

**US ROCKIES REGION**  
**Operation Summary Report**

Well: **MARKHAM 01**

Spud date: 5/23/1983

Project: COLORADO-WELD-NAD83-UTM13

Site: MARKHAM 01

Rig name no.: LEED 723/723

Event: RECOMPL/RESEREVEADD

Start date: 12/6/2016

End date:

Active datum: RKB @4,961.99usft (above Mean Sea Level)

UWI: SW/NW/0/4/N/68/W/15/0/0/6/PM/N/1,650.00/W/0/990.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
11/29/2016	-							
12/5/2016	13:00 - 15:30	2.50	FRAC	35	A	P		MIRU, SUMMIT SLICKLINE, RIH FISHED TOOLS @ 6655, TAG SAND AT 6763 RDMO SLICKLINE. MI SPOT IN LEED RIG 723, SPOT IN EQUIPMENT.
	15:30 - 17:00	1.50	FRAC	30	A	P		ROAD RIG TO LOCATION, SPOT IN EQUIPMENT.
	17:00 - 18:00	1.00	FRAC	30	G	P		CREW TO YARD
12/6/2016	6:00 - 8:00	2.00	FRAC	30	G	P		HAD A MEET & GREAT WITH THE CREW AT THEIR YARD. CREW TRAVE TO LOCATION,INSPECT & START EQUIPMENT, AND DISCUSS OBJECTIVES FOR THE DAY THROUGH THE JSA.
	8:00 - 10:30	2.50	FRAC	30	A	P		RIG UP GUY OUT, RIG UP PUMP & TANK, HOOK UP SAFETY CABLES ON HARD LINES.
	10:30 - 13:30	3.00	FRAC	30	E	P		BLOW DOWN WELL, HAD TO BLOW IT DOWN SLOW BECAUSE SAND HAULERS AND A FRAC HEATER WERE ON LOCATION, HAD TO SHUT THEM DOWN WHILE WE BLEW DOWN WELL & KILL IT. PUMPED 40 BBLs DOWN TUBING AT 2 BPM 0 PSI.
	13:30 - 16:00	2.50	FRAC	30	F	P		RELEASE PACKER & NU BOP's ON A 5K WELLHEAD, FUNCTION TEST BOP's. SWI SDFN.
	16:00 - 17:00	1.00	FRAC	31	F	P		DRAINED EQUIPMENT, RIG CREW DIDN'T HAVE SOME FITTINGS & CONNECTIONS TO FINISHED HOOKING UP THE PUMP.
	17:00 - 17:30	0.50	FRAC	30	G	P		CREW TO YARD
	17:30 - 17:30	0.00	FRAC	52	I	P		0 PRESSURE, LEFT VALVE OPEN WHILE WORKING ON THE WELL, SHUT VALVE WHEN WE GO HOME.
12/7/2016	6:00 - 7:00	1.00	FRAC	30	G	P		CREW TRAVEL TO LOCATION
	7:00 - 8:30	1.50	FRAC	48		P		INSPECT & START EQUIPMENT, AND DISCUSS OBJECTIVES FOR THE DAY THROUGH THE JSA. WARM UP RIG & EQUIPMENT
	8:30 - 10:30	2.00	FRAC	31	I	P		TALLY OUT 211 JTS 2-3/8, 4.7#, J-55 EUE = 6650'
	10:30 - 12:30	2.00	FRAC	31	I	P		PU NC SN TIH WITH 215 JTS 2-3/8 4.7#, TAG SAND @ 6765.
	12:30 - 16:30	4.00	FRAC	31	H	P		STRIP ON WASHINGTON HEAD RUBBER, RU TUBING SWIVEL. TRIED TO ESTABLISH CIRCULATION, THAW OUT VALVE ON THE WORK TANK, AND THE MANIFOLD ON THE PUMP FROZE UP IT WAS COLD JUST HAD PROBLEMS, DRAINED UP EQUIPMENT SWI SDN.
	16:30 - 17:00	0.50	FRAC	30	G	P		CREW TO YARD
	17:00 - 17:00	0.00	FRAC	52	I	P		0 PRESSURE, LEFT VALVE OPEN ALL DAY, SHUT VALVE WHEN WE GO HOME
12/8/2016	6:00 - 7:00	1.00	FRAC	30	G	P		CREW TRAVEL TO LOCATION, INSPECT & START EQUIPMENT, AND DISCUSS OBJECTIVES FOR THE DAY THROUGH THE JSA.
	7:00 - 9:30	2.50	FRAC	30	E	P		STARTED RIG & EQUIPMENT, WARM UP HYDRAULICS AND BUIDL AIR. MAKE SURE EVERYTHING WORKS GOOD.

