



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

# Wellwork Chronological Regulatory Report

## Well Name: UNIVERSITY 49 #0808H

Field:	Lin (Wolfcamp)	S/T/R:	/ /	County, State:	
Location Desc:					
Operator:	Enduring Resources, LLC	Project Type:	Completion	District:	Southern
Project AFE:	DV02151	AFE's Associated:	/ / /	API:	
Supervisor:		Phone:			
Production Cur/Exp   Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

### Daily Summary

Activity Date:	3/2/2014	Days on Compl:	121	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

#### 24 Hour Summary:

Bulldog flowback on location spotting choke manifold and flowback iron. MIRU Red Zone CTU 2 3/8", IH, 10k BOPs. MU CT external connector, pull test 35k x2 (good) Fill CT with fresh water. MU TTS drift run BHA. NU lubricator pressure test 7000psi (good). Open WH (SICP 270psi). RIH CT to 1766' top of CSG patch for depth correlation. Tag top of CSG patch at 1830' CMT. PU CT RIH tag patch at 1830', RED FLAG CT. POOH CT to surface "CT at surface close WH 17 turns, bleed off. MU new TTS BHA to drift 4" straight mill through CSG patch" Pressure test to 4000psi, bleed down to 500psi. Open master 17 turns. RIH CT. RIH to casing patch, tag casing patch while trying to enter 3 times. PU CT, bring pumps online at 2bpm, RIH into casing patch at 20ft/min. Stop 100' in patch. POOH to surface pumping min rate to keep well full. Tag surface close master 17 turns and bleed off. "Change mill to 4.01" Offset Mill. Pressure test to 4000psi. Bleed down to 500psi, open master 17 turns. RIH CT.

Tag casing patch at 1830' PU CT. Retag. PU, bring pumps online at 1.5bpm. RIH into casing patch, shutdown pumps at 1836'. Continue RIH. Tag at 2018'. PU and RIH past tag point. Tag at 2028'. PUP and RIH past tag point. RIH. Weights fluctuating at 2900'. Continue RIH to 3100'. POOH CT back to surface stopping to refresh flag at 1830'. No weight seen as CT entered casing patch from below. Tag surface. Close master 17 turns. Bleed off.

"Break off milling BHA. Install Cementing BHA:

CT grapple connector(w/o dcw) - 1.5'  
3-1/8" beveled (1.5" Bore) cementing nozzle - 0.4'

Pressure test to 4000psi. Bleed off, attempt to RIH. Tag in BOPs, work down to Frac sleeve. Tagging. Work pumps up/down. Reattempt. Unable to pass sleeve. POOH above master, close 17 turns. Bleed off. Break of Injector and reverse bend CT."

Pressure test to 4000psi. Open Master 17 turns. Reattempt RIH. Tag on frac sleeve. Reattempt tag with varying pump rates (up to 5bpm), flowing well to open top. Cripple pump, reattempt. No success. Break off to rebend CT.

Pressure test to 4000psi. Bleed off. Attempt to RIH with straightened pipe. Unable to pass sleeve. Pick up and re-bend CT. Rebend CT. Pressure Test CT. Reattempt RIH. Unable to pass sleeve. Close master, bleed off. Run out CT.

Straighten CT remove CT connector. Cut Mule shoe on CT. Total CT cut since flag 33'. Pressure Test at 4000psi. Bleed off wellhead to 500psi. Open wellhead and RIH CT. Passed through sleeve unobstructed. RIH CT to flag. Stop at flag at 1782' (minus BHA+cut pipe = 48' which puts flag at 1830'). RIH to 2835'. Stop CT, wait on cement operation rigup.

### Daily Summary

Activity Date:	3/3/2014	Days on Compl:	122	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

#### 24 Hour Summary:

Cement operation rig up of squeeze manifold, reverse line squeeze manifold, batch mixer and cement pumper. Pressure test lines to 5000psi. RIH CT to 2910' based on log depths + CT zero (18' above casing flange).to put CT exit just below leak. Cement crew pre-hydrate chemicals using fresh water. Pre-job procedure discussion and safety meeting, discussing ERP and job assignments. Begin mixing cement. (85 sacks)

Begin pumping 20bbls lead of fresh water as 1.5BPM @ Pcirc 1150psi, WHP 720psi. Swap to 14.8ppg class C 19bbls. Chase cmt with fresh water. Squeeze 15bbls of cmt into leak WHP 1410psi, shut down 10mins. Watch fall-off. Rollover pumps squeeze cmt into leak WHP 1130psi, shut down 15mins, watch fall-off, build filter cake. Rollover pump squeeze cmt into leak WHP 900psi, watch fall-off, build filter cake, Rollover pump squeeze cmt into leak WHP 900psi, watch fall-off, cement holding, fall-off minimal. PU CT 20', weight good, RIH CT 10'. Rollover pump squeeze cmt into leak WHP 900psi, watch fall-off, cement holding, no fall-off.

Swap lines on cementing squeeze manifold to reverse out. Begin reversing out down Ann/up CT at 1BPM fresh water (70bbls), maintaining 950psi choke pressure on the return line. POOH CT at 40 fpm.

