

Table 6.2 Pressure data

Tool	Depth (mRKB)	Depth (m msl)	Hydrostat. Pressure (bara)	Flow time (min)	Formation Pressure (bara)	Comments
MDT Quartz	2388.5	2363.46	323.09	1.8	246.07	Stabilized
	2389.4	2364.43	323.04	2.0	246.08	Stabilized + water sample
	2388.4	2363.43	-	-	245.95	Stabilized + gas sample
	2392.0	2367.02	323.56	1.7	246.32	Stabilized
	2395.8	2370.79	324.09	6.9	246.81	Stabilized
	2401.0	2376.04	324.79	2.1	247.21	Stabilized
	2404.1	2379.11	325.19	2.0	247.52	Stabilized
	2406.1	2381.13	-	-	247.73	Stabilized + water sample
	2431.1	2406.08	328.48	1.7	250.24	Stabilized
	2434.0	2409.03	328.87	1.4	250.54	Stabilized
2438.8	2413.80	329.51	1.4	251.05	Stabilized	
RFT Strain	2438.7	2413.7	328.7	3.5	250.6	Stabilized
	2434.0	2409.0	328.2	4.0	250.1	Stabilized
	2431.0	2406.0	327.7	2.0	249.8	Stabilized
	2406.0	2381.0	324.0	-	247.2	Stab.+Water sample (Run 2)
	2406.0	2381.0	324.4	3.0	247.2	Stabilized
	2404.0	2379.0	324.1	3.0	247.0	Stabilized
	2401.0	2376.0	323.7	2.5	246.8	Stabilized
	2395.7	2370.7	322.9	3.5	246.3	Stabilized
	2392.0	2367.0	322.4	5.0	245.9	Stabilized
	2389.5	2364.5	322.0	-	245.8	Strain g. questionable
2389.5	2364.5	322.2	5.0	245.6	Stab.+Gas sample (Run 1)	
RFT Quartz	2438.7	2413.7	-	-	-	Quartz gauge failed
	2434.0	2409.0	-	-	-	Quartz gauge failed
	2431.0	2406.0	326.4	2.0	250.4	Stabilized
	2406.0	2381.0	322.8	-	247.8	Stab.+Water sample (Run 2)
	2406.0	2381.0	323.1	3.0	247.8	Stabilized
	2404.0	2379.0	322.8	3.0	247.6	Stabilized
	2401.0	2376.0	322.3	2.5	247.3	Stabilized
	2395.7	2370.7	321.6	3.5	246.8	Stabilized
	2392.0	2367.0	321.0	5.0	246.4	Stabilized
	2389.5	2364.5	320.6	3.0	246.1	Stabilized
2389.5	2364.5	-	-	-	Failed + Gas sample (Run 1)	

Table 6.3 Fluid sampling

Depth (mRKB)	Depth (m msl)	Tool Name/ Run No.	Sample No. of total	Chamber Volume	PVT Bottles	Bottle No.	Fluid	Comments
2389.5	2364.5	RFT#1	Sample 1 of 2	1 gal	640 cc	TS-9502	gas	Composition
			"	"	640 cc	TS-9710	gas/water	
			Sample 2 of 2	2 3/4 gal	-	-	filtrate?	
2406.0	2381.0	RFT#2	Sample 1 of 2	1 gal	640 cc	TS-9503	water	Water analysis
			Sample 2 of 2	6 gal	-	-	water	
2389.4	2364.4	MDT#1	Sample 1 of 1	450 cc	640 cc	TS-9507	water	
2388.4	2363.4	MDT#1	Sample 1 of 3	2 3/4 gal	20000 cc	A-15985	gas	PVT analysis Geochemistry
			Sample 2 of 3	450 cc	640 cc	TS-9703	gas	
			Sample 3 of 3	1 gal	640 cc	-	gas	
			"	"	640 cc	TS-5910	gas	
			"	"	640 cc	TS-9717	gas	
			"	"	640 cc	TS-9501	gas	
2406.1	2381.1	MDT#1	Sample 1 of 4	1 gal	4000 cc	Z-13004	water	Water analysis
			Sample 2 of 4	1 gal	4000 cc	Z-13402	water	
			Sample 3 of 4	1 gal	1000 cc	-	water	Water analysis
			"	"	1000 cc	TS-9103	water	
			"	"	1000 cc	TS-6203	water	
			"	"	1000 cc	TS-6213	water	
			Sample 4 of 4	450 cc	640 cc	TS-9715	water	Geochemistry

