

Operations Summary Report

Legal Well Name: UNIVERSITY BL NO 6 (STRAWN)

Common Well Name: UNIVERSITY BL NO 6 (STRAWN)

Spud Date:

Event Name: RECOMPLETION

Start: 5/25/2006

End:

Contractor Name: KEY ENERGY SERVICES

Rig Release:

Group:

Rig Name: KEY ENERGY SERVICES

Rig Number: 442

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/25/2006	11:30 - 13:00	1.50	RURD	RIG	MIRU	Held Safety Meeting. Move in / RU Rig. Unhang Well. Laydown Horse head. Unseat Pump.
	13:00 - 19:00	6.00	RUNPUL	RODS	RODOP	POOH w/ 40 - 1" Steel Rods. Pump Dragging while pulling rods. Pump stuck in tubing after pulled 40 rods (would not go up or down). Tried to Unlatch On/Off Tool (right hand unscrew rod coupling). Pulled total of 80 - 1" Steel Rods, 80 - 7/8" Steel Rods, and 5 - 3/4" Steel Rods. Found Rods Parted in body break on 5th 3/4" Rod (165 rods from surface. Rods showing bad corrosion especially on 3/4" rods. RU to pull tubing and strip out of hole with tubing and rods.
5/26/2006	19:00 - 19:30	0.50	SECURE	WELL	RODOP	Secure Well/Location, SIFN
	08:00 - 10:00	2.00	SAFETY	MTG	RODOP	Held Safety Meeting. Open Well up. Load up Rods and Set Pipe Racks.
	10:00 - 16:00	6.00	NUND	BOPE	RODOP	Unflange Well Head. Found Tubing Parted 8' below ground Level. Install BOP Equipment. Fish Parted tubing. Tubing Free and Parted again @ about 4600' below surface by weight indicator. RU to Fish Parted Rods. Rod Part about 4100' from surfac and Tubing Parted @ about 4600' from surface (must fish rods out of tubing before pulling tubing out of well). Wait on Rods to be delivered.
5/30/2006	16:00 - 16:30	0.50	SECURE	WELL	RODOP	Shut in Well. Secure Well/Location, SIFWE.
	07:30 - 09:30	2.00	SAFETY	MTG	RODOP	Held Safety Meeting. Open Well up. Unload Tubing and Pipe Racks. Set Frac Tank and Swab Tank.
	09:30 - 13:00	3.50	RUNPUL	RODS	RODOP	RIH w/ Steel Rod Fishing Tool and 186 Steel Rods. Catch Parted 3/4" Steel Rod Body. Unseat Pump.
5/31/2006	13:00 - 19:00	6.00	RUNPUL	RODS	RODOP	POOH w/ 80 - 1" Steel Rods, 80 - 7/8" Steel Rods, 171 - 3/4" Steel Rods, On/Off Tool, 1 - 2' - 7/8" Pony Rod, and Rod Insert Pump. Hang 16 - 1" Tripples and Rod Transfer Cable broke. Lay down on ground all Remaining 1", 7/8", 3/4" Steel Rods and Rod Insert Pump.
	19:00 - 19:30	0.50	SECURE	WELL	RODOP	Secure Well/Location, SIFN
	07:30 - 08:00	0.50	SAFETY	SMTG	RODOP	Held Safety Meeting. Kill Well. Open Well up.
	08:00 - 09:00	1.00	PLRNRP	RODP	RODOP	RIH w/ 48 - 1" Steel Rod and POOH 48 - 1" Steel Rods. Laydown all Rod on Ground. RU to Pull Tubing.
	09:00 - 13:00	4.00	PLRNRP	PTBG	RODOP	POOH w/ 161 Jts 2-7/8" Tubing Lay all Tubing Down on Ground (Top 80 Jts L-80 2-7/8" Tubing) Remaining Tubing all J-55 Tubing. Last 46 Joints bad Tubing full of Corrosion Holes. Found Tubing Parted below upset on Body of 162nd Joint tubing @ 5004'.
6/1/2006	13:00 - 18:30	5.50	TRIP	PUDP	OTHER	RIH w/ Overshot, and 162 Jts NEW L-80 2-7/8" Tubing. Picking up Tubing off Pipe Racks. Latched on to tubing and Pulled 5,000 # Over Tubing Weight.
	18:30 - 19:00	0.50	SHUTDN	SISC	OTHER	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG	RODOP	Held Safety Meeting. Kill Well. Open Well up.
	08:00 - 09:00	1.00	RURD	ELEC	RODOP	RU Rotary Wireline to Run Free Point and Chemical Cut tubing.
	09:00 - 13:30	4.50	RUNPUL	ELEC	RODOP	RIH w/ Free Point. Could not get Past Top of Fish @ 5012' Wire Line Depth. POOH w/ Free Point Tool. Ran 1-3/4" Spud Bar on Wireline. Could not get through top of Fish. POOH. RD Rotary Wireline.
6/2/2006	13:30 - 17:00	3.50	RUNPUL	TBG	RODOP	Tried to Unset TAC. Could not Turn Tubing with Wrenches and Did not want to Torque Tubing enough to collapse bad tubing. Tried to Shear TAC Shear pins Pulled 70,000 # and Grapple pulled off fish. Could not get back on fish. POOH w/ 162 Jts Tubing. Found 6" piece of fish in Grapple in overshot. Wait on Mill and Drill Collars. Shutdown because of Rain.
	17:00 - 17:30	0.50	SECURE	WELL	RODOP	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG	RODOP	Held Safety Meeting. Open Well up.
	08:00 - 10:30	2.50	TRIP	BHA	RODOP	RIH w/ 4-3/4" Flat Bottom Mill, Bit Sub, 4 - 3-1/2" Drill Collars, Top Sub, and 158 Jts 2-7/8" Tubing. Tag Top of fish @ 5019'.
	10:30 - 15:00	4.50	MILL	JUNK	RODOP	RU Swivel. Started Circulating hole reverse with water. Dress Off 3' of

