



# Summary Report

**Major Rig Work Over (MRWO)**  
**Well Conversion**  
**Job Start Date: 7/14/2010**  
**Job End Date: 1/20/2011**

Well Name Union Pacific 20-29	Lease Union Pacific	Field Name Rangely	Business Unit Mid-Continent/Alaska	
Ground Elevation (ft) 5,323.00	Original RKB Elevation (ft) 5,336.00	Current RKB Elevation (ft) 5,336.00	Mud Line Elevation (ft)	Water Depth (ft)

**Report Start Date: 7/14/2010**

Comment

MOVE RIG FROM UP 73 X 29 TO UP 20 X 29.  
 SAFETY MEETING; COMPLETE REQUIRED PERMITS, CHECK LOCATION FOR RU, TIF, PPE  
 MIRU ASEC #6  
 ND WELLHEAD  
 NU BOPE & FUNCTION TEST  
 RU RIG FLOOR AND TBG EQUIPMENT. SWIFN AND SECURE

**Report Start Date: 7/15/2010**

Comment

SAFETY MEETING; RIGGING UP CENTRILIFT, OVERHEAD LIFTS, WELL CONDITIONS, LAYING DN EQUIPMENT, \*\* HEAT\*\* WATCH FOR SIGNS OF DEHYDRATION, TIF, PPE  
 TBG PRESSSS 150 PSI. CSG 250 PSI. BLEED WELL DN TO 0 PSI.  
 MIRU CENTRILIFT SPOOLER & LD TRAILER.  
 POOH WITH 177 JTS DYB 2.875 TBG, DRAIN, 2 JTS DYB, CHECK, 2 JTS DYB, TBG SUB, X/O, R-3 PUMP, SEAL, MOTOR. RETURNED TO CENTRILIFT.  
 POWER WASH RIG FLOOR AND WORK AREA DUE TO GAS UNDER PLUG DRAIN, (WORK AREA OILY & SLIPPERY )  
 PU 7" C/O ASSEMBLY.  
 RIH TO 5757' KB. NO OBSTRUCTIONS.  
 POOH WITH 51 STANDS. LEFT 41 STANDS IN FOR KILL STRING (EOT @ 2600 FT) SWIFN & SECURE

**Report Start Date: 7/16/2010**

Comment

SAFETY MEETING; WELL CONDITIONS, PULLING TBG, PICKING UP TOOLS, PINCH POINTS, RIGGING UP WIRELINE, JSA'S, TIF, PPE  
 TBG & CSG EQUALIZED @ 200 PSI. BLEED DN TO 0 PSI.  
 POOH WITH KILL STRING & LD C/O ASSEMBLY.  
 PU MILLER TOOLS; LOC-SET PACKER & ON/OFF TOOL WITH 1.875 PROFILE.  
 RIH WITH 183 JTS 2.875" BARE TBG (RE-RUN) ATTEMPT TO SET PACKER @ 5721' NOT SUCCESSFUL, PULL UP 1 JT WON'T SET, PULL 4 JTS PACKER SET. TBG IN HOLE = 178 JTS BARE 2.875", 5.50 X 2.875 X 1.875 F PROFILE LH ON/OFF TOOL, LOC-SET PACKER. PACKER @ 5574' KB, ON/OFF TOOL @ 5563'.  
 MI RU PLS. REVIEW JSA'S, RIH WITH GR POOH LD GR, MU 1.875" FWG TBG PLUG SET SAME IN PROFILE @ 5558' WL MEASUREMENT.  
 UNLATCH ON/OFF TOOL & PU. MI R&M RENTALS ROLL HOLE WITH 250 BBLs PACKER FLUID.  
 LATCH PACKER ON/OFF SKIRT SPACE OUT & LAND TBG ON HANGER. TEST CSG & PACKER TO 800 PSI. HELD 15 MIN. GOOD TEST. RDMO R&M RENTALS  
 RIG DN RIG FLOOR & TBG.EQUIPMENT. ND BOPE  
 MI VETCO GRAY & NU WELLHEAD. TEST VOID TO 3K.  
 SDFD

**Report Start Date: 7/19/2010**

Comment

SAFETY MEETING; COMPLETE DRILLS, TABLE TOP DRILL ON MAN DN, & HURT. TIF, PPE  
 RDMO & MOVE TO MC HAGOOD 14X  
 OPS SUSPENDED UNTIL AFTER ADJACENT NEW WELL COMPLETIONS.

