

# Daily Operations Report - Partners (Drilling)

Operator: BP	Event Type: DRL - OFFSHORE	Report: 22
Well/Wellbore No.: OCS-G32306 MC252 #1/OH	Event Objective: NEW DRILL	Date: 10/27/2009
Site: MC252	Well Type: EXPLORATION	
Contractor: TRANSOCEAN OFFSHORE	Job Number:	Acct Proj No: X2-000X8
	Rig: MARIANAS	

## Current Well Status

Depth MD: 9,071.00 (ft)	Casing Size: 22.000 (in)	Rig Accept: 5:00:00PM 9/30/2009
Est TVD: 9,070.76 (ft)	Casing(MD): 7,952.00 (ft)	Rig Release:
Progress: 101.00 (ft)	Next Casing Size: 18.000 (in)	Spud Date: 10/6/2009
Auth Depth: 19,850.00 (ft)	Next Casing(MD): 9,900.00 (ft)	WX Date: 10/6/2009
Hole Size: 22.000 (in)	Next Casing(TVD): 9,900.00 (ft)	Water Depth: 4,992.00 (ft)
Elev Ref: RKB @89.00ft (above Mean Sea Level)	Daily Mud: 119,124	KB Elev: 89.00(ft)
DOL/DFS/Target: 21.31/21.08/61.40	Cum. Mud: 750,125	Total Personnel: 128
Geologist: BODEK	Daily Well: 840,797	Wellbore Max Angle: 1.96
Engineer: FLEECE/MOREL	Cum. Well: 19,413,213	
Day WSL: PARKER	Est Days: 61.40 days	
Night WSL: VIDRINE	Rig. Days: 21.31	
Weather: Wind WSW 8-10 kts, Seas 2-4'		

Current Status: FLOW CHECKING WELL.

24 Hr Summary: CONTINUE WELL CONTROL OPERATION. DISPLACED CHOKE LINE WITH 10.2 PPG SBM. OPEN WELL TO CHOKE. O PRESSURE. OPEN TO STRIPPING TANK, WELL STATIC. DISPLACED RISER TO 10.1 PPG SBM. OPEN WELL. DISPLACE WELL TO 10.0+ SBM. DRILL AHEAD TO 9073'. FLOW CHECK.

24 Hr Forecast: DRILL AHEAD TO SECTION TD AT 9080'. CBU, RAISE MW TO 10.1+. POOH TO 18" RUN CASING.

Update at 06:00: DRILLED TO 9080'. CBU, RAISING MW TO 10.1+.

Comments: NO ACCIDENTS, NO ENVIRONMENTAL INCIDENTS, NO POLLUTION.

## HSE and Well Control

Days Since Last DAFWC: 647 All Free Days.

Incident Details:

Last Csg Test Press: 3,400.00 (psi)	Number of Dropped Objects:	Last H2S Drill:
Last BOP Pressure Test: 10/20/2009	Last Abandonment Drill: 10/25/2009	Last Trip Drill (D1):
Next BOP Press Test: 11/3/2009	Last Accum Drill (D4):	Last Safety Meeting: 10/27/2009
Last Divertor Drill (D3):	Last Spill Drill: 7/22/2009	Last Environmental Incident: 10/25/2009
Safety Observation Cards 82	Regulatory Agency Insp: No	Non-compliance Issued: No

Kick Tolerance: Kick Volume:

LOT TVD: 7,952.00 (ft) BHP: 4,230.9 (psi) @7,952.00 (ft) MAASSP: 34.4 (psi)

LOT EMW: 10.24 (ppg) Test Pressure: 100.0 (psi)

No.	Slow Pump Rates (Circ)		Slow Pump Rates (Choke)		Slow Pump Rates (Kill)	
	Stroke Rate	Pressure (psi)	Stroke Rate	Pressure (psi)	Stroke Rate	Pressure (psi)
No Pump Operations with Slow Pump Rates						

## Performance Measures

	Safety Observation Cards	SOC	JSEA/TOFS	First Aid	Near Miss
Today	82				
Total	1,884	19			