CT at surface, pressure test cement and csg with Trican pump to 1023psi. Hold for 15mins. Watch fall-off. No fall-off observed, test good. Bleed down to 500psi, shut well in. Bleed off all surface lines.

RDMO Trican cement equipment and Red Zone CTU cementing reel.

SDFN - WOC.

### Daily Summary

Activity Date:	3/4/2014	Days on Compl:	123	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

#### 24 Hour Summary:

Prep location for drillout ops. Spot large 500bbls OT with gas buster, spot 500bbls frac tanks (x3) for drillout water. Haul 100bbls from OT to disposal. CT drill string being swapped in Monahans. CTU on location at 15:00. Stab 2 3/8" CT into IH, NU lubricators. WOC.

MU TTS Connector, Pull test to 35k and 40k (good) Begin filling CT with fresh water.



# Wellwork Chronological Regulatory Report

## Daily Summary

Activity Date:	3/5/2014	Days on Compl:	124	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:**

Make up TTS BHA  
External Slip Type Connector OD-3.25" Length-1.80'  
Dual BPV OD- 3.13" Length-1.84'  
Hydra Set Jar OD- 3.13" Length- 5.97'  
Hydraulic Disconnect OD-3.13" Length- 2.41'  
XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06'  
Titan Supermax Motor OD-3.13" Length- 12.00'  
Offset Concave Mill OD- 4.00" Length- 1.20'  
Total BHA length- 27.28'  
Dirfted BHA with a 3/4" ball, witnessed ball drop. ( Good ), Function test Motor at 4BPM at 5000 PSI ( Good )  
Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 7000 PSI ( Good )  
Open wellhead ( 17 Turns ) SICIP 440 PSI, perform Cement integrity test at 1440 PSI for 15 mins saw a 40 PSI pressure drop.  
Bleed down wellhead to 400 PSI and RIH with CT to TOC  
Tag TOC at 2881' PU CT weight 11,000#, RIH CT tag TOC 2881'. PU 10', set rate 1:1 returns at 3.75 BPM. Drillout cement WHP 300psi, Circ Pressure 3900psi. Send 10bbls 100vis sweep. RIH CT to 3000'. PU CT to bottom of CSG patch 2854', no obstruction while passing cemented leak. RIH CT to kill plug at 6870'  
CT at 6700', Close returns pressure test CSG to 1465psi for 10mins (test good) 40psi falloff. RIH CT to kill plug.  
Tag kill plug @ 6866' CTM, Drill time 47 min, pump 10 bbl 100 vis sweep. Circ 5000 psi WH 1000 psi. Return rates 1:1 at 4.5 BPM, RIH to plug #1.  
Lower BPM to 4.00, WHP 575psi, Fighting sand while RIH to plug #1, sending 10bbls sweeps. PU CT 2000' weight 44,000#. CT at 11500' RIH to plug #1. Washing sand, begin adding POP 0.25gal/10bbls.  
CT at 13640', PU CT (20') weight 36,000#, RIH CT to plug #1  
Tag plug #1 @ 13739' CTM, Drill time 180 min, pump 10 bbl 100 vis sweep. Circ 4600 psi WH 400 psi. Return rates 1:1 at 4.0 BPM, RIH to plug #2. PU CT (200') weight 37,000#  
Tag plug #2 @ 13930' CTM, Drill time 70 min, pump 10 bbl 100 vis sweep. Circ 4700 psi WH 400 psi. Return rates 1:1 at 4.0 BPM, RIH to plug #3.  
Tag plug #3 @ 14131.5' CTM, Drill time 50 min, pump 10 bbl 100 vis sweep. Circ 5100 psi WH 500 psi. Return rates 1:1 at 4.0 BPM, RIH to 14240, attempted to short trip & pumped vis sweeps, no success.  
POOH to KOP, sent higher Vis Sweep, attempted wiper trip pulled tight @ 13350ft, 11620ft, cont with sweeps. PU CT (100') weight 52,000# off bottom. Large chunks of plugs coming back on trip, not pulling with regular weight. Debris in KOP

## Daily Summary

Activity Date:	3/6/2014	Days on Compl:	125	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:**

Tagged plug # 4 at 14289' Circ pressure 5200 psi at 4.5 BPM, wellhead at 600 psi, drill time was 40 min, sent 160 vis sweep. Light sand. RIH to plug # 5.  
  
Tag plug #5 @ 14502' CTM, Drill time 35 min, pump 10 bbl 160 vis sweep, continue sweeps every 100bbl capacity. Light sand, Circ 5200 psi WH 450 psi. Return rates 1:1 at 4.5 BPM, RIH to plug #6.  
  
Fighting friction, PU coil with 38000# up pull, RIH CT, Stacked out, Short tripped to 14492'. Sent a 10/10/10 160 vis sweep and POH to 13990'.  
  
RIH to 14300' stacked out again, fighting large magnum plug parts in hole, sent another 10/10/10, 160 vis sweep. POOH CT, Pull heavy at 13499' - 56,000#. RIH CT, stack out, lose running weight, move CT down slowly until weight returns.  
  
Started N2 at 600 with a fluid rate of 4 BPM, circ press 4800 psi, WHP 480 psi, With running weight back and good RIH speed, stop CT and POOH to 10500'.  
  
