



WATER BASED MUD Daily Operation Report

Date	2/10/2023	Section name	8 1/2" Section					
Report	10	Report Depth	m	1243	MDBRT	1213		TVDBRT
Rig Name / #	469	Prev Report Depth	m	609	MDBRT	609		TVDBRT
Mud Ops start date		Daily metres drilled	634	Report time	23:59			Hr
Spud date		Section metres drilled	634	Avg ROP	27.6	m/hour		
RT-Ground Level	m	Report time activity	Drilling					

OPERATOR	Tamboran Resources	CONTRACTOR	H & P	
REPORT FOR	Maurice Verkerk	REPORT FOR	Joseph Stowell	
WELL NAME AND No.	Amungee NW 3H	FIELD	LOCATION	STATE
		EP 117	Beetaloo Basin	Northern Territory

BHA	BIT TYPE	JET SIZE	DEPTHS/CASING	MUD VOLUME (BBL)	CIRCULATION DATA			
BIT SIZE (") 8.5	PDC Bit - Ultterra	12 12 12 13 13 13 0 0 0 0	22.00 Riser Length m	HOLE VOL 292	MUD INHOLE 252	PUMP SIZE 6 x 11 Inches	CIRCULATION PRESS 2000	psi
DRILL PIPE SIZE (") 5.5	TYPE DP	LENGTH 1,097 m	Conductor @ 0 m	Active Pits 396	Reserve Pits 517	PUMP MODEL Gardner-Denver	% EFFICIENCY 97	SURFACE TO BIT 6 min
DRILL PIPE SIZE (") 5.5	TYPE HW	LENGTH 32 m	18.625 Surface @ 84 m	TOTAL CIRCULATING VOL 648		BBL / STK 0.0933	STK / MIN 154	BOTTOMS UP 9 min
DRILL COLLAR SIZE (") 6.65	6.5	LENGTH 25 89 m	13.375 Intermediate @ 280 m	STORAGE TANKS 0		BBL / MIN 14.37	GAL / MIN 604	TOT CIRC TIME 45 min
			9.625 Prod. or LNR @ 605 m			ECD ppg/sg	10.53	1.26

MUD PROPERTIES										MUD PROPERTY SPECIFICATIONS					
SAMPLE FROM	FL			Pit		FL		FL		Mud Wt	9.6-9.8	Yld Pt	>14	API Loss	<=12
MUD TYPE	CL H			CL H		CL H		CL H		pH	8.5-9.5	MBT	<10	Solids	:=3%
TIME SAMPLE TAKEN	2:30			8:15		14:45		21:00		<div>MUD COMMENTS</div> <div>Add Sodium Bicarb to prevent contamination to the mud as cement being drilled. Run desilter and centrifuge for 3 hours approximately to knock down mud weight from 10.1 ppg to 9.8 ppg. Build 186 bbls Premix with 9.5 pp to dilute mud system and maintain volume. Treated active system with 0.5 ppb Newzan D to increase 6 rpm and 1.8 ppb Cleanrol to reduce fluid loss. Will add Lime to the Active system to reduce progressive gels strenght and Mf as shown on Mud Check #4</div>					
DRILLING FLUID TEMPERATURE °C (In/Out)	42	45	49	52	52	55	54	58							
TOTAL MEASURED DEPTH (TMD) Metres	654			783		945		1167							
INCLINATION (Deg)	12.4			13.65		17.9		17.39							
WEIGHT ppg / SG	9.8	1.17	9.9	1.19	10.0	1.20	9.9	1.19							
FUNNEL VISCOSITY (sec / qt) API	38			42		42		50							
RHEOLOGY 600 : 300 RPM 120 °F / 49 °C	30	22	59	43	56	40	48	35							
RHEOLOGY 200 : 100 RPM 120 °F / 49 °C	18	13	36	27	35	26	30	22							
RHEOLOGY 6 : 3 RPM 120 °F / 49 °C	5	4	9	7	8	6	8	6							
PLASTIC VISCOSITY cP @ 120 °F / 49 °C	8			16		16		13							
YIELD POINT (lb / 100 ft ²) 120 °F / 49 °C	14			27		24		22							
GEL STRENGTH (lb / 100 ft ²) 10sec/10min/30min	4	9	10	7	17	24	7	18	23						
LOW SHEAR RATE VISCOSITY (LSRV)	3			5		4		4							
n K (lb / 100 ft ²)	0.45	1.35	0.46	2.50	0.49	1.94	0.46	2.04	<div>OPERATIONAL COMMENTS</div> <div>Continue drilling cement and a shoe track from 583 m to to 612 m, 3 m new formation. Circulate till shakers clean and perform FIT with 10.1 ppg mud with EMW = 16.1 ppg (press = 623 psi). Drill ahead 8-1/2" hole rotate (40-60 rpm) and slide to 1243 m at midnight report. Drilling parameters: WOB 15-28, GPM 600, DIFF 400, Tq 4-10 K</div>						
API FILTRATE (cm ³ / 30 min.)	13.4			10.1		10.0		9.8							
HPHT FILTRATE (cm ³ / 30 min.) °F / °C															
API : HPHT (Cake / 32nd in.)	1			1		1		1							
pH	10.5			9.5		9.5		8.5							
ALKALINITY MUD (Pm)	1.20			0.45		0.50		0.10							
ALKALINITY FILTRATE (Pf / Mf)	0.66	1.3	0.30	1.2	0.40	1.4	0.06								
CHLORIDE (mg / L)	50000			50000		50000		52000							
TOTAL HARDNESS AS CALCIUM (mg / L)															
SULPHITE(mg / L) / CaCO3 (ppb)		10.0						10.0							
KCL / K2CO3/ K2SO4															
K + (mg / L)	0			0		0		0							
PHPA (ppb)															
METHYLENE BLUE CAPACITY (ppb / % by vol)	5.0	0.6	5.0	0.6	7.5	0.8	7.5	0.8	<div>Water Source</div> Water Bore						
BENTONITE ADDED (ppb / % by vol)		0.0		0.0		0.0		0.0							
OTHER PRODUCTS ADDED (ppb / % by vol)									<div>MUD ACCOUNTING (BBLs)</div> <div>FLUID BUILT</div> <div>FLUID LOSSES</div> <div>Start Vol</div> <div>1140</div>						
OTHER LIQ PRODUCTS ADDED (ppb / % by vol)															
Glycol % v/v	1.2			1.2		1.2		1.2		Drill Water	170	S.C.E.	161	Received	0
OIL (% by Vol)	0.0			0.0		0.0		0.0		Chemical	16	Discharge	0	Backload	0
TOTAL WATER (% by Vol)	91.5			90.0		89.5		91.0		Sump/SeaW	0	Downhole	0	Built	186
TOTAL SOLIDS (% by Vol)	8.5			10.0		10.5		9.0		Other Rec'd	0	Tripping	0	Lost sub	0
SAND (% by Vol)	0.1			0.2		0.2		0.1		Other Built	0	Other	0	Lost srf	161
TOTAL MUD ON RIG (bbls) : 1165															

