

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

Well: **CANNON RED W #15-6**

Spud date: 12/6/1992

Project: COLORADO-WELD-NAD83-UTM13

Site: CANNON RED W #15-6

Rig name no.: ENSIGN 122/122

Event: RE ENTER

Start date: 1/17/2017

End date: 2/3/2017

Active datum: RKB @5,009.00usft (above Mean Sea Level)

UWI: SE/NW/0/2/N/66/W/15/0/0/6/PM/N/1,980.00/W/0/1,980.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
10/19/2016	-							
1/13/2017	-							
1/17/2017	7:00 - 8:30	1.50	MIRU	01	A	P		ROAD ENSIGN RIG 122 TO LOCATION
	8:30 - 9:00	0.50	MIRU	23		P		HELD PRE RIG UP SAFETY MEETING WITH RIG CREW AND TRUCK DRIVERS
	9:00 - 15:30	6.50	MIRU	01	B	P		SPOT IN MUD TANKS, PIPE BASKETS MOTOR SHED, DRILLERS SHACK AND OTHER SUPPORT EQUIPMENT. NUBOP STACK. STAND UP DERRICK.
	15:30 - 16:30	1.00	MIRU	23		Z		WHILE STABBING THE CIRCULATING HEAD ONTO BOP STACK. THE CIRCULATING HEAD GOT COCKED ON THE BOLTS. RIG HAND WAS ATTEMPTING TO GET BOLTS TO LINE UP AND GOT HIS HAND PINCHED IN BETWEEN CIRCULATING HEAD AND BOLTS INJURING HIS HAND. SHUT DOWN AND PERFORM FIRST AID ON HIS HAND AND APPLY ICE PACK. CONTACTED TRAVIS FORDUCEY WITH APC. ENSIGN PUSHER CONTACTED THEIR SAFETY REP. HELD SAFETY STAND DOWN WITH CREW TO DETERMINE WHAT HAPPENED AND HOW TO KEEP IT FROM HAPPENING AGAIN, AND REITERATE THE IMPORTANCE OF SAFETY.
	16:30 - 0:00	7.50	MIRU	01	B	P		CONTINUE RIGGING UP. RU MUD GAS SEPARATOR AND FLARE LINE. RU CHOKE LINES. RU PUMPS.
1/18/2017	0:00 - 5:30	5.50	MIRU	01	B	P		CONTINUE TO RIG UP ENSIGN 122.
	5:30 - 6:00	0.50	MIRU	23		P		SAFETY MEETING @ SHIFT CHANGE
	6:00 - 8:00	2.00	ABANDP	22	J	X		ATTEMPT TO LOAD AND TEST 8-5/8" SURFACE CSG AND DRILLING RIG STACK. WHILE LOADING THE STACK FROM ABOVE, NOTICED WATER RISING IN THE CELLAR AROUND SURFACE CSG. KICK IN RIG PUMP AND ESTABLISH CIRCULATION. SAW COMMUNICATION TO CELLAR AROUND SURFACE CSG PUMP 5 BBLS AND SD. CALL APC AND SPOKE WITH MIKE LUTKIN AND RYAN HOLLINSHEAD.
	8:00 - 13:30	5.50	RDMO	01	E	P		RIG DOWN AND SKID RIG OFF TO THE SIDE OF THE LOCATION.
	13:30 - 15:30	2.00	SURFPR	22	J	P		RU MILLER HFI HYDRO-VAC. POTHOLE AROUND SURFACE CSG DOWN TO 13'9". FOUND 5/8" HOLE IN SURFACE CSG @ 11'9". CONTACT APC. DECIDED TO INSTALL A 16" CONDUCTOR PIPE OVER 8-5/8" SURFACE CSG AND CEMENT IT IN THE HOLE
	15:30 - 18:00	2.50	SURFPR	21	E	P		WAIT ON CONDUCTOR PIPE, TRACK HOE, AND WELDER.