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	9:30 - 11:30	2.00	FRAC	31	H	P		PU 6 JTS TAG SAND @ 6765' RU CIRCULATING EQUIPMENT, ESTABLISH CIRCULATION WITH 50 BBLS 2 BPM @ 200 PSI, TAG HARD @ 6805' DRILL ON IT DOWN TO 6827' AND WAS GETTING A LOT OF CEMENT. (TALKED TO ANDY VAN WYK) TO LET HIM KNOW AND HE WAS <b>OK TO STOP @ 6827'</b> .
	11:30 - 13:00	1.50	FRAC	31	I	P		RU DOWN CIRCULATING EQUIPMENT, TOOHP WITH 216 JTS 2-3/8 4.7#, J-55 EUE.
	13:00 - 15:00	2.00	FRAC	31	I	P		PU 4.5" SCRAPER TIH WITH 215 JTS. WORKED SCRAPER ACROSS 6775 A FEW TIMES.
	15:00 - 16:30	1.50	FRAC	31	I	P		TOOH WITH 215 JTS 2-3/8, LD SCRAPER.
	16:30 - 17:30	1.00	FRAC	31	I	P		PU 4.5 RBP, TIH WITH 66 JTS 2-3/8. DRAINED EQUIPMENT, SWI SDFN
	17:30 - 18:00	0.50	FRAC	30	G	P		CREW TO YARD
	18:00 - 18:00	0.00	FRAC	52	I	P		0 PUT VALVE LEFT VALVE OPEN ALL DAY. SHUT VALVE WHEN WE GO HOME
12/9/2016	6:00 - 7:00	1.00	FRAC	30	G	P		CREW TO YARD, INSPECT & START EQUIPMENT, AND DISCUSS OBJECTIVES FOR THE DAY THROUGH THE JSA.
	7:00 - 8:00	1.00	FRAC	30	E	P		STARTED RIG & EQUIPMENT, WARM UP HYDRAULICS AND EQUIPMENT.
	8:00 - 9:30	1.50	FRAC	31	I	P		FINISH TRIPPING IN HOLE WITH 166 JTS 2-3/8 4.7#, J-55 EUE. <b>SET RBP @ 6580'</b>
	9:30 - 12:00	2.50	FRAC	31	H	P		<b>SET RBP AT 6580'. CIRCULATED GAS OUT, PRESSURE TEST CASING TO 1000 FOR 15 MINUTES HELD GOOD.</b> WENT TO OPEN THE BOP AND WAS NOT ABLE TO GET THEM TO OPEN, BECAUSE THEY WE'RE FROZE AFTER CIRCULATING. THAW THEM OUT.
	12:00 - 13:30	1.50	FRAC	31	I	P		PULL 30 STANDS, <b>DUMP 2 SX OF SAND ON TOP OF RBP</b> , FINISH TRIPPING OUT OF THE HOLE.
	13:30 - 16:00	2.50	FRAC	30	F	P		ND BOP's, ND WH. UNLAND CASING, PULL 74K TO UNLAND CASING. NU DOUBLE ENTRY EQUIPMENT & NU BOP's CHANGE TOOLS TO 1.25".
	16:00 - 17:00	1.00	FRAC	31	I	P		TIH WITH 15 JTS 1-1/4. 2.33# IJ. DRAINED EQUIPMENT, SWI SDFN
	17:00 - 18:00	1.00	FRAC	30	G	P		CREW TO YARD
	18:00 - 18:00	0.00	FRAC	52	I	P		0 PSI NO FLUID OR GAS, LEFT VALVE OPEN ALL DAY, SHUT VALVE WHEN WE GO HOME
12/10/2016	6:00 - 6:45	0.75	FRAC	30	G	P		CREW TRAVEL
	6:45 - 7:00	0.25	FRAC	48		P		MORNING SAFETY MEETING/JSA *REFER TO SAFETY SECTION FOR REPORT*
	7:00 - 8:00	1.00	FRAC	30	E	P		CHECK WELL PRESSURES, SICP @ 0PSI, BRADENHEAD PRESSURE @ 0PSI - NO FLUID
								START RIG & EQUIPMENT, WARM UP HYDROLOGICS ON RIG, GET RIG PUMP STARTED & WARMED UP
	8:00 - 8:30	0.50	FRAC	31	I	P		CONTINUE TRIPPING IN HOLE w/ 1.66" 2.3# J-55 10RD IJ TBG, <b>EOT @ 800'</b> w/ 25JTS, RU KELLY HOSE & ESTABLISH CIRCULATION w/ RIG PUMP

