te Name	C002		Hole Name	C0024		Mission No. :	CK1	Long. 136	47" 23.9464"E			70.0 mBRT	RT-MS	L: <u>28.5</u> m	Report No. :	10	154 Mar/2019
Depth Depth	@06:00	4,739.0 4,739.0 of Operation	_	i9.0 mbsf i9.0 mbsf Mar :		ogress : 49.5 AST CASING :	_m ole at 4.79	×	g/Underreaming mbsf(eam up & do	n	nBRT)	Last BOP PT: Last BOP FT: POOH to 4,1	80mBRT Pr	Nex	t BOP PT: t BOP FT: Glycol 35gal Inj.	-	_
Pre Ti	sent Operat	ion @ 06:00	on 10 24:00 on	-Mar : 9-Mar		repeat log at 3,8			sam up u uo	wii. Conduc			oombiti.it	beat log. Lust	mBRT: meter below r mbsf: meter below se		
rom 0:00	To 2:30	Hrs 2:30	Code OTHER	4,688.5	Reaming	g up and down fro	om 4,656r	nBRT to 4,6	388.5mBRT		Detail						
			. .		Obs	am up and down serve drag 150kN	at 4,6//-	4,6/4mBR	I and 4,669n	nBR1. Aπer	reaming tu	II stand for 3 ti	mes, SPP at	I.11sg). nd ECD decrea	ise to 9.9MPa and	1.052sg.	.
					Stop	np 10m3 of swee p pump and relea	ise torque	 Apply ove 	rpull 400kN a	and confirm	string free.	PU and string	packed off a	again at 4,671r	nBRT. PU overpul	200kN an	d confirm st
:30	3:00	0:30	DRL	4,695.5	Drill 8-1/2		n 4,688.5ı	mBRT to 4,6	695.5mBRT ((Vessel mov	e 1.5m/10r	nin toward to I	DP/RGR con	P from 13.3MP stacted direction	a to 11.2MPa. n for RGR rotation	smoothly)	
:00	3:30	0:30	OTHER	4,695.5	Take sur	B: 0-20kN, HPS: rvey #21											
-20	6.00	2.20		4 700 0	Perf	form NSD conne	ction. Ves	sel move to	ward to oppo	osite way fro	m DP/RGF	contacted po	sition and st	op vessel 12m	away from well ce	nter. R rotation	
:30	6:00	2:30	DRL	4,728.0	WO	e to drill 8-1/2" LV B: 0-40kN, HPS:	110rpm x	0-16kNm, \$	SPP:540gpm	x 13.3MPa.	Set Auto o	driller:21m/hr,	Pump sweep	3m3 x 3times	per stand(SPP:11	.8MPa the	n back to n
:00	7:30	1:30	OTHER	4,728.0	Obs	serve Torque and g up and down fro	SPP incr	easing at 4.	,728mBRT (E	CD: 1.17sq).	ase to 1.005s	y. Resulte u	I IIIII g and ECC	decrease to 1.05	asy with th	illing down.
.00				7,720.0	Rea	g dp and down it am up and down i P fluctuate while i	full stand	with 450-54	0gpm x 10.9	-18MPa, 80-	-110rpm x	4-20kNm.	to 1 00ea		• • • • • • • • • • • • • • • • • • • •		••••••
:30	7:45	0:15	DRL	4,735.0	Continue	to drill 8-1/2" LV B: 0-20kN, HPS:	VD hole fr	om 4,728m	BRT to 4,735	mBRT (Ves	ssel move 1	.5m/10min to	ward to DP/F	RGR contacted	direction for RGR	rotation sn	noothly)
45	8:15	0:30	OTHER	4,735.0	Take sur	rvey #22 e full stand prior											
:15	8:45	0:30	DRL	4,739.0	Perf	form NSD conne	ction. Ves	sel move to	ward to oppo	osite way fro	m DP/RGF	R contacted po	sition and st	op vessel 12m RGR contacted	away from well ce direction for RGR	nter. rotation sn	noothly)
					WO! Pres	B: 0-60kN, HPS: ssure increase to	110rpm x 13.3MPa	0-22kNm, s gradually a	SPP:420gpm and ECD incr	x 10.0MPa. rease from 1	Set Auto o	driller:21m/hr.	· · · · · · · · · · · · · · · · · · ·				
45	11:45	3:00	OTHER	4,739.0	Reaming	g up and down fro am up and down	m 4,731r	nBRT to 4,7	739mBRT						• • • • • • • • • • • • • • • • • • • •		••••••
					Pun	np 5m3 of sweep cide to finish drillin	mud and	sweep out	with 150gpm	ı x5.4MPa, b	out no impro	ovement.					