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Event: RE ENTER		Start date: 1/17/2017		End date: 2/3/2017	
Active datum: RKB @5,009.00usft (above Mean Sea Level)			UWI: SE/NW/0/2/N/66/W/15/0/0/6/PM/N/1,980.00/W/0/1,980.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	18:00 - 21:00	3.00	SURFPR	22	J	P		WELDER ARRIVED. ALSO TRACK HOE & CONDUCTOR PIPE. WELDER FILLED OUT HOT WORK PERMIT. HAVE SAFETY MEETING AND REVIEW JSA'S. ESTABLISH RED ZONE AROUND WELLHEAD AREA. SET UP FIRE WATCH. PICK UP 16" CONDUCTOR PIPE WITH TRACK-HOE. CENTER OVER SURFACE CASING HEAD AND LOWER TO BOTTOM OFF BELL HOLE AT 13'9". WITH TRACK-HOE BUCKET, DRIVE CONDUCTOR PIE INTO GROUND ANOTHER 4' TO 17'6". NOT ABLE TO DRIVE ANY DEEPER DUE TO SPUDDING AGAINST SURFACE CEMENT. WELDER CUT CONDUCTOR PIPE OFF AT GROUND LEVEL. HYDRO-VAC CELLAR CLEAN. RELEASE WELDER AND CREWS. READY FOR CEMENT.
	21:00 - 0:00	3.00	SURFPR	21	E	P		WAIT ON SCHLUMBERGER CEMENTER. DUE TO ARRIVE IN THE MORNING AT 9:00 A.M. THURSDAY MORNING.
1/19/2017	0:00 - 5:30	5.50	REE	21	E	P		WAIT ON SCHLUMBERGER CEMENTING. COULD NOT GET THEM TO LOCATION AND SOONER DO TO D.O.T. TIME RESTRAINTS. RIG CREW CHANGING OUT VALVES ON STACK AND WORKING ON SUPPORT EQUIPMENT.
	5:30 - 6:00	0.50	REE	23		P		SAFETY MEETING
	6:00 - 13:00	7.00	REE	21	E	Z		SCHLUMBERGER SCHEDULED TO BE ON LOCATION @ 9:00 AM. I CALLED MIKE BLACK @ 10:00 AM HE TOLD ME THAT THE PUMP TRUCK WAS BROKE DOWN ON I-25. WAIT ON SHCLUMBERGER TO GET A DIFFERENT CREW TO LOCATION.
	13:00 - 13:30	0.50	REE	23		P		SAFETY MEETING
	13:30 - 14:00	0.50	REE	18	A	P		RU SCHLUMBERGER. PUMP 50 SX OF CLASS G CEMENT W/ 3% CACL @ 15.8 PPG W/ 1.5 YLD THROUGH HOLE IN 8-5/8" SURFACE CSG @ 11'9". FILL 16" CONDUCTOR PIPE TO SURFACE. BREAK OFF HOSE AND FILL IN HOLE AROUND CONDUCTOR PIPE FROM 13'9" TO 4' INSIDE CELLAR RING. RD SCHLUMBERGER.
	14:00 - 16:00	2.00	REE	13	B	P		INSTALL GRATES OVER CELLAR AND WAIT ON CEMENT TO FIRM UP BEFORE SPOTTING IN DRILLING RIG AS SAFETY PRECAUTION
	16:00 - 16:30	0.50	REE	23		P		SAFETY MEETING
	16:30 - 20:30	4.00	REE	01	B	P		SKID RIG OVER WELL. STAND UP DERRICK, CONNECT HYRAULIC LINES. FUNCTION TEST TOP DRIVE AND PIPE KICKER. LOAD DRILL PIPE ON RACKS AND TALLY.
	20:30 - 0:00	3.50	REE	13	B	P		WAIT ON CEMENT TO CURE FOR 24 HRS BEFORE NU STACK AND START RE ENTRY.
1/20/2017	0:00 - 5:30	5.50	REE	13	B	P		CHECK CEMENT HARDNESS AT MID-NIGHT. STILL SLIGHTLY GREEN AROUND 16" CONDUCTOR IN CELLAR AND BETWEEN 8-5/8" SURFACE CASING AND CONDUCTOR. WOC.
	5:30 - 6:00	0.50	REE	23		P		SHIFT CHANGE SAFETY MEETING
	6:00 - 12:00	6.00	REE	13	B	P		WAIT ON CEMENT IN CONDUCTOR PIPE AND CELLAR TO CURE. CHECK CEMENT HARDNESS @ 14:00. APPEARS TO BE GOOD.