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	8:30 - 12:00	3.50	FRAC	31	I	P		RU KELLY HOSE & ESTABLISH CIRCULATION, PUMPING CONVENTIONALLY(DOWN TBG & UP ANNULAS), GOOD CIRCULATION, PUMPING AT 2BPM @ 700PSI, MUD RETURNS, PUMP TWO 1GAL. SWEEPS OF DF 20-20, CIRCULATE UNTIL HOLE CLEANS UP & NO GAS IS DETECTED, <b>RU SCHLUMBERGER CEMENTERS</b>
	12:00 - 13:00	1.00	FRAC	51	D	P		<b>EOT @ 800'</b> w/ 25JTS OF 1.66" 2.3# J-55 10RD IJ TBG, GET SCHLUMBERGER CEMENTERS SPOTTED IN & RIGGED UP, HAVE A HUDDLE-UP JSA, ESTABLISH RED ZONE, MAKE SURE ALL PERSONNEL & VEHICLES AROUND WELLHEAD & PUMP LINES ARE CLEAR, PRESSURE TEST LINES TO 1000 PSI FOR ONE MINUTE AND 3000 PSI FOR 3 MINUTES, <b>PUMP 5BBLs FRESH WATER, 10BBLs SMS FOLLOWED BY A 5BBL FRESH WATER SPACER, PUMP 205SX (54.8 BBLs) OF 15.8# 1.50 YIELD CLASS G CEMENT, FOLLOWED BY .5BBLs FRESH WATER DISPLACEMENT</b> , PUMP CEMENT AT 2BPM @ 1000PSI, GOOD CIRCULATION THOUGHOUT CEMENT JOB, WE DID GET CEMENT BACK TO SURFACE RIGHT AS WE FINISHED PUMPING, RIG SCHLUMBERGER OFF OF TUBING & HAVE THEM WASH UP THROUGH RIG LINE TO OUR MUD TANK <b>*ESTIMATED CEMENT FROM 0'-800'</b>
	13:00 - 13:30	0.50	FRAC	31	I	P		TOOH, LAY DOWN ALL 25JTS OF 1.66" 2.3# J-55 10RD IJ TBG ON TO TBG TRAILER
	13:30 - 15:30	2.00	FRAC	30	F	P		RD FLOOR & TONGS, ND BOP, ND DRILL FLANGE, SPEAR 4-1/2" CSG THROUGH DUAL ENTRY FLANGE, UNSCREW DUAL ENTRY FLANGE, SLACK OFF ON 4-1/2" CSG, ND DUAL ENTRY FLANGES, LAND 4-1/2" CSG IN SURFACE CSG w/ 80K, NU NEW 10K WELLHEAD w/ NEW 10K BALON VALVES & 10K XXH NIPPLES & FITTINGS, NU BOP, CHANGE PIPES RAMS FOR 2.375" TBG, FUCNCTION TEST, RU FLOOR & TONGS, CHANGE OVER TBG EQUIPMENT FOR 2.375" TBG
	15:30 - 16:30	1.00	FRAC	30	G	P		SWI, DRAIN UP PUMP & TANK LINES, SDFN
	16:30 - 16:30	0.00	FRAC	52	I	P		BRADENHEAD PRESSURE @ 0PSI - NO FLUID, OPEN SURFACE CSG VALVE & LEAVE IT OPEN ALL DAY, SHUT VALVE BEFORE WE GO HOME
12/11/2016	6:00 - 6:45	0.75	FRAC	30	G	P		CREW TRAVEL
	6:45 - 7:00	0.25	FRAC	48		P		MORNING SAFETY MEETING/JSA *REFER TO SAFETY SECTION FOR REPORT*
	7:00 - 8:00	1.00	FRAC	30	E	P		CHECK WELL PRESSURES, SICP @ 0PSI, BRADENHEAD PRESSURE @ 0PSI - NO FLUID START RIG & EQUIPMENT, WARM UP HYDROLOGICS ON RIG, GET RIG PUMP STARTED & WARMED UP