					Atte Rep	empt to increase peat pressurize to	oump rate 6.4MPa	to conduct with 30rpm	down link, be and bleed of	ut unable to f to zero for	increase to 3 times, bu	540gpm due it no improven	nent. Then ra	ick back #14 N	SD stand.	~~~~~	
:45	12:30	0:45	TRIP	4,739.0	POOH 8- Rea	i-1/2" LWD assen am up w/85rpm x	nbly from 7-26kNm	4,731mBR1 and 150/20	T to 4,692mB 00/250/300gp	RT (Meanw om x 5.1/7.0/	hile, break /8.2/11.2MF	NSD sub from Pa	NSD stand	at Aux well)			
2:30	13:00	0:30	TRIP	4,739.0	Obs POOH 8	serve high torque i-1/2" LWD assen	and pres nbly from	sure. Not at 4,692mBR	ble to conduc T to 4,655mB	t downlink d RT (Meanw	lue to press hile, break	sure much high NSD sub from	her than befo n NSD stand	ore while drillin at Aux well)	g: NG. Rack back	#13 NSD s	tand
					Rea	am up w/80rpm x I,655mBRT, atter downlink for che	2-19kNm	and steppin	ng increase p	oump rate 50	0/100/150/2	200gpm x 2.0/3	3.2/4.3/5.6M	Pa	0gpm x 9.0/11.2/1	2.0/13.6/1	5.7/17.7MP
:00	14:15	1:15	OTHER	4,739.0	Pun	np off and shot a	irgun x 10	times w/CN	IC on.								
٠٠٠٠	ļ			ļ	Wor	rk pipe w/0-60gpi	n x 0-5.61	MPa, overpi	ull 250kN x 9	times and 6	00-650kN >	5times, confi	rm pipe beco	me free w/650	check pipe free. Pi kN overpull.	pe stall >2	6kNm:NG
:15	14:45	0:30	TRIP	4,739.0	Rea	i-1/2" LWD asser am up w/30rpm x	5-12kNm	and steppin	ng increase p	oump rate 15	50/200/250	gpm x 3.5/4.6/	6.7MPa.				
					Pres	serve SPP not sta ssure too high an	d not able	to increase	e pump rate.						ь.вмРа		
:45	15:15	0:30	TRIP	4,/39.0	Wip	-1/2" LWD assen	eam up a	nd down w/	100rpm x 3-2	0kNm and 1	nile, break 100gpm x 3	NSD sub from 3.3-4.0MPa. (d	n NSD stand Irag 50-100k	at Aux well) N)			
:15	15:45	0:30	TRIP	4,739.0	POOH 8	serve pressure st I-1/2" LWD asser	nbly from	4,568mBR	T to 4,535mB	RT (Meanw					5/0 0MD- /d 2	0.50(4))	
					Obs	er trip 1time w/R serve SPP not sta	ble, pres	sure increas	se continuous	sly from 8.0	MPa to 9.11	MPa, then incr	ease rotation	ougpm x 3.2/6 speed to 80rg	.5/8.UMPa. (drag 3 om x 15-26kNm bu	u-sukin) t pressure	not decrea
:45	16:15	0:30	TRIP	4,739.0	POOH 8	duce pump rate to	nbly from	4,534mBR	T to 4,496mB	RT (Meanw	hile, break	NSD sub from	NSD stand	at Aux well)			
					Rea	ounter stall out > am up w/80rpm x	3-11kNm	and steppin	ng increase p	oump rate 10	00/150/200	/250/300/350g	pm x 2.7/3.5	/4.5/6.1/7.1/8.	4MPa (drag 30-10))kN)	
:15	17:00	0:45	TRIP	4.739.0	Wor	ile adjusting mud rk pipe 1time w/o i-1/2" LWD assen	verpull 25	0kN and co	nfirm pipe be	ecome free.	Continue to	ream up w11	10rpm x 8-13	kNm and no p	ump.		
). 13				4,735.0	PU t	to 4,417mBRT w 4,417mBRT, atter	/no screw	in(drag 0-2	200kN) Find r	no pack off in	ndication in	Unit C.			Confirm praecura	etable:∩K	•••••
:00	19:30	2:30	OTHER	4,739.0	Conduct	downlink at 4,41	7mBRT								Commin pressure	atable.Orc	
					Con	np off and shot a nduct downlink fo nduct downlink fo	r Seismic	continuous	mode: Succes	esses	TOGPIII X 12	a and d	Jillim algital				
9:30	20:30	1:00	TRIP	4,739.0	Run 8-1/	2" LWD assemblem 4,417mBRT to	y from 4,4	117mBRT to	o 4,477.5mBl	RT	none bigh	drag/20 100k	NI)				
						om 4,440mBRT to		Attemp	t to pass 4,4	40mBRT se	veral times	, but difficult to	lowering do	wn w/o rotatio	n.		
