



# Offshore Daily Operations Report

BZA-3(F)

VELESTO DRILLING SDN BHD NAGA 8

Well Name: BUNGA ZETUNG A-3 (F)  
Job Category: Drilling : Drilling  
Target Depth: 9,360.0  
Current Depth: 5,525.0 MD : 3,970.8 TVD

Report Start Date: 6/21/2020  
Report No: 12.0  
Cum Days on Job: 10.85

Well Information													
Country Malaysia		Asset Area Malaysia		Well Type Development or Production		Start Date 8/1/2019 09:00		Original Spud Date 8/1/2019 15:30					
Lease PM 302			Well Location Type Platform		Well Configuration Type Deviated			API/UWI Not Assigned					
Latitude (°) 0° 51' 55.562" N		Longitude (°) 0° 18' 39.19" E		UTM Easting 313380.71		UTM Northing 759145.78		Original KB Elevation (ft) 142.49		Water Depth (ft) 183.80		KB-Mud Line Distance (ft) 326.49	

Health and Safety Summary			
Type	Severity	Category	Com
			No accident or incident.

Safety Checks			
Date	Type	Result	Com
6/21/2020 00:15	Key Risk - Top 3 Next 24 Hrs.	Acceptable	Trip in hole (pinch point, manual handling, miscommunication), pressure test (high pressure line, miscommunication, trapped pressure), drilling 8-1/2" hole section (LOPC, well control, line of fire).
6/21/2020 03:00	Audit	Acceptable	EHS 21.06.2020 JSA-DRLG-520-Rev1 DP connection. Went right: Correct body posture during manual handling (slip). Using tail rope to guide DP to rotary table. Proper hand placement when making up connection.
6/21/2020 10:15	Audit	Acceptable	SC 21.06.2020 - PTW 09576-JSA Mech 451-Repair leak on fluid filter at Koomey unit. What went right: All involved have reviewed the JSA. LOTO in place and verified. Crew working in a buddy system.
6/21/2020 11:30	Pre-Tour Safety Meeting	Acceptable	Drilling 8 1/2" section - Check to ensure all equipment is in good condition. During latching of the elevator, remind crew of pinch point hazard. Ensure everybody is away from the Iron Roughneck track when making up connections. No one is allowed to touch the Iron Roughneck controls until the area in front of it is clear. Ensure the clamp for the Iron Roughneck is in good condition for spinning out drillpipe. If making up the connection using rig tongs, ensure hands are only placed on the green handle areas. All personnel to stay clear when the snub line is being tensioned up. Ensure adequate personnel when handling the slips. Proper manual handling during lifting and setting of slips. Keep away from the red zone when not required. Ensure FOSV is online. Speak up and TOFS if observe that something is not right.
6/21/2020 13:00	Weekly Safety Meeting	Acceptable	1. HSE statistics: KPI performance and HOC Trending review (QHSE). 2. Drill Debrief & Grow Model Action Plan from Suggestion Box (QHSE). 3. Housekeeping & Other findings at Naga 8. 4. Safety expectation by Barge Master, OIM and LDSV, ABM, STP and NDSV. 5. HOC & Junior Leadership Incentive award (Hess & Velesto).
6/21/2020 21:00	Audit	Acceptable	CWP 09575VEB JSA_CEMENTER-002-REV9 Pressure Test (FIT) at cementing unit. Safety remark: Good communication with drill floor. Tools and equipment had been checked prior to starting the job. Area was barricaded off to notify other personnel of on-going job and not to enter the area.
6/21/2020 23:30	Pre-Tour Safety Meeting	Acceptable	See comments from previous pre-tour meeting.

Observation Cards	
# Observation Reports	Best Observation Card
128	Observation: Before mixing in Bridgmaker II LCM in cement unit displacement tank, reviewed JSA for mixing and pumping cement. There was no hazard for handling sacks and mixing in LCM in displacement tank identified. Action: Informed crew to add in the hazard and include mitigations, such as dust mask, and use retractable knives to cut open chemicals in sacks.

Stop the Job		
Stop the Job	Days LTI (days)	Days RI (days)
22.0	524.00	330.00

Daily Operations	
Operations at Report Time Continued drilling 8-1/2" hole section at 5525 ft.	24 Hour Plan Drilling 8-1/2" hole section from 5525 ft to section TD.
Operations Summary Continued M/U and RIH 8-1/2" drilling BHA from 381 ft to 599 ft. RIH 8-1/2" drilling BHA on 4" DP from 599 ft to 1070 ft. Performed MWD shallow pulse test with 11.5 ppg OMNI Flow SBM. Continued RIH 8-1/2" drilling BHA on 4" DP from 1070 ft to 4011 ft. P/U, M/U 9-5/8" drilling scraper onto string and RIH to 5340 ft. Washed down string with 11.5 ppg OMNI Flow SBM and tagged TOC at 5399 ft. Performed choke drill and drilled out 9-5/8" casing shoe track from 5399 ft to 5489 ft. Cleaned out rat hole. Drilled 10 ft of new formation to 5512 ft and circulated hole clean. Performed FIT to 14.0 ppg EMW. Continued drilling ahead 8-1/2" hole section from 5512 ft to 5525 ft.	



