24/14 Start – 12:00  
End – 13:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1761 PSI  
Ball Seat Volume 133 BBLS  
Initial Breakdown 4585 PSI  
Acid Volume (7.5% HCL) 43 BBLS  
Acid Break Down 6701 PSI  
Pad Volume 84 BBLS



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# Wellwork Chronological Regulatory Report

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48600 LBS

Ottawa 40/70 sand stages 1.50-3.50 PPA  
Total Ottawa 40/70 240620 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 268 BBLS  
ISIP 2521 PSI  
Frac Gradient .75 Psi/ft  
5min drop 1950 PSI  
Total proppant 329440 LBS  
Total fluid to recover 4788 BBLS  
Total fresh water 563 BBLS  
Total produced fluid 4225 BBLS  
Average Rate 62.8 BPM  
Average Pressure 5493 PSI  
Max Pressure 6658 PSI  
Stage Comments:"

Wireline stage 28 pumped a total of 61 bbls of water with a maximum pumping pressure of 4010 psi set the plug at a depth of 9288 ft perforations from : 9276-9277.3, 9247-9248.3, 9214-9215.3, 9181-9182.3, 9148-9149.3

"Location:

University Land 09 #1803H Stage 28 of 40 Date:

04/24/14 Start – 14:20

End – 16:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

J. Rodriguez

Initial Well-Head Pressure 1641 PSI

Ball Seat Volume 155 BBLS

Initial Breakdown 4827 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 5950 PSI

Pad Volume 166 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,220 LBS

Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 239,740 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 41,580 LBS

Flush 263 BBLS  
ISIP 3,286 PSI  
Frac Gradient .85 Psi/ft  
5min drop 2,100 PSI  
Total proppant 329,540 LBS  
Total fluid to recover 5,411 BBLS  
Total fresh water 1544 BBLS  
Total produced fluid 2467 BBLS  
Average Rate 63.8 BPM  
Average Pressure 5,732 PSI  
Max Pressure 6,421 PSI  
Stage Comments:"

Wireline stage 29 pumped a total of 57 bbls of water with a maximum pumping pressure of 3770 psi set the plug at a depth of 9128 ft perforations from: 8982-8983.30, 9015-9016.15, 9048-9049.15, 9048-9049.15, 9080-9081.15, 9114-9115

"Location:

University Land 09 #1803H Stage 29 of 40 Date:

04/24/14 Start – 16:46

End – 18:14

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1747 PSI

Ball Seat Volume 146 BBLS

Initial Breakdown 4611 PSI

Acid Volume (7.5% HCL) 50 BBLS

Acid Break Down 6600 PSI

Pad Volume 340 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49,800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 237,620 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 40,020 LBS

Flush 259 BBLS



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# Wellwork Chronological Regulatory Report

ISIP 2,678 PSI  
Frac Gradient .77 Psi/ft  
5min drop 1,930 PSI  
Total proppant 327,440 LBS  
Total fluid to recover 4355 BBLS  
Total fresh water 1,097 BBLS  
Total produced fluid 3,258 BBLS  
Average Rate 69.2 BPM  
Average Pressure 4,923 PSI  
Max Pressure 5,784 PSI  
Stage Comments:"  
Wireline stage 30 pumped a total of 47 bbls of water with a maximum pumping pressure of 3122 psi set the plug at a depth of 8962 ft perforations from: 8816-8817.30, 8849-8850.15, 8882-8883.15, 8915-8916.15, 8948-8949  
"Location:  
University Land 09 #1803H Stage 30 of 40 Date:  
04/24/14 Start – 18:52  
End – 20:34  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuleta  
Initial Well-Head Pressure 1,610 PSI  
Ball Seat Volume 145 BBLS  
Initial Breakdown 4,662 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 6,800 PSI  
Pad Volume 190 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,040 LBS  
  
Ottawa 40/70 sand stages 1.50-2.50 ppg PPA  
Total Ottawa 40/70 143,860 BBLS  
  
Garnet RCS 40/70 sand stages .50-1.00 ppg PPA  
Total Garnet RCS 40/70 31,360 LBS  
  
Flush 258 BBLS  
ISIP 3,040 PSI  
Frac Gradient .82 Psi/ft  
5min drop 1,718 PSI  
Total proppant 223,260 LBS  
Total fluid to recover 5,171 BBLS  
Total fresh water 1,938 BBLS  
Total produced fluid 3,233 BBLS  
Average Rate 64.5 BPM  
Average Pressure 5,559 PSI  
Max Pressure 6,816 PSI  
Stage Comments:"  
Wireline stage 31 pumped a total of 42 bbls of water with a maximum pumping pressure of 3489 psi set the plug at a depth of 8796 ft perforations from: 8650-8651.30, 8683-8684.15, 8718-8719.15, 8749-8750.15, 8782-8783  
"Location:  
University Land 09 #1803H Stage 31 of 40 Date:  
04/24/14 Start – 21:11  
End – 22:46  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuleta  
Initial Well-Head Pressure 3,387 PSI  
Ball Seat Volume 136 BBLS  
Initial Breakdown 4,573 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6,450 PSI  
Pad Volume 230 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49,020 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 241,580 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 40,600 LBS  
  
Flush 252 BBLS  
ISIP 3,387 PSI  
Frac Gradient .86 Psi/ft  
5min drop 2,102 PSI  
Total proppant 331,200 LBS  
Total fluid to recover 4,794 BBLS  
Total fresh water 2,868 BBLS  
Total produced fluid 1,926 BBLS  
Average Rate 61.1 BPM  
Average Pressure 4,989 PSI  
Max Pressure 6,484 PSI



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## Stage Comments:"

Wireline stage 32 pumped a total of 39 bbls of water with a maximum pumping pressure of 3176 psi set the plug at a depth of 8630 ft perforations from: 8484-8485.30, 8515-8516.15, 8550-8551.15, 8586-8587.15, 8616-8617

"Location:

University Land 09 #1803H Stage 32 of 40 Date:

04/24/14 Start – 23:24

End – 01:10

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1,808 PSI

Ball Seat Volume 135 BBLS

Initial Breakdown 4,586 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 5,900 PSI

Pad Volume 143 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 47,760 LBS

Ottawa 40/70 sand stages .50-3.00 ppg PPA

Total Ottawa 40/70 239,440 BBLS

Garnet RCS 40/70 sand stages 50,520 PPA

Total Garnet RCS 40/70 3.50 ppg LBS

Flush 247 BBLS

ISIP 3,410 PSI

Frac Gradient .87 Psi/ft

5min drop 2,020 PSI

Total proppant 337,720 LBS

Total fluid to recover 5,472 BBLS

Total fresh water 3,474 BBLS

Total produced fluid 1,998 BBLS

Average Rate 68 BPM

Average Pressure 4,713 PSI

Max Pressure 5,320 PSI

Stage Comments:"

Wireline stage 33 pumped a total of 34 bbls of water with a maximum pumping pressure of 3620 psi set the plug at a depth of 8464 ft perforations from: 8318-8319.30, 8351-8352.15, 8384-8385.15, 8417-8418.15, 8446-8447

"Location:

University Land 09 #1803H Stage 33 of 40 Date:

04/24/14 Start – 01:45

End – 03:21

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1,829 PSI

Ball Seat Volume 131 BBLS

Initial Breakdown 5,269 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 6,879 PSI

Pad Volume 79 BBLS

100 Mesh sand Stages .50-1.50 PPA

Total 100 Mesh Pumped 48020 LBS

Ottawa 40/70 sand stages 1.50-3.00 PPA

Total Ottawa 40/70 239720 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA

Total Garnet RCS 40/70 39640 LBS

Flush 243 BBLS

ISIP 4072 PSI

Frac Gradient .95 Psi/ft

5min drop 1960 PSI

Total proppant 327640 LBS

Total fluid to recover 4851 BBLS

Total fresh water 3042 BBLS

Total produced fluid 1809 BBLS

Average Rate 60.2 BPM

Average Pressure 4824 PSI

Max Pressure 5635 PSI

Stage Comments:"

Wireline stage 34 pumped a total of 25 bbls of water with a maximum pumping pressure of 3760 psi set the plug at a depth of 8298 ft perforations from : 8284-8285.3, 8251-8252.3, 8218-8219.3, 8185-8186.3, 8152-8153.3

"Location:

University Land 09 #1803H Stage 34 of 40 Date:

04/25/14 Start – 03:59

End – 05:30

Consultant:

Storm McDonald Service Company:

UPP Treater:



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## Wellwork Chronological Regulatory Report

J. Rodriguez  
Initial Well-Head Pressure 1900 PSI  
Ball Seat Volume 128 BBLS  
Initial Breakdown 4312 PSI  
Acid Volume (7.5% HCL) 54 BBLS  
Acid Break Down 6458 PSI  
Pad Volume 48 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 50280 LBS  
  
Ottawa 40/70 sand stages 1.50-3.50 PPA  
Total Ottawa 40/70 241220 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 42220 LBS  
  
Flush 239 BBLS  
ISIP 3355 PSI  
Frac Gradient .86 Psi/ft  
5min drop 2150 PSI  
Total proppant 333720 LBS  
Total fluid to recover 4657 BBLS  
Total fresh water 3038 BBLS  
Total produced fluid 1619 BBLS  
Average Rate 62.3 BPM  
Average Pressure 4970 PSI  
Max Pressure 6339 PSI  
Stage Comments:"  
Set kill plug at 7250



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# Wellwork Chronological Regulatory Report

## Well Name: UNIVERSITY 09 #1803H

Field:	Lin (Wolfcamp)	S/T/R:	/ /	County, State:	
Location Desc:					
Operator:	Enduring Resources, LLC	Project Type:	Completion	District:	Southern
Project AFE:	DV02028	AFE's Associated:	/ / /	API:	
Supervisor:		Phone:			
Production Cur/Exp   Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

### Daily Summary

Activity Date:	4/8/2014	Days on Compl:	2	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Waiting on service companies to arrive  
Rig up frac sleeve, well head, flowcross, flow back equipment, wireline, and pumps.  
Waiting for wireline unit to finish logging the 09-1825H.  
RIH to 8,179' and log out. Cement top was seen at 6,400'.  
Rig down for the day.  
Well shut in till next morning.

### Daily Summary

Activity Date:	4/9/2014	Days on Compl:	3	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Went over daily activities that are to be performed & to pay attention to high pressure lines and have clear communication. No speeding on lease roads.  
Pressure test flow cross, pump iron and choke manifold, pressure test held at 8000psi  
Broke down shoe @ 4bbl/min at 5800psi then fell to 3500psi & pumped 350bbl. Well stabilized at 2300psi  
Rig in wireline Unit, opened well up @ 2300psi  
RIH and set bridge plug at 13740', weight change of 150lbs. Conducted pressure test to 8250psi for 15 minutes. P/U and shot perms at 13730, 13705, 13680, 13655, and 13630. POOH and CCL  
Rig down pump and wireline unit.  
Well shut in till frac.

### Daily Summary

Activity Date:	4/15/2014	Days on Compl:	9	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:**

### Daily Summary

Activity Date:	4/21/2014	Days on Compl:	15	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** UL-09-1803H  
Moved in frac and wireline. RU to well.  
Pressure Test  
Safety meeting discussed max pressure and frac run down, wireline operation, water transfer operations  
Start Frac stage 1

### Daily Summary

Activity Date:	4/22/2014	Days on Compl:	16	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks



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# Wellwork Chronological Regulatory Report

## 24 hour Summary

"Location:  
University Land 09 #1803H Stage 1 of 40 Date:  
04/21/14 Start – 04:05  
End – 05:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1176 PSI  
Ball Seat Volume - BBLS  
Initial Breakdown 4350 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 7210 PSI  
Pad Volume 337 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 97000 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 142920 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 20000 LBS

Flush 366 BBLS  
ISIP 2452 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2315 PSI  
Total proppant 259920 LBS  
Total fluid to recover 6976 BBLS  
Total fresh water 4839 BBLS  
Total produced fluid 2137 BBLS  
Average Rate 68 BPM  
Average Pressure 6139 PSI  
Max Pressure 6955 PSI  
Stage Comments:"  
Wireline stage 2 pumped a total of 210 bbls with a maximum pumping pressure of 3275 psi set the plug at a depth of 13605 perforations from : 13590  
-13591.3, 13563-13564.3, 13530-13531.3, 13497-13498.3, 13464-13465.3

"Location:  
University Land 09 #1803H Stage 2 of 40 Date:  
04/21/14 Start – 07:10  
End – 09:04  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1526 PSI  
Ball Seat Volume 253 BBLS  
Initial Breakdown 4736 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6870 PSI  
Pad Volume 234 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 46660 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 255388 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 362 BBLS  
ISIP 2623 PSI  
Frac Gradient .77 Psi/ft  
5min drop 1965 PSI  
Total proppant 342268 LBS  
Total fluid to recover 5530 BBLS  
Total fresh water 2524 BBLS  
Total produced fluid 3006 BBLS  
Average Rate 67.9 BPM  
Average Pressure 6310 PSI  
Max Pressure 6783 PSI  
Stage Comments:"  
Wireline stage 3 pumped a total of 179 bbls with a maximum pumping pressure of 3070 psi set the plug at a depth of 13442 perforations from : 13430  
-13431.3, 13397-13398.3, 13364-13365.3, 13334-13335.3, 13298-13299.3

"Location:  
University Land 09 #1803H Stage 3 of 40 Date:  
04/21/14 Start – 10:14  
End – 12:31  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1536 PSI  
Ball Seat Volume 2543 BBLS



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# Wellwork Chronological Regulatory Report

Initial Breakdown 2523 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6752 PSI  
Pad Volume 216 BBLS

100 Mesh sand Stages .5-1.25 PPA  
Total 100 Mesh Pumped 49880 LBS

Ottawa 40/70 sand stages 1-2 PPA  
Total Ottawa 40/70 248640 BBLS

Garnet RCS 40/70 sand stages 2.25 PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 359 BBLS  
ISIP 3016 PSI  
Frac Gradient .82 Psi/ft  
5min drop 1945 PSI  
Total proppant 338600 LBS  
Total fluid to recover 6753 BBLS  
Total fresh water 2966 BBLS  
Total produced fluid 1029 BBLS  
Average Rate 66.6 BPM  
Average Pressure 6560 PSI  
Max Pressure 7136 PSI  
Stage Comments:"  
Wireline stage 4 pumped a total of 187 bbls with a maximum pumping pressure of 4100 psi set the plug at a depth of 13265 perforations from : 13250-13251.3, 13231-13232.3, 13201-13202.3, 13165-13166.3, 13132-13133.3  
"Location:  
University Land 09 #1803H Stage 4 of 40 Date:  
04/21/14 Start – 13:36  
End – 15:56  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1601 PSI  
Ball Seat Volume 231 BBLS  
Initial Breakdown 4405 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6670 PSI  
Pad Volume 251 BBLS

100 Mesh sand Stages 0.50—1.25 PPA  
Total 100 Mesh Pumped 49320 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 239280 BBLS

Garnet RCS 40/70 sand stages 2.00 PPA  
Total Garnet RCS 40/70 41920 LBS

Flush 355 BBLS  
ISIP 2542 PSI  
Frac Gradient 0.76 Psi/ft  
5min drop 1920 PSI  
Total proppant 330520 LBS  
Total fluid to recover 6760 BBLS  
Total fresh water 2673 BBLS  
Total produced fluid 4087 BBLS  
Average Rate 64.4 BPM  
Average Pressure 6736 PSI  
Max Pressure 7506 PSI  
Stage Comments:"  
Wireline stage 5 pumped a total of 180 bbls with a maximum pumping pressure of 3484 psi set the plug at a depth of 13090 perforations from : 13075-13076.3, 13050-13051.3, 13032-13033.3, 12999-13000.3, 12966-12967.3  
"Location:  
University Land 09 #1803H Stage 5 of 40 Date:  
04/21/14 Start –17:07  
End – 19:19  
Consultant:  
Randy Hagen Service Company:  
UPP Treater:  
Brian Falls  
Initial Well-Head Pressure 1570 PSI  
Ball Seat Volume 244 BBLS  
Initial Breakdown 4822 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6305 PSI  
Pad Volume 327 BBLS

100 Mesh sand Stages 0.50—1.00 PPA  
Total 100 Mesh Pumped 48040 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 241580 BBLS





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# Wellwork Chronological Regulatory Report

Garnet RCS 40/70 sand stages 1.75 PPA  
Total Garnet RCS 40/70 40540 LBS

Flush 351 BBLS  
ISIP 2409 PSI  
Frac Gradient 0.74 Psi/ft  
5min drop 1975 PSI  
Total proppant 330160 LBS  
Total fluid to recover 7157 BBLS  
Total fresh water 2160 BBLS  
Total produced fluid 4997 BBLS  
Average Rate 68.2 BPM  
Average Pressure 6045 PSI  
Max Pressure 6938 PSI  
Stage Comments:"

Wireline stage 6 pumped a total of 175 bbls with a maximum pumping pressure of 3001 psi set the plug at a depth of 12946 perforations from : 12932-12933.3, 12899-12900.3, 12866-12867.3, 12833-12834.3, 12798-12799.3

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -20:21

End - 22:31

Consultant:

Randy Hagen / Justin Stringer Service Company:

UPP Treater:

Brian Falls

Initial Well-Head Pressure 1608 PSI

Ball Seat Volume 223 BBLS

Initial Breakdown 4512 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 7,020 PSI

Pad Volume 402 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48,100 LBS

Ottawa 40/70 sand stages .75-2.25 ppg PPA  
Total Ottawa 40/70 240,460 BBLS

Garnet RCS 40/70 sand stages 2.25 ppg PPA  
Total Garnet RCS 40/70 40,940 LBS

Flush 347 BBLS  
ISIP 2,771 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2,061 PSI  
Total proppant 329,500 LBS  
Total fluid to recover 6,806 BBLS  
Total fresh water 3,648 BBLS  
Total produced fluid 3,158 BBLS  
Average Rate 68 BPM  
Average Pressure 6,206 PSI  
Max Pressure 6,747 PSI  
Stage Comments:"

Wireline Stage 7 pumped a total of 184 bbls with a maximum pumping pressure of 3,347 psi set the plug on depth at 12,780 ft perforations from:12630-12631.30, 12667-12668.15, 12700-12701.15, 12733-12734.15, 12766-12767

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -23:36

End - 01:51

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Falls

Initial Well-Head Pressure 1,802 PSI

Ball Seat Volume 232 BBLS

Initial Breakdown 5,117 PSI

Acid Volume (7.5% HCL) 52 BBLS

Acid Break Down 6,750 PSI

Pad Volume 431 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,420 LBS

Ottawa 40/70 sand stages 1.00-2.00 ppg PPA  
Total Ottawa 40/70 238,040 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39,680 LBS

Flush 343 BBLS  
ISIP 2,501 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2,040 PSI  
Total proppant 326,140 LBS  
Total fluid to recover 7,037 BBLS



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Total fresh water 2,193 BBLS  
Total produced fluid 4,844 BBLS  
Average Rate 67.2 BPM  
Average Pressure 6,082 PSI  
Max Pressure 6,622 PSI  
Stage Comments:"  
Wireline stage 8 pumped a total of 161 bbls of water with a maximum pumping pressure of 3,036 psi set the plug at a depth of 12,614 ft perforations from:12468-12469.30, 12501-12502.15, 12534-12535.15, 12567-12568.15, 12600-12601  
"Location:  
University Land 09 #1803H Stage 8 of 40 Date:  
04/21/14 Start -02:55  
End - 04:55  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1783 PSI  
Ball Seat Volume 232 BBLS  
Initial Breakdown 5117 PSI  
Acid Volume (7.5% HCL) 50 BBLS  
Acid Break Down 6550 PSI  
Pad Volume 281 BBLS  
  
100 Mesh sand Stages 0.5-1.50 ppg PPA  
Total 100 Mesh Pumped 47060 LBS  
  
Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240100 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 ppg PPA  
Total Garnet RCS 40/70 39840 LBS  
  
Flush 339 BBLS  
ISIP 2927 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2079 PSI  
Total proppant 327000 LBS  
Total fluid to recover 5979 BBLS  
Total fresh water 3601 BBLS  
Total produced fluid 2378 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5611 PSI  
Max Pressure 6638 PSI  
Stage Comments:"  
Wireline stage 9 pumped a total of 167 bbls of water with a maximum pumping pressure of 3480 psi set the plug at a depth of 12448 ft perforations from : 12434-12435.3, 12404-12405.3, 12368-12369.3, 12335-12336.3, 12302-12303.3

