

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
9/22/2017	0:00 - 0:00	0.00	DRLCON			P	20	PRESET CONDUCTOR
9/24/2017	20:00 - 0:00	4.00	MIRU	01	A	P	99	RIG DOWN, PREPEARE FOR MOVE
9/25/2017	0:00 - 6:00	6.00	MIRU	01	E	P	99	RIG DOWN FLOOR, TOP DRIVE, BACK YARD, POWER CORDS, GENERAL RIG DOWN
	6:00 - 19:00	13.00	MIRU	01	B	P	99	MOVE RIG, SET IN BACK YARD, MATTING BOARDS, SUB BASE, DRAWWORKS
	19:00 - 0:00	5.00	MIRU	01	B	P	99	RIG UP ELECTRICAL, MUD LINES. GENERAL RIG UP
9/26/2017	0:00 - 19:00	19.00	MIRU	01	B	P	99	RIG UP POWER CORDS, STEAM LINES , GENERAL RIG UP, SET IN FRONT END, SET IN REMAINING BACK YARD, CHANGE OUT DRILLING LINE, RAISE DERRICK, RIG UP FLOOR, FLARE LINES, GENERAL RIG UP
	19:00 - 20:00	1.00	MIRU	23		P	99	PRE SPUD INSPECTION
	20:00 - 0:00	4.00	MIRU	01	B	P	99	SET IN CELLAR PUMPS, MIX MUD, CHANGE SHAKER SCREENS, CHANGE OUT 4" TOOLS TO 5" TOOLS ON FLOOR
9/27/2017	0:00 - 1:30	1.50	MIRU	01	B	P	99	PRESSURE TEST MUD LINES, ENSURE CELLAR PUMP FUNCTIONAL, STRAP DIRECTIONAL ASSEMBLY
	1:30 - 4:15	2.75	MIRU	06	A	P	99	PICK UP DIRECTIONAL ASSEMBLY, MAKE UP SAME, SCRIBE
	4:15 - 7:00	2.75	DRLSUR	02	B	P	99	DRILL SURFACE HOLE FROM 100' TO 309'
	7:00 - 8:45	1.75	DRLSUR	06	A	P	308	TOOH 2 STANDS DP., P/U 6 JOINTS 6" D.C.
	8:45 - 10:30	1.75	DRLSUR	02	B	P	308	DRILL SURFACE FROM 309' TO 583'. MOTOR WAS ONLY YEILDING 2 DEG PER 100'
	10:30 - 11:00	0.50	DRLSUR	05	C	X	582	CIRC. HOLE CLEAN PRIOR TO TRIP FOR MOTOR
	11:00 - 14:45	3.75	DRLSUR	06	A	X	582	TOOH TO CHANGE MOTOR OUT FOR BUILD RATES, SCRIBE MOTOR, AND TIH
	14:45 - 17:15	2.50	DRLSUR	02	B	P	582	DRILL SURFACE FROM 583' TO 1,136'
	17:15 - 17:30	0.25	DRLSUR	07	A	P	1135	SERVICE TOP DRIVE
	17:30 - 23:15	5.75	DRLSUR	02	C	P	1135	DRILL SURFACE FROM 1,136' TO 2,062'. TD SURFAE HOLE
	23:15 - 0:00	0.75	CSGSUR	05	C	P	2061	PUMP SWEEP CIRC HOLE CLEAN AND PUMP SLUG.
9/28/2017	0:00 - 3:00	3.00	CSGSUR	06	D	P	2061	TOOH AND L/D DIRECTIONAL BHA.
	3:00 - 3:30	0.50	CSGSUR	06	D	P	2061	PREP FLOOR FOR 9 5/8" CASING RUN
	3:30 - 4:00	0.50	CSGSUR	12	A	P	2061	PJSM WITH RIG CREW AND NOBLE CASING CREW AND R/U CASING EQUIPMENT
	4:00 - 8:15	4.25	CSGSUR	12	C	P	2061	RUN 9 5/8" 36# J55 LTC CASING TO 2,052'
								JOB SUMMARY: TOP FILLING ON EVERY JT. SHOE DEPTH@2,052'. FLOAT COLLAR TOP@ 2,008' RAN 29 SCEPTOR SUPPLY, 9.625"x 12.25" BOWSPRING CENTRALIZERS, ONE ON EVERY JT FOR 7 JOINTS THEN EVERY OTHER ALL THE WAY TO SURFACE LAND CASING @ 2052'

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Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	8:15 - 9:00	0.75	CSGSUR	05	D	P	2061	INSTALL CASING VALVE, TEST TO 5000 PSI F/15 MIN, RIG DOWN NOBLE CASING CREW AND RIG UP BISON CEMENT HEAD.
	9:00 - 9:45	0.75	CSGSUR	05	D	P	2061	CIRC. BOTTOMS UP WITH CASING LANDED @ 2,052'
	9:45 - 10:00	0.25	CSGSUR	12	B	P	2061	PJSM WITH BISON CEMENTERS AND RIG CREW RIG UP CEMENT LINES
	10:00 - 11:30	1.50	CSGSUR	12	E	P	2061	CEMENT, TEST LINES TO 2,000 PSI, PUMP 30 BBL SPACER, PUMP 220 BBLS OF 14.2 PPG TYPE H CEMENT, DROP PLUG AND DISPLACE 156 BBLS FRESH WATER, BUMP 410 PSI OVER AND CHECK FLOATS. FLOATS GOOD. TESTED CASING TO 2,000 PSI FOR 15 MIN.
	11:30 - 12:15	0.75	CSGSUR	12	B	P	2061	RIG DOWN CEMENTERS, AND LAY DOWN LANDING JOINT
	12:15 - 13:30	1.25	CSGSUR	12	B	P	2061	RIG DOWN CELLAR PUMPS, HOSES, GUN LINES, PULL MOUSE HOLE AND PREP FOR N/U BOPE.
	13:30 - 20:30	7.00	CSGSUR	14	A	P	2061	PICK AND NIPPLE UP BOP, CHOKE AND KILL, LINES, VALVES, INSTALL WEATHER T AND 2 ORBIT VALVES, FLOW LINE, ACCUMULATOR LINES AND FUCTION TEST RAMS. TORQUE ALL BOLTS. CHANGE SAVER SUB TO XT 39.
	20:30 - 0:00	3.50	CSGSUR	15	A	P	2061	TEST BOPS PRE JOB SAFETY MEETING WITH RIG AND TESTING CREWS. R/U TEST JOINT. TEST CHOKE, KILL SIDE, CHOKE LINES, HCR, ALL FLOOR VALVES, UPPER AND LOWER PIPE RAMS, BLIND RAMS, AND ALL TOPDRIVE VALVES TO 250 / 5000 FOR 10 MIN. TEST ANNULAR PREVENTER TO 250 / 2500 PSI FOR 10 MIN. TEST MUD LINES TO 5500 PSI. TEST ORBIT VALVE'S TO 350 PSI FOR 10 MINUTES.
9/29/2017	0:00 - 1:00	1.00	CSGSUR	15	A	P	2061	FINISH TESTING BOPE AND LAY DOWN TEST JOINT AND PLUG, INSTALL WEAR BUSHING
	1:00 - 1:30	0.50	CSGSUR	06	A	P	2061	PREP RIG FLOOR FOR P/U BHA AND 4" DP.
	1:30 - 1:45	0.25	CSGSUR	07	A	P	2061	RIG SERVICE
	1:45 - 3:15	1.50	CSGSUR	06	A	P	2061	P/U BIT, MOTOR, MONELS AND MWD AND SCRIBE
	3:15 - 7:00	3.75	CSGSUR	06	A	P	2061	TIH P/U 4" DP. F/ 124' TO 2,008'
	7:00 - 7:45	0.75	DRLIN1	02	B	P	2061	FILL PIPE DRILL SHOE TRACK, FLOAT COLLAR @ 2,008', FLOAT SHOE @ 2,052' AND 13.5" OPEN HOLE TO 2,062'
	7:45 - 8:00	0.25	DRLIN1	02	B	P	2061	DRILL 20' NEW FORMATION F/ 2,062' TO 2,082'
	8:00 - 8:15	0.25	DRLIN1	05	A	P	2081	CIRC. HOLE PRIOR TO FIT.
	8:15 - 9:15	1.00	DRLIN1	16	B	P	2081	HOLD PJSM WITH SLB CREW ON RIGGING UP AND FIT TEST, PERFORM FIT TO 18 PPG EMW, (OMW 9.3, @ 2,021' TVD) HELD 914 PSI FOR 10 MINS TEST GOOD
	9:15 - 9:30	0.25	DRLIN1	16	B	P	2081	RIG DOWN SLB IRON