## Operational Parameters

ROP Daily: 4.21 (ft/hr)	Rotating Weight: 470 (lbf)	Daily BH Hrs: 24.00 (hr)	Pump Status - Drilling and Riser		
ROP Cum: 18.51 (ft/hr)	Pick Up Wt: 465 (lbf)	Daily Sliding Hrs: 0.00 (hr)			
WOB (min): 2 (lbf)	Slack Off Wt: 470 (lbf)	Cum Bit Hrs: 56.50 (hr)	No.	Operat ion	Efficiency (%)
WOB (max): 10 (lbf)	Circ Rate Riser: 470.93 (gpm)			Type	SPM (spm)
Min RPM: 100 (rpm)	Circ Rate Hole: 900.01 (gpm)	Ann. Vol. Risor: Ann. Vol. DC:	2	D	95.00
RPM DH: 120 (rpm)	Circ Off Bottom:	Ann. Vol. DP:	3	D	95.00
Torque on Bottom: 8 (ft-lbf)	Circ On Bottom: 2,440 (psi)				86.00
Torque off Bottom: 2 (ft-lbf)	Jar Hrs since Inspect: 23.50(hr)				86.00
					6,000
					450

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Exhibit No. \_\_\_\_\_

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BP-HZN-MBI00192241

## Daily Operations Report - Partners (Drilling)

Operator: BP Event Type: DRL-OFFSHORE Report: 22  
 Well/Wellbore No.: OCS-G32306 MC252 #1/OH Event Objective: NEW DRILL Date: 10/27/2009  
 Well Type: EXPLORATION  
 Site: MC252 Job Number: Acct Proj No: X2-000X8  
 Contractor: TRANSOCEAN OFFSHORE Rig: MARIANAS

## BIC Details

Bit Run	Re-Run	Size	Manuf.	Model	Type	Serial #	Nozzles(32nd")	TFA	Depth In(ft)	Depth Out(ft)
2	Y	18.025	HUGHES CHRISTENSEN	7017944	Polycrystalline Diamond Bit	7017944	2X16, 5X15	1.280	8,050.00	
Cum Prog (ft)		RPM Min/Max	WOB Min/Max	Daily Hrs.	Hours Cum	ROP Cum	Condition			
1,046.00		100/120	2/10	24.00	56.50	18.51				

## BHA

BHA No.: BHA 4 TMD In: 8,050.00 (ft) BHA Weight: 750,000lbf / 550,000lbf  
 Working Purpose: DRILL/DRESS CEMENT TMD Out: Wt. Below Jars: 750,000lbf

