



# Chevron Bangladesh Drilling Morning Report

Date: 1/28/2014

Well Name: Bibiyana -19

Total Time: 33.17

Rpt No: 35

Slot: 7

Rig: WDI 801

End Date:

Time from Spud: 32.56

Hours: 24.00

SBU Drilling Well Category : Drlg Well Category 1

Days Since Last DAFW / RI Case : 1,176 / 220

Depth End (MD) (mOTH): 3,458		TVD End (mOTH): 3,105.96	
Field Name Bibiyana	Original Spud Date 6/13/2013	Country Bangladesh	Water Depth (m) Original KB to Mud Line (m)
Actual Start Date 7/19/2013 08:30	Actual End Date	Target Depth (MD) (mOTH) 4,410	Target Depth (TVD) (mOTH) 3,866.19
AFE/WBS Number 100794		Total AFE Amount (Cost) 22,183,123	

## Safety/Inspections

Date	Safety Check	Tour	Des
1/28/2014 00:00	Pre-Job Meeting	Night	Welding, cutting, grinding at Workshop(PTW) @BYWP
1/28/2014 00:00	Pre-Tour Safety Meeting	Night	RADAR, Ops, Tnt#08 & GEMS#04 @BYWP
1/28/2014 00:00	Pre-Job Meeting	Night	Gen. Forklift Ops @BYWP
1/28/2014 00:00	Pre-Job Meeting	Night	Gen. Crane Lifting @BYWP
1/28/2014 00:15	Pre-Job Meeting	Night	Service Top Drive (PTW) @BYWP
1/28/2014 06:00	Pre-Job Meeting	Day	Diesel transfer (PTW) @BYWP
1/28/2014 06:00	Pre-Tour Safety Meeting	Day	w/Kamal Ent., RADAR Cards, Tnt#08 @BYWP
1/28/2014 06:00	Pre-Job Meeting	Day	Gen. Crane Lifting @BYWP
1/28/2014 06:00	Pre-Job Meeting	Day	MPI on drill pipe (PTW) @BYWP
1/28/2014 06:00	Pre-Job Meeting	Day	Check & Repair A/C, socket-switch (PTW) @BYWP
1/28/2014 06:30	Pre-Job Meeting	Day	MPI & hotwork at camp (PTW) @BYWP
1/28/2014 06:30	Pre-Job Meeting	Day	Gen. Forklift Ops @BYWP
1/28/2014 06:30	Pre-Job Meeting	Day	Gen. Housekeeping (K/E) @BYWP
1/28/2014 07:00	Pre-Job Meeting	Day	Welding, heating of lift point (PTW) @BYWP
1/28/2014 08:00	Safety Procedures	Day	Lifting & Rigging gear audit @BYWP
1/28/2014 08:30	PTW Audit	Day	Welding, cutting, grinding at Workshop
1/28/2014 08:30	Pre-Job Meeting	Day	Use of camera (PTW) @BYWP
1/28/2014 09:00	Pre-Job Meeting	Day	Service engine #1 @mini camp(PTW) @BYWP
1/28/2014 11:30	Pre-Tour Safety Meeting	Day	RADAR, Ops, Tnt#08 & GEMS#04 @BYWP
1/28/2014 12:15	Pre-Job Meeting	Day	Gen. Crane Lifting @BYWP
1/28/2014 12:15	Pre-Job Meeting	Day	Welding, grinding, heating&MPI@camp(PTW) @BYWP
1/28/2014 12:15	Pre-Job Meeting	Day	Gen. Forklift Ops @BYWP
1/28/2014 12:15	Pre-Job Meeting	Day	Welding, cutting, grinding at workshop(PTW) @BYWP
1/28/2014 13:00	Safety Procedures	Day	T-Card Audit
1/28/2014 13:00	Pre-Job Meeting	Day	Service engine #3@base camp(PTW) @BYWP
1/28/2014 14:00	PTW Audit	Day	Service engine #3@base camp
1/28/2014 15:00	Hazard Hunt	Day	Camp and Hygiene Inspection @BYWP
1/28/2014 16:00	PTW Audit	Day	Check & Repair A/C, socket-switch
1/28/2014 17:00	Safety Meeting	Day	Ops. Review, Tnt#08 @BYWP
1/28/2014 18:30	Pre-Job Meeting	Night	Gen. Housekeeping (K/E)
1/28/2014 18:30	Pre-Job Meeting	Night	Gen. Crane Lifting @BYWP
1/28/2014 18:30	Pre-Job Meeting	Night	Gen. Forklift Ops @BYWP
1/28/2014 18:30	Pre-Tour Safety Meeting	Night	w/Kamal Ent., RADAR Cards, Tnt#08 @BYWP
1/28/2014 19:30	Safety Procedures	Night	T-Card Audit
1/28/2014 20:00	PTW Audit	Night	Welding, cutting, grinding at workshop

## Safety / Environmental Incidents

Incident Cat.	Incident Desc
	No safety or environmental incident.