Contents

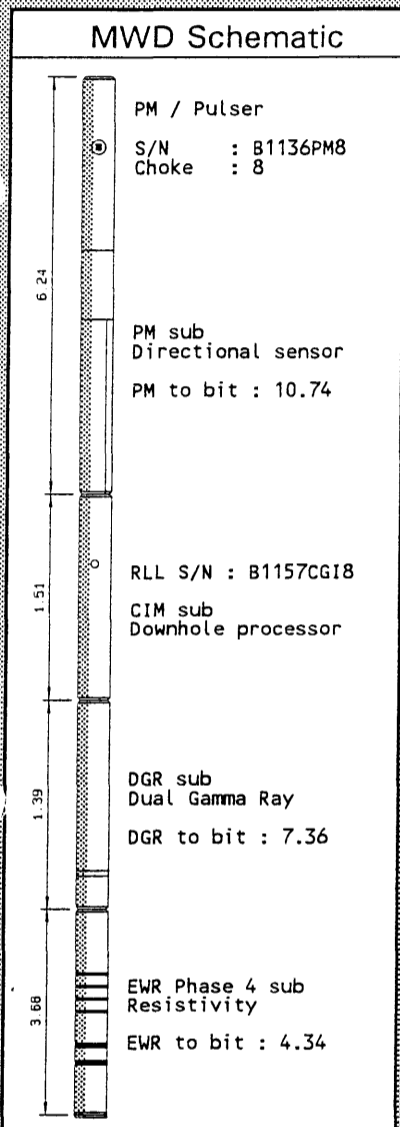
1. GENERAL INFORMATION
2. OPERATIONAL OVERVIEW
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5. SURVEY DATA
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BA-95-1868-1

Section 4. : MWD BIT RUN SUMMARIES

Bitrun Summary

MWD Run Time Data	Drilling Data	Mud Data
MWD Run : 01	Start Depth: 298.0 m	Mud type : SEAWATER
Rig Bit : 02	End Depth : 900.0 m	Weight/Visc: 1.08 / 100.0
Hole Size: 12.00 in	Footage : 602.0 m	Chlorides : 0
Run Start: 05:30 29-JUN-95	Flow Rate : 1500.00 lpm	PV / YP : 20 / 17
Run End : 05:45 30-JUN-95	R.P.M. : 110	Solids/Sand: 0.0 / 0.00
BRT hrs : 24.25	W.O.B. : 6 T	%Oil/ O:W : 0 / 0 :100
Circ.hrs : 1.92	R.O.P. : 39 m/hr	
Oper.hrs : 24.43	S.P.P : 135 bar	