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT				Time Breakdown	
Product	UnitSize	Start	Received	Used	Close	Type	Hrs	OF	UF	Analysis Item	Hrs
CleanTrol HD	22.7Kg	784	0	44	740	Centrifuge 1	3	9	18.5	Drilling	23
NewZan D	25Kg	285	0	12	273					Circulation	1
Sodium Bicarbonate	25Kg Sack	60	0	12	48						
AvaGlyco LC	208Ltr	82	0	3	79						
Idcide-G50	20Ltr	73	0	3	70	Shale Shaker #1	4x170	24			
CaCl2 - Prills - bb	1000Kg	175	0	2	173	Shale Shaker #2	4x170	24			
						Shale Shaker #3	4x170	24			
						SOLIDS ANALYSIS					
						Salt %	2.9	HGS %	2.2	Turbidity (NTU)	0
								LGS %	3.9	TSS %	0
						Corrected Solids %	6.1	Drilled Solids%	2.8	Conduct. (uS/cm)	
										DO mg/l	0
						CURRENCY		DAILY COST		CUMULATIVE COSTS	
						AUD		\$16,980.00		\$102,937.50	



DAILY MUD VOLUME ACCOUNT

Date

:

2/10/2023

Report No:

:

10

Well Name:

:

Amungee NW 3H

Operator

:

Tamboran Resources

FLUID BUILT		DAILY	CUMULATIVE	FLUID LOSSES:		DAILY	CUMULATIVE
Premix drill water		170 bbl	11641 bbl	Losses Attributed To Shakers:		85 bbl	300 bbl
Chemical Volume added		16 bbl	123 bbl	Losses To Centrifuge:		9 bbl	32 bbl
Sump recycled water				Losses To Desander/Desilter:		67 bbl	179 bbl
Seawater				Losses To Cutting Dryer/Mud Cleaner:			
Other Received on Rig				Losses To Tripping:			
Other Built				Discharged:			
TOTAL BUILT:		186 bbl	11764 bbl	Other Surface Losses:			
				Surface Losses Subtotal:		161 bbl	511 bbl
WHOLE MUD TRANSFERS ON/OFF		DAILY	CUMULATIVE	Seepage Losses:			
				Lost Circulation:			
DAILY BACKLOADED:		0		Lost Behind Casing/Left Downhole:			
DAILY RECEIVED:		0	770	Other Sub-Surface Losses:			
Cuttings Volume:				Sub-surface Losses Subtotal:		0 bbl	10337 bbl
				TOTAL DISPOSED:		161 bbl	10848 bbl
				Interval losses (bbl/m) :		2	20