CT at 10500', RIH with CT - cut N2 @ 14500' continued down to plug # 6.  
  
Tag @ 14515 CTM, pump 10 bbl 160 vis sweep, continue sweeps every 100bbl capacity. Light sand, Circ 5200 psi WH 450 psi. Return rates 1:1 at 4.5 BPM, Little to no progress.  
  
Started to get a differential between Coil WHP and flowback WHP, picked CT up off bottom 10', swapped to the 2" flowback line and shut in the 3" line, purged 3" line and found large plug pieces in the wellhead flow cross, lined back up to the 3" side and resumed to flow through 3" line." RIH to 14520, noticed WH pressure started to fall.  
  
Making little to no progress moving forward.  
Trip out to 13300, PU coil with 38000#, bridged off up hole as WHP fall to 270. Started N2 at 600 with a fluid rate of 4 BPM, circ press 4800 psi, WHP moved to 700 psi, With running weight back and good RIH speed. Tight at 14498 till 14525 then weight came back, cont to RIH @ 40ft/min, Tag @ 14690  
  
Tag plug #7 @ 14690', made no progress on drilling, continue sweeps every 100bbl capacity, Circ 4200 psi WH 700 psi with N2. Return rates 1:1 at 4 BPM.  
  
Attempted a 1000' wiper & get back on bottom, N2 turned off to insure hole is lubed to re-enter, no success. Attempted to get back down to TD, no success made the decision to pull into verticle 2am, tight @13652' & attempt again, Noticed a differential between Coil WHP and flowback WHP, swapped to the 2" flowback line and shut in the 3" line, purged 3" line and found large plug pieces in the wellhead flow cross, lined back up to the 3" side and resumed to flow through 3" line.

## Daily Summary

Activity Date:	3/7/2014	Days on Compl:	126	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'



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## 24 Hour Summary:

RIH with CT tagged @ 14662' Circ 3900 psi WH 542 @ 4.00 bbl/min,

Changed pump rate to 4.75 bl/min, Circ 4840 psi, WH 324 psi, CT @ 14667, sent a 10/10/10 sweep with pipe on pipe.

Tried to set 15 down on bottom and very slow drill off, pump rate to 4.75 bl/min, Circ 4940 psi, WH 328 psi. No progress.

Dropped fluid rate to 4.00 bbl/min and started N2 @ 600  
CT @ 14670 tried to PU 100' and set back down, no success, Start to POOH, CT weight 37000#, Circ 3650 psi, WH 320 psi, started to pull a little heavy @ 12124', CT Weight 39000#.

13:45 Shut N2 @ 6000' Pumped, @ 3000' slow pump rate to 1/2 bbl/min going pass CMT patch, No indication of casing patch as we cont out of hole,

CT on surface @15:15 close WH and bleed off pressure. SICP 460 psi.

Laid out BHA due to severe wear on the mill. Broke 2" side of flow cross on WH and found debris, also removed the 3" side of flow cross and found a lot of debris in the WH."

Make up TTS BHA  
External Slip Type Connector OD-3.25" Length-1.80'  
Dual BPV OD- 3.13" Length-1.85'  
Hydra Set Jar OD- 3.13" Length- 5.97'  
Hydraulic Disconnect OD-3.13" Length- 2.40'  
AV Sub OD 3.13" Length- 0.84'  
XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06'  
Titan Supermax Motor OD-3.13" Length- 12.00'  
Offset Concave Mill OD- 4.00" Length- 1.20'  
Total BHA length- 28.12'  
Dirfted BHA with a 3/4" ball, witnessed ball drop. ( Good ), Function test Motor at 3BPM at 2800 PSI ( Good Test )  
Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 7000 PSI ( Good Test )

Open wellhead ( 17 Turns ) SICP 800 PSI,

RIH with CT plug #8 @ 14832' CTM, Drill time 120 min, pump 10 bbl 100 vis sweep. Circ 5300 psi WH 630 psi. Return rates 1:1 at 4.5 BPM, RIH to plug #9

Tag plug #9 @ 15137' CTM, Drill time 180 min, pump 10 bbl 100 vis sweep. Circ 6600 psi WH 620 psi. Return rates 1:1 at 5 BPM, RIH to plug #10. Made it to 15142' and lost forward advancement.

Start to trip to lateral, CT weight 43,000# off bottom, Circ 5800 psi, WH 610 psi, pump 10bbl 100vis. Return rates 1:1 at 4 BPM. Pull up to 6950. Weight normal RIH to tag plug #10,

CT @ 7000' @ 0600 circ press 5200 psi WH 520 psi @ 5 bbl/min.

## Daily Summary

Activity Date:	3/8/2014	Days on Compl:	127	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

## 24 Hour Summary:

Cont RIH with CT, RIH to 8500' pick back up to 6700' to clean KOP then run back to bottom, Tagged @ 15044' Circ 5200 psi WH 477 psi @ 5 bbl/min.