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Comment  
 NPT Summary:

Daily (Cumulative) duration: 0.0 hrs (7.5 hrs)  
 Operation NPT percentage to date: 2.88 %.

Ditch magnet recovery last 24 hours: 0 gram.  
 Cumulative for 8-1/2" hole section: 0 gram.

All depths in ft below rotary table unless otherwise stated.

## Daily Cost/Time Summary

AFE Number 427-00046.27.02.04	Total AFE + Supp Amount (Cost) 11,427,984.00	Cum Field Est To Date (Cost) 4,312,358.57	Daily Field Est Total (Cost) 497,824.44	Daily Mud Field Est (Cost) 288,228.56	Cum Mud Field Est (Cost) 721,612.31
Start Depth (ftKB) 5,502.4	End Depth (ftKB) 5,525.0	Depth Progress (ft) 22.60	AFE Duration (P50) (days) 20.82	AFE Cum (P50) (days) 8.25	ActualCumDurSt (days) 10.85
					Ahead/BehindPlanJob (days) -2.60

## Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Phase	Activity	Ops Category	NPT	Resp Party	Description
00:00	0.50	0.50	PRDRL1	BH	OS	P		Continued making up and RIH 8-1/2" drilling BHA from 381 ft to 599 ft.  2 x 5-1/2" HWDP jts 7" Accelerator 4 x 5-1/2" HWDP jts X-over Sub (5-1/2" FH P x 4" XT39 B)  Filled up string at 592 ft with 11.5 ppg OMNI Flow SBM.  BHA weight: 33 klbs.
00:30	1.00	1.50	PRDRL1	TR	OS	P		RIH 8-1/2" BHA on 4" DP from 599 ft to 1070 ft.  Installed 5-1/2" FOSV onto string. Changed out 5-1/2" elevator to 4" elevator. M/U and RIH 1 x stand of 4" DP to 694 ft. Installed 4" FOSV onto string. Changed out 5-1/2" dies to 4" dies on Iron Roughneck.  Continued RIH 8-1/2" BHA on 4" DP from 694 ft to 1070 ft.  Monitored well on trip tank – observed correct displacement.
01:30	1.00	2.50	PRDRL1	ET	OS	P		Performed MWD shallow pulse test with 11.5 ppg OMNI Flow SBM.  M/U X-Over Sub (4" XT39 P x 5-1/2" FH B) onto string. Broke seal for rotary steerable system with 10-40 rpm, 0.4-1.0 kft-lbs torque.  Staged up pumps. 225-500 gpm 650-1940 psi  Minimum flowrate for detection: 350 gpm. Downlinked to set RSS to home position. Disabled manual mode – OK. Downlinked to switch to battery saving mode.  Broke out X-over (4" XT39 P x 5-1/2" FH B).  Mud weight in/out: 11.5 ppg / 11.5 ppg Mud temp in/out: 110 degF / 120 degF Corrected to 120 deg F: 11.4+ ppg / 11.5 ppg
02:30	2.50	5.00	PRDRL1	TR	OS	P		Continued RIH 8-1/2" BHA on 4" DP from 1070 ft to 3631 ft.  Average RIH speed: 14 stds/hr (incl filling up) Filled up string every 10 stds of 4" DP with 11.5 ppg OMNI Flow SBM. Made up 5-1/2" FH B x 4" XT39 P X/over onto string for filling up.  Monitored well on trip tank – observed correct displacement.  Note: Weight of BHA + 4" DP = 53 klbs.