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	9:30 - 17:30	8.00	DRLIN1	02	B	P	2081	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 2,082' TO 3,552'. WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K MUD WT 9.3PPG VIS 71 BOP DRILL REPONSE TIME 1 MIN 38 SEC, DURATION 5 MIN
	17:30 - 17:45	0.25	DRLIN1	07	A	P	3551	SERVICE RIG AND TOPDRIVE
	17:45 - 19:00	1.25	DRLIN1	02	B	P	3551	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 3,552' TO 3,740'. WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K MUD WT 9.3PPG VIS 71
	19:00 - 22:00	3.00	DRLIN1	02	B	P	3739	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 3,740' TO 3,997'. STARTED TAKING 30' SURVEYS SO HALIBURTON RANGING CREW COULD VERIFY MAGNETICS. WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K MUD WT 9.3PPG VIS 71
	22:00 - 23:00	1.00	DRLIN1	05	C	P	3996	CIRC. SWEEP OUT AND 2 BOTTOMS UP PRIOR TO TOOH AND RANGING RUN.
	23:00 - 0:00	1.00	DRLIN1	06	B	P	3996	TOOH TO RUN RANGING TOOLS
9/30/2017	0:00 - 1:00	1.00	DRLIN1	06	B	P	3996	FINISH TOOH, F/ 2,070' TO 134' (SLM) BOP TRIP DRILL
	1:00 - 2:00	1.00	DRLIN1	06	B	P	3996	RACK BACK BHA AND LAYDOWN MOTOR
	2:00 - 2:30	0.50	DRLIN1	06	B	P	3996	PREP RIG FLOOR FOR WIRELINE RANGING RUN
	2:30 - 4:30	2.00	DRLIN1	11	C	P	3996	PJSM WITH SLB, HALIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS
	4:30 - 9:30	5.00	DRLIN1	11	C	P	3996	RUN RANGING TOOLS WITH SLB WIRELINE TRUCK, TO 3997' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE
	9:30 - 13:00	3.50	DRLIN1	06	A	P	3996	RUN IN HOLE WITH SAME DRILLING BHA TO 134' TRIP IN HOLE ON DP FROM 134' TO 3997'

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	13:00 - 15:00	2.00	DRLIN1	02	D	P	3996	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 3,997' TO 4,154'. TAKING 30' SURVEYS PER HALIBURTON RANGING CREW WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K MUD WT 9.3PPG VIS 71
	15:00 - 15:45	0.75	DRLIN1	05	A	P	4153	CIRC. 2 BOTTOMS UP PRIOR TO TOO H AND RANGING RUN. OBTAIN SPR
	15:45 - 16:00	0.25	DRLIN1	05	A	P	4153	FLOW CHECK (WELL STATIC), PUMP DRY JOB
	16:00 - 18:30	2.50	DRLIN1	06	B	P	4153	TRIP OUT OF HOLE FROM 4,154' TO 134' RACK BACK BHA
	18:30 - 19:00	0.50	DRLIN1	11	C	P	4153	PJSM WITH SLB, HALIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS
	19:00 - 0:00	5.00	DRLIN1	11	C	P	4153	2nd RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK, FROM 3997' TO 4154' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE
10/1/2017	0:00 - 0:30	0.50	DRLIN1	11	C	P	4153	POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE
	0:30 - 3:45	3.25	DRLIN1	06	A	P	4153	RUN IN HOLE WITH SAME DRILLING BHA TO 134' TRIP IN HOLE ON DP FROM 134' TO 4154'
	3:45 - 4:45	1.00	DRLIN1	02	D	P	4153	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4154' TO 4216'. TAKING 30' SURVEYS PER HALIBURTON RANGING CREW WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K MUD WT 9.6 PPG VIS 71
	4:45 - 5:30	0.75	DRLIN1	05	A	P	4215	CIRC. 2 BOTTOMS UP PRIOR TO TOO H AND RANGING RUN. OBTAIN SPR
	5:30 - 5:45	0.25	DRLIN1	05	A	P	4215	FLOW CHECK (WELL STATIC), PUMP DRY JOB
	5:45 - 9:30	3.75	DRLIN1	06	B	P	4215	TRIP OUT OF HOLE FROM 4,216' TO 134' RACK BACK BHA
	9:30 - 10:00	0.50	DRLIN1	11	C	P	4215	PJSM WITH SLB, HALIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS

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	10:00 - 16:00	6.00	DRLIN1	11	C	P	4215	3RD RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK, FROM 4154' TO 4216' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE. (1st RUN WAS 2" TOOL IT DID NOT GET RELIABLE DATA, THEN RAN 4.5" TOOL AND IT GOT GOOD DATA.)
	16:00 - 16:45	0.75	DRLIN1	06	B	P	4215	MAKE UP BIT, MOTOR, MONELS AND SCRIBE MWD.
	16:45 - 19:00	2.25	DRLIN1	06	B	P	4215	TIH TO 4,216' BREAK CIRC.
	19:00 - 20:00	1.00	DRLIN1	02	B	P	4215	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,216' TO 4,280'. TAKING 30' SURVEYS PER HALIBURTON RANGING CREW WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K MUD WT 9.6 PPG VIS 71
	20:00 - 20:30	0.50	DRLIN1	05	A	P	4279	CIRCULATE 2 BOTTOMS UP.
	20:30 - 20:45	0.25	DRLIN1	06	B	P	4279	CHECK FLOW (WELL STATIC) PUMP SLUG
	20:45 - 23:30	2.75	DRLIN1	06	B	P	4279	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT.
	23:30 - 0:00	0.50	DRLIN1	11	C	P	4279	PJSM WITH SLB, HALIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS.
10/2/2017	0:00 - 5:00	5.00	DRLIN1	11	C	P	4279	4th RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK, FROM 4216' TO 4280' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE.
	5:00 - 8:30	3.50	DRLIN1	06	A	P	4279	RUN IN HOLE WITH SAME DRILLING BHA TO 134' TRIP IN HOLE ON DP FROM 134' TO 4280'
	8:30 - 9:30	1.00	DRLIN1	02	D	P	4279	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,280' TO 4,342'. TAKING 30' SURVEYS PER HALIBURTON RANGING CREW WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K MUD WT 9.6 PPG VIS 71
	9:30 - 10:30	1.00	DRLIN1	05	A	P	4341	CIRC. 2 BOTTOMS UP PRIOR TO TOOH AND RANGING RUN. OBTAIN SPR
	10:30 - 10:45	0.25	DRLIN1	05	A	P	4341	FLOW CHECK (WELL STATIC), PUMP DRY JOB
	10:45 - 13:30	2.75	DRLIN1	06	B	P	4341	TRIP OUT OF HOLE FROM 4,342' TO 134' RACK BACK BHA
	13:30 - 14:00	0.50	DRLIN1	11	C	P	4341	PJSM WITH SLB, HALIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS

