



DAILY DRILLING REPORT

PTTEP

STWC-13

Field Name	Branch Name	Start Depth (m)	Company's Representatives		Casing		DATE:	14-Dec-2022
G1/61 SOUTH TRAT		101.07	Company Man		OD (in)	Depth (mMD/mTVD)	RPT #:	5
			Aranee Chotipanit		7.000	2,590.46	1,847.16	
Rig	Phase		Wimolmas Luewisawakul		Next : @ 4,179.00 m		Midnight Depth (mMD/mTVD)	
T-15	8-1/2" x 7"						2,596.00	1,850.70

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)	
1	2,443.00	2,596.00	153.00	3.31	46.2	176.00	25.50	6.9	8.500 in, HAL, GT460S, 13659415	3-1-LT-T-X-I-ER-TD	6x13	0.778	10/20	100/100	2,700	2,800.0	10,000/17,000	
Drillstring Assembly																		
BHA Run	BHA																	
2	8 1/2" PDC Bit GT460S New, PowerPak A675M7850XP, 1.5deg bent with FV Rotor, 7-1/4" Stabilizer, 6 3/4" Pony NMDC, TeleScope 675 (1900-3790LPM), 6 3/4" NMDC, 6 3/4" sub, 20x 5" HWDP (20 joints) (Total length: 222.3 m)																	

Time Log						Survey Data				Mud			
Start Time	End Time	Comment	Code	Sub Code	Dur (hr)	MD (m)	Incl (?)	Azm (?)	Method	Mud Type:			
0:00	5:00	Drill 8-1/2" hole (Motor/MWD) from 2443 m to TD section at 2596 mMD / 1850.91 mTVD with 1.1 SG WBM. BHCT 74.51 degC at 2596 mMD/ 1850.91 mTVD. Rotate: WOB 15 - 20 klbs, 2700 lpm, 2600 - 2800 psi, 100 rpm, 10.0/17.0 kft-lbs (off/ on). Slide: WOB 10 - 18 klbs, 2700 lpm, 2350 - 2400 psi. Rotate: 153 m/ 3.31 hrs, Avg ROP = 46.22 mph. P/U 305 klbs, S/O 150 klbs, R/O 203 klbs. Well trajectory at TD: 0.75 m below and 8.42 m right of the plan. Note: - Ensure not have 2 sweep in the hole at the same time. - Pump 40 bbls unweighted Hi-vis Xanthan Gum sweep every 2 stands. - Sweep 100 bbl of Hi-vis on last stand before section TD and followed by 1.18 SG WBM.	DRILL	Normal	5.00	2458.3000	47.0600	71.7100	MWD	Gel/Polymer			
						2488.0300	46.7600	71.6200	MWD	Mud Weight (sg)		ECD (sg)	Mud T (°C)
						2517.3700	47.1300	71.3100	MWD	1.18		39	
						2546.2600	47.1100	70.9900	MWD	Initial (m?)		Added (m?)	Final (m?)
						2596.0000	47.5000	70.5000	Project to bit	345.16	71.87	0.00	
										Form. Gain (m?)		Form. Los. (m?)	Surf. Los. (m?)
										0.00	7.94	125.09	
										YP (lbf/100ft²)	YS (lbf/100ft²)	PV (cp)	Marsh (s/qt)
										21	14.00	22	51
										pH	Pm (cc)	Pf (mL/mL)	Mf (mL/mL)
				9.0	0.140	0.100	0.12						
				Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)						
Summary/Remarks													
5:00	9:15	Circulate till 1st sweep pill and WBM on surface. Pump 2nd, 3rd and 4th (after previous pill on surface) 100 bbls of Hi- Vis Xanthan Gum sweep and continue to circulate hole clean (2700 lpm, 2600 - 2700 psi, 90 - 100 rpm, 13 - 15 kft-lbs). Note: - Hole size from 1st Hi-Vis sweep / PHPA / 2nd & 3rd & 4th Hi-vis = 11.40"/ 11.35"/ 11.40"/ 11.40" . - Bottom up sample: 90% clay and 10% Sand. - Total circulation at TD = 5.0 bottom up.	CIRC	All circulations at TD	4.25	Actual / AFE Days = 2.34 / 6.87 days (-4.53 days) Daily / Total NPT = 0.00 / 0.00 days (0.00 days w/o WOW) Total POB = 125				KCl (mg/L)	Sand (%)	Solids (%)	CEC (meq/hg)
						No incident/ accident reported. DMAP Verification = No Issues all risk reduction verified. SOC: 134 (Positive: 60 and Hazards: 74)				Filt. (ml/30 ml)	FC (32nd")	HPHT Filt. (ml/5)	HPHT FC (3)
										Water (%)	Oil (%)	OW	ES (Volts)
										LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)
										4.1		0.0	21,000
Mud Products													
Mud Type										Unit	On Loc	Used	
BARITE, MT BULK										MT	266.0	5.0	
BIOCIDES X102, 5 GAL										5 gal	54.0	2.0	
PHPA, 25 KG BAG										25 kg bag	110.0	8.0	
XANTHAN GUM, 25 K										25 kg bag	469.0	20.0	
9:15	9:30	Flow check and line up trip tank, well static.	FLOWCHK	At section TD	0.25								
9:30	12:30	Slug pipe. POOH 8-1/2" BHA with 5" DP from bottom to 9-5/8" casing shoe at 302 m. Hole take correct displacement. Note: - Avg. POOH speed 35 std/hr.	PULL BHA	Open Hole : Pull w/o pump	3.00								
12:30	12:45	Flow check and line up trip tank, well static.	FLOWCHK	Other	0.25								
12:45	13:30	POOH 8-1/2" BHA with 5" HWDP from 302 m to surface. Handle 8-1/2" BHA. Break out bit. Rack back Motor/MWD BHA.	R/B BHA	MWD only	0.75								
13:30	14:15	Retrieve wear bushing and jet wellhead.	WB	N/A	0.75								
14:15	14:30	Rig up 7" casing handling equipment.	R/U CSG	Side door elevator	0.25								

