

TABU-B19

Report No: 20 Progress: 19.00

Reg Name:

Wellbore:

Rig Name: Sapura T-9

Phase: Drilling, Drill 8-1/2" Hole Section (216mm), Drill 8-1/2" Production Hole, Exclude: No

	Planned	Actual (Cum)
Days (original)	33.00	19.25
MD/TVD	3,158/	3,116/ 1,929
Cost (w/suppl)	13,700,000	4,583,155

ExxonMobil Exploration & Production Malaysia, Inc
Proprietary

Units: Mixed Currency: USD

Reference Datum: 32.07m - OTH - must be OTH!

Well Working Elev: 32.07 mKB1 - depths must match!

Rpt Period: 6/23/2020 00:00 to 6/24/2020 00:00

Well Information

Country Malaysia	Field Name Tabu	Operating Facility TABU_B	Slot/Conductor 27	Regulatory Well ID	
Territory/State	Lease 2008 PSC		Local Latitude (°) 5° 40' 33.443" N	Local Longitude (°) 104° 53' 50.564" E	Drilling Purpose Service
Original KB Elevation (m) 32.07	Ground Elevation (m) 0.00	Working Elevation 32.07 mKB1	Working-Ground Distanc... 32.07	Water Depth (m) 63.30	Spud Date 10/19/1995 00:00

Daily Operations Information

Rig / Unit (Names) Sapura T-9	Days From Spud (days) 86	Days Ahead/Behind	Daily Cost Total (Cost) 205,170	Cum Percent NPT (%) 3.25
Daily Personnel Count 136.0	Daily Personnel (hr) 3,264.00		Drill Time (hr) 1.07	

Activity at Report Time Wiper trip to bottom to simulate run lower completion. Depth: 3116 m.	Next Activity Wiper trip to TD to simulate lower completion run. Circulate and condition mud as per PST and PSA requirement. Pump OOH to casing shoe. Circulate hole clean inside casing shoe. POOH and R/B 8-1/2" drilling BHA.
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Performance Limiter Non-FDP Plateau Time	Mitigation Attempts/Results
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Average Background Gas 0.20	Average Connection Gas 0.00	Average Trip Gas 0.20	Average Drilling Gas 0.40	Formation Description 90 % claystone 10 % sandstone at 3116 m.
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Time Log (hr) 24.00	Last Casing String 9-5/8" 47 ppf L-80 VT HC at 1790.5 m.	Next Casing String	Last Mud Check Density (lb/gal) 10.30
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Time Log

