

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

Well: **HELD ET AL 1**

Spud date: 1/14/1984

Project: COLORADO-WELD-NAD83-UTM13

Site: HELD ET AL 1

Rig name no.: CONCORD 4/4

Event: CONST- CAP WELL WORK

Start date: 12/7/2016

End date:

Active datum: RKB @4,816.00usft (above Mean Sea Level)

UWI: NW/SW/0/4/N/67/W/4/0/0/6/PRIME/S/1,980.00/W/0/660.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
11/21/2016	-							
12/7/2016	6:00 - 7:00	1.00	WO/REP	30	G	P		CT TO LOC, HELD JSA SAFETY MEETING, REFER TO SAFETY SECTION
	7:00 - 8:30	1.50	WO/REP	30	A	P		SPOT IN BASE BEAM, PUMP & TANK, MIRU CONCORD 4, LAY DOWN PUMP LINES, CHECK WELL PRESSURE, CP 1200PSI, TP 1200PSI, SP 30PSI,
	8:30 - 10:00	1.50	WO/REP	30	E	P		RU PUMP LINES, BLOW DOWN WELL TO WORK TANK, START PUMP AND KILL WELL W/ 70 BBLs OF WATER
	10:00 - 11:00	1.00	WO/REP	30	F	P		NU BOPS/WF, UNLAND TBG, MIRU PICK TESTERS
	11:00 - 13:30	2.50	WO/REP	31	I	P		TOOH TESTING TBG, WE HAD 55 STANDS OUT AND WELL STARTED TO CAME AROUND, WE TEST TOTAL OF 210 JOINTS, 206 GOOD & 3 BAD, RDMO PICK TESTERS
	13:30 - 15:30	2.00	WO/REP	31	I	P		PU 4.5 CASING SCRAPER AND RIH DOWN TO 7084' W/ 215 JOINTS
	15:30 - 16:30	1.00	WO/REP	31	H	P		PU PUMP LINE AND CIRCULATE WELL, AFTER WELL IS DEAD, RD PUMP LINE
	16:30 - 18:30	2.00	WO/REP	31	H	P		TOOH W/ TBG SB TO DERRICK, LD CASING SCRAPER, CLOSE WELL
	18:30 - 20:00	1.50	WO/REP	30	G	P		DRAIN PUMP LINES SDFN
12/8/2016	6:00 - 7:00	1.00	WO/REP	30	G	P		CT TO LOC, HELD JAS SAFETY MEETING, REFER TO SAFETY SECTION
	7:00 - 10:00	3.00	WO/REP	46	E	P		WAITED 3HRS FOR RIG CREW TO START EQUIPMENT
	10:00 - 11:30	1.50	WO/REP	31	I	P		OPEN WELL, PU 4.5 CIBP, TIH, GO DOWN TO 2314' AND THE PLUG STACKED OUT, CHANGE OVER TBG TONGS AND TOOH, LAY DOWN CIBP INSPECT PLUG TO SEE WHY STACKED OUT, DIDN'T FIND ANYTHING WRONG
	11:30 - 13:00	1.50	WO/REP	31	I	P		PU A NEW CIBP & TIH DOWN TO 2987' AND THE PLUG SET ON US, CAME OFF THE PLUG AND TOOH, LAY DOWN CIBP SETTING TOOL,
	13:00 - 14:30	1.50	WO/REP	31	I	P		PU 3 7/8 CONE BITE, TIH, TAG CIBP
	14:30 - 15:00	0.50	WO/REP	31	I	P		RU P-SWIVEL & PUMP LINES, START PUMP AND BREAK CIRCULATION
	15:00 - 17:00	2.00	WO/REP	44	C	P		DRILL CIBP @ 2987', RD P-SWIVEL, CHASED PLUG DOWN TO 6600'
	17:00 - 19:00	2.00	WO/REP	31	I	P		CHANGE OVER TOOLS AND TOOH SB TO DERRICK
	19:00 - 20:00	1.00	WO/REP	30	G	P		DRAIN PUMP & PUMP LINES, SDFN
12/9/2016	6:00 - 7:00	1.00	WO/REP	30	G	S		CT TO LOC, HELD JSA SAFETY MEETING, REFER TO SAFETY SECTION, START EQUIPMENT, CHECK WELL PRESSURES, 0PSI, SURFACE HAD A BLOW NO FLUID
	7:00 - 8:30	1.50	WO/REP	34	I	P		<b>MIRU PIONEER WL SERVICES, PU 4.5 CIBP, RIH AND SET @ 6550',</b> POOH, RD WL SERVICES
	8:30 - 10:30	2.00	WO/REP	31	I	P		PU SN/NC TIH LAND EOT @ 6535' TO CIRCULATE WELL,