Drill ahead on parts from plug #8, broke through debris and cont on to plug #9 Circ 5570 psi WH 431 psi @ 5 bbl/min

Tagged plug #9 @ 15310' circ 5500psi, WH 490psi @ 5 bbl/min

Picked up 20', 39000lbs up pull and ran back down to check, no problem, ran back down to 15311' Circ 5500 psi WH 440 psi @ 5 bbl/min, swapped flow to the 2" side and shut in 3" side and broke apart to check and found a lot of debris stuck in the flow cross.

@ 15314' Picked up 40', 39000lbs up pull, sent a 10/10/10 sweep ran back down and drill through plug 9 Circ 5700 psi WH 440 psi @ 5 bbl/min 180 min drill time.

Swapped to 2" side of WH and checked 3" side, it was full of debris.

continue RIH on to plug #10, tag @ 15525' CTM, Drill time 180 min, pump 10 bbl 100 vis sweep. Circ 6600 psi WH 580 psi. Return rates 1:1 at 5 BPM, making little headway do to debris in well.

Trip out to verticle 6950' pulled tight in some areas this slowed trip time, clean tree and RIH to tag plug #10 and finish drilling, changed out water on location during trip. Pumped 10bbl 100vis sweep. Circ 5600psi WH 400psi

Tag plug #10 @ 15527' CTM, Drill time 105 min, pump 10 bbl 100 vis sweep. Circ 5300 psi WH 380 psi. Return rates 1:1 at 5 BPM, Made no headway.

CT @ 15545, POOH, to do a bit change & inspect the BHA.

## Daily Summary

Activity Date:	3/9/2014	Days on Compl:	128	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'



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## 24 Hour Summary:

Cont to POOH to inspect BHA. CT was @ 2826', Lost wellhead pressure, Stopped POOH and started to RIH to 2900' lost returns at surface, cont RIH to 2920' regained returns, sent a 10/10/10 sweep.  
Regained wellhead pressure to 55 psi and climbing, Circ 6600 psi, WH 55 psi @ 5 bbl/min, start to cool down N2

Came on with N2 @ 600 and Fluid @ 4 bbl/min Circ 5400 psi WH 90 psi let WH build to 460psi and Circ was 5300 psi, good returns @ surface, POOH

Tagged @ 2821 CTM, sent a 10 bbl sweep, RIH, returns are 5 bbl/min in and 2.8 bbl/min out @ circ 5478 psi and WH 441.

CT @ 3842 POOH Circ 5500 psi WH 500 psi 5bbl/min in and 3.5 bbl/min out. Cont to POOH, @ 2944' dropped fluid rate to 0.5bbl/min and N2 @ 600 cont POOH tagged @ 2825'

RIH to 4346' Circ 4900 WH 621 Fluid @ 4 bbl/min N2 @ 1000, returns back to 1 in 1 out.

POOH, dropped rate to .5 on fluid and 600 on N2 @ 2890 Circ 256 psi WH 356 psi , @ 2821 CTM tagged, pulled 8 over no movement, Run back in the hole to 4826' , pick rate back up to 4.5 on fluid and 1000 on N2

POOH to 2817', tagged, pulled 10 over RIH 500' Shut down N2 RIH to 3323'

POOH @ 2840' shut down all pumps and cont to POOH, tagged @ 2816.94'

swapped over to bullhead down the backside of the coil @ 3 bbl/min WH 766 psi RIH to 2952'

POOH tagged @ 2815.67 WH 797 psi pump rate 3 bbl/min, RIH to 2846' Sent a 15 gallon POP slug down the backside of the coil.

Waited for POP slug to get to casing patch and started to POOH WH 850 psi tagged @ 2790' pulled 10 over and started to slide up the hole, @ 2456' regained all our weight and started to pull free, continued out of the hole.

At surface, shut in the well and bled off all surface lines and removed CT lubricator from wellhead. SICP 1020 psi, lay out drilling BHA and cut 130' of CT, as well as do CT maintenance.

Make up TTS Ventri tools.  
External Slip Type Connector OD-3.25" Length-1.80'  
Dual BPV OD- 3.13" Length-1.84'  
Hydra Set Jar OD- 3.13" Length- 5.97'  
Hydraulic Disconnect OD-3.13" Length- 2.41'  
XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06'  
Titan Supermax Motor OD-3.13" Length- 12.00'  
Rotary Sub OD- 3.13" Length- 0.93'  
Venturi Jet Junk Basket OD-2.88" Length-3.10'  
Wash Pipe wavy bottom shoe OD- 3.63" Length-5.91'  
Total BHA length- 36.02'

Function test Motor at 3BPM at 2800 PSI ( Good )

Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 7000 PSI ( Good )

Open wellhead (17 Turns) SICP 800 PSI

RIH to 15590' pushed junk into basket, trip to 7700' then back to bottom 15715' to insure junk is in basket. Circ 5100 WH 600 pump rate 4 bbl/min, returns back to 1 in 1 out.