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	14:00 - 17:00	3.00	DRLIN1	11	C	P	4341	5th RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK, FROM 4280' TO 4342' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE.
	17:00 - 17:15	0.25	DRLIN1	07	A	P	4341	SERVICE TOPDRIVE AND DRAWWORKS
	17:15 - 18:00	0.75	DRLIN1	06	B	P	4341	MAKE UP BIT, MOTOR, MONELS AND SCRIBE MWD.
	18:00 - 20:30	2.50	DRLIN1	06	B	P	4341	TIH TO 4,310' BREAK CIRC.
	20:30 - 21:30	1.00	DRLIN1	02	B	P	4341	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,342' TO 4,407'. TAKING 30' SURVEYS PER HALIBURTON RANGING CREW
								WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K
								MUD WT 9.6 PPG VIS 71 STARTED GETTING CEMENT BACK OVER SHAKERS, WE ARE 43' IN SUSSEX.
	21:30 - 22:00	0.50	DRLIN1	05	A	P	4406	CIRCULATE 2 BOTTOMS UP.
	22:00 - 22:30	0.50	DRLIN1	06	B	P	4406	CHECK FLOW (WELL STATIC) PUMP SLUG
	22:30 - 0:00	1.50	DRLIN1	06	B	P	4406	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT.
10/3/2017	0:00 - 1:30	1.50	DRLIN1	06	B	P	4406	TRIP OUT OF HOLE FROM 699' TO 134' RACK BACK BHA
	1:30 - 2:30	1.00	DRLIN1	11	C	P	4406	PJSM WITH SLB, HALIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS
	2:30 - 5:00	2.50	DRLIN1	11	C	P	4406	6th RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK, FROM 4342' TO 4407' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE.
	5:00 - 5:30	0.50	DRLIN1	06	B	P	4406	MAKE UP BIT, MOTOR, MONELS AND SCRIBE MWD.
	5:30 - 8:30	3.00	DRLIN1	06	B	P	4406	TIH TO 4,310' BREAK CIRC.
	8:30 - 9:45	1.25	DRLIN1	02	B	P	4406	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,407' TO 4,470'. TAKING 30' SURVEYS PER HALIBURTON RANGING CREW
								WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 500 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE 7000K OFF BOTTOM - 4K
								MUD WT 9.6 PPG VIS 71
	9:45 - 10:45	1.00	DRLIN1	05	A	P	4469	CIRCULATE 2 BOTTOMS UP.
	10:45 - 11:00	0.25	DRLIN1	06	B	P	4469	CHECK FLOW (WELL STATIC) PUMP SLUG
	11:00 - 14:30	3.50	DRLIN1	06	B	P	4469	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT.

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	14:30 - 15:30	1.00	DRLIN1	11	C	P	4469	PJSM WITH SLB, HALIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS
	15:30 - 18:30	3.00	DRLIN1	11	C	P	4469	7th RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK, FROM 4407' TO 4470' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE.
	18:30 - 19:00	0.50	DRLIN1	06	B	P	4469	MAKE UP BIT, MOTOR, MONELS AND SCRIBE MWD.
	19:00 - 21:30	2.50	DRLIN1	06	B	P	4469	TIH TO 4,470' BREAK CIRC.
	21:30 - 23:30	2.00	DRLIN1	02	B	P	4469	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,470' TO 4,550'. TAKING 30' SURVEYS PER HALIBURTON RANGING CREW
								WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 500 ON/OFF PSI - 3,500/ 3,050 PSI DIFF - 450 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE-- 7000K OFF BOTTOM - 4K MUD WT 9.6 PPG VIS 71
	23:30 - 0:00	0.50	DRLIN1	05	C	P	4549	PUMP SWEEP AND CIRC. 2 BOTTOMS UP.
10/4/2017	0:00 - 0:45	0.75	DRLIN1	06	B	P	4549	CHECK FLOW (WELL STATIC) PUMP SLUG
	0:45 - 3:15	2.50	DRLIN1	06	B	P	4549	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT.
	3:15 - 6:00	2.75	DRLIN1	06	B	P	4549	M/U SURVEY BHA, TIH TO 4,550'. (INSERT BIT, BIT SUB, & MONELS GYRO)
	6:00 - 7:30	1.50	DRLIN1	05	E	P	4549	TAKE SURVEYS @ 4550', 4440', 4430' AND 4420'
	7:30 - 8:00	0.50	DRLIN1	05	A	P	4549	CIRCULATE 2 BOTTOMS UP AND FLOW CHECK WELL
	8:00 - 10:30	2.50	DRLIN1	06	B	P	4549	TOOH L/D SURVEY BHA
	10:30 - 11:00	0.50	DRLIN1	11	C	P	4549	PJSM WITH SLB, HALLIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS
	11:00 - 15:15	4.25	DRLIN1	11	C	P	4549	8th RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK, FROM 4407' TO 4470' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE.
	15:15 - 16:15	1.00	DRLIN1	06	B	P	4549	MAKE UP BIT, MOTOR, MONELS. SWAP OUT MWD TOOLS AND SCRIBE TO MOTOR
	16:15 - 18:30	2.25	DRLIN1	06	B	P	4549	TIH TO 4,470' BREAK CIRC.
	18:30 - 19:45	1.25	DRLIN1	02	B	P	4549	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,550' TO 4,620 TAKE 30' SURVEYS PER HALLIBURTON RANGING CREW WOB - 10-22K RPM - 60 - 70 MOTOR RPM - 175 GPM - 600 ON/OFF PSI - 4,070/ 3,770 PSI DIFF - 300 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE-- 7K OFF BOTTOM - 4K MUD WT 9.7 PPG VIS 86
	19:45 - 20:30	0.75	DRLIN1	05	C	P	4619	PUMP SWEEP AND CIRC. 2 BOTTOMS UP.
	20:30 - 0:00	3.50	DRLIN1	06	A	P	4619	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT.