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	10:30 - 11:30	1.00	WO/REP	31	H	P		RU PUMP LINES, BREAK CIRCULATION TO GET ALL GAS OUT AND <b>PRESSURE TEST TO 500PSI, TEST GOOD, RD PUMP LINES</b>
	11:30 - 13:30	2.00	WO/REP	31	I	P		TOOH W/ TBG SB TO DERRICK
	13:30 - 14:30	1.00	WO/REP	34	H	P		<b>RU WL AND PU PERFORATION GUNS,RIH &amp; SHOOT HOLES @ 6310' &amp; 5910', POOH</b>
	14:30 - 15:00	0.50	WO/REP	34	B	P		<b>PU 4.5 CICR, RIH &amp; SET @ 5940',</b> POOH RDMO PIONEER WL SERVICES,
	15:00 - 17:30	2.50	WO/REP	31	I	P		MIRU ANYTIME TESTING, RIH TESTING TBG TO 3000PSI, RDMO HYDROTETER
	17:30 - 18:00	0.50	WO/REP	31	H	P		RU PUMP LINES TRY TO BREAK CIRCULATION PUMP PRESSURE UP TO 2000PSI, STING OUT CICR AND WE WERE ABLE TO CIRCULATE, RD PUMP LINES
	18:00 - 20:30	2.50	WO/REP	31	I	P		RD PUMP LINES, TOOH SB ALL TBG, CLOSE WELL, SDFN
12/10/2016	6:00 - 7:00	1.00	WO/REP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING AND START EQUIPMENT
	7:00 - 9:00	2.00	WO/REP	31	I	P		TIH W/ 3 7/8 CONE BIT AND 180 JTS OF 2.375 7-55. HAD TO FIGHT ICE PLUGS THE WHOLE WAY IN.
	9:00 - 11:30	2.50	WO/REP	44	B	P		R/U P/SWIVEL AND CIRCULATING EQUIPMENT ON JT #181, ESTABLISH CIRCULATION, <b>DRILL OUT CICR AND PUSH IT DOWN TO TOP CIBP @ 6550', ROLL</b>
								<b>HOLE CLEAN, GOT SHALE AND DRILLING MUD BACK, R/D POWER SWIVEL AND CIRCULATING EQUIPMENT.</b>
	11:30 - 13:00	1.50	WO/REP	31	I	P		TOOH AND L/D 15 STANDS THAT DIDN'T BROACH THE DAY BEFORE.
	13:00 - 16:00	3.00	WO/REP	34	H	P		<b>MIRU PIONEER WIRELINE, RIH W/ CBL TOOL AND LOG FROM 6550' TO 5900', FOUND CEMENT TOP @ 6406', POOH AND L/D CBL TOOL, TIH W/ 1' GUN W/3</b>
								<b>SPF AND SHOOT SQUEEZE HOLES @ 6150', POOH, RDMO WIRELINE.</b>
	16:00 - 17:30	1.50	WO/REP	31	I	P		TIH W/PKR AND 2.375 TBG, SET PKR @ 5973' WITH 181JTS.
	17:30 - 18:00	0.50	WO/REP	31	H	P		ESTABLISH CIRCULATION DOWN TBG OUT CSG, PUMP 2 BBLS/MIN @ 300PSI.
	18:00 - 19:30	1.50	WO/REP	31	I	P		RELEASE PKR, LET ELEMENTS RELAX, TOOH, SWI, DRAIN EQUIPMENT, SDFN.
	19:30 - 20:00	0.50	WO/REP	30	G	P		CREW TRAVEL.
12/11/2016	6:00 - 7:00	1.00	WO/REP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING, START EQUIPMENT.
	7:00 - 8:30	1.50	WO/REP	34	I	P		<b>MIRU PIONEER WIRELINE, RIH AND SET CICR @ 5970',</b> POOH, RDMO WIRELINE.
	8:30 - 9:30	1.00	WO/REP	31	I	P		TIH W/ STINGER AND 2.375 TBG AND STONG INTO CICR W/ 180 JTS AND 1-10' SUB.
	9:30 - 10:00	0.50	WO/REP	31	H	P		R/U CIRCULATING EQUIPMENT AND ESTABLISH CIRCULATION DOWN TBG OUT CSG, TOTAL PUMP 50 BBLS.
	10:00 - 12:00	2.00	WO/REP	51	C	P		<b>MIRU SCHLUMBERGER CEMENT CREW, HELD A SAFETY MEETING TO DISCUSS JOB PROCEDURES, MIX AND PUMP 154 SKS OF 15.8PPG CEMENT @ 1.51 YIELD, UNDER DISPLACE BY 3 BBLS.</b>