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Contractor Name: KEY ENERGY SERVICES

Rig Release:

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Rig Name: KEY ENERGY SERVICES

Rig Number: 442

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/2/2006	10:30 - 15:00	4.50	MILL__	JUNK__	RODOP	tubing from 5019' to 5022'. Circulate hole clean. RD Swivel.
	15:00 - 16:30	1.50	TRIP__	BHA__	RODOP	POOH w/ 158 Jts Tubing, 4 Drill Collars, and Mill. Laydown Drill Collars and Mill.
	16:30 - 18:00	1.50	TRIP__	BHA__	RODOP	RIH w/ 4-1/16" OD Overshot w/ 2-7/8" Grapple, Top sub, and 162 Jts 2-7/8" Tubing. Latch on to Fish. Pull 50,000# total on tubing to make sure fish has good bite. Slack off to 40,000#.
	18:00 - 19:30	1.50	RUNPUL	BRDL	RODOP	RU 4 - 7/8" Steel Rods on Sand Line. RIH w/ Rods and Sandline past top of fish and to TAC (make sure Wireline freepoint and Chemical cutter can get past top of fish and down to where tubing needs to be cut 15' above TAC). POOH w/ Sand Line and Laydown Rods.
6/5/2006	19:30 - 20:00	0.50	SECURE	WELL	RODOP	Shut-in and Secure Well. SDFWE.
	08:00 - 09:00	1.00	SAFETY	MTG__	RODOP	Held Safety Meeting. Open Well up. Wait on Wireline to Arrive on Location.
	09:00 - 10:00	1.00	WIRELN	RPTL	RODOP	RU Rotary Wireline to Run Free Point and Chemical Cut tubing.
	10:00 - 11:00	1.00	WIRELN	RPTL	RODOP	RIH w/ Free Point. Found Tubing Free @ 8220'. Found TAC @ 8222' -8225' Wire Line Depth. POOH w/ Free Point Tool. Ran Chemical Cutter on Wire line to 8206'. Shoot Cutter POOH w/ Chemical Cutter. Pick up on Tubing. Tubing was Free. RD Rotary Wireline.
6/6/2006	11:00 - 15:30	4.50	TRIP__	PUDP	RODOP	POOH and Stand Back in Derrick 162 Jts New 2-7/8" L-80 Tubing. Lay down Overshot and 104 Jts Bad 2-7/8" Corroded Tubing and 15' Chemical Cut Joint. Left 15' Chemical cut Joint as Top of Fish with TAC, 5 Jts Tubing, Seating Nipple and Mud Joint in hole.
	15:30 - 18:30	3.00	TRIP__	BHA__	RODOP	RIH w/ 4-1/16" OD Overshot w/ 2-7/8" Grapple, Bumper Sub, Jars, 2 - 3-1/2" Drill Collars, Top sub, and 162 Jts New L-80 2-7/8" Tubing out of Derrick. Pick up 36 Jts New L-80 2-7/8" Tubing off Pipe Racks. Well Started Running Fluid over BOPE. Shut down and Closed in Well. Will Line up Vacuum Truck for Tomorrow.
	18:30 - 19:00	0.50	SHUTDN	SISC	RODOP	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG__	RODOP	Held Safety Meeting. Open Well up. RU Vacuum Truck.
6/7/2006	08:00 - 09:30	1.50	TRIP__	BHA__	RODOP	FIH w/ Tubing. Tag Top of Fish @ 8194' (Tubing Talley) w/ 4-1/16" OD Overshot w/ 2-7/8" Grapple, Bumper Sub, Jars, 2 - 3-1/2" Drill Collars, Top sub, and 263 Jts New L-80 2-7/8" Tubing
	09:30 - 10:30	1.00	TRIP__	BHA__	RODOP	Tag Top of Fish @ 8194' on 263 Jts. Latch on to Fish with Grapple in Overshot. Picked up String Wt of 58,000#. Pulled Free. String Wt=50,000#. Tried to Work over Top of Fish Again. Did not Catch Fish.
	10:30 - 14:00	3.50	TRIP__	BHA__	RODOP	Tied back on 2 Lines. POOH. No Recovery. Load Bad Tubing, Rods, and Pipe Racks on trucks to haul off. (String Wt 50,000#).
	14:00 - 17:00	3.00	TRIP__	BHA__	RODOP	RIH w/ 4-1/16" OD Overshot w/ NEW 2-7/8" Grapple, Bumper Sub, Jars, 2 - 3-1/2" Drill Collars, Top sub, and 263 Jts New L-80 2-7/8" Tubing. Tag Top of Fish @ 8194' (Tubing Talley)
6/7/2006	17:00 - 18:30	1.50	CIRC__	CFLD	RODOP	RU Swivel. Circulate off Top of Fish. Tag Top of Fish @ 8194' on 263 Jts. Latch on to Fish with Grapple in Overshot. Picked up String Wt of 50,000#. Tried to Release TAC. Seemed to have Gained 1 pt on String Weight. Could not Go Down Below 8194 (original top of Fish).
	18:30 - 19:00	0.50	TRIP__	BHA__	RODOP	PUH w/ 20 Jts Tubing. Left 243 Jts Tubing and BHA in Well for Kill String.
	19:00 - 19:30	0.50	SECURE	WELL	RODOP	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG__	RODOP	Held Safety Meeting. Open Well up. RU Vacuum Truck.
6/7/2006	08:00 - 10:30	2.50	TRIP__	BHA__	RODOP	Finish POOH with Tubing and Fishing BHA. No Recovery.
	10:30 - 13:30	3.00	TRIP__	BHA__	RODOP	RIH w/ 4-1/16" OD Overshot w/ Kutrie on Bottom of Overshot w/ 2-7/8" Grapple, 2' Extension, Bumper Sub, Jars, 2 - 3-1/2" Drill Collars, Top sub, and 263 Jts New L-80 2-7/8" Tubing
	13:30 - 15:00	1.50	TRIP__	BHA__	RODOP	Tag Top of Fish @ 8194' on 263 Jts. RU Swivel. Latch on to Fish with Grapple in Overshot. Tried to Unset TAC Pulling 10 pts Tension to Keep