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
10/5/2017	0:00 - 2:30	2.50	DRLIN1	06	B	P	4619	M/U SURVEY BHA, TIH TO 4,620'. (INSERT BIT, BIT SUB, & MONELS GYRO)
	2:30 - 3:15	0.75	DRLIN1	05	E	P	4619	TAKE SURVEYS @ 4620', 4610', 4600' AND 4588'. SURVEYS CONSISTANT WITH AS DRILLED.
	3:15 - 4:00	0.75	DRLIN1	05	A	P	4619	CIRCULATE 2 BOTTOMS UP AND FLOW CHECK WELL
	4:00 - 6:45	2.75	DRLIN1	06	B	P	4619	TOOH L/D SURVEY BHA
	6:45 - 7:00	0.25	DRLIN1	11	C	P	4619	PJSM WITH SLB, HALLIBURTON AND PD, ON R/U WIRELINE AND RUNNING RANGING TOOLS
	7:00 - 11:45	4.75	DRLIN1	11	C	P	4619	9th RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK, FROM 4407' TO 4470' POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE.
	11:45 - 12:15	0.50	DRLIN1	06	B	P	4619	MAKE UP BIT, MOTOR, MONELS. SWAP OUT MWD TOOLS AND SCRIBE TO MOTOR
	12:15 - 14:45	2.50	DRLIN1	06	B	P	4619	TIH TO 4,620' BREAK CIRC.
	14:45 - 16:00	1.25	DRLIN1	02	B	P	4619	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,620' TO 4,680' TAKE 30' SURVEYS PER HALLIBURTON RANGING. WOB - 10-12 RPM - 60 MOTOR RPM - 175 GPM - 500 ON/OFF PSI - 3,225/ 2,970 PSI DIFF - 300 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE-- 7K OFF BOTTOM - 4K MUD WT 9.8 PPG VIS 86
	16:00 - 17:30	1.50	DRLIN1	05	C	P	4679	PUMP SWEEP AND CIRC. 2 BOTTOMS UP. OBTAIN SPR WITH BOTH PUMPS. FLOW CHECK WELL.
	17:30 - 19:45	2.25	DRLIN1	06	A	P	4679	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT.
	19:45 - 21:30	1.75	DRLIN1	05	E	P	4679	M/U SURVEY BHA, TIH TO 2,062'. (INSERT BIT, BIT SUB, & MONELS GYRO)
	21:30 - 22:00	0.50	DRLIN1	09	A	P	4679	HANG BLOCKS AND SLIP AND CUT DRILLING LINE
	22:00 - 23:45	1.75	DRLIN1	06	B	P	4679	RIH WITH SURVEY BHA FROM 2,062 TO 4,680.
	23:45 - 0:00	0.25	DRLIN1	05	E	P	4679	TAKE SURVEYS @ 4,672 AND 4,662.
10/6/2017	0:00 - 2:00	2.00	DRLIN1	05	E	P	4679	TAKE SURVEYS @ 4,652 AND 4,640.
	2:00 - 2:15	0.25	DRLIN1	05	A	P	4679	CIRCULATE BOTTOMS UP. FLOW CHECK WELL AND SLUG PIPE.
	2:15 - 4:15	2.00	DRLIN1	06	B	P	4679	TOOH L/D SURVEY BHA
	4:15 - 4:30	0.25	DRLIN1	11	C	P	4679	PJSM WITH SLB AND HALLIBURTON ON RIGGING UP AND RUNNING WIRELINE RANGING TOOLS.
	4:30 - 7:45	3.25	DRLIN1	11	C	P	4679	10th RUN WITH RANGING TOOLS ON SLB WIRELINE. POOH WITH TOOLS LAY RANGING TOOLS TO THE SIDE.
	7:45 - 8:30	0.75	DRLIN1	06	B	P	4679	MAKE UP BIT, MOTOR, MWD AND MONELS.
	8:30 - 11:00	2.50	DRLIN1	06	B	P	4679	TIH TO 4,680 BREAK CIRC..

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	11:00 - 12:00	1.00	DRLIN1	01	B	P	4679	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,680 TO 4,710 WOB - 10-12 RPM - 60 MOTOR RPM - 175 GPM - 500 ON/OFF PSI - 3,225/ 2,970 PSI DIFF - 300 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE-- 7K OFF BOTTOM - 4K MUD WT 9.7 PPG VIS 86
	12:00 - 12:45	0.75	DRLIN1	05	C	P	4709	PUMP SWEEP AND CIRC. 2 BOTTOMS UP. FLOW CHECK WELL. SLUG PIPE.
	12:45 - 16:30	3.75	DRLIN1	06	A	P	4709	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT. CLEAR AND CLEAN FLOOR OF ALL EXCESS VENDORS EQUIPMENT.
	16:30 - 19:30	3.00	DRLIN1	05	E	P	4709	M/U SURVEY BHA, TIH TO 4,710'. (INSERT BIT, BIT SUB, & MONELS GYRO)
	19:30 - 20:45	1.25	DRLIN1	05	E	P	4709	TAKE SURVEYS @ 4,702, 4,692 AND 4,682.
	20:45 - 21:15	0.50	DRLIN1	05	A	P	4709	CIRCULATE BOTTOMS UP AND FLOW CHECK WELL SLUG PIPE.
	21:15 - 23:00	1.75	DRLIN1	06	B	P	4709	TOOH L/D SURVEY BHA.
	23:00 - 23:15	0.25	DRLIN1	11	C	P	4709	PJSM WITH SLB AND HALLIBURTON ON R/U WIRELINE AND RUNNING RANGING TOOLS.
	23:15 - 0:00	0.75	DRLIN1	11	C	P	4709	11th RUN WITH RANGING TOOLS WITH SLB WIRELINE TRUCK. POOH WITH RANGING TOOLS AND LAY OFF TO THE SIDE.
10/7/2017	0:00 - 2:15	2.25	DRLIN1	11	C	P	4709	POOH WITH RANGING TOOLS ON SCHLUMBERGER E-LINE UNIT.
	2:15 - 3:00	0.75	DRLIN1	06	B	P	4709	MAKE UP BIT, MOTOR, MONELS AND MWD.
	3:00 - 5:30	2.50	DRLIN1	06	B	P	4709	TIH TO 4,710 BREAK CIRC.
	5:30 - 6:15	0.75	DRLIN1	02	B	P	4709	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,710 TO 4,740' TAKE 30' SURVEYS PER HALLIBURTON RANGING. WOB - 10-12 RPM - 60 MOTOR RPM - 175 GPM - 500 ON/OFF PSI - 3,225/ 2,970 PSI DIFF - 300 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE-- 7K OFF BOTTOM - 4K MUD WT 9.6 PPG VIS 86
	6:15 - 7:15	1.00	DRLIN1	05	C	P	4739	PUMP SWEEP AND CIRC. 2 BOTTOMS UP. OBTAIN SPR WITH BOTH PUMPS. FLOW CHECK WELL.
	7:15 - 11:00	3.75	DRLIN1	06	A	P	4739	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT.
	11:00 - 11:30	0.50	DRLIN1	05	E	P	4739	M/U SURVEY BHA, TIH TO 2,906 AND FILL PIPE. (INSERT BIT, BIT SUB, & MONELS GYRO)
	11:30 - 13:45	2.25	DRLIN1	06	B	P	4739	RIH WITH SURVEY BHA FROM 2,609 TO 4,740.
	13:45 - 14:30	0.75	DRLIN1	05	E	P	4739	TAKE SURVEYS @ 4,738, 4,730', AND 4,720'.
	14:30 - 15:00	0.50	DRLIN1	07	A	P	4739	SERVICE RIG.
	15:00 - 15:15	0.25	DRLIN1	05	A	P	4739	CIRCULATE BOTTOMS UP AND FLOW CHECK WELL. SLUG PIPE.

