



PT Geo Dipa Energi (Persero)

**DAILY DRILLING REPORT
PT. GEO DIPa ENERGI (Persero)****3-Aug-22**

OPERATOR		PT. GEO DIPa ENERGI (Persero)		CONTRACTOR		JV ADA - APS		REPORT NO. #		39	
WELL/ PAD NAME		PTH-G-4C ST		FIELD		PATUHA		ENVIRONMENT		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		24-33		AFE NUMBER / AFE COST	
RIG POWER		HP		1,500		AVERAGE ROP (24 HRS)		M/HR		17.00	
KB ELEVATION		Meter		11.00		AVERAGE SURFACE RPM / DHM		48-50/144-150		% AFE / CUMULATIVE COST 85.4%	
MIDNIGHT DEPTH		Meter		1381		ON / OFF BOTTOM TORQUE		KLBS-FT		8,6-9,7/-	
PROGRESS		Meter		66		FLOWRATE/ SPP		gpm/PSI		600-605/1015-1290	
PROPOSED TD		Meter		2150		AIR RATE		SCFM		800-2100	
SPUD DATE		25-Jun-22, 12:00		CORR. INHIB./ FOAM RATE		GPH		4-10/6-18		DAY/ NIGHT DRILLING SUPV.	
RELEASE DATE				PUW/SOW/ROTW		KLBS		195/160/137		DRILLING SUPERINTENDENT	
PLANNED DAYS		48		TOTAL DRILLING TIME		HRS		19		RIG SUPERINTENDENT	
DAYS f/ RIG RELEASE				TON MILES				224.0		DRILLING ENGINEER	
								HSE SUPERVISOR			
								HERDEDI			

24 HOURS SUMMARY	DOF to 1381 mMD. Got spike torque at 1381 mMD, got stall then stuck. Attempt to free stuck pipe.
24 HOURS FORECAST	Attempt to free stuck pipe. Continue DOF with aerated mud to casing point est. in 1450-1650.
STATUS 05:00 Hrs	4-Aug-22

HSE							
SAFETY PERFORMANCE		HOURS RECORD		HAZARD MANAGEMENT		EMERGENCY DRILLS	
Nearmiss	1.0	KM Hrs Light Vehicle	188	JSA/HIRA	6	H2S Drill	19-Jun-22
Incidents	1.0	KM Hrs Heavy Equipment	20	PTW	6	BOP Drill/ Kick Drill	26-Jun-22
Last MTI	-	Total Daily Personnel	190	Pre Tour Meeting	2	Fire Drill	7-Jun-22
Last LTI	-	Daily Safe Manhours / Cum Safe Manhours	2,292/698,664	Observation Card	133	Trip Drill	26-Jun-22
Days w/out LTI	305.00	DWLT Since	1-Oct-21	Safety Inspection/ Training	12	Medivac Drill	26-Jun-22

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

ENVIRONMENTAL 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)	7	Clinic Visit	9		
Spill Incidents (barrels)		Other (BB)		Number of Work Related Illnesses			
Enviro/ Community Issue		Cumulative 24 Hrs		Occupational Health Issue			

