DAILY DRILLING REPORT
PT. GEO DIPA ENERGI (Persero)
4-Aug-22

OPERATOR	PT. GEO DIPA ENERGI (Persero)	CONTRACTOR	JV ADA - APS	REPORT NO. #	40
WELL/ PAD NAME	PTH-G-4C ST	FIELD	PATUHA	ENVIRONTMENT	ONSHORE
WELL TYPE/ PROFILE	BIG HOLE / J-TYPE	LATITUDE/ LONGITUDE	7° 10' 16.711 S / 107° 25' 9.968 E	GL - MSL (M)	1968 m-ASL

GENERAL			DRILLING PARAMETERS			AFE	
Rig TYPE / NAME		LAND RIG / ARJUNA#88	AVERAGE WOB (24 HRS)	KLBS		AFE NUMBER / AFE COST	USD 5,338,705.51
RIG POWER	HP	1,500	AVERAGE ROP (24 HRS)	M/HR		DAILY COST	USD 68,147.05
KB ELEVATION	Meter	11.00	AVERAGE SURFACE RPM / DHM			% AFE / CUMULATIVE COST 86.7%	USD 4,628,757.58
MIDNIGHT DEPTH	Meter	1381	ON / OFF BOTTOM TORQUE	KLBS-FT		DAILY MUD COST	USD 1,756.52
PROGRESS	Meter	0	FLOWRATE/ SPP	gpm/PSI		CUMULATIVE MUD COST	USD 301,242.02
PROPOSED TD	Meter	2150	AIR RATE	SCFM		PERSONNEL IN CHARGE	
SPUD DATE		25-Jun-22, 12:00	CORR. INHIB./ FOAM RATE	GPH		DAY/ NIGHT DRILLING SUPV.	KETUT / TEUKU
RELEASE DATE			PUW/SOW/ROTW	KLBS		DRILLING SUPERINTENDENT	BUDI SETIAWAN
PLANNED DAYS		48	TOTAL DRILLING TIME	HRS		RIG SUPERINTENDENT	NISAR JAHRI
DAYS f/ RIG RELEASE			TON MILES		224.0	DRILLING ENGINEER	EKA DAYA SAMUDERA
						HSE SUPERVISOR	HERDEDI

24 HOURS SUMMARY	Attempt to free stuck pipe at 1378 mMD.
24 HOURS FORECAST	Attempt to free stuck pipe. Prepare Wireline logging. Perform Wireline Logging Job: Run Dummy Tools, PT Tools
STATUS 05:00 Hrs 5-Aug-22	Prepare wireline logging on progress

HSE

SAFETY PERFORMANCE		HOURS RECORD		HAZARD MANAGEMENT		EMERGENCY DRILLS	
Nearmiss	1.0	KM Hrs Light Vehicle	142	JSA/HIRA	11	H2S Drill	19-Jun-22
Incidents	1.0	KM Hrs Heavy Equipment	20	PTW	11	BOP Drill/ Kick Drill	26-Jun-22
Last MTI	-	Total Daily Personnel	197	Pre Tour Meeting	2	Fire Drill	7-Jun-22
Last LTI	-	Daily Safe Manhours / Cum Safe Manhours	2,364/703,308	Observation Card	141	Trip Drill	26-Jun-22
Days w/out LTI	305.00	DWLTI Since	1-Oct-21	Safety Inspection/ Training	14	Medivac Drill	26-Jun-22

ACCIDENT/ INCIDENT SUMMARY	SAFETY ISSUES
N/A	N/A

ENVIROMENTAL RECORD				OCCUPATIONAL HEALTH RECORD	
Domestic Waste (m3)	4	Hazardous Waste (kg)		Fit for duty / MCU (person)	90
Hazardous Waste/B3 (kg)		Drill Cutting Vol (jumbo bag)	0	Clinic Visit	10
Spill Incidents (barrels)		Other (BB)		Number of Work Related Illnesses	
Enviro/ Community Issue		Cummulative 24 Hrs		Occupational Health Issue	

