

Well Name: BAT 23CWI-24-07-96

API/UWI 05045223130000		Surface Legal Location S24, T7S, R96W		Lease Speakman A Pad				State/Province Colorado	
Spud Date 2/20/2014 23:00		Rig Release Date 2/28/2014 23:00		KB-Ground Distance (ft) 15.50				KB-Casing Flange Distance (ft)	
Weather		Temperature (°F)		Road Condition GOOD				Hole Condition	
Operations at Report Time LAYDOWN CONDUCTOR				Operations Next Report Period LAYDOWN CONDUCTOR, NIPPLE UP AND TEST BOP, P/U BHA, TRIP IN AND DRLG					
Operations Summary TRIP IN THE HOLE,WASH AND REAM, CIRC AND COND. TRIP OUT, RUN CASING, ATTEMPT TO LAND LANDING JT. WELLHEAD NUT TO BIG, CHANGED OUT NUT ON WELLHEAD, CIRC AND COND. CEMENT, L/D LANDING JOINT AND CONDUCTOR									
Remarks NO INCIDENTS, ACCIDENTS OR SPILLS / CREW MU 6X6 / BOILER HRS 15									
Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem ?	Prob Hrs (hr)	Prob Ref #	Com
06:00	2.00	2.00	08:00	6	TRIPS				TRIP IN THE HOLE F/ 173' T/ 1360'
08:00	1.50	3.50	09:30	3	REAMING				WASH AND REAM F/ 1360' T/ 1750' 6' FILL
09:30	1.50	5.00	11:00	5	COND MUD & CIRC				CIRC AND COND. PUMP 2/ 20 BBL HIGH VIS SWEEPS
11:00	2.00	7.00	13:00	6	TRIPS				TRIP OUT OF HOLE FOR CASING, FILL W/ 2" OVER THE TOP
13:00	1.50	8.50	14:30	20	DIRECTIONAL WORK				PULL ROTATING HEAD RUBBER, LAY DOWN SHOCK SUB, DIRECTIONAL TOOLS, MUD MOTOR, AND BIT
14:30	11.50	20.00	02:00	12	RUN CASING & CEMENT				TAKE OFF STABBING GUIDE, SAVERSUB, SAFETY MEETING W/ CASERS, RIG UP CASING CREW, RUN 9 5/8" J-55 36# 40 JTS CASING, FILL AND WASH CASING @ 130',216',344',472',642', CIRCULATE BOTTOMS UP @ 898'. MAKE UP AND ATTEMPT TO LAND LANDING JOINT, WELLHEAD NUT WAS TOO BIG TO FIT DOWN THE CONDUCTOR, CHANGED OUT LANDING JOINT NUT, WITH PUP AND CASING HANGER, LANDING JOINT, LANDED CASING @ 1730'
02:00	1.00	21.00	03:00	5	COND MUD & CIRC				CIRC AND COND. HELD SAFETY MEETING W/ CEMENTERS
03:00	2.00	23.00	05:00	12	RUN CASING & CEMENT				RU CEMENT PUMP LINES / SHUTDOWN CIRCULATION / FILL CEMENT LINES, PRESSURE TEST LINES 1,600 PSI LOW-3,140 PSI HIGH-PASS / PUMP 20 BBLS FRESH WATER SPACER 4.0 BBL RATE, MIX & PUMP 137.9 BBLS LEAD CMT 367 SKS VARICEM @ 12.8 PPG, YIELD 2.11 - 11.77 GL/SK 8.0 BBL PER/MIN RATE, DROPPED WIPER PLUG, DISPLACED W/130.5 BBLS FRESH WATER AT 10.0 BBL/MIN RATE, 2.0 BBL RATE LAST 10.1 BBLS / FCP 470 PSI, BUMPED PLUG TO 1,140 PSI @ 04:07 HRS, HELD 1,140 PSI FOR 4 MINUTES, 1.0 BBL BLEED BACK, FLOATS HELD/ GOOD RETURNS ENTIRE JOB, 20 BBLS CEMENT TO SURFACE, PJSM, RIG DOWN CMT EQUIPMENT.
05:00	1.00	24.00	06:00	14	NIPPLE UP B.O.P				BACKOUT LANDING JOINT AND LAYDOWN, LAYDOWN CONDUCTOR PIPE