TIME BREAKDOWN

OPERATIONS FOR PERIOD 00:00 TO 24:00 HRS ON Wed, 3-Aug-22							
TIME, HH:MM			DEPTH	PT/NPT	CODE	DESCRIPTION	OPERATIONS
START	END	ELAPSED					
0:00	1:00	1.0	1,315	PT	5a	Circulate / Condition Mud	Circulation hole clean while working pipe interval 1285-1315 mMD with FR 600-800 gpm, SPP 1030-1100 psi, RPM/M 30/138, TQ 7.7-9.1 Klbs.ft. - After aerated offline. Pressure drop 400 psi from 700-300 psi. Switch mud pump from #2, #3 to #1, #2. Transfer mud from reserve to active. Pressure gradually increase to normal. - Observe dynamic loss. 2 Bpm. Indication foam on active system.
1:00	8:30	7.5	1,381	PT	2a	Drilling Formation	Drill out formation 12.25" Hole with Aerated Mud (Rotate) from 1315 mMD to 1381 mMD/1241 mTVD. Intermittent-Return. - Parameter : WOB 24-33 Klbs, FR 600-605 gpm, SPP 1015-1290 psi, RPM/M 48-50/144-150, TQ 8.6-9.7 Klbs.ft, MW In/Out : 8.7/8.7 ppg, Avg. ROP : 18.2 m/hrs. Temp In/Out : 40/60 deg°C. SCFM 2000-2100, ADP 1040-1340, Foam/Corr.Inhibitor 0-6/0-4 gph. - Bit Hrs : 19.1 hrs. Cum. Bit Hrs : 30.2 hrs. Krev OB/Tot : 215.6/369.2, Cum. Krev.OB/Total : 324.5/577.9 - Mud Motor Hours : 35.8 hrs. Jar Hours : 35.8 hrs. Cum. Jar Hours : 65.2 hrs. - Sweep 50 Bbls Hi-vis after connection, 50 Bbls every joint, 100 Bbls while stand down. - Lithology @ 1372 mMD : Lithic coarse pyroclastic Last MeB @ 1369 mMD : 22 %. - Last survey : Depth 1318.31 mMD, 1191.7 mVD, Inc 38.92 deg, Azm 251.07 deg, CtoC : 15.59 m, 3.52 m below, 15.19 m left of plan. Distance to mother well CtoC = 29.09 m. Distance to PTH-G-4B = 246.65 m, DLS : 0.31 BHT : 65 @ 1373 mMD. P/U-R/W-S/O : 195/160/137 Klbs. - Drilling break @ 1369-1370 mMD.
8:30	9:30	1.0	1,381	NPT	2j	Stuck Pipe Include Handling operations	- Initially got spike torque at 1381 mMD with TQ reading 14-17 Klbs.ft. - String stall at 1381 mMD with TQ reading to 23.4 Klbs.ft. - Pressure increase from 910 psi to 2480 psi. Flow return on MFO ADA decrease from 20% to no return. - Assumed string got pack off and stuck at 1381 mMD.
9:30	17:00	7.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Attempt to free the stuck pipe at 1381 mMD with various combination. - Inject aerated gradually from SCFM 1500-2200, ADP 2420-2700 psi, Foam/Corr.Inhibitor 6-18/4-10 gph. - Apply tension to 260 Klbs, set down weight to 150 Klbs. Unsuccessful. - Give Tension until 230 Klbs (Heating up) (09:30 - 13:00 hrs) - Inject aerated with 1500-2700 Psi, SCFM 1000, Foam/ Corr Inh : 18/10 gph, (13:00 - 14:30 hrs). Apply tension to 265 Klbs, set down to 150 Klbs. Apply torque to string until 28 Klbs.ft 10 times. Got return at shaker after 30 minute inject aerated (return until 50%), Temp out : 35 deg C. Stop Injected aerated and by pass Pressure at String to 1050 Psi. - Pump thru string with mud ± 25 bbl, w/ 100 gpm, Pressure at string from 1050 Psi to 2000 Psi (14:30 - 14:45) - Inject aerated with ADP 2100-2700 Psi, SCFM 1000, Foam/Corr Inh : 18/10 gph, (14:45 - 14:55) Aerated tendency can't inside thru string, stop inject and by pass string Pressure to 230 Psi. - Working on pipe tension 350 Klbs, set down 80 Klbs (14:45 - 17:00 hrs) Fire jaring up : 42 times, Fire jaring down : 15 times. Progress : 140 cm. Apply torque to string until 28 Klbs.ft
17:00	22:30	5.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Relax pipe set down to 150 Klbs (1 hrs) while drop inspection object. - Efficiency Test MP #2 and MP #3 : 89.6% and 89.3 % - Heating up : give tension to 225 Klbs (18:00 - 22:30 hrs) - Clean out gumbo box - Got Return at Shaker 15 minute (return until 50%) (22:00 hrs)
22:30	23:00	0.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Attempt to free stuck Pipe @ 1381 m - Pump thru string with mud ± 30 bbl, w/ 100 gpm, Pressure from 1230 psi to 300 Psi, tendency drop - Inject Aerated with ADP 1000 - 2500 Psi, SCFM 800 - 1500, Foam/Corr Inh : 18/10 - No return - Stop Inject aerated, by pass pressure at string to zero
23:00	0:00	1.0	1,381	NPT	2j	Stuck Pipe Include Handling operations	Continue Heating up : give tension to 225 Klbs
TOTAL HRS		24.0					