**Report Start Date: 12/9/2010**

Comment

SAFETY MEETING. TOPIC- SATTE OF MIND.  
 WAIT ON LOC. PREP. SERVICE RIG AND EQUIP.  
 ROAD RIG TO LOC.  
 SPOT IN AND RIG UP. LEAVE WELL SHUT IN. SHUT DOWN DUE TO HAUL TRUCKS MOVING RIG TO WILSON CREEK. TRUCKS WILL RETURN IN THE AM.

**Report Start Date: 12/10/2010**

Comment

SAFETY MEETING. TOPIC-SPOTTING IN EQUIP. REVIEW JSA.  
 SPOT IN AND RIG UP AUX. EQUIP.  
 N/D WELLHEAD.  
 N/U BOP, RIG UP FLOOR AND EQUIP.  
 RELEASE FROM PROFILE W/ ON/OFF TOOL. CIRC PKR FLUID TO TANK.  
 RIG UP PLS. RIH TO PROFILE @ 5561' LATCH ONTO AND PULL PRONG. POOH. RIH LATCH ONTO AND PULL PLUG. POOH. RIG DOWN. TBG ON VACUUM.  
 RIG UP SWIVEL. RELEASE PKR, LAY DOWN 1 JT. DRAIN UP SWIFN.

**Report Start Date: 12/13/2010**

Comment

SAFETY MEETING. TOPIC- LAYING DOWN TBG. PERFORM WEEKLY DRILLS.  
 CHECK WELL PRESSURE, CSG 0-PSI, TBG 250-PSI. KILL TBG W/ 10 BBLs 103 BRINE WATER. OPEN WELL.  
 POOH LAYING DOWN 188 JTS 2-7/8" BARE PRODUCTION TBG AND 7' LOC-SET PKR.  
 UNLOAD TALLY AND PICK UP 6-1/8" BIT, 4 4-3/4" DRILL COLLARS AND 22 JTS 2-7/8" DRILL PIPE.



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Comment  
UNLOAD AND TALLY 2-7/8" WORK STRING. RIH W/ BHA PICKING UP 66 JTS 2-7/8" WORK STRING TO 3000'. DRAIN UP SWIFN.  
**Report Start Date:** 12/14/2010

Comment  
SAFETY MEETING. TOPIC- PICKING UP TBG. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG 0-PSI. OPEN WELL. FINISH RIH W/ 6-1/8" BIT FROM 3000' PICKING UP WORK STRING. TAG @ 5822' CSG SHOE @ 5757' RIG UP SWIVEL.  
TRY TO BREAK CIRC. PUMP 600 BBLs FRESH WATER. SLIGHT CIRC. LAY DOWN SWIVEL. PULL TO SHOE.  
CALL FOR SECOND PUMP. SPOT IN AND RIG UP SECOND PUMP. DRAIN UP SWIFN.  
**Report Start Date:** 12/15/2010

Comment  
SAFETY MEETING. TOPIC- RUNNING 2 PUMPS SAME TIME. REVIEW JSA  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE @ 5757' TO TAG @ 5822' RIG UP SWIVEL.  
BREAK CIRC USING TWO PUMPS. PUMP 400 BBLs TO GET GOOD CIRC.  
DRILL OUT BRIDGES @ 5822', 5839', 5891', 5915' AND 5937' C/O SOLID FORMATION FROM 5986' TO 6018' HOLE CAVING. CIRC CLEAN.  
RIG DOWN SWIVEL, PULL TO SHOE, DRAIN UP. PUMP FREEZE BLANKETS. SWIFN.  
**Report Start Date:** 12/16/2010