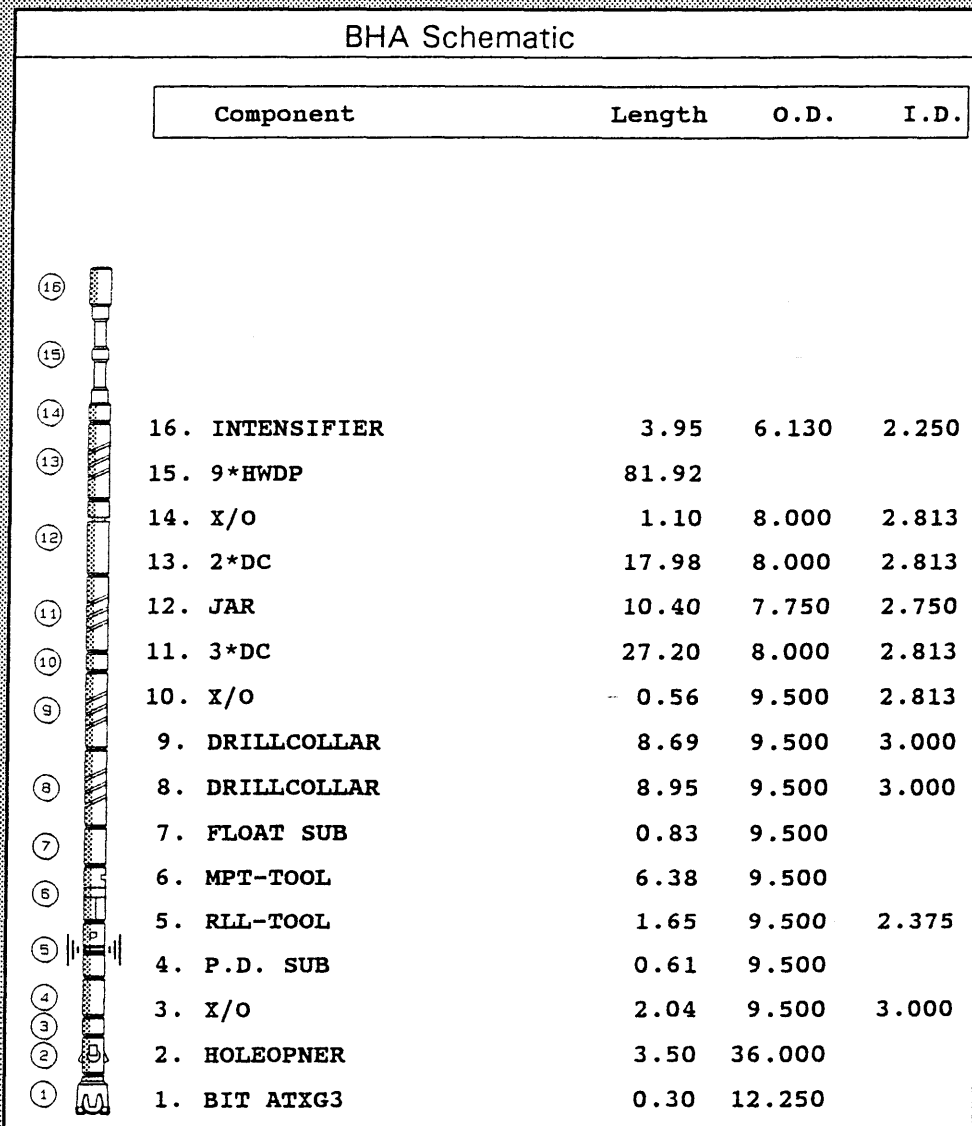
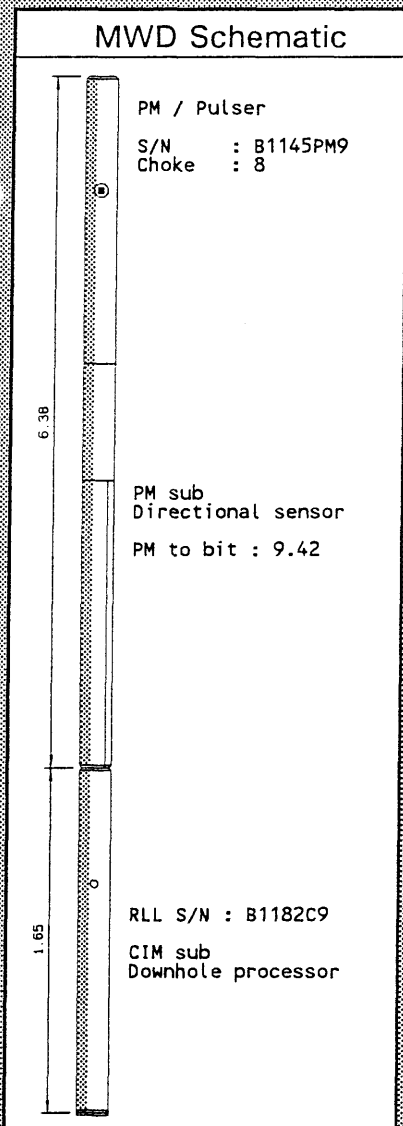
BHA Schematic

Component	Length	O.D.	I.D.
13. 6 x HWDP	54.50		
12. INTENSIFIER	3.95		
11. 9 x HWDP	81.92		
10. 2 x 8" DRILLCOLLAR	17.98	8.000	2.810
9. JAR	10.40	7.750	2.750
8. 5 x 8" DRILLCOLLAR	54.43	8.000	2.810
7. FLOAT SUB	0.92	8.000	2.750
6. MPT-TOOL	6.24	8.000	
5. RLL-TOOL	6.58	8.000	1.920
4. PIN-PIN CROSSOVER	0.66	8.000	2.880
3. PRESSURE DROP SUB	0.89	8.000	1.560
2. BIT SUB	0.99		
1. BIT AT163	0.30	12.000	