## Daily Summary

Activity Date:	3/10/2014	Days on Compl:	129	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'



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# Wellwork Chronological Regulatory Report

<b>24 Hour Summary:</b>	CT @ 10400' Cont to POOH with Venturie tools, Circ 4600 psi WH 460 psi @ 4 bbl/min, CT pulled a little heavy @ 7227', weight came back to normal @ 6700'.
	CT @ surface, close in WH and bleed all surface lines to zero and remove CT lubricator and lower TTS junk basket. Basket was full of Sand and plug part, there was sand plugged to the bottom of the rotary sub. Cleaned all the BHA and prepared to re-run the Venturie tool.
	Make up of TTS Ventri tools. External Slip Type Connector OD-3.25" Length-1.80' Dual BPV OD- 3.13" Length-1.84' Hydra Set Jar OD- 3.13" Length- 5.97' Hydraulic Disconnect OD-3.13" Length- 2.41' XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06' Titan Supermax Motor OD-3.13" Length- 12.00' Rotary Sub OD- 3.13" Length- 0.93' Venturi Jet Junk Basket OD-2.88" Length-3.10' Wash Pipe wavy bottom shoe OD- 3.63" Length-5.91' Total BHA length- 36.02'
	Function test TTS tools @ surface ( good test ) and re-install lubricator and pressure test surface lines to 7000 psi ( good test ) bleed off surface line to SICP of 420 psi and open WH ( 17 turns ) and RIH with CT.
	RIH with CT to Bottom, tagged @ 15734 CTM Picked up 25', up weight 38000#, Washed back down to tag again @ 15734 CMT, sent a 10bbl sweep.
	POOH from 15734' 37000# up weight, pulled tight at 7700', lost WP pressure @ 8000', pumped 10bbl sweep, regained circulation and found lots of steel wool in junk catcher. Cont out of hole Circ 4800psi, WH 450psi
	CT @ surface, close in WH and bleed all surface lines to zero and remove CT lubricator and lower TTS junk basket. Basket was broken off below the Venturi tool. Fish in the hole 5.91ft
	Wait on TTS Mill bit from Midland
	Make up TTS Spear bit BHA, to retrieve Fish. External Slip Type Connector OD-3.25" Length-1.80' Dual BPV OD- 3.13" Length-1.84' Hydra Set Jar OD- 3.13" Length- 5.97' Hydraulic Disconnect OD-3.13" Length- 2.41' XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06' Titan Supermax Motor OD-3.13" Length- 12.00' Rotary Sub OD- 3.13" Length- 0.93' Spear Bit OD-3.3" Length- 2.51" Total BHA length- 29.52'
	Function test Motor at 1BPM at 800 PSI ( Good )
	Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 7000 PSI (Good), bleed off to 500psi & Open wellhead (17 Turns) SICP 500 PSI
	RIH wash to top of Fish, Circ 780 WH 620 Fluid@ 0.5 bbl/min, returns back to 1 in 1 out.

## Daily Summary

<b>Activity Date:</b>	3/11/2014	<b>Days on Compl:</b>	130	<b>TD (TVD):</b>	0'
<b>Rig Company:</b>		<b>Rig Name:</b>		<b>TD (MD):</b>	0'

<b>24 Hour Summary:</b>	RIH with CT Fishing BHA, Circ 840psi, WH 617psi, pump rate 1/2bbl/min. coil @ 5140' @ 0600 hrs. Tagged fish @ 15729.17 CTM Pump pressure jumped up to 1050 psi, picked up to 15708.68 and ran back down to tag again, tagged @ 15730.59 CTM while rolling pump @ 1 bbl/min set 7000# on it and had another 200 psi pump pressure gain, shut down pump and POOH, up weight 37000#
	POOH with CT CT @ surface, Closed WH (17 turns) bled off SICP of 620 PSI, and removed lubricator, No fish on the mill, Re-installed Lubricator to run back in the hole to try to retrieve the fish, Pressure tested surface lines and equalize WH to last SICP of 620 psi and open WH (17 turns) and RIH with CT. RIH with CT and Fishing BHA, Circ 840psi, WH 620psi, pump rate 1/2bbl/min. Tagged fish @ 15718 CTM Pump pressure jumped up to 1120 psi, picked up to 15675 and ran back down to tag again, tagged @ 15731 CTM while rolling pump @ .5 bbl/min set 11500# on it and had another 200 psi pump pressure gain, shut down pump and POOH, up weight 37000# POOH with CT. Pulled off bottom 37000# then evened out at 26000#, pulled nice till 12500ft then our weight started to climb, pumped Pipe on Pipe down the back side and our weight came back. Circ 1000 psi down the back side, WH 1000 psi @ 1 bbl/min

## Daily Summary

<b>Activity Date:</b>	3/12/2014	<b>Days on Compl:</b>	131	<b>TD (TVD):</b>	0'
<b>Rig Company:</b>		<b>Rig Name:</b>		<b>TD (MD):</b>	0'