Comment  
SAFETY MEETING. TOPIC-COLD WEATHER. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE @ 5757' TAG AND ROTATE THROUGH BRIDGE @ 5822' CON'T RIH TAG SOLID @ 6018' RIG UP SWIVEL.  
BREAK CIRC. PUMP 400 BBLs TO GET GOOD CIRC.  
CLEAN OUT SOLID FORMATION FROM 6018' TO 6080' SOME CAVING. CIRC CLEAN.  
PULL TO SHOE, DRAIN UP, PUMP FREEZE BLANKETS, SWIFN  
**Report Start Date:** 12/17/2010

Comment  
SAFETY MEETING. TOPIC-SLIPS TRIPS AND FALLS. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE @ 5757' TO TAG @ 5995' 125' HIGHER THAN PREVIOUS DAY'S C/O DEPTH. RIG UP SWIVEL.  
BREAK CIRC. 300 BBLs.  
CLEAN OUT OPEN HOLE FROM 5955' TO 5986' SEVERE CAVING. DID NOT GET BACK TO PREVIOUS C/O DEPTH OF 6018' CIRC CLEAN.  
RIG DOWN SWIVEL, PULL TO SHOE, DRAIN UP SWIFN.  
**Report Start Date:** 12/20/2010

Comment  
SAFETY MEETING. TOPIC- BAD WEATHER. PERFORM WEEKLY DRILLS. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE @ 5757' TAG @ 5923'  
RIG UP SWIVEL. BREAK CIRC, 150 BBLs TO GET GOOD CIRC.  
C/O SOLID FILL FROM 5923' TO 6065' CIRC CLEAN  
RIG DOWN SWIVEL. PULL TO SHOE, DRAIN UP SWIFN.  
**Report Start Date:** 12/21/2010

Comment  
SAFETY MEETING. TOPIC-SAFE DRIVING. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH DROM CSG SHOE, 5757' TAG @ 5822' RIG UP SWIVEL.  
BREAK CIRC. ROTATE THROUGH TIGHT SPOT @ 5822' CON'T RIH TAG @ 5859' DRILL THROUGH 1' BRIDGE, CON'T RIH TAG SOLID @ 5955' C/O SOLID FILL FROM 5955' TO 6018' HOLE CAVING. CIRC CLEAN.  
RIG DOWN SWIVEL. PULL TO SHOE, DRAIN UP PUMP AND LINES, PUMP FREEZE BLANKETS. SWIFN.  
**Report Start Date:** 12/22/2010

Comment  
SAFETY MEETING. TOPIC- MUDDY WORKING CONDITIONS. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE @ 5757' TAG AND FELL THROUGH SPOT @ 5822' CON'T RIH TAG SOLID @ 6018' RIG UP SWIVEL.  
BREAK CIRC 100 BBLs TO GET GOOD CIRC.  
CLEAN OUT OPEN HOLE FROM 6018' TO 6112' SOLID FILL. CIRC CLEAN. RIG DOWN SWIVEL.  
DECIDE TO TRIP FOR BIT. POOH TO 2000' DRAIN UP SWIFN.  
**Report Start Date:** 12/23/2010

Comment  
SAFETY MEETING. TOPIC- TRIPPING PIPE. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. POOH FROM 2000' INSTALL NEW BIT.  
RIH W/ TBG, DRILL PIPE AND COLLARS TO CSG SHOE @ 5757' SWIFN.  
SECURE WELL. PERFORM HAZARD HUNT. ATTEND CHEVRON CONTRACTOR END OF YEAR SAFETY MEETING.  
OPS SUSPENDED UNTIL AFTER HOLIDAY BREAK. RETURN JAN 3rd  
**Report Start Date:** 1/3/2011

Comment  
SAFETY STAND DOWN W/ ALL AESC CREWS AFTER HOLIDAY BREAK. TOPIC- STATE OF MIND.