Comments	MWD Performance
DRILLED 12" PILOT HOLE. NO PROBLEMS.	Max. Temp. : 20.0 deg C
	Survey/ TF%: 100 / 0
	DGR RT/Rec%: 100 / 100
	EWR RT/Rec%: 100 / 100
	CNP RT/Rec%: 0 / 0
	SFD RT/Rec%: 0 / 0
	SLD RT/Rec%: 0 / 0

Bitrun Summary

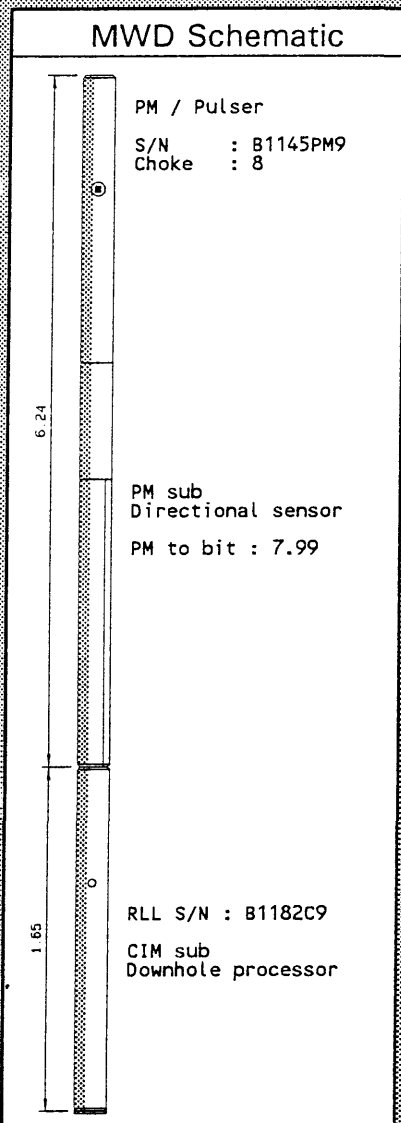
MWD Run Time Data	Drilling Data	Mud Data
MWD Run : 02	Start Depth: 298.0 m	Mud type : SEAWATER
Rig Bit : 03	End Depth : 446.0 m	Weight/Visc: 1.08 / 100.0
Hole Size: 12.25 in	Footage : 148.0 m	Chlorides : 0
Run Start: 09:47 30-JUN-95	Flow Rate : 4500.00 lpm	PV / YP : 21 / 17
Run End : 05:00 01-JUL-95	R.P.M. : 90	Solids/Sand: 0.0 / 0.00
BRT hrs : 19.22	W.O.B. : 7 T	%Oil/ O:W : 0 / 0 :100
Circ.hrs : 3.57	R.O.P. : 21 m/hr	
Oper.hrs : 19.38	S.P.P : 173 bar	



Comments	MWD Performance
OPEN UP THE TOPHOLE TO 36". NO PROBLEMS	Max. Temp. : 19.0 deg C Survey/ TF%: 100 / 0 DGR RT/Rec%: 0 / 0 EWR RT/Rec%: 0 / 0 CNP RT/Rec%: 0 / 0 SFD RT/Rec%: 0 / 0 SLD RT/Rec%: 0 / 0

Bitrun Summary

MWD Run Time Data	Drilling Data	Mud Data
MWD Run : 03	Start Depth: 0.0 m	Mud type : SEAWATER
Rig Bit : 04	End Depth : 0.0 m	Weight/Visc: 1.08 / 100.0
Hole Size: 17.50 in	Footage : 0.0 m	Chlorides : 0
Run Start: 08:40 01-JUL-95	Flow Rate : 3200.00 lpm	PV / YP : 22 / 18
Run End : 12:30 01-JUL-95	R.P.M. : 0	Solids/Sand: 0.0 / 0.00
BRT hrs : 3.83	W.O.B. : 0 T	%Oil/ O:W : 0 / 0 :100
Circ.hrs : 0.70	R.O.P. : 0 m/hr	
Oper.hrs : 4.03	S.P.P : 118 bar	