••••					1	om 4,450mBRT to		Stop pi	ump due to h	igh drag obs	serve 200-2	250kN. Susper	ct hole very	sticky.	••••••		• • • • • • • • • • • • • • • • • • • •
0:30	24:00	3:30	TRIP	4 739 0	ļ	-1/2" LWD assen		Attemp	t to pass sev	eral times 4	,477.5mBF	RT but not suc			nection)		
					(Fro	om 4,477.5mBRT om 4,457mBRT to	to 4,457r	nBRT) Rea	m up w/80rpi	m x 6-25kNr	n and no pi	ump (drag 100)-180kN)				
					(Fro	om 4,418mBRT to	4,168mE	BRT) PU w/	no screw in (drag 0-10kN	1)				.5-12.5MPa, Auto	driller set 1	8m/hr. Ong
					<hy< td=""><td>/draracker> Find Hydrarack</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Sur</td><td>vey data (Dep</td><td>th: Telescope sens</td><td>or depth) Azi</td><td></td></hy<>	/draracker> Find Hydrarack							Sur	vey data (Dep	th: Telescope sens	or depth) Azi	
					<dg< td=""><td>GR&RGR></td><td></td><td></td><td></td><td></td><td></td><td></td><td>#2</td><td>(mBRT)</td><td>(deg) 8.43</td><td>(deg) 264.38</td><td>3</td></dg<>	GR&RGR>							#2	(mBRT)	(deg) 8.43	(deg) 264.38	3
					<oti< td=""><td>Magnus effect a Continue to ma her> Conduct F.0</td><td>bunker</td><td>ing 251.3m</td><td>by NuStar e 3 from 14:22</td><td>ngineer to 17:08</td><td></td><td></td><td>#2</td><td>2 4,716.26</td><td>9.02</td><td>265.80</td><td>)</td></oti<>	Magnus effect a Continue to ma her> Conduct F.0	bunker	ing 251.3m	by NuStar e 3 from 14:22	ngineer to 17:08			#2	2 4,716.26	9.02	265.80)
rom	me Breakdo To	wn (00:00 - Hrs.	06:00 on Code	10-Mar Depth(mBRT)) *The	e data on 00:00 - 06:0	0 is unofficia	al.				of Operation					
:00 :15	3:15 4:30	3:15 1:15	TRIP	4,739.0 4,739.0	POOH 8-	repeat log from 4 1-1/2" LWD assen	nbly from	4,130mBR	T to 3,885mB	RT (Check :	shot while I	POOH at midd	lle of stand a	nd while conne	ection)		
:30	6:00	1:30	LOG	4,739.0	Conduct	repeat log from	3,885mBF	RT to 3,867	nBRT w/540	gpm x 11.9N	MPa, Auto o	driller set 25m	/hr. Confirm	seabed depth a	at 3,870mBRT fron	n logging o	lata.