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Comment

TRAVEL TO LOC. SAFETY MEETING. TOPIC EXTREME COLD. REVIEW JSA. PERFORM WEEKLY DRILLS.  
START RIG AND AUX EQUIP. FILL TANKS W/ HOT WATER. THAW OUT FROZEN CIRC LINES.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE @ 5757' TAG AND ROTATE THROUGH BRIDGE @ 5822' TAG SOLID @ 5986' DUE TO TIME OF DAY DID NOT BREAK CIRC AND START C/O.  
PULL TO SHOE, FILL LINES W/ 10# BRINE WATER. SWIFN.  
**Report Start Date:** 1/4/2011

Comment

SAFETY MEETING. TOPIC-SLIPS TRIPS AND FALLS. REVIEW JSA.  
START EQUIP, CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE @ 5757' TO 5986' RIG UP SWIVEL.  
TRY TO BREAK CIRC. COULD NOT BREAK CIRC DUE TO PUMP AND LINES FREEZING UP. NO HOT WATER AT PLANTS.  
RIG DOWN SWIVEL, PULL TO SHOE  
FILL OUT HOT WORK PERMIT. THAW OUT PUMP AND LINES. FILL PUMP AND LINES W/ 10# BRINE WATER. SWIFN.  
CALL HOT OILER TO HEAT WATER FOR USE IN THE AM.  
**Report Start Date:** 1/5/2011

Comment

SAFETY MEETING. TOPIC- WORKING W/ TWO PUMPS. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE @ 5757' TO TAG @ 5892' RIG UP SWIVEL.  
BREAK CIRC. 200 BBLS TO GET GOOD CIRC.  
CLEAN OUT OPEN HOLE FROM 5982' TO 6112' HOLE CAVING FROM 6090 TO 6112' REDRILL THIS SECTION SEVERAL TIMES. CIRC CLEAN. RIG DOWN SWIVEL.  
PULL TO SHOE, DRAIN UP SWIFN.  
**Report Start Date:** 1/6/2011

Comment

SAFETY MEETING. FROST BITE. REVIEW JSA.  
CHECK WELL PRESSURE. TBG AND CSG ON A VACUUM. OPEN WELL. RIH FROM CSG SHOE 5757' TO TAG @ 5986' RIG UP SWIVEL.  
BREAK CIRC, 150 BBLS  
CLEAN OUT OPEN HOLE FROM 5986' TO 6112' SEVERE CAVING. CIRC CLEAN, RIG DOWN SWIVEL.  
PULL TO SHOE, DRAIN UP SWIFN.  
**Report Start Date:** 1/7/2011

Comment

SAFETY MEETING. TOPIC- SLIPS TRIPS AND FALLS. REVIEW JSA.  
SERVICE RIG AND EQUIP.  
ATTEND RIG #4 IFO LUNCHEON.  
**Report Start Date:** 1/10/2011

Comment

SAFETY MEETING; COMPLETE DRILLS, FIRE, BOPE, SPILL, DISCUSS JOB PLAN, JSA'S, WEATHER CONDITIONS -21 BELOW, FROST BITE QUICKLY, TIF, PPE  
START RIG EQUIPMENT, -21 BELOW & WARM UP SAME, CHECK PRESS TBG & CSG VAC. THAW BOPE .  
RIH FROM CSG SHOE 5757' & TAG @ 6080'.  
RU POWER SWIVEL & ESTABLISH CIRCULATION WITH 170 BBLS.  
CLEANOUT OPEN HOLE FROM 6080' TO 6331'.  
CIRCULATE CLEAN  
HANG BACK POWER SWIVEL & POOH WITH 10 STANDS TO GET ABOVE SHOE. @ 5757  
SWIFN DRAIN UP EQUIPMENT PUMP FREEZE BLANKET  
**Report Start Date:** 1/11/2011