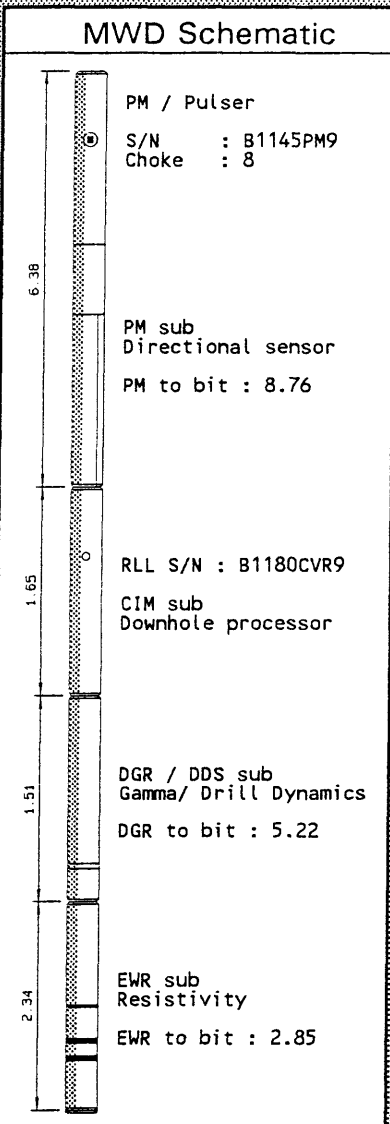
BHA Schematic

Component	Length	O.D.	I.D.
16. INTENSIFIER	3.95	6.130	2.250
15. 9*HWDP	81.92		
14. X/O	1.10	8.000	2.813
13. 2*DC	17.98	8.000	2.813
12. JAR	10.40	7.750	2.750
11. 3*DC	27.20	8.000	2.813
10. X/O	0.56	9.500	2.813
9. DRILLCOLLAR	8.69	9.500	3.000
8. DRILLCOLLAR	8.95	9.500	3.000
7. FLOAT SUB	0.83	9.500	
6. MPT-TOOL	6.38	9.500	
5. RLL-TOOL	1.65	9.500	2.375
4. P.D. SUB	0.61	9.500	
3. X/O	0.78	9.500	3.000
2. HOLEOPNER	3.20	36.000	
1. BIT MSD6H ODC	0.43	17.500	

Comments	MWD Performance
WIPERTRIP BEFORE THE 30" CASING WAS RUN. NO SURVEYS REQUESTED.	Max. Temp. : 17.0 deg C Survey/ TF%: 0 / 0 DGR RT/Rec%: 0 / 0 EWR RT/Rec%: 0 / 0 CNP RT/Rec%: 0 / 0 SFD RT/Rec%: 0 / 0 SLD RT/Rec%: 0 / 0

Bitrun Summary

MWD Run Time Data	Drilling Data	Mud Data
MWD Run : 04	Start Depth: 446.0 m	Mud type : SEAWATER
Rig Bit : 05	End Depth : 949.0 m	Weight/Visc: 1.08 / 100.0
Hole Size: 26.00 in	Footage : 503.0 m	Chlorides : 0
Run Start: 08:20 02-JUL-95	Flow Rate : 4300.00 lpm	PV / YP : 20 / 18
Run End : 21:00 03-JUL-95	R.P.M. : 100	Solids/Sand: 0.0 / 0.00
BRT hrs : 36.67	W.O.B. : 7 T	%Oil/ O:W : 0 / 0 :100
Circ.hrs : 5.30	R.O.P. : 39 m/hr	
Oper.hrs : 46.62	S.P.P : 195 bar	