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05:00	1.00	6.00	PRDRL1	TR	OS	P		Continued RIH 8-1/2" BHA on 5-1/2" DP from 3631 ft to 4011 ft.  Changed out 4" elevator to 5-1/2" elevator. Changed to 5-1/2" dies on iron roughneck M/U X-Over Sub (4" XT39 P x 5-1/2" FH B) onto string. Filled up string every 10 stds with 11.5 ppg OMNI Flow SBM.  Performed kick drill at 3652 ft. Took 40 seconds to stab FOSV and secured well.  Monitored well on trip tank – observed correct displacement.
06:00	0.50	6.50	PRDRL1	BH	OS	P		Picked up and made up 9-5/8" drilling scraper onto string.  RIH to 4024 ft. Continued RIH 8-1/2" BHA on 5-1/2" DP from 4024 ft to 4118 ft.  Drifted 5-1/2" DP stand with 3" drift and made up 9-5/8" drilling scraper.  Monitored well on trip tank - observed correct fluid displacement.
06:30	1.50	8.00	PRDRL1	TR	OS	P		Continued RIH 8-1/2" BHA on 5-1/2" DP from 4118 ft to 5340 ft.  Average RIH speed: 15 stds/hr. Filled up string every 10 stds with 11.5 ppg OMNI Flow DIF. Drifted 5-1/2" DP stand with 3" drift.  Observed correct fluid displacement.
08:00	0.50	8.50	PRDRL1	WR	OS	P		Washed down string with 11.5 ppg OMNI Flow SBM from 5340 ft to 5399 ft and tagged TOC.  300 gpm 710 psi  Tagged TOC at 5399 ft (float collar depth at 5400.17 ft) with 10 klbs down weight. Confirmed tag. Drifted 5-1/2" DP stand with 3" drift.
08:30	0.50	9.00	PRDRL1	SM	OS	P		Performed choke drill.  Spaced out and closed upper pipe ram (cased hole). Brought pumps up to 40 spm holding 300 psi against the casing using auto choke.  Staged down pumps to 0 spm while holding 300 psi on casing using choke line - good drill.



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Start Time	Dur (hr)	Cum Dur (hr)	Phase	Activity	Ops Category	NPT	Resp Party	Description
09:00	7.00	16.00	PRDRL1	SH	OS	P		<p>Drilled out 9-5/8" shoe track from 5399 ft to 5486 ft while displacing mud to 11.5 ppg OMNI Flow DIF.</p> <p>Held PJSM. Emptied MGS and trip tank.</p> <p>Drilled top plug, bottom plug and float collar from 5399 ft to 5403 ft. 10 - 15 klbs WOB 380 gpm 1300 - 1460 psi 40 - 70 rpm 4 - 6 kft-lbs torque ECD 11.85 - 11.95 ppg Drillout time: 60 minutes.</p> <p>Worked string occasionally due pack off tendency with pressure spike of ~100 – 200 psi. Bypassed cutting dryer and bypassed sand trap.</p> <p>Drilled cement in shoe track from 5403 ft to 5486 ft. 2 - 16 klbs WOB 350 - 400 gpm 1356 - 1460 psi 70 rpm 4 - 8 kft-lbs torque ECD 11.76 - 11.95 ppg Drillout time: 351 minutes.</p> <p>Worked string occasionally due to pack off tendency.</p> <p>Firm cement observed beyond 5409 ft with WOB 1 – 3 klbs at 50 ft/hr ROP.</p> <p>Reamed through float collar twice – no drag observed. Washed through float collar twice – no drag observed.</p> <p>At 5419 ft, observed pressure spiked from 1971 – 2256 psi (285 psi).Picked up string off bottom and worked string. Reduced flowrate from 500 gpm to 350 gpm and observed pressure 131 psi higher than pressure at previous 400 gpm flowrate. Varied flowrate between 100 gpm and 350 gpm try clear any debris– no reduction in pressure Varied RPM between 10 rpm to 70 rpm – no reduction in pressure observed.</p> <p>P/U:178 klbs, S/O: 155 klbs, ROT: 163 klbs at 5432 ft.</p> <p>Mud weight in/out: 11.5 ppg / 11.4+ ppg Mud temp in/out: 129 degF / 142 degF Corrected to 120 deg F: 11.5 ppg / 11.5 ppg</p> <p>Shaker screen size: Shaker #1, #3: API 170. Shaker #2, #4: API 200.</p>



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16:00	3.00	19.00	PRDRL1	DR	OS	P		<p>Drilled float shoe and rat hole from 5486 ft to 5502 ft.</p> <p>Drilled float shoe from 5486 ft to 5489 ft. 5 - 10 klbs WOB 350 gpm 1463 psi 60 rpm 4 -5 kft-lbs torque Drill out time: 68 minutes.</p> <p>Worked string occasionally due to tendency of packing off. At 5486 ft, performed pit drill by pumping from cement unit. Quick response by the driller but mudlogger did not detect due to flow paddle. Mudlogger troubleshoot flow paddle issue while drilling out float shoe.</p> <p>Cleaned out rat hole from 5489 ft to 5502 ft with 11.5 ppg SBM. 2 - 3 klbs WOB 350 gpm 1437 - 1500 psi 60 rpm 3 - 5 kft.lbs torque Clean out time: 33 minutes.</p> <p>Only firm to moderate cement observed in rat hole with WOB between 1 – 3 klbs and instantaneous ROP 50 ft/hr.</p> <p>Reamed through float shoe twice with pumps and rotation – no restriction. Washed through float shoe twice – no restriction. 5498 ft – 100% cement (firm to moderate hard).</p>
19:00	0.50	19.50	PRDRL1	DR	OS	P		<p>Drilled 10 ft of new formation from 5502 ft to 5512 ft.</p> <p>1 - 8 klbs WOB 350 gpm 1470 psi 60 rpm 4 -6 kft-lbs torque</p> <p>Pulled back inside 9-5/8" shoe.</p> <p>Mud weight in/out: 11.5 ppg / 11.4+ ppg Mud temp in/out: 133 degF / 150 degF Corrected to 120 deg F: 11.5 ppg / 11.5 ppg</p>