Comment

SAFETY MEETING; DISCUSSED JOB PLAN, WEATHER CONDITIONS, -24 BELOW, JSA'S, FROSTBITE, ICE, STARTING EQUIPMENT, TIF, PPE  
START EQUIPMENT, CHANGEOUT STARTER ON PUMP  
TBG PRESS 0 CSG 0. RIH TAG @ 6270'. LOST 61 FT FROM 1-10-11  
RU POWER SWIVEL & ESTABLISH CIRCULATION WITH 160 BBLS WATER.  
START CLEAN OUT @ 6270'. C/O TO 6315'. CIRCULATE CLEAN. HANG PRW SWIVEL BACK.  
POOH WITH 20 JTS EOT @ 5701'. PUMP FREEZE BLANKET SWIFN  
**Report Start Date:** 1/12/2011

Comment

START EQUIPMENT, SAFETY MEETING; DISCUSS JOB PLAN, WEATHER -13 BELOW, JSA'S, TIF, PPE  
CHANGE OUT HYDRAULIC HOSE FOR POWER SWIVEL,  
TBG PRESS 0 CSG 0. RIH & TAG @ 6299'.  
RU POWER SWIVEL & ESTABLISH CIRCULATION WITH 130 BBLS.  
CLEANOUT FROM 6299' ( 16' FILL OVERNIGHT FROM 1-11-11 ) TO 6406'.  
CIRCULATE CLEAN  
HANG BACK POWER SWIVEL & POOH TO SHOE WITH 22 JTS  
SWIFN & FREEZE BLANKET  
**Report Start Date:** 1/13/2011



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**Comment**  
SAFETY MEETING; DISCUSSED JOB PLAN, CLEANOUT OPERATIONS, PULLING TBG, JSA'S, TIF, PPE  
TBG PRESS 0 CSG 0 PSI. OPEN WELL RIH WITH 22 JTS SLIGHTLY TAGGED 2 LEDGES, CONTINUED IN HOLE TAGGED UP @ 6406'. \*\*\*\*\*NOTE 2 LEDGES IN MENTION ARE 5986' & 6270'. \*\*\*\*\*  
ESTABLISH CIRCULATION WITH 140 BBLs  
CLEANOUT TO 6413'. \*\*\*NOTE: DISCUSSED CLEANOUT DEPTH WITH ROY CRAMER & HE ALLOWED WE ARE DEEP ENOUGH !!! \*\*\*\* CIRCULATE CLEAN  
HANG BACK SWIVEL POOH WITH TBG & LAY DN DRILL PIPE & COLLARS.  
SWIFN, DRAIN [UMP & LINES & FREEZE BLANKET  
**Report Start Date:** 1/14/2011

**Comment**  
SAFETY MEETING; DISCUSS JOB PLAN, LOADING OUT EQUIPMENT, WEATHER CONDITIONS, PICKING UP TOOLS, WIRELINE WORK, TIF, PPE  
LOAD OUT DRILL PIPE & COLLARS,  
TBG 0 PSI, CSG 0 PSI. PU BHA AS FOLLOWS; WIRELINE ENTRY GUIDE, 2 7/8" BOX X 2 3/8" PIN, 2 JTS 2 7/8" FIBERGLASS WRAPPED TBG IPC TK-15, 7" LOC-SET MILLER PACKER, 6' X 2 7/8" FIBERGLASS WRAPPED TBG SUB IPC TK-15, EXTENDED ON/OFF TOOL.  
RIH AS FOLLOWS; BHA, 158 JTS 2 7/8" TBG SET PACKER @ 5618'. SET GOOD !  
LOAD HOLE & TEST PACKER TO 750 PSI  
MI PLS REVIEW JSA'S. RU PLS RIH SET BAKER 1.875" FWG TBG PLUG IN PROFILE NIPPLE @ 5608'. POOH RDMO PLS.  
RELEASE OFF OF ON & OFF TOOL.  
POOH LAYING DN 138 JTS WORKSTRING. LEAVING 20 STANDS IN DERRICK FOR SETTING RBP. TO ALLOW CUTTING OFF WELLHEAD ON TUESDAY.  
SWIFN & SECURE  
**Report Start Date:** 1/17/2011