Start Time	Elapsed Time (hr)	End MD (mKB1)	Category	Comments																																																																				
00:00	1.50	3,116.00	DRLG	<p>Drill and survey 8-1/2" production hole with 10.3 ppg NAF from 3097 m to section TD 3116 m (20 m below I-85 base).</p> <ul style="list-style-type: none">- 640 gpm, 3550 psi.- 150 rpm, Torque: 12 - 15 kft-lbs.- WOB: 10 - 18 klbs, Instantaneous ROP: 15-20 m/hr. Average ROP: 12.67 m/hr.- ECD: 11.72 - 11.89 ppg. Control ROP and backream 1 std for hole cleaning and reduce ECD.- P/U wt: 265 klbs, S/O wt: 150 klbs, Rot wt: 181 klbs. T&D FF: P/U 0.2, S/O 0.15.- Background gas: 0.3 - 0.4 %. Max gas 1.7 % at 3071 m.- Acoustic caliper: 8.69" - 8.81"- 1/4" PDC ribbons cutting structure. No signs of borehole instability. Average cutting weight: 10 - 30 kg/min.- MW out: 10.4 ppg. Run active centrifuge for solid control. <p>- Take survey 1 jt off bottom prior making connection.</p> <p>- Last survey at 3107.70 mMD, 1924.66 mTVDDF. Inclination: 58.89 deg. Azimuthal: 350.08 deg.</p> <p>- Compare to plan: 0.57 m above. 0.07 m left. 0.58 m center-to-center.</p> <p>Reservoir</p> <table><tr><td>- I-10 sand</td><td>1808 mMD</td><td>1427.1 mTVDDF</td><td>6.5 mTVD shallower</td></tr><tr><td>- I-25 sand</td><td>1982.4 mMD</td><td>1489.4 mTVDDF</td><td>8.3 mTVD shallower</td></tr><tr><td>- I-28 sand</td><td>2035 mMD</td><td>1509.1 mTVDDF</td><td>6.6 mTVD shallower</td></tr><tr><td>- I-30 sand</td><td>2120 mMD</td><td>1538.7 mTVDDF</td><td>9.7 mTVD shallower</td></tr><tr><td>- I-35 sand</td><td>2199.5 mMD</td><td>1567.3 mTVDDF</td><td>8.3 mTVD shallower</td></tr><tr><td>- I-45 sand</td><td>2392.6 mMD</td><td>1636.0 mTVDDF</td><td>0.2 mTVD deeper</td></tr><tr><td>- I-48/49 sand</td><td>2430.5 mMD</td><td>1649.7 mTVDDF</td><td>4.1 mTVD shallower</td></tr><tr><td>- I-62 sand</td><td>2710.7 mMD</td><td>1749.2 mTVDDF</td><td>8.6TVD shallower</td></tr><tr><td>- I-68 sand</td><td>2840 mMD</td><td>1797.4 mTVDDF</td><td>9.3 mTVD shallower</td></tr><tr><td>- I-70FS2 sand</td><td>2882.2 mMD</td><td>1815 mTVDDF</td><td>11.6 mTVD shallower</td></tr><tr><td>- I-70FS1 sand</td><td>2910.7 mMD</td><td>1827.4 mTVDDF</td><td>8.9 mTVD shallower</td></tr><tr><td>- I-80 sand</td><td>3001.1 mMD</td><td>1870 mTVDDF</td><td>25 mTVD shallower</td></tr><tr><td>- I-85 sand</td><td>3032.7 mMD</td><td>1886 mTVDDF</td><td>22.8 mTVD shallower</td></tr></table> <p>Coal:</p> <table><tr><td>- I-20 coal</td><td>1894 - 1897 mMD</td></tr><tr><td>- I-37 coal</td><td>2276 - 2279 mMD</td></tr><tr><td>- I-40 coal</td><td>2293 - 2295 mMD</td></tr><tr><td>- I-60FS4 coal</td><td>2583 - 2587 mMD</td></tr><tr><td>- I-60FS3 coal</td><td>2606 - 2608 mMD</td></tr><tr><td>- I-60FS1 coal</td><td>2660 - 2663 mMD</td></tr><tr><td>- Coal 1</td><td>2982 - 2984 mMD</td></tr><tr><td>- Coal 2</td><td>2992 - 2993 mMD</td></tr></table>	- I-10 sand	1808 mMD	1427.1 mTVDDF	6.5 mTVD shallower	- I-25 sand	1982.4 mMD	1489.4 mTVDDF	8.3 mTVD shallower	- I-28 sand	2035 mMD	1509.1 mTVDDF	6.6 mTVD shallower	- I-30 sand	2120 mMD	1538.7 mTVDDF	9.7 mTVD shallower	- I-35 sand	2199.5 mMD	1567.3 mTVDDF	8.3 mTVD shallower	- I-45 sand	2392.6 mMD	1636.0 mTVDDF	0.2 mTVD deeper	- I-48/49 sand	2430.5 mMD	1649.7 mTVDDF	4.1 mTVD shallower	- I-62 sand	2710.7 mMD	1749.2 mTVDDF	8.6TVD shallower	- I-68 sand	2840 mMD	1797.4 mTVDDF	9.3 mTVD shallower	- I-70FS2 sand	2882.2 mMD	1815 mTVDDF	11.6 mTVD shallower	- I-70FS1 sand	2910.7 mMD	1827.4 mTVDDF	8.9 mTVD shallower	- I-80 sand	3001.1 mMD	1870 mTVDDF	25 mTVD shallower	- I-85 sand	3032.7 mMD	1886 mTVDDF	22.8 mTVD shallower	- I-20 coal	1894 - 1897 mMD	- I-37 coal	2276 - 2279 mMD	- I-40 coal	2293 - 2295 mMD	- I-60FS4 coal	2583 - 2587 mMD	- I-60FS3 coal	2606 - 2608 mMD	- I-60FS1 coal	2660 - 2663 mMD	- Coal 1	2982 - 2984 mMD	- Coal 2	2992 - 2993 mMD
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01:30	3.50	3,116.00	CIRC	<p>Circulate hole clean while rotating and reciprocating string. R/B std every BU from 3116 m to 3000 m.</p> <ul style="list-style-type: none">- 640 gpm, 3500 psi.- 140 rpm, 14 - 15 kft-lbs torque.- P/U wt: 265 klbs, S/O wt: 150 klbs, Rot wt: 181 klbs.- Shakers clean after 4x BU.- Flowcheck well on trip tank for 15 mins - static.																																																																				

