



## MALAYSIA

## Daily Operation Report

Well: BY-414				Wellbore No.: OH		Report no.: 23		Report date: 7/1/2020	
WELL INFO									
Event Description: ORIGINAL DRILLING			Water Depth: 97.40 ft			Region: SKA		Rig Name: PV DRILLING II	
Objective: DEVELOPMENT		Field / Platform: BYDP-D			AFE No.: P.CBLGN2B2C.CD.PDDC.814		Start date: 3/8/2020		Spud date: 3/10/2020
Block: Balingan		Lead DS: Anuar Mohamad			Night DS: M Rohaizam Azminuddin		PCSB Engineer:		
DEPTH DAYS						COSTS()			
DOL : 129.50 days		MD : 4,900.0 ft		Rotating Hrs : 39.67 hr		Last Casing : 9.625 in		Daily cost :	
DFS : 20.05 days		TVD : 4,518.3 ft		Cum Rot Hrs : 39.67 hr		Last Hole Size : 12.250 in		Cumm Cost :	
Total Days : 35.30 days		Progress :		Avg. ROP : 0.0 ft/hr		Last Shoe TMD : 4,888.8 ft		AFE Cost :	
Est days :		Final TMD :				Last Shoe TVD : 4,509.2 ft		Supp Costs / Days :	
Daily NPT : 0.00 hr		Cumm NPT : 19.75 hr				Current Hole Size :		Expenditure :	
STATUS									
Current status : Performing Critical Device Function Test (CDFT) on X-mas tree - in progress at report time.									
24 hr summary : Continued rigging up Geowell on SS & LS. P/tested tubing against TCO plug & Inflow tested TRSV in SS. RIH & set PXN plug/prong in LS using slickline. P/tested tubing and inflow tested TRSV in LS. Set & p/tested packer at LS & SS. N/D BOP.									
24 hr forecast : N/U and pressure test X-mas tree. R/U Geowell slickline on LS tree-cap on X-mas tree. CDFT LS & SS of X-mas tree. Pressure up SS tubing to burst TCO plug. Retrieve PXN prong/plug from LS tubing. Secure well and handover to SKO Production.									
Incident / Accident : NIL									
Remarks : NIL									
OPERATION SUMMARY									
From - To	Hrs	Phase Code	Activity Code	Productive / Non-Productive Code	NPT	Rig Status	MD from (ft)	Operation	
0:00 - 1:45	1.75	COM	RCT	OPRN		OPRN	4900.00	Continued rigging up Geowell slickline PCE comprises of X/O, TIW, pump-in tee and test cap onto SS. Continued rigging up X/O, TIW, pump-in tee, slickline BOP and lubricator c/w PXN plug body tool string onto LS. Connected surface lines and lined up to Baker cement unit with Lo-Toq to pump-in tee in LS (with BOP and lubricator).	
1:45 - 2:30	0.75	COM	RCT	OPRN		OPRN	4900.00	Gravity feed well from trip tank through 3-1/2" x 9-5/8" SOV of the Compact Housing - observed loss rate constant at 1 bbl/hr. Pressure tested surface line in LS against closed Lo-Toq valve to 300/5000psi for 5/10 mins - good test. Opened Lo-Toq valve. Pressure tested surface line in LS against closed TIW valve, Geowell dual-ram BOP and lubricator sections with stuffing box to 500/1500psi for 5/10 mins - good test. Bled all pressure to zero psi. Rigged down surface line in LS.	
2:30 - 3:30	1.00	COM	RCT	OPRN		OPRN	4900.00	Connected surface lines and lined up to Baker cement unit with Lo-torq to pump-in tee in SS. Pressure tested surface line in SS against closed Lo-Toq valve to 300/5000psi for 5/10 mins - good test.	
3:30 - 4:30	1.00	COM	RCT	OPRN		OPRN	4900.00	Opened Lo-Toq valve. Pressure tested surface line in SS against closed TIW valve to 300/5000psi for 5/10 mins - good test. Bled all pressure to zero psi. Opened TIW in SS. Schlumberger pressured up control line and maintained at 7000 psi to lock-open TRSV in SS.	
								Cement unit pressure tested SS to 500 psi for 15 mins against TCO plug - good test. Bled off control line pressure to close TRSV, bled off pressure above TRSV to 100 psi to inflow test TRSV plug for 15 mins - good test.	
								Cement unit pressured up back SS to 500 psi to equalize. Schlumberger pressured up control line and maintained at 7000 psi to lock-open TRSV in SS. Bled SS pressure to zero psi.	
4:30 - 6:45	2.25	COM	RCT	OPRN		OPRN	4900.00	Note: Volume to open flapper: 140 ml. Volume close flapper: 140 ml. RIH 2.750" PXN plug body and set plug at XN-Nipple in LS at 4549 ft-MD. POOH toolstring. RIH with prong on slickline and set same on PXN plug body. POOH with slickline toolstring to surface.	
6:45 - 7:00	0.25	COM	RCT	OPRN		OPRN	4900.00	Broke out Geowell dual-ram BOP and lubricator sections from LS and set back on the rig floor. Installed test cap on top of pump-in tee on LS	