## Daily Summary

Activity Date:	4/23/2014	Days on Compl:	17	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks  
"Location:  
University Land 09 #1803H Stage 9 of 40 Date:  
04/22/14 Start - 05:54  
End - 07:51  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1815 PSI  
Ball Seat Volume 225 BBLS  
Initial Breakdown 4409 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6430 PSI  
Pad Volume 156 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48120 LBS  
  
Ottawa 40/70 sand stages 1.00-2.50 PPA  
Total Ottawa 40/70 243700 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 PPA  
Total Garnet RCS 40/70 39520 LBS  
  
Flush 335 BBLS  
ISIP 2808 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2056 PSI  
Total proppant 331340 LBS  
Total fluid to recover 5814 BBLS  
Total fresh water 3649 BBLS  
Total produced fluid 2165 BBLS



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# Wellwork Chronological Regulatory Report

Average Rate 62.5 BPM  
Average Pressure 5644 PSI  
Max Pressure 6712 PSI  
Stage Comments:"  
Wireline stage 10 pumped a total of 166 bbls of water with a maximum pumping pressure of 3375 psi set the plug at a depth of 12282 ft perforations from : 12262-12263.3, 12235-12236.3, 12202-12203.3, 12169-12170.3, 12132-12133.3  
"Location:  
University Land 09 #1803H Stage 10 of 40 Date:  
04/22/14 Start – 08:46  
End – 10:57  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1819 PSI  
Ball Seat Volume 220 BBLS  
Initial Breakdown 5272 PSI  
Acid Volume (7.5% HCL) 41 BBLS  
Acid Break Down 6758 PSI  
Pad Volume 158 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49700 LBS  
  
Ottawa 40/70 sand stages .25-2.25 PPA  
Total Ottawa 40/70 239360 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 332 BBLS  
ISIP 2909 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2089 PSI  
Total proppant 328980 LBS  
Total fluid to recover 6802 BBLS  
Total fresh water 3715 BBLS  
Total produced fluid 3087 BBLS  
Average Rate 64.3 BPM  
Average Pressure 6156 PSI  
Max Pressure 7123 PSI  
Stage Comments:"  
Wireline stage 11 pumped a total of 151 bbls of water with a maximum pumping pressure of 3450 psi set the plug at a depth of 12116 ft perforations from : 12102-12103.3, 12069-12070.3, 12036-12037.3, 12000-12001.3, 11972-11973.3  
"Location:  
University Land 09 #1803H Stage 11 of 40 Date:  
04/22/14 Start – 12:06  
End – 14:03  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1734 PSI  
Ball Seat Volume 215 BBLS  
Initial Breakdown 2345 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6560 PSI  
Pad Volume 131 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49160 LBS  
  
Ottawa 40/70 sand stages .50-3.00 PPA  
Total Ottawa 40/70 237880 BBLS  
  
Garnet RCS 40/70 sand stages 3.25 PPA  
Total Garnet RCS 40/70 38920 LBS  
  
Flush 332 BBLS  
ISIP 3571 PSI  
Frac Gradient .89 Psi/ft  
5min drop 2700 PSI  
Total proppant 352960 LBS  
Total fluid to recover 5992 BBLS  
Total fresh water 1953 BBLS  
Total produced fluid 4039 BBLS  
Average Rate 65.5 BPM  
Average Pressure 5833 PSI  
Max Pressure 6326 PSI  
Stage Comments:"  
Wireline stage 12 pumped a total of 137 bbls of water with a maximum pumping pressure of 4075 psi set the plug at a depth of 11946 ft perforations from : 11932-11933.3, 11903-11904.3, 11870-11871.3, 11840-11841.3, 11804-11805.3  
Greasing the wellhead  
"Location:  
University Land 09 #1803H Stage 12 of 40 Date:  
04/22/14 Start – 15:32



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# Wellwork Chronological Regulatory Report

End – 17:08  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1867 PSI  
Ball Seat Volume 92 BBLS  
Initial Breakdown 4470 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 537 BBLS

100 Mesh sand Stages .50 – 2.00 ppg PPA  
Total 100 Mesh Pumped 49,060 LBS

Ottawa 40/70 sand stages 2.00-2.25 ppg PPA  
Total Ottawa 40/70 238,900 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40,240 LBS

Flush 328 BBLS  
ISIP 3186 PSI  
Frac Gradient .84 Psi/ft  
5min drop 2138 PSI  
Total proppant 328,200 LBS  
Total fluid to recover 5036 BBLS  
Total fresh water 855 BBLS  
Total produced fluid 4181 BBLS  
Average Rate 58.7 BPM  
Average Pressure 5474 PSI  
Max Pressure 6940 PSI  
Stage Comments:"  
Wireline stage 13 pumped a total of 139 bbls of water with a maximum pumping pressure of 3905 psi set the plug at a depth of 11774 ft perforations from : 11638-11639.30, 11671-11672.15, 11707-11708.15, 11737-11738.15, 11760-11761  
"Location:  
University Land 09 #1803H Stage 13 of 40 Date:  
04/22/14 Start – 18:31  
End – 20:49  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1726 PSI  
Ball Seat Volume 196 BBLS  
Initial Breakdown 4955 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 7050 PSI  
Pad Volume 524 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48200 LBS

Ottawa 40/70 sand stages .50-2.25 ppg PPA  
Total Ottawa 40/70 240760 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 41000 LBS

Flush 322 BBLS  
ISIP 2939 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2089 PSI  
Total proppant 329960 LBS  
Total fluid to recover 6922 BBLS  
Total fresh water 2605 BBLS  
Total produced fluid 4317 BBLS  
Average Rate 56 BPM  
Average Pressure 5689 PSI  
Max Pressure 6491 PSI  
Stage Comments:"  
Wireline stage 14 pumped a total of 133 bbls of water with a maximum pumping pressure of 3629 psi set the plug at a depth of 11618 ft perforations from :11472-11473.30, 11505-11506.15, 11538-11539.15, 11571-11572.15, 11604-11605  
"Location:  
University Land 09 #1803H Stage 14 of 40 Date:  
04/22/14 Start – 21:49  
End – 23:50  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1781 PSI  
Ball Seat Volume 199 BBLS  
Initial Breakdown 4810 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6900 PSI



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Pad Volume 540 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48100 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240140 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40060 LBS

Flush 319 BBLS  
ISIP 3271 PSI  
Frac Gradient .85 Psi/ft  
5min drop 1973 PSI  
Total proppant 328300 LBS  
Total fluid to recover 5704 BBLS  
Total fresh water 1922 BBLS  
Total produced fluid 3782 BBLS  
Average Rate 52.6 BPM  
Average Pressure 5248 PSI  
Max Pressure 6185 PSI  
Stage Comments:"  
Wireline stage 15 pumped a total of 138 bbls of water with a maximum pumping pressure of 3577 psi set the plug at a depth of 11452 ft perforations from :11306-11307.30, 11339-11340.15, 11372-11373.15, 11404-11405.15, 11438-11439  
"Location:  
University Land 09 #1803H Stage 15 of 40 Date:  
04/22/14 Start – 12:41  
End – 03:06  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1713 PSI  
Ball Seat Volume 200 BBLS  
Initial Breakdown 4631 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 497 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 239960 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39760 LBS

Flush 315 BBLS  
ISIP 3492 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2228 PSI  
Total proppant 327940 LBS  
Total fluid to recover 7507 BBLS  
Total fresh water 5660 BBLS  
Total produced fluid 1847 BBLS  
Average Rate 60.9 BPM  
Average Pressure 6013 PSI  
Max Pressure 6862 PSI  
Stage Comments:"  
Wireline stage 16 pumped a total of 129 bbls of water with a maximum pumping pressure of 4122 psi set the plug at a depth of 11280 ft perforations from: 11140-11141.30, 11173-11174.15, 11206-11207.15, 11239-11240.15, 11266-11267  
Start stage 16

## Daily Summary

Activity Date:	4/24/2014	Days on Compl:	18	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks  
"Location:  
University Land 09 #1803H Stage 16 of 40 Date:  
04/23/14 Start – 04:04  
End – 05:50  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1977 PSI  
Ball Seat Volume 201 BBLS  
Initial Breakdown 4513 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6420 PSI  
Pad Volume 106 BBLS



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100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48000 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 238400 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40780 LBS

Flush 308 BBLs  
ISIP 2889 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2082 PSI  
Total proppant 327180 LBS  
Total fluid to recover 5338 BBLs  
Total fresh water 3689 BBLs  
Total produced fluid 1649 BBLs  
Average Rate 62.1 BPM  
Average Pressure 5487 PSI  
Max Pressure 6494 PSI  
Stage Comments:"

Wireline stage 17 pumped a total of 113 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 11116 ft perforations from : 11100-11101.3, 11073-11074.3, 11040-11041.3, 11007-11008.3, 10974-10975.3

"Location:

University Land 09 #1803H Stage 17 of 40 Date:

04/23/14 Start – 06:49

End – 08:30

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1794 PSI

Ball Seat Volume 193 BBLs

Initial Breakdown 4645 PSI

Acid Volume (7.5% HCL) 40 BBLs

Acid Break Down 6890 PSI

Pad Volume 158 BBLs

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47440 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239500 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40140 LBS

Flush 305 BBLs  
ISIP 4500 PSI  
Frac Gradient 1.01 Psi/ft  
5min drop 2312 PSI  
Total proppant 327080 LBS  
Total fluid to recover 4958 BBLs  
Total fresh water 3492 BBLs  
Total produced fluid 1466 BBLs  
Average Rate 66.5 BPM  
Average Pressure 5809 PSI  
Max Pressure 7615 PSI  
Stage Comments:"

Wireline stage 18 pumped a total of 114 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10954 ft perforations from : 10940-10941.3, 10907-10908.3, 10874-10875.3, 10841-10842.3, 10808-10809.3

"Location:

University Land 09 #1803H Stage 18 of 40 Date:

04/23/14 Start – 09:21

End – 11:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 2027 PSI

Ball Seat Volume 196 BBLs

Initial Breakdown 4651 PSI

Acid Volume (7.5% HCL) 40 BBLs

Acid Break Down 6875 PSI

Pad Volume 127 BBLs

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47280 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239560 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39560 LBS



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# Wellwork Chronological Regulatory Report

Flush 301 BBLS  
ISIP 3240 PSI  
Frac Gradient .85 Psi/ft  
5min drop 2095 PSI  
Total proppant 326400 LBS  
Total fluid to recover 5104 BBLS  
Total fresh water 3227 BBLS  
Total produced fluid 1777 BBLS  
Average Rate 64.6 BPM  
Average Pressure 5579 PSI  
Max Pressure 6854 PSI  
Stage Comments:"  
Wireline stage 19 pumped a total of 118 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10788 ft perforations from : 10771-10775.3, 10741-10742.3, 10708-10709.3, 10675-10676.3, 10642-10643.3  
"Location:  
University Land 09 #1803H Stage 19 of 40 Date:  
04/23/14 Start – 11:59  
End – 13:39  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1774 PSI  
Ball Seat Volume 174 BBLS  
Initial Breakdown 4861 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6749 PSI  
Pad Volume 103 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48040 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240460 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39200 LBS  
  
Flush 297 BBLS  
ISIP 3529 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2437 PSI  
Total proppant 327700 LBS  
Total fluid to recover 5067 BBLS  
Total fresh water 3392 BBLS  
Total produced fluid 1675 BBLS  
Average Rate 65.0 BPM  
Average Pressure 5305 PSI  
Max Pressure 6657 PSI  
Stage Comments:"  
Wireline stage 20 pumped a total of 123 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10618 ft perforations from : 10600-10601.3, 10575-10576.3, 10542-10543.3, 10509-10510.3, 10476-10477.3  
"Location:  
University Land 09 #1803H Stage 20 of 40 Date:  
04/23/14 Start – 14:34  
End – 16:16  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1898 PSI  
Ball Seat Volume 180 BBLS  
Initial Breakdown 4510 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6783 PSI  
Pad Volume 213 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49960 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240000 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 41600 LBS  
  
Flush 293 BBLS  
ISIP 2915 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2076 PSI  
Total proppant 331580 LBS  
Total fluid to recover 5224 BBLS  
Total fresh water 3461 BBLS  
Total produced fluid 1763 BBLS  
Average Rate 63.7 BPM  
Average Pressure 5095 PSI



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# Wellwork Chronological Regulatory Report

Max Pressure 6484 PSI  
Stage Comments:"  
Wireline stage 21 pumped a total of 111 bbls of water with a maximum pumping pressure of 4114 psi set the plug at a depth of 10456 ft perforations from :10310-10311.30, 10343-10344.15, 10376-10377.15, 10409-10410.15, 10442-10443  
"Location:  
University Land 09 #1803H Stage 21 of 40 Date:  
04/23/14 Start – 17:14  
End – 18:51  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1858 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 4300 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 6500 PSI  
Pad Volume 373 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49080 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 236863 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 289 BBLS  
ISIP 2546 PSI  
Frac Gradient .78 Psi/ft  
5min drop 2050 PSI  
Total proppant 325863 LBS  
Total fluid to recover 5033 BBLS  
Total fresh water 903 BBLS  
Total produced fluid 4103 BBLS  
Average Rate 64 BPM  
Average Pressure 5165 PSI  
Max Pressure 6100 PSI  
Stage Comments:"  
Wireline stage 22 pumped a total of 87 bbls of water with a maximum pumping pressure of 3016 psi set the plug at a depth of 10290 ft perforations from :10144-10145.30, 10177-10178.15, 10210-10211.15, 10246-10247.15, 10276-10277  
"Location:  
University Land 09 #1803H Stage 22 of 40 Date:  
04/23/14 Start – 19:37  
End – 21:22  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1779 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 3906 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 311 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48020 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240440 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 50100 LBS  
  
Flush 285 BBLS  
ISIP 2526 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2050 PSI  
Total proppant 338560 LBS  
Total fluid to recover 5369 BBLS  
Total fresh water 1554 BBLS  
Total produced fluid 3815 BBLS  
Average Rate 68.5 BPM  
Average Pressure 5197 PSI  
Max Pressure 6127 PSI  
Stage Comments:"  
Wireline stage 23 pumped a total of 83 bbls of water with a maximum pumping pressure of 3368 psi set the plug at a depth of 10124 ft perforations from :9978-9979.30, 10011-10012.15, 10044-10045.15, 10077-10078.15, 10110-10111  
"Location:  
University Land 09 #1803H Stage 23 of 40 Date:  
04/23/14 Start – 22:07  
End – 23:51  
Consultant:  
Justin Stringer Service Company:





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# Wellwork Chronological Regulatory Report

UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1679 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 5051 PSI  
Acid Volume (7.5% HCL) 53 BBLS  
Acid Break Down 6700 PSI  
Pad Volume 306 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48720 LBS

Ottawa 40/70 sand stages 1.00-2.50 ppg PPA  
Total Ottawa 40/70 238820 BBLS

Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 281 BBLS  
ISIP 2527 PSI  
Frac Gradient .75 Psi/ft  
5min drop 1820 PSI  
Total proppant 327620 LBS  
Total fluid to recover 5161 BBLS  
Total fresh water 1222 BBLS  
Total produced fluid 3939 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5078 PSI  
Max Pressure 5960 PSI  
Stage Comments:"  
Wireline stage 24 pumped a total of 77 bbls of water with a maximum pumping pressure of 3178 psi set the plug at a depth of 9958 ft perforations from: 9812-9813.30, 9845-9846.15, 9880-9881.15, 9911-9912.15, 9944-9945  
"Location:  
University Land 09 #1803H Stage 24 of 40 Date:  
04/23/14 Start – 24:39  
End – 02:17  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1642 PSI  
Ball Seat Volume 167 BBLS  
Initial Breakdown 6069 PSI  
Acid Volume (7.5% HCL) 44 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 348 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 240500 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 40280 LBS

Flush 278 BBLS  
ISIP 2784 PSI  
Frac Gradient .79 Psi/ft  
5min drop 1890 PSI  
Total proppant 329580 LBS  
Total fluid to recover 5066 BBLS  
Total fresh water 1277 BBLS  
Total produced fluid 3789 BBLS  
Average Rate 70 BPM  
Average Pressure 5159 PSI  
Max Pressure 6988 PSI  
Stage Comments:"  
Wireline stage 25 pumped a total of 71 bbls of water with a maximum pumping pressure of 3314 psi set the plug at a depth of 9792 ft perforations from:9646-9647.30, 9679-9680.15, 9712-9713.15, 9740-9741.15, 9778-9779  
greasing well head  
Start stage 26

## Daily Summary

<b>Activity Date:</b>	4/25/2014	<b>Days on Compl:</b>	19	<b>TD (TVD):</b>	0'
<b>Rig Company:</b>		<b>Rig Name:</b>		<b>TD (MD):</b>	0'
<b>24 Hour Summary:</b>	Remarks "Location: University Land 09 #1803H Stage 25 of 40 Date: 04/24/14 Start – 03:43 End – 07:47 Consultant: Justin Stringer Service Company:				



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# Wellwork Chronological Regulatory Report

UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1539 PSI  
Ball Seat Volume 56 BBLS  
Initial Breakdown 4820 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 7132 PSI  
Pad Volume 22 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240180 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39780 LBS

Flush 1861 BBLS  
ISIP 3727 PSI  
Frac Gradient .91 Psi/ft  
5min drop 2560 PSI  
Total proppant 328180 LBS  
Total fluid to recover 6647 BBLS  
Total fresh water 2774 BBLS  
Total produced fluid 3873 BBLS  
Average Rate 64.9 BPM  
Average Pressure 6037 PSI  
Max Pressure 7010 PSI  
Stage Comments:"  
Wireline stage 26 pumped a total of 64 bbls of water with a maximum pumping pressure of 4780 psi set the plug at a depth of 9626 ft perforations from : 9610-9611.3, 9579-9580.3, 9546-9547.3, 9513-9514.3, 9478-9479.3  
Universal workingon pump trucks  
"Location:  
University Land 09 #1803H Stage 26 of 40 Date:  
04/24/14 Start – 09:42  
End – 11:13  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1633 PSI  
Ball Seat Volume 146 BBLS  
Initial Breakdown 1531 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 6360 PSI  
Pad Volume 103 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 39960 LBS

Ottawa 40/70 sand stages 1.00-3.50 PPA  
Total Ottawa 40/70 242560 BBLS

Garnet RCS 40/70 sand stages 4.00 PPA  
Total Garnet RCS 40/70 323120 LBS

Flush 272 BBLS  
ISIP 3950 PSI  
Frac Gradient .81 Psi/ft  
5min drop 1950 PSI  
Total proppant 323120 LBS  
Total fluid to recover 4653 BBLS  
Total fresh water 1189 BBLS  
Total produced fluid 3464 BBLS  
Average Rate 67.0 BPM  
Average Pressure 5409 PSI  
Max Pressure 6296 PSI  
Stage Comments:"  
Wireline stage 27 pumped a total of 63 bbls of water with a maximum pumping pressure of 4010 psi set the plug at a depth of 9460 ft perforations from : 9446-9447.3, 9408-9409.3, 9380-9381.3, 9343-9434.3, 9314-9315.3  
"Location:  
University Land 09 #1803H Stage 27 of 40 Date:  
04/24/14 Start – 12:00  
End – 13:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1761 PSI  
Ball Seat Volume 133 BBLS  
Initial Breakdown 4585 PSI  
Acid Volume (7.5% HCL) 43 BBLS  
Acid Break Down 6701 PSI  
Pad Volume 84 BBLS



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100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48600 LBS

Ottawa 40/70 sand stages 1.50-3.50 PPA  
Total Ottawa 40/70 240620 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 268 BBLS  
ISIP 2521 PSI  
Frac Gradient .75 Psi/ft  
5min drop 1950 PSI  
Total proppant 329440 LBS  
Total fluid to recover 4788 BBLS  
Total fresh water 563 BBLS  
Total produced fluid 4225 BBLS  
Average Rate 62.8 BPM  
Average Pressure 5493 PSI  
Max Pressure 6658 PSI  
Stage Comments:"

Wireline stage 28 pumped a total of 61 bbls of water with a maximum pumping pressure of 4010 psi set the plug at a depth of 9288 ft perforations from : 9276-9277.3, 9247-9248.3, 9214-9215.3, 9181-9182.3, 9148-9149.3

"Location:

University Land 09 #1803H Stage 28 of 40 Date:

04/24/14 Start – 14:20

End – 16:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

J. Rodriguez

Initial Well-Head Pressure 1641 PSI

Ball Seat Volume 155 BBLS

Initial Breakdown 4827 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 5950 PSI

Pad Volume 166 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,220 LBS

Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 239,740 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 41,580 LBS

Flush 263 BBLS  
ISIP 3,286 PSI  
Frac Gradient .85 Psi/ft  
5min drop 2,100 PSI  
Total proppant 329,540 LBS  
Total fluid to recover 5,411 BBLS  
Total fresh water 1544 BBLS  
Total produced fluid 2467 BBLS  
Average Rate 63.8 BPM  
Average Pressure 5,732 PSI  
Max Pressure 6,421 PSI  
Stage Comments:"

Wireline stage 29 pumped a total of 57 bbls of water with a maximum pumping pressure of 3770 psi set the plug at a depth of 9128 ft perforations from: 8982-8983.30, 9015-9016.15, 9048-9049.15, 9048-9049.15, 9080-9081.15, 9114-9115

"Location:

University Land 09 #1803H Stage 29 of 40 Date:

04/24/14 Start – 16:46

End – 18:14

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1747 PSI

Ball Seat Volume 146 BBLS

Initial Breakdown 4611 PSI

Acid Volume (7.5% HCL) 50 BBLS

Acid Break Down 6600 PSI

Pad Volume 340 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49,800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 237,620 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 40,020 LBS

Flush 259 BBLS



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# Wellwork Chronological Regulatory Report

ISIP 2,678 PSI  
Frac Gradient .77 Psi/ft  
5min drop 1,930 PSI  
Total proppant 327,440 LBS  
Total fluid to recover 4355 BBLS  
Total fresh water 1,097 BBLS  
Total produced fluid 3,258 BBLS  
Average Rate 69.2 BPM  
Average Pressure 4,923 PSI  
Max Pressure 5,784 PSI  
Stage Comments:"  
Wireline stage 30 pumped a total of 47 bbls of water with a maximum pumping pressure of 3122 psi set the plug at a depth of 8962 ft perforations from: 8816-8817.30, 8849-8850.15, 8882-8883.15, 8915-8916.15, 8948-8949  
"Location:  
University Land 09 #1803H Stage 30 of 40 Date:  
04/24/14 Start – 18:52  
End – 20:34  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuleta  
Initial Well-Head Pressure 1,610 PSI  
Ball Seat Volume 145 BBLS  
Initial Breakdown 4,662 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 6,800 PSI  
Pad Volume 190 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,040 LBS  
  
Ottawa 40/70 sand stages 1.50-2.50 ppg PPA  
Total Ottawa 40/70 143,860 BBLS  
  
Garnet RCS 40/70 sand stages .50-1.00 ppg PPA  
Total Garnet RCS 40/70 31,360 LBS  
  
Flush 258 BBLS  
ISIP 3,040 PSI  
Frac Gradient .82 Psi/ft  
5min drop 1,718 PSI  
Total proppant 223,260 LBS  
Total fluid to recover 5,171 BBLS  
Total fresh water 1,938 BBLS  
Total produced fluid 3,233 BBLS  
Average Rate 64.5 BPM  
Average Pressure 5,559 PSI  
Max Pressure 6,816 PSI  
Stage Comments:"  
Wireline stage 31 pumped a total of 42 bbls of water with a maximum pumping pressure of 3489 psi set the plug at a depth of 8796 ft perforations from: 8650-8651.30, 8683-8684.15, 8718-8719.15, 8749-8750.15, 8782-8783  
"Location:  
University Land 09 #1803H Stage 31 of 40 Date:  
04/24/14 Start – 21:11  
End – 22:46  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuleta  
Initial Well-Head Pressure 3,387 PSI  
Ball Seat Volume 136 BBLS  
Initial Breakdown 4,573 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6,450 PSI  
Pad Volume 230 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49,020 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 241,580 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 40,600 LBS  
  
Flush 252 BBLS  
ISIP 3,387 PSI  
Frac Gradient .86 Psi/ft  
5min drop 2,102 PSI  
Total proppant 331,200 LBS  
Total fluid to recover 4,794 BBLS  
Total fresh water 2,868 BBLS  
Total produced fluid 1,926 BBLS  
Average Rate 61.1 BPM  
Average Pressure 4,989 PSI  
Max Pressure 6,484 PSI



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## Stage Comments:"

Wireline stage 32 pumped a total of 39 bbls of water with a maximum pumping pressure of 3176 psi set the plug at a depth of 8630 ft perforations from: 8484-8485.30, 8515-8516.15, 8550-8551.15, 8586-8587.15, 8616-8617

"Location:

University Land 09 #1803H Stage 32 of 40 Date:

04/24/14 Start – 23:24

End – 01:10

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1,808 PSI

Ball Seat Volume 135 BBLS

Initial Breakdown 4,586 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 5,900 PSI

Pad Volume 143 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 47,760 LBS

Ottawa 40/70 sand stages .50-3.00 ppg PPA

Total Ottawa 40/70 239,440 BBLS

Garnet RCS 40/70 sand stages 50,520 PPA

Total Garnet RCS 40/70 3.50 ppg LBS

Flush 247 BBLS

ISIP 3,410 PSI

Frac Gradient .87 Psi/ft

5min drop 2,020 PSI

Total proppant 337,720 LBS

Total fluid to recover 5,472 BBLS

Total fresh water 3,474 BBLS

Total produced fluid 1,998 BBLS

Average Rate 68 BPM

Average Pressure 4,713 PSI

Max Pressure 5,320 PSI

Stage Comments:"

Wireline stage 33 pumped a total of 34 bbls of water with a maximum pumping pressure of 3620 psi set the plug at a depth of 8464 ft perforations from: 8318-8319.30, 8351-8352.15, 8384-8385.15, 8417-8418.15, 8446-8447

"Location:

University Land 09 #1803H Stage 33 of 40 Date:

04/24/14 Start – 01:45

End – 03:21

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1,829 PSI

Ball Seat Volume 131 BBLS

Initial Breakdown 5,269 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 6,879 PSI

Pad Volume 79 BBLS

100 Mesh sand Stages .50-1.50 PPA

Total 100 Mesh Pumped 48020 LBS

Ottawa 40/70 sand stages 1.50-3.00 PPA

Total Ottawa 40/70 239720 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA

Total Garnet RCS 40/70 39640 LBS

Flush 243 BBLS

ISIP 4072 PSI

Frac Gradient .95 Psi/ft

5min drop 1960 PSI

Total proppant 327640 LBS

Total fluid to recover 4851 BBLS

Total fresh water 3042 BBLS

Total produced fluid 1809 BBLS

Average Rate 60.2 BPM

Average Pressure 4824 PSI

Max Pressure 5635 PSI

Stage Comments:"

Wireline stage 34 pumped a total of 25 bbls of water with a maximum pumping pressure of 3760 psi set the plug at a depth of 8298 ft perforations from : 8284-8285.3, 8251-8252.3, 8218-8219.3, 8185-8186.3, 8152-8153.3

"Location:

University Land 09 #1803H Stage 34 of 40 Date:

04/25/14 Start – 03:59

End – 05:30

Consultant:

Storm McDonald Service Company:

UPP Treater:



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# Wellwork Chronological Regulatory Report

J. Rodriguez  
Initial Well-Head Pressure 1900 PSI  
Ball Seat Volume 128 BBLS  
Initial Breakdown 4312 PSI  
Acid Volume (7.5% HCL) 54 BBLS  
Acid Break Down 6458 PSI  
Pad Volume 48 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 50280 LBS  
  
Ottawa 40/70 sand stages 1.50-3.50 PPA  
Total Ottawa 40/70 241220 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 42220 LBS  
  
Flush 239 BBLS  
ISIP 3355 PSI  
Frac Gradient .86 Psi/ft  
5min drop 2150 PSI  
Total proppant 333720 LBS  
Total fluid to recover 4657 BBLS  
Total fresh water 3038 BBLS  
Total produced fluid 1619 BBLS  
Average Rate 62.3 BPM  
Average Pressure 4970 PSI  
Max Pressure 6339 PSI  
Stage Comments:"  
Set kill plug at 7250

## Daily Summary

Activity Date:	4/26/2014	Days on Compl:	20	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Water to Recover Total (bbls) 195,521  100 Mesh Total lbs 1,686,300  47/70 Total lbs 7,772,191  RCS Total lbs 1,368,040  Total lbs of proppant 10,826,531				

## Daily Summary

Activity Date:	5/1/2014	Days on Compl:	25	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Rig up Drillout services Released 6 light plants from RPW 4 remaining 04-30-14. Released 6 toilets and 1 trash trailer from energy waste 2 toilets and 1 trash trailer remaining 04-30-14 Released 1 500 bbl opent top with gas buster from Wolverine 04-30-14  Rig up completions rig, Mixing plant, well heads , flow lines, tanks, Fesco drill out equipment, BOP and function test, pressure test surface equipment to 2500#, pressure wash and clen threads on PH-6 drill pipe. Waiting on TTS tool Hand. Make up TTS BHA, Roller cone bit, Rotary sub, Titan mud motor, Back pressure valve, AV sub, Rotary sub, 2 flapper valves, test motor. TIH with TTS BHA and 2 7/8 PH-6 drill pipe.				

## Daily Summary

Activity Date:	5/2/2014	Days on Compl:	26	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'



# Wellwork Chronological Regulatory Report

## 24 Hour Summary:

Talked about ranch rules and over head safety.  
TIH to kill plug w/2 7/8 PH-6 8.7# work string and TTS BHA.  
Drillout Kill Plug w/ jt 231 (7159'/kb) in 5 minutes, FCP - 600#, circulating pressure - 5500# @ 6.5 bpm in & 6.5 bpm out, pump 10 bbl 100 vis sweep, circulate sweep to surface in 20 minutes. Continue TIH to Plug #1.  
Tag Plug #1 w/ jt 264 (8298'/kb). Drill plug in 9 mins @6.5 BPM in & 6.5 BPM out FCP 700#, Circulating Pressure 5214#, very light sand, TIH to Plug #2.  
Tag Plug #2 w/ jt 270 (8464'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 750#, Circulating Pressure 5500#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #3.  
Tag Plug #3 w/ jt 275 (8630'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 580#, Circulating Pressure 5740#, very light sand, TIH to Plug #4.  
Tag Plug #4 w/ jt 280 (8796'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 750#, Circulating Pressure 5830#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #5.  
Laydown machine broke down start picking pipe up by hand, Tag Plug #5 w/ jt 286 (8962'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 650#, Circulating Pressure 5800#, very light sand, TIH to Plug #6.  
Tag Plug #6 w/ jt 291 (9128'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 600#, Circulating Pressure 6200#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #7.  
Tag Plug #7 w/ jt 296 (9288'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6300#, very light sand, TIH to Plug #8.  
Tag Plug #8 w/ jt 302 (9626'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 5600#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #9.  
Tag Plug #9 w/ jt 307 (9792'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6400#, very light sand, TIH to Plug #10.  
Tag Plug #10 w/ jt 312 (9958'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 480#, Circulating Pressure 6500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #11.  
Circulating 10bbl 100 vis sweep bottoms up.  
Circulating 10bbl 100 vis sweep bottoms up.  
Tag Plug #11 w/ jt 317 (9958'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 560#, Circulating Pressure 5500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #12.  
Tag Plug #12 w/ jt 323 (10124'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 520#, Circulating Pressure 5400#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #13.  
Tag Plug #13 w/ jt 328 (10290'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 5500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #14.  
Pulled threads on joint in slips @ jt 331, tried to screw back in could not screw back in.  
Waiting on 3 1/8 and 2 1/4 sphere over shot, circulating with TIW valve @ 3 bpm in & 3 bpm out.  
Run over shot on pipe.



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# Wellwork Chronological Regulatory Report

## Well Name: UNIVERSITY 09 #1803H

Field:	Lin (Wolfcamp)	S/T/R:	/ /	County, State:	
Location Desc:					
Operator:	Enduring Resources, LLC	Project Type:	Completion	District:	Southern
Project AFE:	DV02028	AFE's Associated:	/ / /	API:	
Supervisor:		Phone:			
Production Cur/Exp   Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

### Daily Summary

Activity Date:	4/8/2014	Days on Compl:	2	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Waiting on service companies to arrive  
Rig up frac sleeve, well head, flowcross, flow back equipment, wireline, and pumps.  
Waiting for wireline unit to finish logging the 09-1825H.  
RIH to 8,179' and log out. Cement top was seen at 6,400'.  
Rig down for the day.  
Well shut in till next morning.

### Daily Summary

Activity Date:	4/9/2014	Days on Compl:	3	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Went over daily activities that are to be performed & to pay attention to high pressure lines and have clear communication. No speeding on lease roads.  
Pressure test flow cross, pump iron and choke manifold, pressure test held at 8000psi  
Broke down shoe @ 4bbl/min at 5800psi then fell to 3500psi & pumped 350bbl. Well stabilized at 2300psi  
Rig in wireline Unit, opened well up @ 2300psi  
RIH and set bridge plug at 13740', weight change of 150lbs. Conducted pressure test to 8250psi for 15 minutes. P/U and shot perms at 13730, 13705, 13680, 13655, and 13630. POOH and CCL  
Rig down pump and wireline unit.  
Well shut in till frac.

### Daily Summary

Activity Date:	4/15/2014	Days on Compl:	9	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:**

### Daily Summary

Activity Date:	4/21/2014	Days on Compl:	15	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** UL-09-1803H  
Moved in frac and wireline. RU to well.  
Pressure Test  
Safety meeting discussed max pressure and frac run down, wireline operation, water transfer operations  
Start Frac stage 1

### Daily Summary

Activity Date:	4/22/2014	Days on Compl:	16	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks





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# Wellwork Chronological Regulatory Report

## 24 hour Summary

"Location:  
University Land 09 #1803H Stage 1 of 40 Date:  
04/21/14 Start – 04:05  
End – 05:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1176 PSI  
Ball Seat Volume - BBLS  
Initial Breakdown 4350 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 7210 PSI  
Pad Volume 337 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 97000 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 142920 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 20000 LBS

Flush 366 BBLS  
ISIP 2452 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2315 PSI  
Total proppant 259920 LBS  
Total fluid to recover 6976 BBLS  
Total fresh water 4839 BBLS  
Total produced fluid 2137 BBLS  
Average Rate 68 BPM  
Average Pressure 6139 PSI  
Max Pressure 6955 PSI  
Stage Comments:"  
Wireline stage 2 pumped a total of 210 bbls with a maximum pumping pressure of 3275 psi set the plug at a depth of 13605 perforations from : 13590  
-13591.3, 13563-13564.3, 13530-13531.3, 13497-13498.3, 13464-13465.3

"Location:  
University Land 09 #1803H Stage 2 of 40 Date:  
04/21/14 Start – 07:10  
End – 09:04  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1526 PSI  
Ball Seat Volume 253 BBLS  
Initial Breakdown 4736 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6870 PSI  
Pad Volume 234 BBLS

100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 46660 LBS

Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 255388 BBLS

Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 362 BBLS  
ISIP 2623 PSI  
Frac Gradient .77 Psi/ft  
5min drop 1965 PSI  
Total proppant 342268 LBS  
Total fluid to recover 5530 BBLS  
Total fresh water 2524 BBLS  
Total produced fluid 3006 BBLS  
Average Rate 67.9 BPM  
Average Pressure 6310 PSI  
Max Pressure 6783 PSI  
Stage Comments:"  
Wireline stage 3 pumped a total of 179 bbls with a maximum pumping pressure of 3070 psi set the plug at a depth of 13442 perforations from : 13430  
-13431.3, 13397-13398.3, 13364-13365.3, 13334-13335.3, 13298-13299.3

"Location:  
University Land 09 #1803H Stage 3 of 40 Date:  
04/21/14 Start – 10:14  
End – 12:31  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1536 PSI  
Ball Seat Volume 2543 BBLS



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# Wellwork Chronological Regulatory Report

Initial Breakdown 2523 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6752 PSI  
Pad Volume 216 BBLS

100 Mesh sand Stages .5-1.25 PPA  
Total 100 Mesh Pumped 49880 LBS

Ottawa 40/70 sand stages 1-2 PPA  
Total Ottawa 40/70 248640 BBLS

Garnet RCS 40/70 sand stages 2.25 PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 359 BBLS  
ISIP 3016 PSI  
Frac Gradient .82 Psi/ft  
5min drop 1945 PSI  
Total proppant 338600 LBS  
Total fluid to recover 6753 BBLS  
Total fresh water 2966 BBLS  
Total produced fluid 1029 BBLS  
Average Rate 66.6 BPM  
Average Pressure 6560 PSI  
Max Pressure 7136 PSI  
Stage Comments:"  
Wireline stage 4 pumped a total of 187 bbls with a maximum pumping pressure of 4100 psi set the plug at a depth of 13265 perforations from : 13250-13251.3, 13231-13232.3, 13201-13202.3, 13165-13166.3, 13132-13133.3  
"Location:  
University Land 09 #1803H Stage 4 of 40 Date:  
04/21/14 Start – 13:36  
End – 15:56  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1601 PSI  
Ball Seat Volume 231 BBLS  
Initial Breakdown 4405 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6670 PSI  
Pad Volume 251 BBLS

100 Mesh sand Stages 0.50—1.25 PPA  
Total 100 Mesh Pumped 49320 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 239280 BBLS

Garnet RCS 40/70 sand stages 2.00 PPA  
Total Garnet RCS 40/70 41920 LBS

Flush 355 BBLS  
ISIP 2542 PSI  
Frac Gradient 0.76 Psi/ft  
5min drop 1920 PSI  
Total proppant 330520 LBS  
Total fluid to recover 6760 BBLS  
Total fresh water 2673 BBLS  
Total produced fluid 4087 BBLS  
Average Rate 64.4 BPM  
Average Pressure 6736 PSI  
Max Pressure 7506 PSI  
Stage Comments:"  
Wireline stage 5 pumped a total of 180 bbls with a maximum pumping pressure of 3484 psi set the plug at a depth of 13090 perforations from : 13075-13076.3, 13050-13051.3, 13032-13033.3, 12999-13000.3, 12966-12967.3  
"Location:  
University Land 09 #1803H Stage 5 of 40 Date:  
04/21/14 Start –17:07  
End – 19:19  
Consultant:  
Randy Hagen Service Company:  
UPP Treater:  
Brian Falls  
Initial Well-Head Pressure 1570 PSI  
Ball Seat Volume 244 BBLS  
Initial Breakdown 4822 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6305 PSI  
Pad Volume 327 BBLS

100 Mesh sand Stages 0.50—1.00 PPA  
Total 100 Mesh Pumped 48040 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 241580 BBLS



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# Wellwork Chronological Regulatory Report

Garnet RCS 40/70 sand stages 1.75 PPA  
Total Garnet RCS 40/70 40540 LBS

Flush 351 BBLS  
ISIP 2409 PSI  
Frac Gradient 0.74 Psi/ft  
5min drop 1975 PSI  
Total proppant 330160 LBS  
Total fluid to recover 7157 BBLS  
Total fresh water 2160 BBLS  
Total produced fluid 4997 BBLS  
Average Rate 68.2 BPM  
Average Pressure 6045 PSI  
Max Pressure 6938 PSI  
Stage Comments:"

Wireline stage 6 pumped a total of 175 bbls with a maximum pumping pressure of 3001 psi set the plug at a depth of 12946 perforations from : 12932-12933.3, 12899-12900.3, 12866-12867.3, 12833-12834.3, 12798-12799.3

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -20:21

End - 22:31

Consultant:

Randy Hagen / Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1608 PSI

Ball Seat Volume 223 BBLS

Initial Breakdown 4512 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 7,020 PSI

Pad Volume 402 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48,100 LBS

Ottawa 40/70 sand stages .75-2.25 ppg PPA  
Total Ottawa 40/70 240,460 BBLS

Garnet RCS 40/70 sand stages 2.25 ppg PPA  
Total Garnet RCS 40/70 40,940 LBS

Flush 347 BBLS  
ISIP 2,771 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2,061 PSI  
Total proppant 329,500 LBS  
Total fluid to recover 6,806 BBLS  
Total fresh water 3,648 BBLS  
Total produced fluid 3,158 BBLS  
Average Rate 68 BPM  
Average Pressure 6,206 PSI  
Max Pressure 6,747 PSI  
Stage Comments:"