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Units: Mixed Currency: USD

Reference Datum: 32.07m - OTH - must be OTH!

Well Working Elev: 32.07 mKB1 - depths must match!

Rpt Period: 6/23/2020 00:00 to 6/24/2020 00:00

Time Log

Start Time	Elapsed Time (hr)	End MD (mKB1)	Category	Comments
05:00	0.50	3,116.00	TRIP	Wiper trip back down to bottom. - 1 - 2 klbs drag.
05:30	2.00	3,116.00	CIRC	- Wash down with 640 gpm, 3480 psi, 40 rpm, 10 - 11 kft-lbs torque and tag TD at 3116 m with 10 klbs, no fill. Perform 10-10-10 and circulate out. - 640 gpm, 3200 psi. - 40 rpm, 9 - 11 kft-lbs torque. - No trip gas observed. - Flowcheck well on trip tank for 15 mins - static.
07:30	9.50	3,116.00	TRIP	Backream OOH from 3116 m to inside casing shoe to 1725 m. - 640 gpm, 3100 psi. - 150 rpm, 12 - 13 kft-lbs torque. - P/U wt: 180 klbs, S/O wt: 140 klbs, Rot wt: 155 klbs. - Tight spot at 2405 m, work string 1 pass and pass through. - Ream 3x across VCA packer setting depth from 1735 m - 1695 m with 640 gpm, 3000 psi, 80 - 90 rpm, 9 - 10 kft-lbs. - Shakers clean.
17:00	0.50	3,116.00	CIRC	Circulate hole clean inside 9-5/8" casing shoe at 1725 m. - 640 gpm, 3000 psi.
17:30	3.00	3,116.00	RIG	Slip and cut 120 ft drill line. - Filter 10.3 ppg NAF in active pit with API 270 through choke and kill line. - Rig service and DROPS inspection on TDS. - Calibrate block height, rig smart, rig sense and EDS. - Monitor well on trip tank for 30 mins - static.
20:30	3.50	3,116.00	TRIP	Wiper trip down to simulate running lower completion from 1725 m to 3000 m. - 1-2 klbs drag when passing through shoe and 2 - 4 klbs drag in open hole. - Break circulation every 500 m with 165 gpm, 400 psi - good return. - P/U wt: 240 klbs, S/O wt: 145 klbs. - Well taking correct displacement.