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## Daily Operations

Report Start Date 1/28/2014 00:00			Report End Date 1/29/2014 00:00		
Daily Field Est Total (Cost) 523,741	Cum Field Est To Date (Cost) 10,190,606	Daily Mud Field Est (Cost) 9,836	Cum Mud Cost to Date (Cost) 625,994	Drilling Hours (hr) 15.25	Cum Rotating Hrs on Casing 4.4

### Operations Summary

Rebuild and install of IBOP. Continue directional drilling 8-1/2" hole section from 3076 m. MD to 3458 m. MD

### Comments

00:00 - 05:00 Ops:

Continue directional drilling for 8-1/2" hole section from 3458 m. MD to 3545 m. MD

### SC and Waste Mng summary:

TDU:  
 Max cap = 2620 bbls (NOV 1200 bbls / CVX 1420 bbls)  
 Occupied cap = 1595 bbls (60%)  
 Daily received volume = 240 bbls (10 bbls HC contaminated fluid, 210 bbls cutting, 20 bbls other)  
 Available cap = 1025 bbls  
 Volume TDU process = 130 bbls

### Dewatering:

Daily volume process to unit = 480 bbls  
 Dilute water = 1120 bbls  
 Total daily discharge volume = 1600 bbls

Max Drill Gas	Avg Background Gas 0.23	Head Count 136.0
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### Required Mats next day

Water well no#1 : Out of service: sand fill ontop of the pump - unable recovered the pump.

Resistor bank's cooler fan.

CCTV: driller has camera for derrick,stabbing board, mud pump. STP recorder operational for drillers cabin only.

Forklift# 966 is down from 6th Dec,2013.

SLS air conditioner not functioning properly. Awaiting repair.

## Safety Observation Cards

Observation Typ	# Rpts	Com
	56	While transporting barite to the mixing hopper by small forklift observed the operator was going to lift 3 bags at a time but it was beyond the capacity of forklift. Stopped the operator & told him to lift 2 bags instead of 3. Discussed the safe procedure and he followed the instruction as well.Tenet#2,MOZNU MOLLAH-WDI-Derrickman  CVX-2, WDI-11, Others-43

## Daily Contacts

Contact
Passagon Heamtanon
Stephen Joubert
Mahbubur Rahman
Jay Darder
Peter Jennings
Miah Mohammed Fahad

## Time Log

Start Time	End Time	Phase	Activity	Dur (hr)	Unsched Event?	UE Time (hr)	UE Ref No.	Com
00:00	05:30	PRODLNR1, DRILL	UNITRPR	5.50		5.50	29	HPJSM and start rig repairing IBOP. Removed current IBOP unit and changed out with the rebuilt spare IBOP unit. Made up the spare IBOP to TDS pipe handler system, found the wrench crank on the side of the spare unit was not compatible fit to the TDS crank arm* Removed the IBOP and changed out the wrench crank on IBOP with a new spare kit. Made up the IBOP to TDS pipe handler and function test. Note: Investigated the incompatible wrench crank on the IBOP spare unit - found the wrench crank was not correctly supplied from the OEM vender.
05:30	06:00	PRODLNR1, DRILL	UNITMAIN	0.50				Rig Service



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Start Time	End Time	Phase	Activity	Dur (hr)	Unsched Event?	UE Time (hr)	UE Ref No.	Com
06:00	00:00	PRODLNR1, DRILL	DRLDD	18.00				<p>Directional drilled 8-1/2" hole section from 3076 m. MD to 3458 m. MD,</p> <p>Rotation: 97.38% Sliding: 2.62%.</p> <p>RPM 60 Pick Up wt 275K Slack Off wt 195K Rotating wt 205K Torque 12-18K WOB 16-18 Mud Weight has increased to 12.8</p> <p>Today drilled 382 m in 18 hrs. Average ROP 21.22 m/hr (Total drilled 417 m. in 22 hrs. Average ROP 18.95 m/hr)</p> <p>Lithology: Depth Interval ( 3066-3450m): Sand/Sandstone (Tr-90%) Claystone (10-100%) Siltstone (Tr-50%)</p> <p>Magnet sample; 50 grams. Total: 110 grams</p>

