

MUD REPORT

RIG 40 SMIPEN

AMC FLUIDS AND PRODUCTS				DRILLING MUD REPORT NO. 01						
AMC FLUIDS AND PRODUCTS <small>an Imdex Limited company</small>				DATE: 25-Feb-2014		ACTIVITY: Vertical CBM				
				SPUD DATE: 23-Feb-14		RIG No. 1236				
OPERATOR: Tristar				CONTRACTOR : Mitchell Energy Services		REPORT FOR : Gene Anderson				
REPORT FOR : Gene Anderson				REPORT FOR : Gene Anderson		TOWN: Perdrka Basin				
WELL NAME : New Crown 1				COUNTRY : Australia		STATE: NT				
DRILLING ASSEMBLY		CASING		MUD VOLUME M3/bbls		ANNULAR VELOCITY				
BIT SIZEmm/in	12.25	JET SIZE	4x16	3x18	Hole: 8.5m3	PITS:23.7/149	PUMP SIZE X IN. 6.5 x 7			
PIPE SIZE	3.5	LENGTH	2x6.5		Tatal Circulation Vol: 17/107		PUMP, PN500 ASS EFF 97 % CIRC PRESSURE, 4200psi			
HEAVY WT	9 x 6.5	LENGTH			IN STORAGE	WEIGHT 8.7	STR / MIN 95 LTR / MIN, 330 BOTTOMS UP (Min)			
COLLAR	3x8-9x6.5	LENGTH	TYPE	LENGTH	MUD TYPE	Bentonite/Pac	M ³ / MIN, .330 GAL / MIN, 73 TOTAL CIRC TIME, 52MIN			
MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS						
Sample From				WEIGHT 8.5 - 9ppg		VISCOSITY 40-50 sec/946ml				
Time Sample Taken				FILTRATE: <20						
FLOWLINE TEMP c'				FLUID SUMMARY						
DEPTH IN METRES				Partial loss of circulation experianced. Used Fracseal blended into existing drilling fluid, slowing pump rate down to expose loss zone more to the product and we regained full circulation Gels and PV and YP up due to the Aus-Gel Xtra This section apart from some partial lost circulation issues was easily drilled with minimum amout of mud additives. Slowly letting Viscosity come down as cuttings were to wet, (controlling fluid loss)						
Weight SP G PPG*										
FUNNEL VISCOSITY sec										
PLASTIC VISCOSITY CP										
YIELD POINT LBS/100SQ FT										
GEL STRENGTH 10SEC/10MIN										
FILTRATE API HALF AREA										
CAKE THICKNESS 32nd inch										
HPHT FILTRATE										
SOLIDS (calc) (retort)										
LIQUID CONT %/VOL OIL/WATER				OPERATION SUMMARY						
SAND CONT %/VOL										
METHYLENE BLUE										
pH Strip Meter x										
ALKALINITY MUD PM										
ALKALINITY FILTRATE (PF/MF)										
ALTERNATE ALKALINITY (P1/P2)										
CHLORIDE (Mg/L)										
TOTAL HARDNESS (Mg/L)										
HARDNESS AS CALCIUM (Mg/L)										
HARDNESS AS MAGNESIUM (Mg/L)										
KCL %				Waiting for casing gear, slowly working pipe low pump rate until gear arrives.						
PRODUCT	Aus-Gel X	Pac R	Pac L					Claydoctor	Soda Ash	Fracseal C
INVENTORY										
STARTING INVENTORY	130 Sacks	33 Sacks	51 Sacks					34 Sacks	11 Sacks	40 sacks
Cost/Sack	\$21.90	\$220.00	\$211.50					\$193.95	\$39.50	\$76.00
UESD LAST 24HRS	20sack	3sacks	6sacks					2sacks	1 sack	12 sacks
CLOSING INVETORY	110	30	45					32	10	28
COST LAST 24HRS	\$438	\$660.00	\$1,269					\$387.90	\$39.50	\$912.00
AMC Prepared by Boyd Connelly						DAILY COST	CUMMULATIVE COST			
						\$3,706.40	\$3,706.40			
Phone No +61 488 225 072										