Component	Component Type	Component Detail	Jts	Length (ft)	Cum Length (ft)	OD (in)	ID (in)	Blade OD (in)	Bend Angle (°)	Connection Size (in)	Type	P/B
Bit	Polycrystalline Diamond Bit	16 1/8" PDC BIT	1	1.83	1.83	19.025				7.625	REG	P
MWD	Steering Tool	POWER DRIVE 1100	1	13.89	15.72	9.375	3.025			7.625	REG	B
Stabilizer	Steerable Stabilizer	ROTARY STEERABLE STABILIZER	1	5.94	21.66	10.937	3.000	18.000		7.625	H90	B
MWD	Logging While Drilling	ARC VISION	1	19.47	41.13	9.125	4.025			7.625	H90	B
MWD	MWD Tool	TELESCOPE W/ 18" STABILIZER	1	31.99	73.12	9.000	4.025			7.625	H90	B
Sub	Filter Sub	DOWNHOLE FILTER SUB	1	7.70	80.82	9.500	4.000			7.625	REG	B
Underreamer	Underreamer	18 1/8" X 22" REAMER W/ STABILIZER PORTED FLOAT	1	16.39	97.21	9.500	3.500			7.625	REG	B
Drill Collar	Drill Collar	Drill Collar, Drill Collar, 9 1/2", 224.49 ppt, 4145H MOD (2), 7 5/8 H-90		31.03	128.24	9.562	3.125			7.625	REG	B
Underreamer	Underreamer	18 1/2" X 19 1/2" REAMER		13.89	142.13	9.500	3.500			7.625	REG	B
Drill Collar	Drill Collar	9 1/2" DRILL COLLAR	2	82.35	204.48	9.437	3.125			7.625	REG	B
Drill Collar	Drill Collar	9 1/2" DRILL COLLAR	1	30.65	235.13	9.562	3.125			7.625	REG	B
Sub		WEAR SLEEVE		11.62	246.75	9.500	3.000			7.625	REG	B
Drill Collar	Drill Collar	RUNNING TOOL										
Drill Collar	Drill Collar	9 1/2" DRILL COLLAR	2	59.45	306.20	9.562	3.125			7.625	REG	B
Sub	Cross Over	CROSS OVER SUB	1	3.82	310.02	8.187	2.812			6.625	REG	B
Heavy Weight	Heavy Weight Drill Pipe	HEAVY WEIGHT DRILL PIPE	3	91.47	401.49	6.625	4.625			6.625	FH	B
Jar	Drilling Jar	DRILLING JAR	1	33.06	434.55	8.000	3.000			6.625	FH	B
Heavy Weight	Heavy Weight Drill Pipe	HEAVY WEIGHT DRILL PIPE	23	708.79	1,143.34	6.625	4.625			6.625	FH	B
Sub	Cross Over	CROSS OVER SUB	1	3.77	1,147.11	8.500	4.000			5.500	FH	B
Drill Pipe	Drill Pipe	5 1/2" DRILL PIPE	146	4,765.06	5,912.17	5.500	4.625			5.500	HT-55	B
Sub	Cross Over	5 1/2" HT 55 X 6 5/8" FH	1	4.46	5,916.63	7.025	3.375			6.625	FH	B
Drill Pipe	Drill Pipe	6 5/8" FH DRILL PIPE	124	3,053.37	8,970.00	6.625	5.375			6.625	FH	B

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BP-HZN-MB100192242

## Daily Operations Report - Partners (Drilling)

Operator:	BP	Event Type:	DRL- OFFSHORE	Report:	22
Well/Wellbore No.:	OCS-G32308 MC252 #1/OH	Event Objective:	NEW DRILL	Date:	10/27/2009
Site:	MC252	Well Type:	EXPLORATION		
Contractor:	TRANSOCEAN OFFSHORE	Job Number:		Acct Proj No:	X2-000X8
		Rig:	MARIANAS		

## Drilling Fluid

Type:	SYNTHETIC OBM	10 sec gels:	8.000 (lb/100ft <sup>3</sup> )	Ca:		ES:	258.0 (Volts)
Time:	23:59 /PIT	10 min gels:	11.000 (lb/100ft <sup>3</sup> )	K+:		Solids:	
Depth:	9,090.00 (ft)	Fluid Loss:	0.0 (cc/30min)	CaCl <sub>2</sub> :		Oil:	61.00 (%)
FL Temp.:	82 (°F)	HTHP Temp:	200.0 (°F)	NaCl:		Water:	28.00 (%)
Density:	10.05 (ppg)	HTHP WL:	4.2 (cc/30min)	Cl-:		Oil/Water:	71.00/29.00
Funnel Visc:	82.00 (s/qt)	Cake:		Sand:	0.05 (%)	Daily Cuttings:	
ECD:	10.10 (ppg)	MBT:		HGS:	52.27 (lbm/bbl)	Cum Cuttings:	0.0 (bbl)
PV:	20.00 (cp)	Lime:		LGS:	53.57 (lbm/bbl)	Lost Downhole:	
YP:	19,000 (lb/100ft <sup>3</sup> )	PM:		P/Mt:		Lost Surface:	

