

## TABU-B19

Report No: 19 Progress: 407.00

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	18.25
MD/TVD	3,158/	3,097/ 1,919
Cost (w/suppl)	13,700,000	4,377,985

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: 6/22/2020 00:00 to 6/23/2020 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) 85	Days Ahead/Behind	Daily Cost Total (Cost) 152,429	Cum Percent NPT (%) 3.42
Daily Personnel Count 136.0	Daily Personnel (hr) 3,264.00		Drill Time (hr) 15.60	

## Activity at Report Time

Drill and survey 8-1/2" production hole section. Depth: 3097 m.

## Next Activity

Drill and survey 8-1/2" production hole section to section TD +/- 3120 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. Circulate hole clean inside casing. Wiper trip to bottom to simulate running lower completion.

## Performance Limiter

Integrity / ECD

## Mitigation Attempts/Results

Control ROP to 35 - 40 m/hr and backream.

Average Background Gas 0.35	Average Connection Gas 0.00	Average Trip Gas 0.00	Average Drilling Gas 0.40	Formation Description 40 % claystone 60 % sandstone.
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

## Time Log

Start Time	Elapsed Time (hr)	End MD (mKB1)	Category	Comments																																																																				
00:00	24.00	3,097.00	DRLG	<p>Drill and survey 8-1/2" production hole with 10.3 ppg NAF from 2690 m to 3097 m.</p> <ul style="list-style-type: none"><li>- 640 gpm, 3410 psi.</li><li>- 150 rpm, Torque: 12 - 15 kft-lbs.</li><li>- WOB: 10 - 18 klbs, Instantaneous ROP: 25 - 30 m/hr. Average ROP: 16.96 m/hr.</li><li>- ECD: 11.72 - 11.89 ppg. Control ROP and backream 1 std for hole cleaning and reduce ECD.</li><li>- P/U wt: 260 klbs, S/O wt: 148 klbs, Rot wt: 181 klbs. T&amp;D FF: P/U 0.2, S/O 0.15.</li><li>- Background gas: 0.3 - 0.4 %. Max gas 1.7 % at 3071 m.</li><li>- Acoustic caliper: 8.69" - 8.81"</li><li>- 1/4" PDC ribbons cutting structure. No signs of borehole instability. Average cutting weight: 10 - 30 kg/min.</li><li>- MW out: 10.4 ppg. Run active centrifuge for solid control.</li></ul> <p>- Take survey 1 jt off bottom prior making connection.</p> <p>- Last survey at 3074.56 mMD, 1907.53 mTVDDF. Inclination: 58.89 deg. Azimuthal: 349.58 deg.</p> <p>- Compare to plan: 0.66 m above. 0.1 m right. 0.66 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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## Daily Offline Time Log Summary

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

## TABU-B19

Report No: 19 Progress: 407.00

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	18.25
MD/TVD	3,158/	3,097/ 1,919
Cost (w/suppl)	13,700,000	4,377,985

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Proprietary

Units: Mixed Currency: USD

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

Well Working Elev: 32.07 mKB1 - depths must match!

Rpt Period: 6/22/2020 00:00 to 6/23/2020 00:00

## 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
2,690.00	3,097.00	407.00	26.1	15.60	22.54	22	150	658	3,400.0	181	260	148	15,000.0

## Management Summary

## Management Summary

Tabu-B 19 ST1: Continue drill and survey 8-1/2" production hole section to section from 2690 m to 3097 m.

## Mud Checks

Source Pit	Date 6/22/2020 20:00	Fluid Type NAF	Fluid Category Low Toxicity Mineral Oil	MD (mKB1) 3,050	Density (lb/gal) 10.30	ECD (lb/gal) 11.77
Funnel Viscosity (s/qt) 60	FL Temp (°C) 77.0	Plastic Viscosity (cP) 34.0	Yield Point (lb/100ft²) 14	10-Sec Gel (lb/100ft²) 10	10-Min Gel (lb/100ft²) 19	30-Min Gel (lb/100ft²) 23
600 RPM Dial Reading 82	300 RPM Dial Reading 48	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) 117.0
Excess Lime (lb/bbl) 3.4	Ca++ (mg/L)	Chlorides (mg/L) 223,906	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 0.67
Alkalinity (mL/mL) 0.7	WPS (ppm) 178,184	Electrical Stability (V) 684.0	Filter Size (µm)	Iron Content (mg/L)	NTU	TCT (°C)
Volume % Water (%) 17.0	Volume % Oil (%) 68.0	Oil/Water Ratio 80/20	Sand Content (%) 0.3	Volume % Solids (%) 15.0	LGS (%) 6.1	HGS (%) 6.8

Evaporation Volume Added (bbl)

