



Daily Operations Report

Report No.: 13.0

Date: 6/23/2020

DFS: 11.81

DOL: 13.00

Planned DOW: 29.50

Well Name: RT-P1

Wellbore Name: Sidetrack 1

Spud Date 4/25/2020 04:30	Depth Progress (m) 0.00	Current Depth (mKB) 2,009.00	Current Depth (TVD) (...) 2,008.80	Authorized MD (mKB) 2,009.00	Water Depth (m) 1,189.00	Orig KB Elev (m) 24.00	KB-MudLn (m) 1,213.00
PTTEP Field Name Rotan		Block H	Country Malaysia	State/Province Sabah	District Malaysia	Latitude (°) 7° 21' 3.323" N	Longitude (°) 115° 51' 44.974" E
Contractor Seadrill Ltd		Rig Name/No West Carina		Rig Phone/Fax Number +603 7490 7577		BHA Hrs of Service (hr) 0.00	
Leak Off Equivalent Fluid Density (lb/gal) 10.60		Last Casing String Intermediate, 1,970.30mKB		Next Casing String			

Last Survey

Wellbore Name Sidetrack 1	Measured Depth (mKB) 2,009.00	TVD (mKB) 2,008.80	Inclination (°) 0.76	Azimuth (°) 163.52
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Team Leader, Supervisor, & Engineers

Title	Job Contact
Manager, Drilling Project (Development)	Adrian Young
Manager, Completion and Intervention	Kasim Selamat
Intervention Engineer	Intiran Raman
Drilling Supervisor	Scott Caldwell
Drilling Supervisor	Cole Lucky
Completion Supervisor	Malcolm Martin
Completion Supervisor	Indhran Sinnathamby

AFE & Field Estimated Cost

WBS/AFE Number 401-00157.01.01.01 / 401.00129.03.03	Total WBS/AFE Amount (Cost) 30,173,144.37	Supp Amt (Cost)	Total WBS/AFE + Supp Amount (Cost) 30,173,144.37
Permit #/Well License #	Daily Cost (Cost) 2,195,780.70	Cum Daily Cost (Cost) 11,175,731.33	Daily Mud (Cost) 1,328,072.96
		Cum Daily Mud (Cost) 2,529,049.96	

Safety

Days Since Lost Time Incident (days) 164.00	Days Since Reportable Incident (days) 164.00	
Type	Last Date	Next Date
BOP Function Test	6/23/2020	6/30/2020
BOP Pressure Test	6/18/2020	7/9/2020
Safety Drill	6/23/2020	6/30/2020
Safety Meeting	6/21/2020	6/28/2020

Observation Card Summary

PE/Stop Type	Count
STAR Observation Cards	194
Tool Box Risk Assessment (TBRA)	18
Permit to Work	18

Safety Comments

Comment
No Accidents / No Incidents / No Pollution / No First Aid Cases / No Near Misses
Days since Last Drop: 74 day Days since First Aid Cases: 107 days
STAR Observation Card Summary: Positive – 158; TOFS – 6; Unsafe Act – 19; Unsafe Condition – 17; Near Misses - 0.
Pre-Tour Safety Topic: Stay Focused on operations. If in doubt, stop and re-asses. Don't take any short cuts and double check all procedures are being followed.

Comment
COVID-19 Issues :
- From June 1, 2020, expatriates will be required to obtain a letter of undertaking for the QT hotel prior to traveling to Malaysia
- Labuan Point hotel excess rooms have been released as per PETRONAS instructions
- PETRONAS met with authorities and Labuan restrictions have eased
- Expatriates still need 14 days quarantine for those flying by chopper as per ministry of transport directive
- Received letter of support from MPM for technical employees from PTTEP, EP Engineering, NUV Engineering
- EXPRO and other service companies without valid work permits were not supporting
- Discussion with MPM drilling on expatriate movements held on the 19th of June
- Immigration authorities have allowed category 1 visas and talent residence visa holders into the country without pre-approval
- Minister of Health considering travel bubbles with Japan, South Korea, New Zealand, Australia, Singapore and Brunei subject to mutual and reciprocal agreements
- COVID-19 drilling costs being finalized for end of campaign



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Operations Summary

Operations Summary

*****This report continues from RT-P2 Daily Operations Report No. 25 Date 22 June 2020*****

Move from RT-P2 to RT-P1, Install HXT on RT-P1 well head, Run riser.