Wireline Stage 7 pumped a total of 184 bbls with a maximum pumping pressure of 3,347 psi set the plug on depth at 12,780 ft perforations from:12630-12631.30, 12667-12668.15, 12700-12701.15, 12733-12734.15, 12766-12767

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -23:36

End - 01:51

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1,802 PSI

Ball Seat Volume 232 BBLS

Initial Breakdown 5,117 PSI

Acid Volume (7.5% HCL) 52 BBLS

Acid Break Down 6,750 PSI

Pad Volume 431 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,420 LBS

Ottawa 40/70 sand stages 1.00-2.00 ppg PPA  
Total Ottawa 40/70 238,040 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39,680 LBS

Flush 343 BBLS  
ISIP 2,501 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2,040 PSI  
Total proppant 326,140 LBS  
Total fluid to recover 7,037 BBLS



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# Wellwork Chronological Regulatory Report

Total fresh water 2,193 BBLS  
Total produced fluid 4,844 BBLS  
Average Rate 67.2 BPM  
Average Pressure 6,082 PSI  
Max Pressure 6,622 PSI  
Stage Comments:"  
Wireline stage 8 pumped a total of 161 bbls of water with a maximum pumping pressure of 3,036 psi set the plug at a depth of 12,614 ft perforations from:12468-12469.30, 12501-12502.15, 12534-12535.15, 12567-12568.15, 12600-12601  
"Location:  
University Land 09 #1803H Stage 8 of 40 Date:  
04/21/14 Start -02:55  
End - 04:55  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1783 PSI  
Ball Seat Volume 232 BBLS  
Initial Breakdown 5117 PSI  
Acid Volume (7.5% HCL) 50 BBLS  
Acid Break Down 6550 PSI  
Pad Volume 281 BBLS  
  
100 Mesh sand Stages 0.5-1.50 ppg PPA  
Total 100 Mesh Pumped 47060 LBS  
  
Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240100 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 ppg PPA  
Total Garnet RCS 40/70 39840 LBS  
  
Flush 339 BBLS  
ISIP 2927 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2079 PSI  
Total proppant 327000 LBS  
Total fluid to recover 5979 BBLS  
Total fresh water 3601 BBLS  
Total produced fluid 2378 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5611 PSI  
Max Pressure 6638 PSI  
Stage Comments:"  
Wireline stage 9 pumped a total of 167 bbls of water with a maximum pumping pressure of 3480 psi set the plug at a depth of 12448 ft perforations from : 12434-12435.3, 12404-12405.3, 12368-12369.3, 12335-12336.3, 12302-12303.3

## Daily Summary

Activity Date:	4/23/2014	Days on Compl:	17	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

### 24 Hour Summary:

Remarks  
"Location:  
University Land 09 #1803H Stage 9 of 40 Date:  
04/22/14 Start - 05:54  
End - 07:51  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1815 PSI  
Ball Seat Volume 225 BBLS  
Initial Breakdown 4409 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6430 PSI  
Pad Volume 156 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48120 LBS  
  
Ottawa 40/70 sand stages 1.00-2.50 PPA  
Total Ottawa 40/70 243700 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 PPA  
Total Garnet RCS 40/70 39520 LBS  
  
Flush 335 BBLS  
ISIP 2808 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2056 PSI  
Total proppant 331340 LBS  
Total fluid to recover 5814 BBLS  
Total fresh water 3649 BBLS  
Total produced fluid 2165 BBLS



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Average Rate 62.5 BPM  
Average Pressure 5644 PSI  
Max Pressure 6712 PSI  
Stage Comments:"  
Wireline stage 10 pumped a total of 166 bbls of water with a maximum pumping pressure of 3375 psi set the plug at a depth of 12282 ft perforations from : 12262-12263.3, 12235-12236.3, 12202-12203.3, 12169-12170.3, 12132-12133.3  
"Location:  
University Land 09 #1803H Stage 10 of 40 Date:  
04/22/14 Start – 08:46  
End – 10:57  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1819 PSI  
Ball Seat Volume 220 BBLS  
Initial Breakdown 5272 PSI  
Acid Volume (7.5% HCL) 41 BBLS  
Acid Break Down 6758 PSI  
Pad Volume 158 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49700 LBS  
  
Ottawa 40/70 sand stages .25-2.25 PPA  
Total Ottawa 40/70 239360 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 332 BBLS  
ISIP 2909 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2089 PSI  
Total proppant 328980 LBS  
Total fluid to recover 6802 BBLS  
Total fresh water 3715 BBLS  
Total produced fluid 3087 BBLS  
Average Rate 64.3 BPM  
Average Pressure 6156 PSI  
Max Pressure 7123 PSI  
Stage Comments:"  
Wireline stage 11 pumped a total of 151 bbls of water with a maximum pumping pressure of 3450 psi set the plug at a depth of 12116 ft perforations from : 12102-12103.3, 12069-12070.3, 12036-12037.3, 12000-12001.3, 11972-11973.3  
"Location:  
University Land 09 #1803H Stage 11 of 40 Date:  
04/22/14 Start – 12:06  
End – 14:03  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1734 PSI  
Ball Seat Volume 215 BBLS  
Initial Breakdown 2345 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6560 PSI  
Pad Volume 131 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49160 LBS  
  
Ottawa 40/70 sand stages .50-3.00 PPA  
Total Ottawa 40/70 237880 BBLS  
  
Garnet RCS 40/70 sand stages 3.25 PPA  
Total Garnet RCS 40/70 38920 LBS  
  
Flush 332 BBLS  
ISIP 3571 PSI  
Frac Gradient .89 Psi/ft  
5min drop 2700 PSI  
Total proppant 352960 LBS  
Total fluid to recover 5992 BBLS  
Total fresh water 1953 BBLS  
Total produced fluid 4039 BBLS  
Average Rate 65.5 BPM  
Average Pressure 5833 PSI  
Max Pressure 6326 PSI  
Stage Comments:"  
Wireline stage 12 pumped a total of 137 bbls of water with a maximum pumping pressure of 4075 psi set the plug at a depth of 11946 ft perforations from : 11932-11933.3, 11903-11904.3, 11870-11871.3, 11840-11841.3, 11804-11805.3  
Greasing the wellhead  
"Location:  
University Land 09 #1803H Stage 12 of 40 Date:  
04/22/14 Start – 15:32



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# Wellwork Chronological Regulatory Report

End – 17:08  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1867 PSI  
Ball Seat Volume 92 BBLS  
Initial Breakdown 4470 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 537 BBLS

100 Mesh sand Stages .50 – 2.00 ppg PPA  
Total 100 Mesh Pumped 49,060 LBS

Ottawa 40/70 sand stages 2.00-2.25 ppg PPA  
Total Ottawa 40/70 238,900 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40,240 LBS

Flush 328 BBLS  
ISIP 3186 PSI  
Frac Gradient .84 Psi/ft  
5min drop 2138 PSI  
Total proppant 328,200 LBS  
Total fluid to recover 5036 BBLS  
Total fresh water 855 BBLS  
Total produced fluid 4181 BBLS  
Average Rate 58.7 BPM  
Average Pressure 5474 PSI  
Max Pressure 6940 PSI  
Stage Comments:"  
Wireline stage 13 pumped a total of 139 bbls of water with a maximum pumping pressure of 3905 psi set the plug at a depth of 11774 ft perforations from : 11638-11639.30, 11671-11672.15, 11707-11708.15, 11737-11738.15, 11760-11761  
"Location:  
University Land 09 #1803H Stage 13 of 40 Date:  
04/22/14 Start – 18:31  
End – 20:49  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1726 PSI  
Ball Seat Volume 196 BBLS  
Initial Breakdown 4955 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 7050 PSI  
Pad Volume 524 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48200 LBS

Ottawa 40/70 sand stages .50-2.25 ppg PPA  
Total Ottawa 40/70 240760 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 41000 LBS

Flush 322 BBLS  
ISIP 2939 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2089 PSI  
Total proppant 329960 LBS  
Total fluid to recover 6922 BBLS  
Total fresh water 2605 BBLS  
Total produced fluid 4317 BBLS  
Average Rate 56 BPM  
Average Pressure 5689 PSI  
Max Pressure 6491 PSI  
Stage Comments:"  
Wireline stage 14 pumped a total of 133 bbls of water with a maximum pumping pressure of 3629 psi set the plug at a depth of 11618 ft perforations from :11472-11473.30, 11505-11506.15, 11538-11539.15, 11571-11572.15, 11604-11605  
"Location:  
University Land 09 #1803H Stage 14 of 40 Date:  
04/22/14 Start – 21:49  
End – 23:50  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1781 PSI  
Ball Seat Volume 199 BBLS  
Initial Breakdown 4810 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6900 PSI



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Pad Volume 540 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48100 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240140 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40060 LBS

Flush 319 BBLS  
ISIP 3271 PSI  
Frac Gradient .85 Psi/ft  
5min drop 1973 PSI  
Total proppant 328300 LBS  
Total fluid to recover 5704 BBLS  
Total fresh water 1922 BBLS  
Total produced fluid 3782 BBLS  
Average Rate 52.6 BPM  
Average Pressure 5248 PSI  
Max Pressure 6185 PSI  
Stage Comments:"  
Wireline stage 15 pumped a total of 138 bbls of water with a maximum pumping pressure of 3577 psi set the plug at a depth of 11452 ft perforations from :11306-11307.30, 11339-11340.15, 11372-11373.15, 11404-11405.15, 11438-11439  
"Location:  
University Land 09 #1803H Stage 15 of 40 Date:  
04/22/14 Start – 12:41  
End – 03:06  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1713 PSI  
Ball Seat Volume 200 BBLS  
Initial Breakdown 4631 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 497 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 239960 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39760 LBS

Flush 315 BBLS  
ISIP 3492 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2228 PSI  
Total proppant 327940 LBS  
Total fluid to recover 7507 BBLS  
Total fresh water 5660 BBLS  
Total produced fluid 1847 BBLS  
Average Rate 60.9 BPM  
Average Pressure 6013 PSI  
Max Pressure 6862 PSI  
Stage Comments:"  
Wireline stage 16 pumped a total of 129 bbls of water with a maximum pumping pressure of 4122 psi set the plug at a depth of 11280 ft perforations from: 11140-11141.30, 11173-11174.15, 11206-11207.15, 11239-11240.15, 11266-11267  
Start stage 16

## Daily Summary

Activity Date:	4/24/2014	Days on Compl:	18	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks  
"Location:  
University Land 09 #1803H Stage 16 of 40 Date:  
04/23/14 Start – 04:04  
End – 05:50  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1977 PSI  
Ball Seat Volume 201 BBLS  
Initial Breakdown 4513 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6420 PSI  
Pad Volume 106 BBLS



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100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48000 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 238400 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40780 LBS

Flush 308 BBLs  
ISIP 2889 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2082 PSI  
Total proppant 327180 LBS  
Total fluid to recover 5338 BBLs  
Total fresh water 3689 BBLs  
Total produced fluid 1649 BBLs  
Average Rate 62.1 BPM  
Average Pressure 5487 PSI  
Max Pressure 6494 PSI  
Stage Comments:"

Wireline stage 17 pumped a total of 113 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 11116 ft perforations from : 11100-11101.3, 11073-11074.3, 11040-11041.3, 11007-11008.3, 10974-10975.3

"Location:

University Land 09 #1803H Stage 17 of 40 Date:

04/23/14 Start – 06:49

End – 08:30

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1794 PSI

Ball Seat Volume 193 BBLs

Initial Breakdown 4645 PSI

Acid Volume (7.5% HCL) 40 BBLs

Acid Break Down 6890 PSI

Pad Volume 158 BBLs

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47440 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239500 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40140 LBS

Flush 305 BBLs  
ISIP 4500 PSI  
Frac Gradient 1.01 Psi/ft  
5min drop 2312 PSI  
Total proppant 327080 LBS  
Total fluid to recover 4958 BBLs  
Total fresh water 3492 BBLs  
Total produced fluid 1466 BBLs  
Average Rate 66.5 BPM  
Average Pressure 5809 PSI  
Max Pressure 7615 PSI  
Stage Comments:"

Wireline stage 18 pumped a total of 114 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10954 ft perforations from : 10940-10941.3, 10907-10908.3, 10874-10875.3, 10841-10842.3, 10808-10809.3

"Location:

University Land 09 #1803H Stage 18 of 40 Date:

04/23/14 Start – 09:21

End – 11:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 2027 PSI

Ball Seat Volume 196 BBLs

Initial Breakdown 4651 PSI

Acid Volume (7.5% HCL) 40 BBLs

Acid Break Down 6875 PSI

Pad Volume 127 BBLs

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47280 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239560 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39560 LBS





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Flush 301 BBLS  
ISIP 3240 PSI  
Frac Gradient .85 Psi/ft  
5min drop 2095 PSI  
Total proppant 326400 LBS  
Total fluid to recover 5104 BBLS  
Total fresh water 3227 BBLS  
Total produced fluid 1777 BBLS  
Average Rate 64.6 BPM  
Average Pressure 5579 PSI  
Max Pressure 6854 PSI  
Stage Comments:"  
Wireline stage 19 pumped a total of 118 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10788 ft perforations from : 10771-10775.3, 10741-10742.3, 10708-10709.3, 10675-10676.3, 10642-10643.3  
"Location:  
University Land 09 #1803H Stage 19 of 40 Date:  
04/23/14 Start – 11:59  
End – 13:39  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1774 PSI  
Ball Seat Volume 174 BBLS  
Initial Breakdown 4861 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6749 PSI  
Pad Volume 103 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48040 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240460 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39200 LBS  
  
Flush 297 BBLS  
ISIP 3529 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2437 PSI  
Total proppant 327700 LBS  
Total fluid to recover 5067 BBLS  
Total fresh water 3392 BBLS  
Total produced fluid 1675 BBLS  
Average Rate 65.0 BPM  
Average Pressure 5305 PSI  
Max Pressure 6657 PSI  
Stage Comments:"  
Wireline stage 20 pumped a total of 123 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10618 ft perforations from : 10600-10601.3, 10575-10576.3, 10542-10543.3, 10509-10510.3, 10476-10477.3  
"Location:  
University Land 09 #1803H Stage 20 of 40 Date:  
04/23/14 Start – 14:34  
End – 16:16  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1898 PSI  
Ball Seat Volume 180 BBLS  
Initial Breakdown 4510 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6783 PSI  
Pad Volume 213 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49960 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240000 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 41600 LBS  
  
Flush 293 BBLS  
ISIP 2915 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2076 PSI  
Total proppant 331580 LBS  
Total fluid to recover 5224 BBLS  
Total fresh water 3461 BBLS  
Total produced fluid 1763 BBLS  
Average Rate 63.7 BPM  
Average Pressure 5095 PSI



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Max Pressure 6484 PSI  
Stage Comments:"  
Wireline stage 21 pumped a total of 111 bbls of water with a maximum pumping pressure of 4114 psi set the plug at a depth of 10456 ft perforations from :10310-10311.30, 10343-10344.15, 10376-10377.15, 10409-10410.15, 10442-10443  
"Location:  
University Land 09 #1803H Stage 21 of 40 Date:  
04/23/14 Start – 17:14  
End – 18:51  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1858 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 4300 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 6500 PSI  
Pad Volume 373 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49080 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 236863 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 289 BBLS  
ISIP 2546 PSI  
Frac Gradient .78 Psi/ft  
5min drop 2050 PSI  
Total proppant 325863 LBS  
Total fluid to recover 5033 BBLS  
Total fresh water 903 BBLS  
Total produced fluid 4103 BBLS  
Average Rate 64 BPM  
Average Pressure 5165 PSI  
Max Pressure 6100 PSI  
Stage Comments:"  
Wireline stage 22 pumped a total of 87 bbls of water with a maximum pumping pressure of 3016 psi set the plug at a depth of 10290 ft perforations from :10144-10145.30, 10177-10178.15, 10210-10211.15, 10246-10247.15, 10276-10277  
"Location:  
University Land 09 #1803H Stage 22 of 40 Date:  
04/23/14 Start – 19:37  
End – 21:22  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1779 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 3906 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 311 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48020 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240440 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 50100 LBS  
  
Flush 285 BBLS  
ISIP 2526 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2050 PSI  
Total proppant 338560 LBS  
Total fluid to recover 5369 BBLS  
Total fresh water 1554 BBLS  
Total produced fluid 3815 BBLS  
Average Rate 68.5 BPM  
Average Pressure 5197 PSI  
Max Pressure 6127 PSI  
Stage Comments:"  
Wireline stage 23 pumped a total of 83 bbls of water with a maximum pumping pressure of 3368 psi set the plug at a depth of 10124 ft perforations from :9978-9979.30, 10011-10012.15, 10044-10045.15, 10077-10078.15, 10110-10111  
"Location:  
University Land 09 #1803H Stage 23 of 40 Date:  
04/23/14 Start – 22:07  
End – 23:51  
Consultant:  
Justin Stringer Service Company:



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# Wellwork Chronological Regulatory Report

UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1679 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 5051 PSI  
Acid Volume (7.5% HCL) 53 BBLS  
Acid Break Down 6700 PSI  
Pad Volume 306 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48720 LBS

Ottawa 40/70 sand stages 1.00-2.50 ppg PPA  
Total Ottawa 40/70 238820 BBLS

Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 40080 LBS

Flush 281 BBLS  
ISIP 2527 PSI  
Frac Gradient .75 Psi/ft  
5min drop 1820 PSI  
Total proppant 327620 LBS  
Total fluid to recover 5161 BBLS  
Total fresh water 1222 BBLS  
Total produced fluid 3939 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5078 PSI  
Max Pressure 5960 PSI  
Stage Comments:"  
Wireline stage 24 pumped a total of 77 bbls of water with a maximum pumping pressure of 3178 psi set the plug at a depth of 9958 ft perforations from: 9812-9813.30, 9845-9846.15, 9880-9881.15, 9911-9912.15, 9944-9945  
"Location:  
University Land 09 #1803H Stage 24 of 40 Date:  
04/23/14 Start – 24:39  
End – 02:17  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1642 PSI  
Ball Seat Volume 167 BBLS  
Initial Breakdown 6069 PSI  
Acid Volume (7.5% HCL) 44 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 348 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 240500 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 40280 LBS

Flush 278 BBLS  
ISIP 2784 PSI  
Frac Gradient .79 Psi/ft  
5min drop 1890 PSI  
Total proppant 329580 LBS  
Total fluid to recover 5066 BBLS  
Total fresh water 1277 BBLS  
Total produced fluid 3789 BBLS  
Average Rate 70 BPM  
Average Pressure 5159 PSI  
Max Pressure 6988 PSI  
Stage Comments:"  
Wireline stage 25 pumped a total of 71 bbls of water with a maximum pumping pressure of 3314 psi set the plug at a depth of 9792 ft perforations from:9646-9647.30, 9679-9680.15, 9712-9713.15, 9740-9741.15, 9778-9779  
greasing well head  
Start stage 26

## Daily Summary

Activity Date:	4/25/2014	Days on Compl:	19	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Remarks  
"Location:  
University Land 09 #1803H Stage 25 of 40 Date:  
04/24/14 Start – 03:43  
End – 07:47  
Consultant:  
Justin Stringer Service Company:



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# Wellwork Chronological Regulatory Report

UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1539 PSI  
Ball Seat Volume 56 BBLS  
Initial Breakdown 4820 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 7132 PSI  
Pad Volume 22 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240180 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39780 LBS

Flush 1861 BBLS  
ISIP 3727 PSI  
Frac Gradient .91 Psi/ft  
5min drop 2560 PSI  
Total proppant 328180 LBS  
Total fluid to recover 6647 BBLS  
Total fresh water 2774 BBLS  
Total produced fluid 3873 BBLS  
Average Rate 64.9 BPM  
Average Pressure 6037 PSI  
Max Pressure 7010 PSI  
Stage Comments:"  
Wireline stage 26 pumped a total of 64 bbls of water with a maximum pumping pressure of 4780 psi set the plug at a depth of 9626 ft perforations from : 9610-9611.3, 9579-9580.3, 9546-9547.3, 9513-9514.3, 9478-9479.3  
Universal workingon pump trucks  
"Location:  
University Land 09 #1803H Stage 26 of 40 Date:  
04/24/14 Start – 09:42  
End – 11:13  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1633 PSI  
Ball Seat Volume 146 BBLS  
Initial Breakdown 1531 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 6360 PSI  
Pad Volume 103 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 39960 LBS