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Contractor Name: KEY ENERGY SERVICES

Rig Release:

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Rig Number: 442

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/7/2006	13:30 - 15:00	1.50	TRIP__	BHA__	RODOP	Grapple from Releasing but Overshot keeps Releasing. RD Swivel. Jar on TAC 4 Times increasing Weight from 70,000# to 85,000# in 5,000# intervals. Sheered TAC when Jarred with 85,000# Tension pulled. TAC Released.
	15:00 - 18:00	3.00	TRIP__	BHA__	RODOP	POOH with 263 Jts Tubing, Fishing BHA w/ Fish in Overshot. Laydown Drill Collars, Jars, Bumper Sub, Overshot, and Fish Consisting of Cut off Jt, TAC, 5 Jts 2-7/8" Tubing, Seating Nipple, and Mud Joint.
	18:00 - 19:00	1.00	TRIP__	BHA__	RODOP	RIH w/ 4-3/4" Bit, 5-1/2" Casing Scraper, and 44 Jts L-80 2-7/8" Tubing for Kill String.
6/8/2006	19:00 - 19:30	0.50	SECURE	WELL	RODOP	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG__	RODOP	Held Safety Meeting. Open Well up. RU Vacuum Truck.
	08:00 - 10:00	2.00	RUNPUL	TBG__	RODOP	Finish in Hole with Tubing. RIH w/ 4-3/4" Bit, 5-1/2" Casing Scraper, and 272 Jts 2-7/8" Tubing. Bit @ 8427' (Tubing Talley). Did Not Tag.
	10:00 - 12:30	2.50	RUNPUL	TBG__	RODOP	POOH w/ 2-7/8" Tubing, Casing Scraper, and Bit.
	12:30 - 13:00	0.50	SAFETY	MTG__	RODOP	Rig up Baker Atlas Perforating Equipment. Held safety meeting.
6/9/2006	13:00 - 15:00	2.00	SETREL	PLUG	RODOP	Assemble Gauge Ring, Junk Basket, and Gamma Ray Logging Tool. RIH w/ Logging Tools on Wireline. Fluid Level @ 400' from surface. RIH Get on Depth. RIH to 8427'. Pull Gamma Ray and Collar Log From 8420' to 8100'. POOH.
	15:00 - 17:00	2.00	SETREL	PLUG	RODOP	Assemble CIBP. RIH w/ CIBP. Fluid Level @ 400' from surface. RIH Get on Depth. Set CIBP @ 8415' (Center of Element). Pull Collar Log from 4000' to 3000' to See if Casing is bad in this interval. POOH. RD Baker Atlas.
	17:00 - 17:30	0.50	RURD__	ELEC	RODOP	Rig down Baker Atlas Perforating Equipment.
	17:30 - 18:00	0.50	TRIP__	BHA__	RODOP	RIH w/ 5-1/2" Packer, and 50 Jts L-80 2-7/8" Tubing for Kill String.
	18:00 - 18:30	0.50	SECURE	WELL	RODOP	Shut-in and Secure Well. SDFN.
6/9/2006	07:30 - 08:00	0.50	SAFETY	MTG__	RODOP	Pre-Job safety meeting. Open Well.
	08:00 - 15:00	7.00	RUNPUL	TBG__	RODOP	Finish Running in Hole w/ Tubing. Complete BHA Configuration is 5-1/2" Packer, and 279 Jts 2-7/8" Tubing. Set Packer @ 8345' on 279 Jts.
						Pressure Test Casing and CIBP to 1000 psi. Casing and CIBP Held pressure. Move Packer up Hole to Isolate Casing Leak. Isolated 3 Separate Casing Leaks between 3490' and 3738' from surface. Casing Tested good from surface to 3490'. Casing Tested good from 3738' to 8415' (CIBP).
6/12/2006						1st Leak (TOP Leak) Casing did not test good between 3490' and 3522' Casing Leaked 1/8th Bbl/Minute @ 500 psi. 2nd Casing Leak Isolated (Middle Leak) was Between 3522' and 3553' Casing Leaked but could not pump into leak (Pressure up to 500 psi and Pressure fell 200 psi/Minute from 500 psi to 300 psi in One Minute. 3rd Casing Leak (Bottom Casing Leak) was Isolated Between 3707' and 3738'. Could not Pump into Leak. Casing Leak was Pressured to 500 psi and had 50 psi per minute loss (Pressure Fell from 500 psi to 450 psi in one minute.
	15:00 - 16:00	1.00	RUNPUL	TBG__	RODOP	Release Packer and PUH w/ 2-7/8" Tubing, and 5-1/2" Packer. Leave 30 Jts 2-7/8" Tubing and Packer in Well for Kill String.
	16:00 - 16:30	0.50	SECURE	WELL	RODOP	Secure Well. SDFWE.
	07:30 - 08:00	0.50	SAFETY	MTG__	RODOP	Held Safety meeting. Open Well.
	08:00 - 08:30	0.50	RUNPUL	TBG__	RODOP	POOH w/ 30 Jts 2-7/8" Tubing, and 5-1/2" Packer.
6/12/2006	08:30 - 10:00	1.50	RUNPUL	TBG__	RODOP	RIH w/ 2-7/8" Seating Nipple, 160 jts 2 7/8" L-80 tubing. Seating Nipple @ 5020'.
	10:00 - 10:30	0.50	SWAB__	TBG__	RODOP	RU Swab. RU Flowline to Swab Tank.
	10:30 - 18:00	7.50	SWAB__	TBG__	RODOP	RIH w/ Swab. Initial Fluid Level @ Surface. Made 25 Swab runs. Recovered 135 bbls Water Swabbing. Final Fluid Level @ 3800' from Surface. Fluid Level Stable @ 3800' from Surface Last Hour of Swabbing and Recovered 27 bbls Water Last Hour of Swabbing. Shutdown