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	8:00 - 8:30	0.50	FRAC	52	F	P		ESTABLISH RED ZONE, MAKE SURE ALL PERSONNEL & VEHICLES ARE CLEAR OF WELLHEAD & PUMP LINES, <b>PRESSURE TEST 4-1/2" CSG TO 2500PSI - HELD 15MIN, NO BLEED OFF, BLEED OFF PRESSURE TO RIG TANK</b> *CONTACT RIGO CINTORA & INFORM HIM OF TEST RESULTS, HE GAVE THE OKAY TO PROCEED*
	8:30 - 10:00	1.50	FRAC	41	A	P		<b>RU PIONEER WIRELINE, RIH w/ 4-1/2" CBL, LOG WELL FROM 1000' TO SURFACE, SEND LOG TO APPROPRIATE ENGINEERS, RD PIONEER WIRELINE</b> <b>*FOX HILLS CEMENT FROM 0'-862', RYAN HOLLINSHEAD GAVE THE OKAY TO PROCEED*</b>
	10:00 - 16:00	6.00	FRAC	31	I	P		TIH w/ WEATHERFORD 4-1/2" RETRIEVING HEAD ON 2.375" 4.7# J-55 TBG, RU KELLY HOSE & TBG SWIVEL, <b>CIRCULATE SAND OFF OF WEATHERFORD 4-1/2" RBP @ 6580', LATCH ONTO RBP, RELEASE WEATHERFORD RBP w/ 208JTS &amp; TOOH, LAY DOWN ALL TBG</b> *27JTS OF 1.66" 2.3# J-55 10RD IJ TBG ON TO TBG TRAILER* *232JTS OF 2.375" 4.7# J-55 TBG ON TBG TRAILER*
	16:00 - 17:00	1.00	FRAC	34	I	P		<b>RU PIONEER WIRELINE, RIH w/ 4-1/2" CIBP &amp; 3-1/8" PERF GUNS, CORRELATE TO COLLARS FROM CBL, SET PIONEER 4-1/2" CIBP @ 6775', PUH, CORRELATE TO COLLARS FROM CBL, SHOOT HOLES FROM 6712'-6725' w/ 3SPF, POOH</b>
	17:00 - 17:45	0.75	FRAC	37	E	P		<b>RIH w/ 3-1/8" PERF GUNS, CORRELATE TO COLLARS FROM CBL, SHOOT HOLES @ 6571'-6591' w/ 2SPF, POOH</b>
	17:45 - 18:30	0.75	FRAC	37	E	P		<b>RIH w/ 3-1/8" PERF GUNS, CORRELATE TO COLLARS FROM CBL, SHOOT HOLES @ 6408'-6428' w/ 2SPF, POOH, RD PIONEER WIRELINE</b>
	18:30 - 19:30	1.00	FRAC	30	G	P		SWI, DRAIN UP PUMP & TANK LINES, SDFN
	19:30 - 19:30	0.00	FRAC	52	I	P		BRADENHEAD PRESSURE @ 0PSI - NO FLUID, OPEN SURFACE CSG VALVE & LEAVE IT OPEN ALL DAY, SHUT VALVE BEFORE WE GO HOME
12/12/2016	6:00 - 7:00	1.00	FRAC	30	G	P		CREW TRAVE TO LOCATION. INSPECT & START EQUIPMENT, AND DISCUSS OBJECTIVES FOR THE DAY THROUGH THE JSA
	7:00 - 8:00	1.00	FRAC	30	E	P		STARTED RIG & EQUIPMENT, CHECK PRESSURES, 0 PSI ON THE CASING.
	8:00 - 16:30	8.50	FRAC	31	I	P		RU HYDROTESTER. TEST IN THE FRAC STRING. ORIGAL KB PLUS HANGER = 13.6 189 JTS 2.875 TBG N80 = 5,921.19' 2.313 X-NIPPLE = 1.15 1 JT 2.875 TBG = 29.7' 27/8 X 2-3/8 X-OVER = 0.52 9 JTS 2.375 TBG = 285.81 X-NIPPLE = 1' 1 JT 2.375 = 29.9' 4.5 AS-1x MECHANICAL SET PKR = 6.3' 2.375 x 4' PUP JT = 4' PKR SET @ 6,282.87' EOT @ 6,289.17'