S	@24:00 ize in) M	FR Ty		ADC S/	No. No.	Depth (mBRT)	Meter- age	Hrs.	WOB (kN) Min. Max.	rpm Min. Max.	Total Rev. (krev)	ROP (m/hr) Inn	er Outer Dull	Dull Conditio	n	D.D. R
		nith MDi516			3594 2×110	3,870.0	4,739.0	869.0	35.27	0 90	30 120	213.54	22.5	ei Odiei Duii	Luc. B		J.D. IN
Recor	1 @24:00 LWD	8-1/2" Bit x F	AicroScope (875 x arcVisio	ın675 x TeleS	Scope675 x SonicScope 2 IF) (1std) x 6-1/2"Jar	675 x seismi	:Vision675 x X0	O#1 x float sub (nx	on-ported sub) x	XO#2				Hook Wt. (knt) @24:0 Hook Load	0 4,	168.0 mE
	•	x p-3/4" DC	→ Ir) (2stds	, x ∧U#3 x 6-	214 DC (4-1/2	ie) (18td) x 6-1/2"Jarx	o-3/4' DC (1	ыа) x XO#4 x 5	no mWDP (3stds)						BHA Below HWDP below Jar		27
	ties @24:00	Depth		I _{ni} I		el St. Apr. Co.				MBC Tem	p		Loc FIT	20/40 (mm)	HPS & Traveling bloc Hook + RRT	K	62
i Type veep	Time 10:00	(mBRT) Act#4	MW VIS 1.36 52	PV YV 22 16	6rpm (10'	11 API Cake	pH Pf	CI- Sar	nd Oil Solid	MBC In	Out K+	n K 0.66 0.62	LGS 0 m	20/40 (mm) in 5min	Hook block Jar Rotating time 24:0		
				Ш	007"				$\pm \pm \overline{\pm}$	1.001-		fuelle (1	Today 16.50 Cutting skip @24:00	Total 1	23.50 h
Line		PM GI	Pr		@97% i. Vel. (min)	Personnel @24:00 CDEX MQJ Crew	8 101	Item Barite (Bulk)	ls on Board @24	Received	Used	(unit: kg) Stock 185,000	0		Empty 2 ROV @24:00	Full 1	To
		54 27	0	5"DP	5.5*DP	MWJ Scientist	101 15 18	Barite (Bulk) Caustic Soda Lime	3			1,050 200	-		Status Last Dive		-
ogic I	6* nformation (0 (@24:00		54	60	MQJ (Other) Telnite	1	Soda Ash Caustic Pota				575 1,075		Heli Information	Injection Skid		-
rom	То	L	ithology of	cuttings	\dashv	Geoservices SLB LWD	4	Tel-Polymer XCD-Polyme	DX/L/H			2240 / 0 1,200		Fit. No. A	Time rrived Depar		Passenger Are. De
					\dashv	SLB Seismic SLB WL SLB Cementing	0	Lignate NC Clean Lube \ Tel Clean W	N			4,500 8,000 4,600		1 0 2 3	9:25 09:3	1	0 2
e Sha	ker / Centrifu 30, 60	ige @24:00	30, 60	#1-#3 Cent	trifuge	AFGlobal Nustar	2	Tel Clean W Astex-S Deformer 30	c			4,600 4,400 480		4	nd other information		\perp
	30, 60 30, 60	No.5	30, 60 30, 60	#1-#3 Cent running t	ime	Franks NOV	0	Tell DD Bi-Carbonate	-			3,200 300		Incident	Last Incident	No.	LTA
erials 3	Stock on Boa em	unit St	ock U		eived	INPEX (Trainee)	2	Citric Acid Tan Cal C / N	A/F			1,900 210 / 1,020	/ 510	LTA HUNS cards	24		
h Wat		m3 2	55.3 31.8	3.9	49.1 46.8		\Box	Telnite GXL Treat-HS				504 6,940		Remarks			
Water		m3 2,1	10.3 10.3		0.0 251.3	Total	161	Mud Seal P Tel Plug C / I		$=$ \mp		130 500 / 500 / 500 / 26					
	WC*	Ltrs	0.0 60.0	0.0 0.0	0.0 0.0 0.0	Mud volume@24:00 Mud Volume (n Sweep mud (1.34-1.39)	13)	Tel Stop P / Barolift Driscal D	G (lbs)			500 / 26 1,890 0		Marine Informa	tion @24:00		
e, Oil Fuel		ton 1	30.0	0.0	0.0	Fracseal(1.39sg,11ppb Fracseal(1.39sg,18ppb	192	Driscal D Tel Flow P Poro Seal				0		Marine Informa Heave (m) Pitch (deg)	uon (2)24:00		0.3 0.4
Fuel nent "C						Fracseal(1.25sg,30ppb	109	Steel Seal 50	0 (lbs)			1,000		Roll (deg) Vessel Heading	ı (dea)		0.1
Fuel nent "C nent "C	nation @24:		- 1	Time @Chik	γu	Barolift	30	KCI	- 1			0					070
e, Oil Fuel nent "C nent "C nent "C Meiji-	nation @24: maru	Status Chikyu			yu	Barolift STOPLOSS(1.37)	47	NaCl Fracseal	(lbs)			0		Riser Tension (V.D. Load (ton)	kN)		12433
e, Oil Fuel nent "C nent "C t Informoat Na Meiji- incho-	nation @24: nme maru maru	Status						NaCl	(lbs)			0		Riser Tension (kN)		
Fuel ent "C ent "C Informost Na Meiji- incho-	nation @24: maru	Status Chikyu	Dep			STOPLOSS(1.37) total Wind	1391	NaCl Fracseal Stopseal Bentonate(B	(lbs)	d(s) 2000 d	Current (knt) Dir. (0 0 0 46,000	ibility	Riser Tension (V.D. Load (ton) Max Draught (r	kN)		- 12433 9.0