



DAILY DRILLING REPORT

PTTEP

TMA-13A

Field Name G2 / 61	Branch Name Original hole	Start Depth (m) 108.50	Company's Representatives Company Man	Casing OD (in) Depth (mMD/mTVD) 9.625 1,355.30 1,321.42		DATE: 10-Feb-2023
			Nithis Jamongkaew Apisit Kumpanglong	Next : 7.000 in @ 3,477.00 m		RPT #: 9
Rig SKALD	Phase 8-1/2" x 7"			Midnight Depth (mMD/mTVD) 1,384.00 1,347.66		

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)
2NEW	1,359.00	1,384.00	25.00	0.70	35.7	25.00	0.70	35.7	8.500 in, NOV, TKC56-A5E, A270519		-----	6x13	0.778	8/10	80/80	2,300	2,700.0	7,000/8,000

Drillstring Assembly																		
BHA Run	BHA																	
2	8-1/2" PDC Bit, 7" Motor HF 3:4 4.3stg 1.5° Bend Solid FV, 6-3/4" HEL-IDS, 6 3/4" MFR, 6 3/4" NDT, 16 x 5" HWDP, 6 3/4" NOV Agitator, 6 3/4" NOV Shock Sub, 5 x 5" HWDP, 6-1/2" Hydraulic Jar, 4 x 5" HWDP (Total length: 283.2 m)																	

Time Log						Survey Data				Mud				
Start Time	End Time	Comment	Code	Sub Code	Dur (hr)	MD (m)	Incl (°)	Azm (°)	Method	Mud Type: CARBO-DRILL				
0:00	0:45	Connect TDS and wash down 9-5/8" casing(1000 lpm, 480 psi) from 1306 to 1332 m with normal return.	RUNCSG OH	Other	0.75					Mud Weight (sg)		ECD (sg)	Mud T (°C)	
0:45	1:30	Pick up 9-5/8" casing hanger with landing joint from derrick. Wash down to land 9-5/8" non-integral hanger with 64 klb landing weight. Note: - 9-5/8" Float shoe at 1355.3 mMD/1321.42 mTVD and float collar at 1341.5 m. - Total run 101 joints of 9-5/8" Casing 47# L80 HSM-2 R3 + 1 pup + 1 FC + 1 ECC.	LANDCSG	N/A	0.75					Initial (m³)		Added (m³)	Final (m³)	
										357.16		0.00	357.16	
										Form. Gain (m³)		Form. Los. (m³)	Surf. Los. (m³)	
										0.00		0.00		
1:30	2:45	Circulate bottom up prior to cement job (1000 lpm, 200-300 psi) with 1.20 SG WBM, no loss.	CMTJOB	Circulate prior	1.25					YP (lb/100ft²)		YS (lb/100ft²)	PV (cp)	Marsh (s/qt)
2:45	5:15	Break out gary tool. Rig up cement head and line. Cement unit flush line with seawater and pressure test line to 300/5000 psi, 5/5 mins. Note: -Observe very difficult to break out gary tool from landing joint.	R/U CMT	N/A	2.50					11		14	55	
										pH		Pm (cc)	Pf (mL/mL)	Mf (mL/mL)
5:15	6:00	Cement unit pump 20 bbls of sea water ahead. Mix and pump 101.7 bbls of 1.50 SG lead slurry and 68 bbls of 1.90 SG tail slurry (OH = 13.26", no excess), no loss.	CMTJOB	Pump cement	0.75	Summary/Remarks				Ca++ (mg/L)		Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)
6:00	7:30	Drop top plug. Cement unit displace cement with first 10 bbls of 1.20 SG WBM . Switch to rig pump. Rig continue displace with 300 bbls of 1.20 SG WBM . Equalize pressure and switch to cement unit. Cement unit displace last 12.6 bbls of 1.20 SG WBM (Total displacement volume 322.6 bbls). Final pressure before bump plug 750 psi, 2 bpm. Bump plug and pressure test casing to 2800 psi. Bleed off pressure, float holding. CIP at 7:13 hrs 10-Feb-2023. Note: - Loss 13.7 bbls during cement job. - No cement contamination on surface. - Estimated TOC by volumetric calculation : 752 m (52 m below plan). - Estimated TOC by differential pressure calculation : 766 m (66 m below plan).	CMTJOB	Displace	1.50	Actual / AFE Days = 8.94 / 33.73 days (-24.79 days) Daily / Total NPT = 0.09 / 1.09 days (0.09 days w/o WOW) Total POB = 128				KCl (mg/L)		Sand (%)	Solids (%)	CEC (me/hg)
						- No incident/accident - DMAP Verification = No Issues all risk reduction verified - SOC:133 (Positive: 118 and Hazard: 15) - Next full BOP test: 28th Feb 2023				Filt. (ml/30 min)		FC (32nd")	HPHT Filt. (ml/30 min)	HPHT FC (32nd")
										Water (%)		Oil (%)	OW	ES (Volts)
										14.5		74.0	84/16	768.0
										LGS (%)		HGS (%)	Lime (mg/L)	Cl- (mg/L)
										2.2				32,000
										Mud Products				
										Mud Type		Unit	On Loc	Used
										BARITE, MT BULK		MT	330.0	15.0
										CALCIUM CHLORIDE		25 kg bag	220.0	224.0
										CARBO-MUL HT, 55 G		55 gal	30.0	10.0
										CARBO-GEL, 25 KG B		25 kg bag	80.0	12.0
										DFE-4023, 20 KG BAG		20 kg	67.0	3.0
										LIME, 25 KG BAG		25 kg bag	270.0	50.0
										MAGMA-TROL, 25 KG BAG		25 kg bag	28.0	5.0
										QUACEL HT, 25 KG BAG		25 kg bag	153.0	12.0