## Comments

Active Pit

## Mud Volume Summary

Addition/Loss Addition			Type Additives	Subtype	Volume (bbl) 86.8
Addition/Loss Loss			Type Surface	Subtype	Volume (bbl) 168.8
Addition/Loss Loss			Type Tank 1	Subtype	Volume (bbl) 670.0
Active Volume (bbl) 2,393.0	Var Active Volume (bbl) -752.0	Balance (bbl) 0.0	Tank Volume (bbl) 1,703.5	Additions (bbl) 86.8	Cum Additions (bbl) 1,320.7
Losses (bbl) 838.8	Cum Losses (bbl) 1,566.7	Additions - Losses (bbl) -752.0	Cum Additions - Losses (...) -246.0	Hole Volume (bbl) 689.5	Var Hole Volume (bbl) 94.1

## Mud Additive Amounts

Function	Description	Sales Unit Size	Sales Unit	Consumption	Cum Consumption
Weighting Material	Barite	100.0	Pound	2.0	22.0
Base Fluid	BASE OIL MG3	42.0	US Gallon	60.0	380.0
Lost Circ Material	Calcium Carbonate 25	25.0	Kilogram	20.0	150.0
Lost Circ Material	Calcium Carbonate 50	25.0	Kilogram	20.0	180.0
Viscosifier	Carbo Drill	42.0	US Gallon	-670.0	2,814.0
Bridging Agent	CHEK-LOSS PLUS	25.0	Pound	20.0	120.0
Filtration Reducer	FL 1790	200.0	Liter	1.0	4.0
Alkalinity (pH)	Lime	25.0	Kilogram	28.0	52.0
Shale Inhibitor	SOLTEX	50.0	Pound	20.0	100.0
Emulsifier	TCM MUL HT PLUS	55.0	US Gallon	1.0	5.0
Emulsifier	TCM MUL S-HT	55.0	US Gallon	1.0	5.0

## 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	66.0	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	123.0	1,401.0	0.0	8,731.0	0.0	4,344.0	2,986.0
Water - Fresh - Purchased Non-Potable	1	bbl	275.0	4,405.0	0.0	30,890.0	0.0	13,634.0	12,851.0
Water - Fresh - Purchased Potable	1	bbl	201.0	4,289.0	195.0	11,378.0	0.0	3,676.0	3,413.0

## TABU-B19

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Wellbore:

Rig Name: Sapura T-9

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Rpt Period: 6/22/2020 00:00 to 6/23/2020 00:00

String No. 3						
Drill String Name	String Number	Date In	Dt Lst Drig Parm	MD In (mKB1)	MD Lst Drig Par (mKB1)	
8 1/2" Drilling BHA	3	6/20/2020 00:00	6/23/2020 00:00	1,791.50	3,097.00	
Min WOB (1000lbf)	Min Total RPM (rpm)	Min Circ Rate (gpm)	Min SPP (psi)	Min Pickup HL (1000lbf)	Min Slackoff HL (1000lbf)	Min Rotate HL (1000lbf)
22	150	658	2,930.0	220	133	162
Max WOB (1000lbf)	Max Total RPM (rpm)	Max Circ Rate (gpm)	Max SPP (psi)	Max Pickup HL (1000lbf)	Max Slackoff HL (1000lbf)	Max Rotate HL (1000lbf)
22	150	660	3,400.0	260	148	181

Comments

## String No. 3 - Bit Information

Bit	Bit And Run Number	Bit Type	Nozzles (1/32")	Total Bit TFA (in <sup>2</sup> )
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
	1,305.50	38.03	34.3	-----

## 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 &amp; 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 <sup>2</sup> )	Jet Vel (m/s)	Bit dP (psi)	% P @ bit (%)
2,690.00	3,097.00	26.1	15.60	22.54	22	150	658	3,400.0	181	260	148	15,000.0				

## Wellbore Information

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

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

## 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)
2,690.00	69.17	326.06	1,741.80	683.87	295.39	-645.65	1.62

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2,727.91	69.17	326.56	1,755.28	717.91	324.88	-665.30	0.37
2,756.30	69.07	326.62	1,765.40	743.36	347.02	-679.91	0.12
2,785.88	67.96	326.65	1,776.23	769.75	370.01	-695.05	1.13
2,814.62	66.88	328.49	1,787.27	795.08	392.40	-709.28	2.10
2,843.43	66.06	330.51	1,798.77	820.00	415.16	-722.68	2.11
2,872.78	64.95	333.14	1,810.94	844.82	438.70	-735.29	2.70
2,901.17	63.82	335.97	1,823.22	868.14	461.81	-746.29	2.95
2,929.94	62.85	338.50	1,836.13	891.04	485.51	-756.24	2.57
2,958.58	61.84	340.78	1,849.42	913.12	509.29	-765.07	2.37
2,986.17	60.84	343.23	1,862.66	933.69	532.32	-772.55	2.58
3,017.13	59.70	346.09	1,878.01	955.85	558.24	-779.67	2.65
3,046.29	58.92	348.03	1,892.90	975.91	582.67	-785.28	1.89
3,074.56	58.89	349.58	1,907.50	994.82	606.42	-789.98	1.41
3,097.00	58.89	350.08	1,919.09	1,009.61	625.33	-793.38	0.57
3,107.70	58.89	350.08	1,924.62	1,016.64	634.35	-794.95	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