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 Contractor Name: KEY ENERGY SERVICES
 Rig Name: KEY ENERGY SERVICES

Start: 5/25/2006
 End:
 Rig Release:
 Rig Number: 442

Spud Date:

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/12/2006	10:30 - 18:00	7.50	SWAB	TBG	RODOP	Swabbing and Wait 1 Hour for Fluid Entry. RIH w/ Swab and Tag Fluid Level @ 3100' after waiting 1 hour. Fluid Rose 700' in 1 hour From 3800' to 3100'. RD Swab.
6/13/2006	18:00 - 18:30	0.50	SECURE	WELL	RODOP	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG	RODOP	Held Safety meeting. Open Well. Fluid Level @ 100' from Surface. Fluid Rose from 3100' from surface to 100' from surface overnight (14 hours). POOH w/ 160 jts 2 7/8" L-80 tubing, and 2-7/8" Seating Nipple. Laydown Drill Collars.
	08:00 - 10:00	2.00	RUNPUL	TBG	RODOP	RIH w/ 2-7/8" Reentry Guide, 2-7/8" 'R' Nipple (2.257" ID) Profile L-80 Nipple, 1 Jt 2-7/8" L-80 Tubing, 2-7/8" x 5-1/2" Arrow Set 1-X Packer (2.375" ID), 2-7/8" - T-2 On/Off Tool w/ 2.31" ID 'X' Profile L-80 Seal Nipple, and 269 Jts 2-7/8" L-80 Production tubing and 20' 2-7/8" Tubing Subs. Landed Bottom of Assembly @ 8401'.
6/14/2006	10:00 - 13:00	3.00	RUNPUL	TBG	RODOP	Start Pumping Water with reverse unit. Pumping Direct Down Tubing. Broke circulation. Circulate hole clean with 190 bbls Fresh Water.
	13:00 - 17:00	4.00	CIRC	CFLD	CLNOUT	Shut-in and Secure Well. SDFN.
	17:00 - 17:30	0.50	SECURE	WELL	RODOP	Held Safety Meeting. Open Well up.
	08:00 - 08:30	0.50	SAFETY	MTG	CMPPRF	RU M & W Acid Pump Truck. Pump Acid to Pickle Tubing. Pump 750 gals 15% HCL Down Tubing and Displace Acid with 34 bbls Water. Pump Acid and Displacement Water @ 1 bpm. Reverse out Water and Acid to Pit Pumping @ 1bpm.
	08:30 - 10:30	2.00	PUMP	ACID	CMPPRF	Pump 500 gals 10% Acedic Acid and Displaced with 44 bbls Water to Put Acid on Spot. Acid Spotted between 7900' and 8401' in 5-1/2" Casing after PUH w/ tubing and Packer BHA. RD M & W Acid Pump Truck.
	10:30 - 11:30	1.00	PUMP	ACID	CMPPRF	PUH and Laydown 4 jts 2 7/8" L-80 tubing. Reverse Circulate 15 bbls water to clear Acid out of Annulus. Set Packer @ 8221' (Tubing Talley) on 265 Jts 2-7/8" L-80 Tubing. Release On/Off Tool. PUH 8' off On/Off Tool.
	11:30 - 12:30	1.00	RUNPUL	TBG	CMPPRF	Start Pumping 2% KCL Water with Corrosion Inhibiting Packer Fluid Direct (Down Tubing) with reverse unit. Broke circulation. Pumped 200 bbls 2% KCL Water with Corrosion Inhibiting Packer Fluid down Tubing and Back up Casing Annulus. Circulated Hole Completely until Clean and Packer Fluid Completely filled Annulus. Latch on to On/Off Tool. Pressure Test Tubing and On/Off Tool to 1000 psi. Held Pressure.
	12:30 - 14:00	1.50	CIRC	CFLD	CMPPRF	RU Swab. RIH w/ Swab. Initial Fluid Level @ Surface. Made 8 Swab runs. Recovered 35 bbls Load Water Swabbing. Final Fluid Level @ 6000' from Surface. RD Swab.
	14:00 - 16:00	2.00	SWAB	TBG	CMPPRF	ND BOP and installed wellhead with flanged 5000# tree assembly. All trim in valves, choke and fittings are high H2S and CO2 resistant.
	16:00 - 17:30	1.50	NUND	BOPE	CMPPRF	Rig up Baker Atlas Perforating Equipment. Held perforating safety meeting.
	17:30 - 18:00	0.50	SAFETY	MTG	CMPPRF	Arm and PU Perforating Gun. Pick up Lubricator and 2" OD Predator Dual Fire Slick Gun and pressure Tested Lubricator to 1000 psi. Held pressure.
	18:00 - 19:00	1.00	PERF	CSG	CMPPRF	RIH w/ 2" Predator Slick Gun Carrier w/ 6.5 gram Charges w/ 4 JSPF, 0 deg phasing w/ Gamma Gun. Get on Depth. Perforating Top Down in 10% Acedic Acid. Perforate f/ 8302' - 8304' and 8313' - 8316'. POOH with Wire Line. Initial Fluid Level @ 6000' from surface. All Shots Fired.
	19:00 - 20:30	1.50	PERF	CSG	CMPPRF	Arm and PU Perforating Gun. Pick up 2" OD Predator Slick Gun. RIH w/ 2" Predator Slick Gun Carrier w/ 6.5 gram Charges w/ 4 JSPF, 0 deg phasing w/ Collar Locator. Get on Depth. Perforating Top Down in 10% Acedic Acid. Perforate f/ 8341' - 8363'. Started to POOH with Wire Line. Pulled Up to 8290' and Pulled Tension into Electric Line. Found Perforating Gun Stuck. Worked with Line to Free Perforating Gun With out Success. Pulled 50% Excess of Line Weight and Packed Off Lubricator. Secure Line and