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	16:30 - 18:00	1.50	FRAC	30	F	P		ND BOP's, SET PKR WITH 30K# OF SLACK OFF. TORQUE WELLHEAD & FRAC STACK
	18:00 - 21:00	3.00	FRAC	33	D	P		LOADED CSG W/10 BBLS BIO WATER AND PT TO 500 PSI FOR 15 MINT....TEST GOOD. ND BOP. NU SWECO 2-9/16" 10k FRAC VALVE & CROSS STACK. INSTALL 2 WAW CKECK VALVE. TEST TO 8,600 PSI FOR 15 MINTS. TEST GOOD. BLEED OFF PRESSURE. SWI. SDFN. DRAINED EQUIPMENT
	21:00 - 21:30	0.50	FRAC	30	G	P		CREW TO YARD
	21:30 - 21:30	0.00	FRAC	52	I	P		BRADENHEAD PRESSURE @ 0PSI - NO FLUID, OPEN SURFACE CSG VALVE & LEAVE IT OPEN ALL DAY, SHUT VALVE BEFORE WE GO HOME
12/13/2016	7:00 - 8:00	1.00	FRAC	30	G	P		CREW TRAVEL TO LOCATION, INSPECT & START EQUIPMENT, AND DISCUSS OBJECTIVES FOR THE DAY THROUGH THE JSA.
	8:00 - 10:00	2.00	FRAC	30	C	P		RACK OUT PUMP & TANK, CLEANED LOCATION, RIG DOWN.
12/14/2016	6:00 - 11:30	5.50	MIRU	36	1	P		crew arrives on loco with Gel unit start RU 08:00 hrs- NPT Frac water heater truck arrives on LOCO, spot equipment around once in place. 08:30 hrs- Rig in pumps and chemical floats 09:30 hrs -Start bucket test's.
	11:30 - 11:45	0.25	FRAC	48		P		SAFETY MEETING HELD WITH ALL ONSITE PERSONEL.JSA COVERED.
	11:45 - 13:45	2.00	FRAC	36	G	P		11:45 hrs- Continue trouble shooting Chem pumps. 12:30 hrs- chem pumps bucket tested . 13:30 hrs- prime pump trucks
	13:45 - 13:54	0.15	FRAC	52		P		P-test main treating lines & FB iron to 7,550 psi (-360 psi in 5 min). PASS.
	13:54 - 17:29	3.58	FRAC	36	G	P		. Start Codell @ 13:54 hrs End @ 17:29 hrs  Treated x-link design WHP: 20 psi. FDP @ 1  Formation break @ 3,068 psi. Line out @ 2,636 psi @ 3.3 bpm.  Averages 5,395 psi 22.5 bpm Maximums 6,536 psi 24 bpm  Fresh H2O 3,927 bbls ( 101%) 40/70 Sand 251,717 lbs (100%)  Pump Sand plug consisting of 3,000 lbs of 8 ppg sand.2,054 lbs displaced. 946 lbs left to settle out as sand plug. Pump to End of Tubing ,shut down. Allowing ~ .45 HR to settle out.
Josh Snoke 970-778-1504								