Operation Summary		Personnel		Day Total	Cum to Date	Mud Total	Mud Cum to Date	Main Stock					
Drill 8-1/2" hole to section TD at 2596 mMD/ 1850.91 mTVD. Pump sweep. Displace to 1.18 SG WBM. Circulate hole clean. Pump slug. POOH and R/B BHA. Run and land 7" casing at 2590.46 mMD/ 1847.16 mTVD. Skid to STWC-17.		Company	Qty					Supply Item		Unit	Receive	Used	Stock
		EXLOG (GOLOGIST)	1	Supply Boats			Standby Boat		BASE FLUID	M3			349.0
		BAKER HUGHES (Mud log)	2	Vessel Name	Date arrival	Depart	Vessel Name		BARITE BULK	Tons		28.0	369.0
		DHI/Exlog (Mud log)	6	TC-89	14-Dec-2022 07:36	14-Dec-2022 12:30			DIESEL	M3		22.0	558.0
		PTTEP	2						CEMENT	Tons	100.0		215.0
Well Status at 6:00 am		SCHLUMBERGER (DD)	2						WATER, DRILLING	M3		11.0	599.0
*** Rig temporarily release from STWC-13 to STWC-17 on 14 - Dec - 2022 at 20:30 hrs. ***		SCHLUMBERGER (MW)	3				Variable Load		WATER, POTABLE	M3		15.0	292.0
Planned Operation		Halliburton (Wireline)	4				Max Variable Load (kip)						
*** Rig temporarily release from STWC-13 to STWC-17 on 14 - Dec - 2022 at 20:30 hrs. ***		SPM (Wellhead Eng)	2										
		EXPRO (tubular)	5	Weather Conditions									
Accidents		Halliburton (Cementing)	4	Wave Height (m)	Wave Period (sec)	Wave Direction (?)	Wind Speed (knots)						
117.00 days without Lost Time Accident (LTA) PTTEP		NOV (Solid control)	4	1.60	6	90	12						
117.00 days without Lost Time Accident (LTA) Rig		Edrill	90	Wind Direction (?)	P Bar (mbar)	Current Speed (knots)	Current Direction (?)						
				70.00	1,008.0								

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Drillstring Assembly																		
BHA Run	BHA																	

Time Log					
Start Time	End Time	Comment	Code	Sub Code	Dur (hr)
14:30	14:45	Hold PJSM. Pick up 7" casing Float shoe, shoe track and Float collar. Check float equipment, ok.	CHEKFLOAT	N/A	0.25
14:45	15:15	RIH 7" Casing to 9-5/8" casing shoe at 301.97m. Note: - Avg. RIH speed 550m/hr.	RUNCSG CH	Double joint	0.50
15:15	19:45	RIH 7" Casing from 9-5/8" casing shoe to 2590.46 m. Note: - Avg. RIH speed 580 m/hr.	RUNCSG OH	Double joint	4.50
19:45	20:15	Pick up 7" Casing integral hanger with running tool from derrick. RIH and land 7" Casing hanger. Pressure test hanger seals to 6500 psi, ok. Engage lock ring and pull test 10 klbs over string wt. Re-pressure test seals to 6500 psi (MK-2 wellhead). Note: - 7" Casing shoe at 2590.46 mMD/ 1847.16 mTVD and float collar at 2576.38 mMD. - Total run: 194 joints of 7" Casing 29# L80 TPCQ HT R3 + 1 Float Shoe + 1 Float Collar. - On last 5 stands, flush wellhead through side outlet valves with seawater (1200 lpm, 210 psi) and drain BOP stack.	LANDCSG	N/A	0.50
20:15	20:30	Hold PJSM. Nipple down BOP. *** Rig temporarily release from STWC-13 to STWC-17 on 14 - Dec - 2022 at 20:30 hrs. *** *** Total day on well Actual/ AFE = 2.34/ 6.87 days. *** ===== Offline Cementing Operations ===== 21:30 - 22:00 hrs Nipple down risers. Rig up cement adapter, cement head and lines. 22:00 - 03:45 hrs Line up to mud pump. Circulate prior to cement job with 900 - 950 lpm. No losses. 03:45 - 04:00 hrs Cement unit flush line and pressure test line to 5000 psi. 04:00 - 04:15 hrs Cement unit pump 20 bbls seawater spacer. 04:15 - 05:30 hrs Cement unit mix and pump 436.2 bbls of 1.50 SG lead slurry and 55.3 bbls of 1.90 SG tail slurry (OH = 11.4" with 0% excess) - In progress.	BOP	N/D-N/U BOP and install wellhead	0.25
					Cum Dur 20.50

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								Variable Load					
Well Status at 6:00 am													
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