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Start Time	Dur (hr)	Cum Dur (hr)	Phase	Activity	Ops Category	NPT	Resp Party	Description
19:30	1.00	20.50	PRDRL1	CC	OS	P		<p>Circulated hole clean with bit inside the shoe with 11.5 ppg OMNI Flow DIF in and out.</p> <p>350 gpm 1426 psi 60 rpm 4 - 5 kft-lbs torque ECD 11.85 ppg ESD 11.48 ppg</p> <p>Background gas 0.2%.</p> <p>Circulated 1.5 x bottoms up. Bottom up sample : 20% claystone / 80% cement</p> <p>No losses observed.</p> <p>Mud weight in/out: 11.5 ppg/11.4+ ppg Mud temp in/out: 135 degF/150 degF. Corrected to 120 deg F: 11.5 ppg / 11.5 ppg</p> <p>Shaker screen size: Shaker #1, #3: API 170. Shaker #2, #4: API 200.</p>
20:30	1.00	21.50	PRDRL1	RU	OS	P		<p>Rigged up pump-in tee and pressure tested surface line.</p> <p>Picked up pump-in tee with TIW valves from catwalk and made up to drill string and top drive. Installed lo-torq valve and hooked up surface line to pump-in tee. Lined up surface line to cement unit. Cementer flushed surface line down string and lower kill line with 5 bbls of 11.5 ppg OMNI Flow DIF. Closed FOSV valves on pump-in tee and lower kill HCR. Pressure tested surface line to 1000 psi for 5 mins. Bumped up pressure several times to achieve good pressure test.</p>
21:30	1.00	22.50	PRDRL1	LT	OS	P		<p>Performed FIT with bit inside 9-5/8" casing at 5445 ft (casing shoe at 5489.15 ft MD, 3963.32 ft TVD).</p> <p>Flushed surface lines. Closed middle pipe rams and opened lower kill line HCR.</p> <p>Performed FIT via cement unit with 11.5 ppg SBM to achieve 14.0 ppg EMW.</p> <p>Cementer pumped total of 1.4 bbls of 11.5 ppg SBM at 0.2 bpm. Stopped pumps when pressure reached 515 psi (14.0 ppg EMW). Monitored pressure for 10 mins. Pressure stabilized at 474 psi. Bled off pressure to cement unit - returned 1.4 bbls.</p> <p>Opened middle pipe rams and closed lower kill line HCR.</p>
22:30	0.50	23.00	PRDRL1	RD	OS	P		<p>Rigged down surface lines. Broke out and laid down pump-in tee assembly. Pump down string with 350 gpm, 1425 psi to pulse up ESD data.</p> <p>Max ESD value: 13.83 ppg.</p>



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Start Time	Dur (hr)	Cum Dur (hr)	Phase	Activity	Ops Category	NPT	Resp Party	Description
23:00	0.50	23.50	PRDRL1	WR	OS	P		Took SCR and washed down from 5445 ft to 5512 ft.  Washed and reamed down from 5445 ft to 5512 ft 370 - 390 gpm 1588 - 1780 psi 60 rpm 4.5 to 5.0 kft-lbs torque  Obtained SCR values at 5480 ft.  MP#1 Rate Pressure 20 SPM 190 psi 30 SPM 325 psi 40 SPM 554 psi  MP#3 Rate Pressure 20 SPM 190 psi 30 SPM 325 psi 40 SPM 554 psi  Downlink to set deflection and tool face for drilling.
23:30	0.50	24.00	PRDRL1	DR	OS	P		Drilled ahead 8-1/2" hole from 5512 ft to 5525 ft with 11.5 ppg SBM.  Drilled with controlled parameters until top stabilizer cleared 9-5/8" casing shoe.  WOB 1.0 – 3.5 klbs 390 gpm 1770 psi 80 rpm 5 - 6 kft-lbs torque 40- 50 ft/hr instantaneous ROP 30 ft/hr average ROP ECD 11.98 – 12.02 ppg  Background gas: 0.1 – 0.2%  Reamed single before making connection.  Bottoms up sample from 5525 ft: 70% claystone, 30% cement.  Mud weight in/out: 11.5 ppg/11.4+ ppg Mud temp in/out: 122 degF/150 degF. Corrected to 120 deg F: 11.5 ppg / 11.5 ppg  No losses observed.  Shaker screen size: Shaker #1 API 170. Shaker #2, #3, #4: API 200.