24 Hr Forecast

Position rig over HXT, latch BOP, confirm with 50K overpull, Test connector to 1,400psi, R/D riser handling equipment, Slip and cut drill line, M/U RTTS mandrel and TIH, Displace riser to 10.2ppg brine, Engage RTTS, confirm pressures, Test annular, Unseat packer and POOH with RTTS and tail pipe, Perform WBCO.

Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
00:00	05:00	5.00	Production, Run Comp	WELLHEAD	WHDNU	U	*****This report continues from RT-P2 Daily Operations Report No. 25 Date 22 June 2020***** Land HXT on RT-P1 well head. - Run and land HXT with Crane #2 - Port Fwd - Land HXT at 02:30 (ROV heading 164 degrees, HXT heading 344 degrees) - Manipulate valves on tree for latching HXT - Latch tree - Test HXT to 5,000psi for 15 minutes - Good Test Offline: - P/U slip joint - P/U landing joint
05:00	10:00	5.00	Production, Run Comp	BOPE	BOPND	P	Run BOP on RT-P1. - Engage HFGN - Test choke, kill, and boost line to 500/5,000psi 5/15 minutes - Move rig into position 10m from well head and perform dummy landing, set up CMC-E/Tensioner weight, HKL-1709K heading 090 degrees - Position rig over HXT tree land BOP on XMT with 50k down and confirm latch. Perform 50k over pull on both pods and go back to neutral - Perform connector/casing test to 1400psi 15 mins against UBSR - Transfer weight to tensioners and open slip joint, set inner barrel in spider, lay out landing joint - Remove RRT and Install diverter inserts and pick up diverter from RCWM and set in rotary - Make up diverter, install and function test
10:00	12:00	2.00	Production, Run Comp	BOPE	BOPNU	P	Rig down riser handling equip. - Hold PJSM w/ crew - P/U pad-eye sub & slings - L/O spider - L/O gimble - Install rotary bushings
12:00	16:30	4.50	Production, Run Comp	RIGOP	RIGCNS	P	Prep to pressure test / slip & cut. - M/U pump in sub - Connect mud hose - Connect test hose - Hang off TDX - Slip & cut drill line cable - Cut 8 wraps / 123ft - Carry out DROPS inspection on TDS In parallel: - Pressure test upper / lower auto & manual IBOPs with 300psi/5mins to 5000psi/5mins. - Replace dueblin wash pipe seals & pressure test kelly hose with 300psi/5mins to 5000psi/5mins - Un-hang TDX - Calibrate DW position sensors - B/O test hose - B/O pump in sub