## Personnel

Company	Total Headcount	SSE
Chevron	14	
Weatherford	12	Rig Expat
Weatherford	43	Rig National
Weatherford	22	Shamolima Catering
Aker-Kvaerner	1	Wellhead Eng
Weatherford	3	LWD/MWD
Halliburton	4	Cementing
Weatherford	2	DD
MI Swaco	2	Mud Engineers
Gyrodatta Inc	0	Gyrodatta
Weatherford	4	TRS
NOV - Fluids Services	11	Solids Control
HAL - Wireline	5	Wireline
Weatherford	5	SLS
Weatherford	0	Ayun ent
Chevron	1	PetroBangla
Smith International	4	Inspection
Weatherford	0	Completion/Liner hands
Chevron	1	WWT
Weatherford	0	BanglaCat
Weatherford	0	Bangla Industrial
Chevron	0	Hunting Casing
Weatherford	2	WWS
Chevron	0	HES
Weatherford	0	SPM
Weatherford	0	MD Totco Tech
Halliburton	0	Coil Tubing



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## Mud Checks

Date 1/28/2014 23:55	Depth (MD) (mOTH) 3,440.0	Depth (TVD) (mOTH) 3,090.86	Mud/Brine Type NAF	Sample Source Active Pit	Checked By
Flow Line Temperature (°C) 54.0	Fluid Density (lb/gal) 12.80	Gel 10 sec (lb/100ft²) 12.0	Gel 10 min (lb/100ft²) 20.0	Gel 30 min (lb/100ft²) 24.0	YP Calc (lb/100ft²) 14
Vis 3rpm 7	Vis 6rpm 8	Vis 300rpm 52	Vis 600rpm 90	Funnel Viscosity (s/qt) 70	PV Calc (Pa*s) 0
pH	Chlorides (mg/L) 50,000	CaCl2 (mg/L) 291,758.00	Electric Stability (V) 670.0	Water Phase Salinity (mg/L) 342,800	ROC (Wet) (% by wt) (lb/lb)
Filtration Sz (µm)	High Gravity Solids (lb/bbl) 266.40	Corrected Solids (%) 22.35	Retort Solids (% by Volume) (%) 24.50	Retort Water by Volume (%) 15.00	Retort NAF by Volume (%) 60.50
NAF/Water Ratio 80.1/19.9	NaCl (mg/L)	API Filtrate (cc/30min)	API Filter Cake (1/32")	HTHP Filtrate (cc/30min) 3.2	HTHP Filter Cake (1/32") 1

## Weather Conditions

Wave Ht (m)	Swell Ht (m)	Wave Dir (°)	Wind Spd (knots)	Wind Dir	P Bar (mmHg)	T High (°C)	T Low (°C)	Visibility (km)

## Support Vessels

Vessel Name	Vessel Type	Arrival Date	Depart Date	Note

## Unscheduled Events

Reference No.	Start Date	End Date	Event Type	Unsch Maj Cat	Unsch Detail	Description	Accountable Party	Contractor
29	1/27/2014	1/28/2014	NPT	RRBOP	SURF	IBOP is not working properly. Troubleshoot IBOP open/close valve.	Rig Contractor	Weatherford - Accessories, Drilling

## Mud Additive Amounts

Des	Date	Rec	Consumed	On Loc
Barite	1/28/2014		14.0	137.0
Base Oil Df1	1/28/2014	25.0		175.0
Novatec F	1/28/2014		1.0	10.0
Optiplus	1/28/2014		2.0	23.0

## Job Supply Amounts

Supply Item Des	Date	Received	Consumed	Cum On Loc
Diesel	1/28/2014	22,500.0	15,963.0	187,853.0

## Drill String/BHA

### BHA #12, Motor Build

Bit Run 12	Drill Bit 8 1/2in, MDSZI516, JH4001	Length (m) 0.24	IADC Bit Dull -----	Bit Total Fluid Area (nozzles) (in²) 0.98	BHA ROP (m/hr) 23.2
Nozzles (1/32") 16/16/16/16/16	String Length (m) 236.15	Max Nominal OD (in) 7.000			

