



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

# Wellwork Chronological Regulatory Report

## Well Name: UNIVERSITY 48 #0713H

Field:	Lin (Wolfcamp)	S/T/R:	/ /	County, State:	
Location Desc:					
Operator:	Enduring Resources, LLC	Project Type:	Completion	District:	Southern
Project AFE:	DV02138	AFE's Associated:	/ / /	API:	
Supervisor:		Phone:			
Production Cur/Exp   Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

### Daily Summary

Activity Date:	2/20/2014	Days on Compl:	183	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Safety Meeting  
Wait on Fishing hand to arrive on location. Fog was very heavy and delayed his arrival.  
Pressure test Bop's to 2000 psi with blanks closed.  
Rig up 4 3/8 overshot with crossver back to 2 7/8 ph06 pipe. 10' 2 7/8 ph06 joint above overshot.  
Tag Fish on joint 197 plus 10' pup. Check weight before latching on to fish. String weight at 46k. Set 20k down on fish with overshot and pull up 20k over string weight. Worked weight back down, putting 40k on fish. Worked pipe with no movement of fish.  
Rig up lynx to pump down annulus. Test lines to 5K. Open up wing valve and begin to fill hole. 6 bbls in at 1.8 bbls/min, began to see increase of pressure. Pressure came up to 3000 psi. Shut pump down, leaked off to 280 psi in 1 minute. Pressure back up to 3000 psi several times with same result. Open TIW valve on tubing and pressured back up and had small amount of flow. Suspect packoff may be leaking.  
Secure well for night. Will consult with Superintendent.

### Daily Summary

Activity Date:	2/21/2014	Days on Compl:	184	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Safety Meeting  
Pump into well at .5 bpm Worked pipe down to 10 points over pipe weight. No movement occurred, so slacked off and stacked out pipe on fish. No movement occurred.  
Rig up Vibration Technology. Begin to vibrate pipe. Made 2', continue vibrating. Rig weight indicator broke and had to shut down and replace.  
Weight indicator arrived and replaced.  
Continue vibrating pipe and pressure up on annulus. Shut down and pump into annulus. Pressure 3500 and pump kickout. Didn't want to use vibrator to jar with weight down due to possibly breaking grapple in overshot. Continue vibrating with up to 60 points over string weight.  
Worked pipe up to 60 over and stack weight on fish. Had flow in the tubing, so begin pumping down annulus. Could pump in at 2 bpm at 2700 psi.  
Pumped 44 bbls. Begin vibration tool and lost our pump in rate. Appeared sand was packing off. Kept vibrating, and appeared to get worse.  
Decided to rig down Vibration Technology. Begin to work pipe and attempt to pump in annulus, broke down annulus and begin to pump in at 2.0 bpm 3200 and pumped 80 bbls of 10lb. Worked pipe and made 10', then didn't make any extra in 1.5 hrs.  
Continue to pump down annulus for a total of 180 bbls. Will try to pump in in the a.m. and work pipe. If unsuccessful will decide next move to pull fish. Discuss situation with Superintendent  
SDFN secure well.

### Daily Summary

Activity Date:	2/22/2014	Days on Compl:	185	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'

**24 Hour Summary:** Safety Meeting  
Open well 0 psi. Start pumping down annulus, took 9.6 bbls to fill hole. Pump 44bbls down annulus at 1 bpm 1000 psi. Change rate to 2 bpm at 2400 psi and went to 3bpm at 3200 psi  
Worked pipe down hole slacking off on fish. No movement in fish. Attempted several more times and still no movement. Call superintendent and decision was made to get off fish and come out of hole.  
Release off of fish and pull 197 joints plus 10'pup. Lay out 35 joints, and standback 163 joints. 3 1/2 wash pipe arrive on location.  
Talley 34 joints of 3 1/2 wash pipe. Pick up wave overshot make up to 3 1/2 wash pipe. Made second connection. When pulling opening elevators and picking up, Appeared elevators caught pipe and pulled it out of slips. Pipe went in the hole. Replace slips. Ran remaining pipe to reach fish. Fish was on top of coil, screwed into 3 1/2 by all indications and worked over coil. Went down 5 stands, Pulled back up to top of coil. Will continue out if hole in a.m. standing pipe in derrick to check connection. Then will lay out both joints that was connected downhole. Will go to 24 hr. operations  
Secure well, all valves closed.