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Event: RE ENTER	Start date: 1/17/2017		End date: 2/3/2017
Active datum: RKB @5,009.00usft (above Mean Sea Level)		UWI: SE/NW/0/2/N/66/W/15/0/0/6/PM/N/1,980.00/W/0/1,980.00/0/0	

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	12:00 - 14:00	2.00	REE	14	A	P		NUBOP STACK AND TORQUE BOLTS. TEST PIPE RAMS, ANNULAR BAG, FLOAT SUB AND TIW VALVE. ATTEMPT TO TEST BLIND RAMS. FUNCTION BLIND RAMS SEVERAL TIMES BUT COULD NOT GET THEM TO HOLD. FAILED TEST.
	14:00 - 14:30	0.50	REE	06	A	P		MU 7-7/8" TRI-CONE BIT, BIT SUB WITH 4F FLOAT INSTALLED.
	14:30 - 15:00	0.50	REE	23		P		HELD PRE SPUD SAFETY MEETING
	15:00 - 17:00	2.00	REE	14	C	Z		REPAIR / REPLACE BLIND RAM RUBBERS. RETEST BLIND RAMS, HELD GOOD.
	17:00 - 18:00	1.00	REE	02	A	P		PU 4-1/2" DC. MU BHA ON DC. TAG CEMENT AT 18'. BREAK CIRCULATION WITH 1 PUMP. LINE OUT MUD SYSTEM AND SHAKERS. PUMP RATE AT 9.5 BPM.
	18:00 - 18:30	0.50	REE	02	A	P		DRILL OUT CEMENT FROM 18' TO 40'.
	18:30 - 20:00	1.50	REE	06	A	P		PU TIH WITH 6 TOTAL 4-1/2" XH DC'S AND 8 JOINTS 4-1/2" XH HWDP. TAG CEMENT AT 696'.
	20:00 - 21:30	1.50	REE	02	A	P		DRILL CEMENT FROM 696' TO 950'.
	21:30 - 22:45	1.25	REE	02	A	P		ROTATE AND WASH DOWN TO 1,633'. HEAVY MUD AND SHALE IN RETURNS ACROSS BOTH SHAKERS. PUMP RATE AT 9.5 BPM.
	22:45 - 23:15	0.50	REE	05	F	P		CIRCULATE UNTIL SHAKERS CLEAN UP. MUD WEIGHT - 9.3 VISC - 40 OLD MUD IN WELLBORE IS BUILDING WEIGHT AND VISC.
	23:15 - 0:00	0.75	REE	02	A	P		WASH DOWN TO 2,146' AT MID-NIGHT. START ROLL HOLE TO CLEAN UP.
1/21/2017	0:00 - 0:30	0.50	REE	05	F	P		CIRCULATE WELL UNTIL SHAKERS CLEAN. OLD WELLBORE RETURNS ARE CLEANING UP. MUD WIEGHT - 9.5 VISC - 43
	0:30 - 2:30	2.00	REE	02	A	P		WASH DOWN 2,146' TO 2495'.
	2:30 - 3:00	0.50	REE	05	F			CIRCULATE WELL UNTIL SHAKERS CLEAN. MUD WIEGHT - 9.5 PPG VISC - 43 PUMP RATE AT 11 BPM. STAND PIPE PRESSURE - 1550 PSI
	3:00 - 4:00	1.00	REE	02	A	P		ROTATE AND WASH DOWN FROM 2495' TO 2620'. MEDIUM SHALE OVER SHAKERS. VISC - 40 MUD WEIGHT - 9.5 PPG PUMP RATE AT 11 BPM. STAND PIPE PRESSURE - 1550 PSI
	4:00 - 4:40	0.67	REE	05	F	P		ROTATE AND WASH DOWN FROM 2620' TO 2924'. MEDIUM SHALE OVER SHAKERS. VISC - 40 MUD WEIGHT - 9.5 PPG PUMP RATE AT 11 BPM. STAND PIPE PRESSURE - 1550 PSI
	4:40 - 5:00	0.33	REE	05	F	P		CIRCULATE UNTIL SHAKERS CLEAN UP. MEDIUM SHALE BACK.
	5:00 - 5:30	0.50	REE	23		P		SHIFT CHANGE SAFETY MEETING