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Drillstring Assembly																		
BHA Run	BHA																	

Time Log					
Start Time	End Time	Comment	Code	Sub Code	Dur (hr)
11:00	13:15	P/U 8-1/2" Motor/MPWD/LWD/Agitator BHA. Program tool. Load radioactive source. RIH with 5" HWDP to 283 m. Note: - Make up Agitator at 183 m and function test.	M/U BHA	LWD w/ Radioactive Source	2.25
13:15	14:30	RIH 8-1/2" Motor/MPWD/LWD/Agitator BHA with 5" DP from 283 m to 1295 m. Note: - Average running speed 809 m/hr.	RUN BHA	Cased Hole : By Singles	1.25
14:30	15:15	Displace hole with 1.15 SBM at 1295 m with 1500-2000 lpm, 1200-1900 psi.	CIRC	Other	0.75
15:15	18:15	Wait on cement. Note: - Pick up and rack back 7" casing.	WOC	N/A	3.00
18:15	18:45	Wash down with 1.15 SBM from 1570 m to tag TOC at 1337 m with 560 lpm, 260 psi. Note: - Expect TOC at 1329 m.	DRLSHOE	N/A	0.50
18:45	20:30	Drill out cement, top plug, float collar, cement in shoe track, and float shoe (4-10 klbs, 2300 lpm, 2500 psi, 70 rpm, 3-10 kft-lb). Clean out rat hole and drill out 3 m new formation from 1359 m to 1362 m. Note: - Precaution to clean out rat hole and drill out new formation due to junk in hole.	DRLSHOE	N/A	1.75
20:30	21:00	- Cement unit pressure test surface line offline to 3000 psi prior to perform LOT. Attempt to perform LOT, observe high formation strength. Decision made to call FIT at 1146 psi with 1.15 SG SDF (1.76 SG EMW, shoe at 1321.42 mTVD). Note: - FIT sample: 70% Clay ,and 30% CMT.	TSTSHOE	FIT	0.50
		- Total pump/return = 1.8/1.8 bbls - Minimum acceptable LOT = 1.61 SG EMW.			
21:00	21:45	Drill 8-1/2" hole (Motor/MPWD/LWD/Agitator) from 1362 m to 1384 mMD/ 1347.66 mTVD. Rotate: WOB 8-10 klbs, 2300 lpm, 2600-2700 psi, 80 rpm, 7-8 kft-lb Rotate: 25 m/ 0.7 hrs, Avg. ROP = 35.7 m/hr	DRILL	Normal	0.75
21:45	22:30	Observe MWD tool malfunction. Attempt to troubleshoot by recycle pump several time, neg. Decision was made to POOH to change out MWD tool.	DHEQP-MW D	Standard MWD <150degC	0.75
22:30	22:45	Flow check, hole static.	DHEQP-MW D	Standard MWD <150degC	0.25