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Contractor Name: KEY ENERGY SERVICES

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Rig Number: 442

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6/14/2006	19:00 - 20:30	1.50	PERF__	CSG__	CMPPRF	Left Tension in Line overnight.
	20:30 - 21:00	0.50	SECURE	WELL	CMPPRF	Shut-in and Secure Well. SDFN.
6/15/2006	07:30 - 10:00	2.50	SAFETY	MTG__	CMPPRF	Held Safety Meeting. Check Tubing. No Pressure and No Vacuum. Checked Line Tension on Electric line. Same as left last night. Worked with line with out success could not free Perforating Gun. Slacked off on Wire line Tension. Open Well up. Hook up Reverse Unit.
	10:00 - 15:30	5.50	PUMP__	WTR__	CMPPRF	Pump 35 bbls Water down Tubing. Caught 300 psi Pressure. Shutdown Pump. Pressure Fell to 0 psi. Repressure tubing to 300 psi. Perforating Gun Came Free. POOH w/ Perforating Gun. Found Signs of Collar Locator jammed into Reentry Guide with Electric line beside collar locator. Wire Flat and Braded Pattern visible on collar locator. Tried to rehead Electric line but line was bad and could not be used. Called for Different Baker Atlas Electric line Truck. Wait on Arrival of Truck.
	15:30 - 16:30	1.00	SAFETY	MTG__	CMPPRF	Rig up Baker Atlas Perforating Equipment. Held perforating safety meeting.
	16:30 - 18:00	1.50	PERF__	CSG__	CMPPRF	Arm and PU Perforating Gun. Pick up Lubricator and 2" OD Predator Dual Fire Slick Gun and pressure Tested Lubricator to 1000 psi. Held pressure. RIH w/ 2" Predator Slick Gun Carrier w/ 6.5 gram Charges w/ 4 JSPF, 0 deg phasing w/ Gamma Gun. Tagged up with Bottom of Perforating Gun @ 8349' (collar locator @ 8313'. Spudded on Hard surface (not Sticky) with 400 # 35' x 2" OD Predator Perforating Gun for 30 minutes to try to get below 8349' with out Success. POOH with Wireline. RD Wireline. (Yesterday shot perforations in 2 gun runs from 8302' - 8363') and Tagged CIBP @ 8414' before shooting on both Gun Runs. Bottom of Tubing Reentry Guide @ 8248' Wireline Corrected Depth (8257' Tubing Talley Depth) and PBDT @ 8414' Wireline Corrected. There is nothing but 5-1/2" Casing from 8248' to 8414'. Second Gun Run Perforating from 8341' - 8363' was the gun that shot up the hole and got stuck in the tubing reentry Guide.
	18:00 - 18:30	0.50	SECURE	WELL	CMPPRF	Shut-in and Secure Well. SDFN.
6/16/2006	08:00 - 09:00	1.00	SAFETY	MTG__	CMPPUL	Held Safety meeting. Well on Slight Vacuum. Open Well.
	09:00 - 10:00	1.00	SWAB__	TBG__	CMPPUL	RU Swab. RIH w/ Swab. Found Fluid Level @ 100' from Surface. POOH w/ Swab. RD Swab. Formation Supporting full Column of Water.
	10:00 - 11:00	1.00	NUND	BOPE	CMPPUL	Remove Flowing Well Head Tree. Install BOPE. Unset Packer.
	11:00 - 15:00	4.00	RUNPUL	TBG__	CMPPUL	POOH w/ 265 Jts 2-7/8" Tubing, On/Off Tool, and 5-1/2" Packer w/ BHA. Packer Hung up @ 3500'. RIH 30' and Pulled back up with no drag. Continued to POOH with no trouble. When laydown packer found lost 1 set slips off packer. The Slips were not riding on top of the packer so they must have fallen out of the casing in the hole in the casing at 3500'.
	15:00 - 18:30	3.50	RUNPUL	TBG__	CMPPUL	RIH w/ 4-3/4" Mill Tooth Bit, 4 - 3-1/2" Drill Collars, and 266 jts 2 7/8" L-80 tubing. Tag Top of CIBP @ 8362' (Tubing Talley)(Tag @ 8349' wireline corrected). CIBP Blown up hole 65' from 8414' to 8349' wireline corrected because of Perforation Concussion and Hydrostatic underbalance.
	18:30 - 19:00	0.50	SECURE	WELL	CMPPUL	Shut-in and Secure Well. SDFN.
6/17/2006	07:30 - 08:00	0.50	SAFETY	MTG__	RODOP	Held Safety Meeting. Open Well up.
	08:00 - 08:30	0.50	RUNPUL	TBG__	CLNOUT	RIH and Tag Top of CIBP @ 8362' (Tubing Talley). RU Power Swivel.
	08:30 - 10:30	2.00	CIRC__	CFLD	CLNOUT	Start Pumping Water with reverse unit. Broke circulation, Drill out CIBP @ 8362' and Pushed CIBP Down to 8445' (Tubing Talley) with 269 Jts 2-7/8" Tubing. Circulate Hole Clean. Laydown Swivel.
	10:30 - 12:30	2.00	RUNPUL	TBG__	CLNOUT	POOH w/ 269 Jts 2-7/8" Tubing, 4 -3-1/2" Drill Collars, and 4-3/4" Mill Tooth Bit. Laydown Drill Collars and Bit.
	12:30 - 13:30	1.00	RUNPUL	TBG__	CLNOUT	RIH with 20 Jts 2-7/8" Tubing for Kill String.
	13:30 - 14:00	0.50	SECURE	WELL	RODOP	Secure Well. SDFWE.

