

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

Well: ST VRAIN 31-34

Spud date: 11/30/2007

Project: COLORADO-WELD-NAD83-UTM13

Site: ST VRAIN 18-34 PAD

Rig name no.: CONCORD 5/5

Event: WELL WORK EXPENSE

Start date: 12/19/2015

End date:

Active datum: RKB @4,947.00usft (above Mean Sea Level)

UWI: 0/3/N/68/W/34/0/SWNW/6/PM/N/1,564.00/W/0/1,143.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
12/19/2015	6:00 - 6:30	0.50	WO/REP	30	G	P		Crew to loc.
	6:30 - 9:30	3.00	WO/REP	35	A	P		Miru SUMMIT SL, retrieve plunger/ffsv @ 7,275', tag @ 7,394'.
	9:30 - 10:30	1.00	WO/REP	30	A	P		Miru Concord 5, held tailgate.
	10:30 - 11:30	1.00	WO/REP	30	E	P		150/150, scsg 200 psi, killed well, 30 dn csg, 30 dn tbg, fresh-bio.
	11:30 - 12:00	0.50	WO/REP	30	F	P		Nd demco top flange, nu BOP, BOP function test.
	12:00 - 14:00	2.00	WO/REP	31	I	P		Miru PICK TEST, emi, 3 bad, 228 good, ld sn.
	14:00 - 15:30	1.50	WO/REP	31	I	P		Tih, rbp, 216 jts @ 6,802', set rbp, ld 1 jt.
	15:30 - 16:30	1.00	WO/REP	30	C	P		Cir gas out, test rbp/csg to 2,000 psi for 15 min, good test.
12/21/2015	16:30 - 17:00	0.50	WO/REP	31	I	P		Puh 15 stands to 5,849', swi, sdfn.
	6:00 - 6:30	0.50	WO/REP	30	G	P		Crew to loc.
	6:30 - 7:00	0.50	WO/REP	30	C	P		Held tailgate, 0/0, scsg 150 psi, blew right dn, left open, BOP function test.
	7:00 - 8:30	1.50	WO/REP	31	I	P		Spot 2 sx sand, tooh, ld r head.
	8:30 - 10:30	2.00	WO/REP	30	C	P		Nd BOP, nd wh, unland 4 1/2 csg, nu dual entry, nu wh, nu BOP.
	10:30 - 11:30	1.00	WO/REP	31	I	P		Tih with 1.66 tbg to 1,695'.
12/22/2015	11:30 - 17:00	5.50	WO/REP	30	C	P		Pump DF 20/20 sweep, cir wellbore, swi, sdfn.
	6:00 - 6:30	0.50	WO/REP	30	G	P		Crew to loc.
	6:30 - 7:00	0.50	WO/REP	30	C	P		Held tailgate, no pressre on scsg, BOP, function test.
	7:00 - 9:30	2.50	WO/REP	30	C	P		Cir wellbore, pump 40 bbls of 10 lb mud, ld dn 12 jts to 1,295'.
	9:30 - 11:30	2.00	WO/REP	51	C	P		Miru SANJEL, held tailgate, test lines to 2,500 psi, est cir, 5 bbls fresh, 20 sms, 5 fresh, 40.5 cmt(130 sx) control set C, 13.5, 1.75, 2% Gypsum(preblend), 2% Cacl2(preblend), 2% sms(preblend), dispalce 1.5, rdmo SANJEL.
	11:30 - 12:00	0.50	WO/REP	31	I	P		Ld 34 jts to 210'.
	12:00 - 12:30	0.50	WO/REP	30	C	P		Rev cir, ld tbg.
	12:30 - 13:30	1.00	WO/REP	30	F	P		Nd BOP, nd daul entry, land 4 1/2 csg, nu wh, nu BOP, swi, sdfn.
	6:00 - 6:30	0.50	WO/REP	30	G	P		Crew to loc.
	6:30 - 7:00	0.50	WO/REP	30	C	P		Held taigate, 0 scsg, shut scsg in, BOP function test.
12/23/2015	7:00 - 7:30	0.50	WO/REP	34	1	P		Miru IPS WL.
	7:30 - 11:00	3.50	WO/REP	46	E	Z		Gamma ray no good, waited for new on, replaced gamma ray.
	11:00 - 13:00	2.00	WO/REP	41	A	P		Rih, cbl, log from 3,300' to surface, cmt coverage from 1,326' to 324', rdmo IPS.
	13:00 - 14:30	1.50	WO/REP	31	I	P		Tih, r head, cir sand cap off rbp, get off rbp, ld 1 jt, swi, check scsg, no pressure, sdfn.
	6:00 - 6:30	0.50	WO/REP	30	G	P		Crew to loc.
	6:30 - 7:00	0.50	WO/REP	30	C	P		Held tailgate, 0/0, no surface pressure, closed scsg, BOP function test.
12/28/2015	7:00 - 9:00	2.00	WO/REP	31	I	P		Pick up 2 jts, latch on to rbp, release rbp, tooh, ld rbp.

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Event: WELL WORK EXPENSE	Start date: 12/19/2015		End date:
Active datum: RKB @4,947.00usft (above Mean Sea Level)		UWI: 0/3/N/68/W/34/0/SWNW/6/PM/N/1,564.00/W/0/1,143.00/0/0	

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	9:00 - 10:30	1.50	WO/REP	31	I	P		Tih, nc, xn profile nipple, 231 jts, eot @ 7,284' kb.
	10:30 - 11:30	1.00	WO/REP	30	C	P		Broached tbq, 1.90.
	11:30 - 12:30	1.00	WO/REP	30	C	P		Nd BOP, nu top flange.
	12:30 - 13:00	0.50	WO/REP	30	C	P		Miru HS TESTING, torque wh, test wh to 5,000 psi for 15 min, good test.
	13:00 - 14:00	1.00	WO/REP	30	C	P		Swi, check scsg, no pressure, rdmo Concord 5.
12/29/2015	12:00 - 13:00	1.00	MIRU	42	B	P		MIRU Denner 3
	13:00 - 16:00	3.00	WO/REP	42	B	P		broach
	16:00 - 17:00	1.00	WO/REP	42	B	P		SDFN
12/30/2015	6:00 - 7:00	1.00	MAINT	42	B	P		Crew travel
	7:00 - 8:00	1.00	MAINT	42	B	P		Turn Wellhead
	8:00 - 16:30	8.50	MAINT	42	B	P		Swab
	16:30 - 17:30	1.00	MAINT	42	B	P		SDFN
12/31/2015	6:00 - 7:00	1.00	WO/REP	42	B	P		CT
	7:00 - 9:00	2.00	WO/REP	42	B	P		swab
	9:00 - 10:00	1.00	RDMO	42	B	P		RMO Denner 3