



# DAILY DRILLING REPORT

## PTTEP

### STWC-05

Field Name	Branch Name	Start Depth (m)	Company's Representatives	Casing	DATE:	22-Dec-2022
G1/61 SOUTH TRAT		101.07	Company Man	OD (in)	Depth (mMD/mTVD)	RPT #:
			Aranee Chotipanit	7.000	1,869.42	1,623.54
Rig	Phase		Wimolmas Luewisawakul	Next :	2.875 in @ 3,653.56 m	Midnight Depth (mMD/mTVD)
T-15	6-1/8" x 2-7/8"					3,589.00
						2,791.81

Penetration									Bit				Parameters					
Bit Run	Start (m)	End (m)	Interval (m)	Time (hr)	ROP (m/hr)	Cum Depth (m)	Cum Time (hr)	Tot ROP (m/hr)	Bit and Core Head Inventory	Bit Dull	Nozzle (32nd")	TFA (in?)	WOB (kip)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbf)	
2	3,282.00	3,589.00	307.00	15.22	20.2	1,529.00	42.64	35.9	6.125 in, SMITH, MDI516, QF1826	-----	11x5	0.211	15/19	180/180	750	2,900.0	11,000/13,000	

Drillstring Assembly																		
BHA Run	BHA																	
4	6-1/8" PDC Bit (MDI516)new, PD 475 Orbit AA 6 1/8" Slick CC, 6" Non-Mag Stabilizer, 4-3/4" Crossover, IMPulse-MLWD HT (681-1170LPM), ADN4-LWD HT w/5-3/4" IB Stabilizer, Crossover NC38 to XT39, 25 Joints x 4" HWDP, 4 3/4" Hydra Jar, 4 Joints x 4" HWDP, Crossover XT																	

Time Log						Survey Data				Mud			
Start Time	End Time	Comment	Code	Sub Code	Dur (hr)	MD (m)	Incl (?)	Azm (?)	Method	Mud Type:			
0:00	18:30	Drill 6-1/8" hole with RSS BHA from 3282 m to shorten TD at 3589 mMD/ 2791.81 mTVD with 1.57 SG SDF. BHCT 171 degC at 3589 mMD/ 2791.81 mTVD. Max Gas 19.38% / BG 2.5% from 3418 mMD/ 2682.96 mTVD. (Total 17 gas shows, 58.62 mTVD sand thickness). Rotate: WOB 15 - 19 klbs, 750 - 850 lpm, 2700 - 2900 psi, 180 rpm, 11.0/13.0 kft-lbs (off/ on). Rotate: 307 m/ 15.22 hrs, Avg ROP = 20.17 mph. P/U (with rotation) 225 klbs, S/O 208 klbs, R/O 213 klbs. Avg. daily off bottom time = 16:19 mins/ std (Drill total 11 stands, Total off bottom time 2:59:30 hrs). Well trajectory at TD: 2.84 m above and 2.69 m right of the plan. Note: - No loss/gain/caving while drilling. - Maintain Graphite F/M 2/2 ppb each in active system. - Top of Sequence 3 formation at 3160 mMD/ 2519.03 mTVD. - Perform temperature mitigation from 3570 mMD. - Asset decided to call shorten TD due to high temperature and low potential pay.	DRILL	Normal	18.50	3271.1300	50.4400	101.5500	MWD	CARBO-DRILL			
						3300.1800	50.5900	101.1500	MWD	Mud Weight (sg)	ECD (sg)	Mud T (?C)	
						3328.9600	50.4200	101.0000	MWD	1.57		62	
						3357.7700	50.5900	101.1600	MWD	Initial (m?)	Added (m?)	Final (m?)	
						3387.0300	50.5500	101.2100	MWD	241.20	17.20	236.90	
						3444.0700	50.3700	100.9200	MWD	Form. Gain (m?)	Form. Los. (m?)	Surf. Los. (m?)	
						3473.0100	50.4200	100.9000	MWD	0.00	0.00	21.50	
						3502.0700	50.5700	100.9300	MWD	YP (lb/100ft <sup>3</sup> )	YS (lb/100ft <sup>3</sup> )	PV (cp)	Marsh (s/qt)
						3530.5500	50.5900	100.9900	MWD	18	20.00	37	98
						3559.3300	50.4200	101.0600	MWD	pH	Pm (cc)	Pf (mL/mL)	Mf (mL/mL)
						3589.0000	50.5000	101.0000	Project to bit	Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)
										Summary/Remarks			
				Actual / AFE Days = 8.34 / 6.86 days (+1.48 days) Daily / Total NPT = 0.00 / 1.78 days (0.42 days w/o WOW) Total POB = 125				KCl (mg/L) Sand (%) Solids (%) CEC (me/hg)					
				No incident/ accident reported. DMAP Verification = No Issues all risk reduction verified. SOC: 114 (Positive: 47 and Hazards: 67)				Filt. (ml/30 m) FC (32nd") HPHT Filt. (ml/30 m) HPHT FC (32nd")					
								Water (%) Oil (%) OW ES (Volts)					
								11.5 64.5 85/15 992.0					
								LGS (%) HGS (%) Lime (mg/L) Cl- (mg/L)					
								4.7 5,200.0 25,000					
								Mud Products					
								Mud Type Unit On Loc Used					
								BARITE MT 359.0 35.0					
								CALCIUM CHLORIDE 25 kg bag -115.0 15.0					
								CARBO-MUL HT 55 gal 9.0 4.0					
								DFE-4023, 20 KG BAG each 135.0 5.0					
								LIME 25 kg bag -122.0 35.0					
								MAGMA-TROL 25 kg bag -7.0 17.0					
								MAGMA-VERT 200 ltr. Dr 10.0 6.0					
								NIF-2000 25 kg bag -65.0 18.0					
								OVATROL HT 50 lb bag -55.0 15.0					
								OVATROL XHT 50 lb bag 17.0 7.0					
18:30	22:00	Circulate B/U. Drop carbide. Circulate hole clean and condition mud with 1.57 SG. (750 lpm, 2550 - 2600 psi, 100 rpm, 9 - 11 kft-lbs). Note: - TD sample: 90% Clay and 10% sand. - Hole size from Carbide: First 6.22"/ Peak 6.59"/ Avg. 6.40". - Pump 30 bbl graphite F/M 15ppb each to aid wireline logging. - Total circulation at TD = 3.5 bottom up. - No static and swab test due to high P/U wt. Decision made to back ream out of hole 10 stands.	CIRC	All circulations at TD	3.50								