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7:00 - 7:15	0.25	COM	RCT	OPRN		OPRN	4900.00	(maintaining cementing hose to the pump-in tee to LS). With TIW in open position in LS, Schlumberger pressured up control line and maintained at 7000 psi to lock-open TRSV in LS. Cement unit pressure tested LS to 500 psi for 15 mins against PXN plug - good test. Bled off pressure to zero psi.
7:15 - 7:30	0.25	COM	RCT	OPRN		OPRN	4900.00	Bled off control line pressure to close TRSV, bled off pressure above TRSV to 100 psi to perform TRSV Low Pressure Inflow Test of LS for 15 mins - good test. Cement unit pressured up back LS to 500 psi to equalize LS pressure above and below TRSV. Schlumberger pressured up control line and maintained at 7000 psi to lock-open TRSV in LS.
7:30 - 8:00	0.50	COM	RCT	OPRN		OPRN	4900.00	Cement unit pressure tested surface lines against closed TIW on LS to 300/5000 psi for 5/10 mins - good test. Bled off pressure to zero psi. Opened TIW valve.
8:00 - 8:45	0.75	COM	RCT	OPRN		OPRN	4900.00	Commenced to set Schlumberger BluePack RH Single-Packer. Pressured up LS to 3500 psi and held for 15 mins, observed pressure flickering at 1100 psi - good indication of Schlumberger BluePack RH Single-Packer had set successfully. Bled off LS pressure to 2500 psi.
8:45 - 9:15	0.50	COM	RCT	OPRN		OPRN	4900.00	Commenced performing TRSV High Pressure Inflow Test of LS. With tubing pressure at 2500 psi, bled off control line pressure to zero psi to close TRSV. Bled off LS tubing pressure above TRSV to 500 psi, held for 5 mins - good test. Equalized LS pressure to 2500 psi and opened TRSV in LS. Continued to lock 2500 psi pressure inside LS tubing.
9:15 - 10:00	0.75	COM	RCT	OPRN		OPRN	4900.00	Lined up Baker cement unit to SS tubing. Commenced to set Schlumberger OSD-1 Dual-Packer. Pressured up SS to 3000 psi for 15 mins, observed pressure flickering 2100 psi - good indication of Dual-Packer had set successfully. Bled off SS pressure to zero psi. Pressured up back the SS tubing again to 2000 psi for 15 mins to fully energize Schlumberger OSD-1 Dual-Packer. Bled off SS pressure to 2500 psi.
10:00 - 10:15	0.25	COM	RCT	OPRN		OPRN	4900.00	Commenced performing TRSV High Pressure Inflow Test of SS. With tubing pressure at 2500 psi, bled off control line pressure to zero psi to close TRSV. Bled off LS tubing pressure above TRSV to 500 psi, held for 5 mins - good test. Equalized SS pressure to 2500 psi and opened TRSV
10:15 - 11:15	1.00	COM	RCT	OPRN		OPRN	4900.00	in LS. Continued to lock 2500 psi pressure inside SS tubing. Lined up surface lines from Baker cement unit to 3-1/2" x 9-5/8" SOV on the Compact Housing. Flushed surface lines until returns observed at the wellhead. Connected surface lines to the SOV and pressure tested surface lines against Lo-Toq to 2000 psi for 5 mins - good test. Opened up 3-1/2" x 9-5/8" annulus valve and commenced to pressure test dual-packer from the top. Baker cement unit pumped in stages to 1500 psi and held for 15 mins against Schlumberger OSD-1 Dual-Packer - good test. Bled off pressure from the annulus, LS, and SS tubing to zero psi. Closed 3-1/2" x 9-5/8" annulus valves. Volume pumped: 2.2 bbls, Volume returned: 2.2 bbls.
11:15 - 12:00	0.75	COM	RCT	OPRN		OPRN	4900.00	Rigged down surface line and Geowell slickline PCE comprises of X/O, TIW, pump-in tee and test cap from SS tubing. Rigged down surface line and Geowell slickline PCE comprises of X/O, TIW, pump-in tee, slickline BOP and lubricator from LS.
12:00 - 13:00	1.00	COM	RCT	OPRN		OPRN	4900.00	Retrieved Solar Alert 3-1/2" Dual-Tubing Hanger Running Tool (THRT) and laid down 3-1/2" tubing hanger landing joints on deck.
13:00 - 14:15	1.25	COM	RCT	OPRN		OPRN	4900.00	Made up Solar Alert TWCV to Dry-Rod Assembly. RIH and installed inside 3-1/2" dual-tubing hanger. POOH and laid down Solar Alert Dry-Rod Assembly. Meantimes, rigged down Destini Oil 3-1/2" dual-completion handling equipment and Schlumberger Completion bled off TRSV control line pressure, cut and terminated TRSV and PDG control lines.
14:15 - 15:45	1.50	COM	RCT	OPRN		OPRN	4900.00	Held PJSM. Laid down mouse hole. Made up diverter running tool on 5-7/8" HWD and locked into the diverter housing. Bled off Koomey pressure. Disconnected shackles from secondary tension slings. Retrieved and racked back diverter in derrick. Retrieved and laid down