TIME BREAKDOWN

OPERATIONS FOR PERIOD 00:00 TO 24:00 HRS ON Thu, 4-Aug-22

TIME, HH:MM			DEPTH	PT/NPT	CODE	DESCRIPTION	OPERATIONS
START	END	ELAPSED					
0:00	3:30	3.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free the stuck pipe at 1378 mMD. - Working on pipe tension to 280 Klbs, set down to 100 Klbs - Inject Aerated with ADP 1000-2500 psi, SCFM 1000-1500, Foam/Corr Inhibitor : 18/10 gph. Stop Inject aerated, by pass string pressure to zero - Apply torque to 28 Klbs.ft (3 times) - Pump Mud + Lubricant 3% through string 25 Bbls, back to slug 9 Bbls.
3:30	4:30	1.0	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free the stuck pipe at 1378 mMD. Working on pipe. Apply tension to 400 Klbs, Set down to 50 Klbs. (Cummulative Fire Jar up : 90 times, Fire Jar down : 18 times)
4:30	6:00	1.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free the stuck pipe at 1378 mMD. - Inject Aerated with SCFM 1000-1500, ADP 1250-2250 psi, SPP 1210-2125 psi. Foam/Corr.Inhibitor : 20/10. Stop Inject aerated, by pass string pressure to zero
6:00	7:30	1.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free the stuck pipe at 1378 mMD. - Working on pipe. Apply tension to 250 Klbs, Set down to 100 Klbs. - Apply rotate string to TQ 28 Klbs.ft for several times.
7:30	9:30	2.0	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free the stuck pipe at 1378 mMD. - Inject Aerated with SCFM 1500, ADP 2435 psi, SPP 2360 psi. Foam/Corr.Inhibitor : 20/10 gph - Working on pipe. Apply tension to 250 Klbs, Set down to 100 Klbs. - Apply rotate string to TQ 27.9 Klbs.ft for several times. Stop Inject aerated, by pass string pressure to zero
9:30	10:30	1.0	1,381	NPT	2j	Stuck Pipe Include Handling operations	Break out 2 joints 5" DP (Stand #38). - Pick up 1 joint 5" DP and connect to string. - Retrieve ADA's RRH (10:30 WIB).
10:30	15:00	4.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free the stuck pipe at 1378 mMD. - Thermal cycling : Heating up while apply tension to 225 Klbs. - (14:00 WIB) Stand up 72 joints 3-1/2" DP.
15:00	16:30	1.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free the stuck pipe at 1378 mMD. - Inject Aerated with SCFM 1500-2000, ADP 2105-2500 psi, SPP 1250-2105 psi. Foam/Corr.Inhibitor : 20/10 gph - Working on pipe. Apply tension to 260 Klbs, Set down to 100 Klbs. - Apply rotate string to TQ 27.8 Klbs.ft for several times. Stop Inject aerated, by pass string pressure to zero. - While continue stand up 3-1/2" DP.
16:30	18:30	2.0	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free the stuck pipe at 1378 mMD. - Working on pipe. Apply tension to 280 Klbs, Set down to 120 Klbs. - Apply rotate string to TQ 28.2 Klbs.ft for several times. - While continue stand up 3-1/2" DP. - Inject aerated with SCFM 1500-2200, ADP 1900-2500 Psi, SPP 1870-2450 Psi Foam/Corr Inh 20/10 (17:30-18:30)
18:30	20:00	1.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Prepare RIH 3-1/2" DP : While continue Stand up 3-1/2" DP - PJSM prior to RIH 3-1/2" DP at annulus - Reposition String 5" DP, For 3-1/2" DP can RIH - Install 3-1/2" elevator - Decide to cancel RIH 3-1/2" DP
20:00	0:00	4.0	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free stuck pipe at 1378 mMD - Install ADA's RRH. Inject aerated with SCFM 1000-2000, ADP 140-2500 Psi, SPP 100-2575 Psi Foam/Corr Inh : 20/10 (21:30-24:00) - Working on pipe, tension to 250 Klbs, set down 125 Klbs - Apply torque to 28.5 Klbs.ft for several times. - While pump thru string with mud, w/ 100-300 gpm, 140 Psi to 2575 Psi Increased flow rate to 300-700 gpm (22:30-24:00) - After Pumping thru string mud 240 bbl got return at Shaker for 35 minute. - Total mud pumping thru string : 660 bbls - By pass ADP and string pressure to zero
TOTAL HRS		24.0					

OPERATIONS FOR PERIOD 00:00 TO 05:00 HRS ON **Fri, 5-Aug-2022**

TIME, HH:MM			DEPTH	PT/NPT	CODE	DESCRIPTION	OPERATIONS
START	END	ELAPSED					
0:00	4:30	4.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free stuck pipe at 1378 mMD - Inject aerated with SCFM 1000-2000, ADP 1000 - 2500 Psi, SPP 1000 - 2475 Psi (00:00 - 02:00) Foam/Corr Inh : 20/10 - By pass Pressure at ADP and string to zero - Working on pipe, tension to 250 Klbs, set down 125 Klbs - Inject aerated with SCFM 1000-2000, ADP 1000 - 2000 Psi, SPP 1000 - 1970 Psi (02:30 - 04:00) Foam/Corr Inh : 20/10 (at Report Time) - Apply torque to 28.5 Klbs.ft for several times
4:30	5:00	0.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Prepare wireline logging on progress