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Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
16:30	17:30	1.00	Production, Run Comp	TIH		P	R/U to handle drill pipe. <ul style="list-style-type: none">- Install 16ft 500t bails- Install BX-4 elevators- Install 5 7/8" inserts- Install HT tracks- Clean / clear rig floor
17:30	21:30	4.00	Production, Run Comp	DIS		P	RIH with RTTS retrieval assembly. <ul style="list-style-type: none">- TIH from surface to 1179m with RTTS mandrel on 5-7/8" DP- L/O single- Open / balance CMC- Pass BOP / WH slowly- P/U single- Function test BOP's from driller panel on yellow pod- Function test BOP's from Toolpushers panel on blue pod- Continue to TIH from 1179m to 1306m Concurrently: <ul style="list-style-type: none">- Displace choke/kill and boost line with 10.2ppg brine while TIH
21:30	23:00	1.50	Production, Run Comp	PKR		P	Displace well to 10.2ppg NaBr/NaCl brine. <ul style="list-style-type: none">- Tag RTTS at 1307m with 3k down- P/U to 1306.7m- Pump 60 HEC pill followed by 10.2ppg brine- Pump with 200gpm at 45 psi.- Boost riser at 1000gpm with 670psi
23:00	23:30	0.50	Production, Run Comp	PKR		P	Prep / engage RTTS. <ul style="list-style-type: none">- Check weights- Up = 263k- Down = 262k- Rotating = 262k- Set torque limit to 3k- RIH & tag RTTS w/ 5k down- Engage w/ 21.5 turns / 3k torque stall- Confirm no pressure under RTTS
23:30	00:00	0.50	Production, Run Comp			P	Pressure test lower annular. <ul style="list-style-type: none">- Align cement unit to kill line- Close lower annular w/ 82.9gal- Pressure test with 300psi/5mins to 3500psi/5mins

Time Log Total Hours (hr)

24.00

Offline Activity Dates

Description	Start Date	End Date
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Operations at Report Time

Operations Summary

Operations Next Report Period

Offline Activity Time Logs

Start Time	End Time	Dur (hr)	Activity	Sub Activity	Wellbore	Operation
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00:00 - 06:00 Update

Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
00:00	00:30	0.50	Production, Run Comp			P	Pressure Test Lower Annular <ul style="list-style-type: none">- Bleed off pressure- Open annular



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00:00 - 06:00 Update

Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
00:30	01:00	0.50	Production, Run Comp	PKR		P	Retrieve RTTS from 1,307m MD. - P/up to confirm total weight of 310K free weight (string plus tail pipe) - Relax packer and flow check for 15 minutes
01:00	03:30	2.50	Production, Run Comp	CC		P	Reverse out Suspension Fluid. - Close annular - Reverse suspension fluid from under RTTS - Limit pressure to below 1500 psi
03:30	06:00	2.50	Production, Run Comp	TOH		P	POOH with RTTS. - L/out RTTS @ Report time

Mud Data

Mud Base Type	Density (lb/gal)	ECD - Manual Entry (l...)	Electric Stab (V)	Funnel Viscosity (s/qt)	PV Override (cP)	YP Override (lb/100ft ²)	Solids (%)
Brine	10.20						
Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Filtrate (mL/30min)	HTHP WL (mL/30min)	Filter Cake (1/32")	H2O (%)	Oil (%)	Oil Water Ratio
Sand (%)	LGS (%)	LGS by Weight (lb/bbl)	Avg SG of Solids (sg/h...)	Chlorides (mg/L)	Calcium (mg/L)	Max H2S (ppm)	KCl (lb/bbl)

Remarks

- Received chemicals and brine from previous well RT-P2
- Charged off all batches of Brine received from LMP and MEG/Water (90/10) prepared
- Filter brine recovered from well in pits 10,9,8,7,6. Will be reused as riser displacement brine in RT-P1
- Prepared filtered new NaBr/NaCl brine in Pits 1,2,3,11&12 for RT-P1 wellbore clean up displacement
- Prepared HEC pill for Riser displacement
- Received 2020 bbl 10.6 ppg NaBr/NaCl brine from SK.Atlantik
- Displaced well to 10.2 ppg NaBr/NaCl Brine. Discarded Hi-Vis/Seawater interface
- Observed HEC/DIF interface from above RTTS packer
- Reversed out suspension fluid under RTTS packer. Observed HEC/DIF interface during reverse out
- Dumped interface overboard and clean flowline and shakers offline