MUD REPORT

RIG 40 SMIPEN

AMC FLUIDS AND PRODUCTS					DRILLING MUD REPORT NO. 02					
AMC FLUIDS AND PRODUCTS <small>an index limited company</small>					DATE: 28-Feb-2014		ACTIVITY: Vertical CBM			
					SPUD DATE: 23-Feb-14		RIG No. 10			
OPERATOR: Tristar			CONTRACTOR : Mitchell Energy Services			REPORT FOR : Gene Anderson			TOWN: Perdrka Basin	
REPORT FOR : Gene Anderson			WELL NAME : New Crown 1			COUNTRY : Australia			STATE: NT	
DRILLING ASSEMBLY			CASING		MUD VOLUME M3/bbls		ANNULAR VELOCITY			
BIT SIZE	Emm/in	12.25	JET SIZE	4x16	3x18	Hole: 8.5m3	PITS:23.7/149	PUMP SIZE X IN.	6.5x7	
PIPE SIZE	3.5	LENGTH			Tatal Circulation Vol:		PUMP PN500	ASS EFF % 97	CIRC PRESSURE, 4200psi	
HEAVY WT	9 x 6.5	LENGTH			IN STORAGE	WEIGHT 8.7H	STR/MIN, 95	LTR / MIN 330	BOTTOMS UP (Min)	
COLLAR	3x8-9x6.5	LENGTH	TYPE	LENGTH	MUD TYPE	Bentonite/Pac	M ³ / MIN .330	GAL / MIN 73	TOTAL CIRC TIME(MIN)	
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS					
Sample From			□ □ T □ □ T		WEIGHT 8.5 - 9ppg		VISCOSITY 40-50 sec/946ml		FILTRATE: <20	
Time Sample Taken			8am		FLUID SUMMARY					
FLOWLINE TEMP			30 c'		conditioning hole with sweeps to control weathered sandstones Keeping viscosity at a lower point to keep cuttings dry, Gels strenghts are cut back to allow for faster settlement to save on dilution rate. Pre treated sand trap and active prior to drilling out cement.					
DEPTH IN METRES			120							
Weight	SP G	PPG	8.7Hppg							
FUNNEL VISCOSITY			46							
PLASTIC VISCOSITY CP			8							
YIELD POINT LBS/100SQ FT			10							
GEL STRENGTH 10SEC/10MIN			*6/8							
FILTRATE API HALF AREA			4							
CAKE THICKNESS 32nd inch			.3mm							
HPHT FILTRATE			N/A							
SOLIDS (calc) (retort)			0.05 inert 2%		OPERATION SUMMARY					
LIQUID CONT %/VOL OIL/WATER			99.95		Not far from starting the intermediate section					
SAND CONT %/VOL			0.05% inert 1%							
METHYLENE BLUE			15							
pH	Strip	Meter x	10							
ALKALINITY MUD PM			0.1							
ALKALINITY FILTRATE (PF/MF)			.03/.1							
ALTERNATE ALKALINITY (P1/P2)			/							
CHLORIDE (Mg/L)			2000							
TOTAL HARDNESS (Mg/L)			320							
HARDNESS AS CALCIUM (Mg/L)			120							
HARDNESS AS MAGNESIUM (Mg/L)			200							
KCL %			N/A							
PRODUCT	Aus-Gel X	Pac R	Pac L	Claydoctor	Soda Ash	Fracseal C	Resi-Drill	K2SO4	Defoamer/ Sod Bicarb	
STARTING INVENTORY	110 Sacks	30 Sacks	45 Sacks	32 Sacks	10 Sacks	28 sacks	336 sacks	432 sacks	5 cubes	48 sacks
Cost/Sack	\$21.90	\$220.00	\$211.50	\$193.95	\$39.50	\$76.00	\$118.00	\$38.20	\$193.50	\$39.75
UESD LAST 24HRS	0sack	4sacks	3sacks	2sacks	1 sack	12 sacks	14 sacks	50 sacks	1cube	1sack
CLOSING INVENTORY	110	26sacks	42 sacks	30 sacks	9 sacks	16 sacks	322 sacks	382 sacks	4 cubes	47 sacks
COST LAST 24HRS	\$0	\$880.00	\$635	\$387.90	\$39.50	\$912.00	\$1,652.00	\$1,910.00	\$193.50	\$39.75
AMC Prepared by Boyd Connelly								DAILY COST \$6,649.65		CUMMULATIVE COST \$10,356.05
								Phone No +61 488 225 072		


