



Daily Operations Report

Report No.: 16.0

Date: 6/26/2020

DFS: 14.81

DOL: 16.00

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) 914,058.23	Cum Daily Cost (Cost) 13,913,885.08	Daily Mud (Cost) 15,953.75
		Cum Daily Mud (Cost) 2,607,390.35	

Safety

Days Since Lost Time Incident (days) 167.00	Days Since Reportable Incident (days) 167.00	
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)	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: 77 day

Days since First Aid Cases: 110 days

STAR Observation Card Summary: Positive – 161; TOFS – 6; Unsafe Act – 18; Unsafe Condition – 15; Near Misses - 0.

Pre-Tour Safety Topic :: Weather Conditions. As weather conditions change stop the job and re-assess new hazards. Ensure operation safe to continue.

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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Make terminations at chemical injection mandrel, TIH with 5 1/2" tubing, P/U TH and make terminations at TH, P/U THRT and TIH with 7" landing string.

24 Hr Forecast

TIH with 7" landing string, P/U upper and lower lubricator valves, P/U CTLF, and flow head, land, latch and test TH, perform inflow test.

Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
00:00	01:30	1.50	Production, Run Comp	TUBING	TBGRUN	P	TIH with upper completions assemblies from 367m to 668m. - 25 joints 5 1/2" 23# JFE Lion 13cr L80 tubing - Install flat pack clamps at each coupling - Total clamps used = 56
01:30	02:30	1.00	Production, Tubing Hanger	TUBING	TBGLND HGR	P	R/Up to handle TH. - Remove Franks RS 350 slips - Install manual bushings - Change elevator inserts to 7" - P/U TH from cradle & connect saver sub - M/D TH assy to string - R/D Franks casing tong - Reposition flat pack manipulator arm
02:30	04:00	1.50	Production, Tubing Hanger	TUBING	TBGLND HGR	P	TIH with Upper Completion from 668m to 672m. Assembly #7 (Tubing hanger assembly 367653.001) - Land tubing hanger on RCWM and install RT - Pick up inspect and make up to production string in rotary - String wt. = 56K - Position assembly as necessary to terminate control lines - Power down gauge - Assembly control # PDG-0160-L - ROC-006688 - Add:042 - Power on Check - Current = 7.78mA - Voltage = 44.72Vdc - Pressure = 1149.90psi - Temp = 7.60 degC - Power off Check - +Resistance = 1.443MOhm - -Resistance = OL - +Diode = OL - -Diode = OL
04:00	12:00	8.00	Production, Tubing Hanger	TUBING	TBGLND HGR	P	Test control lines on tubing hanger. - Perform tests, check continuity on TEC connection - M/Up Aker charging tool to TH, engage control line couplers - Flush HW540 through SV1, SV2, SPV1 and SPV2 and chemical injection ports - Cut & strip flat pack control lines as necessary - Terminate hydraulic lines to TH - Pressure test PDG line to 10 000psi - Integrity test on control line 7500psi/15mins - Lower CL @ 7500psi Return = 240ml. Full close = 2200psi - Upper CL @ 7500psi Return = 230ml Full close = 2000psi - Integrity test Upper & Lower balance line. 7500psi/15mins - Lower balance line @ 7500psi = 580ml - Upper balance line @ 7500psi = 530ml. - Remove charging tool - Pick up string and install c-plate, land off TH in rotary (string weight 56k)



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Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
12:00	16:30	4.50	Production, Tubing Hanger	TUBING	TBGLND HGR	P	M/Up Expro THRT& SSTT to TH. - R/Up 7" elevator to handle THRT & SSTT - P/Up THRT off RCWM - M/Up to TH - P/Up SSTT to vertical position - Carry out function test - M/Up SSTT to THRT - Function test THRT latch/unlatch - Verify 5,000psi on THRT is held while TIH - Verify 5,000psi on TH unlock is held while TIH - Verify 5,000psi on Upper TRSV Open is held while TIH - Verify 1,000psi on Upper TRSV Balance is held while TIH - Verify 5,000psi on Lower TRSSV Open is held while TIH - Verify 1,000psi on Lower TRSSV Balance is held while TIH
16:30	19:00	2.50	Production, Tubing Hanger	TUBING	TBGLND HGR	P	Function / pressure test THRT. - Un-latch THRT from TH & set in test stump - Function test - Reconnect THRT to TH - Pressure test control lines 5000psi/15mins
19:00	20:30	1.50	Production, Tubing Hanger	TUBING	TBGRUN	P	Prep / RIH SSTT / THRT assy. - Hold PJSM w/ crew - P/U assy from C-plate - RIH slowly from 696m to 726m - Secure control hoses & remove rigging - Remove 1 umbilical clamp - Install manual bushings & set slips - M/U STD #1 of LS - Remove manual bushings - Install Frank's RS-350slips - Position Frank's manipulator arm
20:30	00:00	3.50	Production, Tubing Hanger	TUBING	TBGRUN	P	TIH w/ SSTT / TH assy. - TIH on 7" landing string from 726m to 1322m - At a controlled speed of 4mins/std - With C/K lines vented to strip / TT - Install umbilical clamps every other connection

