



# Daily Operations Report

Report No.: 14.0

Date: 6/24/2020

DFS: 12.81

DOL: 14.00

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) 859,459.96	Cum Daily Cost (Cost) 12,035,191.29	Daily Mud (Cost) 25,195.35
			Cum Daily Mud (Cost) 2,554,245.31

## Safety

Days Since Lost Time Incident (days) 165.00	Days Since Reportable Incident (days) 165.00	
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	189
Tool Box Risk Assessment (TBRA)	13
Permit to Work	13

## Safety Comments

Comment

No Accidents / No Incidents / No Pollution / No First Aid Cases / No Near Misses

Days since Last Drop: 75 day

Days since First Aid Cases: 108 days

STAR Observation Card Summary: Positive – 154; TOFS – 11; Unsafe Act – 19; Unsafe Condition – 16; Near Misses - 0.

Pre-Tour Safety Topic: Weather Conditions - Heavy rain at times - Ensure crews take time out when conditions change to re-assess worksite hazards and adjust as required to ensure a safe operation.

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

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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.

#### 24 Hr Forecast

POOH with tree bore protector, R/U and run upper completions on RT-P1.

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"><li>- Bleed off pressure</li><li>- Open annular</li><li>- 300/3500psi 5/5mins using NaBr.</li></ul>
00:30	01:00	0.50	Production, Run Comp	PKR		P	Retrieve RTTS from 1,307m MD. <ul style="list-style-type: none"><li>- P/up 15-20k to unseat packer</li><li>- Confirm total weight of 310K free weight (string plus tail pipe)</li><li>- Relax packer and flow check for 15 minutes</li><li>- Work packer up and down to confirm free movement (initial overpull 10k, work packer down then back with no overpull)</li></ul>
01:00	02:30	1.50	Production, Run Comp	CC		P	Reverse out Suspension Fluid. <ul style="list-style-type: none"><li>- Close annular</li><li>- Reverse suspension fluid from under RTTS</li><li>- Circulate at 200gpm/320psi</li><li>- Open BOP and flow check, well static</li></ul>
02:30	07:30	5.00	Production, Run Comp	TOH		P	POOH with 10-3/4" RTTS. <ul style="list-style-type: none"><li>- POOH with RTTS from 1307m (RTTS depth)</li><li>- Correct pipe displacement observed</li><li>- No issues with RTTS good condition</li><li>- Rack 5" tail pipe in AUX derrick</li></ul>
07:30	13:30	6.00	Production, Run Comp	CLNOUT		P	TIH with WBCO tools. <ul style="list-style-type: none"><li>- R/Up Franks equipment</li><li>- M/Up bull nose and 2 7/8" wash pipe</li><li>- M/Up no go locator</li><li>- M/Up 10 3/4" scraper assembly (scraper, junk filter, magnet, brush)</li><li>- TIH from 68m to 683m with 4" drill pipe</li><li>- M/Up 8-1/4" PBL sub</li><li>- TIH from 683m to 772m with 5 7/8" drill pipe</li><li>- M/Up riser brush assembly (junk filter, magnet, brush)</li><li>- TIH from 772m to 1875m with 5 7/8" drill pipe</li></ul>
13:30	15:30	2.00	Production, Run Comp	CLNOUT		P	WBCO/Jet BOP. <ul style="list-style-type: none"><li>- Drop 2 1/2" opening ball &amp; chase w/ 400gpm/550psi</li><li>- Observe opening w/ reduction to 250psi</li><li>- Jet BOP / WH 3 x at 400gpm/250psi</li><li>- Position PBL below WH</li><li>- Circulate at 500gpm/250psi</li><li>- Boost riser w/ 500gpm/300psi</li><li>- Displace C/K &amp; boost lines to clean brine</li><li>- Drop 2 x 1 3/4" activation balls &amp; observe shear out at 3200psi</li></ul>
15:30	16:00	0.50	Production, Run Comp	CLNOUT		P	RIH / scrape packer setting area. <ul style="list-style-type: none"><li>- Work scrapers from 1865m to 1875m</li><li>- With 84gpm/36psi</li><li>- Scrape interval x 3</li></ul>