OPERATIONS FOR PERIOD 00:00 TO 05:00 HRS ON Thu, 4-Aug-2022									
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	Cont'd Attempt free stuck Pipe @1378 m - Working on pipe tension to 280 Kilbs, set down to 100 Kilbs - Inject Aerated with ADP 1000 - 2500 Psi, SCFM 1000 - 1500, Foam/Corr Inh : 18/10 (00:30-01:30) - No return - Stop Inject aerated, by pass pressure at string to zero - Apply torque to 28 Kilbs.ft (3 times) - Pump Mud + Lubricant 3% thru string 25 bbl, back to slug 9 bbl		
3:30	5:00	1.5	1,381	NPT	2j	Stuck Pipe Include Handling operations	Working on pipe tension to 400 Kilbs, Set down to 50 Kilbs, Fire jar up : 48 times, Fire Jar down : 3 times (Cumm Fire Jar up : 90 times, Fire Jar down : 18 times)		
GENERAL COMMENTS							SIGNATURE		
Progress activity : 51% Estimated Mud Loss (24 Hrs) : ± 202 Bbls. Estimated Cumulative Mud Loss : ± 22544 Bbls Estimated Water Loss (24 hrs) : ± 0 Bbls. Estimated Cumulative Water Loss : ± 274501 Bbls. Record NPT - NPT Rig Bundling 0 hrs / Cum 21.5 hrs (2,3%) - NPT Wireline/ Slick Line Job Unplanned 0 hrs/ Cum 32 hrs (3.4%) - NPT Sperry 0 hrs / Cum 20 hrs (2.1%) - NPT Wash / Reaming / Backreaming Unplanned 0 hrs / Cum 41.5 hrs (4.4%) - NPT Stuck 15.5 hrs / Cum 84.5 hrs (8.9%) - NPT Circulate / Condition Mud Unplanned 0 hrs / Cum 1.5 hrs (0.1%)							REPORTED BY	ACKNOWLEDGED BY	APPROVED BY
							KETUT D Y DRILLING SUPERVISOR	NISAR JAHRI RIG SUPERINTENDENT	AKHMAD RYAN SURYANSYAH PROJECT MANAGER PATUHA 2