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<b>24 Hour Summary:</b>	<p>Cont to POOH with CT, CT was @ 2150' @ 0600, CT @ surface, Close WH ( 17 turns ) and bled off SICP of 1070 psi, remove Lubricator, found that we had the fish, layed out fishing tools. And cut 90' of pipe. Prepare to make up drilling BHA</p> <p>Make up TTS BHA External Slip Type Connector OD-3.25" Length-1.80' Dual BPV OD- 3.13" Length-1.85' Hydra Set Jar OD- 3.13" Length- 5.97' Hydraulic Disconnect OD-3.13" Length- 2.41' XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06' Titan Supermax Motor OD-3.13" Length- 12.00' Offset Concave Mill OD- 4.00" Length- 1.90' Total BHA length- 27.99'</p> <p>Dirfted BHA with a 3/4" ball, witnessed ball drop.( Good ), Function test Motor at 3BPM at 3000 PSI ( Good Test )</p> <p>Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 7000 PSI ( Good Test), Equalize wellhead to last SICP of 1070 psi and open WH ( 17 turns ) and RIH.</p> <p>RIH with CT, Circ 1500psi, WH 900 psi @ 1 bbl/min returns 1 in 1 out. Tagged Plug #11 @ 15731.24' CTM. Circ 6620 psi, WH 820 psi @ 4.5 bbl/min.</p> <p>Drilled through plug #11 in 40 mins, with setting 2000# down on the coil, run down to tag plug #12. Tagged plug #12 @ 15925 CTM, Circ 6000 psi WH 820 psi @ 4.5 bbl/min.Drilled through plug #12 in 200min Pushed debris down to plug 13.</p> <p>Tagged plug #13 @ 16125' CTM, Circ 6400psi WH 840psi @ 4.5bbl/min. Drilled through plug #13 in 165min</p> <p>Trip out to verticle 6800' to clean hole &amp; RIH to tag plug #14, pumping sweeps every 2nd coil volume, had debris caught in sand trap. New bit is doing a much better job at cutting these plugs up as we have not seen anything caught in the flow T. CP 6600psi WH 880psi</p> <p>Tagged plug #14 @ 16322' CTM, Circ 6800psi WH 900psi @ 4.5bbl/min. Drilled through plug #14 in 180min, Cont down to plug 15.</p>
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## Daily Summary

<b>Activity Date:</b>	3/13/2014	<b>Days on Compl:</b>	132	<b>TD (TVD):</b>	0'
<b>Rig Company:</b>		<b>Rig Name:</b>		<b>TD (MD):</b>	0'

<b>24 Hour Summary:</b>	<p>Cont to drill on plug 15,</p> <p>Swapped sides on the flow cross to the 2"" due to 3"" side being plugged with plug parts, Swapped back to the 3"" side, Circ 5200 psi WH 650 psi @ 4.5bbl/min. Coil @ 16460 CTM.</p> <p>Picked up 100' and tried to run back down due to lack of headway we were making, could not get back to plug 15 so we picked up 2000' to get a run back down.</p> <p>Coil @ 14371 start to Run back down</p> <p>RIH Circ @ 6200 psi WH @ 400 psi @ 4.5 bbl/min, Tagged @ 16491 CTM</p> <p>Drill down to the top of plug 15 @ 16519 CTM, Circ 6400 psi WH 360 psi @ 4.25 bbl/min CT @ 16522, Cool down N2 and get ready to POOH due to no headway being made.</p> <p>POOH Circ @ 6000 psi, WH 260 psi with N2@ 600 and fluid @ 4.25bbl/min, returns 1 in 1 out. "CT @ surface, Close in WH (17 turns) and bled off SICP of 700 psi, remove Lubricator,broke down BHA, and cut 60' of pipe due to pipe wear, and prepare to RIH with Venturi BHA.</p> <p>Make up TTS BHA External Slip Type Connector OD-3.25" Length-1.80' Dual BPV OD- 3.13" Length-1.85' Hydra Set Jar OD- 3.13" Length- 5.97' Hydraulic Disconnect OD-3.13" Length- 2.41' XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06' Ported Sub OD-3.13" Length- 0.84' Titan Supermax Motor OD-3.13" Length- 12.00' Rotary Sub OD- 3.13" Length-0.93' Venturi Jet Junk Basket OD-2.88" Length- 4.32' Rotary Sub OD- 3.13" Length- 1.14' Rotary Sub OD- 3.13" Length- 0.42' Wash Pipe Top Sub OD 3.88" Length-0.62' Wash Pipe wavy bottom shoe OD-3.88" Length-2.91' Total BHA length- 37.27'</p> <p>Function test Motor at 3BPM at 3000 PSI (Good Test)</p> <p>Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 7000 PSI (Good Test), Equalize wellhead to last SICP of 700 psi and open WH (17 turns) and RIH.</p> <p>RIH with CT, CT@ 14650' @ 0600, Circ 3600psi, WH 877 psi @ 3 bbl/min returns 1 in 1 out. Cont RIH to Bottom.</p>
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## Daily Summary

<b>Activity Date:</b>	3/14/2014	<b>Days on Compl:</b>	133	<b>TD (TVD):</b>	0'
<b>Rig Company:</b>		<b>Rig Name:</b>		<b>TD (MD):</b>	0'





Enduring Resources II, LLC

511 16th St - Suite 700

Denver, CO 80202

(303) 573-1222

# Wellwork Chronological Regulatory Report

## 24 Hour Summary:

Continue RIH with Venturie Junk basket, Tagged Bottom @ 16522 CTM @ 0700, Circ 2100 psi WH 640 psi, Rate@ 2 bbl/min, Set down on bottom and Circulated and 100 vis sweep to bottom and POOH.