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	15:15 - 18:15	3.00	DRLIN1	06	B	P	4739	TOOH L/D SURVEY BHA. CHANGE OUT ROTATING HEAD RUBBER DUE TO EXCESSIVE WEAR.
	18:15 - 18:45	0.50	DRLIN1	11	C	P	4739	PJSM WITH SLB AND HALLIBURTON ON R/U WIRELINE AND RUNNING RANGING TOOLS.
	18:45 - 21:15	2.50	DRLIN1	11	C	P	4739	12th RUN WITH RANGING TOOLS WITH SLB E-LINE TRUCK. SHOOT SURVEYS AND CORRELATE WITH AS DRILLED. POOH WITH RANGING TOOLS AND LAY OFF TO THE SIDE.
	21:15 - 22:30	1.25	CSGIN1	12	A	P	4739	PULL WEAR BUSHING AND INSTALL TRIP NIPPLE. PRE-JOB WITH NOBLE CASING
	22:30 - 0:00	1.50	CSGIN1	12	C	P	4739	RUN 7" 26# P-110 LTC CASING TO 894 AT MIDNIGHT. JOB SUMMARY: TOP FILLING ON EVERY JT. SHOE DEPTH@4,736. FLOAT COLLAR TOP@ 4,691' RAN 71 SCEPTOR SUPPLY, 7"x 8.25" OMD CENTRALIZERS, ONE ON EVERY JT TO 250' INSIDE SURFACE CASING. LAND AND CONFIRM THAT HANGER IS PROPERLY SEATED IN BOWL.
10/8/2017	0:00 - 0:15	0.25	CSGIN1	12	C	P	4739	RUN 7" 26# P-110 LTC CASING TO 1,237 JOB SUMMARY: TOP FILLING ON EVERY JT. SHOE DEPTH@4,736. FLOAT COLLAR TOP@ 4,691' RAN 71 SCEPTOR SUPPLY, 7"x 8.25" OMD CENTRALIZERS, ONE ON EVERY JT TO 250' INSIDE SURFACE CASING. LAND AND CONFIRM THAT HANGER IS PROPERLY SEATED IN BOWL.
	0:15 - 0:45	0.50	CSGIN1	23		S	4739	SAFETY STAND DOWN FOLLOWING DROPPED JOINT OF CASING FROM SKATE TO GROUND LEVEL.
	0:45 - 4:15	3.50	CSGIN1	12	C	P	4739	RUN 7" 26# P-110 LTC CASING FROM 1,237 TO 4,736 JOB SUMMARY: TOP FILLING ON EVERY JT. SHOE DEPTH@4,736. FLOAT COLLAR TOP@ 4,691' RAN 71 SCEPTOR SUPPLY, 7"x 8.25" OMD CENTRALIZERS, ONE ON EVERY JT TO 250' INSIDE SURFACE CASING. LAND AND CONFIRM THAT HANGER IS PROPERLY SEATED IN BOWL.
	4:15 - 6:30	2.25	CSGIN1	05	A	P	4739	PICK UP CEMENT HEAD. FILL PIPE. BREAK CIRCULATION AND STAGE PUMPS UP TO 8 BPM @ 700 PSI.

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	6:30 - 10:00	3.50	CSGIN1	12	E	P	4739	CEMENT 7" INTERMEDIATE CASING AT 4,736'. PRESSURE TEST LINES TO 4600 PSI. PUMP 40 BBLS OF 10.9# MUDPUSH II SPACER. DROP BOTTOM PLUG AND PUMP 88 BBLS (280 SKS) OF 12# - 1.83 CUFT/SK - 7.47 GAL/SK - LEAD CEMENT FOLLOWED BY 13 BBLS (60 SKS) OF 15.8# - 1.58 CUFT/SK - 6.37 GAL/SK - TAIL. DROP TOP PLUG AND DISPLACE WITH 180 BBLS OF FRESH WATER BUMP PLUG AND PRESSURE TEST CASING TO 2,200 FOR 30 MINUTES. BLEED OFF PRESSURE AND CHECK FLOATS.
	10:00 - 10:15	0.25	CSGIN1	12	B	P	4739	FLUSH LINES RIG DOWN CEMENTERS. FLUSH SURFACE LINES SHAKERS, GAS BUSTER ETC., ETC..
	10:15 - 11:15	1.00	CSGIN1	24	A	P	4739	INSTALL PACK OFF AND TEST TO 5000 PSI.
	11:15 - 15:15	4.00	CSGIN1	12	A	P	4739	CLEAN PITS OF OBM AND PREPARE PITS FOR LSND MUD. FILL PITS WITH NEW MUD SUSTEM.
	15:15 - 16:45	1.50	CSGIN1	12	D	P	4739	PJSM WITH TEST CREW. TEST ORBIT VALVE TO 250 / 2,500. ATTEMPT TO TEST WEATHERFORD CHOKE MANIFOLD AND GAS SEPARATOR. SEPARATOR LEAKING IN TARGETED 90.
	16:45 - 21:15	4.50	CSGIN1	02	D	P	4739	PICK UP 6 1/8 TRI-CONE INSERT BIT, BICO 1.5 ADJUSTABLE MOTOR, AND MWD AND RIH TAGGING UP ON CEMENT STRINGERS @ 4670.
	21:15 - 22:30	1.25	DRLPRV	02	D	P	4739	WASH CEMENT STRINGERS TO 4,692. DRILL FLOAT COLLAR AND CEMENT TO 4,721 WHILE BRINGING NEW MUD SYSTEM UP TO SPEC.
	22:30 - 0:00	1.50	DRLPRV	02	B	P	4739	CIRCULATE AND CONDITION MUD SYSTEM TO 10 PPG. WITH 40-45 VIS.
10/9/2017	0:00 - 5:15	5.25	DRLPRV	05	A	P	4739	CIRC. CONDITION MUD
	5:15 - 6:15	1.00	DRLPRV	02	B	P	4739	DRILL FLOAT SHOE AT 4,736 AND CLEAN OUT OLD HOLE TO 4,740. DRILL NEW HOLE F/ 4,740' TO 4,745
	6:15 - 7:00	0.75	DRLPRV	05	A	P	4744	CIRCULATE HOLE CLEAN FOR FIT.
	7:00 - 7:45	0.75	DRLPRV	16	B	P	4744	PERFORM FIT TO 12.5 EMW. TEST MW--10, TARGET MW--12.5 MD 4,745 TVD-4,689 PUMP RATE 2.9 GPM TOTAL PUMPED .34 BBLS. APPLIED CASING PRESSURE--610 PRESSURE MAINTAINED FOR 10 MINUTES: 1 MINUTES-604 2 MINUTES-608 3 MINUTES-609 4 MINUTES-611 5 MINUTES-614 6 MINUTES-617 7 MINUTES-620 8 MINUTES-624 9 MINUTES-627 10 MINUTES-630

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:45 - 9:30	1.75	DRLPRV	01	B	P	4744	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,740 TO 4,765 WOB - 4 RPM - 45 MOTOR RPM - 75 GPM - 290 ON/OFF PSI - 1,050/ 1,000 PSI DIFF - 50 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE-- 4K OFF BOTTOM - 3.5K MUD WT 10 PPG VIS 42
	9:30 - 10:15	0.75	DRLPRV	05	C	P	4764	PUMP SWEEP AND CIRC. 2 BOTTOMS UP. FLOW CHECK WELL. SLUG PIPE.
	10:15 - 14:15	4.00	DRLPRV	06	A	P	4764	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT. CLEAR AND CLEAN FLOOR OF ALL EXCESS VENDORS EQUIPMENT.
	14:15 - 18:30	4.25	DRLPRV	05	E	P	4764	M/U SURVEY BHA, TIH TO 4,761'. (INSERT BIT, BIT SUB, & MONELS GYRO)
	18:30 - 19:45	1.25	DRLPRV	05	E	P	4764	TAKE SURVEYS @ 4,765, 4,757 AND 4,732.