BIT RECORDS			BHA #12			BHA #13			CASING			
	10	11							Last Size	in	13-3/8	
Bit Number	8 NB	8 RR							Set MD	m	1,026	
Bit Size	12 1/4	12 1/4							Set TVD	m		
Bit Run	11	12	TCI Bit	12 1/4	0.33	TCI Bit	12 1/4	0.33	Last FIT EMW	ppg	11.51	
Manufacturer/Type	Baker/VM-S30DX2	Baker/VM-S30DX2	8" SperryDrill Lobe 6/7-	8	8.88	8" SperryDrill Lobe	8	8.82	Next Size	in	10-3/4	
IADC Code	TCI 537	TCI 537	8" Float Sub c/w Float Valve	8	0.65	8" Float Sub c/w Float Valve	8	0.65	Lost Set MD	m	1,650	
Jets /32 in	2x32, 1x28	2x32, 1x28	11-1/2" Integral Blade	8	2.15	11-3/4" Integral Blade	11 3/4	2.32	TOL	m		
Serial #	5321639	5321639	8" NMDC	8	9.34	8" NMDC	8	9.34				
Depth In	0.0	1,154.0	8" EM Repeater Sub	8	0.91	8" EM Repeater Sub	8	0.91	MUD VOLUMES			
Depth Out	1,154.0		8" EM Antenna Sub	8	0.95	8" EM Antenna Sub	8	0.95	Start	bbl	2,099	
Meterage	72.0	47.0	3x8" DC	8	28.13	3x8" DC	8	28.13	Lost Surface	bbl		
Bit Hours	11.12	19.10	X/O	8	0.47	X/O	8	0.47	Lost DH	bbl	202	
TFA	2.172	2.172	1x6.5" DC	6 1/2	9.33	1x6.5" DC	6 1/2	9.33	Dumped	bbl		
Tot Krev On Bttm	108.9	215.60	9x5" HWDP	5	84.13	9x5" HWDP	5	84.13	Built	bbl	202	
Tot Krev	208.7	369.2	Sledgehammer Jar	6 1/2	6.33	Sledgehammer Jar	6 1/2	6.33	Ending	bbl	2,099	
Dull Grade In	New	1-1-WT-A-E-I-NO-BHA	16x5" HWDP	5	150.41	16x5" HWDP	5	150.41				
Dull Grade Out	1-1-WT-A-E-I-NO-BHA								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		
			Total		302.01		Total	302.12				
CUMULATIVE		CORROSION RING			BOP TEST			GAS				
Meterage	m	Install Date			Release Date			Location			Max. Gas	-
Bit Hours	Hrs	1			1			7-Jul-22			Conn. Gas	-
ROP	m/Hr	2			2						Trip Gas	-
		DRILLING FLUID			MUD ADDITIVE			HYDRAULIC				
Mud Type		Active Tank			Active Tank			Type	Amount	Annular Vel	m/min	
Time	HH:MM	KCL Polymer	KCL Polymer	CI	mg/l	29000	29000	30000	KOH	Pb	psi	
MW in	ppg	8.7	8.7	K	mg/l	27940	27400	28000	XCD	15	Sys HHP	
MW out	ppg	8.7	8.7	MBT	lb/bbl				PAC LV	14	HHPb	
Temp in	degC	40	30	Sand	%	0.1	0.1	0.1	KCL	5	HSI	
Temp out	degC			Solid Content	%	2	2	2	Corrosion Ring		% psi bit	
Pres. Grad	psi/ft			Retort Water	%	98	98	98	Defoamer	1	Jet Velocity	
Funnel Visc	sec	43	46	HGS	%				Soda Ash	3	Impact force	
PV	cP	10	12	LGS	%						IF/area	
YP	lb/100ft2	22	23	600 RPM		42	47	46			Type	
Gels	10 sec	7	11	300 RPM		32	35	35			Amount	
Gels	10 min	11	15	200 RPM		27	29	28				
Fluid Loss	ml/30min	10.8	10.6	100 RPM		22	20	19				
pH		10	10	6 RPM		10	12	12				
				3 RPM		7	9	9				
FUEL RECORD												
Fuel Tank Location		0			Usage (liters)			Received (liters)		On H& (liters)		
Rig		71,237			Rig Engines + Others			16,000		75,159		
Base Camp		2,150			Light Vehicle/ HDE							
Mini Camp		0			Non Rig Bundling					1,750		
TOTAL		73,387			Engine Basecamp			16,000		76,909		
WEATHER												
TEMP (°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	COMPANY		ON BOARD	ON SITE	MUD PUMPS				
GDE		7		Geologist		1		PUMP NO.				
APS		101		JV ADA-APS		4		Time				
ETI		23		NPS / BAKER		0		Slow Speed?				
HALLIBURTON CEMENTING		5		VARCO		0		Liner Lgt/Size				
AERATED		3		SMITH		0		Capacity				
NABORS		24		NOV		0		Efficiency				
IMS		7		NMS		0		Strokes				
PARAMA DATA UNIT		3		LEKOM MARAS		0		Flow Rate				
DYFCO		3						Pressure				
PRIMA HIDROKARBON		4						PRV				
HALLIBURTON SPERRY		190										
TOTAL POB :												
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							