Daily Offline Time Log Summary								
Start Time	Dur (hr)	Cum Dur (hr)	Phase	Activity	Ops Category	NPT	Description	
01:30	1.00	131.50	PRDRL1	ET			Pressure tested 5-1/2" FOSVs and IBOP to 300/ 5000 psi for 5/ 5 mins.	
02:30	2.50	134.00	PRDRL1	ET			Pressure tested cement line to HCR Lower Kill to 1000 psi for 5 mins. Centrifuge mud from sand trap to Pit #8.	



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### 00:00 - 6:00 Time Log

Start Time	Dur (hr)	Phase	Activity	Ops Category	NPT	Description
00:00	5.00	PRDRL1	DR	OS	P	<p>Drilled ahead 8-1/2" hole from 5525 ft to 5693 ft with 11.5 ppg OMNI Flow DIF.</p> <p>Drilled with controlled parameters until top 8-1/8" stabilizer cleared 9-5/8" casing shoe. Increased drilling parameters after stabilizers cleared shoe, from 5674 ft.</p> <p>WOB 4 – 9 klbs 390 – 500 gpm 1770 – 2730 psi 80 – 150 RPM 5 - 6 kft-lbs torque 30- 100 ft/hr instantaneous ROP 34 ft/hr average ROP ECD 12.02 – 12.38 ppg ESD 11.46 – 11.51 ppg Background gas: 0.1 – 0.2%</p> <p>Reamed stand before making connection.</p> <p>Kept WOB within recommended range to avoid jar in neutral point.</p> <p>From 5525 to 5673 ft, low ROP of 30 – 60 ft/hr observed due to limited WOB to keep jar out of neutral zone (in tension). Attempted to increase ROP by increasing WOB, WOB in jar neutral transition zone.</p> <p>At 5559 ft, observed tendency to pack off with pressure increasing from 1795 to 1862 psi and torque from 5.5 to 7.1 kft-lbs. Picked up string and worked string ~25 ft. Pressure back to normal. Continued drilling.</p> <p>At 5664 ft, stopped rotation and re-cycled pumps to take updated survey for EarthStar VDR tool (Geosteering) QC when all VDR collars out of casing shoe.</p> <p>Reamed a single before stopping pumps and rotation. Took survey 3 ft off bottom and continued drilling.</p> <p>From 5674 ft, increased WOB to achieve ROP 100 ft/hr and continued drilling with jar in compression.</p> <p>Mud weight in/out: 11.5 ppg/11.4+ ppg Mud temp in/out: 137 degF/152 degF. Corrected to 120 deg F: 11.5+ ppg / 11.5 ppg</p> <p>No losses observed.</p> <p>Shaker screen size: Shaker #1 API 170. Shaker #2, #3, #4: API 200.</p> <p>At 0155 hrs, 5599 ft, diverted cuttings into auger and cuttings dryer when &lt;10% cement over shakers. Cuttings sample: 5% cement, 95% claystone.</p> <p>At 0445 hrs, 5673 ft, switched on small bowl centrifuge.</p> <p>No cavings observed over shakers. P/U:184 klbs, S/O: 151 klbs, ROT: 162 klbs</p> <p>Last survey: 5593.16 ft MD, 3984.60 ft TVD, Incl 78.87 deg, Azi 16.75 deg. Well position 1.36 ft below and 0.28 ft left of plan.</p>