Operations Summary Report

Legal Well Name: UNIVERSITY BL NO 6 (STRAWN)

Common Well Name: UNIVERSITY BL NO 6 (STRAWN)

Event Name: RECOMPLETION

Start: 5/25/2006

Spud Date:

Contractor Name: KEY ENERGY SERVICES

Rig Release:

Group:

Rig Name: KEY ENERGY SERVICES

Rig Number: 442

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/19/2006	07:30 - 08:00	0.50	SAFETY	MTG__	CMPPRF	Held Safety Meeting. Well on Very Slight Vacuum. Open Well up.
	08:00 - 08:30	0.50	RUNPUL	TBG__	RODOP	POOH w/ 20 jts 2 7/8" L-80 tubing.
	08:30 - 08:45	0.25	SAFETY	MTG__	CMPPRF	Rig up Baker Atlas Perforating Equipment. Held perforating safety meeting.
	08:45 - 09:00	0.25	PERF__	CSG__	CMPPRF	Assemble 3-1/8" Select Fire Gun Carrier w/ 311T w/ 23 gram Charges w/ 4 JSPF, 120 deg phasing w/ Gamma Gun on 3-1/8" Slick Gun. PU Lubricator and Pressure Test Lubricator to 1000 psi. Held Pressure.
	09:00 - 10:00	1.00	PERF__	CSG__	CMPPRF	RIH w/ 3-1/8" Slick Gun Carrier w/ 311T w/ 23 gram Charges w/ 4 JSPF, 120 deg phasing w/ Gamma Gun. Get on Depth. Perforate f/ 8368' - 8391'. POOH with Wire Line. Fluid Level @ surface.
	10:00 - 11:00	1.00	PERF__	CSG__	CMPPRF	Arm and PU Perforating Gun. RIH and Reshoot Perforations w/ 3-1/8" Slick Gun Carrier w/ 311T w/ 23 gram Charges w/ 4 JSPF, 120 deg phasing w/ Gamma Gun. Get on Depth. Perforate f/ 8341' - 8363'. POOH with Wire Line. Fluid Level @ surface.
	11:00 - 12:00	1.00	PERF__	CSG__	CMPPRF	Arm and PU Perforating Gun. RIH and Reshoot Perforations w/ 3-1/8" Slick Gun Carrier w/ 311T w/ 23 gram Charges w/ 4 JSPF, 120 deg phasing w/ Gamma Gun. Get on Depth. Perforate f/ 8302' - 8304' and 8313' - 8316'. POOH with Wire Line. Fluid Level @ surface.
	12:00 - 13:00	1.00	SETREL	PLUG	CMPPRF	RIH w/ Junk Basket and 4.650 OD Gauge Ring. Fluid Level @ surface. RIH Get on Depth. Run Junk Basket and Gauge Ring to 8420' with no problems going through Casing and Perforations. POOH.
	13:00 - 14:00	1.00	SETREL	PLUG	CMPPRF	Assemble CIBP. RIH w/ CIBP. Fluid Level @ surface. RIH Get on Depth. Set CIBP @ 8410'. POOH.
	14:00 - 15:00	1.00	SETREL	PLUG	CMPPRF	RIH w/ Wireline Cement Dump Bailer. Dump Bail 10' Cement on top of CIBP @ 8410'. POOH. Top of cement @ 8400' on Top of CIBP Set @ 8410'.
	15:00 - 15:30	0.50	RURD__	ELEC	CMPPRF	Rig down Baker Atlas Perforating Equipment. Total of 308 holes perforated from 8302' to 8391'. CIBP Set @ 8410'. Top of Cement (PBDT) @ 8400' Dump Bailed on CIBP.
	15:30 - 17:00	1.50	RUNPUL	TBG__	RODOP	RIH w/ 2-7/8" Reentry Guide, 2-7/8" 'R' Nipple (2.257" ID) Profile L-80 Nipple, 1 Jt 2-7/8" L-80 Tubing, 2-7/8" x 5-1/2" Arrow Set 1-X Packer (2.375" ID), 2-7/8" - T-2 On/Off Tool w/ 2.31" ID 'X' Profile L-80 Seal Nipple, and 265 Jts 2-7/8" L-80 Production tubing. Landed Bottom of Assembly @ 8258'. Packer Set @ 8225' in 14 pts Compersion. 'R' Nipple @ 8257'. Reentry Guide @ 8258'. On/Off Tool w/ 'X' Profile @ 8218'. Perforations f/ 8302 - 8391'. Packer Set 77' above Top Perforation. Reentry Guid Set 44' above Top Perforation. PBDT 9' below Bottom Perforation.
	17:00 - 17:30	0.50	RUNPUL	TBG__	CMPPRF	Reverse Circulate 15 bbls water to clear Annulus. Set Packer @ 8225' (Tubing Talley) on 265 Jts 2-7/8" L-80 Tubing.
	17:30 - 18:00	0.50	SECURE	WELL	CMPPRF	Shut-in and Secure Well. SDFN.
6/20/2006	07:30 - 08:00	0.50	SAFETY	MTG__	CMPPRF	Held Safety Meeting. Check Tubing Pressure = 0 psi. Open Well up.
	08:00 - 08:30	0.50	RUNPUL	TBG__	CMPPRF	Load Tubing took 1 bbl to load Tubing. Pressure Formation to 300 psi. Well Bled off 100 psi in 1 minute. Bleed off Tubing Pressure. Release On/Off Tool. PUH 8' off On/Off Tool.
	08:30 - 10:30	2.00	CIRC__	CFLD	CMPPRF	Start Pumping 2% KCL Water with Corrosion Inhibiting Packer Fluid Direct (Down Tubing) with reverse unit. Broke circulation. Pumped 200 bbls 2% KCL Water with Corrosion Inhibiting Packer Fluid down Tubing and Back up Casing Annulus. Circulated Hole Completely until Clean and Packer Fluid Completely filled Annulus. Latch on to On/Off Tool.
	10:30 - 12:30	2.00	NUND	BOPE	CMPPRF	ND BOP and installed wellhead with flanged 5000# tree assembly. All trim in valves, choke and fittings are high H2S and CO2 resistant.
	12:30 - 17:00	4.50	SWAB__	TBG__	CMPPRF	RU Swab. RIH w/ Swab. Initial Fluid Level @ Surface. Made 12 Swab

Operations Summary Report

Legal Well Name: UNIVERSITY BL NO 6 (STRAWN)

Common Well Name: UNIVERSITY BL NO 6 (STRAWN)

Event Name: RECOMPLETION

Start: 5/25/2006

Spud Date:

Contractor Name: KEY ENERGY SERVICES

Rig Release:

Group:

Rig Name: KEY ENERGY SERVICES

Rig Number: 442

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/20/2006	12:30 - 17:00	4.50	SWAB	TBG	CMPPRF	runs. Recovered 42 bbls Water Swabbing. Final Fluid Level @ 7500' from Surface. RD Swab.
6/21/2006	17:00 - 17:30	0.50	SECURE	WELL	CMPPRF	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG	CMRUN	Held safety meeting. Tubing = 0 psi.
	08:00 - 08:30	0.50	SWAB	TBG	CMPPRF	RU Swab. RIH w/ Swab. Initial Fluid Level @ Surface. Made 12 Swab runs. Recovered 42 bbls Water Swabbing. Final Fluid Level @ 7500' from Surface. RD Swab.
	08:30 - 09:30	1.00	PUMP	ACID	CMSTMT	RU Cudd Acid Pump Truck. Test Lines to 5000 psi. Held Pressure. Start Pumping 15% HCL Acid. Pumped 42.5 bbls Acid and Caught pressure. Formation Broke down @ 1908 psi. Pump 3000 gals 15% HCL Acid @ 3.5 BPM @ 3452 psi. When Acid hit Perforations Pressure Fell to 0 psi and Increased Rate to 7 BPM @ 0 psi. Displace Acid to Bottom Perforations with 24 bbls Water @ 7 bpm @ 0 psi. ISDP = Vacuum. RD Cudd Acid Pump. TOTAL LOAD to Recover 100 bbls.
6/22/2006	09:30 - 17:00	7.50	SWAB	TBG	CMPPRF	RU Swab. RIH w/ Swab. Initial Fluid Level @ 7700' from Surface. Made 13 Swab runs. Recovered 1/2 bbls Water Swabbing. Final Fluid Level @ 8200' from Surface. RD Swab.
	17:00 - 17:30	0.50	SECURE	WELL	CMPPRF	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG	CMRUN	Held safety meeting. Tubing = 0 psi. Tubing on Vacuum.
	08:00 - 19:00	11.00	SWAB	TBG	CMPPRF	RU Swab. RIH w/ Swab. Initial Fluid Level @ 8100' from Surface. Made 18 Swab runs. Recovered 10 bbls Water Swabbing. Final Fluid Level @ 7900' from Surface (Scattered Fluid from 7900' to Packer @ 8220'). RD Swab. Well Showed a little gas after 3 swab runs. Well Started Flowing after 12 swab runs had to close wing valve to get swab down and continue to swab well. Recovered 10 bbls load water Swabbing Today.
6/23/2006	19:00 - 19:30	0.50	SECURE	WELL	CMPPRF	Shut-in and Secure Well. SDFN.
	07:30 - 08:00	0.50	SAFETY	MTG	CMRUN	Held safety meeting. Tubing = 140 psi.
	08:00 - 16:00	8.00	SWAB	TBG	CMPPRF	RU Swab. RIH w/ swab. Tag fluid @ 7000'. Fluid scattered to R/N. Recovered approximately 0.5 bbls of water. Made swab run each hour for the next 3 hrs. Tag fluid @ 8100' but not solid. Recovery small. SI well for PBU. Take pressure reading & prepare to swab. RIH w/ swab. Tag fluid @ 8100'. Fluid scattered to R/N. Made 2 more swab runs over next 2 hrs. Very little fluid recovered. SI well for PBU over weekend.