### Daily Summary

Activity Date:	2/23/2014	Days on Compl:	186	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'



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24 Hour Summary:	Safety Meeting Trip out of hole. We had screwed on to fish previous day. Got out of hole and indeed had wave shoe. Layed out joints that were screwed together downhole, replace overshot and shoe.Start back in hole Trip back in hole with shoe and 34 joints of 3 1/2 wash pipe and 134 of 2 7/8 ph06 joints to top of fish at 6162' No issues getting over fish. Continue in hole, on joint 184 tag fill. Depth 6638' 49.6 deg. Rig up Lynx swivel and Raider chemical plant. Start reverse circulating at 3 bpm 1000 psi. Returns were 3 bpm back to open top. Circulate bottoms up with a 10bbl 100 vics sweep. Continue circulating, waiting for sweep to come back to surface. Continue washing down to 6818' pump 20 bbl 100 visc sweep with medium sand show. 3bpm in and 3 bpm out. Rig down swivel and start out of hole. Tubig and casing pressure at 0 psi. Stand back 98 stands of 2 7/8 ph06 tubing and 15 stands of 3 1/2 wash pipe. Start back in hole.			
Daily Summary				
Activity Date:	2/24/2014	Days on Compl:	187	TD (TVD): 0'
Rig Company:		Rig Name:		TD (MD): 0'
24 Hour Summary:	Safety Meeting, discussed pinchpoints, pressures, emergency procedures, house keeping Stop on joint #195 depth ( 6985 ). Rig up TIW and prepare to pump bottoms up. Circulate 3 bpm # 1000 psi. Pump a 10bbl 100 visc sweep. 5 bpm in and 5 bpm out. Pumped a total of 158 bbls. Sweep back to surface in 38 minutes. Pull up to shear pins in snipper. After a few attempts, cutters ingauged. Neutral weight @ 38k. Pull 20k over with cutter ingauged. Shut in tubing and prepare to pump down annulus. At 1 bpm pressure @ 900 psi, 2 bpm pressure @ 1200 psi, 3 bpm pressure @ 1800 psi, 4.5 bpm pressure @ 2200, 5 bpm pressure @ 2400 psi. Circulated a total of 185 bbls. At 117 bbls pressure went up to 3000 psi and kicked out pump. Begin pumping back into annlus and ending pressure at 5bpm 2800 psi. Shut down pumps. Open tubing rams, open TIW valve. Pull up on pipe. Pipe weight at 54k, Begin pulling up to cut coil. Pulled to 90k and jars hit, pull to 135k and coil was cut. Well began to U-tube from csg to tubing. Shut in tubing and flow out csg to open top. After well equalized, start out of hole. Tripping out of hole with 2 7/8 ph06, and 3 1/2 Wash pipe, and 2 3/4 coil. At surface with 3 1/2 wash pipe with 2 3/4 coil inside. Install 2 3/4 elevators and wedding band on coil and 3 1/2 wash pipe. Pulled on coil and wouldn't pull. Pulled 35k on coil and no movement in coil. Had to cut coil at every joint.Recovered 851' of 2 3/4 coil. Change out pipe rams from 2 3/4 to 3 1/2 . Prepare to run back in hole. TIH with burning shoe, 26 joints of 3 1/2 wash pipe and 50 stands of 2 7/8 tubing.			
Daily Summary				
Activity Date:	2/25/2014	Days on Compl:	188	TD (TVD): 0'
Rig Company:		Rig Name:		TD (MD): 0'
24 Hour Summary:	Safety Meeting. Rig up swivel to 2 7/8 ph06 pipe. Start circulating 3 bpm 550 psi. Joint #199 . Pumped 10bbl 100 visc sweep. Pumped total of 218 bbls. Continue making connections, pumped 10 bbl 100 visc sweep, making light sand. Pumped total of 142 bbls. On joint #218 ( 7617' ) Well went on vacuum, pulled joint and lay out. Establish circulating gaining back 3 bpm 600 psi. Pump 10 bbl sweep, pump 48 bbls. Continue back in hole with tubing, circulating 2bpm getting back 1 bpm. Continue to joint 224 at depth 7801. Pumping 3 bpm getting 2bpm back. Pump 110 bbls. Circulate bottoms up, will start out of hole to run sniper and cut 2 3/8 coil. Lay down Power Swivel. TOOHH with a total of 224 jts 2 7/8" PH6 workstring & 26 jts 3.5" wash pipe. TIH w/ OS cutter, 26 jts 3.5" wash pipe & 194 jts 2 7/8" PH6 tbg.(continue TIH to depth @ shift change)			