Mud Checks						
Type Gel-Chem	Time 23:00	Depth (ftKB)	Density (lb/gal) 9.70	Vis (s/qt) 39	PV Calc (Pa*s) 10.0	YP Calc (lb/100ft²) 11.000
Gel (10s) (lb/100ft²) 5.000	Gel (10m) (lb/100ft²) 12.000	Gel (30m) (lb/100ft²)	Filtrate (mL/30min) 9.0	Filter Cake (1/32") 1	pH 9.2	Solids (%) 8.5
MBT (lb/bbl) 32.5	Percent Oil (%)	Percent Water (%) 91.5	Chlorides (mg/L) 2,200.000	Calcium (mg/L) 160.000	Potassium (mg/L)	Electric Stab (V)
Drilling Mud Volumes						
Action		To well (bbl)	From well (bbl)	Cum to Well (bbl)	Cum from Well (bbl)	
Drill Strings						
BHA #<stringno>, <des>						
Bit Run	Drill Bit		IADC Bit Dull			TFA (incl Noz) (in²)
Nozzles (1/32")				String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)
Drill String Components						
Item Des		Jts	OD (in)	ID (in)	Len (ft)	Top Thread

AFE Number 13-457	AFE+Supp Amt (Cost) 824,438.00
Daily Field Est Total (Cost) 122,764.22	Cum To Date (Cost) 389,612.47
Daily Mud Field Est (Cost) 1,294.00	Cum Mud Field Est (Cost) 3,672.48
Start Depth (ftKB) 1,750.0	End Depth (ftKB) 1,750.0
Start Depth (TVD) (ftKB)	End Depth (TVD) (ftKB)
Target Formation Corcoran	Target Depth (ftKB) 6,500.0
Personnel Total Hours (hr)	Cum Pers Tot Hr (hr)
Time Log Total Hours (hr) 24.00	Problem Time Hours (hr) 0.00
Percent Problem Time (%) 0.00	Cum Prob Time (%) 0.00
Days LTI (days) 219.00	Days RI (days)

Daily Contacts	
Job Contact	Mobile
HANS WYCHGRAM	303-884-9079
MATT HONEYCUTT	970-812-2198
TARA MALL	970-618-2155
MICHAEL OLSEN	517-525-3481
VANCE JONES	307-251-9793

Personnel Log		
Type	Count	Tot Work Time (hr)

Safety Check Summary		
Type	Last Date	Next Date

Rigs	
Contractor XTREME	Rig Number 15
Rig Supervisor VANCE JONES	Phone Mobile 307-251-9793

Mud Pumps		
# 1 , MUDDER , 1600		
Pump Rating (hp) 1,600.0	Rod Diameter (in) 2 1/2	Stroke (in) 11.00
Liner Size (in) 6	Vol/Stk OR (bbl/stk) 0.093	
P (psi)	Slow Spd	Strokes (sp...) Eff (%)
# 2 , MUDDER , 1600		
Pump Rating (hp) 1,600.0	Rod Diameter (in) 2 1/2	Stroke (in) 11.00
Liner Size (in) 6	Vol/Stk OR (bbl/stk) 0.093	
P (psi)	Slow Spd	Strokes (sp...) Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
AQUABLOC	67.53	4.0
ENGINEER	600.00	1.0
NOV PHPA	70.60	3.0
SODA ASH	13.05	11.0
TAXES	1.00	68.53

Survey Data			
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)

Last 5 Formations		
Formation Name	Prog Top MD (ftKB)	Drill Top MD (ftKB)

Last Casing String		
Casing Description Surface	Run Date 2/23/2014	Set Depth... 1,730.2

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Drilling Parameters							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Int ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (100...	PU Str Wt (1000...	SO Str Wt (1000...	Drilling Torque	Off Bottom Torque
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (...)	T Surf Annulus (...)	Q Liq Return (gp...	Q Gas Return (ft³...
Hydraulic Calculations							
Bit Hydraulic Power (hp)	HP/Area (hp/in²)		Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)		% P @ bit (%)	
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)		Min Casing AV (ft/min)	Min Open Hole AV (ft/min)		ECD End (lb/gal)	
Error							
Kicks							
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Kick Class	
Kill Notes							
Lost Circulation							
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date		
Interval Problems							
Problem Type	Problem Sub Type	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)	
Comment							
Interval Lessons							
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (C...	Est Time Saving (hr)	
Comment							
Safety Incidents							
Time	Category	Type	SubTyp	Cause	Lost time?	Severity	