MUD REPORT

RIG 40 SMIPEN

AMC FLUIDS AND PRODUCTS					DRILLING MUD REPORT NO. 3							
AMC FLUIDS AND PRODUCTS <small>an Imdex Limited company</small>					DATE: 02-March-2014							
					SPUD DATE: 23-Feb-14		ACTIVITY: Vertical CBM					
OPERATOR: Tristar			CONTRACTOR : Mitchell Energy Services			RIG No. 10						
REPORT FOR : Gene Anderson			REPORT FOR : Gene Anderson			TOWN: Perdrka Basin						
WELL NAME : New Crown 1			COUNTRY : Australia			STATE: NT						
DRILLING ASSEMBLY		CASING		MUD VOLUME M3/bbls		ANNULAR VELOCITY						
BIT SIZEmm/in	12.25	JET SIZE	4x16	3x18	Hole: 18.5m3	PITS:23.7/149	PUMP SIZE X IN. 6.5x7					
PIPE SIZE	3.5	LENGTH			Tatal Circulation Vol: 29.5		PUMP PN500 ASS EFF % 97 CIRC PRESSURE, 4200psi					
HEAVY WT	9 x 6.5	LENGTH			IN STORAGE	WEIGHT 8.7H	STR/MIN, 95 LTR / MIN 330 BOTTOMS UP (Min)					
COLLAR	3x8-9x6.5	LENGTH	TYPE	LENGTH	MUD TYPE	Bentonite/Pac	M ³ / MIN .330 GAL / MIN 73 TOTAL CIRC TIME(MIN)					
MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS								
Sample From				WEIGHT 8.5 - 9ppg		VISCOSITY 40-50 sec/946ml		FILTRATE: <20				
Time Sample Taken				FLUID SUMMARY								
FLOWLINE TEMP				keeping mud conditioned in case we go to mud in the production zone. extra gel and frac seal sweeps were run due to the amount of sandy Formations within the winton formation. Keeping the filtrate down with the Pac-L was to stop the sloughing with in the clay matrix in the sandstone, and mud stones. the claydoctor profided a higher reate of encapsulation to keep dispersion rate down and to keep the YP under control and gel stenghts down, this save on dumping and diluting. The hole stood up well with this system.								
DEPTH IN METRES												
Weight SP G PPG												
FUNNEL VISCOSITY												
PLASTIC VISCOSITY CP												
YIELD POINT LBS/100SQ FT												
GEL STRENGTH 10SEC/10MIN												
FILTRATE API HALF AREA												
CAKE THICKNESS 32nd inch												
HPHT FILTRATE												
SOLIDS (calc) (retort)				OPERATION SUMMARY								
LIQUID CONT %/VOL OIL/WATER				Waiting, on air being connected up to the rig, circulating off bottom. Intersected coal seam early at 544m wiper fulsh pull out of hole.								
SAND CONT %/VOL												
METHYLENE BLUE												
pH Strip Meter x												
ALKALINITY MUD PM												
ALKALINITY FILTRATE (PF/MF)												
ALTERNATE ALKALINITY (P1/P2)												
CHLORIDE (Mg/L)												
TOTAL HARDNESS (Mg/L)												
HARDNESS AS CALCIUM (Mg/L)												
HARDNESS AS MAGNESIUM (Mg/L)												
KCL %												
PRODUCT INVENTORY												
		Aus-Gel X	Pac R	Pac L	Claydoctor	Soda Ash	Fracseal C	Resi-Drill	K2SO4	Defoamer/ Sod Bicarb		
STARTING INVENTORY		110 sacks	26sacks	42 sacks	30 sacks	9 sacks	16 sacks	322 sacks	382 sacks	4 cubes 47 sacks		
Cost/Sack		\$21.90	\$220.00	\$211.50	\$193.95	\$39.50	\$76.00	\$118.00	\$38.20	\$193.50 \$39.75		
UESD LAST 24HRS		18 sack	3 sacks	14 sacks	3 sacks	1 sack	16 sacks	34 sacks	30 sacks	1cube 1sack		
CLOSING INVENTORY		92 Sacks	23 sacks	28 sacks	27 sacks	8 sacks	0 sacks	288 sacks	352 sacks	3 cubes 46 sacks		
COST LAST 24HRS		\$394	\$660.00	\$2,961	\$581.85	\$39.50	\$1,216.00	\$4,012.00	\$1146.00	\$193.50 \$39.75		
AMC Prepared by Boyd Connelly									DAILY COST \$11,243.60		CUMMULATIVE COST \$21,599.65	
									Phone No +61 488 225 072			