Ottawa 40/70 sand stages 1.00-3.50 PPA  
Total Ottawa 40/70 242560 BBLS

Garnet RCS 40/70 sand stages 4.00 PPA  
Total Garnet RCS 40/70 323120 LBS

Flush 272 BBLS  
ISIP 3950 PSI  
Frac Gradient .81 Psi/ft  
5min drop 1950 PSI  
Total proppant 323120 LBS  
Total fluid to recover 4653 BBLS  
Total fresh water 1189 BBLS  
Total produced fluid 3464 BBLS  
Average Rate 67.0 BPM  
Average Pressure 5409 PSI  
Max Pressure 6296 PSI  
Stage Comments:"  
Wireline stage 27 pumped a total of 63 bbls of water with a maximum pumping pressure of 4010 psi set the plug at a depth of 9460 ft perforations from : 9446-9447.3, 9408-9409.3, 9380-9381.3, 9343-9434.3, 9314-9315.3  
"Location:  
University Land 09 #1803H Stage 27 of 40 Date:  
04/24/14 Start – 12:00  
End – 13:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1761 PSI  
Ball Seat Volume 133 BBLS  
Initial Breakdown 4585 PSI  
Acid Volume (7.5% HCL) 43 BBLS  
Acid Break Down 6701 PSI  
Pad Volume 84 BBLS



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# Wellwork Chronological Regulatory Report

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48600 LBS

Ottawa 40/70 sand stages 1.50-3.50 PPA  
Total Ottawa 40/70 240620 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 268 BBLS  
ISIP 2521 PSI  
Frac Gradient .75 Psi/ft  
5min drop 1950 PSI  
Total proppant 329440 LBS  
Total fluid to recover 4788 BBLS  
Total fresh water 563 BBLS  
Total produced fluid 4225 BBLS  
Average Rate 62.8 BPM  
Average Pressure 5493 PSI  
Max Pressure 6658 PSI  
Stage Comments:"

Wireline stage 28 pumped a total of 61 bbls of water with a maximum pumping pressure of 4010 psi set the plug at a depth of 9288 ft perforations from : 9276-9277.3, 9247-9248.3, 9214-9215.3, 9181-9182.3, 9148-9149.3

"Location:

University Land 09 #1803H Stage 28 of 40 Date:

04/24/14 Start – 14:20

End – 16:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

J. Rodriguez

Initial Well-Head Pressure 1641 PSI

Ball Seat Volume 155 BBLS

Initial Breakdown 4827 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 5950 PSI

Pad Volume 166 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,220 LBS

Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 239,740 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 41,580 LBS

Flush 263 BBLS  
ISIP 3,286 PSI  
Frac Gradient .85 Psi/ft  
5min drop 2,100 PSI  
Total proppant 329,540 LBS  
Total fluid to recover 5,411 BBLS  
Total fresh water 1544 BBLS  
Total produced fluid 2467 BBLS  
Average Rate 63.8 BPM  
Average Pressure 5,732 PSI  
Max Pressure 6,421 PSI  
Stage Comments:"

Wireline stage 29 pumped a total of 57 bbls of water with a maximum pumping pressure of 3770 psi set the plug at a depth of 9128 ft perforations from: 8982-8983.30, 9015-9016.15, 9048-9049.15, 9048-9049.15, 9080-9081.15, 9114-9115

"Location:

University Land 09 #1803H Stage 29 of 40 Date:

04/24/14 Start – 16:46

End – 18:14

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1747 PSI

Ball Seat Volume 146 BBLS

Initial Breakdown 4611 PSI

Acid Volume (7.5% HCL) 50 BBLS

Acid Break Down 6600 PSI

Pad Volume 340 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49,800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 237,620 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 40,020 LBS

Flush 259 BBLS



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# Wellwork Chronological Regulatory Report

ISIP 2,678 PSI  
Frac Gradient .77 Psi/ft  
5min drop 1,930 PSI  
Total proppant 327,440 LBS  
Total fluid to recover 4355 BBLS  
Total fresh water 1,097 BBLS  
Total produced fluid 3,258 BBLS  
Average Rate 69.2 BPM  
Average Pressure 4,923 PSI  
Max Pressure 5,784 PSI  
Stage Comments:"  
Wireline stage 30 pumped a total of 47 bbls of water with a maximum pumping pressure of 3122 psi set the plug at a depth of 8962 ft perforations from: 8816-8817.30, 8849-8850.15, 8882-8883.15, 8915-8916.15, 8948-8949  
"Location:  
University Land 09 #1803H Stage 30 of 40 Date:  
04/24/14 Start – 18:52  
End – 20:34  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1,610 PSI  
Ball Seat Volume 145 BBLS  
Initial Breakdown 4,662 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 6,800 PSI  
Pad Volume 190 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48,040 LBS  
  
Ottawa 40/70 sand stages 1.50-2.50 ppg PPA  
Total Ottawa 40/70 143,860 BBLS  
  
Garnet RCS 40/70 sand stages .50-1.00 ppg PPA  
Total Garnet RCS 40/70 31,360 LBS  
  
Flush 258 BBLS  
ISIP 3,040 PSI  
Frac Gradient .82 Psi/ft  
5min drop 1,718 PSI  
Total proppant 223,260 LBS  
Total fluid to recover 5,171 BBLS  
Total fresh water 1,938 BBLS  
Total produced fluid 3,233 BBLS  
Average Rate 64.5 BPM  
Average Pressure 5,559 PSI  
Max Pressure 6,816 PSI  
Stage Comments:"  
Wireline stage 31 pumped a total of 42 bbls of water with a maximum pumping pressure of 3489 psi set the plug at a depth of 8796 ft perforations from: 8650-8651.30, 8683-8684.15, 8718-8719.15, 8749-8750.15, 8782-8783  
"Location:  
University Land 09 #1803H Stage 31 of 40 Date:  
04/24/14 Start – 21:11  
End – 22:46  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 3,387 PSI  
Ball Seat Volume 136 BBLS  
Initial Breakdown 4,573 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6,450 PSI  
Pad Volume 230 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49,020 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 241,580 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 40,600 LBS  
  
Flush 252 BBLS  
ISIP 3,387 PSI  
Frac Gradient .86 Psi/ft  
5min drop 2,102 PSI  
Total proppant 331,200 LBS  
Total fluid to recover 4,794 BBLS  
Total fresh water 2,868 BBLS  
Total produced fluid 1,926 BBLS  
Average Rate 61.1 BPM  
Average Pressure 4,989 PSI  
Max Pressure 6,484 PSI



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# Wellwork Chronological Regulatory Report

## Stage Comments:"

Wireline stage 32 pumped a total of 39 bbls of water with a maximum pumping pressure of 3176 psi set the plug at a depth of 8630 ft perforations from: 8484-8485.30, 8515-8516.15, 8550-8551.15, 8586-8587.15, 8616-8617

"Location:

University Land 09 #1803H Stage 32 of 40 Date:

04/24/14 Start – 23:24

End – 01:10

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1,808 PSI

Ball Seat Volume 135 BBLS

Initial Breakdown 4,586 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 5,900 PSI

Pad Volume 143 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 47,760 LBS

Ottawa 40/70 sand stages .50-3.00 ppg PPA

Total Ottawa 40/70 239,440 BBLS

Garnet RCS 40/70 sand stages 50,520 PPA

Total Garnet RCS 40/70 3.50 ppg LBS

Flush 247 BBLS

ISIP 3,410 PSI

Frac Gradient .87 Psi/ft

5min drop 2,020 PSI

Total proppant 337,720 LBS

Total fluid to recover 5,472 BBLS

Total fresh water 3,474 BBLS

Total produced fluid 1,998 BBLS

Average Rate 68 BPM

Average Pressure 4,713 PSI

Max Pressure 5,320 PSI

Stage Comments:"

Wireline stage 33 pumped a total of 34 bbls of water with a maximum pumping pressure of 3620 psi set the plug at a depth of 8464 ft perforations from: 8318-8319.30, 8351-8352.15, 8384-8385.15, 8417-8418.15, 8446-8447

"Location:

University Land 09 #1803H Stage 33 of 40 Date:

04/24/14 Start – 01:45

End – 03:21

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1,829 PSI

Ball Seat Volume 131 BBLS

Initial Breakdown 5,269 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 6,879 PSI

Pad Volume 79 BBLS

100 Mesh sand Stages .50-1.50 PPA

Total 100 Mesh Pumped 48020 LBS

Ottawa 40/70 sand stages 1.50-3.00 PPA

Total Ottawa 40/70 239720 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA

Total Garnet RCS 40/70 39640 LBS

Flush 243 BBLS

ISIP 4072 PSI

Frac Gradient .95 Psi/ft

5min drop 1960 PSI

Total proppant 327640 LBS

Total fluid to recover 4851 BBLS

Total fresh water 3042 BBLS

Total produced fluid 1809 BBLS

Average Rate 60.2 BPM

Average Pressure 4824 PSI

Max Pressure 5635 PSI

Stage Comments:"

Wireline stage 34 pumped a total of 25 bbls of water with a maximum pumping pressure of 3760 psi set the plug at a depth of 8298 ft perforations from : 8284-8285.3, 8251-8252.3, 8218-8219.3, 8185-8186.3, 8152-8153.3

"Location:

University Land 09 #1803H Stage 34 of 40 Date:

04/25/14 Start – 03:59

End – 05:30

Consultant:

Storm McDonald Service Company:

UPP Treater:



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# Wellwork Chronological Regulatory Report

J. Rodriguez  
Initial Well-Head Pressure 1900 PSI  
Ball Seat Volume 128 BBLS  
Initial Breakdown 4312 PSI  
Acid Volume (7.5% HCL) 54 BBLS  
Acid Break Down 6458 PSI  
Pad Volume 48 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 50280 LBS  
  
Ottawa 40/70 sand stages 1.50-3.50 PPA  
Total Ottawa 40/70 241220 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 42220 LBS  
  
Flush 239 BBLS  
ISIP 3355 PSI  
Frac Gradient .86 Psi/ft  
5min drop 2150 PSI  
Total proppant 333720 LBS  
Total fluid to recover 4657 BBLS  
Total fresh water 3038 BBLS  
Total produced fluid 1619 BBLS  
Average Rate 62.3 BPM  
Average Pressure 4970 PSI  
Max Pressure 6339 PSI  
Stage Comments:"  
Set kill plug at 7250

## Daily Summary

Activity Date:	4/26/2014	Days on Compl:	20	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Water to Recover Total (bbbls)  
195,521  
  
100 Mesh Total lbs  
1,686,300  
  
47/70 Total lbs  
7,772,191  
  
RCS Total lbs  
1,368,040  
  
Total lbs of proppant  
10,826,531

## Daily Summary

Activity Date:	5/1/2014	Days on Compl:	25	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Rig up Drillout services  
Released 6 light plants from RPW 4 remaining 04-30-14.  
Released 6 toilets and 1 trash trailer from energy waste 2 toilets and 1 trash trailer remaining 04-30-14  
Released 1 500 bbl opent top with gas buster from Wolverine 04-30-14  
  
Rig up completions rig, Mixing plant, well heads , flow lines, tanks, Fesco drill out equipment, BOP and function test, pressure test surface equipment to 2500#, pressure wash and clen threads on PH-6 drill pipe.  
Waiting on TTS tool Hand.  
Make up TTS BHA, Roller cone bit, Rotary sub, Titan mud motor, Back pressure valve, AV sub, Rotary sub, 2 flapper valves, test motor.  
TIH with TTS BHA and 2 7/8 PH-6 drill pipe.

## Daily Summary

Activity Date:	5/2/2014	Days on Compl:	26	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'





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# Wellwork Chronological Regulatory Report

## 24 Hour Summary:

Talked about ranch rules and over head safety.  
TIH to kill plug w/ 7/8 PH-6 8.7# work string and TTS BHA.  
Drillout Kill Plug w/ jt 231 (7159'/kb) in 5 minutes, FCP - 600#, circulating pressure - 5500# @ 6.5 bpm in & 6.5 bpm out, pump 10 bbl 100 vis sweep, circulate sweep to surface in 20 minutes. Continue TIH to Plug #1.  
Tag Plug #1 w/ jt 264 (8298'/kb). Drill plug in 9 mins @ 6.5 BPM in & 6.5 BPM out FCP 700#, Circulating Pressure 5214#, very light sand, TIH to Plug #2.  
Tag Plug #2 w/ jt 270 (8464'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 750#, Circulating Pressure 5500#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #3.  
Tag Plug #3 w/ jt 275 (8630'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 580#, Circulating Pressure 5740#, very light sand, TIH to Plug #4.  
Tag Plug #4 w/ jt 280 (8796'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 750#, Circulating Pressure 5830#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #5.  
Laydown machine broke down start picking pipe up by hand, Tag Plug #5 w/ jt 286 (8962'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 650#, Circulating Pressure 5800#, very light sand, TIH to Plug #6.  
Tag Plug #6 w/ jt 291 (9128'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 600#, Circulating Pressure 6200#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #7.  
Tag Plug #7 w/ jt 296 (9288'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6300#, very light sand, TIH to Plug #8.  
Tag Plug #8 w/ jt 302 (9626'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 5600#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #9.  
Tag Plug #9 w/ jt 307 (9792'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6400#, very light sand, TIH to Plug #10.  
Tag Plug #10 w/ jt 312 (9958'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 480#, Circulating Pressure 6500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #11.  
Circulating 10bbl 100 vis sweep bottoms up.  
Circulating 10bbl 100 vis sweep bottoms up.  
Tag Plug #11 w/ jt 317 (9958'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 560#, Circulating Pressure 5500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #12.  
Tag Plug #12 w/ jt 323 (10124'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 520#, Circulating Pressure 5400#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #13.  
Tag Plug #13 w/ jt 328 (10290'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 5500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #14.  
Pulled threads on joint in slips @ jt 331, tried to screw back in could not screw back in.  
Waiting on 3 1/8 and 2 1/4 sphere over shot, circulating with TIW valve @ 3 bpm in & 3 bpm out.  
Run over shot on pipe.

## Daily Summary

Activity Date:	5/3/2014	Days on Compl:	27	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'



# Wellwork Chronological Regulatory Report

## 24 Hour Summary:

Talked about well control and pinch points.  
 Tried over shot w/ 3 1/4" ID grappels, could not get good enough bite over toll joint, tried spear w/ 2.2" OD grappels to small to grab, waiting on new grappel 2.3" OD, and short grap overshot.  
 MU short grab over shot w/ 3 1/8" grappels could not get over tool joint pulled off over shot, MU spear w/ 2.26" OD grappels stabbed in joint picked up and layed down fish, screwed back into work string with power swivel start circulating 10bbl 100 vis sweep back to surface before CIH.  
 Tag Plug #14 w/ jt 333 (10618'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 450#, Circulating Pressure 6200#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #15.  
 Tag Plug #15 w/ jt 338 (10788'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 550#, Circulating Pressure 6400#, very light sand, TIH to Plug #16.  
 Tag Plug #16 w/ jt 344 (10954'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 350#, Circulating Pressure 6200#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #17.  
 Tag Plug #17 w/ jt 348 (11116'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 400#, Circulating Pressure 6450#, pump 10bbl 100 vis sweep, very light sand, Circulat for 20 min, TIH to Plug #18.  
 Tag Plug #18 w/ jt 355 (11280'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 400#, Circulating Pressure 6450#, very light sand, TIH to Plug #19.  
 Tag Plug #19 w/ jt 360 (11452'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 400#, Circulating Pressure 6500#, very light sand, TIH to Plug #20.  
 Tag Plug #20 w/ jt 365 (11618'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 400#, Circulating Pressure 6700#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #21.  
 Tag Plug #21 w/ jt 371 (11774'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 400#, Circulating Pressure 6600#, very light sand, TIH to Plug #22.  
 Tag Plug #22 w/ jt 376 (11946'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6600#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #23.  
 Tag Plug #23 w/ jt 381 (12116'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 350#, Circulating Pressure 6200#, very light sand, TIH to Plug #24.  
 Tag Plug #24 w/ jt 387 (12282'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 510#, Circulating Pressure 6400#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #25.  
 Tag Plug #25 w/ jt 392 (12448'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6100#, very light sand, TIH to Plug #26.  
 Tag Plug #26 w/ jt 397 (12614'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 510#, Circulating Pressure 6000#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #27.  
 Tag Plug #27 w/ jt 403 (12780'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 5900#, very light sand, TIH to Plug #28.  
 Tag Plug #28 w/ jt 408 (12946'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6300#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #29.  
 Tag Plug #29 w/ jt 413 (13090'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6000#, very light sand, TIH to Plug #30.  
 Tag Plug #30 w/ jt 417 (13265'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6100#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #31.  
 Tag Plug #31 w/ jt 424 (13265'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6400#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #32.  
 Tag Plug #32 w/ jt 429 (13442'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 520#, Circulating Pressure 6700#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #33.  
 Tag Plug #33 w/ jt 435 (13740'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 540#, Circulating Pressure 6100#, pumped 20/10/20 100 vis sweep, very light sand, TIH 5 jts to bottom @ 13,740.  
 Circulate 20/10/20 high vis sweep to surface.  
 Shut in well SICP @ 800, TOH with Lynx power swivle 5 jts, pulled 70 klbs off bottom.  
 Rig down Lynx power swivle, prepare rig floor for TOH.  
 TOH with TTS BHA and 2 7/8 PH-6 drill pipe, TOH 185 jts to bottom of curve pump 20 bbl high vis sweep.  
 Circulate 20 bbl sweep to surface.  
 TOH with TTS BHA and 2 7/8 PH-6 drill pipe 365 jts, install TIW valve land drill string and TIW valve on pipe rams.  
 Rig up 10' 5k spool, prepare rig for snubbing unit.  
 MIRU Great White snubbing unit.

## Daily Summary

Activity Date:	5/4/2014	Days on Compl:	28	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

## 24 Hour Summary:

Talked about well control and good communications.  
 MIRU Great White snubbing unit.  
 Wh 800psi, equalize pressure over BOP, begin snubbing out 2 7/8 PH-6 8.7# work string and TTS BHA.  
 Snubbed OOH w/70 joints of 2 7/8 PH-6 8.7# work string and, TTS BHA, closed WH bled pressure off to open top tank, well is secure, RDMO Great White snubbing unit.  
 RDMO to 09-1825, CC Forbes work over rig, Fesco flowback equipment, Lynx reverse pump iron and, Nabors laydown machine, ND BOP's and annular bag, NU blind flange,  
 Well shut in 800# SICP.