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	17:29 - 18:37	1.13	FRAC	46	G	P		WAIT ON SAND SLUG TO SETTLE
	18:37 - 21:53	3.27	FRAC	36	G	P		<p>Start Niobrara @ 18:37 hrs End @ 21:53 hrs</p> <p>Treated x-link design: WHP: 2,368 psi. FDP @ 1</p> <p>Formation break @ 2,747 psi. Line out @ 2,701 psi @ 4.9 bpm. 400 gal 7%acid( 963 psi relief) 20 bbl spacer. 400 gal 7% ( 890 psi relief.)</p> <p>Averages 5,811 psi 24.1 bpm Maximums 6,582 psi 25.7 bpm</p> <p>Fresh H2O 4,051 bbls ( 100%) 40/70 Sand 249,283 lbs (100%)</p> <p>ISIP 3,003 FG. .85 psi/ft</p> <p>Flush to top perf SD SIW</p> <p>Blow Down lines and winterize equipment. RDMO WINTERIZE EQUIPMENT. RDMO</p>
	21:53 - 0:00	2.12	FRAC	36	1	P		
12/15/2016	10:45 - 12:00	1.25	FLOWBK	33	A	P		1ST HOUR 2125# MADE 144 BBLS
	12:00 - 13:00	1.00	FLOWBK	33	A	P		2ND HOUR 1975# MADE 154 BBLS
	13:00 - 14:00	1.00	FLOWBK	33	A	P		3RD HOUR 1780# MADE 143 BBLS
12/16/2016	-							
12/28/2016	14:00 - 14:30	0.50	RUNTBG	48		P		HELD JSA SAFETY MEETING. DISCUSS JOB SCOPENAD POTENTIAL HAZARDS OF OPS. SLIPS TRIPS AND FALLS, SNOW POSSIBILITY, FALL HARNESSE USE, INSPECTION OF LIFTING EQUIP. FALL ZONE OF TUBING W/ WRANGLER, AND CLEAR SAFETY GLASSES AT DARK
	14:30 - 16:30	2.00	RUNTBG	30	A	P		ARRIVE ON LOCATION, CHECK WHP @ 450#S, OPEN ON CHOKE BLEED DOWN TO 0#S IN 20 MINS. MIRU SERVICE RIG / SUPPORT EQUIP. , RU HARDLINES FROM PUMP TO WELL AND BLEED OFF TO TANKS, INSTALL RESTRAINTS, SPOT PIPE WRANGLER AND RACKS
	16:30 - 17:00	0.50	RUNTBG	30	G	P		CREW TRAVEL TO YARD FROM LOCATION
12/29/2016	6:45 - 7:10	0.42	RUNTBG	48		P		HELD JSA , DISCUSS JOB SCOPE AND POTENTIAL HAZARDS OF OPS. USE OF FALL HARNESSE', USE OF RESTRAINTS ON ALL LINES, SPILL PREVENTION AND REPORTING, INSPECTION OF LIFTING EQUIP., SPOTTERS, RED ZONE OF TEST UNIT, PINCH POINTS, CLEANLINESS OF RIG FLOOR, RIGHT EQUIP. FOR WELL CONTROL ON THE RIG FLOOR AND APC ONE TEAM MENTALITY
								HOT TOPIC: SPILL PREVENTION