Daily Offline Time Log Summary

Start Time	Dur (hr)	End Time	Category	Start Depth (TVD) (mKB1)	End Depth (mKB1)	Com

Drilling Parameters (Fast Drill)

Start MD (mKB1)	End MD (mKB1)	Hole Made (Int) (m)	Avg ROP (Int) (m/hr)	Drill Time (hr)	Total Circ Time (hr)	WOB (1000lbf)	Total RPM (rpm)	Circ Rate (gpm)	Standpipe Pres (psi)	Rotating HL (1000lbf)	Pickup HL (1000lbf)	Slackoff HL (1000lbf)	Drilling Torque
3,097.00	3,116.00	19.00	17.8	1.07	12.84	18	150	640	3,550.0	181	265	150	15,000.0

Management Summary

Management Summary

Tabu-B 19 ST1: Drill and survey 8-1/2" production hole section to section TD 3116 m. Circulate hole clean while R/B 5 stds. Short wiper trip back to bottom. Perform 10-10-10 and circulate out. Backream OOH to 9-5/8" casing shoe and ream across VCA packer setting depth. Circulate hole clean inside casing. Perform slip and cut 120 ft drill line. Wiper trip to bottom to simulate running lower completion. Depth: 3000 m.

Mud Checks

Source Pit	Date 6/23/2020 16:00	Fluid Type NAF	Fluid Category Low Toxicity Mineral Oil	MD (mKB1) 3,116	Density (lb/gal) 10.30	ECD (lb/gal)
Funnel Viscosity (s/qt) 63	FL Temp (°C)	Plastic Viscosity (cP) 34.0	Yield Point (lb/100ft²) 13	10-Sec Gel (lb/100ft²) 10	10-Min Gel (lb/100ft²) 19	30-Min Gel (lb/100ft²) 23
600 RPM Dial Reading 81	300 RPM Dial Reading 47	200 RPM Dial Reading 32	100 RPM Dial Reading 20	6 RPM Dial Reading 9	3 RPM Dial Reading 8	Visc Temp (°C) 48.9
API FL (mL/30min)	API FC (1/32")	HTHP FL (mL/30min) 3.6	HTHP FC (1/32") 2	HTHP Temperature (°C) 135.0	HTHP Pressure (psi) 500.0	BHST (°C)
Excess Lime (lb/bbl) 3.4	Ca++ (mg/L)	Chlorides (mg/L) 228,139	n (Calc) 0.26	K (Calc) 26.68	Wellbore TABU-B19ST1	
pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Potassium (mg/L)	MBT (lb/bbl)	Activity 0.68
Alkalinity (mL/mL) 2.5	WPS (ppm) 180,898	Electrical Stability (V) 705.0	Filter Size (µm)	Iron Content (mg/L)	NTU	TCT (°C)
Volume % Water (%) 16.0	Volume % Oil (%) 69.0	Oil/Water Ratio 81.2/18.8	Sand Content (%) 0.3	Volume % Solids (%) 15.0	LGS (%) 6.2	HGS (%) 6.8

Evaporation Volume Added (bbl)

Comments

Active Pit

Mud Volume Summary

Addition/Loss	Type	Subtype	Volume (bbl)
Addition	Additives		52.7

TABU-B19

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Well Working Elev: 32.07 mKB1 - depths must match!

Rpt Period: 6/23/2020 00:00 to 6/24/2020 00:00

Mud Volume Summary

Addition/Loss	Type	Subtype	Volume (bbl)
Loss	Surface		165.7
Active Volume (bbl)	Var Active Volume (bbl)	Balance (bbl)	Tank Volume (bbl)
3,145.0	752.0	865.0	2,549.6
Losses (bbl)	Cum Losses (bbl)	Additions - Losses (bbl)	Cum Additions (bbl)
165.7	1,732.4	-113.0	1,373.4
		Cum Additions - Losses (...)	Hole Volume (bbl)
		-359.0	595.4
			Var Hole Volume (bbl)
			-94.1

Mud Additive Amounts

Function	Description	Sales Unit Size	Sales Unit	Consumption	Cum Consumption
Alkalinity (pH)	LIME	1.0	25 SX	8.0	122.0