### Mud/Fluid Checks

Mud/Fluid Check Depth: 5,502.0, 6/21/2020 20:50

Type OMNIFLOW DIF		Density (lb/gal) 11.50	ECD - Manual E...	T Flowline (°F)	T BH (°F)	P BH Static (psi) 2,369.3	Funnel Viscosity (s/qt) 48	PV Calc (cP) 29.0	YP Calc (lb/100ft²) 17		
Gel 10 sec (lb/100ft²) 10.000		Gel 10 min (lb/100ft²) 13.000		Gel 30 min (lb/100ft²) 14.000		Low Shear Yield Point (lb/100ft²)		Filtrate (mL/30min)			
Vis 3rpm 7	Vis 6rpm 9	Vis 30rpm	Vis 60rpm	Vis 100rpm 23	Vis 200rpm 35	Vis 300rpm 46	Vis 600rpm 75				
HTHP Filter Cake (1/32") 1		HTHP Filtrate (mL/30min) 2.8		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0		pH	MBT (lb/bbl)		
Percent Water (%) 19.0		Percent Oil (%) 62.5		Oil Water Ratio 76.7/23.3		CaCl (ppm)		Solids (%) 18.5	Sand (%)	Low Gravity Solids (%) 4.7	High Gravity Solids (%) 11.7
Bk Gas Avg (%)	Conn Gas Avg (%)	Avg Trip Gas (%)	Max Trip Gas (%)	Max H2S (ppm)	Electric Stab (V) 0.6	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Lime (lb/bbl) 5.4	Chlorides (ppm)	





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Weather Conditions							
Temperature (°F)	Visibility (miles)	Wind Speed (knots)	Wind Direction	Precipitation Amount (in)	Precipitation Type	Comment	
82.4	6	6.0	SE			Cloudy	
Wave Height (ft)	Wave Direction (°)	Swell Height (ft)	Current Speed (knots)	Current Sub Surf Spd (k...	Heave (ft)	Pitch (°)	Roll (°)
		2.62					
Vessel Heading (°)	Vessel Offset (ft)		Vessel Offset Direction (°)			Riser Tension (kips)	

Anchors		
Des	Tension (kips)	Tension Max (kips)

Transportation Information				
Vessel Type	Vessel Name	Arrival Date	Depart Date	Note
Helicopter	Helicopter	6/21/2020	6/21/2020	No flight.
Supply Boat	JM Cekal	6/21/2020	6/21/2020	On location.
Supply Boat	Surf Perdana	6/21/2020	6/21/2020	At KSB.

BHA Information									
BHA # 4 : Rotary Steerable									
Bit No.	Drill Bit	Make	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hr)	Comment		
3	8 1/2in, MME55, 12975519	HDBS	5,502.4	5,525.0	22.60	0.73			
Bit Total Fluid Area (in²)	Nozzles (1/32")	String Length (ft)	BHA ROP (ft/hr)	Max Flow Rate (gpm)	Max RPM (rpm)	WOB Max (1000lbf)	SPP Max (psi)		
0.84	15/15/15/15/14	9,209.00	31.0	390	80	8	1,770.0		

Drilling Parameters											
Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Circ Time (hr)	Cum Circ Time...	Rot Time (hr)	Sliding Time (hr)	Cum Drill Time...	
6/21/2020 18:56	6/21/2020 19:30	5,502.4	5,512.4	10.00	0.43	1.33	1.33	0.43	0.00	0.43	
WOB (1000lbf)	RPM (rpm)	Flow Rate (gpm)	SPP (psi)	ROP Instantaneo...	Drill Str Wt (1000l...	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque	Torque Units	
8	60	350	1,470.0								
Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Circ Time (hr)	Cum Circ Time...	Rot Time (hr)	Sliding Time (hr)	Cum Drill Time...	
6/21/2020 23:30	6/22/2020 00:00	5,512.4	5,525.0	22.60	0.30	1.31	2.64	0.30	0.00	0.73	
WOB (1000lbf)	RPM (rpm)	Flow Rate (gpm)	SPP (psi)	ROP Instantaneo...	Drill Str Wt (1000l...	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque	Torque Units	
4	80	390	1,770.0	50				6.0	5.0	kft-lbs	

Directional			
Motor RPM (rpm)	TFO (°)	TFO Ref	dP (SPP) (psi)