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	19:45 - 20:45	1.00	DRLPRV	05	A	P	4764	<p>CIRCULATE BOTTOMS UP AND FLOW CHECK/SLUG PIPE.</p> <p>CONDUCTED OPERATIONAL FIT TEST ON WEATHERFORD CHOKE AND MGS SYSTEM:</p> <p>TEST 1: INTERNAL INTEGRITY OF CIRCULATING SYSTEM</p> <p>A) MUD PUMPS SHUT DOWN. B) THE FLOWLINE ORBIT VALVE WAS SHUT AND THE ORBIT VALVE TO WEATHERFORDS OUTSIDE CHOKE/ MUD GAS SEPARATOR OPENED. C) FLOW PATH FROM THE ORBIT VALVE WAS DIRECTED TO THE OUTSIDE CHOKE SYSTEM, MGS, OUT THE MGS TO THE TRANSFER PUMP AND LINED UP BACK TO THE RIGS SHALE SHAKERS. **** NOT LEAKS WERE DETECTED UP TO THE TRANSFER PUMP, BUT THE PUMP FAILED TO MOVE FLUID. THERE WAS FLUID PRESENT AT THE INTAKE SIDE OF THIS PUMP INDICATING A POSSIBLE IMPELLER DISCONNECT INSIDE THE SNAIL. ***** FAILED TEST</p> <p>TEST 2: FUNCTIONALITY OF SUPER CHOKES "A" AND "B" AND GAUGE ACCURACY</p> <p>A) BOTH CHOKE "A" AND "B" WERE FUNCTION TESTED TO THE FULL OPEN AND CLOSED POSITION FROM THE REMOTE PANEL ON THE RIG FLOOR. ***PASSED B) BOTH CHOKES WERE PINCHED BACK TO HOLD 500 PSI BACKPRESSURE WITH THE RIG PUMPING AT 40 SPM (2.8 BPM) ***PASSED C) GAUGE PRESSURE READINGS IN 100 PSI INCREMENTS WERE COMPARED BETWEEN THE MANUAL ON THE OUTSIDE CHOKE TO THE RIG FLOOR PANEL. *****PASSED</p>
	20:45 - 0:00	3.25	DRLPRV	06	B	P	4764	<p>TOOH L/D SURVEY BHA. *****PERFORM, " KICK WHILE TRIPPING DRILL", AT BHA, FOLLOWED BY AFTER ACTION REVIEW WITH DRILL CREW, DIRECTIONAL DRILLER AND MWD REP. *****</p>
10/10/2017	0:00 - 2:45	2.75	DRLIN1	11	C	P	4764	PJSM FOR RUN #13 WITH RANGING TOOLS ON SLB E-LINE. RIH AND CHECK SHOT SURVEYS.
	2:45 - 3:00	0.25	DRLIN1	11	C	P	4764	POOH WITH RANGING TOOLS ON SCHLUMBERGER E-LINE UNIT AND LAY OFF TO SIDE.
	3:00 - 3:15	0.25	DRLPRV	06	B	P	4764	MAKE UP BIT, MOTOR, MONELS AND MWD.
	3:15 - 7:00	3.75	DRLPRV	06	B	P	4764	TIH TO 4,710 BREAK CIRC.

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:00 - 9:15	2.25	DRLPRV	02	B	P	4764	DRILL 8 1/2 PRODUCTION VERTICAL HOLE SECTION FROM 4,765 TO 4,780' WOB - 4 RPM - 45 MOTOR RPM - 75 GPM - 290 ON/OFF PSI - 1,050/ 1,000 PSI DIFF - 50 PSI HOOKLOAD UP/DOWN/ROT - 80 / 70 / 75 TORQUE-- 4K OFF BOTTOM - 3.5K MUD WT 10 PPG VIS 40
	9:15 - 10:30	1.25	DRLPRV	05	C	P	4779	PUMP SWEEP AND CIRC. BOTTOMS UP WHILE PUMPING THROUGH WEATHERFORD CHOKE, MGS AND BACK TO THE FLOWLINE. EQUIPMENT WORKED PER DESIGN. FLOW CHECK WELL AND SLUG PIPE.
	10:30 - 13:45	3.25	DRLPRV	06	A	P	4779	TOOH TO BHA, RACK BACK MONELS, L/D MOTOR AND BIT.
	13:45 - 15:15	1.50	DRLPRV	05	E	P	4779	M/U SURVEY BHA AND TIH TO 2,855. FILL PIPE AND INSTALL ROTATING HEAD. (INSERT BIT, BIT SUB, & MONELS GYRO)
	15:15 - 16:45	1.50	DRLPRV	06	B	P	4779	RIH WITH SURVEY BHA FROM 2,855 TO 4,780.
	16:45 - 17:45	1.00	DRLPRV	05	E	P	4779	TAKE SURVEYS @ 4,778, 4,770', AND 4,765'.
	17:45 - 18:00	0.25	DRLPRV	05	A	P	4779	CIRCULATE BOTTOMS UP AND FLOW CHECK WELL. SLUG PIPE.
	18:00 - 21:15	3.25	DRLPRV	06	B	P	4779	TOOH L/D SURVEY BHA.
	21:15 - 22:00	0.75	DRLPRV	11	C	P	4779	PJSM WITH SLB AND HALLIBURTON ON R/U WIRELINE AND RUNNING RANGING TOOLS.
	22:00 - 0:00	2.00	DRLPRV	11	C	P	4779	14th RUN WITH RANGING TOOLS WITH SLB E-LINE TRUCK. SHOOT SURVEYS AND CORRELATE WITH AS DRILLED.
10/11/2017	0:00 - 0:45	0.75	DRLPRV	11	C	P	4779	14th RUN WITH RANGING TOOLS WITH SLB E-LINE TRUCK. SHOOT SURVEYS AND CORRELATE WITH AS DRILLED. POH AND LAY TOOLS TO SIDE.
	0:45 - 1:30	0.75	DRLPRV	06	B	P	4779	MAKE UP 6 1/8 BIT, MOTOR, MONELS AND MWD.
	1:30 - 4:00	2.50	DRLPRV	06	B	P	4779	TIH TO 4,780. CONDUCT KICK WHILE TRIPPING DRILL WITH AAR IN DOGHOUSE. SPR WITH BOTH PUMPS. READY PITS AND RIG FOR WELL ENTRY.
	4:00 - 5:30	1.50	DRLPRV	21	C	P	4779	WAITING FOR DAYLIGHT TOUR CREW ARRIVING FROM R&R TO CONDUCT A "PLANNING/CREW READINESS MEETING".
	5:30 - 6:30	1.00	DRLPRV	23		P	4779	MEETING WITH INCOMING CREW ON CURRENT OPERATIONS, WELL CONTROL CONTINGENCY PLANS WITH WEATHERFORD SECONDARY CHOKE AND MGS SYSTEM.