Operation Summary		Personnel		Day Total	Cum to Date	Mud Total	Mud Cum to Date	Main Stock				
Drill 6-1/8" hole to shorten TD at 3589 mMD/ 2791.81 mTVD. Drop carbide. Circulate hole clean. Backream OOH 10 stands.		Company	Qty					Supply Item	Unit	Receive	Used	Stock
		EXLOG (GOLOGIST)	1	Supply Boats			Standby Boat		BASE FLUID	M3	9.0	430.0
		BAKER HUGHES (Mud log)	2	Vessel Name	Date arrival	Depart	Vessel Name		BARITE BULK	Tons	20.0	453.0
		DHI/Exlog (Mud log)	6	BB Tongkham	21-Dec-2022	22-Dec-2022			DIESEL	M3	15.0	628.0
Well Status at 6:00 am		PTTEP	2		19:12	04:48			CEMENT	Tons	60.0	319.0
POOH 6-1/8" RSS BHA to 250 mMD.		SCHLUMBERGER (DD)	2						WATER, DRILLING	M3	6.0	471.0
Planned Operation		SCHLUMBERGER (MW)	3				Variable Load		WATER, POTABLE	M3	15.0	437.0
Perform static and swab test. Circ BU. POOH 6-1/8" RSS BHA to surface. Handle BHA. R/U and run wireline HSFT. Pull wearbushing. Run and land 2-7/8" completion tubing.		Halliburton (Wireline)	4				Max Variable Load (kip)					
		SPM (Wellhead Eng)	2									
		EXPRO (tubular)	5	Weather Conditions								
		Halliburton (Cementing)	4	Wave Height (m)	Wave Period (sec)	Wave Direction (?)	Wind Speed (knots)					
136.00 days without Lost Time Accident (LTA) PTTEP		NOV (Solid control)	4	0.60	4	0	7					
136.00 days without Lost Time Accident (LTA) Rig		Edrill	90	Wind Direction (?)	P Bar (mbar)	Current Speed (knots)	Current Direction (?)					
				0.00	1,007.0							



# DAILY DRILLING REPORT

## PTTEP

### STWC-05

Field Name	Branch Name	Start Depth (m)	Company's Representatives	Casing			DATE: 22-Dec-2022	
G1/61 SOUTH TRAT		101.07	Company Man	OD (in)	Depth (mMD/mTVD)		RPT #: 11	
			Aranee Chotipanit Wimolmas Luewisawakul	7.000	1,869.42	1,623.54		
Rig	Phase			Next : 2.875 in @ 3,653.56 m			Midnight Depth (mMD/mTVD)	
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Drillstring Assembly																		
BHA Run	BHA																	

Time Log					
Start Time	End Time	Comment	Code	Sub Code	Dur (hr)
22:00	0:00	Back ream out of hole from bottom to 3301 mMD with 750 lpm, 2400 - 2600 psi, 100 rpm, 9 - 11 kft-lbs. Note: - Back ream speed 2 mins/stand.  === 00:00 - 05:30 operation === 00:00 - 01:30 Perform Swab test. Circulate 10 mins. Perform Static test. Circulate bottom up with 700 lpm, 2000 - 2100 psi, 100 rpm, 9 - 10 kft-lbs. Note: - Static gas: 5.0%/ BG 2.5%. - Swab gas: 4.45%/ BG 2.5%. - P/U wt. 340 klbs  01:30 - 01:45 Line up to trip tank and flow check, hole static. 01:45 - 03:15 Continue POOH 6-1/8" RSS BHA with 4" DP from 3301 m to 7"shoe at 1869 m. No tight spot and hole take correct displacement. Note: - Avg. POOH speed in OH 36 std/hr (960 m/hr). 03:15 - 03:30 Flow check, hole static. While performing trip drill. 03:30 - 05:00 POOH 6-1/8" RSS BHA with 4" DP from 1869 m to 331 m (inside 7" casing). No tight spot and hole take correct displacement. 05:00 - 05:15 Line up to trip tank and flow check, hole static. 05:00 - 05:30 POOH 6-1/8" RSS BHA with 4" HWDP from 331 m to 250 m.	PULL BHA	Open Hole : Backream out	2.00
					Cum Dur 24.00

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		Supply Boats				Standby Boat							
		Vessel Name		Date arrival	Depart	Vessel Name							
Well Status at 6:00 am													
POOH 6-1/8" RSS BHA to 250 mMD.													
Planned Operation													
Perform static and swab test. Circ BU. POOH 6-1/8" RSS BHA to surface. Handle BHA. R/U and run wireline HSFT. Pull wearbushing. Run and land 2-7/8" completion tubing.													