**Comment**  
SAFETY MEETING. TOPIC- RIGGING UP WIRELINE TRUCK. REVIEW JSA.  
SAFETY MEETING W/ WIRELINE CREW. TOPIC- OVERHEAD LOADS. REVIEW JSA.  
SPOT IN AND RIG UP BLACK WARRIOR WIRELINE TRUCK.  
RIH W/ CBL. LOG HOLE FROM 5600' TO SURFACE. TOC @ 2200' RIG DOWN WIRELINE TRUCK.  
RIH W/ RBP TO SET @ 1200'  
POOH.  
RIG DOWN FLOOR, N/D BOP. N/U TBG TOP FLANGE.  
CLEAN AND PREP CELLAR FOR ENTRY IN THE AM. WORK SURFACE PIPE VALVE OPEN. 5-PSI. BLEED OFF PRESSURE. SWIFN.  
**Report Start Date:** 1/18/2011

**Comment**  
SAFETY MEETING W/ RIG CREW AND VETCO GRAY. TOPIC- REPLACING TBG HEAD. REVIEW BOTH JSA'S  
N/D RECTOR 2K TBG HEAD.WELD TBG STUB, N/U NEW VETCO 11" X 7-1/6" 3K TBG HEAD. TEST VOID TO 2000-PSI.  
N/U BOP, RIG UP FLOOR.  
RIH W/ RETRIEVING HEAD TO PLUG @ 1200' RELEASE PLUG.  
POOH LAYING DOWN 40 JTS 2-7/8" WORK STRING AND PLUG. UNLOAD AND TALLY NEW 2-7/8" F.L. TBG. SWIFN.  
**Report Start Date:** 1/19/2011

**Comment**  
SAFETY MEETING. TOPIC- PICKING UP TBG AND WORKING W/ TBG TORQUE SYSTEM. REVIEW JSA.  
PICK UP AND RIH W/ EXT NECK SLICK SKIRT, 1 JT 2-7/8" FGW F.L. TBG AND 7" PS1 PKR.  
PICK UP AND RIH W/ 175 JTS NEW 2-7/8" F.L. TBG TO PROFILE @ 5607. SPACE OUT, ENGAGE PROFILE TEST TBG TO 700-PSI. GOOD TEST.  
CIRC WELL W/ 2 DRUMS CRW 132 PKR FLUID MIXED W/ 220 BBLs HEATED FRESH WATER. PUMP FREEZE BLANKETS, SWIFN.  
**Report Start Date:** 1/20/2011

**Comment**  
SAFETY MEETING. TOPIC-FROST BITE. REVIEW JSA.  
INSTALL SPACE OUT PUPS, ENGAGE ON/OFF PROFILE @ 5607' SET PS1 PKR @ 5568' W/ 15,000# COMPRESSION, LAND ON HANGER. RIG DOWN FLOOR, N/D BOP  
PICK UP TBG AND REMOVE HANGER, INSTALL PLUG BUSHING N/U INJ TREE. TEST VOID TO 1800-PSI. GOOD TEST.  
RIG UP R&M TEST CSG TO 750-PSI FOR 15 MIN, NO BLEED OFF. COGCC DID NOT WITNESS THIS TEST, THEY WILL WITNESS MIT NEXT WEEK.  
RIG DOWN PUMP AND LINES, RIG DOWN W/O UNIT, CLEAN LOC, MOVE AND SPOT IN ON UP 154Y29  
FINAL REPORT.