

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

Well: **NRC 14-8** Spud date: 8/21/2010  
 Project: COLORADO-WELD-NAD83-UTM13 Site: NRC 19-8 Rig name no.: RANGER 23/23  
 Event: ABANDONMENT Start date: 3/29/2019 End date:  
 Active datum: RKB @5,041.00usft (above Mean Sea Level) UWI: NW/SW/0/1/N/67/W/8/0/0/6/PM/S/1,550.00/W/0/881.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
2/4/2019	10:00 - 11:00	1.00	ABANDP	53	B	P		<b>FORM 17 TEST</b>
3/28/2019	-							
3/29/2019	10:30 - 11:30	1.00	ABANDP	30	A	P		SPOT IN BASE BEAM, MIRU RIG & EQUIPMENT
	11:30 - 12:30	1.00	ABANDP	30	E	P		BLOW DOWN WELL AND CONTROL W/ 45 BBLs OF FRESH WATER W/ BIO
	12:30 - 13:30	1.00	ABANDP	52	G	P		PRESSURE TEST BOPS TO ANADARKOS EXP.
	13:30 - 14:30	1.00	ABANDP	30	F	P		ND WELL HEAD, NU BOPS
	14:30 - 16:30	2.00	ABANDP	31	I	P		TOOH STANDING BACK W/ 264 JTS OF 2-3/8 4.7# J-55 TBG
	16:30 - 17:00	0.50	ABANDP	30	I	P		SWI AND DRAIN UP EQUIPMENT
	17:00 - 17:30	0.50	ABANDP	30	G	P		CREW TRAVEL TO YARD
4/1/2019	6:00 - 7:00	1.00	ABANDP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING TO REVEIW JSA AND DAY TASK
	7:00 - 7:30	0.50	ABANDP	30	E	P		CP-220 PSI, SCP-0 PSI, BLOW DOWN WELL TO WORK TANK TO JUST LIGHT GAS IN 5 MINUTES, CONTROL WELL WITH 15 BBLs OF FRESH/BIO WATER.
	7:30 - 11:30	4.00	ABANDP	34	I	P		<b>MOVE IN PIONEER W/L, HELD A SAFETY MEETING, SPOT IN AND R/U WIRELINE, RIH WITH GAUGE RING TO 8300', POOH, RIH WITH CIBP AND SET IT AT 8295', POOH, RIH AND SPOT 2 SKS OF CEMENT ON TOP OF CIBP, POOH, RIH AND SET CIBP AT 7600', POOH, RDMO W/L.</b>
	11:30 - 12:45	1.25	ABANDP	31	I	P		TIH WITH NC/SN AND 240 JTS OF 2.375 TBG TO <b>7600'.</b>
	12:45 - 14:00	1.25	ABANDP	31	H	P		R/U CIRCULATING EQUIPMENT, ESTABLISH CIRCULATION AND ROLL GAS OUT, PRESSURE TEST CIBP AND CSG TO 1000 PSI, HELD GOOD.
	14:00 - 16:00	2.00	ABANDP	51	D	P		<b>MOVE IN BASIC CEMENT CREW, HELD A SAFETY MEETING, SPOT IN AND R/U CEMENT CREW, MIX AND PUMP 29 SKS OF CEMENT AT 15.8 PPG AND 1.53 YIELD, DISPLACE IT W/27 BBLs OF WATER, R/D CEMENTERS LINE, STAND BACK 26 JTS AND L/D 29 JTS ON TRAILER TO PUT EOT AT 5832', R/U CEMENTERS, MIX AND PUMP 10 SKS OF CEMENT AT 15.8 PPG AND 1.53 YIELD FOR DV TOOL BALANCE PLUG, RDMO CEMENTER CREW.</b>
	16:00 - 18:00	2.00	ABANDP	31	I	P		POOH AND L/D 185 JTS ON TBG TRAILER, TOTAL HAVE 46 JTS ON DERRICK AND 218 JTS ON TRAILER, SWI, DRAIN EQUIPMENT, SDFN.
	18:00 - 19:00	1.00	ABANDP	30	G	P		CHANGE CLOTHES AND CREW TRAVEL TO YARD.
4/2/2019	6:00 - 7:00	1.00	ABANDP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING TO REVIEW JSA AND DAY TASK.
	7:00 - 10:00	3.00	ABANDP	34	I	P		<b>MOVE IN PIONEER W/L, HELD A SAFETY MEETING, RIH AND SET CIBP AT 4550', POOH, RIH AND SPOT 2 SKS OF CEMENT ON TOP OF CIBP, POOH, RIH WITH JET CUTTER TO 1345', PRESSURE UP TO 100 PSI, ATTEMPT TO CUT AND FAIL, POOH AND NOTICE THERE WAS CO CCL, POOH MISSING TOOLS, RDMO TRUCK.</b>