TANK STORAGE VOLUMES						
Tank Volumes (bbls)						
Tank Name	Tank Status	Current	Capacity	MW (ppg)	MW (sg)	Comments
Sandtrap	Active	24	77	9.85	1.18	CleanTroll HD
Degasser	Active	17	77	9.85	1.18	CleanTroll HD
Desilter	Active	17	77	9.85	1.18	CleanTroll HD
Backflow	Active	17	77	9.85	1.18	CleanTroll HD
Tank#1	Active	56	100	9.85	1.18	CleanTroll HD
Tank#2	Active	56	100	9.85	1.18	CleanTroll HD
Tank#3	Active	69	100	9.85	1.18	CleanTroll HD
Suction#1	Active	52	100	9.85	1.18	CleanTroll HD
Suction#2	Active	52	100	9.85	1.18	CleanTroll HD
Suction#3	Reserve	32	100	9.8	1.17	CleanTrol HD
Slug	Reserve	85	100	9.4	1.13	CleanTrol HD
T/T-1	Active	18	35	9.85	1.18	CleanTrol HD
T/T-2	Active	18	35	9.85	1.18	CleanTrol HD
Frac Tank-1	Reserve	400	450	10.6	1.27	CaCl2 Brine
Frac Tank-2	Reserve	0	450	10.3	1.23	CleanTroll HD
Frac Tank-3	Reserve		450			

VOLUME SUMMARY:		+	-
Starting Volume:		1140	
Current Tank Volume:		396	
Mud Volume In Hole(Incl Ri		252	
Other Volume In Hole:			
Riser Volume:			
Total Hole Volume:		292	
Total Built:		186	
Total Storage:			
Total Reserve:		517	
Total Disposed:			161
Whole Mud Backloaded:			
Whole Mud Received:			
TOTAL MUD AT RIGSITE		1165	bbls
VOLUME BREAKDOWN			
FLUID TYPE VOLUME BREAKDOWN 24hr Consumption			
CACL2 BRINE	400		
CLEANTROL HD	153		
CLEANTROLL HD	360		

Daily Inventory

Report No: 10

Well: Amungee NW 3H

Report Date: 2/10/2023

Product	Unit Size	Start Amnt	Daily Rec'd	Cumul Rec'd	Daily Used	Cumul Used	Daily B'Load	Cumul B'Load	Final Stock
Alpine Spotting Beads	50lb	252		252					252
Ancor 1 (190 Lt)	190Ltr	24		24					24
AvaGlyco LC	208Ltr	82		87	3	8			79
Barite BB 1.5MT	1500Kg	16		20		4			16
Barite BB 1.5MT - Darwin	1500Kg	41		53		12			41
CaCl2 - Prills - bb	1000Kg	175		195	2	22			173
Caustic Soda	25Kg Drum	40		42		2			40
Citric Acid	25Kg Sack	138		138					138
CleanTrol HD	22.7Kg	784		829	44	89			740
DEFOAM AP 400	25Ltr	50		50					50
Desco CF	25lb	16		16					16
Dynafiber AP Fine	11.34Kg	246		246					246
Dynafiber AP Medium	11.34Kg	283		288		5			283
Dynafibre AP Coarse	11.34Kg	48		48					48
Idcide-G50	20Ltr	73		80	3	10			70
JK-161 LV	25Kg	77		85		8			77
KCL (L)	1000Kg Bulk Bag	24		31		7			24
Lime 25 Kg	25Kg	38		38					38
Magnesium Oxide	20Kg Sack	362		374		12			362
NDFT 325	208Ltr	7		7					7
NewPac LV 25 Kg	25Kg	153		180		27			153
NewSeal 25	25Kg	119		119					119
NewZan D	25Kg	285		323	12	50			273
Omyacarb 2 (bb)	1000Kg	75		75					75
Omyacarb 5 (bb)	1000Kg	18		18					18
Radiagreen EME	175Ltr	20		20					20
Salt 1000 Kg BB	1000Kg	4		4					4
SAPP	25Kg Sack	48		48					48
Soda Ash	25Kg Sack	48		48					48
Sodium Bicarbonate	25Kg Sack	60		64	12	16			48
Sugar	25Kg Sack	21		37		16			21
TEA (230 KG)	230Kg	22		22					22
TrueScav HD	25Kg	55		63		8			55
Zinc Oxide 25 Kg	25Kg	21		21					21