THERE IS NO PAPER COPY OF LOG, ONLY A QUICK RUN TO VERIFY TOC.

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12/12/2016	12:00 - 15:00	3.00	WO/REP	31	I	P		POOH TO 5200' W/ 158 JTS, REVERSE OUT TO ENSURE NO CEMENT IN WELLBORN W/ 100 BBLs, FINISH TOO H, SWI, DRAIN EQUIPMENT, SDFN.
	15:00 - 16:00	1.00	WO/REP	30	G	P		CREW TRAVEL
	6:00 - 7:00	1.00	WO/REP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING, START EQUIPMENT
	7:00 - 8:30	1.50	WO/REP	31	I	P		TIH W/CONE BIT AND 157 JTS AND TAG CEMENT @5170'.
	8:30 - 15:30	7.00	WO/REP	44	A	P		R/U P/SWIVEL AND CIRCULATING EQUIPMENT, DRILL OUT CEMENT TO TOP OF CICR @5970', PRES/TES TO 500PSI, LOST 40PSI IN 15 MIN.
12/13/2016	15:30 - 21:00	5.50	WO/REP	44	D	P		DRILL OUT CICR AND CONTINUE TO DRILL OUT CEMENT TO 6155 AND DRILL CEMENT STRINGS DOWN TO 6330 W/ 194 JTS' ROLL HOLE CLEAN, PRESSURE TEST BOTTOM HOLES TO 500 PSI FOR 15 MIN, HELD GOOD, R/D P/SWIVEL, PULL OUT 4 STANDS, SWI, DRAIN EQUIPMENT, SDFN.
	21:00 - 22:00	1.00	WO/REP	30	G	P		CREW TRAVEL
	6:00 - 7:00	1.00	WO/REP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING, START EQUIPMENT
	7:00 - 10:30	3.50	WO/REP	44	D	P		RIH W/ 4 STANDS, R/U P/SWIVEL AND CIRCULATING EQUIPMENT, ESTABLISH CIRCULATION, CONTINUE TO DRILL OUT CEMENT AND WASH DOWN TO CIBP @ 6550', ROLL CLEAN, PRESSURE TEST TO 500 PSI, FOR 15 MIN, HELD GOOD, R/D P/SWIVEL.
	10:30 - 11:45	1.25	WO/REP	31	I	P		TOOH W/ 2.375 TBG AND CONE BIT
	11:45 - 13:00	1.25	WO/REP	41	A	P		MIRU PIONEER WIRELINE, P/U AND RIH W/ CBL TOOL, CORRELATE LOG W/OLD LOGS, LOG WELL FROM 6500' TO 5000', POOH, RDMO WIRELINE.
	13:00 - 14:00	1.00	WO/REP	31	I	P		N/D TBG EQUIPMENT, BOP AND TBG HEAD, N/U NEW 5K WELL HEAD, BOP AND TBG EQUIPMENT, PRESSURE TEST WELL HEAD TO 500 PSI, HELD GOOD.
	14:00 - 15:30	1.50	WO/REP	31	I	P		TIH W/ CONE BIT AND 200 JTS.
	15:30 - 18:30	3.00	WO/REP	44	D	P		R/U POWER SWIVEL AND CIRCULATING EQUIPMENT, ESTABLISH CIRCULATION, DRILL OUT CIBP AT 6550 AND ALSO DRILL OUT REMAINING PIECES OF CIBP AND CICR, CONTINUE TO RIH TO 7440' W/227 JTS, CIRCULATE HOLE CLEAN AND PUMP 120 BBLs OF CLEAN FRESH/BIO WATER FOR WELLBORN.
	18:30 - 21:30	3.00	WO/REP	31	I	P		POOH LAYING DOWN TBG ON TBG TRAILER, SWI, DRAIN EQUIPMENT, SDFN.
12/14/2016	21:30 - 22:00	0.50	WO/REP	30	G	P		CREW TRAVEL.
	6:00 - 7:00	1.00	WO/REP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING
	7:00 - 9:00	2.00	WO/REP	34	I	P		MIRU PINEER WIRELINE TO RIH AND SET CIBP @ 7005', CSG COLLAR @ 7007', POOH.
	9:00 - 13:00	4.00	WO/REP	37	E	P		P/U AND RIH W/ 18' PERFORATING GUNS W/ 3 SPF AND SHOOT PRODUCTION HOLES FROM 6936' TO 6954', POOH, RIH W/25' PERFORATING GUNS W/ 2 SPF AND HAD A MISS FIRE, POOH, FOUND AND FIX PLOBLEM, RIH AND SHOOT HOLES FROM 6792-6817' AND B FROM 6706'-6718', POOH, RDMO WIRELINE.