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# Wellwork Chronological Regulatory Report

## Well Name: UNIVERSITY 09 #1803H

Field:	Lin (Wolfcamp)	S/T/R:	/ /	County, State:	
Location Desc:					
Operator:	Enduring Resources, LLC	Project Type:	Completion	District:	Southern
Project AFE:	DV02028	AFE's Associated:	/ / /	API:	
Supervisor:		Phone:			
Production Cur/Exp   Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

### Daily Summary

Activity Date:	4/15/2014	Days on Compl:	9	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:					

### Daily Summary

Activity Date:	4/21/2014	Days on Compl:	15	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

#### 24 Hour Summary:

UL-09-1803H  
Moved in frac and wireline. RU to well.  
Pressure Test  
Safety meeting discussed max pressure and frac run down, wireline operation, water transfer operations  
Start Frac stage 1

### Daily Summary

Activity Date:	4/22/2014	Days on Compl:	16	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

#### 24 Hour Summary:

Remarks  
"Location:  
University Land 09 #1803H Stage 1 of 40 Date:  
04/21/14 Start - 04:05  
End - 05:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1176 PSI  
Ball Seat Volume - BBLS  
Initial Breakdown 4350 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 7210 PSI  
Pad Volume 337 BBLS  
  
100 Mesh sand Stages .5-1.5 PPA  
Total 100 Mesh Pumped 97000 LBS  
  
Ottawa 40/70 sand stages 1-2.5 PPA  
Total Ottawa 40/70 142920 BBLS  
  
Garnet RCS 40/70 sand stages 3 PPA  
Total Garnet RCS 40/70 20000 LBS  
  
Flush 366 BBLS  
ISIP 2452 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2315 PSI  
Total proppant 259920 LBS  
Total fluid to recover 6976 BBLS  
Total fresh water 4839 BBLS  
Total produced fluid 2137 BBLS  
Average Rate 68 BPM  
Average Pressure 6139 PSI  
Max Pressure 6955 PSI  
Stage Comments:"  
Wireline stage 2 pumped a total of 210 bbls with a maximum pumping pressure of 3275 psi set the plug at a depth of 13605 perforations from : 13590 -13591.3, 13563-13564.3, 13530-13531.3, 13497-13498.3, 13464-13465.3  
"Location:



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# Wellwork Chronological Regulatory Report

University Land 09 #1803H Stage 2 of 40 Date:

04/21/14 Start – 07:10

End – 09:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1526 PSI

Ball Seat Volume 253 BBLS

Initial Breakdown 4736 PSI

Acid Volume (7.5% HCL) 40 BBLS

Acid Break Down 6870 PSI

Pad Volume 234 BBLS

100 Mesh sand Stages .5-1.5 PPA

Total 100 Mesh Pumped 46660 LBS

Ottawa 40/70 sand stages 1-2.5 PPA

Total Ottawa 40/70 255388 BBLS

Garnet RCS 40/70 sand stages 3 PPA

Total Garnet RCS 40/70 40220 LBS

Flush 362 BBLS

ISIP 2623 PSI

Frac Gradient .77 Psi/ft

5min drop 1965 PSI

Total proppant 342268 LBS

Total fluid to recover 5530 BBLS

Total fresh water 2524 BBLS

Total produced fluid 3006 BBLS

Average Rate 67.9 BPM

Average Pressure 6310 PSI

Max Pressure 6783 PSI

Stage Comments:"

Wireline stage 3 pumped a total of 179 bbls with a maximum pumping pressure of 3070 psi set the plug at a depth of 13442 perforations from : 13430

-13431.3, 13397-13398.3, 13364-13365.3, 13334-13335.3, 13298-13299.3

"Location:

University Land 09 #1803H Stage 3 of 40 Date:

04/21/14 Start – 10:14

End – 12:31

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1536 PSI

Ball Seat Volume 2543 BBLS

Initial Breakdown 2523 PSI

Acid Volume (7.5% HCL) 40 BBLS

Acid Break Down 6752 PSI

Pad Volume 216 BBLS

100 Mesh sand Stages .5-1.25 PPA

Total 100 Mesh Pumped 49880 LBS

Ottawa 40/70 sand stages 1-2 PPA

Total Ottawa 40/70 248640 BBLS

Garnet RCS 40/70 sand stages 2.25 PPA

Total Garnet RCS 40/70 40080 LBS

Flush 359 BBLS

ISIP 3016 PSI

Frac Gradient .82 Psi/ft

5min drop 1945 PSI

Total proppant 338600 LBS

Total fluid to recover 6753 BBLS

Total fresh water 2966 BBLS

Total produced fluid 1029 BBLS

Average Rate 66.6 BPM

Average Pressure 6560 PSI

Max Pressure 7136 PSI

Stage Comments:"

Wireline stage 4 pumped a total of 187 bbls with a maximum pumping pressure of 4100 psi set the plug at a depth of 13265 perforations from : 13250

-13251.3, 13231-13232.3, 13201-13202.3, 13165-13166.3, 13132-13133.3

"Location:

University Land 09 #1803H Stage 4 of 40 Date:

04/21/14 Start – 13:36

End – 15:56

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1601 PSI

Ball Seat Volume 231 BBLS

Initial Breakdown 4405 PSI



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# Wellwork Chronological Regulatory Report

Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6670 PSI  
Pad Volume 251 BBLS

100 Mesh sand Stages 0.50—1.25 PPA  
Total 100 Mesh Pumped 49320 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 239280 BBLS

Garnet RCS 40/70 sand stages 2.00 PPA  
Total Garnet RCS 40/70 41920 LBS

Flush 355 BBLS  
ISIP 2542 PSI  
Frac Gradient 0.76 Psi/ft  
5min drop 1920 PSI  
Total proppant 330520 LBS  
Total fluid to recover 6760 BBLS  
Total fresh water 2673 BBLS  
Total produced fluid 4087 BBLS  
Average Rate 64.4 BPM  
Average Pressure 6736 PSI  
Max Pressure 7506 PSI  
Stage Comments:"

Wireline stage 5 pumped a total of 180 bbls with a maximum pumping pressure of 3484 psi set the plug at a depth of 13090 perforations from : 13075-13076.3, 13050-13051.3, 13032-13033.3, 12999-13000.3, 12966-12967.3

"Location:

University Land 09 #1803H Stage 5 of 40 Date:

04/21/14 Start —17:07

End — 19:19

Consultant:

Randy Hagen Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1570 PSI

Ball Seat Volume 244 BBLS

Initial Breakdown 4822 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 6305 PSI

Pad Volume 327 BBLS

100 Mesh sand Stages 0.50—1.00 PPA  
Total 100 Mesh Pumped 48040 LBS

Ottawa 40/70 sand stages 1.00—1.75 PPA  
Total Ottawa 40/70 241580 BBLS

Garnet RCS 40/70 sand stages 1.75 PPA  
Total Garnet RCS 40/70 40540 LBS

Flush 351 BBLS  
ISIP 2409 PSI  
Frac Gradient 0.74 Psi/ft  
5min drop 1975 PSI  
Total proppant 330160 LBS  
Total fluid to recover 7157 BBLS  
Total fresh water 2160 BBLS  
Total produced fluid 4997 BBLS  
Average Rate 68.2 BPM  
Average Pressure 6045 PSI  
Max Pressure 6938 PSI  
Stage Comments:"

Wireline stage 6 pumped a total of 175 bbls with a maximum pumping pressure of 3001 psi set the plug at a depth of 12946 perforations from : 12932-12933.3, 12899-12900.3, 12866-12867.3, 12833-12834.3, 12798-12799.3

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start —20:21

End — 22:31

Consultant:

Randy Hagen / Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1608 PSI

Ball Seat Volume 223 BBLS

Initial Breakdown 4512 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 7,020 PSI

Pad Volume 402 BBLS

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48,100 LBS

Ottawa 40/70 sand stages .75-2.25 ppg PPA  
Total Ottawa 40/70 240,460 BBLS



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# Wellwork Chronological Regulatory Report

Garnet RCS 40/70 sand stages 2.25 ppg PPA  
Total Garnet RCS 40/70 40,940 LBS

Flush 347 BBLS  
ISIP 2,771 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2,061 PSI  
Total proppant 329,500 LBS  
Total fluid to recover 6,806 BBLS  
Total fresh water 3,648 BBLS  
Total produced fluid 3,158 BBLS  
Average Rate 68 BPM  
Average Pressure 6,206 PSI  
Max Pressure 6,747 PSI  
Stage Comments:"

Wireline Stage 7 pumped a total of 184 bbls with a maximum pumping pressure of 3,347 psi set the plug on depth at 12,780 ft perforations from:12630-12631.30, 12667-12668.15, 12700-12701.15, 12733-12734.15, 12766-12767

"Location:

University Land 09 #1803H Stage 6 of 40 Date:

04/21/14 Start -23:36

End - 01:51

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1,802 PSI

Ball Seat Volume 232 BBLS

Initial Breakdown 5,117 PSI

Acid Volume (7.5% HCL) 52 BBLS

Acid Break Down 6,750 PSI

Pad Volume 431 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 48,420 LBS

Ottawa 40/70 sand stages 1.00-2.00 ppg PPA

Total Ottawa 40/70 238,040 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA

Total Garnet RCS 40/70 39,680 LBS

Flush 343 BBLS  
ISIP 2,501 PSI  
Frac Gradient .75 Psi/ft  
5min drop 2,040 PSI  
Total proppant 326,140 LBS  
Total fluid to recover 7,037 BBLS  
Total fresh water 2,193 BBLS  
Total produced fluid 4,844 BBLS  
Average Rate 67.2 BPM  
Average Pressure 6,082 PSI  
Max Pressure 6,622 PSI  
Stage Comments:"

Wireline stage 8 pumped a total of 161 bbls of water with a maximum pumping pressure of 3,036 psi set the plug at a depth of 12,614 ft perforations from:12468-12469.30, 12501-12502.15, 12534-12535.15, 12567-12568.15, 12600-12601

"Location:

University Land 09 #1803H Stage 8 of 40 Date:

04/21/14 Start -02:55

End - 04:55

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1783 PSI

Ball Seat Volume 232 BBLS

Initial Breakdown 5117 PSI

Acid Volume (7.5% HCL) 50 BBLS

Acid Break Down 6550 PSI

Pad Volume 281 BBLS

100 Mesh sand Stages 0.5-1.50 ppg PPA

Total 100 Mesh Pumped 47060 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA

Total Ottawa 40/70 240100 BBLS

Garnet RCS 40/70 sand stages 2.75 ppg PPA

Total Garnet RCS 40/70 39840 LBS

Flush 339 BBLS  
ISIP 2927 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2079 PSI  
Total proppant 327000 LBS  
Total fluid to recover 5979 BBLS  
Total fresh water 3601 BBLS



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# Wellwork Chronological Regulatory Report

Total produced fluid 2378 BBLS  
Average Rate 66.9 BPM  
Average Pressure 5611 PSI  
Max Pressure 6638 PSI  
Stage Comments:"  
Wireline stage 9 pumped a total of 167 bbls of water with a maximum pumping pressure of 3480 psi set the plug at a depth of 12448 ft perforations from : 12434-12435.3, 12404-12405.3, 12368-12369.3, 12335-12336.3, 12302-12303.3

## Daily Summary

Activity Date:	4/23/2014	Days on Compl:	17	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

### 24 Hour Summary:

Remarks  
"Location:  
University Land 09 #1803H Stage 9 of 40 Date:  
04/22/14 Start – 05:54  
End – 07:51  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1815 PSI  
Ball Seat Volume 225 BBLS  
Initial Breakdown 4409 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6430 PSI  
Pad Volume 156 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48120 LBS  
  
Ottawa 40/70 sand stages 1.00-2.50 PPA  
Total Ottawa 40/70 243700 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 PPA  
Total Garnet RCS 40/70 39520 LBS  
  
Flush 335 BBLS  
ISIP 2808 PSI  
Frac Gradient .79 Psi/ft  
5min drop 2056 PSI  
Total proppant 331340 LBS  
Total fluid to recover 5814 BBLS  
Total fresh water 3649 BBLS  
Total produced fluid 2165 BBLS  
Average Rate 62.5 BPM  
Average Pressure 5644 PSI  
Max Pressure 6712 PSI  
Stage Comments:"  
Wireline stage 10 pumped a total of 166 bbls of water with a maximum pumping pressure of 3375 psi set the plug at a depth of 12282 ft perforations from : 12262-12263.3, 12235-12236.3, 12202-12203.3, 12169-12170.3, 12132-12133.3  
"Location:  
University Land 09 #1803H Stage 10 of 40 Date:  
04/22/14 Start – 08:46  
End – 10:57  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1819 PSI  
Ball Seat Volume 220 BBLS  
Initial Breakdown 5272 PSI  
Acid Volume (7.5% HCL) 41 BBLS  
Acid Break Down 6758 PSI  
Pad Volume 158 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49700 LBS  
  
Ottawa 40/70 sand stages .25-2.25 PPA  
Total Ottawa 40/70 239360 BBLS  
  
Garnet RCS 40/70 sand stages 2.75 PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 332 BBLS  
ISIP 2909 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2089 PSI  
Total proppant 328980 LBS  
Total fluid to recover 6802 BBLS  
Total fresh water 3715 BBLS  
Total produced fluid 3087 BBLS  
Average Rate 64.3 BPM





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# Wellwork Chronological Regulatory Report

Average Pressure 6156 PSI  
Max Pressure 7123 PSI  
Stage Comments:"  
Wireline stage 11 pumped a total of 151 bbls of water with a maximum pumping pressure of 3450 psi set the plug at a depth of 12116 ft perforations from : 12102-12103.3, 12069-12070.3, 12036-12037.3, 12000-12001.3, 11972-11973.3  
"Location:  
University Land 09 #1803H Stage 11 of 40 Date:  
04/22/14 Start – 12:06  
End – 14:03  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1734 PSI  
Ball Seat Volume 215 BBLS  
Initial Breakdown 2345 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6560 PSI  
Pad Volume 131 BBLS  
  
100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 49160 LBS  
  
Ottawa 40/70 sand stages .50-3.00 PPA  
Total Ottawa 40/70 237880 BBLS  
  
Garnet RCS 40/70 sand stages 3.25 PPA  
Total Garnet RCS 40/70 38920 LBS  
  
Flush 332 BBLS  
ISIP 3571 PSI  
Frac Gradient .89 Psi/ft  
5min drop 2700 PSI  
Total proppant 352960 LBS  
Total fluid to recover 5992 BBLS  
Total fresh water 1953 BBLS  
Total produced fluid 4039 BBLS  
Average Rate 65.5 BPM  
Average Pressure 5833 PSI  
Max Pressure 6326 PSI  
Stage Comments:"  
Wireline stage 12 pumped a total of 137 bbls of water with a maximum pumping pressure of 4075 psi set the plug at a depth of 11946 ft perforations from : 11932-11933.3, 11903-11904.3, 11870-11871.3, 11840-11841.3, 11804-11805.3  
Greasing the wellhead  
"Location:  
University Land 09 #1803H Stage 12 of 40 Date:  
04/22/14 Start – 15:32  
End – 17:08  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1867 PSI  
Ball Seat Volume 92 BBLS  
Initial Breakdown 4470 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 537 BBLS  
  
100 Mesh sand Stages .50 – 2.00 ppg PPA  
Total 100 Mesh Pumped 49,060 LBS  
  
Ottawa 40/70 sand stages 2.00-2.25 ppg PPA  
Total Ottawa 40/70 238,900 BBLS  
  
Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40,240 LBS  
  
Flush 328 BBLS  
ISIP 3186 PSI  
Frac Gradient .84 Psi/ft  
5min drop 2138 PSI  
Total proppant 328,200 LBS  
Total fluid to recover 5036 BBLS  
Total fresh water 855 BBLS  
Total produced fluid 4181 BBLS  
Average Rate 58.7 BPM  
Average Pressure 5474 PSI  
Max Pressure 6940 PSI  
Stage Comments:"  
Wireline stage 13 pumped a total of 139 bbls of water with a maximum pumping pressure of 3905 psi set the plug at a depth of 11774 ft perforations from : 11638-11639.30, 11671-11672.15, 11707-11708.15, 11737-11738.15, 11760-11761  
"Location:  
University Land 09 #1803H Stage 13 of 40 Date:  
04/22/14 Start – 18:31  
End – 20:49





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# Wellwork Chronological Regulatory Report

Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1726 PSI  
Ball Seat Volume 196 BBLS  
Initial Breakdown 4955 PSI  
Acid Volume (7.5% HCL) 47 BBLS  
Acid Break Down 7050 PSI  
Pad Volume 524 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48200 LBS

Ottawa 40/70 sand stages .50-2.25 ppg PPA  
Total Ottawa 40/70 240760 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 41000 LBS

Flush 322 BBLS  
ISIP 2939 PSI  
Frac Gradient .81 Psi/ft  
5min drop 2089 PSI  
Total proppant 329960 LBS  
Total fluid to recover 6922 BBLS  
Total fresh water 2605 BBLS  
Total produced fluid 4317 BBLS  
Average Rate 56 BPM  
Average Pressure 5689 PSI  
Max Pressure 6491 PSI  
Stage Comments:"  
Wireline stage 14 pumped a total of 133 bbls of water with a maximum pumping pressure of 3629 psi set the plug at a depth of 11618 ft perforations from :11472-11473.30, 11505-11506.15, 11538-11539.15, 11571-11572.15, 11604-11605  
"Location:  
University Land 09 #1803H Stage 14 of 40 Date:  
04/22/14 Start – 21:49  
End – 23:50  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1781 PSI  
Ball Seat Volume 199 BBLS  
Initial Breakdown 4810 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6900 PSI  
Pad Volume 540 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48100 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 240140 BBLS

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 40060 LBS

Flush 319 BBLS  
ISIP 3271 PSI  
Frac Gradient .85 Psi/ft  
5min drop 1973 PSI  
Total proppant 328300 LBS  
Total fluid to recover 5704 BBLS  
Total fresh water 1922 BBLS  
Total produced fluid 3782 BBLS  
Average Rate 52.6 BPM  
Average Pressure 5248 PSI  
Max Pressure 6185 PSI  
Stage Comments:"  
Wireline stage 15 pumped a total of 138 bbls of water with a maximum pumping pressure of 3577 psi set the plug at a depth of 11452 ft perforations from :11306-11307.30, 11339-11340.15, 11372-11373.15, 11404-11405.15, 11438-11439  
"Location:  
University Land 09 #1803H Stage 15 of 40 Date:  
04/22/14 Start – 12:41  
End – 03:06  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1713 PSI  
Ball Seat Volume 200 BBLS  
Initial Breakdown 4631 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6400 PSI  
Pad Volume 497 BBLS



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# Wellwork Chronological Regulatory Report

100 Mesh sand Stages .50-1.00 ppg PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-2.25 ppg PPA  
Total Ottawa 40/70 239960 BBLs

Garnet RCS 40/70 sand stages 2.50 ppg PPA  
Total Garnet RCS 40/70 39760 LBS

Flush 315 BBLs

ISIP 3492 PSI

Frac Gradient .88 Psi/ft

5min drop 2228 PSI

Total proppant 327940 LBS

Total fluid to recover 7507 BBLs

Total fresh water 5660 BBLs

Total produced fluid 1847 BBLs

Average Rate 60.9 BPM

Average Pressure 6013 PSI

Max Pressure 6862 PSI

Stage Comments:"

Wireline stage 16 pumped a total of 129 bbls of water with a maximum pumping pressure of 4122 psi set the plug at a depth of 11280 ft perforations from: 11140-11141.30, 11173-11174.15, 11206-11207.15, 11239-11240.15, 11266-11267

Start stage 16

## Daily Summary

Activity Date: 4/24/2014

Days on Compl: 18

TD (TVD): 0'

Rig Company:

Rig Name:

TD (MD): 0'

### 24 Hour Summary:

Remarks

"Location:

University Land 09 #1803H Stage 16 of 40 Date:

04/23/14 Start – 04:04

End – 05:50

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1977 PSI

Ball Seat Volume 201 BBLs

Initial Breakdown 4513 PSI

Acid Volume (7.5% HCL) 40 BBLs

Acid Break Down 6420 PSI

Pad Volume 106 BBLs

100 Mesh sand Stages .50-1.50 PPA

Total 100 Mesh Pumped 48000 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA

Total Ottawa 40/70 238400 BBLs

Garnet RCS 40/70 sand stages 3.50 PPA

Total Garnet RCS 40/70 40780 LBS

Flush 308 BBLs

ISIP 2889 PSI

Frac Gradient .80 Psi/ft

5min drop 2082 PSI

Total proppant 327180 LBS

Total fluid to recover 5338 BBLs

Total fresh water 3689 BBLs

Total produced fluid 1649 BBLs

Average Rate 62.1 BPM

Average Pressure 5487 PSI

Max Pressure 6494 PSI

Stage Comments:"

Wireline stage 17 pumped a total of 113 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 11116 ft perforations from : 11100-11101.3, 11073-11074.3, 11040-11041.3, 11007-11008.3, 10974-10975.3

"Location:

University Land 09 #1803H Stage 17 of 40 Date:

04/23/14 Start – 06:49

End – 08:30

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1794 PSI

Ball Seat Volume 193 BBLs

Initial Breakdown 4645 PSI

Acid Volume (7.5% HCL) 40 BBLs

Acid Break Down 6890 PSI

Pad Volume 158 BBLs



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# Wellwork Chronological Regulatory Report

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47440 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239500 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40140 LBS

Flush 305 BBLS  
ISIP 4500 PSI  
Frac Gradient 1.01 Psi/ft  
5min drop 2312 PSI  
Total proppant 327080 LBS  
Total fluid to recover 4958 BBLS  
Total fresh water 3492 BBLS  
Total produced fluid 1466 BBLS  
Average Rate 66.5 BPM  
Average Pressure 5809 PSI  
Max Pressure 7615 PSI  
Stage Comments:"

Wireline stage 18 pumped a total of 114 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10954 ft perforations from : 10940-10941.3, 10907-10908.3, 10874-10875.3, 10841-10842.3, 10808-10809.3

"Location:

University Land 09 #1803H Stage 18 of 40 Date:

04/23/14 Start – 09:21

End – 11:04

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 2027 PSI

Ball Seat Volume 196 BBLS

Initial Breakdown 4651 PSI

Acid Volume (7.5% HCL) 40 BBLS

Acid Break Down 6875 PSI

Pad Volume 127 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 47280 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 239560 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39560 LBS