Daily Summary				
Activity Date:	2/26/2014	Days on Compl:	189	TD (TVD): 0'
Rig Company:		Rig Name:		TD (MD): 0'
24 Hour Summary:	Continue TIH w/ 4 3/8" OS (with mechanical cutter) 3.5" 9.30# (26 jts) wash pipe & 2 7/8" 8.70# P-110 PH6 tbg (223 jts) to 7774'. Engage 4 3/8" OS @ 7774', work pipe from 48K to 90K, no free movement in fish. RU kelly hose to tbg & csg, shut pipe rams, reverse circulate in @ 3 bpm and out @ 1 bpm @ 1200#, circulation increased after 20 bbls gone to 3 bpm in & 2.5 bpm out @ 1600#, pumped a total of 35 bbls f/w. Shut pumps down. Bleed pressure off tbg & csg. Open pipe rams. Work & try engaging cutters to cut 2.375", pull 120K to 170K cutter did not engage & cut CT fish. Work pipe down slacking off to neutral wt 48k, pick up to try re-engaging cutter, OS grapple would not engage or latch fish. TOOHH lay down 1 jt 2 7/8" workstring, no movement. TOOHH lay down 25 jts 2 7/8" 8.70# P110 PH6 workstring, tie back on fast line. TOOHH stand back remainder of workstring (99 stds), Owen Jars & wash pipe (13 stds) in derrick. Tear down & Inspect 4 3/8" OS found 2 cutting knives to be gone (left in hole), 2 cutting knives to be turned up due to getting over TOF, remaining 4 knives were in good shape, no pins were sheared. Screw on new 4 3/8" OS cutter w/ cut lip guide shoe & TIH on same workstring, tag TOF @ 7012' w/ 26 jts wash pipe & 198 jts WS in hole tie back on 6 lines, try working shoe/OS over TOF, made several attempts with no success. Call was made to TOOHH and pick up burning shoe to dress up TOF. TOOHH stand back workstring & wash pipe in derrick. TIH w/ burning shoe, 26 jts 3.5" wash pipe & 197 jts 2 7/8" workstring. (Break Tower)			
Daily Summary				
Activity Date:	2/27/2014	Days on Compl:	190	TD (TVD): 0'
Rig Company:		Rig Name:		TD (MD): 0'
24 Hour Summary:	Tag TOF @ 7012'. RU Lynxs 3.5 power swivel. Change out stripping rubber. Dress up TOF w/ 4.38" fluted burn over shoe from 7012' to 7022' while reverse circulating in @ 3 bpm & out @ 2 bpm, circulating pressure - 1400#. Shut pumps down. Rack Lynxs Power Swivel back. TOOHH w/ fluted burn over shoe, stand back 13 stds 3.5" wash pipe & 98 stds 2 7/8" 8.70# P-110 PH6 workstring in derrick. Wait on 4 11/16" Overshot. TIH W/ 4 11/16" Overshot w/ high pressure packoff/mill control (2 3/8" basket grapple) on 2 7/8" 8.70# P-110 PH6 tbg workstring, tag TOF w/ jt # 198, (7012'). Work overshot over TOF & latch, pick up & pull into fish 20k over string wt of 50k (70k) to ensure grapple was securely latched. NU TIW valve & kelly hose. RU Lynx's tri-plex pump & start injection test down 2 7/8" tbg for pump down operations. 1.5 bpm @ 4100#, pump tripped out after 6 bbls gone, minimal leak off, bleed pressure down to 2000#, attempt pumping in @ 1 bpm, pump tripped out 2nd time @ 4100#. Coil Tbg fish plugged. Bleed pressure off workstring. RD Kelly & TIW valve. Release 4 11/16" overshot, TOOHH lay down 27 jts 2 7/8" 8.70# P-110 PH6 tbg, stand remainder back in derrick. (225 jts total on pipe racks & in derrick) TIH w/ 4 3/8" OS w/ mechanical cutter, 26 jts 3.5" wash pipe & 198 jts 2 7/8" 8.70# P-110 PH6 tbg, work OS over TOF @ 7012', continue tripping in over CT fish to 7790', engage cutter & cut 2 3/8" CT @ 7770', LD 2 jts on pipe racks, Continue TOOHH standing back 55 stands @ tower.			
Daily Summary				