Drill String Components						
Item Des	Jts	Len (ft)	Cum Len (ft)	OD (in)	ID (in)	SN
5 1/2" Drill Pipe	1	5,184.63	9,209.00	5 1/2	4.778	RIG
9 5/8" DrillRdillo Casing Scraper (DRD)	1	13.13	4,024.37	7	2 1/4	OWS-WCT-DRD-1835
5 1/2" Drill Pipe	12	376.44	4,011.24	5 1/2	4.778	RIG
XO Sub	1	3.18	3,634.80	7	2 1/2	BKS17170-1401
4" XT-39 Drill Pipe	96	3,032.37	3,631.62	4	3.34	RIG
XO Sub	1	3.20	599.25	7	2 1/2	BKS17170-1501
4 x 5 1/2" HWDP	4	121.55	596.05	5 1/2	3 1/4	RIG
7 Accelerator	1	31.65	474.50	7	2 3/4	88635G
5 1/2" HWDP	1	91.13	442.85	5 1/2	3 1/4	RIG
7 Drilling Jar	1	30.95	351.72	7	2 3/4	37478G
5 1/2" HWDP	4	120.99	320.77	5 1/2	3 1/4	RIG
XO Sub	1	3.23	199.78	7	3	BKS17170-0102
6-3/4" Float Sub (Non Ported Plunger)	1	2.25	196.55	6 3/4	2.81	11479449
6 3/4 Screen Sub	1	6.17	194.30	6.76	2 7/8	13395476
8 1/8 String Stabilizer	1	5.55	188.13	6.8	2.81	11414374
6 3/4 Jet Pulser	1	14.88	182.58	6 3/4	1.92	KM90614164
6-3/4" Earth Star RCVR (VDR RX)	1	18.83	167.70	6 3/4	1.92	KM90614174
8-3/8" Inline Stabilizer	1	2.09	148.87	6 3/4	1.92	CP2351337
6-3/4" EarthStar Spacer	1	14.88	146.78	6 3/4	1.92	KM90614176
6-3/4" Earth Star RCVR (VDR RX)	1	18.87	131.90	6 3/4	1.92	KM90614172
8 13/32 Inline Stabilizer (ILS)	1	2.20	113.03	6 3/4	1.92	CP2340875
6-3/4" Earth Star XMTR (VDR TX)	1	19.07	110.83	6 3/4	1.92	KM90614170
8 13/32 Inline Stabilizer (ILS)	1	1.95	91.76	6 3/4	1.92	CP2321263
6 3/4 Nuke Collar (CTN+ALD)	1	29.92	89.81	6 3/4	1.92	KM90612026
6-3/4 RLL Collar (DGR+ADR)	1	27.73	59.89	6 3/4	1.9048	KM90614166



## Offshore Daily Operations Report

BZA-3(F)

VELESTO DRILLING SDN BHD NAGA 8

Well Name: BUNGA ZETUNG A-3 (F)  
 Job Category: Drilling : Drilling  
 Target Depth: 9,360.0  
 Current Depth: 5,525.0 MD : 3,970.8 TVD

Report Start Date: 6/21/2020  
 Report No: 12.0  
 Cum Days on Job: 10.85

Drill String Components							
Item Des	Jts	Len (ft)	Cum Len (ft)	OD (in)	ID (in)	SN	
8 13/32 Inline Stabilizer (ILS)	1	2.02	32.16	6 3/4	1.92	12532715	
6 3/4" PM Collar (Directional)	1	9.07	30.14	6 3/4	3 1/4	KM90614178	
Geo-Pilot 7600 EDL	1	20.17	21.07	7 5/8	1.4898	GP850TL137	

Drill Bits									
Size (in)	Make	Model	SN	Dull Out	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)
8 1/2	HDBS	MME55	12975519	-----	5,502.4	5,525.0	22.60	0.73	31.0

Deviation Information								
MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	
5,525.00	78.00	17.91	3,970.76	1,450.33	2,590.43	1,450.33	0.58	

Casing Information							
Run Date	Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)	Set Depth (TVD) (ftKB)
7/28/2019	COND1	20	129.30	X-56	103.5	565.0	564.8
8/3/2019	SURF	13 3/8	68.00	L-80	92.0	1,851.4	1,783.9
6/18/2020	INT1	9 5/8	47.00	L-80	88.5	5,489.2	3,963.3

Leak Off and Formation Integrity Tests								
Formation Integrity, 6/21/2020 21:30								
Last Casing String Run INT1, 5,489.2ftKB	Test Type Formation Integrity	P LeakOff (psi) 2,895.7	LOT or FIT E... 14.06	P Surf Applied... 528.0	Depth (ftKB) 5,489.2	Dens Fluid (lb/... 11.50	Leak off? No	Comment Achieved FIT target of 14.0 ppg.

Casing Pressure Tests											
30.00, 4,000.0psi											
Item Tested INT1, 5,489.2ftKB	Date 6/19/2020 23:30	Fluid Type Mud	Density (lb/... 11.5	Time (min) 30.00	Pressure (psi) 4,000.0	Fluid Bled Type Mud	Vol Bled (bbl) 4.80	Failed? No	Vol Pum... 4.8	Vol Lost (... 0	
Comment Pressure tested 9-5/8" casing to 4000 psi.											

BOP Pressure Tests						
Item Tested NOV, 8/1/2019 09:00, V	Date 6/20/2020 10:30	Next Test Date 7/11/2020 10:30	Fluid Density (lb/gal) 11.5	Volume Pumped (bbl) 0.9	Volume Lost (bbl) 0	
Comment Pressure tested BOP to 5000 psi.						