MUD REPORT

RIG 40 SMIPEN

 AMC FLUIDS AND PRODUCTS <small>an Imdex Limited company</small>				DRILLING MUD REPORT NO. 4	
				DATE: 05-March-2014	
OPERATOR: Tristar				CONTRACTOR : Mitchell Energy Services	
REPORT FOR : Gene Anderson				REPORT FOR : Gene Anderson	
WELL NAME : New Crown 1				COUNTRY : Australia	
				STATE: NT	
DRILLING ASSEMBLY		CASING		MUD VOLUME M3/bbls	
ANNULAR VELOCITY					
BIT SIZE	6 1/8	JET SIZE		Hole: AIR	PITS:
PIPE SIZE	3.5	LENGTH		Total Circulation Vol:	PUMP Air
HEAVY WT	9 x 6.5	LENGTH		IN STORAGE	WEIGHT
COLLAR	9x6.5	LENGTH	TYPE	MUD TYPE	Air (Chipping)
				M ³ / MIN .	GAL / MIN
				TOTAL CIRC TIME(MIN)	
MUD PROPERTIES			MUD PROPERTY SPECIFICATIONS		
Sample From			WEIGHT		VISCOSITY
Time Sample Taken			FILTRATE:		
FLOWLINE TEMP			FLUID SUMMARY		
DEPTH IN METRES			<p>Starting air drilling. Intersected coal seam early. Drilled out cement with water, proformed FIT.....</p> <p>A foam mist was made up to help lift the coal seam water. At 582 mtrs the well bridged and the hole indicated it was unstable. so a stiff foam of Bio-degradeable product were added to the system, these products are of a netural charge and are not detrimental to the coal seam and had to be used to prevent the hole collapse. At this depth the air and superfoam had no trouble lifting the coal seam water.</p> <p>Lost circulation was lost at 640, hole bridged and lost all air to formation the formation, increased mist foam and uphole velocity to correct.</p>		
Weight SP G PPG					
FUNNEL VISCOSITY					
PLASTIC VISCOSITY CP					
YIELD POINT LBS/100SQ FT					
GEL STRENGTH 10SEC/10MIN					
FILTRATE API HALF AREA					
CAKE THICKNESS 32nd inch					
HPHT FILTRATE					
SOLIDS (calc) (retort)					
LIQUID CONT %/VOL OIL/WATER			OPERATION SUMMARY		
SAND CONT %/VOL			<p>Storing 40m3 of drilling fluid in case the well has to be killed. proceed to 1000m, concerns we have not got enough air from about 930m being we should have approx 1400psi to lift at 1000m. Continue to monitor hole conditions.</p> <p>Circulating pressure was monitored closley and weight on bit was increased this did increase ROP, without effecting the stability of the well.</p>		
METHYLENE BLUE					
pH Strip Meter x					
ALKALINITY MUD PM					
ALKALINITY FILTRATE (PF/MF)					
ALTERNATE ALKALINITY (P1/P2)					
CHLORIDE (Mg/L)					
TOTAL HARDNESS (Mg/L)					
HARDNESS AS CALCIUM (Mg/L)					
HARDNESS AS MAGNESIUM (Mg/L)					
KCL %					
PRODUCT INVENTORY					
	Xan-Bore		Bio-Vis		Superfoam
STARTING INVENTORY	2		15		32
Cost/Sack	\$275.00		\$139.00		\$105.75
UESD LAST 24HRS	1		1		1
CLOSING INVETORY	1		14		31
COST LAST 24HRS	\$275		\$139		\$105.75
AMC Prepared by Boyd Connelly				DAILY COST \$519.75	
				CUMMULATIVE COST \$21,599.65	