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	6:30 - 8:15	1.75	DRLPRV	02	B	P	4779	SLIDE DRILL F/ 4783' TO 4789.2' – DIFF PRESSURE INDICATED SOFT TOUCH PUMP PRESSURE – 670 PSI DIFFERENTIAL PRESSURE - 65 PSI G/L – 0, WOB 15, ADAMSON 35C-28HZ WELL FLOWING @ 600 PSI. PU AND SOFT TOUCH AGAIN - DIFFERENTIAL PRESSURE SHOWED A LOSS OF 300 PSI WITH BIT ON BOTTOM. STARTED SHOWING LOSSES ON PASON. TARGET WELL BROACHED.
	8:15 - 10:00	1.75	DRLPRV	05	B	P	4788	SPACED OUT AND COMMENCED PUMPIING DOWN ANNULUS AND DP TO FILL ADAMSON 35C-28HZ. PRESSURE AT ADAMSON INCREASED FROM 611 PSI TO 694 PSI. ADAMSON START FLOWING GAS TO OPEN TOP TANK TO KEEP PRESSURE BELOW 700 PSI. INCREASED CHOKE IN ADAMSON TO 1" CHOKE.
	10:00 - 10:30	0.50	DRLPRV	06	K	P	4788	SHUT IN MEGUIRE #1 AND ADAMSON 35C-28HZ AND MONITOR PRESSURE. Time (min) Meguire #1 (psi) Adamson (psi) 0 60 53 1 55 54 2 55 51 10 0 44 15 0 43 20 0 41 25 0 40 30 0 39
	10:30 - 11:15	0.75	DRLPRV	06	K	P	4788	DECISION WAS MADE FROM APC OFFICE TO NOT BLEED ADAMSON WELL, IT WILL REMAIN SHUT IN.
	11:15 - 11:45	0.50	DRLPRV	06	K	P	4788	FLOW CHECK MEGUIRE #1 NO FLOW. LINE BACK UP ON TRIP TANKS WELL TOOK 11 BBLs BEFORE HAVING RETURNS.
	11:45 - 12:30	0.75	DRLPRV	05	A	P	4788	STAGE UP PUMPS TO MILLING RATES TO DETERMINE ECD EFFECT ON LOSS RATE AND SURFACE PRESSURES. PUMP RATE PUMP PSI G/L ADAMSON PSI 72 260 0 57 100 325 0 60 125 408 0 68 165 530 0 95 175 546 0 108 182 575 -9 157
	12:30 - 13:15	0.75	DRLPRV	05	J	P	4788	FLOW CHECK (NO FLOW) PUMP DRY JOB.
	13:15 - 17:15	4.00	DRLPRV	06	A	P	4788	PULL MWD AND RACK BACK COLLARS F/ 4,790 TO SURFACE. 100 FT. PER MINUTE
	17:15 - 21:15	4.00	DRLPRV	06	A	P	4788	P/U 6" MILL, MOTOR, MONEL COLLARS, AND STRING MAGNET CHANGED MWD NEW TOOL HAS TOOLFACES AND ANNULAR PRESSURE ONLY. TIH TO 4,789
	21:15 - 0:00	2.75	DRLPRV	06	A	P	4788	MILL WINDOW IN ADAMSON 35C-28HZ FROM 4,789 TO 4,794.
10/12/2017	0:00 - 0:45	0.75	DRLPRV	06	A	P	4793	MILL WINDOW IN ADAMSON 35C-28HZ FROM 4,794 TO 4,796

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	0:45 - 1:45	1.00	DRLPRV	05	C	P	4795	PUMP SWEEP. SLUG PIPE AND FLOW CHECK WELL.
	1:45 - 6:00	4.25	DRLPRV	06	A	P	4795	POH LAYING DOWN ALL BHA IN PREPARATION FOR ABANDONMENT CEMENT PLUGS.
	6:00 - 7:00	1.00	DRLPRV	06	A	P	4795	P/U MULE SHOE, 2 JOINTS 2 7/8 DP, WINDOW WATERMELON MILL, 2 7/8 DP, XO, 4" DP TO SURFACE.
	7:00 - 10:45	3.75	DRLPRV	06	A	P	4795	TIH WITH 4" DP. F/ 232' TO 4,736'. ROTATE STRING PRIOR TO GOING INTO OPEN HOLE @ 5 TO 30 RPM AND RECORD. GET STRING WTS. 5 RPM--2,400 UP / DOWN===110 / 81 10 RPM--2,700 15 RPM--2,900 20 RPM--3,000 25--RPM 3,200 30 RPM--3,300
	10:45 - 11:15	0.50	DRLPRV	05	A	P	4795	CIRC IN 7" CASING @ 4,720', STAGING PUMP UP TO VERIFY PRESSURES AND GAIN LOSS WITH THE ADAMSON WELL. P/U 110K, SO 81K, 10.3 PPG @ 165 GPM.
	11:15 - 13:15	2.00	DRLPRV	03	E	P	4795	TAG WINDOW @ 4,789' WORK TUBING INTO WINDOW. TORQUE LIMITERS SET ON TOP DRIVE @ 3,700. REAM WITH WATERMELON MILL FROM 4,789' TO 4,798', MAGNETS HAD GOOD SIGNS ON METAL. P/U 110K, SO 81K, 10.3 PPG @ 165 GPM. WATERMELON MILL BACK 69 FT. FROM END OF MULE SHOE.
	13:15 - 13:45	0.50	DRLPRV	03	E	P	4795	WASH DOWN INSIDE ADAMSOME WELL TO TOP OF FISH @ 4,977' WITH WATERMELON MILL AT 4,908. PULL BACK UP INSIDE 7' SHOE.
	13:45 - 15:15	1.50	DRLPRV	03	E	P	4795	PULLED BACK UP TO WINDOW @ 4,798' AND CLEANED WINDOW AREA WITH WATERMELON MILL.
	15:15 - 17:45	2.50	DRLPRV	06	C	P	4795	CHECK FLOW, TOOHO TO 2 7/8" DP AND PULLED ROTATING HEAD
	17:45 - 18:00	0.25	DRLPRV	07	A	P	4795	LUBE RIG
	18:00 - 20:15	2.25	DRLPRV	06	J	P	4795	LAY DOWN 2 7/8 PA6 DRILL PIPE AND WATERMELON MILL
	20:15 - 0:00	3.75	DRLPRV	06	J	P	4795	PICK UP AND RIH WITH TAM RETAINER ON 2 7/8 PA 6 TUBING AND 4 INCH DP. BREAK CIRCULATION AND CONFIRM SMALL ID ON RETAINER IS CLEAR ONCE PICKED UP. PUMP AT 1/2 BPM AT 50 PSI.
10/13/2017	0:00 - 2:15	2.25	DRLPRV	06	J	P	4795	RIH WITH TAM RETAINER TO 4,670 FILLING PIPE AT 4,952.
	2:15 - 6:00	3.75	DRLPRV	06	J	P	4795	DROP SETTING BALL AND CIRCULATE ON SEAT. ATTEMPT TO SET TAM RETAINER--TO NO AVAIL. DISCUSS OPTIONS WITH TOWN AND FIELD SUPERINTENDENT. DECISION MADE TO REVERSE CIRULATE IN AN ATTEMPT TO WASH DEBRIS OFF SEAT.
	6:00 - 7:15	1.25	DRLPRV	05	A	X	4795	R/U FOR REVERSE CIRC., ATTEMPT TO REVERSE CIRC. THROUGH TAM RETAINER. PUMP 10 BBLs NO CIRC. BACK THROUGH DRILL PIPE. DECISION WAS MADE TO TOOHO AND EVALUATE OPTIONS.
	7:15 - 11:30	4.25	DRLPRV	06	H	X	4795	TOOH WITH TAM RETAINER @ 100'/MIN TO PREVENT SWABBING.