Fann Data

Vis 3rpm	Vis 6rpm	Vis 100rpm	Vis 200rpm	Vis 300rpm	Vis 600rpm

Pump / Hydraulics

Pump #	Make	Model	Stroke (in)	Liner Size (in)
1	National Oilwell Varco (NOV)	14-P-220	14.00	6 1/2
2	National Oilwell Varco (NOV)	14-P-220	14.00	6 1/2
3	National Oilwell Varco (NOV)	14-P-220	14.00	6 1/2
4	National Oilwell Varco (NOV)	14-P-220	14.00	6 1/2
Pump #	Eff (%)	P (psi)	Strokes (spm)	Q Flow (gpm)

Bits

Bit Run	Size (in)	Make	Model	SN	Nozzles (1/32")	Depth In (mKB)	Date In	Bit Dull

BHA #<stringno>, <des>

Date In							Date Out			String Length (m)			Max Nominal OD (in)		
End Depth (mKB)		String Weight Up (1000lbf)		String Wt Down (1000lbf)		String Wt Rot (1000lbf)		Drag (1000lbf)		Torque On Bottom		Torque Off Bottom			

Assembly Components

Component Type	# of Jts	Len (m)	OD (in)	ID (in)	Connections	Mass/Len (lb/ft)	Cum Wt (1000lbf)	Com

Surveys

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)

Personnel

Vendor	Vendor Note	Count
PTTEP	Operator	9
Aker Solutions	Tree	6
Halliburton	Baroid - Mud Engineer	2
Halliburton	Cementing	2
Reach Coach	Performance Coach	1
Selaut Oiltools	TRS	6



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Personnel		
Vendor	Vendor Note	Count
Oceaneering	ROV	6
Schlumberger	Completion	1
Expro	Welltest & Subsea	24
Coretrax	Wellbore Clean-out	1
Geoservices	NDT Inspection	1
Seadrill	Rig Contractor	48
Seadrill	Rig Subcontractor - Connect Energy	10
Seadrill	Rig Subcontractor - OVE	24
Seadrill	Rig Subcontractor - ISOS	1
Seadrill	Rig Subcontractor - Sodexo	15
Halliburton	Upper Completion	7
Schlumberger - Dowell	Nitrogen	3
Geowell	Slickline	5
Uzma	Filtration	4
Schlumberger - Wellog	E-Plug	1
Schlumberger - Wellog	Wireline	3
Halliburton	Tronic	1

Head Count
181.0

Material - Bulk

Product Name	Unit Label	Received	Consumed	Cum On Loc
Pacific Hawk Base Oil	bbl	0.0	0.0	0.0
Pacific Hawk Brine	bbl	0.0	0.0	0.0
Pacific Hawk Brine	bbl	0.0	0.0	0.0
Pacific Hawk Diesel	L	0.0	0.0	0.0
Pacific Hawk Potable Water	bbl	0.0	0.0	0.0
Pacific Hawk Surface Blend Cement	MT	0.0	0.0	0.0
Pacific Hornbill Base Oil	bbl	0.0	0.0	800.0
Pacific Hornbill Brine	bbl	0.0	0.0	0.0
Pacific Hornbill Diesel	L	0.0	9,128.0	107,109.0
Pacific Hornbill Potable Water	bbl	0.0	31.45	3,679.55
SK Atlantik Base Oil	bbl	0.0	0.0	25.0
SK Atlantik Bentonite	sacks	0.0	0.0	0.0
SK Atlantik Brine	bbl	0.0	0.0	1,954.0
SK Atlantik Diesel	L	0.0	12,971.0	332,775.0
SK Atlantik Drill Water	bbl	0.0	0.0	362.0
SK Atlantik MB-DIF	bbl	0.0	0.0	0.0
SK Atlantik MB-DIF	bbl	0.0	0.0	0.0
SK Atlantik Potable Water	bbl	0.0	31.45	332,584.84
West Carina Barite	sacks	0.0	0.0	829.76
West Carina Base Oil	bbl	0.0	0.0	1,113.0
West Carina Bentonite	sacks	0.0	0.0	0.0
West Carina Brine	bbl	2,023.0	0.0	3,753.0
West Carina Diesel	L	300,000.0	37,000.0	3,065,000.0
West Carina Drill Water	bbl	0.0	56.61	5,497.44
West Carina MB-DIF	bbl	0.0	0.0	0.0
West Carina Potable Water	bbl	408.84	446.58	6,057.6
West Carina Production Blend Cement	MT	0.0	0.0	113.8
West Carina Surface Blend Cement	MT	0.0	0.0	525.11