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	13:00 - 19:00	6.00	WO/REP	31	I	P		MIRU ANYTIME TESTING AND TEST 2 JTS OF 2.375 AND 2 JTS OF 2.875 ON SURFACE AND HYDRO TEST IN HOLE W/4' SUB, FRAC PKR, 1-2.375 JT, X-NIPPLE, 9 JTS, X/O, 1JT OF 2.875, X-NIPPLE, 190JTS OF 2.875 N-80, TEST 2.375 TBG TO 6500PSI AND 2.875 TO 8500PSI, R/D TESTER.
	19:00 - 21:00	2.00	WO/REP	31	O	P		SET PKR W/ 30K OF SLACK ON IT, LAND END OF STRING @6465', PKR @6456.80, 2.375 X-NIPPLE @6424.60, X/O @6140.50 AND 2.875 X-NIPPLE @6106.80, N/D TBG EQUIPMENT, N/U TOP FLANGE, FRAC VALVE, PRESSURE TEST BACK SIDE "CSG" TO 500 PSI FOR 15 MIN AND LOST 150 PSI IN 15 MIN, BLEAD OFF PRESSURE AND GOT A LOT OF AIR BACK, CONTINUE TO WORK THE AIR OUT, ON FINAL TEST LOST 50 PSI IN 15 MIN, SDFN, WILL GET A TEST IN THE MORNING.
	21:00 - 23:00	2.00	WO/REP	31	1	P		N/U FRAC TREE AND DO A SHELL TEST TO, LOW TEST 250PSI, HIGH TEST TO 8600 PSI, SWI, SDFN
	23:00 - 23:30	0.50	WO/REP	30	G	P		CREW TRAVEL
12/15/2016	6:00 - 7:00	1.00	WO/REP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING.
	7:00 - 8:00	1.00	WO/REP	33	C	P		START EQUIPMENT, PRESSURE TEST CSG TO 500 PSI WITH BRINE WATER FOR 15 MIN, HELD GOOD, BLEAD OFF PRESSURE TO WORK TANK, SWI.
	8:00 - 9:00	1.00	WO/REP	30	C	P		RIG DOWN RIG AND PUMP LINES, PULL OFF WELL HEAD.