Daily Job Supply Summary

Type	Unit Sz	Unit Label	Consumed	Cum Consumed	Received	Cum Received	Returned	Cum Returned	On Loc
Barite	1	MT	0.0	10.0	0.0	310.0	0.0	152.0	148.0
Base Oil	1	bbl	0.0	596.0	0.0	817.0	0.0	817.0	-596.0
Bentonite	1	MT	0.0	0.0	0.0	20.0	0.0	20.0	0.0
Cement Blend	1	MT	0.0	39.0	0.0	213.0	0.0	144.0	30.0
Cement Neat	1	MT	0.0	7.0	0.0	105.0	0.0	0.0	98.0
Fuel - Diesel	1	bbl	125.0	1,526.0	0.0	8,731.0	0.0	4,344.0	2,861.0
Water - Fresh - Purchased	1	bbl	227.0	4,632.0	0.0	30,890.0	0.0	13,634.0	12,624.0
Non-Potable									
Water - Fresh - Purchased	1	bbl	300.0	4,589.0	201.0	11,579.0	0.0	3,676.0	3,314.0
Potable									

String No. 3

Drill String Name	String Number	Date In	Dt Lst Drlg Parm	MD In (mKB1)	MD Lst Drlg Par (mKB1)
8 1/2" Drilling BHA	3	6/20/2020 00:00	6/24/2020 00:00	1,791.50	3,116.00
Min WOB (1000lbf)	Min Total RPM (rpm)	Min Circ Rate (gpm)	Min SPP (psi)	Min Pickup HL (1000lbf)	Min Slackoff HL (1000lbf)
18	150	640	2,930.0	220	133
Max WOB (1000lbf)	Max Total RPM (rpm)	Max Circ Rate (gpm)	Max SPP (psi)	Max Pickup HL (1000lbf)	Max Slackoff HL (1000lbf)
22	150	660	3,550.0	265	150
					Max Rotate HL (1000lbf)
					181

Comments

String No. 3 - Bit Information

Bit	Bit And Run Number	Bit Type	Nozzles (1/32")	Total Bit TFA (in ²)
8 1/2in, Baker Hughes, TD505X, 5303488-RR1	B2R2	PDC		0.98
IADC Classification	Hole Made (Run) (m)	Hours Drl (Run) (hr)	ROP (m/hr)	IADC Dull Grade
	1,324.50	39.10	33.9	-----

String Components

Item Des	Nominal OD (in)	Nominal ID (in)	Nominal Weight (lb/ft)	Grade	Btm Conn Size (in)	Btm Conn Thread	Length (m)	Serial Number	Blade OD (in)	Cum Len to Bit (m)	Cum Vol Disp (bbl)	Cum Weight (1000lbf)
HWDP	5	3.13	19.50		4 1/2	GPDS50	46.35	Rig T-9		135.25	9.6	3
Accelerator	6 1/2	3.00			4 1/2	IF	9.13	478-65085		88.90	7.3	0
HWDP	5	2.75			4 1/2	GPDS50	9.29	Rig T-9		79.77	6.3	0
Drilling Jars - Hydraulic	6 1/2	3.00			4 1/2	IF	9.96	W-1190696-1		70.48	5.8	0
HWDP	5	2.75			4 1/2	GPDS50	36.85	Rig T-9		60.52	4.8	0
Float Sub	6 3/4	3.00			4 1/2	IF	0.50	OSS11-010696		23.67	2.7	0
Downhole Filter Sub	6 3/4	2.81			4 1/2	IF	1.72	15124889		23.17	2.7	0
Orientation Sub	6 3/4	2.81			4 1/2	IF	0.40			21.45	2.4	0
Gyro MWD Sub	6 3/4	2.28			6 3/4	T2 MOD	1.31			21.05	2.4	0
LWD - Density/Neutron					6 3/4	T2 MOD	2.77			19.74	2.2	0
Drill Collar - Non Mag	6 3/4	2.26			6 3/4	T2 MOD	2.06			16.97	2.2	0
	6 3/4	2.30			6 3/4	T2 MOD	3.03			14.91	2.0	0
	6 3/4	1.88			6 3/4	T2 MOD	3.19			11.88	1.6	0
Gyro MWD Sub	6 3/4	2.17			6 3/4	T2 MOD	5.16			8.69	1.2	0
Rotary Steerable Tool	7.0241	1.43			6 3/4	REG	3.18	15149783		3.53	0.5	0