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Wellbore Name: Sidetrack 1

Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
16:00	19:30	3.50	Production, Run Comp	CLNOUT		P	RIH to tag scoop-head / displace well  - P/U single - Pump 70bbl HEC at 84gpm/30psi while RIH to tag no-go w/ 5 k down at 1921.3m - Increase flow to 420gpm/650psi - Displace string w/ 150bbl 10.2ppg clean brine at 420gpm/900psi - P/U to 1890m - Pump 100bbl soap at 400gpm/500psi - Pump 70bbl HEC at 400gpm/500psi - Displace w/ 10.2ppg clean brine at 400gpm/500psi - Boost riser at 500gpm/330psi
19:30	20:00	0.50	Production, Run Comp	CLNOUT		P	RIH to tag no-go & spot MEG.  - RIH / tag no-go at 1921.3m w/ 5k down (No fill) - Pump 12 bbl 10.4ppg MEG at 120gpm/40psi - Displace string w/ 137bbl 10.2ppg brine at 400gpm/650psi - Flow check 15mins (well static) - Break / lay out single  NTU = 45 TSS = Trace
20:00	00:00	4.00	Production, Run Comp	TOH		P	POOH with WBCO tools.  - From 1915m to 813m - B/O riser brush assy: - L/O single to RCWM - Remove PS-15s - Pull assy above rotary / clean magnets (1.2kg) - Install manual bushings - B/O & rack back assy - POOH 2 stands - B/O PBL assy - POOH from 813m to 683m - Change elev inserts to 4" - POOH from 683m to 30m - 4" DP stands / rack at AW - Clean 10 3/4" magnet (3.5kg) - Open / clean 10 3/4" junk filter (5%) - Change elev. inserts to 5 1/2" - M/U zip bails & manual elevs - M/U Schlumberger lift sub - Rig up Frank's hyd. tong  Material recovered: Riser junk filter = 10% Riser magnet = 1.2kg 10 3/4" junk filter = 5% 10 3/4" magnet = 3.5kg

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	02:00	2.00	Production, Run Comp	TOH		P	POOH with WBCO tools.  - L/O 2 7/8" tubing - R/D Franks handling equipment - R/U to handle drill pipe



PTTEP

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## 00:00 - 06:00 Update

Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
02:00	04:30	2.50	Production, Run Comp	TIH		P	Recover HXT bore Protector.  - P/U MRT stand racked in derrick - RIH from surface to 40m - P/U single from RCWM - Install PS-15 slips - RIH from 40m to 1175m - Connect TDX - Open / balance CMC - Jet BP w/ 600gpm/270psi (3 passes) - Land MRT in BP at 1206m w/ 20k down - Check index 1207.60m - OP to 30k - Pressurize backside thru IWOCs to 2267psi - Pull BP from 1206m while jetting tree at 600gpm/270psi
04:30	06:00	1.50	Production, Run Comp	TOH		P	Recover HXT bore protector.  - POOH from 1206m to 3:00 am @ Report time

## Mud Data

Mud Base Type Brine	Density (lb/gal) 10.20	ECD - Manual Entry (l...	Electric Stab (V)	Funnel Viscosity (s/qt)	PV Override (cP)	YP Override (lb/100ft <sup>2</sup> )	Solids (%)
Gel 10 sec (lb/100ft <sup>2</sup> )	Gel 10 min (lb/100ft <sup>2</sup> )	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

- Prepare WBCU pills as per program
- Backloaded 9 mini containers of MT IBCs and trash
- Jet BOP's and discard contaminated brine
- Diverted brine from Riser during wellbore clean up into Pit 2/6/7/8/9
- Pumped pill train as per program. When clean brine on surface, send returns back to Pit #10
- Sample brine out NTU 48 / TSS-traces amounts (Brine in NTU 10 / TSS 0%)
- Clean shakers and pits offline prior to start boosting riser

## Fann Data

Vis 3rpm	Vis 6rpm	Vis 100rpm	Vis 200rpm	Vis 300rpm	Vis 600rpm
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## 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 #&lt;stringno&gt;, &lt;des&gt;

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



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Personnel		
Vendor	Vendor Note	Count
Reach Coach	Performance Coach	1
Selaut Oiltools	TRS	6
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	5,060.0	102,049.0
Pacific Hornbill Potable Water	bbl	628.98	31.45	4,277.08
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	1,021.0
SK Atlantik Diesel	L	0.0	14,040.0	320,154.0
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	37.74	332,547.1
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	0.0	1,319.0	2,769.0
West Carina Diesel	L	0.0	37,000.0	3,028,000.0
West Carina Drill Water	bbl	0.0	113.12	5,384.32
West Carina MB-DIF	bbl	0.0	0.0	0.0
West Carina Potable Water	bbl	314.49	333.36	6,038.73
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) 9.0	Wind Direction 45	Wave Height (m) 0.30	Swell Height (m) 0.30	Swell Direction (°) 135.00	Swell Period (s) 4.00	
Current Speed (knots) 12.0	Current Direction (°) 45.00	Visibility (km) 11.3	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	



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### Support Vessels

Vessel Name	Vessel Type	Arrival Date	Note	Depart Date
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

### Remarks

#### Remarks

Days on PTTEP Contract: 115.0 days (Rig on-hire 02 03 2020, 21:00 hrs)

Days on RT-P1: 14.0 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 = \$12,035,190.93

Total Drilling Expenditure for RT-P1 = \$5,316,634.80

Total Completion Expenditure for RT-P1 = \$6,718,556.13

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 = \$97,791,945.58

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 = In Labuan