GENERAL COMMENTS	SIGNATURE		
	REPORTED BY	ACKNOWLEDGED BY	APPROVED BY
Progress activity : 51% Estimated Mud Loss (24 Hrs) : ± 256 Bbls. Estimated Cumulative Mud Loss : ± 22801Bbls Estimated Water Loss (24 hrs) : ± 0 Bbls. Estimated Cumulative Water Loss : ± 274501 Bbls **Record NPT** - NPT Rig Bundling 0 hrs / Cum 21.5 hrs (2,2%) - NPT Wireline/ Slick Line Job Unplanned 0 hrs/ Cum 32 hrs (3.3%) - NPT Sperry 0 hrs / Cum 20 hrs (2.1%) - NPT Wash / Reaming / Backreaming Unplanned 0 hrs / Cum 41.5 hrs (4.3%) - NPT Stuck 24 hrs / Cum 108.5 hrs (11.2%) - NPT Circulate / Condition Mud Unplanned 0 hrs / Cum 1.5 hrs (0.1%)	**KETUT D Y** DRILLING SUPERVISOR	**NISAR JAHRI** RIG SUPERINTENDENT	**AKHMAD RYAN SURYANSYAH** PROJECT MANAGER PATUHA 2

BIT RECORDS

	10	11
Bit Number	8 NB	8 RR
Bit Size in	12 1/4	12 1/4
Bit Run	11	12
Manufacturer/Type	Baker/VM-S30DX2	Baker/VM-S30DX2
IADC Code	TCI 537	TCI 537
Jets /32 in	2x32, 1x28	2x32, 1x28
Serial #	5321639	5321639
Depth In m	0.0	1,154.0
Depth Out m	1,154.0	
Meterage m	72.0	47.0
Bit Hours 24 hrs	11.12	19.10
TFA in^2	2.172	2.172
Tot Krev On Bttm	108.9	215.60
Tot Krev	208.7	369.2
Dull Grade In	New	1-1-WT-A-E-I-NO-BHA
Dull Grade Out	1-1-WT-A-E-I-NO-BHA	

BHA #12

DESCRIPTION	OD in	Length m
TCI Bit	12 1/4	0.33
8" SperryDrill Lobe 6/7-	8	8.88
8" Float Sub c/w Float Valve	8	0.65
11-1/2" Integral Blade	8	2.15
8" NMDC	8	9.34
8" EM Repeater Sub	8	0.91
8" EM Antenna Sub	8	0.95
3x8" DC	8	28.13
X/O	8	0.47
1x6.5" DC	6 1/2	9.33
9x5" HWDP	5	84.13
Sledgehammer Jar	6 1/2	6.33
16x5" HWDP	5	150.41
Total		**302.01**

BHA #13

DESCRIPTION	OD in	Length m
TCI Bit	12 1/4	0.33
8" SperryDrill Lobe	8	8.82
8" Float Sub c/w Float Valve	8	0.65
11-3/4" Integral Blade	11 3/4	2.32
8" NMDC	8	9.34
8" EM Repeater Sub	8	0.91
8" EM Antenna Sub	8	0.95
3x8" DC	8	28.13
X/O	8	0.47
1x6.5" DC	6 1/2	9.33
9x5" HWDP	5	84.13
Sledgehammer Jar	6 1/2	6.33
16x5" HWDP	5	150.41
Total		**302.12**

CASING

Last Size	in	13-3/8
Set MD	m	1,026
Set TVD	m	
Last FIT EMW	ppg	11.51
Next Size	in	10-3/4
Set MD	m	1,650
TOL	m	

MUD VOLUMES

Start	bbl	2,099
Lost Surface	bbl	
Lost DH	bbl	256
Dumped	bbl	
Built	bbl	
Ending	bbl	1,843

SOLID CONTROL EQUIPMENTS

SHAKERS	MODEL (TYPE)	SCREEN SIZE
Shaker #1	DERRICK (FLC-2000-4)	120/80/60
Shaker #2	DERRICK (FLC-2000-4)	120/70/60
Shaker #3	DERRICK (FLC-2000-4)	120/70/60
Mud Cleaner	DERRICK (FLC-2000-4)	4x140
Hi-G Dryer	FLC 2000-4	
Centrifuge	DE-1000	