Daily Drilling Parameters and Hydraulics - If hydraulics are blank, check "String Detail by Job - Hydr & AV" report for errors

Start MD (mKB1)	End MD (mKB1)	Avg ROP (Int) (m/hr)	Drill Time (hr)	Total Circ Time (hr)	WOB (1000lbf)	Total RPM (rpm)	Circ Rate (gpm)	Standpipe Pres (psi)	Rotating HL (1000lbf)	Pickup HL (1000lbf)	Slackoff HL (1000lbf)	Drilling Torque	HP/Area (hp/in ²)	Jet Vel (m/s)	Bit dP (psi)	% P @ bit (%)
3,097.00	3,116.00	17.8	1.07	12.84	18	150	640	3,550.0	181	265	150	15,000.0				

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Wellbore Information

Wellbore Name TABU-B19ST1	Purpose Geologic Sidetrack	Profile Type 3D Designer Well	Regulatory Name	Regulatory ID
Parent Wellbore TABU-B19	Starting MD (mKB1)	Job Drilling and Completion, 3/30/2020 00:00 - <dttmend>, <dttmstartplan>		
Actual Directional Survey TABU-B19 Actual Survey	Proposed Directional Survey Tabu-B19 ST1_Rev G.0 030620_Plan Listings	VS Azimuth (°) 310.18	VS EW Origin (m)	VS NS Origin (m)
Min Kick Off Depth (mKB1) 660.00	Method Whipstock			
Min Kick Off Depth (mKB1) 660.00	Method			

Wellbore (Hole) Sections

Start Date	End Date	Section	Diameter (in)	Actual Top MD (mKB1)	Bottom MD (mKB1)

Deviation Survey (Tie point) - TABU-B19 Actual Survey

Date 6/12/2020 00:00	Description TABU-B19 Actual Survey		Azimuth North Type Grid North	Job Drilling and Completion, 3/30/2020 00:00 - <dttmend>,<dttmstartplan>		
Tie-In MD (mKB1) 608.42	Tie-In Inclination (°) 57.63	Tie-In Azimuth (°) 159.53	Tie-In TVD (mKB1) 524.75	VS Tie In (m) -198.93	TieIn NS Offset... -247.42	TieIn EW Offset (m) 51.43
Declination (°) -0.04	Convergence (°) 0.01	Comments				

Survey Data - Shows all surveys entered during the report period

MD (mKB1)	Inclination (°)	Azimuth (°)	TVD (mKB1)	VS (m)	NS Offset (m)	EW Offset (m)	DLS (°/30m)
3,097.00	58.89	350.08	1,919.09	1,009.61	625.33	-793.38	0.57
3,116.00	58.89	350.08	1,928.91	1,022.09	641.35	-796.18	0.00

Casing Strings - Only shows information for the longest casing component in a string - for other components see casing detail report

Wellbore	Description	Nominal OD (in)	Nominal ID (in)	Nominal Weight (lb/ft)	Nominal Grade	Nom Top Conn	Length (m)	Leak Off Dens (lb/gal)	Top MD (mKB1)	Cut/Pull MD (mKB1)	Bottom MD (mKB1)
TABU-B19	Drive Pipe	26	24.500	202.50	L-80	BTC	191.00		0.00		191.00
TABU-B19	Surface Casing	13 3/8	12.615	54.50	K-55	BTC	1,173.00	11.67	0.00		1,173.00
TABU-B19	Production Casing	9 5/8	8.835	40.00	N-80	BTC	2,332.80		0.00	720.00	2,332.80
TABU-B19	Production Casing	9 5/8	8.681	47.00	N-80	BTC	605.20		2,332.80		2,938.00
TABU-B19ST1	Intermediate Casing	9 5/8	8.681	47.00	L-80	Top HC	1,774.60		15.90		1,790.50