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15:45 - 16:30	0.75	COM	RCT	OPRN		OPRN	4900.00	overshot on cantilever deck.
16:30 - 18:15	1.75	COM	RCT	OPRN		OPRN	4900.00	Installed bell nipple lifting slings on TDS. Nipped down bell nipple, retrieved and laid down onto cantilever deck.
18:15 - 19:30	1.25	COM	RCT	OPRN		OPRN	4900.00	Rigged up 60 MT x 90-ft working slings on TDS and connected to 18-3/4" BOP as secondary safety slings. Disconnected 13-5/8" BOP with Adapter from HP riser. Lifted up and moved BOP (18-3/4" and 13-5/8") with BOP winches to the port side end of Slot-B. Disconnected BOP secondary retention slings from TDS and connected the slings to CTU cylinders. Suspended the BOP (18-3/4" and 13-5/8") above the BYDP-D platform main deck.
19:30 - 22:00	2.50	COM	RCT	OPRN		OPRN	4900.00	Nipped down Solar Alert HP riser and laid down on BYDP-D platform main deck.
22:00 - 23:00	1.00	COM	RCT	OPRN		OPRN	4900.00	Schlumberger Completion and Solar Alert terminated TRSV and PDG control lines at the exit blocks.
23:00 - 0:00	1.00	COM	RCT	OPRN		OPRN	4900.00	Installed main hatch cover on Slot-A. Schlumberger Completion pressure tested TRSV control line integrity on LS to 9000 psi for 15 mins - good test (all charted). Functioned TRSV to 4500 psi and recorded TRSV 5-cycle bled back volume (70 ml, 70 ml, 70 ml, 70 ml, 70 ml) - good test. Schlumberger Completion pressure tested TRSV control line integrity on SS to 9000 psi for 15 mins - good test (all charted). Functioned TRSV to 4500 psi and recorded TRSV 5-cycle bled back volume (75 ml, 75 ml, 75 ml, 75 ml, 75 ml) - good test.  Note: Schlumberger Completion performed continuity check after the termination of PDG control line - good communication to PDG downhole. Tubing pressure (inner) on PDG was 1241 psi, Temp 80 °C.  Meantime, keeled down X-mas tree from cantilever deck to platform main deck.  ***** VDL Daily Report ***** Total recorded VDL = 7207 kips Max allowable VDL = 7600 kips Available load margin = 393 kips  -----  July 2, 2020  00:00 - 01:15 Nipped up X-mas tree on BY-414.  01:15 - 02:30 Pressure tested X-mas cavity to 5,000 psi / 15 mins - good test. Filled up X-mas tree body with water and pressure tested to 5,000 psi / 15 mins against TWCV - good test (charted). Retrieved TWCV from both SS and LS with Dry-Rod Assembly.  Closed LMV, WV and CV. Counted and recorded no of turns on LMV, Wing Valve (WV) and Crown Valve (CV) to be 19 turns to open, 19 turns to close.  02:30 - 04:30 Picked up and made up 3-1/2" landing string tubing for LS. RIH and connected onto the tree cap (LS) of the X-mas tree. Rigged up Geowell Slickline PCE consisted of TIW, pump-in tee with Lo-Toq at LS. Connected cement line hose to the pump-in tee at LS and lined up to Baker cement unit.