POOH with Venturi. Circ 2100psi WH 640 psi. Bumped up @ 11:20, SICP 420psi, Close in Master valve ( 17 turns ) and bled off surface lines to Zero, opened lubricator and laid out junk basket, The basket had 2 large pieces of rubber and a few small pieces of metal in it.

Make up TTS BHA  
External Slip Type Connector OD-3.25" Length-1.80'  
Dual BPV OD- 3.13" Length-1.85'  
Hydra Set Jar OD- 3.13" Length- 5.97'  
Hydraulic Disconnect OD-3.13" Length- 2.41'  
XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06'  
Ported Sub OD - 2.88" Length - 0.83'  
Titan Supermax Motor OD-3.13" Length- 12.00'  
Rotary Sub OD- 3.13" Length- 0.92'  
Offset Concave Mill OD- 4.00" Length- 1.22'  
Total BHA length- 29.06'

Function test Motor at 5BPM at 4500 PSI ( Good Test )

Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 5000 PSI (Good Test), Equalize wellhead to last SICP of 420 psi and open WH ( 17 turns ) and RIH.

RIH with CT, Circ 4800 psi, WH 540 psi @ 4.5bb/min, running in at 120'/min.Tagged @ 16547 CTM

Picked back up and ran back down to confirm tag @ 16557 CTM

Started to Drill @ 16557 CTM Circ 6600 psi WH 535 psi @ 5 bbl/min. Drilling/spinning on debris in the well, sweeps, short trips had attempted to gain ground numerous times. Tag debris at 16100ft on short trips. POOH to run junk basket was decided at 22:45pm

POOH, to put on the venturi BHA

Make up TTS Venturi BHA  
External Slip Type Connector OD-3.25" Length-1.80'  
Dual BPV OD- 3.13" Length-1.85'  
Hydra Set Jar OD- 3.13" Length- 5.97'  
Hydraulic Disconnect OD-3.13" Length- 2.41'  
Ported Sub OD-2.88" Length-0.83'  
XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06'  
Titan Supermax Motor OD-3.13" Length- 12.00'  
Rotary Sub OD- 3.13" Length-0.93'  
Venturi Jet Junk Basket OD-2.88" Length- 3.24'  
Wash Pipe Top Sub OD 3.88" Length-0.33'  
Wash Pipe wavy bottom shoe OD-3.88" Length-5.69'  
Total BHA length- 37.11'

Function test Motor at 3BPM at 3000 PSI (Good Test)

Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 7000 PSI (Good Test), Equalize wellhead to last SICP of 600 psi and open WH (17 turns) and RIH.

RIH with Venturi BHA to clean up plug debris in well.

## Daily Summary

Activity Date:	3/15/2014	Days on Compl:	134	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'



Enduring Resources II, LLC  
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# Wellwork Chronological Regulatory Report

24 Hour Summary:	RIH with Venturi junk basket to clean out debris in the wellbore, Tagged @16600.75 CTM washed down ro 16703.28, Circ 4500 psi WH 930 psi @ 3 bbl/min
	CT @ 16703.28, picked up 20' up weight @ 41000#, run back down @ 3 bbl/min to 16708.99' sent a 10 bbl sweep of 100 vis, wait for sweep to come out of coil and picked up 20' while sending another 10bbl sweep, wait for second sweep to exit coil and POOH @ 65'/min.
	POOH with Junk basket, CT @ surface, Bump up CT and close in WH, 17 turns, bled off surface lines to 0 and open Lubricator.
	Laid out Venturi BHA and inspected junk basket, junk basket was full of sand and metal and rubber plug parts, had to use a bar to unplug the junk basket, cleaned BHA and reinstalled Venturi BHA to re-run it.
	Stabbed Lubricator on WH and pressure tested surface lines to 5000 psi, bled of to last SICP of 620 PSI and open WH 17 turns, RIH with CT.
	RIH with CT, Tagged @ 16715' CTM, Circ 3550 psi WH 788 psi, rate 3 bbl/min.
	Sent a 10 bbl 100 vis sweep and picked up 20' waited for sweep to exit coil then ran back down and tagged second time @ 16735.49' CTM send a 10 bbl 160 vis sweep and waited for it to exit coil and POOH.
	POOH, up weight 41000# Circ 3650 psi WH 820 psi rate 3 bbl/min. As we were POOH we noticed a very deep score on the tubing, the decision was made to switch out coil at surface.
	Rigged out Coil, Power pack & pump. Coil rig will be leaving tomorrow @ 7am, the power pack and pump went back to Monahans tonight for service.
	Projected plan for tomorrow 7:00am Coil trailer leaves at early daylight 9:30am-3pm Arrives at Yard & coil put into trailer 6pm or earlier the coil trailer and other loads arrive on location & rig up, tool put on coil. 6pm RIH with new BHA on new coil.
	Note: Troy has outlined a discrepancy in the billing of daily costs of BOP Expendables, it is stated it is a one time charge on well, yet we have been charged every day ( \$1250.00 ). We are expecting a 15k reduction in a daily cost in the near future.
	Wait on coil unit to return to location.