### String Components

MDSZI516, 7" Frontline Motor, 7-3/4" Stg Stab, 6-3/4" Float Sub, 6-3/4"LWD - MFR, 6-3/4" IDS, 6-3/4" NDT, 6-3/4" HEL, HWDP, Drilling Jars - Hydraulic, HWDP

### Comment

BHA to drill 8-1/2" hole section

## String/BHA Components

Item Des	Len (m)	Mass/Len (lb/ft)
HWDP	158.91	49.30
Drilling Jars - Hydraulic	9.93	
HWDP	27.98	49.30
6-3/4" HEL	5.43	
6-3/4" NDT	8.53	
6-3/4" IDS	3.76	
6-3/4"LWD - MFR	8.98	
6-3/4" Float Sub	0.80	
7-3/4" Stg Stab	1.83	
7" Frontline Motor	9.76	



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## Drilling Parameters

Wellbore Original Hole	Depth Start (MD) (mOTH) 3,076	TVD Start (mOTH) 2,792.97	Depth End (MD) (mOTH) 3,458	TVD End (mOTH) 3,105.96	Drill Time (hr) 15.25	On Bottom Drill Time (hr) 14.10	Interval ROP (m/hr) 25.0
Cum Depth Drilled (mOTH) 417	Cum Drilling Time (hr) 17.97	Flow Rate (gpm) 500	Weight on Bit (1000lbf) 20	RPM (rpm) 60	Stand Pipe Pressure (psi) 4,575.0	Drill Str Wt (1000lbf) 275	
Pick-Up String Weight (1000lbf) 275	Drilling Torque	Weight of String in Air (1000lbf) 30	Slack-Off String Weight (1000lbf) 195				

## Casing Strings

Casing Description	Set Depth (MD) (mOTH)	Set Depth (TVD) (mOTH)	Run Date
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Comment

## Casing Components

Top Depth (MD) (mOTH)	Btm Depth (MD) (mOTH)	Len (m)	Jts	Item Des	OD (in)	ID (in)
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## Tubing Strings

Tubing Description	Set Depth (MD) (mOTH)	Run Date
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Comment

## Tubing Components

Top Depth (mOTH)	Bottom Depth (mOTH)	Length (m)	Joints	Item Description	OD Nominal (in)	ID (in)
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## BOP Test

Date	Com
11/11/2013	Full test BOPs and related equipment to 250 / 5000 psi, ok, Annular 250 /3500psi. Full BOP test was done on 11 November'13.

## Wellbores

Wellbore Name Original Hole	Parent Wellbore Original Hole
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## Directional Surveys

Description Planned survey	Date 5/27/2013
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## Survey Data

Date	MD (mOTH)	Incl (°)	Azm (°)	TVD (mOTH)	VS (m)	NS (m)	EW (m)	DLS (°/30m)
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Description Actual Surveys	Date 7/22/2013
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## Survey Data

Date	MD (mOTH)	Incl (°)	Azm (°)	TVD (mOTH)	VS (m)	NS (m)	EW (m)	DLS (°/30m)
1/28/2014	3,081.37	35.05	139.60	2,797.26	723.77	-843.76	120.43	1.36
1/28/2014	3,110.41	35.73	140.19	2,820.93	740.59	-856.62	131.26	0.79
1/28/2014	3,139.37	35.91	140.30	2,844.41	757.53	-869.65	142.10	0.20
1/28/2014	3,168.34	36.13	140.76	2,867.85	774.57	-882.81	152.93	0.36
1/28/2014	3,197.29	36.02	140.65	2,891.24	791.62	-896.00	163.73	0.13
1/28/2014	3,226.22	36.14	140.81	2,914.63	808.65	-909.19	174.51	0.16
1/28/2014	3,255.17	35.98	140.57	2,938.03	825.69	-922.37	185.31	0.22
1/28/2014	3,284.19	35.42	139.88	2,961.60	842.63	-935.39	196.14	0.71
1/28/2014	3,313.09	34.65	139.00	2,985.26	859.21	-947.99	206.93	0.96
1/28/2014	3,342.07	34.08	137.95	3,009.18	875.57	-960.24	217.77	0.85
1/28/2014	3,371.02	33.61	136.83	3,033.23	891.67	-972.11	228.68	0.81
1/28/2014	3,399.94	33.54	136.48	3,057.32	907.64	-983.74	239.66	0.21
1/28/2014	3,428.93	32.95	135.54	3,081.57	923.49	-995.17	250.70	0.81
1/28/2014	3,458.00	32.95	135.54	3,105.96	939.26	-1,006.46	261.77	0.00