Equipment Pressure Test Data							
Time (min)	P (psi)	P Annulus (psi)	Orifice Sz (in)	Fluid Bled Type	Vol Bled (bbl)	Rate Bled (ft/hr)	Circ Pos

Tubing Strings							
Des	OD Nom Max (in)	Wt (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Com

Perforations							
Type	String Perforated	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Shot Dens (shots/ft)	Com

Daily Contacts			
Contact Name	Title	Office	Email
Ahmad Zahir Mahmud	DSV Lead	+603 2788 7338	dsvleadnmb@hess.com
Khairul Affendi Md Latip	Drilling Supervisor	+603 2788 7343	dsvnmb@hess.com
Denishlee Munisamy	Drilling Supervisor	+603 2788 7343	dsvnmb@hess.com
Mohd Farid Ahmad Tharmitzi	Rig Support Engineer	+603 2788 7348	rsenmb@hess.com
Gilbert Joseph	Offshore DMC	+603 2788 7347	dmcoffshorenmb@hess.com
Ravichandran Sathrugnan	Safety Coach	+603 2788 7348	ehsoffshorenmb@hess.com
Ahmad Hafizudin bin Mohd	EHS Offshore	+603 2788 7348	ehsoffshorenmb@hess.com
John Fabian	Drilling Fluid Advisor	+603 2788 7347	HessDFS@onyx-ies.com
Mohd Fazly Manan	Well Services Supervisor	+601 7288 6621	wss.nmb@hess.com
Vun Boon Onn	Wellsite Geologist	+603 2788 7348	wsgnmb@hess.com
Mathew Longthorpe	Wellsite Geologist	+603 2788 7348	wsgnmb@hess.com
Mazreemi Eksan	DPIC	+603 2788 7348	MEksan@hess.com

Personnel On Site		
Head Count	Pers Tot Hrs (hr)	Cum Pers Tot Hr (hr)
125.0	1,500.00	19,224.00



# Offshore Daily Operations Report

BZA-3(F)

## VELESTO DRILLING SDN BHD NAGA 8

Well Name: BUNGA ZETUNG A-3 (F)  
Job Category: Drilling : Drilling  
Target Depth: 9,360.0  
Current Depth: 5,525.0 MD : 3,970.8 TVD

Report Start Date: 6/21/2020  
Report No: 12.0  
Cum Days on Job: 10.85

Personnel On Site			
Vendor	Type	Count	Note
HESS	Operator	12	LDSV (1), DSV (2), RSE (1), ODMC (1), Safety Coach (2), Mud Engineer (1), CSV (1), DPIC (1), WSG (2).
VELESTO DRILLING SDN BHD	Contractor	20	Velesto Rig Crews (20)
BOSH	Contractor	1	Medic (1)
IMAN OFFSHORE	Service	3	Scaffolders (3)
BAYONG RESOURCES	Contractor	38	Rig Crews (34), Extra Roustabout (4)
BAYONG RESOURCES	Contractor	13	Catering Crews (13)
FMC TECHNOLOGIES COMPLETION	Service	2	Wellhead Engineer (2)
SPERRY - HALLIBURTON	Service	7	DD (2), MWD (5)
VALSER	Service	2	PDG Technician (2)
BAKER HUGHES OILFIELD OPERATIONS, INC	Service	1	Mud Engineer (1)
HALLIBURTON ENERGY SERVICES, INC	Service	3	Cementer (3)
GEOSERVICES - SCHLUMBERGER	Service	6	Data Eng (2), Mud Logger (2), Sample Catcher (2)
BAKER HUGHES OILFIELD OPERATIONS, INC	Service	6	FES (6)
SGS	Service	2	Tracer (2)
WEATHERFORD	Service	6	Technician (6)
EXPRO	Service	2	Well Test (2)
ODFJELL WELL SERVICES	Service	1	WBCU Supervisor

Bulks/Consumables Information						
Bulk Type	Unit Label	Received	Consumed	Returned	Cum On Loc	Note
Barite Fine	tonnes	0.0	33.0	0.0	134.0	Bunga Zetung
Base Oil	bbl	0.0	108.4	0.0	424.6	Bunga Zetung
Cement G	tonnes	0.0	0.0	0.0	39.0	Slag cement.
Fuel (Diesel)	m³	0.0	10.3	0.0	217.5	Bunga Zetung
Kcl Brine	bbl	0.0	0.0	0.0	531.0	Bunga Zetung
Synthetic Base Mud	bbl	66.29	0.0	0.0	2,454.8	11.4 ppg OMNI Flow DIF
Water (Drilling)	m³	0.0	21.0	0.0	243.0	Bunga Zetung
Water (Potable)	m³	30.0	22.0	0.0	250.0	Rig water maker accounts for received.