Flush 301 BBLS  
ISIP 3240 PSI  
Frac Gradient .85 Psi/ft  
5min drop 2095 PSI  
Total proppant 326400 LBS  
Total fluid to recover 5104 BBLS  
Total fresh water 3227 BBLS  
Total produced fluid 1777 BBLS  
Average Rate 64.6 BPM  
Average Pressure 5579 PSI  
Max Pressure 6854 PSI  
Stage Comments:"

Wireline stage 19 pumped a total of 118 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10788 ft perforations from : 10771-10775.3, 10741-10742.3, 10708-10709.3, 10675-10676.3, 10642-10643.3

"Location:

University Land 09 #1803H Stage 19 of 40 Date:

04/23/14 Start – 11:59

End – 13:39

Consultant:

Storm McDonald Service Company:

UPP Treater:

Kyle Fuqua

Initial Well-Head Pressure 1774 PSI

Ball Seat Volume 174 BBLS

Initial Breakdown 4861 PSI

Acid Volume (7.5% HCL) 40 BBLS

Acid Break Down 6749 PSI

Pad Volume 103 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48040 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240460 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39200 LBS

Flush 297 BBLS



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# Wellwork Chronological Regulatory Report

ISIP 3529 PSI  
Frac Gradient .88 Psi/ft  
5min drop 2437 PSI  
Total proppant 327700 LBS  
Total fluid to recover 5067 BBLS  
Total fresh water 3392 BBLS  
Total produced fluid 1675 BBLS  
Average Rate 65.0 BPM  
Average Pressure 5305 PSI  
Max Pressure 6657 PSI  
Stage Comments:"  
Wireline stage 20 pumped a total of 123 bbls of water with a maximum pumping pressure of 3415 psi set the plug at a depth of 10618 ft perforations from : 10600-10601.3, 10575-10576.3, 10542-10543.3, 10509-10510.3, 10476-10477.3  
"Location:  
University Land 09 #1803H Stage 20 of 40 Date:  
04/23/14 Start – 14:34  
End – 16:16  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
Kyle Fuqua  
Initial Well-Head Pressure 1898 PSI  
Ball Seat Volume 180 BBLS  
Initial Breakdown 4510 PSI  
Acid Volume (7.5% HCL) 40 BBLS  
Acid Break Down 6783 PSI  
Pad Volume 213 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49960 LBS  
  
Ottawa 40/70 sand stages 1.00-3.00 ppg PPA  
Total Ottawa 40/70 240000 BBLS  
  
Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 41600 LBS  
  
Flush 293 BBLS  
ISIP 2915 PSI  
Frac Gradient .80 Psi/ft  
5min drop 2076 PSI  
Total proppant 331580 LBS  
Total fluid to recover 5224 BBLS  
Total fresh water 3461 BBLS  
Total produced fluid 1763 BBLS  
Average Rate 63.7 BPM  
Average Pressure 5095 PSI  
Max Pressure 6484 PSI  
Stage Comments:"  
Wireline stage 21 pumped a total of 111 bbls of water with a maximum pumping pressure of 4114 psi set the plug at a depth of 10456 ft perforations from :10310-10311.30, 10343-10344.15, 10376-10377.15, 10409-10410.15, 10442-10443  
"Location:  
University Land 09 #1803H Stage 21 of 40 Date:  
04/23/14 Start – 17:14  
End – 18:51  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1858 PSI  
Ball Seat Volume 176 BBLS  
Initial Breakdown 4300 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 6500 PSI  
Pad Volume 373 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49080 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 236863 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 39920 LBS  
  
Flush 289 BBLS  
ISIP 2546 PSI  
Frac Gradient .78 Psi/ft  
5min drop 2050 PSI  
Total proppant 325863 LBS  
Total fluid to recover 5033 BBLS  
Total fresh water 903 BBLS  
Total produced fluid 4103 BBLS  
Average Rate 64 BPM  
Average Pressure 5165 PSI  
Max Pressure 6100 PSI



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## Stage Comments:"

Wireline stage 22 pumped a total of 87 bbls of water with a maximum pumping pressure of 3016 psi set the plug at a depth of 10290 ft perforations from :10144-10145.30, 10177-10178.15, 10210-10211.15, 10246-10247.15, 10276-10277

"Location:

University Land 09 #1803H Stage 22 of 40 Date:

04/23/14 Start – 19:37

End – 21:22

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1779 PSI

Ball Seat Volume 176 BBLS

Initial Breakdown 3906 PSI

Acid Volume (7.5% HCL) 47 BBLS

Acid Break Down 6400 PSI

Pad Volume 311 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 48020 LBS

Ottawa 40/70 sand stages 1.00-3.00 ppg PPA

Total Ottawa 40/70 240440 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA

Total Garnet RCS 40/70 50100 LBS

Flush 285 BBLS

ISIP 2526 PSI

Frac Gradient .75 Psi/ft

5min drop 2050 PSI

Total proppant 338560 LBS

Total fluid to recover 5369 BBLS

Total fresh water 1554 BBLS

Total produced fluid 3815 BBLS

Average Rate 68.5 BPM

Average Pressure 5197 PSI

Max Pressure 6127 PSI

Stage Comments:"

Wireline stage 23 pumped a total of 83 bbls of water with a maximum pumping pressure of 3368 psi set the plug at a depth of 10124 ft perforations from :9978-9979.30, 10011-10012.15, 10044-10045.15, 10077-10078.15, 10110-10111

"Location:

University Land 09 #1803H Stage 23 of 40 Date:

04/23/14 Start – 22:07

End – 23:51

Consultant:

Justin Stringer Service Company:

UPP Treater:

Brian Fails

Initial Well-Head Pressure 1679 PSI

Ball Seat Volume 176 BBLS

Initial Breakdown 5051 PSI

Acid Volume (7.5% HCL) 53 BBLS

Acid Break Down 6700 PSI

Pad Volume 306 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 48720 LBS

Ottawa 40/70 sand stages 1.00-2.50 ppg PPA

Total Ottawa 40/70 238820 BBLS

Garnet RCS 40/70 sand stages 3.00 ppg PPA

Total Garnet RCS 40/70 40080 LBS

Flush 281 BBLS

ISIP 2527 PSI

Frac Gradient .75 Psi/ft

5min drop 1820 PSI

Total proppant 327620 LBS

Total fluid to recover 5161 BBLS

Total fresh water 1222 BBLS

Total produced fluid 3939 BBLS

Average Rate 66.9 BPM

Average Pressure 5078 PSI

Max Pressure 5960 PSI

Stage Comments:"

Wireline stage 24 pumped a total of 77 bbls of water with a maximum pumping pressure of 3178 psi set the plug at a depth of 9958 ft perforations from: 9812-9813.30, 9845-9846.15, 9880-9881.15, 9911-9912.15, 9944-9945

"Location:

University Land 09 #1803H Stage 24 of 40 Date:

04/23/14 Start – 24:39

End – 02:17

Consultant:

Justin Stringer Service Company:

UPP Treater:



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# Wellwork Chronological Regulatory Report

Brian Fails  
Initial Well-Head Pressure 1642 PSI  
Ball Seat Volume 167 BBLS  
Initial Breakdown 6069 PSI  
Acid Volume (7.5% HCL) 44 BBLS  
Acid Break Down 7000 PSI  
Pad Volume 348 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 48800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 240500 BBLS

Garnet RCS 40/70 sand stages 3.50 ppg PPA  
Total Garnet RCS 40/70 40280 LBS

Flush 278 BBLS  
ISIP 2784 PSI  
Frac Gradient .79 Psi/ft  
5min drop 1890 PSI  
Total proppant 329580 LBS  
Total fluid to recover 5066 BBLS  
Total fresh water 1277 BBLS  
Total produced fluid 3789 BBLS  
Average Rate 70 BPM  
Average Pressure 5159 PSI  
Max Pressure 6988 PSI  
Stage Comments:"  
Wireline stage 25 pumped a total of 71 bbls of water with a maximum pumping pressure of 3314 psi set the plug at a depth of 9792 ft perforations from:9646-9647.30, 9679-9680.15, 9712-9713.15, 9740-9741.15, 9778-9779  
greasing well head  
Start stage 26

## Daily Summary

Activity Date:	4/25/2014	Days on Compl:	19	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

### 24 Hour Summary:

Remarks  
"Location:  
University Land 09 #1803H Stage 25 of 40 Date:  
04/24/14 Start – 03:43  
End – 07:47  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Brian Fails  
Initial Well-Head Pressure 1539 PSI  
Ball Seat Volume 56 BBLS  
Initial Breakdown 4820 PSI  
Acid Volume (7.5% HCL) 46 BBLS  
Acid Break Down 7132 PSI  
Pad Volume 22 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48220 LBS

Ottawa 40/70 sand stages 1.00-3.00 PPA  
Total Ottawa 40/70 240180 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 39780 LBS

Flush 1861 BBLS  
ISIP 3727 PSI  
Frac Gradient .91 Psi/ft  
5min drop 2560 PSI  
Total proppant 328180 LBS  
Total fluid to recover 6647 BBLS  
Total fresh water 2774 BBLS  
Total produced fluid 3873 BBLS  
Average Rate 64.9 BPM  
Average Pressure 6037 PSI  
Max Pressure 7010 PSI  
Stage Comments:"  
Wireline stage 26 pumped a total of 64 bbls of water with a maximum pumping pressure of 4780 psi set the plug at a depth of 9626 ft perforations from : 9610-9611.3, 9579-9580.3, 9546-9547.3, 9513-9514.3, 9478-9479.3  
Universal workingon pump trucks  
"Location:  
University Land 09 #1803H Stage 26 of 40 Date:  
04/24/14 Start – 09:42  
End – 11:13  
Consultant:  
Storm McDonald Service Company:



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# Wellwork Chronological Regulatory Report

UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1633 PSI  
Ball Seat Volume 146 BBLS  
Initial Breakdown 1531 PSI  
Acid Volume (7.5% HCL) 42 BBLS  
Acid Break Down 6360 PSI  
Pad Volume 103 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 39960 LBS

Ottawa 40/70 sand stages 1.00-3.50 PPA  
Total Ottawa 40/70 242560 BBLS

Garnet RCS 40/70 sand stages 4.00 PPA  
Total Garnet RCS 40/70 323120 LBS

Flush 272 BBLS  
ISIP 3950 PSI  
Frac Gradient .81 Psi/ft  
5min drop 1950 PSI  
Total proppant 323120 LBS  
Total fluid to recover 4653 BBLS  
Total fresh water 1189 BBLS  
Total produced fluid 3464 BBLS  
Average Rate 67.0 BPM  
Average Pressure 5409 PSI  
Max Pressure 6296 PSI  
Stage Comments:"  
Wireline stage 27 pumped a total of 63 bbls of water with a maximum pumping pressure of 4010 psi set the plug at a depth of 9460 ft perforations from : 9446-9447.3, 9408-9409.3, 9380-9381.3, 9343-9434.3, 9314-9315.3  
"Location:  
University Land 09 #1803H Stage 27 of 40 Date:  
04/24/14 Start – 12:00  
End – 13:37  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1761 PSI  
Ball Seat Volume 133 BBLS  
Initial Breakdown 4585 PSI  
Acid Volume (7.5% HCL) 43 BBLS  
Acid Break Down 6701 PSI  
Pad Volume 84 BBLS

100 Mesh sand Stages .50-1.50 PPA  
Total 100 Mesh Pumped 48600 LBS

Ottawa 40/70 sand stages 1.50-3.50 PPA  
Total Ottawa 40/70 240620 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA  
Total Garnet RCS 40/70 40220 LBS

Flush 268 BBLS  
ISIP 2521 PSI  
Frac Gradient .75 Psi/ft  
5min drop 1950 PSI  
Total proppant 329440 LBS  
Total fluid to recover 4788 BBLS  
Total fresh water 563 BBLS  
Total produced fluid 4225 BBLS  
Average Rate 62.8 BPM  
Average Pressure 5493 PSI  
Max Pressure 6658 PSI  
Stage Comments:"  
Wireline stage 28 pumped a total of 61 bbls of water with a maximum pumping pressure of 4010 psi set the plug at a depth of 9288 ft perforations from : 9276-9277.3, 9247-9248.3, 9214-9215.3, 9181-9182.3, 9148-9149.3  
"Location:  
University Land 09 #1803H Stage 28 of 40 Date:  
04/24/14 Start – 14:20  
End – 16:04  
Consultant:  
Storm McDonald Service Company:  
UPP Treater:  
J. Rodriguez  
Initial Well-Head Pressure 1641 PSI  
Ball Seat Volume 155 BBLS  
Initial Breakdown 4827 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 5950 PSI  
Pad Volume 166 BBLS

100 Mesh sand Stages .50-1.50 ppg PPA



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# Wellwork Chronological Regulatory Report

Total 100 Mesh Pumped 48,220 LBS

Ottawa 40/70 sand stages 1.00-3.00 ppg PPA

Total Ottawa 40/70 239,740 BBLs

Garnet RCS 40/70 sand stages 3.50 ppg PPA

Total Garnet RCS 40/70 41,580 LBS

Flush 263 BBLs

ISIP 3,286 PSI

Frac Gradient .85 Psi/ft

5min drop 2,100 PSI

Total proppant 329,540 LBS

Total fluid to recover 5,411 BBLs

Total fresh water 1544 BBLs

Total produced fluid 2467 BBLs

Average Rate 63.8 BPM

Average Pressure 5,732 PSI

Max Pressure 6,421 PSI

Stage Comments:"

Wireline stage 29 pumped a total of 57 bbls of water with a maximum pumping pressure of 3770 psi set the plug at a depth of 9128 ft perforations from: 8982-8983.30, 9015-9016.15, 9048-9049.15, 9048-9049.15, 9080-9081.15, 9114-9115

"Location:

University Land 09 #1803H Stage 29 of 40 Date:

04/24/14 Start – 16:46

End – 18:14

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuleta

Initial Well-Head Pressure 1747 PSI

Ball Seat Volume 146 BBLs

Initial Breakdown 4611 PSI

Acid Volume (7.5% HCL) 50 BBLs

Acid Break Down 6600 PSI

Pad Volume 340 BBLs

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 49,800 LBS

Ottawa 40/70 sand stages 1.50-3.00 ppg PPA

Total Ottawa 40/70 237,620 BBLs

Garnet RCS 40/70 sand stages 3.50 ppg PPA

Total Garnet RCS 40/70 40,020 LBS

Flush 259 BBLs

ISIP 2,678 PSI

Frac Gradient .77 Psi/ft

5min drop 1,930 PSI

Total proppant 327,440 LBS

Total fluid to recover 4355 BBLs

Total fresh water 1,097 BBLs

Total produced fluid 3,258 BBLs

Average Rate 69.2 BPM

Average Pressure 4,923 PSI

Max Pressure 5,784 PSI

Stage Comments:"

Wireline stage 30 pumped a total of 47 bbls of water with a maximum pumping pressure of 3122 psi set the plug at a depth of 8962 ft perforations from: 8816-8817.30, 8849-8850.15, 8882-8883.15, 8915-8916.15, 8948-8949

"Location:

University Land 09 #1803H Stage 30 of 40 Date:

04/24/14 Start – 18:52

End – 20:34

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuleta

Initial Well-Head Pressure 1,610 PSI

Ball Seat Volume 145 BBLs

Initial Breakdown 4,662 PSI

Acid Volume (7.5% HCL) 46 BBLs

Acid Break Down 6,800 PSI

Pad Volume 190 BBLs

100 Mesh sand Stages .50-1.50 ppg PPA

Total 100 Mesh Pumped 48,040 LBS

Ottawa 40/70 sand stages 1.50-2.50 ppg PPA

Total Ottawa 40/70 143,860 BBLs

Garnet RCS 40/70 sand stages .50-1.00 ppg PPA

Total Garnet RCS 40/70 31,360 LBS

Flush 258 BBLs

ISIP 3,040 PSI





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# Wellwork Chronological Regulatory Report

Frac Gradient .82 Psi/ft  
5min drop 1,718 PSI  
Total proppant 223,260 LBS  
Total fluid to recover 5,171 BBLS  
Total fresh water 1,938 BBLS  
Total produced fluid 3,233 BBLS  
Average Rate 64.5 BPM  
Average Pressure 5,559 PSI  
Max Pressure 6,816 PSI  
Stage Comments:"  
Wireline stage 31 pumped a total of 42 bbls of water with a maximum pumping pressure of 3489 psi set the plug at a depth of 8796 ft perforations from: 8650-8651.30, 8683-8684.15, 8718-8719.15, 8749-8750.15, 8782-8783  
"Location:  
University Land 09 #1803H Stage 31 of 40 Date:  
04/24/14 Start – 21:11  
End – 22:46  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 3,387 PSI  
Ball Seat Volume 136 BBLS  
Initial Breakdown 4,573 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 6,450 PSI  
Pad Volume 230 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 49,020 LBS  
  
Ottawa 40/70 sand stages 1.50-3.00 ppg PPA  
Total Ottawa 40/70 241,580 BBLS  
  
Garnet RCS 40/70 sand stages 3.00 ppg PPA  
Total Garnet RCS 40/70 40,600 LBS  
  
Flush 252 BBLS  
ISIP 3,387 PSI  
Frac Gradient .86 Psi/ft  
5min drop 2,102 PSI  
Total proppant 331,200 LBS  
Total fluid to recover 4,794 BBLS  
Total fresh water 2,868 BBLS  
Total produced fluid 1,926 BBLS  
Average Rate 61.1 BPM  
Average Pressure 4,989 PSI  
Max Pressure 6,484 PSI  
Stage Comments:"  
Wireline stage 32 pumped a total of 39 bbls of water with a maximum pumping pressure of 3176 psi set the plug at a depth of 8630 ft perforations from: 8484-8485.30, 8515-8516.15, 8550-8551.15, 8586-8587.15, 8616-8617  
"Location:  
University Land 09 #1803H Stage 32 of 40 Date:  
04/24/14 Start – 23:24  
End – 01:10  
Consultant:  
Justin Stringer Service Company:  
UPP Treater:  
Jared Archuletta  
Initial Well-Head Pressure 1,808 PSI  
Ball Seat Volume 135 BBLS  
Initial Breakdown 4,586 PSI  
Acid Volume (7.5% HCL) 48 BBLS  
Acid Break Down 5,900 PSI  
Pad Volume 143 BBLS  
  
100 Mesh sand Stages .50-1.50 ppg PPA  
Total 100 Mesh Pumped 47,760 LBS  
  
Ottawa 40/70 sand stages .50-3.00 ppg PPA  
Total Ottawa 40/70 239,440 BBLS  
  
Garnet RCS 40/70 sand stages 50,520 PPA  
Total Garnet RCS 40/70 3.50 ppg LBS  
  
Flush 247 BBLS  
ISIP 3,410 PSI  
Frac Gradient .87 Psi/ft  
5min drop 2,020 PSI  
Total proppant 337,720 LBS  
Total fluid to recover 5,472 BBLS  
Total fresh water 3,474 BBLS  
Total produced fluid 1,998 BBLS  
Average Rate 68 BPM  
Average Pressure 4,713 PSI  
Max Pressure 5,320 PSI  
Stage Comments:"



Enduring Resources II, LLC

511 16th St - Suite 700

Denver, CO 80202

(303) 573-1222

# Wellwork Chronological Regulatory Report

Wireline stage 33 pumped a total of 34 bbls of water with a maximum pumping pressure of 3620 psi set the plug at a depth of 8464 ft perforations from:8318-8319.30, 8351-8352.15, 8384-8385.15, 8417-8418.15, 8446-8447

"Location:

University Land 09 #1803H Stage 33 of 40 Date:

04/24/14 Start – 01:45

End – 03:21

Consultant:

Justin Stringer Service Company:

UPP Treater:

Jared Archuletta

Initial Well-Head Pressure 1,829 PSI

Ball Seat Volume 131 BBLS

Initial Breakdown 5,269 PSI

Acid Volume (7.5% HCL) 48 BBLS

Acid Break Down 6,879 PSI

Pad Volume 79 BBLS

100 Mesh sand Stages .50-1.50 PPA

Total 100 Mesh Pumped 48020 LBS

Ottawa 40/70 sand stages 1.50-3.00 PPA

Total Ottawa 40/70 239720 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA

Total Garnet RCS 40/70 39640 LBS

Flush 243 BBLS

ISIP 4072 PSI

Frac Gradient .95 Psi/ft

5min drop 1960 PSI

Total proppant 327640 LBS

Total fluid to recover 4851 BBLS

Total fresh water 3042 BBLS

Total produced fluid 1809 BBLS

Average Rate 60.2 BPM

Average Pressure 4824 PSI

Max Pressure 5635 PSI

Stage Comments:"