CUMULATIVE

Meterage m	
Bit Hours Hrs	
ROP m/Hr	

CORROSION RING

	Install Date	Release Date	Location
1			
2			

BOP TEST

Date 1	Date 2
7-Jul-22	

GAS

Max. Gas	-
Conn. Gas	-
Trip Gas	-
Back Gas	-

DRILLING FLUID

	Active Tank				Active Tank		
Mud Type	KCL Polymer	KCL Polymer	KCL Polymer	Cl mg/l	29000	29000	29000
Time HH:MM	11:00	20:00	23:30	K mg/l	27400	27000	27000
MW in ppg	8.7	8.7	8.7	MBT lb/bbl			
MW out ppg	8.7	8.7	8.7	Sand %	0.1	0.1	0.1
Temp in degC	30	30	30	Solid Content %	2	2	2
Temp out degC				Retort Water %	98	98	98
Pres. Grad psi/ft				HGS %			
Funnel Visc sec	43	42	42	LGS %			
PV cP	10	12	11	600 RPM	43	43	44
YP lbf/100ft2	23	23	24	300 RPM	33	33	33
Gels 10 sec	9	8	8	200 RPM	28	27	27
Gels 10 min	12	12	12	100 RPM	23	22	22
Fluid Loss mL/30min	10.6	10.6	10.6	6 RPM	10	10	10
pH	10	10	10	3 RPM	7	7	7

MUD ADDITIVE

Type	Amount
KOH	2
XCD	
PAC LV	
KCL	
Corrosion Ring	
Defoamer	
Lubricant	4

HYDRAULIC

Annular Vel	m/min	
Pb	psi	
Sys HHP		
HHPb	hp	
HSI	hp/in2	
% psi bit	%	
Jet Velocity	m/sec	
Impact force	lbs	
IF/area	lbs/in2	

Type	Amount

FUEL RECORD

Fuel Tank Location	0	Usage (liters)		Received (liters)	On H& (liters)
Rig	75,159	Rig Engines + Others	4,196	8,000	73,813
		Light Vehicle/ HDE	150		
		Non Rig Bundling	5,000		
Base Camp	1,750	Engine Basecamp	400	8,000	9,350
Mini Camp	0				
TOTAL	**76,909**		**9,746**	**16,000**	**83,163**

WEATHER

TEMP (^{0}C)		FOGGY & RAINING		BAROMETRIC	WELLSITE		LOCATION CONDITION		
HIGH	LOW	TIME	RAIN DEGREE	PRESS (ATM)	ELEVATION (M)	WIND SPEED (KM/H)	BASECAMP	ACCESS ROAD	WELLSITE
19	10				1968.00		Dry	Dry	Dry

MWD/ GYRO SURVEY

MD (m)	TVD (m)	Incl. (deg)	Azm (deg)	DLS (°/30 m)	Distance to Plan, m	Above / Below f/ Plan, m	Right / Left f/ Plan, m

PERSONNEL

COMPANY	ON BOARD	ON SITE
GDE	7	
APS	104	
ETI	23	
HALLIBURTON CEMENTING	5	
AERATED	5	
NABORS	3	
IMS	24	
PARAMA DATA UNIT	6	
DYFCO	3	
PRIMA HIDROKARBON	3	
HALLIBURTON SPERRY	4	
TOTAL POB :	197	

COMPANY	ON BOARD	ON SITE
Geologist	1	
JV ADA-APS	3	
NPS / BAKER	4	
VARCO	0	
SMITH	0	
NOV	0	
NMS	0	
LEKOM MARAS	0	
BAKER HUGHES	2	

MUD PUMPS

PUMP NO.		1	2	3
Time	hh:mm			
Slow Speed?	y/n	N	N	N
Liner Lgt/Size	in	12/7	12/7	12/7
Capacity	bbl/stk	0.1429	0.1429	0.1429
Efficiency	95%	0.1357	0.1357	0.1357
Strokes	SPM	80	80	
Flow Rate	gpm	456	456	
Pressure	psi	1,050	1,050	
PRV	psi	2,900	2,900	2,900

HEAVY DUTY EQUIPMENTS ON SITE

VEHICLE	TYPE	HIRED BY	LOCATION	REMARKS
Crawler Crane Kobelco	80T	APS	PPL-04	
Forklift	5T	APS	PPL-04	
Forklift	15T	APS	PPL-06	
Roughter Crane Kato	55T	APS	L/D Area	
Crawler Crane Sumitomo	50T	APS	PPL-04	