6/26/2006	16:00 - 17:00	1.00	RURD	RIG	RDMO	RDMO Pulling Unit. SDFWE.
	08:00 - 10:00	2.00	CLTBG	RURD	OTHER	Held Safety Meeting. RU Coil Tubing and Nitrogen Unit.
	10:00 - 11:00	1.00	CLTBG	RURD	OTHER	RU Flowlines. Load Coil Tubing with Nitrogen and Foam. Pressure Test Lines and CT BOPE.
	11:00 - 15:30	4.50	CLTBG	N2LT	OTHER	RIH w/ Coil tubing Circulating to 8401'. Circulated Well with Nitrogen.
	15:30 - 17:00	1.50	CLTBG	N2LT	OTHER	POOH w/ Coil Tubing while Well Unloading with N2.
	17:00 - 19:00	2.00	CLTBG	RURD	OTHER	RD Coiled Tubing Equipment, Flow back lines, and Nitrogen Unit. Start well Flowing to Production Facilities.

Marathon Oil Company

Page 1 of 1

Perforating Report

Legal Well Name: UNIVERSITY BL NO 6 (STRAWN)
Common Well Name: UNIVERSITY BL NO 6 (STRAWN)
Event Name: RECOMPLETION

Spud Date:
Report Date: 6/19/2006
End:

Report #: 1
Start: 5/25/2006

General

Contractor: BAKER ATLAS
Job Method: PERFORATE
Perforated Assembly: PRODUCTION CASING

Supervisor: W. Holdridge
Conveyed Method: WIRELINE

Initial Conditions

Fluid Type: FRESH WATER
Surf. Pressure: (psi)
Fluid Level TVD: (ft)
Hydro Pressure: 3,597 (psi)
Condition: NEUTRAL

Fluid Density: 8.34 (ppg)
Res. Pressure: 3,597 (psi) @ 8,302.0 (ft)
Fluid Head TVD: 8,302.0 (ft)
Pressure Diff.: (psi)

Summary

Gross Int.: 8,302.0 to 8,391.0 (ft)
of Int.: 1
Total Shots: 308
AV Shot Dens.: 6.16 (/ft)
Start Date: 6/19/2006
End Date: 6/19/2006
Net Shot: 50.0 (ft)
Final Surface Pressure: (psi)
Final Surf. Pres. Date: 6/19/2006
Time: 09:00
Time: 15:30

Perforated Intervals

Date/ Time	Formation / Pool Name	CCL @ (ft)	CCL-TS (ft)	Top (ft)	Base (ft)	S/(ft)	Add Shot/ Misfires	Diam. (in)	Carr. Type / Carr. Manuf.	Cr. Size (in)	Phasing (")	Charge Desc. / Charge Manuf.	Cg. Size (g)	Type / Reason	Misrun
6/19/2006 11:00	STRAWN	/ 8,293.0	9.00	2.00 8,302.0	8,304.0	8.00	/	0.380	Slick Gun	/	3.125 120.000	/	/	/	/
6/19/2006 11:00	STRAWN	/ 8,293.0	20.00	3.00 8,313.0	8,316.0	8.00	N /	0.380	Slick Gun	/	3.125 120.000	/	/	/	N
6/19/2006 10:00	STRAWN	/ 8,332.0	9.00	22.00 8,341.0	8,353.0	8.00	N /	0.380	Slick Gun	/	3.125 120.000	/	/	/	N
6/19/2006 09:00	STRAWN	/ 8,359.0	9.00	23.00 8,368.0	8,391.0	4.00	N /	0.380	Dual Fire Gun	/	3.125 120.000	/	/	/	N