## Operations Summary

From - To Op. Depth (ft)	Hrs (hr)	Phase	Task	Activity	Code	NPT	Operation
00:00 - 10:30 8,970.0	10.50	LNR1	DRILL	WELKIL	N	OPRB	CONTINUE MONITORING WELL CONTROL RECORDING PRESSURES. WORKING PIPE EVERY HOUR TO VERIFY FREE MOVEMENT. AT 02:00 HRS, BLEED BACK 1/2 BBL FROM ANNULUS. ISIP DP 100 PSI, CSG-30 PSI. MONITORED FOR 30 MINUTES. FSIF DP 100 PSI, CSG-30 PSI. AT 02:15 HRS, LINED UP TO PUMP DOWN CHOKE LINE TAKING RETURNS THRU UPPER BLEED ON KILL LINE TO SWEEP STACK. CLOSED LOWER PIPE RAMS. AT 02:30 HRS, PUMPING AT 3 BPM, INCREASED TO 10 BPM, 880 PSI, 190 PSI ON KILL LINE, 130 PSI ON DP. WHILE SWEEPING STACK, PUMPED 342 BBLs, 2785 STKS, MAX GAS 182 UNITS. AT 03:05, DISPLACED CHOKE LINE WITH 10.2 PPG SBM. ISIP CHOKE LINE 0 PSI, MONITORED FOR 30 MINUTES. FSIF CHOKE LINE 0 PSI. OPEN CHOKE LINE TO STRIP TANK. WELL STATIC. WT UP ACT SYSTEM TO 10.1 PPG. AT 05:15 HRS, DISPLACING RISER FROM A 9.9 PPG TO 10.1 PPG MUD WT AT 10 BPM, 375 PSI. AT 05:30 HRS, WORKING PIPE. P/U 490K, S/O 400K. AT 05:45 HRS WORKED PIPE. S/O 400K, P/U 490K, JARS WENT OFF. DECISION WAS MADE TO WORK PIPE EVERY 15 MINS. AT 06:38 HRS, LINED UP TO PUMP DOWN CHOKE AND UP KILL SIDE, CLOSED LOWER PIPE RAMS WITH 10.1 PPG. AT 06:45 HRS, DISPLACING CHOKE AT 10 BPM, 900 PSI. AT 07:16 HRS, SHUT DOWN PUMPING, LINED UP TO MONITOR PRESSURE ON KILL SIDE, OPENED LOWER PIPE RAMS, DP 80 PSI, CSG 50 PSI. AT 08:15 HRS, CLOSED LOWER PIPE RAMS AND LINED UP TO TAKE RETURNS DOWN KILL UP THE CHOKE. AT 08:50 HRS, PUMPING BASE OIL AT 7 BPM, 778 PSI, PUMPED TOTAL OF 100 BBLs. CLOSED CHOKE SIDE AND LINED UP ON KILL SIDE TO PO BOY DEGASSER. OPENED SUPER CHOKE AND UPPER ANNULAR, (1) BBL FLOW BACK. CLOSED UPPER ANNULAR, VERIFIED LINE UP, LINE UP WAS CORRECT, OPENED UPPER ANNULAR AND HAD (1) BBL FLOW BACK. LINED UP PUMP, BEGAN PUMPING DOWN CHOKE WITH 10.1 PPG MUD AT 7-1/2 BPM, 330 PSI. 650 PSI. SHUT DOWN PUMPS, OPENED UPPER ANNULAR AND LINED UP IN DRILL MODE.
10:30 - 12:00 8,970.0	1.50	LNR1	DRILL	CIR	N	DPRB	CIRC DOWN HOLE AT 400 GPM, INCREASING TO 1000 GPM, 2780 PSI, P/U 490K, S/O 465K, ROT 470K, 10.0+ PPG SBM. BEGAN BOOSTING AT 10 BPM, 404 PSI. MAX ALLOWABLE ECD'S 10.29. WORKING PIPE, NO DRAG, NO OVERPULL. WASHED DOWN TO 8965', NO FILL.
12:00 - 13:30 8,970.0	1.50	LNR1	DRILL	CIR	N	DPRB	HELD PRE JOB SAFETY MEETING WITH CREW ON CIRCULATING, CONTINUE CIRCULATING 10.1 PPG SBM AT 1000 GPM'S, 2950 PSI, RECIPROCATING AND ROTATING AT 40 RPM'S. LARGE INCREASE IN CUTTINGS AT BOTTOMS UP. TAGGED BOTTOM AT 8970', NO FILL. PUMP #2 AND 3 98 GPM. BOOSTING RISER AT 375 GPM'S

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North America North America Exploration - BP  
**Daily Operations Report - Partners (Drilling)**