Operation Summary		Personnel		Day Total	Cum to Date	Mud Total	Mud Cum to Date	Main Stock									
RIH 9-5/8" CSG to setting depth. Perform cement job. Install pack-off. M/U and RIH 8-1/2" Motor/MPWD/LWD BHA. WOC. Drill out shoe. Perform LOT. Drill 8-1/2" hole to 1384 mMD. Observe MWD tool malfunction. Decision was made to POOH to change out MWD tool. POOH 8-1/2" Motor BHA to 283 m. Well Status at 6:00 am Program tool MWD/LWD tool. Planned Operation M/U and RIH 8-1/2" Motor/MPWD/LWD BHA.. Drill 8-1/2" hole to TD at +/- 3478 mMD/ 3051 mTVD. <table><tr><th>Accidents</th><th>Safety Drills</th></tr><tr><td>604.00 days without Lost Time Accident (LTA) PTTEP</td><td rowspan="2">PJSM, JSA</td></tr><tr><td>604.00 days without Lost Time Accident (LTA) Rig</td></tr></table>		Accidents	Safety Drills	604.00 days without Lost Time Accident (LTA) PTTEP	PJSM, JSA	604.00 days without Lost Time Accident (LTA) Rig	Company	Qty					Supply Item	Unit	Receive	Used	Stock
		Accidents	Safety Drills														
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		604.00 days without Lost Time Accident (LTA) Rig															
		Supply Boats				Standby Boat											
		Vessel Name		Date arrival		Depart		Vessel Name									
								Variable Load									
						Max Variable Load (kip)											
Weather Conditions																	
				Wave Height (m)		Wave Period (sec)		Wave Direction (°)		Wind Speed (knots)							
				Wind Direction (°)		P Bar (mbar)		Current Speed (knots)		Current Direction (°)							

Page 2 of 3



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Drillstring Assembly																				
BHA Run		BHA																		
Time Log																				
Start Time	End Time	Comment																	Code	Sub Code
22:45	0:00	POOH 8-1/2" Motor BHA from 1384 m to 283 m. Note: - Avg POOH speed in CH 881 m/hr. - Slug pipe at 1237 m. ==== 00:00 - 05:00 Operations ==== 00:00 - 02:15 hr POOH & rack back 5" HWDP stds. Handle BHA. Remove radioactive source. Break out MWD and lay down. 02:15 - 03:15 hr M/U new MWD with same 8-1/2" Motor BHA and bit. Program tool. 03:15 - 04:45 hr Observe hydra racker malfunction. Attempt to troubleshoot hydra racker, ok. 04:45 - 05:00 hr Program tool MWD/LWD tool.							DHEQP-MW D	Standard MWD <150degC	1.25									
										Cum Dur 24.00										
Operation Summary								Personnel		Day Total	Cum to Date	Mud Total	Mud Cum to Date	Main Stock						
RIH 9-5/8" CSG to setting depth. Perform cement job. Install pack-off. M/U and RIH 8-1/2" Motor/MPWD/LWD BHA. WOC. Drill out shoe. Perform LOT. Drill 8-1/2" hole to 1384 mMD. Observe MWD tool malfunction. Decision was made to POOH to change out MWD tool. POOH 8-1/2" Motor BHA to 283 m. Well Status at 6:00 am Program tool MWD/LWD tool. Planned Operation M/U and RIH 8-1/2" Motor/MPWD/LWD BHA.. Drill 8-1/2" hole to TD at +/- 3478 mMD/ 3051 mTVD.								Company	Qty					Supply Item	Unit	Receive	Used	Stock		
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Page 3 of 3