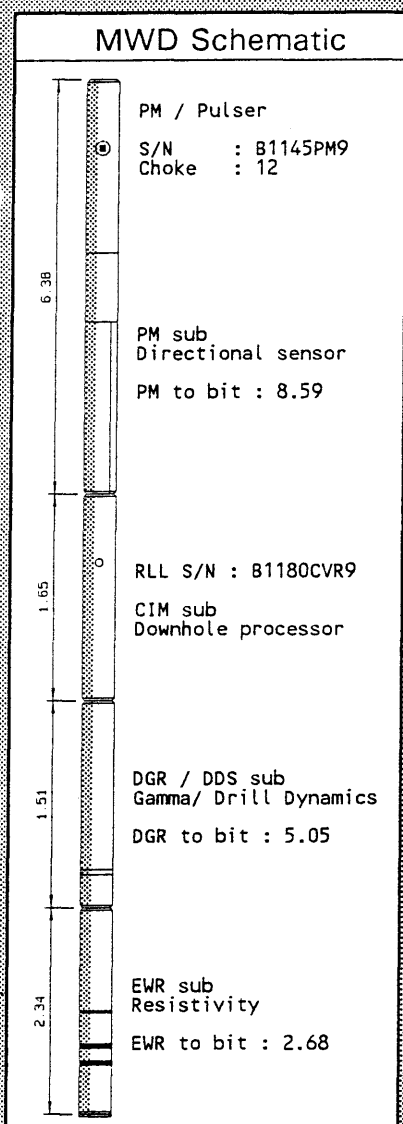
BHA Schematic

Component	Length	O.D.	I.D.
16. INTENSIFIER	3.95	6.130	2.250
15. 9*HWDP	81.92		
14. X/O	1.10	8.000	2.813
13. 2*DC	17.98	8.000	2.813
12. JAR	10.40	7.750	2.750
11. 6*DC	54.43	8.000	2.813
10. X/O	0.56	9.500	2.813
9. DRILLCOLLAR	8.69	9.500	3.000
8. STABILISER	1.73	26.000	3.000
7. DRILLCOLLAR	8.95	9.500	3.000
6. FLOAT SUB	0.83	9.500	
5. MPT-TOOL	6.38	9.500	
4. RLL-TOOL	5.50	9.500	2.375
3. PIN x PIN X/O,	0.56	9.500	
2. BIT SUB	0.78	9.500	3.000
1. SMITH MSDSH	0.60	26.000	

Comments	MWD Performance
<p>DRILLED 26" HOLE DOWN TO CASING POINT @949m.</p> <p>SOME DETECTION PROBLEMS AT THE END OF THE 12" PILOTHOLE AND IN TO THE NEW Fm.</p> <p style="text-align: center;">100 % RECORDED LOG.</p> <p>START DRILL CEMENT: 02-JUL 11:35 @ 436m</p> <p>START DRILL NEW Fm: 02-JUL 13:55 @ 446m</p> <p>END DRILL: 03-JUL 13:17 @ 949m</p>	<p>Max. Temp. : 22.0 deg C</p> <p>Survey/ TF%: 100 / 0</p> <p>DGR RT/Rec%: 80 / 100</p> <p>EWR RT/Rec%: 80 / 100</p> <p>CNP RT/Rec%: 0 / 0</p> <p>SFD RT/Rec%: 0 / 0</p> <p>SLD RT/Rec%: 0 / 0</p>

Bitrun Summary

MWD Run Time Data	Drilling Data	Mud Data
MWD Run : 05	Start Depth: 913.0 m	Mud type : GYPSUM
Rig Bit : 06	End Depth : 1247.0 m	Weight/Visc: 1.35 / 75.0
Hole Size: 17.50 in	Footage : 334.0 m	Chlorides : 2800
Run Start: 14:24 07-JUL-95	Flow Rate : 3350.00 lpm	PV / YP : 19 / 13
Run End : 00:30 10-JUL-95	R.P.M. : 115	Solids/Sand: 12.0 / 0.00
BRT hrs : 58.10	W.O.B. : 17 T	%Oil/ O:W : 0 / 0 :100
Circ.hrs : 46.60	R.O.P. : 10 m/hr	
Oper.hrs : 58.28	S.P.P : 165 bar	



BHA Schematic

Component	Length	O.D.	I.D.
17. DART SUB	0.70	6.500	2.250
16. 15*HWDP	136.42	5.000	
15. X/O	1.10	8.000	2.813
14. 2*DC	17.98	8.000	2.813
13. JAR	10.40	7.750	2.750
12. 6*DC	54.43	8.000	2.813
11. X/O	0.56	9.500	2.813
10. DRILLCOLLAR	8.69	9.500	3.000
9. STABILISER	1.42	17.500	3.000
8. DRILLCOLLAR	8.95	9.500	3.000
7. STABILISER	1.42	17.500	3.000
6. FLOAT SUB	0.83	9.500	
5. MPT-TOOL	6.38	9.500	
4. RLL-TOOL	5.50	9.500	3.500
3. PIN x PIN X/O,	0.56	9.500	
2. BIT SUB	0.78	9.500	3.000
1. SMITH MSDGH	0.43	17.500	

Comments	MWD Performance
POOH TO CHANGE MWD AND ADD A MOTOR.	Max. Temp. : 34.0 deg C
	Survey/ TF%: 9 / 0
	DGR RT/Rec%: 80 / 100
	EWR RT/Rec%: 80 / 100
	CNP RT/Rec%: 0 / 0
	SFD RT/Rec%: 0 / 0
	SLD RT/Rec%: 0 / 0