MUD REPORT

RIG 40 SMIPEN

AMC FLUIDS AND PRODUCTS <small>an Imdex Limited company</small>				DRILLING MUD REPORT NO. 5	
				DATE: 06-March-2014	
OPERATOR: Tristar				CONTRACTOR : Mitchell Energy Services	
REPORT FOR : Gene Anderson				REPORT FOR : E Gene Anderson	
WELL NAME : New Crown 1				COUNTRY : Australia	
DRILLING ASSEMBLY				ANNULAR VELOCITY	
BIT SIZE mm/in 6 1/8		JET SIZE		Hole: Air	
PIPE SIZE 3.5		LENGTH		Tatal Circulation Vol:	
HEAVY WT 9 x 6.5		LENGTH		IN STORAGE	
COLLAR 9x6.5		LENGTH		MUD TYPE Air (Chipping)	
MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS	
Sample From		MUD PROPERTIES		WEIGHT	
Time Sample Taken		6am 4.00pm		VISCOSITY	
FLOWLINE TEMP				FLUID SUMMARY	
DEPTH IN METRES 750m 750m				<p>Drilling overnight , as we gained depth the air pressure was increased to the lifting of cuttings and water, increasing air pressure is putting alot of pressure on the formation, but hole remains stable. Slugging superfoam directly down the rod string to supply a foam slug. This was to help lift cuttings accumulating down hole and to help lift formation water in aid to lower hydrostatic head pressure. And rotation torque which was climbing during every pipe, due to the head of water and the lack of air lift. To clear 100% of the cuttings slugs were a must.</p> <p style="text-align: center;">OPERATION SUMMARY</p> <p>On standby due to excess ground water and limited storage space on surface. Discussing options with Tristar. New ground pits being excavated for formation water.</p>	
Weight SP G PPG					
FUNNEL VISCOSITY					
PLASTIC VISCOSITY CP					
YIELD POINT LBS/100SQ FT					
GEL STRENGTH 10SEC/10MIN					
FILTRATE API HALF AREA					
CAKE THICKNESS 32nd inch					
HPHT FILTRATE					
SOLIDS (calc) (retort)					
LIQUID CONT %/VOL OIL/WATER					
SAND CONT %/VOL					
METHYLENE BLUE					
pH Strip Meter x					
ALKALINITY MUD PM					
ALKALINITY FILTRATE (PF/MF)					
ALTERNATE ALKALINITY (P1/P2)					
CHLORIDE (Mg/L)					
TOTAL HARDNESS (Mg/L)					
HARDNESS AS CALCIUM (Mg/L)					
HARDNESS AS MAGNESIUM (Mg/L)					
KCL %					
PRODUCT INVENTORY		Xan-Bore		Bio-Vis	
STARTING INVENTORY		1		14	
Cost/Sack		\$275.00		\$139.00	
UESD LAST 24HRS		0		1	
CLOSING INVETORY		1		13	
COST LAST 24HRS				\$139	
				Superfoam	
				31	
				\$105.75	
				2	
				29	
				\$211.50	
AMC Prepared by Boyd Connelly				DAILY COST \$350.50	
				CUMMULATIVE COST \$21,950.15	