Weather

Time 00:00	Wind Speed (knots) 8.0	Wind Direction 135	Wave Height (m) 0.30	Swell Height (m) 0.30	Swell Direction (°) 135.00	Swell Period (s) 4.00
Current Speed (knots) 10.0	Current Direction (°) 135.00	Visibility (km) 12.9	Heave (m) 0.10	Pitch (°) 0.10	Roll (°) 0.10	Temperature - High (°C) 28.0
						Temperature - Low (°C) 27.0

Anchor Tension

Pos Type	Des	Tension (kips)	Dir

Support Vessels

Vessel Name	Vessel Type	Arrival Date	Note	Depart Date
Pacific Hawk	Supply Vessel		Onhire 19 February 2020 16:30 Hours Offhire 21 May 2020 12:00 Hours	
Sea Gull	Supply Vessel		Onhire 27 February 2020 18:00 Hours Offhire 13 April 2020 12:00 Hours	
Pacific Hornbill	Supply Vessel		Onhire 21 May 2020 16:00 Hours	
SK Atlantik	Supply Vessel	6/22/2020	Onhire 7 February 2020 00:00 hrs	6/21/2020



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Remarks

Remarks

Days on PTTEP Contract: 114.0 days (Rig on-hire 02 03 2020, 21:00 hrs)
Days on RT-P1: 13.0 days

Total AFE for Block H Campaign = \$129,480,424
Total Expenditure for West Carina Rig Mob Demob = \$10,807,688.94

Total Expenditure for RT-P1 = \$11,175,730.97
Total Drilling Expenditure for RT-P1 = \$5,316,634.80
Total Completion Expenditure for RT-P1 = \$5,859,096.17

Total Expenditure for RT-P2 = \$21,285,556.04
Total Drilling Expenditure for RT-P2 = \$8,439,293.57
Total Completion Expenditure for RT-P2 = \$12,846,262.47

Total Expenditure for RT-P3 = \$23,548,791.21
Total Drilling Expenditure for RT-P3 = \$8,438,388.78
Total Completion Expenditure for RT-P3 = \$15,110,402.55

Total Expenditure for BL-P1 = \$30,114,718.46
Total Drilling Expenditure for BL-P1 = \$12,271,647.00
Total Completion Expenditure for BL-P1 = \$17,843,071.46

Total Expenditure for Block H Phase 1A Campaign = \$96,932,485.62

Project WBS No

401-00129.03.03 Rotan Support Vessel (\$400,000.00)
401-00151.03.01 Buluh Support Vessel (\$400,000.00)

"MPM Status - GREEN"

Rig Position (Timbalai Datum):

Latitude: 07° 20' 59.550" N
Longitude: 115° 51' 55.380" E
Heading: 080.00° (True)

RKB – MSL: 24 m
Water Depth: 1,189.0 m
RKB - Mudline: 1,213.0m MD
RKB- 18 3/4" LPWHH: 1,210.53m MD
RKB - 18 3/4" HPWHH: 1,209.63m MD
RKB – 18 3/4" x 10 3/4" Casing Hanger: 1,211.17m MD
RKB – 18 3/4" x Lock Down Bushing: 1,210.50m MD

Vessel Movements:

SK Atlantik = At West Carina
Pasifik Hornbill = EnRoute To Labuan (ETA 24 06 2020 @ 07:00 Hours)