Time Log Total Hours (hr)

24.00

Offline Activity Dates

Description	Start Date	End Date
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

00:00 - 06:00 Update

Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
00:00	03:00	3.00	Production, Tubing Hanger	TUBING	TBGRUN	P	TIH w/ SSTT / TH assy. - TIH on 7" landing string from 1322m to 1838m - At a controlled speed of 4mins/std - With C/K lines vented to strip / TT - Install umbilical clamps every other connection - Total clamps = 49 - Double clamps = 1



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00:00 - 06:00 Update

Start Time	End Time	Dur (hr)	Phase	Activity	Sub Activity	Type	Operation
03:00	04:30	1.50	Production, Tubing Hanger	TUBING	TBGRUN	P	P/Up upper and lower lubricator assembly. - Space out with landing pup joints - Function test SSLV per Expro procedures - Flush SSLV chemical injection line with HW540 - Pressure test Upper Lubricator Valve - Open line 5000psi/5mins - Close line 6000psi/5mins - Pressure test Lower Lubricator Valve - Open line 5000psi/5mins - Close line 6000psi/5mins
04:30	06:00	1.50	Production, Tubing Hanger	TUBING	TBGRUN	P	P/Up CTLF and Surface Tree. - P/Up CTLF to rig floor latch into elevator - Install 6' bails - P/Up surface tree and landing joint assembly @ 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/100ft²)	Solids (%)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	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

- Backload 706 bbl 10.4 ppg NaBr/30% MEG to SK Atlantik
- Backload 1700 bbl 10.6 ppg NaBr/NaCl Brine to SK Atlantik
- Backload trash and chemicals to SK Atlantik

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 #<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	8
Aker Solutions	Tree	6
Halliburton	Baroid - Mud Engineer	2
Halliburton	Cementing	2
Reach Coach	Performance Coach	1
Selaut Oiltools	TRS	6
Oceaneering	ROV	6
Schlumberger	Completion	1
Expro	Welltest & Subsea	23



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Personnel		
Vendor	Vendor Note	Count
Uzma	Filtration	2
Seadrill	Rig Contractor	49
Seadrill	Rig Subcontractor - Connect Energy	13
Seadrill	Rig Subcontractor - OVE	30
Seadrill	Rig Subcontractor - ISOS	1
Seadrill	Rig Subcontractor - Sodexo	15
Halliburton	Upper Completion	7
Schlumberger - Dowell	Nitrogen	3
Geowell	Slickline	5
Schlumberger - Wellog	E-Plug	1
Schlumberger - Wellog	Wireline	3
Halliburton	Tronic	1

Head Count
185.0

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	9,135.0	637,914.0
Pacific Hornbill Potable Water	bbl	0.0	44.03	4,170.15
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	2,406.0	0.0	3,427.0
SK Atlantik Diesel	L	0.0	14,174.0	190,961.0
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	332,477.91
West Carina Barite	sacks	0.0	0.0	829.76
West Carina Base Oil	bbl	0.0	120.0	993.0
West Carina Bentonite	sacks	0.0	0.0	0.0
West Carina Brine	bbl	0.0	0.0	0.0
West Carina Diesel	L	100,000.0	38,000.0	3,049,000.0
West Carina Drill Water	bbl	0.0	6.29	5,252.23
West Carina MB-DIF	bbl	0.0	0.0	0.0
West Carina Potable Water	bbl	415.13	345.94	6,189.69
West Carina Production Blend Cement	MT	0.0	82.3	31.5
West Carina Surface Blend Cement	MT	0.0	0.0	525.11

Weather

Time 00:00	Wind Speed (knots) 9.0	Wind Direction 180	Wave Height (m) 0.30	Swell Height (m) 0.40	Swell Direction (°) 247.50	Swell Period (s) 4.00
Current Speed (knots) 9.0	Current Direction (°) 180.00	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	
SK Atlantik	Supply Vessel	6/22/2020	Onhire 7 February 2020 00:00 hrs	6/21/2020
Pacific Hornbill	Supply Vessel	6/26/2020	Onhire 21 May 2020 16:00 Hours	6/25/2020



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Remarks

Remarks

Days on PTTEP Contract: 117.0 days (Rig on-hire 02 03 2020, 21:00 hrs)
Days on RT-P1: 16.0 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 = \$13,913,884.72
Total Drilling Expenditure for RT-P1 = \$5,316,634.80
Total Completion Expenditure for RT-P1 = \$8,597,249.92

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 = \$99,670,639.37

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 = At West Carina