## Daily Summary

Activity Date:	3/16/2014	Days on Compl:	135	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

24 Hour Summary:	Waiting for daylight for coil to move reel to Monahans to swap damaged reel.
	Coil load left location @ 7:30am, to Monahans to swap coil reels and returned just after 7:30pm.
	Rig in Pump Trailer, Control Cab, Reel Trailer and reconnected all iron back up to each load. Put on lubricator, built up BHA, & RIH
	Make up TTS BHA External Slip Type Connector OD-3.25" Length-1.80' Dual BPV OD- 3.13" Length-1.84' Hydra Set Jar OD- 3.13" Length- 5.97' Hydraulic Disconnect OD-3.13" Length- 2.41' Ported Sub OD-3.13" Length-0.83' XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06' Titan Supermax Motor OD-3.13" Length- 12.00' Rotary Sub OD- 4.00" Length- 0.92' Offset Mill Concave OD-4.00" Length-1.22' Total BHA length- 29.05'
	RIH, Tag plug #16 @ 16725' CTM Circ 6800 WH 521, Drill time 180min, Fluid@ 4.5 bbl/min, returns back to 1 in 1 out, light sand. RIH to tag plug #17
	Noted: @ 4500' coil operator stopped RIH to check Goose Neck alignment, he was asked if we needed to come out of the well at the time. He noted no, we can go ahead and so we cont to trip in the hole.
	RIH to tag plug #17, @ 5:15am Rig Manager stopped RIH and picked off bottom, the Goose neck is miss aligned and marking the coil. Bigger man basket has been sourced, and coming to location.
	Waiting on Coil unit to fix injector issues.

## Daily Summary

Activity Date:	3/17/2014	Days on Compl:	136	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'





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# Wellwork Chronological Regulatory Report

## 24 Hour Summary:

Wait on larger manlift to reach injector head so Red Zone can fix their injector CT@ 16467 CTM

CT fixed the injector, the pipe wearing was caused by a miss aligned injector head, Run back down to bottom and cont drilling on plug 17

tagged plug 17 @ 16757.85 CTM, Circ 7050 psi, WH 640, rate 4.5 bbl/min. washed down to 16772'. No real change in pump pressure as well as no evidence of plug parts or sand in the returns, returns still 1 in 1 out @ 4.5 bbl/min.

Started to pull out of hole with CT, and get ready to spot a sweep in the build section of the well as we are pulling through it and rip the flow back wide opened to try to remove any debris caught in the build section of the well. Entered the build section @ 8500' when Sweep exited coil WH was 480 psi, opened the choke wide opened, WH dropped to 200 psi, pumping rate was 4.5bbl/min in and 5.6 bbl/min out, left the choke wide opened as we pulled through the build section. @ 6900' set choke back to 1bbl in 1 bbl out rate. Circ 4800psi, WH 270psi @ 4.5bbl/min

Continue to POOH with coil,

Pulled apart the flow cross & found aluminum and small rubber find any plug parts prior to the sweep coming to surface that was set in the 90. Pulled the flow cross apart after 90 deg sweep arrived at surface and found half of a rubber.

Did not show any weight difference when we pulled into the casing patch(2790'). At 2550' we did pull tight, RIH till weight came off, pulled through the rest of the casing patch and there were no problems, when the bit was exiting the casing patch we did see a flicker of weight, we assume that we pulled something up with us.

Note: Talked to Barry after we had our 90 sweep to surface & we came to the conclusion that the well needed to have a Venturi run.

Coil at surface, bump up and close master valve 17 turns and bleed off all surface lines to zero and broke all surface lines to inspect for plug parts, We found the other half of the rubber from a plug in the flow cross.

Make up TTS Venturi BHA

External Slip Type Connector OD-3.25" Length-1.80'  
Dual BPV OD- 3.13" Length-1.84'  
Hydra Set Jar OD- 3.13" Length- 5.97'  
Hydraulic Disconnect OD-3.13" Length- 2.41'  
Ported Sub OD-3.13" Length-0.83'  
XRV Extended Reach Tool(4BPM) OD- 3.13" Length- 2.06'  
Titan Supermax Motor OD-3.13" Length- 12.00'  
Rotary Sub OD- 3.13" Length-0.93'  
Venturi Jet Junk Basket OD-2.88" Length- 3.18'  
Wash Pipe Top Sub OD-3.88" Length-0.33'  
Wash Pipe wavy bottom shoe OD-3.88" Length-5.69'  
Total BHA length- 37.04'

Function test Motor at 3BPM at 3000 PSI (Good Test)

Make up Lubricator and Stab on wellhead, Pressure test Wellhead and surface lines to 3000 PSI (Good Test), Equalize wellhead to last SICP of 600 psi and open WH (17 turns) and RIH.

RIH with Venturi basket, CP 4200psi, WH 580psi @ 3bbl/min

Tag @ 16795', Circ 4200 psi, WH 580 psi @ 3bbl/min, Washed down to 16810', picked up 100ft, RIH to 16910' with no weight on wash pipe, circ sweep to bit and started to POOH to change BHA

POOH to change BHA, Circ 4200psi, WH 560psi @3bbl/min.

Had Red Zone discount Ticket for 7 hours (\$6500.00) due to NPT.