Wireline stage 34 pumped a total of 25 bbls of water with a maximum pumping pressure of 3760 psi set the plug at a depth of 8298 ft perforations from : 8284-8285.3, 8251-8252.3, 8218-8219.3, 8185-8186.3, 8152-8153.3

"Location:

University Land 09 #1803H Stage 34 of 40 Date:

04/25/14 Start – 03:59

End – 05:30

Consultant:

Storm McDonald Service Company:

UPP Treater:

J. Rodriguez

Initial Well-Head Pressure 1900 PSI

Ball Seat Volume 128 BBLS

Initial Breakdown 4312 PSI

Acid Volume (7.5% HCL) 54 BBLS

Acid Break Down 6458 PSI

Pad Volume 48 BBLS

100 Mesh sand Stages .50-1.50 PPA

Total 100 Mesh Pumped 50280 LBS

Ottawa 40/70 sand stages 1.50-3.50 PPA

Total Ottawa 40/70 241220 BBLS

Garnet RCS 40/70 sand stages 3.50 PPA

Total Garnet RCS 40/70 42220 LBS

Flush 239 BBLS

ISIP 3355 PSI

Frac Gradient .86 Psi/ft

5min drop 2150 PSI

Total proppant 333720 LBS

Total fluid to recover 4657 BBLS

Total fresh water 3038 BBLS

Total produced fluid 1619 BBLS

Average Rate 62.3 BPM

Average Pressure 4970 PSI

Max Pressure 6339 PSI

Stage Comments:"

Set kill plug at 7250

## Daily Summary

Activity Date:	4/26/2014	Days on Compl:	20	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'



Enduring Resources II, LLC  
511 16th St - Suite 700  
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(303) 573-1222

# Wellwork Chronological Regulatory Report

<b>24 Hour Summary:</b>	Water to Recover Total (bbls) 195,521  100 Mesh Total lbs 1,686,300  47/70 Total lbs 7,772,191  RCS Total lbs 1,368,040  Total lbs of proppant 10,826,531
<b>Daily Summary</b>	
<b>Activity Date:</b>	5/1/2014
<b>Rig Company:</b>	
<b>24 Hour Summary:</b>	Rig up Drillout services Released 6 light plants from RPW 4 remaining 04-30-14. Released 6 toilets and 1 trash trailer from energy waste 2 toilets and 1 trash trailer remaining 04-30-14 Released 1 500 bbl opent top with gas buster from Wolverine 04-30-14  Rig up completions rig, Mixing plant, well heads , flow lines, tanks, Fesco drill out equipment, BOP and function test, pressure test surface equipment to 2500#, pressure wash and clen threads on PH-6 drill pipe. Waiting on TTS tool Hand. Make up TTS BHA, Roller cone bit, Rotary sub, Titan mud motor, Back pressure valve, AV sub, Rotary sub, 2 flapper valves, test motor. TIH with TTS BHA and 2 7/8 PH-6 drill pipe.
<b>Daily Summary</b>	
<b>Activity Date:</b>	5/2/2014
<b>Rig Company:</b>	
<b>24 Hour Summary:</b>	Talked about ranch rules and over head safety. TIH to kill plug w/ 2 7/8 PH-6 8.7# work string and TTS BHA. Drillout Kill Plug w/ jt 231 (7159'/kb) in 5 minutes, FCP - 600#, circulating pressure - 5500# @ 6.5 bpm in & 6.5 bpm out, pump 10 bbl 100 vis sweep, circulate sweep to surface in 20 minutes. Continue TIH to Plug #1. Tag Plug #1 w/ jt 264 (8298'/kb). Drill plug in 9 mins @6.5 BPM in & 6.5 BPM out FCP 700#, Circulating Pressure 5214#, very light sand, TIH to Plug #2. Tag Plug #2 w/ jt 270 (8464'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 750#, Circulating Pressure 5500#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #3. Tag Plug #3 w/ jt 275 (8630'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 580#, Circulating Pressure 5740#, very light sand, TIH to Plug #4. Tag Plug #4 w/ jt 280 (8796'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 750#, Circulating Pressure 5830#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #5. Laydown machine broke down start picking pipe up by hand, Tag Plug #5 w/ jt 286 (8962'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 650#, Circulating Pressure 5800#, very light sand, TIH to Plug #6. Tag Plug #6 w/ jt 291 (9128'/kb). Drill plug in 5 mins @ 6.5 BPM in & 6.5 BPM out FCP 600#, Circulating Pressure 6200#, pump 5bbl 100vis sweep, very light sand, TIH to Plug #7. Tag Plug #7 w/ jt 296 (9288'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6300#, very light sand, TIH to Plug #8. Tag Plug #8 w/ jt 302 (9626'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 5600#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #9. Tag Plug #9 w/ jt 307 (9792'/kb). Drill plug in 6 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 6400#, very light sand, TIH to Plug #10. Tag Plug #10 w/ jt 312 (9958'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 480#, Circulating Pressure 6500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #11. Circulating 10bbl 100 vis sweep bottoms up. Circulating 10bbl 100 vis sweep bottoms up. Tag Plug #11 w/ jt 317 (9958'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 560#, Circulating Pressure 5500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #12. Tag Plug #12 w/ jt 323 (10124'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 520#, Circulating Pressure 5400#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #13. Tag Plug #13 w/ jt 328 (10290'/kb). Drill plug in 4 mins @ 6.5 BPM in & 6.5 BPM out FCP 500#, Circulating Pressure 5500#, pump 10bbl 100 vis sweep, very light sand, TIH to Plug #14. Pulled threads on joint in slips @ jt 331, tried to screw back in could not screw back in. Waiting on 3 1/8 and 2 1/4 sphere over shot, circulating with TIW valve @ 3 bpm in & 3 bpm out. Run over shot on pipe.
<b>Daily Summary</b>	
<b>Activity Date:</b>	5/3/2014
<b>Rig Company:</b>	



Enduring Resources II, LLC  
511 16th St - Suite 700  
Denver, CO 80202  
(303) 573-1222

# Wellwork Chronological Regulatory Report

<p><b>24 Hour Summary:</b></p>	<p>Talked about well control and pinch points. Tried over shot w/ 3 1/4" ID grappels, could not get good enough bite over toll joint, tried spear w/ 2.2" OD grappels to small to grab, waiting on new grappel 2.3" OD, and short grap overshot. MU short grab over shot w/ 3 1/8" grappels could not get over tool joint pulled off over shot, MU spear w/ 2.26" OD grappels stabbed in joint picked up and layed down fish, screwed back into work string with power swivel start circulating 10bbl 100 vis sweep back to surface before CIH. Tag Plug #14 w/ jt 333 (10618'/kb). Drill plug in 4 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 450#, Circulating Pressure 6200#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #15. Tag Plug #15 w/ jt 338 (10788'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 550#, Circulating Pressure 6400#, very light sand, TIH to Plug #16. Tag Plug #16 w/ jt 344 (10954'/kb). Drill plug in 4 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 350#, Circulating Pressure 6200#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #17. Tag Plug #17 w/ jt 348 (11116'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 400#, Circulating Pressure 6450#, pump 10bbl 100 vis sweep, very light sand, Circulat for 20 min, TIH to Plug #18. Tag Plug #18 w/ jt 355 (11280'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 400#, Circulating Pressure 6450#, very light sand, TIH to Plug #19. Tag Plug #19 w/ jt 360 (11452'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 400#, Circulating Pressure 6500#, very light sand, TIH to Plug #20. Tag Plug #20 w/ jt 365 (11618'/kb). Drill plug in 6 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 400#, Circulating Pressure 6700#, pump 5bbl 100 vis sweep, very light sand, TIH to Plug #21. Tag Plug #21 w/ jt 371 (11774'/kb). Drill plug in 4 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 400#, Circulating Pressure 6600#, very light sand, TIH to Plug #22. Tag Plug #22 w/ jt 376 (11946'/kb). Drill plug in 6 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 500#, Circulating Pressure 6600#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #23. Tag Plug #23 w/ jt 381 (12116'/kb). Drill plug in 4 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 350#, Circulating Pressure 6200#, very light sand, TIH to Plug #24. Tag Plug #24 w/ jt 387 (12282'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 510#, Circulating Pressure 6400#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #25. Tag Plug #25 w/ jt 392 (12448'/kb). Drill plug in 4 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 500#, Circulating Pressure 6100#, very light sand, TIH to Plug #26. Tag Plug #26 w/ jt 397 (12614'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 510#, Circulating Pressure 6000#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #27. Tag Plug #27 w/ jt 403 (12780'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 500#, Circulating Pressure 5900#, very light sand, TIH to Plug #28. Tag Plug #28 w/ jt 408 (12946'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 500#, Circulating Pressure 6300#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #29. Tag Plug #29 w/ jt 413 (13090'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 500#, Circulating Pressure 6000#, very light sand, TIH to Plug #30. Tag Plug #30 w/ jt 417 (13265'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 500#, Circulating Pressure 6100#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #31. Tag Plug #31 w/ jt 424 (13265'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 500#, Circulating Pressure 6400#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #32. Tag Plug #32 w/ jt 429 (13442'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 520#, Circulating Pressure 6700#, pumped 5bbl 100 vis sweep, very light sand, TIH to Plug #33. Tag Plug #33 w/ jt 435 (13740'/kb). Drill plug in 5 mins @ 6.5 BPM in &amp; 6.5 BPM out FCP 540#, Circulating Pressure 6100#, pumped 20/10/20 100 vis sweep, very light sand, TIH 5 jts to bottom @ 13,740. Circulate 20/10/20 high vis sweep to surface. Shut in well SICP @ 800, TOH with Lynx power swivle 5 jts, pulled 70 klbs off bottom. Rig down Lynx power swivle, prepare rig floor for TOH. TOH with TTS BHA and 2 7/8 PH-6 drill pipe, TOH 185 jts to bottom of curve pump 20 bbl high vis sweep. Circulate 20 bbl sweep to surface. TOH with TTS BHA and 2 7/8 PH-6 drill pipe 365 jts, install TIW valve land drill string and TIW valve on pipe rams. Rig up 10' 5k spool, prepare rig for snubbing unit. MIRU Great White snubbing unit.</p>
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## Daily Summary

Activity Date:	5/4/2014	Days on Compl:	28	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	<p>Talked about well control and good communications. MIRU Great White snubbing unit. Wh 800psi, equalize pressure over BOP, begin snubbing out 2 7/8 PH-6 8.7# work string and TTS BHA. Snubbed OOH w/70 joints of 2 7/8 PH-6 8.7# work string and, TTS BHA, closed WH bled pressure off to open top tank, well is secure, RDMO Great White snubbing unit. RDMO to 09-1825, CC Forbes work over rig, Fesco flowback equipment, Lynx reverse pump iron and, Nabors laydown machine, ND BOP's and annular bag, NU blind flange, Well shut in 800# SICP.</p>				

## Daily Summary

Activity Date:	5/5/2014	Days on Compl:	29	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:					

## Daily Summary

Activity Date:	5/6/2014	Days on Compl:	30	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:					



Enduring Resources II, LLC  
511 16th St - Suite 700  
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(303) 573-1222

# Wellwork Chronological Regulatory Report

Daily Summary																																																											
Activity Date:	5/7/2014	Days on Compl:	31	TD (TVD): 0'																																																							
Rig Company:		Rig Name:		TD (MD): 0'																																																							
24 Hour Summary:	Discussed safety issues. Pinchpoints, Trip hazards, Ranch rules, House keeping 800 SICP. Rig up 4.640 O.D. gauge ring / junk basket. RIH tie into short joint @ 7159 and FC @ 7398' . Continue to 7600,. Log back to verify tie in. POOH. RIH with Arrow wireline set packer w/ 2'pup, 1.875 nipple,2'pup, wireline re-entry guide, 6 pin pump out plug (1950 lb. ) set at 7550'. Tie in to short joint at 7159 and FC @ 7398'. Packer weight was 1100 lb before set, 948 lb. after set. Used baker slowburn power charge to slow setting time. POOH. Inspect tool for good shear from packer. Rig down Casedhole Solutions, Install blank flange, Shut all valves, Secure well.																																																										
Daily Summary																																																											
Activity Date:	5/8/2014	Days on Compl:	32	TD (TVD): 0'																																																							
Rig Company:		Rig Name:		TD (MD): 0'																																																							
24 Hour Summary:	Discussed emergency procedures, pinchpoints, trip hazards, ranch rules, house keeping. Rig up CC Forbes, Superior, Lynx. MU BOP's to Frac tree. Torque up to API specs. MU ON/Off tool, 1-10' pup, SSL, 1-10' pup, PX Plug, 1 JT, GLV1, ran total of 60 jts Shut well in with TIW (closed). Closed pipe rams on 2 3/8 4.7 lb. tubing. O psi on well.																																																										
Daily Summary																																																											
Activity Date:	5/9/2014	Days on Compl:	33	TD (TVD): 0'																																																							
Rig Company:		Rig Name:		TD (MD): 0'																																																							
24 Hour Summary:	Gas Lift Insatllation <table><thead><tr><th></th><th>Depth</th><th>PSC</th><th>PSO</th><th>Orifice</th></tr></thead><tbody><tr><td>1.</td><td>7476.86</td><td></td><td></td><td>16</td></tr><tr><td>2.</td><td>6981.49</td><td>914</td><td>895</td><td>12</td></tr><tr><td>3.</td><td>6485.97</td><td>940</td><td>920</td><td>12</td></tr><tr><td>4.</td><td>5990.47</td><td>964</td><td>945</td><td>12</td></tr><tr><td>5.</td><td>5494.89</td><td>990</td><td>970</td><td>12</td></tr><tr><td>6.</td><td>4999.34</td><td>1015</td><td>995</td><td>12</td></tr><tr><td>7.</td><td>4504.08</td><td>1040</td><td>1020</td><td>12</td></tr><tr><td>8.</td><td>4008.67</td><td>xx</td><td>xx</td><td>16</td></tr><tr><td>9.</td><td>3285.28</td><td>1100</td><td>1070</td><td>12</td></tr><tr><td>10.</td><td>1877.45</td><td>1200</td><td>1135</td><td>12</td></tr></tbody></table> EOT= 7559.21'  Discussed pinchpoints, overhead loads, emergency procedures, ranch rules, house keeping. Continue tripping in hole with 2 3/8 tubing. Tag Packer , space out with 10' pup, 10' pup, 4' pup. Land with 12 points compression on packer. Placing ON/Off tool at (7540), 10' Sub (7530), SL /SLEV ( 7527), 10' Sub (7517), 1 Jt, GLV1 ( 7476), 15 jts, GLV2 (6981), 15 jts, GLV3 (6485), 15jts, GLV4 (5990) 15 jts, GLV5 ( 5494) 15 jts, GLV6 (4999) 15jts, GLV7 (4504) 15 jts, GLV8 (4008) 22 jts, GLV9 ( 3285) 43 jts, GLV10 (1877) 55 jts, 4'pup, 10' pup, 10'pup, 1 jt, hanger. Rig down CC Forbes, HB Packer, Superior, Lynx. Rig up 7 1/16 tree flange, with new BX 156 ring gasket. Torque up bolts to API specs. Install tree. Rig up Lynx pump to annlus and prepare to pump out plug. Start pump at .5 bpm 300 psi. Pins sheared at 2800 pis. Well pressure fell back to 900 psi. Rig down Lynx Shut well in. Prepare for flowback					Depth	PSC	PSO	Orifice	1.	7476.86			16	2.	6981.49	914	895	12	3.	6485.97	940	920	12	4.	5990.47	964	945	12	5.	5494.89	990	970	12	6.	4999.34	1015	995	12	7.	4504.08	1040	1020	12	8.	4008.67	xx	xx	16	9.	3285.28	1100	1070	12	10.	1877.45	1200	1135	12
	Depth	PSC	PSO	Orifice																																																							
1.	7476.86			16																																																							
2.	6981.49	914	895	12																																																							
3.	6485.97	940	920	12																																																							
4.	5990.47	964	945	12																																																							
5.	5494.89	990	970	12																																																							
6.	4999.34	1015	995	12																																																							
7.	4504.08	1040	1020	12																																																							
8.	4008.67	xx	xx	16																																																							
9.	3285.28	1100	1070	12																																																							
10.	1877.45	1200	1135	12																																																							
Daily Summary																																																											
Activity Date:	5/10/2014	Days on Compl:	34	TD (TVD): 0'																																																							
Rig Company:		Rig Name:		TD (MD): 0'																																																							
24 Hour Summary:	Well Shut In.  0600 - 1800 Move tanks and wait on more. Rig up Flowback  1800 - 0600 Rig up Flowback																																																										
Daily Summary																																																											
Activity Date:	5/11/2014	Days on Compl:	35	TD (TVD): 0'																																																							



Enduring Resources II, LLC  
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# Wellwork Chronological Regulatory Report

Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	12:00 - Choke 12/64" Adj SITP:0 PSIG ,FCP 560 PSIG ,WHT 82F ,Gas Rate 0. MCF/D ,Fluid Rate 14 Bbls (Water 14 Bbls ,Oil 0 Bbls) ,API ,Salinity 53,000. PPM, Sand = Light sand: .5 cup/hr.				
	18:00 - Choke 12/64" Adj SITP:0 PSIG ,FCP 130 PSIG ,WHT 90F ,Gas Rate 0. MCF/D ,Fluid Rate 26 Bbls/H (Water 26 Bbls ,Oil 0 Bbls) ,API ,Salinity. 52,500 PPM, Sand = Light sand: .5 cup/hr.				
	00:00 - Choke 12/64" Adj SITP:0 PSIG ,FCP 170 PSIG ,WHT 85F ,Gas Rate 0. MCF/D ,Fluid Rate 23 Bbls/H (Water 23 Bbls ,Oil 0 Bbls) ,API ,Salinity. 60,000 PPM, Sand = Light sand: .5 cup/hr.				
	06:00 - Choke 12/64" Adj SITP:0 PSIG ,FCP 150 PSIG ,WHT 87F ,Gas Rate 0. MCF/D ,Fluid Rate 24 Bbls/H (Water 24 Bbls ,Oil 0 Bbls) ,API ,Salinity. 60,000 PPM, Sand = Light sand: .5 cup/hr.				
	24 Hr Gas – 0 MCF				
	24 Hour Oil – 0 Bbls				
	24 Hr Water – 441 Bbls				
	Total Gas - 0 MCF				
	Total Oil – 0 Bbls				
	Total Water – 9848 Bbls				
Total water left to recover: 185673 Bbls					
Daily Summary					
Activity Date:	5/12/2014		Days on Compl:	36	TD (TVD): 0'
Rig Company:			Rig Name:		TD (MD): 0'
24 Hour Summary:	12:00 - Choke 13/64" Adj SITP:0 PSIG ,FCP 140 PSIG ,WHT 93F ,Gas Rate 0. MCF/D ,Fluid Rate 23 Bbls (Water 23 Bbls ,Oil 0 Bbls) ,API ,Salinity 61,000. PPM, Sand = Light sand: .5 cup/hr.				
	18:00 - Choke 13/64" Adj SITP:0 PSIG ,FCP 190 PSIG ,WHT 103F ,Gas Rate 0. MCF/D ,Fluid Rate 31 Bbls (Water 31 Bbls ,Oil 0 Bbls) ,API ,Salinity 61,000. PPM, Sand = Trace.				
	00:00 - Choke 13/64" Adj SITP:0 PSIG ,FCP 180 PSIG ,WHT 95F ,Gas Rate 0. MCF/D ,Fluid Rate 25 Bbls (Water 25 Bbls ,Oil 0 Bbls) ,API ,Salinity 61,000. PPM, Sand = Trace.				
	06:00 - Choke 13/64" Adj SITP:0 PSIG ,FCP 180 PSIG ,WHT 95F ,Gas Rate 0 MCF/D ,Fluid Rate 24 Bbls (Water 24 Bbls ,Oil 0 Bbls) ,API ,Salinity 61,000 PPM, Sand = Trace.				
	24 Hr Gas - 0 MCF				
	24 Hour Oil - 0 Bbls				
	24 Hr Water - 633 Bbls				
	Total Gas - 0 MCF				
	Total Oil - 0 Bbls				
	Total Water - 10481 Bbls				
Total water left to recover: 185040 Bbls					