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	7:10 - 10:10	3.00	RUNTBG	30	E	P		WARM EQUIP. BREAK CIRC TO RIG PIT, PUMP DOWN TUBING @ 2 BPM FOR 25 BBLS, PSI SLOWLY INCREASING FROM 200# TO 1000#, SLOW RATE TO 1 BPM, CONT. TO PUMP TOTAL OF 50 BBLS AWAY PSI STEADY @ 600#, BRING OFF LINE, SWAP AROUND VALVING AND PUMP DOWN BACK SIDE, 3 BBLS AWAY @ 1 BPM PRESSURE INCREASE TO 1500#, BRING OFF LINE AND OPEN BACKSIDE TO RIG PIT, BLEED OFF PSI NO FLOW, SWAP AROUND OPEN TUBING SIDE TO TANK AND FLOW 40 BBLS CLEAN FLUID BACK THEN CHANGING OVER TO OIL, ATTEMPT TO PUMP BACK INTO WELL PRESSURE UP IMMEDIATELY, OPEN BACK TO FLOW BACK LEAVE OPEN TILL OIL FLOWED OFF
	10:10 - 10:35	0.42	RUNTBG	30	F	P		ND FRAC STACK, NU BOP STACK TORQUE TO SPECS.
	10:35 - 10:55	0.33	RUNTBG	30	A	P		RU WORK FLOOR / TONGS
	10:55 - 11:20	0.42	RUNTBG	31	D	P		STRIP IN SINGLE JT W/ TIW DOWN INTO HANGER, SECURE, UNLOCK HANGER PU 35K, RELEASE PACKER, CONT. PU PACKER FREE
	11:20 - 12:10	0.83	RUNTBG	31	H	P		RU KELLY CIRC FLUID AROUND PACKER / CLEAR TUBING, PUMPING SLOW DUE TO WELL WANTING TO PRESSURE UP WHEN PUMPING
	12:10 - 14:37	2.45	RUNTBG	31	I	P		LAY DOWN PU JT, LAY DOWN HANGER, POOH LAYING DOWN TO RACKS , RACK OUT TO TRAILER
	14:37 - 15:20	0.72	RUNTBG	34	1	P		MIRU PIONEER WIRELINE UNIT, MU 4.5" BAKER RBP
	15:20 - 15:45	0.42	RUNTBG	34	I	P		MOVE TO WELL PSI TEST LUBE TO 500# CHECK FOR LEAKS, GOOD TEST, OPEN WELL, RIH & SET RBP @ 1000', POOH
	15:45 - 16:00	0.25	RUNTBG	34	1	P		OOH SIW, LAY DOWN LUBE
	16:00 - 16:15	0.25	RUNTBG	30	F	P		RD BOPS
	16:15 - 16:48	0.55	RUNTBG	47	A	P		RD 10K TUBING HEAD, RU 5K 4 PIN TUBING HEAD
	16:48 - 17:00	0.20	RUNTBG	30	F	P		NU BOP EQUIP. TORQUE
	17:00 - 17:10	0.17	RUNTBG	47	B	P		PSI TEST TUBING HEAD TO 500# HOLD FOR 5 MINS CHECK FOR LEAKS GOOD TEST, BLEED DOWN
	17:10 - 17:30	0.33	RUNTBG	34	1	P		RU RETRIEVAL HEAD, PSI TEST LUBE TO 500#, GOOD TEST BLEED OFF, RIH ENGAGE PLUG, JAR FREE, POOH, SIW
	17:30 - 18:00	0.50	RUNTBG	34	1	P		RDMO WIRELINE / SIW, SECURE SDFN
	18:00 - 18:30	0.50	RUNTBG	30	G	P		CREW TRAVEL TO YARD FROM LOCATION.
12/30/2016	6:30 - 7:00	0.50	RUNTBG	48		P		HELD JSA SAFETY MEETING. DISCUSS JOB SCOPE AND POTENTIAL HAZARDS OF OPS. DISCUSS PINCH POINTS INVOLVED W/ RUNNING TUBING, SPOTTERS ON ALL BACKING OPS, RED ZONE OF PIPE WRANGLER, INSPECTING / MAINTAINENCE OF EQUIP. , SLIPS TRIPS AND FALLS, SPILL PREVENTION, UTILIZING EQUIP. ON LOCATION, AND RIGHT TO SHUT JOB DOWN
	7:00 - 8:00	1.00	RUNTBG	31	H	P		OPEN WELL TO RIG PIT, BLEED OFF GAS HEAD, TRICKLE FLUID DOWN TOTAL OF 5 BBLS WELL FULL, LEAVE OPEN TO RIG PIT FOR DISPLACEMENT