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OPERATION SUMMARY										
From - To	Hrs	Phase Code	Activity Code	Productive / Non-Productive Code	NPT	Rig Status	MD from (ft)	Operation		
								<p>Made up pump-in tee with Lo-Toq onto tree cap (SS) of the X-mas tree.</p> <p>04:30 - 05:45 Performed Critical Device Function Test (CDFT) for LS side of X-mas tree.</p> <p>1. Pressure tested surface line to 500/5000 psi for 5/5 mins - good test. 2. Pressure tested Crown Valve (CV) to 500/5000 psi for 5/5 mins - good test. 3. Pressure tested Lower Master Valve (LMV) to 500/5000 psi for 5/5 mins - good test.</p> <p>Pressured up and locked 2000psi in long string.</p> <p>05:45 - 06:00 Lined up surface line to perform Critical Device Function Test (CDFT) for SS side of X-mas tree - in progress at report time.</p>		



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BIT DATA			MUD CHECK			MUD CHECK		
Bit No.			Daily mud: 0.00 \$			Cum. mud cost: 160,702.60 \$		
Run			Type			Pm (cc)		
Size			Time/Loc			Pf/Mf (cc/ cc)		
Manufacturer			TMD (ft)	4,900.0		Ca+ (ppm)		
Type			Temp (°F)			K+ (ppm)		
Serial no.			Density (ppg)	6.70		Polymer (lbm/bbl)		
TFA			ECD (ppg)			CaCl2 (%)		
Cond (IODL)			Viscosity (s/qt)			NaCl (%)		
Cond (BGOR)			PV (cp)			Sand (%)		
Jets			YP (lbf/100ft²)			Tot. Solids (%)		
TMD In			Gels (lbf/100ft²)			% Oil (%)		
TMD Out			Api WL (cc/30min)			% H2O (%)		
Cum TMD			HTHP WL			Oil/H2O (%)		
Cum Hrs			(cc/30min)			HGSolid (lbm/bbl)		
WOB Min			API FC (32nd")			LGSolid (lbm/bbl)		
WOB Max			MBT (lbm/bbl)					
RPM Min			Lime (lbm/bbl)					
RPM Max			pH			Comments		

GAS READINGS			MUD VOLUME		
Avg. conn. gas (%)	:		Total string vol. (bbl)	:	25.2
Max. connection gas (%)	:		Total annular vol. (bbl)	:	277.8
Avg. trip gas (%)	:		Total pit vol. (bbl)	:	2,630.0
Max. trip gas (%)	:		Lines (bbl)	:	0.0
Avg. background gas (%)	:				
Max. background gas (%)	:				
Avg. H2S (%)	:				
Max. H2S (%)	:				
			Total system vol. (bbl)	:	438.0

