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

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OPERATOR	PT. GEO DIPA ENERGI (Persero)	CONTRACTOR	JV ADA - APS	REPORT NO. #	41
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 72,172.64
KB ELEVATION	Meter	11.00	AVERAGE SURFACE RPM / DHM			% AFE / CUMULATIVE COST 88.1%	USD 4,700,930.22
MIDNIGHT DEPTH	Meter	1381	ON / OFF BOTTOM TORQUE	KLBS-FT		DAILY MUD COST	USD 446.00
PROGRESS	Meter	0	FLOWRATE/ SPP	gpm/PSI		CUMULATIVE MUD COST	USD 301,688.02
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. Run wireline logging: Dummy Tools, PT, FPIT. Perform Back Off job.
24 HOURS FORECAST	Perform Back Off job #2. Working pipe. POOH fish
STATUS 05:00 Hrs 6-Aug-22	Inject Aerated with SCFM 1000, on progress

HSE

SAFETY PERFORMANCE		HOURS RECORD		HAZARD MANAGEMENT		EMERGENCY DRILLS	
Nearmiss	1.0	KM Hrs Light Vehicle	360	JSA/HIRA	7	H2S Drill	19-Jun-22
Incidents	1.0	KM Hrs Heavy Equipment	20	PTW	7	BOP Drill/ Kick Drill	26-Jun-22
Last MTI	-	Total Daily Personnel	200	Pre Tour Meeting	2	Fire Drill	7-Jun-22
Last LTI	-	Daily Safe Manhours / Cum Safe Manhours	2,412/703,308	Observation Card	114	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)	0	Hazardous Waste (kg)		Fit for duty / MCU (person)	90
Hazardous Waste/B3 (kg)		Drill Cutting Vol (jumbo bag)	0	Clinic Visit	11
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 Fri, 5-Aug-22

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 - (00:00-02:00 WIB) Inject aerated with SCFM 1000-2000, ADP 1030-2500 psi, SPP 1000-2475 psi, Foam/Corr.Inhibitor 20/10 gph. - By pass aerated pressure and string to zero. - Working on pipe. Apply tension to 250 Klbs, set down weight 125 Klbs. - (02:30-04:00 WIB) Inject aerated with SCFM 1000-2000, ADP 1000-2000 psi, SPP 1000-1970 psi, Foam/Corr Inh : 20/10 gph. - Apply torque to 28.5 Klbs.ft several times.
4:30	7:00	2.5	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	Prepare for Wireline Logging. - R/U Wireline Logging Unit surface equipment. - Install pup joint + SES + FOSV. - P/U Sheave wheel 2 ea (Upper and lower). - PJSM prior Wireline logging job.
7:00	9:00	2.0	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	Run Wireline Logging (Dummy Tools). - RIH Dummy Tools from surface to 1332 mWL. Speed 25 m/min. - POOH Dummy Tools from 1332 mWL to surface. Speed 30 m/min. - Lay down Dummy Tools.
9:00	9:30	0.5	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	Prepare for Wireline Logging (PT Tools). - Function test PT Tools on catwalk. OK.
9:30	12:30	3.0	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	Run Wireline Logging (PT Tools). - RIH PT Tools from surface to 1315 mWL. Speed 30 m/min. @ 210 mWL, Temp 47°C, Pressure 213 psi. @ 400 mWL, Temp 63°C, Pressure 451 psi. Pump 50 gpm through string several times to cooling down tools. @ 620 mWL, Temp 93°C, Pressure 909 psi. @ 800 mWL, Temp 115°C, Pressure 1150 psi. @ 1000 mWL, Temp 148°C, Pressure 1390 psi. Pump 100-50 gpm through string several times to cooling down tools. @ 1315 mWL, Temp 216°C, Pressure 1724 psi. - POOH PT Tools from 1315 mWL to surface. Speed 30 m/min. @ 1080 mWL, Temp 165°C, Pressure 1472 psi. @ 740 mWL, Temp 103°C, Pressure 1040 psi. @ 400 mWL, Temp 72°C, Pressure 613 psi. - Lay down PT Tools. Close FOSV. Pump 50 gpm through string. Pressure up to 1500 psi. Bleed off pressure.
12:30	13:00	0.5	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	Prepare for Wireline Logging (FPIT Tools).
13:00	16:30	3.5	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	Run Wireline Logging (FPIT Tools). - RIH FPIT Tools from surface to 1151 mWL. Speed 30 m/min. - Result FPIT with every depth working pipe 3 x with P/U 225 Klbs, S/O 130 Klbs. @ 1067 mWL. Free 100%. @ 1086 mWL. Free 100%. @ 1151 mWL. Free 100%. - POOH FPIT Tools from 1151 mWL to surface. Speed 30 m/min. - Lay down FPIT Tools.
16:30	18:00	1.5	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	Prepare for Wireline Logging String shoot back-off tool - PJSM prior to Back off job
18:00	20:30	2.5	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	RIH Wireline Logging String shoot back-off tool to 1238 mWL - Apply torque to right 28 Klbs.ft (3 times), - Working on pipe tension 190 Klbs, set down 130 Klbs (6 times) - Reposition String Shoot to 1280 mWL - Apply torque to left 19.5 Klbs.ft. Hold - Working on pipe tension 190 Klbs, set down 130 Klbs (3 times) - Fire at 1280 mWL (Top of Joint 5" HWDP #4) (20:30 hrs), - P/U 220 Klbs, OP : 25 Klbs, Indication no Free
20:30	22:30	2.0	1,381	NPT	11d	Wireline/Slick Line Job Unplanned	POOH Back Off tool from 1280 mWL to surface - String shoot back-off tool All fired - L/D Pup joint + SES + FOSV
22:30	0:00	1.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to Free Stuck Pipe @ 1378 mMD - Drop Object Inspection - Working on Pipe, tension to 350 Klbs, set down to 100 Klbs - Fire jaring up : 46 times, Fire jaring down 0 times Cumm Fire jaring up : 138 times, firing jaring down : 15 times
TOTAL HRS		24.0					