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

End date: 10/15/2017

Active datum: RKB @4,916.00usft (above Mean Sea Level)

UWI: SW/NW/0/2/N/65/W/21/0/0/6/PM/0/0/0/0/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	11:30 - 13:45	2.25	DRLPRV	06	H	X	4795	PJSM WITH RIG CREW AND NOBLE CASING CREW, R/U AND L/D 2 7/8" TUBING
	13:45 - 15:00	1.25	DRLPRV	22	L	X	4795	BREAK APART TAM RETAINER FINDING FORMATION AND METAL DEBRIS ON TOP OF BALL FROM REVERSE CIRCULATING WHILE ATTEMPTING TO FLUSH BALL SEAT AREA.
	15:00 - 21:45	6.75	DRLPRV	21	D	X	4795	EVALUATE OPTIONS WITH DRILLING TEAM AND AGREE ON WEATHERFORD RETAINER. WAIT ON RETAINER TO BE DELIVERED TO SITE.
	21:45 - 0:00	2.25	DRLPRV	06	H	X	4795	PJSM WITH WEATHERFORD. STRAP AND PICK UP TOOLS WITH NOBLE CASING AND RIH. BREAK CIRCULATION @ 900 FT. TO CONFIRM ABILITY TO CIRCULATE AND FLUSH PIPE. CONTINUE TO RIH.
10/14/2017	0:00 - 4:45	4.75	CSGPRO	06	H	X	4795	CONTINUE TO RIH WITH WEATHERFORD CEMENT RETAINER WORKING APP. 5K DOWN AND RH TORQUE TO GET INTO POSITION. POSITION RETAINER AT 4,844 AND DROP SETTING BALL.
	4:45 - 5:45	1.00	CSGPRO	05	C	P	4795	TOOH TO P/U WEATHERFORD TOOL TO CIRCULATE THROUGH RETAINER
	5:45 - 8:30	2.75	CSGPRO	06	A	P	4795	TOOH TO 2 7/8" DRILL PIPE
	8:30 - 9:15	0.75	CSGPRO	06	A	P	4795	R/U NOBLE CASING CREW, P/U ONE STAND 2 7/8" DRILL PIPE, BREAK RETAINER RUNNING TOOL OFF. MAKE UP CEMENT STINGER.
	9:15 - 11:15	2.00	CSGPRO	06	A	P	4795	TIH WITH WEATHERFORD CEMENT STINGER.
	11:15 - 11:45	0.50	CSGPRO	05	A	P	4795	BREAK CIRCULATION AND PUMP AT 2 BPM TO GET PRESSURE BASELINE. P/U 102K, SO 88K, STRING WEIGHT WAS 90K.
	11:45 - 13:30	1.75	CSGPRO	12	B	P	4795	PJSM WITH SCHLUMBERGER CEMENTERS AND RIG CREW. RIG UP SCHLUMBERGER CEMENTERS. PUMP WITH RIG PUMPS TO GET A INJECTION RATE. 1/2 BPM @ 1750 PSI. MIX GAS BLOCK WITH TRUCKING SERVICE TRUCK FOR CEMENT.
	13:30 - 16:00	2.50	CSGPRO	12	G	P	4795	PRESSURE TEST LINES 250 PSI LOW, 4,000 PSI AND 7,000 PSI. SQUEEZE 10 BBLS 13 PPG MUD PUSH, 70 BBLS 15.8 PPG CEMENT, DISPLACE DRILL STRING WITH 10 BBLS 13 PPG MUD PUSH AND 39 BBLS WATER BASE MUD 10.3 PPG.
	16:00 - 17:30	1.50	CSGPRO	05	A	P	4795	STING OUT OF RETAINER PULLING 116K, CIRC. 10 BBLS WITH CEMENT TRUCK, CIRC. BOTTOMS UP WITH RIG PUMPS.
	17:30 - 18:30	1.00	CSGPRO	06	C	P	4795	RIG DOWN SCHLUMBERGER CEMENTERS IRON, TOOH TO 3,995'. OPENED UP ADAMSON WELL BLEED PSI OFF GOT 15 BBLS BACK AND NO FLOW.
	18:30 - 20:15	1.75	CSGPRO	05	A	P	4795	SHUT IN MEGUIRE WELL WITH HYDRIL. CIRCULATE MUD TO ADAMSON WELL UNTIL BALANCED MUD WT BETWEEN WELLS IS ACHIEVED .

US ROCKIES REGION
Operation Summary Report

Well: MEGUIRE #1

Spud date: 9/27/2017

Project: COLORADO-WELD-NAD83-UTM13

Site: MEGUIRE 5-21HZ PAD

Rig name no.: PRECISION 461/461

Event: DRILLING

Start date: 9/24/2017

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	20:15 - 21:30	1.25	CSGPRO	12	G	P	4795	PJSM WITH SCHLUMBERGER. PRESSURE TEST LINES TO 250/5,000. PUMP FINAL CEMENT SLEEPING BAG: 20 BBLS. MUDPUSH @ 13 PPG. 49 BBLS. 15.8 TAIL @ 1.17 YIELD AND 5.14 GAL/SK 20 BBLS. MUDPUSH @ 13 PPG. 20 BBLS. 10.3 PPG MUD SHUT DOWN PUMPS AND CONFIRM ZERO PRESSURE AGAINST ANNULAR. OPEN UP WELL AND POH WITH 3 STANDS OF DP.
	21:30 - 23:00	1.50	CSGPRO	12	G	P	4795	CBU SEEING SIGNS OF MUD PUSH AT SURFACE. PUMP DRY JOB
	23:00 - 23:15	0.25	CSGPRO	12	G	P	4795	RIG DOWN AND LAY DOWN ALL SCHLUMBERGER EQUIPMENT FROM RIG FLOOR
	23:15 - 0:00	0.75	CSGPRO	06	J	P	4795	POH WITH WEATHERFORD RETAINER RUNNING TOOL.
10/15/2017	0:00 - 2:30	2.50	CSGPRO	13	A	P	4795	WAIT ON CEMENT, POH WITH WEATHERFORD RETAINER RUNNING TOOL. BREAK DOWN AND LAY DOWN 3 JOINTS OF 2 7/8 TUBING AND WEATHERFORD RUNNING TOOL.
	2:30 - 4:00	1.50	CSGPRO	13	A	P	4795	WAIT ON CEMENT, PICK UP THREAD PROTECTOR ON OPEN ENDED DP. TIH TO 3,600.
	4:00 - 9:15	5.25	CSGPRO	13	A	P	4795	WAIT FOR FINAL ABANDONMENT PLUG TO SET PRIOR TO TAG AND PRESSURE TEST.
	9:15 - 9:30	0.25	CSGPRO	06	C	P	4795	TAGGED CEMENT @ 3,800' STAND ON PLUG WITH 10K.
	9:30 - 10:30	1.00	CSGPRO	05	A	P	4795	DISPLACE WELL OVER TO FRESH WATER.
	10:30 - 11:00	0.50	CSGPRO	05	C	P	4795	TEST CASING TO 3,000 PSI FOR 15 MINUTES. TEST GOOD.
	11:00 - 12:30	1.50	CSGPRO	06	A	P	4795	TOOH
	12:30 - 14:30	2.00	RDMO	14	A	P	4795	NIPPLE DOWN BOP
	14:30 - 16:00	1.50	RDMO	14	A	P	4795	INSTALL NIGHT CAP AND TEST TO 5,000 PSI RELEASE RIG @ 16:00 HRS