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Spud date: 8/21/2010

Project: COLORADO-WELD-NAD83-UTM13

Site: NRC 19-8

Rig name no.: RANGER 23/23

Event: ABANDONMENT

Start date: 3/29/2019

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Active datum: RKB @5,041.00usft (above Mean Sea Level)

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	10:00 - 10:30	0.50	ABANDP	34	L	P		MIRU SECONDARY PIONEER W/L, P/U AND RIH WITH JET CUTTER TO 1345', PRESSURE UP CSG TO 200 PSI AND CUT CSG, POOH, RDMO W/L.
	10:30 - 12:00	1.50	ABANDP	31	H	P		R/U CIRCULATING EQUIPMENT, ESTABLISH CIRCULATION AND CONDITION HOLE FOR CEMENT JOB
	12:00 - 13:00	1.00	ABANDP	31	1	P		N/D TBG EQUIPMENT, BOP AND TBG HEAD, USE CSG SPEAR TO UN LAND CSG, N/U Q-92, SPOOL, BOP AND 4.5 EQUIPMENT.
	13:00 - 14:30	1.50	ABANDP	31	I	P		POOH AND L/D 32 JTS OF 4.5 CSG ON TRAILER, C/O EQUIPMENT TO 2.375, TIH W/46 JTS OF 2.375 TBG TO 1445'.
	14:30 - 17:30	3.00	ABANDP	51	D	P		MOVE IN BASIC CEMENT CREW, HELD A SAFETY MEETING, MIX AND PUMP 15 OF CHEM/WASH, 5 BBLs OF WATER, BBLs 240 SKS OF CEMENT AT 15.8 PPG AND 1.53 YIELD AND DISPLEASE IT W/2 BBLs OF WATER, POOH TO 120', REVERSE OUT CIRCULATION, POOH, SWI, DRAIN EQUIPMENT, SDFN.
	17:30 - 18:30	1.00	ABANDP	30	G	P		CHANGE CLOTHES, CREW TRAVEL TO YARD
4/3/2019	6:00 - 7:00	1.00	ABANDP	30	G	P		CREW TRAVEL TO LOCATION, HELD A SAFETY MEETING TO REVIEW JSA AND DAY TASK.
	7:00 - 8:15	1.25	ABANDP	31	1	P		SCP-0 PSI, RIH AND TAG CEMENT PLUG AT 417' WITH 12.5 JTS, POOH, PRESSURE TEST CEMENT PLUG AND CSG TO 500 PSI FOR 15 MINUTES, HELD GOOD, N/D TBG EQUIPMENT, BOP, SPOOL AND Q-92 FLANGE.
	8:15 - 9:00	0.75	ABANDP	34	I	P		MOVE IN PIONEER WIRELINE, HELD A SAFETY MEETING, RIH AND SET CIBP AT 80', POOH, RDMO W/L.
	9:00 - 10:00	1.00	ABANDP	30	C	P		R/D PULLING UNIT AND PUMP LINES, PULL OFF WELLHEAD
5/1/2019	6:00 - 7:00	1.00	ABANDZ	52		P		PRESSURE TESTED CIBP, SURFACE CASING TO 500 PSI
	7:00 - 8:00	1.00	ABANDZ	53	B	P		DUG UP SURFACE CASING
	8:00 - 9:00	1.00	ABANDZ	53	C	P		CUT CASING 6' BELOW GL, TAGGED @ 79'
	9:00 - 10:00	1.00	ABANDZ	53	B	P		FILLED CASING STUB WITH 43 BAGS 5000 PSI CEMENT
	10:00 - 11:00	1.00	ABANDZ	53	A	P		CAPPED CASING WITH A METAL PLATE CONTAINING WELL INFO
	11:00 - 12:00	1.00	ABANDZ	53	B	P		BACKFILLED
	12:00 - 12:00	0.00	ABANDZ	53	F	P		PLACED MARKER BALL