US ROCKIES REGION  
Operation Summary Report

Well: MARKHAM 01

Spud date: 5/23/1983

Project: COLORADO-WELD-NAD83-UTM13

Site: MARKHAM 01

Rig name no.: LEED 723/723

Event: RECOMPL/RESEREVEADD

Start date: 12/6/2016

End date:

Active datum: RKB @4,961.99usft (above Mean Sea Level)

UWI: SW/NW/0/4/N/68/W/15/0/0/6/PM/N/1,650.00/W/0/990.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	8:00 - 11:30	3.50	RUNTBG	31	I	P		MU BHA W/ NOTCH COLLAR AND XN NIPPLE BACK TO TUBING, TRIP IN HOLE 20 JTS, WELL FLOWING UP TUBING, INSTALL TIW VALVE, BREAK CIRC TO TANK, PUMP DOWN TUBING RETURN UP CASING TO RIG PIT, CIRC OIL / GAS OUT, KILL PUMP RIG DOWN TIW AND KELLY, PU JT 21 CONT. RIH TO JT 209 TAG EOT @6615', LAY DOWN SINGLE
	11:30 - 15:24	3.90	RUNTBG	31	H	P		PU TUBING SWIVEL W/ JT 209. BREAK CIRC TO RIG PIT, WASH DOWN W/ SINGLES TO JT 214, TAG CIBP, PU OFF 10' CIRC WELL VOLUME TO RIG PIT POOH, LAY DOWN TO JT 210 EOT @ 6,668'
	15:24 - 15:30	0.10	RUNTBG	31	I	P		
	15:30 - 15:50	0.33	RUNTBG	47	A	P		RU TUBING HANGER, STRIP IN HOLE TO LANDING PINS, SECURE IN WELL HEAD
	15:50 - 17:20	1.50	RUNTBG	30	C	P		ND WORKOVER STACK, NU TUBING HEAD TORQUE TO SPECS, GLAND NUT LEAKING REPLACE SEALS
	17:20 - 17:50	0.50	RUNTBG	30	C	P		RDMO SERVICE RIG AND SUPPORT EQUIP.
	17:50 - 18:20	0.50	RUNTBG	30	G	P		CREW TRAVEL TO YARD FROM LOCATION
12/31/2016	7:30 - 8:00	0.50	RUNTBG	48		P		HELD JSA W/ SLICKLINE CREW. DISCUSS JOB SCOPE AND POTENTIAL HAZARDS. PINCH POINTS, WORKING UNDER PRESSURE, THREE POINTS OF CONTACT, FALL RESTRAINTS AND UTILIZING EQUIP.
	8:00 - 10:00	2.00	RUNTBG	35	1	P		RU TUBING BROACH, RIH TO XN BROACH TUBING, POOH RDMO