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	5:30 - 6:00	0.50	REE	05	F	P		ROTATE AND WASH DOWN FROM 2924' TO 3341' MEDIUM SHALE OVER SHAKERS VISC. - 41 MUD WEIGHT 9.6 PPG PUMP RATE AT 10.8 BPM. STAND PIPE PRESSURE - 1484 PSI
	6:00 - 6:30	0.50	REE	05	F	P		CIRCULATE UNTIL SHAKERS CLEAN UP. MEDIUM SHALE BACK.
	6:30 - 9:00	2.50	REE	05	F	P		ROTATE AND WASH DOWN FROM 3341' TO 3698' MEDIUM SHALE OVER SHAKERS VISC. - 43 MUD WEIGHT 9.6 PPG PUMP RATE AT 10.8 BPM STAND PIPE PRESSURE - 1442 PSI
	9:00 - 9:00	0.00	REE	05	F	P		CIRCULATE UNTIL SHAKERS CLEAN UP. 1-1/4" TO 1-1/2" SHALE IN RETURNS
	9:00 - 9:30	0.50	REE	05	F	P		ROTATE AND WASH DOWN FROM 3698' TO HARD TAG @ 3797'. TAG HARD SEVERAL TIMES. TD @ 3797' KB
	9:30 - 12:00	2.50	REE	05	F	P		PUH 5' AND BOTTOMS UP. STARTED GETTING HEAVY MUD, SHALE AND CEMENT IN RETURNS. THIN MUD DOWN W/ 2 SX OF SAPP. CONTINUE TO CIRCULATE BOTTOMS UP TWICE UNTIL SHAKERS ARE RUNNING CLEAN. VISC. - 42 MUD WEIGHT 9.7 PPG PUMP RATE 11 BPM STAND PIPE PRESSURE - 1540 PSI
	12:00 - 17:30	5.50	REE	06	A	P		TOOH AND LD 4" DRILL PIPE AND BHA
	17:30 - 18:00	0.50	REE	23		P		TOUR CHANGE AND SAFETY MEETING.
	18:00 - 21:00	3.00	REE	06	A	P		TIH DP <b>OPEN ENDED TO 3788'</b> .
	21:00 - 21:30	0.50	REE	05	F	P		PUMP 50 BBLS FRESH BIO WATER DOWN DP TO DISPLACE MUD FROM DP.
	21:30 - 0:00	2.50	REE	10	C	P		RU CORE-TECH SLICKLINE & VES GYRO. RIH GYRO TO 3700'. POOH. RDMO SL.
1/22/2017	0:00 - 2:30	2.50	REE	05	F	P		BREAK CIRCULATION WITH RIG PUMP. CIRCULATE 200 BBLS. HOLE CLEANED UP.
	2:30 - 3:50	1.33	REE	17	A	P		<b>MIRU SLB CEMENTERS</b> , HELD PRE JOB SAFETY MEETING. <b>SUSSEX PLUG</b> , PUMP 10 BBLS FRESH WATER AHEAD AND BREAK CIRCULATION. PRESSURE TEST LINES TO 2500 PSI. PUMP 15 BBLS CHEM-WASH. <b>MIX AND PUMP 160 SACKS, 43 BBLS OF SLURRY, CLASS G CEMENT. MIXED AT 15.8 PPG, 1.51 YIELD.</b> MIX WATER 6.350 GAL/SK DISPLACED WITH 22.5 BBLS FRESH WATER. SHUT DOWN. HAD FULL RETURNS THROUGHOUT. RD CEMENTERS.
	3:50 - 4:15	0.42	REE	06	C	P		LD 18 JOINTS DP TO 3000'.
	4:15 - 5:00	0.75	REE	05	F	P		CIRCULATE HOLE CLEAN.
	5:00 - 5:30	0.50	REE	06	C	P		LD 12 JOINTS DP TO 2500'. SWI. WOC.
	5:30 - 6:00	0.50	REE	23		P		SHIFT CHANGE SAFETY MEETING
	6:00 - 8:30	2.50	REE	13	A	P		WAIT ON CEMENT TO CURE FOR 5 HRS