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Activity Date:	2/28/2014	Days on Compl:	191	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Continue TOOH standing back 2 7/8" 8.70# P-110 PH6 workstring to 3.5" 9.30# wash pipe, lay jars down, NU wedding band on 2 3/8" CT fish, try pulling fish free from OS, no success, cold cut & strip at each connection laying down +/- 32' CT fish per, total CT fish recovered = 746', New TOF @ 7758'. Wait on new wash over shoe with cut rite laid in on inside of shoe to dress up TOF while washing over. TIH w/ 4 3/8" fluted wash over shoe (cut rite laid on the ID to dress off the TOF OD) on 26 jts 3.5" 9.30# CS Hydril wash pipe, Jars & 223 jts 2 7/8" 8.70# P-110 PH6 tbg workstring, tag TOF @ 7758', RU Lynx's Power Swivel, break circulation reversing out @ 3 bpm in & 3 bpm out. Work 4 3/8" shoe over TOF, rotate & work wash pipe over 2 3/8" CT fish 4 jts, stop & pump 10 bbl 100 vis sweep, circulate to surface, recovered light to medium sand in returns, continue wasing down, tag solid & lost circulation @ 7885', continue pumping down csg lost 140 bbls fluid, Lay down 2 jts & well began to flow up csg & tbg, Shut well in to check pressures: SITP - 550#, SICP - 570#. Close pipe rams & kill well, make connection & continue to wash down, tag solid @ 7978', shut pump down. Break tower @ 0600.				
Daily Summary					
Activity Date:	3/1/2014	Days on Compl:	192	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Lay down 1 jt with Lynx's 3.5 Power Swivel. ND & rack Lynx's Power Swivel down. Tie back on fast line. TOOH stand back 91 stands 2 7/8" 8.70# P-110 PH6 tbg workstring, rig shut down, hole in radiator called mechanic. (23 stands 2 7/8", jars & 13 stands wash pipe still remaining in hole). Shut down for CC Forbes to repair radiator & change out brakes on rig, worn & unsafe for tripping. Finish TOOH w/ workstring & Wash pipe, lay down burn over shoe. TIH w/ 4 3/8" continuous overshot cutter, 26 jts 3.5" 9.30# wash pipe, jars & 2 7/8" workstring, tag TOF with jt 220 @ 7645' (Note: Tagged TOF high), work over TOF 12', lost movement and could not go down, RU power swivel & try circulating down csg. Break Tower.				
Daily Summary					
Activity Date:	3/2/2014	Days on Compl:	193	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Rack Lynx's Power Swivel back, change out elevators, work cutter from neutral wt 55k to 160k @ 7665' (depth when cutter went off). Tie back on fast line. Work on drum brakes on rig 1.5 hrs. TOOH stand back 2 7/8" 8.70# P-110 PH6 workstring, jars & 26 jts 3.5" 9.30# wash pipe & mechanical cutter, CT fish sticking out the end of cutter, lay down a total of 224.40' CT fish. New TOF @ 7982'. (NOTE: Total 2 3/8" CT fish recovered to date = 1822'). TIH w/ 4 3/8" wash over shoe, 26 jts 3.5" 9.30# wash pipe, 1 jt 3.5" 9.30# trash jt, jars & 222 jts 2 7/8" 8.70# P110 PH6 tbg workstring while top filling hole while TIH. Tie back on 6 lines. RU Lynx's 3.5# Power Swivel. Break circulation from 7769' & establish 3 bpm in & 3 bpm out, pump 10 bbl 100 vis sweep, circulating pressure - 1400#. Circulate sweep to surface. Continue TIH w/ workstring circulating & cleaning up 5 1/2" csg each jt to top of fish tagged @ 7982' (tbg tallie), work OS over TOF & continue TIH washing over 2 3/8" CT fish to 8785' w/ jt 255. pump 10 bbl 100 vis sweep & circulate to surface. Break tower, prep to TOOH w/ tbg.				
Daily Summary					
Activity Date:	3/3/2014	Days on Compl:	194	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Finish circulating a 10 bbl 100 vis sweep bottoms up from 8785' in @ 3 bpm in & 3 bpm out, circulating pressure - 1500#, FCP - 500#. Shut pumps down, allow tbg to bleed off to 0#. Change out stripping rubber, ND Lynx's 3.5 power swivel. Tie back on fast line. Change out handling tools. TOOH lay down 1 jt, 2 7/8" 8.7# P-110 PH6 tbg, stand back remainder of 2 7/8" 8.70# P-110 PH6 tbg workstring, jars & 3.5" 9.30# wash pipe in derrick, lay down 1 jt 3.5" 9.30# trash jt. Make up & TIH w/ 4 3/8" mechanical cutter on 26 jts 3.5" 9.30# wash pipe, jars & 2 7/8" 8.70# P-110 PH6 workstring. Tag TOF @ 7982', work OS/cutter over TOF & continue TIH to 8785' (jt 255), latch fish, pick up weighing 20K over string wt, suspect we have remainder of fish in OS 20k drag, lay down 1 jt, start out w/ 2nd jt, pulled tight, work pipe from 68k to 100k setting jars off 6 times, no movement, cut coil @ 8785'. TOOH lay down 254 jts 2 7/8" 8.70# P-110 PH6 workstring, Jars, 16 jts 3.5" 9.30# wash pipe @ tower break, having to strip CT fish out of 3.5 wash pipe.				
Daily Summary					
Activity Date:	3/4/2014	Days on Compl:	195	TD (TVD):	0'
Rig Company:		Rig Name:		TD (MD):	0'
24 Hour Summary:	Continue TOOH stripping & laying down 2 3/8" CT fish & 3.5" 9.30# wash pipe. Total fish recovered this run = 827', New TOF @ 8725', Total fish recovered to date = 2649'. Change out 3.5" rams in BOP w/ blind rams, shut frac valve & blind rams to secure well. RDMO CC Forbes Workover rig & other miscellaneous services. Well Shut in. Temporarily abandoned. Drop From Report.				