OPERATIONS FOR PERIOD 00:00 TO 05:00 HRS ON **Sat, 6-Aug-2022**

TIME, HH:MM			DEPTH	PT/NPT	CODE	DESCRIPTION	OPERATIONS
START	:00	ELAPSED					
0:00	5:00	5.0	1,381	NPT	2j	Stuck Pipe Include Handling operations	Cont'd Attempt Free Stuck Pipe @1378 mMD - Inject Aerated with SCFM 1000 - 1500, ADP 1000 - 2400 Psi, SPP 1000 - 2300 Psi, Foam/Corr.Inhibitor 20/10 gph. - Working on pipe tension to 250 Klbs, Set down to 180 Klbs - By pass pressure at ADP and SPP to zero - Relax Pipe - Inject Aerated with SCFM 1000, ADP 1063 psi, SPP 939 Psi, Foam/Corr.Inhibitor 20/10 gph.

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 18 hrs/ Cum 50 hrs (5%) - NPT Sperry 0 hrs / Cum 20 hrs (2%) - NPT Wash / Reaming / Backreaming Unplanned 0 hrs / Cum 41.5 hrs (4.2%) - NPT Stuck 6 hrs / Cum 114.5 hrs (11.5%) - NPT Circulate / Condition Mud Unplanned 0 hrs / Cum 1.5 hrs (0.1%) **- NPT Total 24 hrs / Cum 249 hrs (25%)**	**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	1,843
Lost Surface	bbl	
Lost DH	bbl	
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	27000	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	42	42	42	**LGS** %			
PV cP	10	10	10	**600 RPM**	42	42	42
YP lbf/100ft2	22	22	22	**300 RPM**	32	32	32
Gels 10 sec	7	7	7	**200 RPM**	27	27	27
Gels 10 min	10	10	10	**100 RPM**	22	22	22
Fluid Loss mL/30min	10.8	10.8	10.8	**6 RPM**	10	10	10
pH	10	10	10	**3 RPM**	7	7	7

MUD ADDITIVE

Type	Amount
KOH	
XCD	
PAC LV	
KCL	
Corrosion Ring	
Defoamer	
Lubricant	

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	73,813	Rig Engines + Others	4,634	8,000	76,924
		Light Vehicle/ HDE	55		
		Non Rig Bundling	200		
Base Camp	9,350	Engine Basecamp	400	8,000	16,950
Mini Camp	0				
TOTAL	**83,163**	**5,289**		**16,000**	**93,874**

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	6	
APS	105	
ETI	24	
HALLIBURTON CEMENTING	5	
AERATED	5	
NABORS	3	
IMS	24	
PARAMA DATA UNIT	7	
DYFCO	3	
PRIMA HIDROKARBON	3	
HALLIBURTON SPERRY	4	
TOTAL POB :	**200**	

COMPANY	ON BOARD	ON SITE
Geologist	1	
JV ADA-APS	3	
NPS / BAKER	5	
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	