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Operator: BP Event Type: DRL - OFFSHORE Report: 22  
 Well/Wellbore No.: OCS-G32306 MC252 #1/OH Event Objective: NEW DRILL Date: 10/27/2009  
 Site: MC252 Well Type: EXPLORATION  
 Contractor: TRANSOCEAN OFFSHORE Job Number: Acol Proj No: X2-000X8  
 Rig: MARIANAS

**Operations Summary**

From - To Op. Depth (ft)	Hrs (hr)	Phase	Task	Activity	Code	NPT	Operation
13:30 - 18:00 8,970.0	4.50	LNR1	DRILL	CIR	N	DPRB	350 PSI, 80 SPM. CIRCULATING 10.0 + PPG SBM AT 1000 GPM'S, 2820 PSI, WHILE MIXING LCM AT 2 PPG/BBL, RECIPROCATING AND ROTATING AT 40 RPM'S, ADDING BASE OIL AT 12-14 BBL'S/HR. BOOSTING RISER AT 375 GPM'S, 350 PSI, 90 SPM. STARTED WEIGHING UP TO 10.1 PPG AT 16:30.
18:00 - 22:30 9,064.0	4.50	LNR1	DRILL	DRL	P		DRILL AHEAD FROM 8970' TO 9065' WITH 10.1 PPG SBM. DRILLING PARAMETERS: 800 GPM'S, 2590 PSI, 80 RPM'S, 4 - 8K TORQUE, 5 - 8K WOB. 470 SLACK OFF AND 465 PICK UP, 25 - 28 ROP, 87 SPM ON #2 AND 3 MUD PUMPS. FLOW CHECKED WELL AT 9064' ESD 10.26 PPG. WELL STATIC. AT 19:53 ECD CLIMBED TO 10:34 PPG. STARTED CUTTING MUD WEIGHT TO 10.0 + PPG.
22:30 - 23:00 9,065.0	0.50	LNR1	DRILL	MONW	P		CLOSED UPPER ANNULAR AND LOCATED TOOL JOINT. OPENED UPPER ANNULAR AND FUNCTION TESTED BOP'S FROM DRILLERS PANEL ON YELLOW POD, WHILE MONITORING WELL ON TRIP TANK.
23:00 - 23:30 9,071.0	0.50	LNR1	DRILL	DRL	P		DRILLING AHEAD FROM 9064' TO 9073' WITH 10.0 + PPG SBM AT 800 GPM'S, 2520 PSI, 80 RPM'S, 3K TORQUE, 5K WOB, 28 ROP, 10.30 ECD, 86 SPM ON MUD PUMP #2 AND 3, ADDING BASE OIL AT 14 BBL'S/MIN.
23:30 - 00:00 9,071.0	0.50	LNR1	DRILL	FLWCHK	P		WHILE DRILLING GAINED 4 BBL'S IN PITS. PICKED UP OFF BOTTOM AND FLOW CHECKED WELL FROM 23:30 TO 00:00, 4 BBL GAIN. WELL NOT STATIC. ORIGINAL PIT GAIN WAS FROM BASE OIL ADDITIONS. PIT ROOM HAD NOT NOTIFIED DRILLER.

**Mud Log Information**

Formation: Formation top @: 8,870.00 (ft) Max Background Gas: 231.00 (%) Max Trip Gas:  
 Lithology: 50 SH, 30 SL, ST, 15 LT & 5 S-ST Max Connection Gas: 0.00 (%) Pore Press:

**Materials Consumption**

Item	Unit	Usage	Item	Unit	Usage	Item	Unit	Usage
DIESEL	GAL	3,394	DRILL WATER	BBL'S	189	PORTABLE WATER	BBL'S	207
CEMENT	SACKS	5,303	CEMENT	SACKS	0	CEMENT	SACKS	1,404
CEMENT	SACKS	5,303	CEMENT	SACKS	0	CEMENT	SACKS	1,404

**Personnel**

Company	No. People	Hours	Company	No. People	Hours
BP	128	1,536.00			

**Weather**

Temperature H/L: 81.0(°F) / 72.0(°F) Wind Speed: 8.0(knots) Visibility: 10.00(mi) Prec Type:  
 Bar Press: 29.94(in-Hg) Wind Direction: 250.00(°) Ceiling:  
 Wind Chill: Gust Speed: 10.0(knots) Prec Amt:

**Anchoring/Mooring**

01		02		03		04		05		06		07		08		09		10		11		12			
Tension (lbf)		416		378		268		578		540		305		301		263		200		185		200		200	
Direction (°)																									
Rig Heading: 210.00 (°)				Sea Height: 2.00 (ft)				Rig Heave: 0.25 (ft)				Current Speed: 0.1 (knots)													
VDL: 3619 (lbf)				Sea Dir: 250.00 (°)				Rig Roll: 0.20 (°)				Current Direction: 253.00 (°)													
Swell Height: 4.00 (ft)				Sea Period: 6 (sec)				Rig Pitch: 0.13(°)																	
Comments:																									

Comments:

**Cumulative Phase Breakdown**

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Daily Operations Report - Partners (Drilling)													
Operator:		BP		Event Type:		DRL- OFFSHORE		Report:		22			
Well/Wellbore No.:		OC6-G32306 MC252 #1/OH		Event Objective:		NEW DRILL		Date:		10/27/2009			
Site:		MC252		Well Type:		EXPLORATION		Acct Proj No:		X2-000X8			
Contractor:		TRANSOCEAN OFFSHORE		Job Number:		MARIANAS							
Cumulative Phase Breakdown													
Phase	Planned						Change of Scope						Total Hours
	Prod	% Total	NPT	% Total	WOW	% Total	Prod	% Total	NPT	% Total	WOW	% Total	
COND1	8.50	100.00		0.00		0.00		0.00		0.00		0.00	8.50
COND2	64.00	95.52	3.00	4.48		0.00		0.00		0.00		0.00	67.00
SURF	185.50	49.87	186.50	50.13		0.00		0.00		0.00		0.00	372.00
LNR1	27.00	41.54	36.00	58.46		0.00		0.00		0.00		0.00	65.00
<b>Total</b>	<b>285.00</b>	<b>65.61</b>	<b>227.50</b>	<b>44.39</b>		<b>0.00</b>		<b>0.00</b>		<b>0.00</b>		<b>0.00</b>	<b>512.50</b>
Support Craft/Logistics													
Arrival	Depart	Type	Minutes	Accounting									
00:00		SUPPLY BOAT	EDISON	ENROUTE TO RIG WITH 2000 BBLs BBM, 1000 BBLs BASE OIL (Cr: 1 In: 0 Out: 0)									
		SUPPLY BOAT	1075679										
		HELICOPTER	BP6	S82.3 WAY SHARED FLIGHT (Cr: 1 In: 1 Out: 1)									
		SUPPLY BOAT	1075679										
		SUPPLY BOAT	1176758	AT RIG WORKING AS ORDERED. (Cr: 1 In: 0 Out: 0)									
		SUPPLY BOAT	1151580										
Remarks													
00:00 - 04:00 OPS													
00:00 - 01:00: CONTINUE MONITORING WELL, PERFORMING FLOW CHECK, WORKED PIPE TO ENSURE FREE MOVEMENT. GAINED 19 BBLs TOTAL.													
01:00 - 02:00: CIRCULATING AT 800 GPM'S, 2490 PSI. STOP PUMPING AND CHANGE PUMP LINE UP, RECORD ESD READING.													
02:00 - 03:00: PUMPING AT 1200 GPM'S, DRILLED FROM 9071' TO 9090' AT 30' PER HOUR.													
03:00 - 04:00: CIRCULATING BOTTOMS UP AT 1250 GPM'S, 4300 PSI INCREASING MUD WEIGHT TO 10.1 PPG FOR TRIP MARGIN.													
BUCKING MACHINE OPS:													
HURRICANE T TIME:													
TIME TO SECURE:													
TIME TO EVACUATE:													
ESSENTIAL PERSONNEL:													
NON ESSENTIAL:													
BULLSEYE REPORT													
FLEX JOINT                      BOP													
DEG: 0.50°                      DEG: 1.25°													
HEADING: 310.00°              HEADING: 315.00°													
TIME: 09:55                      TIME: 09:58													

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