MUD REPORT

RIG 40 SMIPEN

AMC FLUIDS AND PRODUCTS <small>an Imdex Limited company</small>				DRILLING MUD REPORT NO. 6	
				DATE: 07-March-2014	
OPERATOR: Tristar				CONTRACTOR : Mitchell Energy Services	
REPORT FOR : Gene Anderson				REPORT FOR : Gene Anderson	
WELL NAME : New Crown 1				COUNTRY : Australia	
DRILLING ASSEMBLY				ANNULAR VELOCITY	
CASING		MUD VOLUME M3/bbls		PUMP SIZE X IN. 1100x350 cfm	
BIT SIZEmm/in	6 1/8	JET SIZE		Hole: AIR	PITS:
PIPE SIZE	3.5	LENGTH		Tatal Circulation Vol:	PUMP Air
HEAVY WT	9 x 6.5	LENGTH		IN STORAGE	WEIGHT
COLLAR	9x6.5	LENGTH	TYPE	MUD TYPE	Air (Chipping)
				M ³ / MIN . GAL / MIN	
				TOTAL CIRC TIME(MIN)	
MUD PROPERTY SPECIFICATIONS					
Sample From		<input type="checkbox"/> A <input type="checkbox"/> T <input type="checkbox"/> A <input type="checkbox"/> T		WEIGHT	
Time Sample Taken		9.30pm 5.00am		VISCOSITY	
FLOWLINE TEMP				FILTRATE:	
DEPTH IN METRES		910 960		FLUID SUMMARY	
Weight SP G PPG				Drilling on after water issue resolved, at 930m, starting to have trouble lifting seam water and cuttings, pull back 2 rods and clear the well run in and drill when flushed back to bottom this continued to 960m when there was not enough air to lift water and cuttings,	
FUNNEL VISCOSITY					
PLASTIC VISCOSITY CP					
YIELD POINT LBS/100SQ FT					
GEL STRENGTH 10SEC/10MIN					
FILTRATE API HALF AREA					
CAKE THICKNESS 32nd inch					
HPHT FILTRATE					
SOLIDS (calc) (retort)					
LIQUID CONT %/VOL OIL/WATER					
SAND CONT %/VOL					
METHYLENE BLUE					
pH Strip Meter x					
ALKALINITY MUD PM					
ALKALINITY FILTRATE (PF/MF)					
ALTERNATE ALKALINITY (P1/P2)					
CHLORIDE (Mg/L)					
TOTAL HARDNESS (Mg/L)					
HARDNESS AS CALCIUM (Mg/L)					
HARDNESS AS MAGNESIUM (Mg/L)					
KCL %					
OPERATION SUMMARY					
call TD at 960m.					
PRODUCT INVENTORY					
INVENTORY	Xan-Bore	Bio-Vis	Superfoam	Aus-det Xtra	
STARTING INVENTORY	1	14	31	15	
Cost/Sack	\$275.00	\$139.00	\$105.75	\$75.00	
UESD LAST 24HRS	0	0	3	2	
CLOSING INVETORY	1	14	28	13	
COST LAST 24HRS			\$317.25	\$150.00	
AMC Prepared by Boyd Connelly				DAILY COST	CUMMULATIVE COST
				\$467.25	\$22,066.90