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	8:30 - 10:30	2.00	REE	11	B	P		RU CORETECH SLICKLINE. RIH W/ 1-1/4" X 14' SINKER BAR AND TAG CEMENT @ 3051'. RD SLICKLINE.
	10:30 - 12:30	2.00	REE	06	A	P		LD DP TO 1500'.
	12:30 - 13:30	1.00	REE	17	A	P		MIRU SCHLUMBERGER CEMENTING. HELD PRE JOB SAFETY MEETING. TEST LINES TO 2500#. PUMP 10 BBLS H2O, 15 BBLS CHEM WASH. THEN MIX AND PUMP 369 SX OF CLASS G CEMENT (98.6 BBLS OF SLURRY) @ 15.8 PPG W/ 1.51 YLD. MIX WATER 6.041 GAL/SK. DISPLACE W/ 4 BBLS H2O W/ FULL RETURNS TO THE TANK THROUGHOUT THE JOB. PUH AND LD DRILL PIPE TO 90'. CIRCULATE WELL CLEAN W/ 30 BBLS H2O. LD 2 JTS DRILL PIPE. RDMO SCHLUMBERGER.
	13:30 - 18:30	5.00	REE	13	B	P		WAIT ON CEMENT TO CURE. CLEAN TANKS AND HAUL MUD TO ARF
	18:30 - 19:30	1.00	REE	11	B	P		RU PIONEER WIRELINE. PU SINKER BAR. RIH TAG TOC AT 990'. CASING SHOE IS AT 800'. POOH. RD WL. CALL IN FOR MORE CEMENT.
	19:30 - 0:00	4.50	REE	13	B	P		WAIT ON O-TEX CEMENTERS ARRIVAL TO BE IN THE MORNING AT 06:30. RIG CREW WORK ON CLEANING PITS. WORK ON EQUIPMENT.
1/23/2017	0:00 - 5:30	5.50	REE	13	B	P		CONTINUE TO WAIT ON CEMENTING SERVICES
	5:30 - 6:00	0.50	REE	23		P		HELD SHIFT CHANGE SAFETY MEETING W/ NIGHT AND DAY CREW
	6:00 - 6:30	0.50	REE	13	B	P		CONTINUE TO WAIT ON CEMENTING SERVICES SCHEDULED FOR 6:30 AM
	6:30 - 8:30	2.00	REE	17	A	P		TIH W/ DRILL PIPE AND TAG CEMENT @ 990' W/ 23 JTS. RU O-TEX CEMENTING SERVICES. HELD PRE JOB SAFETY MEETING. TEST LINES TO 2000#. PUMP 5 BBLS H2O, THEN MIX AND PUMP 210 SACKS OF CLASS C CMT @ 14.8 PPG W/ 1.33 YLD (50 BBLS SLURRY). DISPLACE W/ 2.5 BBLS H2O. TOOH AND LD 21 JTS DRILL PIPE. CIRCULATE WELL CLEAN @ 90'. RD CEMENTERS AND CLEAN TANKS W/ HYDROVAC.
	8:30 - 13:00	4.50	REE	13	B	P		WAIT ON CEMENT TO CURE FOR 5 HRS PER O-TEX RECOMMENDATIONS. CONTINUE CLEANING TANKS AND PREP RIG FOR RDMO.
	13:00 - 14:00	1.00	REE	17	A	P		RU PIONEER WIRELINE. RIH W/ JUNK BASKET AND TAG CEMENT INSIDE 8-5/8" SURFACE CSG @ 421'. (SURFACE SHOE @ 800'). RIH AND SET PIONEER 8-5/8" CIBP @ 80'. RDMO WIRELINE.
	14:00 - 15:00	1.00	RDMO	01	E	P		FINISH CLEANING TANKS AND LOCATION. NDBOP STACK. RDMO ENSIGN 122.
2/3/2017	11:00 - 12:00	1.00	ABANDP	53		P		pressure tested CIBP, surface casing to 500 psi
	12:00 - 13:00	1.00	ABANDP	53		P		dug up surface casing
	13:00 - 14:00	1.00	ABANDP	53		P		cut casing 6' below GL, tagged @ 80'
	14:00 - 15:00	1.00	ABANDP	53		P		filled casing stub with 42 bags 5000 psi cement
	15:00 - 16:00	1.00	ABANDP	53	A	P		capped casing with a metal plate containing well info
	16:00 - 17:00	1.00	ABANDP	53		P		backfilled
	15:30 - 15:30	0.00	ABANDP	50		P		RE-ENTRY P&A'd OFFLINE. CODL (SUSX ONLY PERFED. NEVER produced. Gerrity Corp well).