PUMP/HYDRAULICS				PIPE DATA				ANN. VELOCITIES	
Pump	NOV			Min ID (in)		BHA (ft)	0.00	Drill Pipe (ft/min)	
Liner	6.500			DC OD (in)		DP OD (in)		Drill Collar (ft/min)	
Stroke	14.00			DC (ft)	0.00	String Rot Weight		Riser (ft/min)	
EFF				HWDP OD (in)		Pick-Up Weight			
Pressure				HWDP (ft)	0.00	Slack Off Weight			
SPM									
Output									

SHAKER			CENTRIFUGE			HYDROCYCLONE		
Type	Mesh Size	HRS	Type			Type		HRS
			RPM					
			Process Outp.					
			Overflow Outp.					
			Overflow Dens.					
			HRS					
			Opcode					

LOT/FIT			FORMATION DATA		
EMW	MAASP	Max Mud Wt	Formation		Top (ft)
	0.00				

SUPPORT CRAFT			
Name	Comments	Arrival date	Departure date
JM Ehsan	At PVD2.		
MM Teguh	At ASB.		

BULKS										
Product name	BARITE	POT WATER	BRINE	FUEL	BENTONIT E	G CEMENT	DRILL WATER	BASE OIL	MICROBO ND CEMENT	
Unit	MT	M3	MT	M3	MT	MT	M3	M3	MT	
Quantity end	169	146	144	178		65	205	38	18	
Usage		40		8			15			
Received		40								
Returned										
Adjusted										

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<b>WEATHER</b>		<b>SAFETY CARDS</b>			<b>PERSONNEL</b>				
Time : 00:00			Daily	Cumulative	Total No. of People: 119		No. of Beds : 120		
Weather : PARTLY CL		UNSAFE COND	17	99	Company		# People	Company	
Daily High/Low Temp (°F) : 75.00		POSITIVE CAR	73	531	BAKER LINER HANGER		1	ISOS	
10M wind spd. (knots) : 9.0		UNSAFE ACT	4	113	HALLIBURTON TCP		1	WELLTEC TRACTOR	
10M wind dir. (°) : 285.00		Total Cards	94	743	PETRONAS SOR		1	HALLIBURTON CEMENTIN	
Ceiling(ft) :					SCHLUMBERGER PDG		2	SOLAR ALERT	
Visibility(mi) : 7.00					PETROCLAMP		2	BAKER CEMENTING	
Swell Height (ft) : 0.65					NOV		2	SCHLUMBERGER COMPL	
Swell Direct (°) : 270.00					HALLIBURTON DST		2	HALLIBURTON COMPLETI	
Speed (knots) : 0.80					HALLIBURTON FILTRATIO		2	HALLIBURTON BAROID	
Dir (°) : 263.00					BAKER HUGHES DD/MWD		3	GEOWELL SLICKLINE	
Heave (ft) :					EXLOG		4	PETRONAS DRILLING	
Pitch (°) :					DESTINI TRS		6	HALLIBURTON E-LINE	
Roll (°) :					PVDO		8	BAYAM	
Wave Height (ft) : 0.65					PVD DD		12	BAYONG	
Wave Direct (°) : 275.00									
Wave Period (sec) : 4.00									
<b>ANCHOR TENSION</b>									
Tension (kip)									
Direction (°)									
<b>SAFETY</b>									
Days Since Last NLTA (days) : 140		Drill type : Fire Drill		Last weekly rig check : 7/1/2020		Last BOP pressure test : 6/25/2020			
Days Since LTA (days) : 140		Last drill : 0.00 (days)		Daily inspection done : 7/1/2020		Next test due :			
STOP Cards : 94		Last Fire Drill : 7/1/2020		Last safety inspection : 7/1/2020		Last safety meeting : 6/28/2020			
Incident / Accident :		Next Fire Drill : 7/1/2020		Last BOP function test :		Last BOP drill :			
<b>SURVEYS</b>									
MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. sec. (ft)	Dleg (°/100ft)	Survey tool	

