

DAILY DRILLING REPORT

25/09/2006

REPORT	#	18
MEI ONI	π	10

Glenaire	Glenaire 01			EPTH 300)2m 2	24 HR PROG		CUM. CO	OSTS	
Ensign #	32		FORMA	TION	Laira	PTD	3945m	DAILY CO	OSTS	
06:00			ocate casing	g to clean hole	and lower	pack-off press	sure. Cement a	as per program	and set slip and	seal
S / D PLAN:	shale cutti	ings to surf	ace, high g	as spikes (upt			-		PERSONNEL ON SITE:	34
ASING	9 5/8"	SET AT	1252m	LOT 13.5p	og MAASI	P 850psi	BOP TEST	16/09/2006	TEST DUE	30/09
's: 58	SAFETY			, 0	1			WEATHER	AM fine PM fine cold	
	Ensign # 06:00 S / D PLAN: ASING	ASING 9 5/8"	Ensign # 32 06:00 Circulate and recipro assembly. CIP 0500 S/ RIH 254jnts 7" 26/2 DPLAN: shale cuttings to surf pressures and pack of assembly. ASING 9 5/8" SAFETY 1. Pretour	Ensign # 32 FORMA 06:00 Circulate and reciprocate casing assembly. CIP 0500 S/ RIH 254jnts 7" 26/29 L80 casin shale cuttings to surface, high g pressures and pack off stabilised ASING 9 5/8" SAFETY 1. Pretour: drill collar	Ensign # 32 FORMATION 06:00 Circulate and reciprocate casing to clean hole assembly. CIP 0500 S/ RIH 254jnts 7" 26/29 L80 casing to 2998m. H shale cuttings to surface, high gas spikes (upt pressures and pack off stabilised. ASING 9 5/8" SET AT 1252m LOT 13.5pr 's: 58 SAFETY 1. Pretour: drill collars laying down	Ensign # 32 FORMATION Laira 06:00 Circulate and reciprocate casing to clean hole and lower assembly. CIP 0500 S/ RIH 254jnts 7" 26/29 L80 casing to 2998m. Hole showi shale cuttings to surface, high gas spikes (upto 4354 uni pressures and pack off stabilised. ASING 9 5/8" SAFETY 1. Pretour: drill collars laying down	Ensign # 32 FORMATION Laira PTD 06:00 Circulate and reciprocate casing to clean hole and lower pack-off press assembly. CIP 0500 S/ DPLAN: RIH 254jnts 7" 26/29 L80 casing to 2998m. Hole showing signs of car shale cuttings to surface, high gas spikes (upto 4354 units) while circu pressures and pack off stabilised. ASING 9 5/8" SET AT 1252m LOT 13.5ppg MAASP 850psi 's: 58 SAFETY 1. Pretour: drill collars laying down	Ensign # 32 FORMATION Laira PTD 3945m 06:00 Circulate and reciprocate casing to clean hole and lower pack-off pressure. Cement a assembly. CIP 0500 S/ RIH 254jnts 7" 26/29 L80 casing to 2998m. Hole showing signs of caving in with as shale cuttings to surface, high gas spikes (upto 4354 units) while circulating. Circulate pressures and pack off stabilised. ASING 9 5/8" SET AT 1252m LOT 13.5ppg MAASP 850psi BOP TEST 's: 58 SAFETY 1. Pretour: drill collars laying down	Ensign # 32 FORMATION Laira PTD 3945m DAILY CO 06:00 Circulate and reciprocate casing to clean hole and lower pack-off pressure. Cement as per program assembly. CIP 0500 S/ RIH 254jnts 7" 26/29 L80 casing to 2998m. Hole showing signs of caving in with associated shale cuttings to surface, high gas spikes (upto 4354 units) while circulating. Circulate until pressures and pack off stabilised. ASING 9 5/8" SET AT 1252m LOT 13.5ppg MAASP 850psi BOP TEST 16/09/2006	Ensign # 32 FORMATION Laira PTD 3945m DAILY COSTS 06:00 Circulate and reciprocate casing to clean hole and lower pack-off pressure. Cement as per program and set slip and assembly. CIP 0500 S/ RIH 254jnts 7" 26/29 L80 casing to 2998m. Hole showing signs of caving in with associated shale cuttings to surface, high gas spikes (upto 4354 units) while circulating. Circulate until pressures and pack off stabilised. PERSONNEL ON SITE: ASING 9 5/8" SET AT 1252m LOT 13.5ppg MAASP 850psi BOP TEST 16/09/2006 TEST DUE 's: 58 SAFETY 1. Pretour: drill collars laying down WEATHER AM fine

PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide 0 8-P-80 8-P-80 TORQUE OFF (Amps/Rel.) Sodium 5 RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls From TO Description HOURLY OPERATIONS SUMMARY From TO Description HOURLY OPERATIONS SUMMARY 6:00 1:00 Continue to layout pipe to 764m. 1 1:00 2:00 Repair forklift transmission selector, unable to clear pipe racks 2 2:00 4:00 Continue to layout pipe, flow check 4 4:00 6:00 Layout BHA 6:00 7:30 6:00 7:30 Change rams and pressure test bonnet seal 7:30 7:30 9:00 Rig up to run 7" casing, clear floor. 9:00	51 KCl/PHPA/P ppg) 9.50 (sec) 51 (sec) 9 (sec) 9 (sec) 9 (sec) 9 (sec) 9 (vol) 6 Vol) 6 Vol) 6 (mg/l) 29600 5.8 0.94 (K) 841 EMICAL USAGE 841	D/O Cement Drilling FIT / LOT Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tripht hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	1.5 1.0 3.0 13.5 5.0	22.5 5.5 15.0 9.5 188.0 1.0 3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
RPM H SI Depth (n BIT NUMBER Temp (? Size (in) Mud Tyr Make Density (Type ECD (pp) IADC Code Viscosity Serial Number PV / YP I.F.A. (") Gells (sh Depth In (m) API Filt. Depth Out (m) Cake (73) Total Meters Solids (% ROP Solids (% Condition Out BHA LENGTH (m) PU (Fm) AI14 Condition Out BHA WEIGHT(kLb) Chick CATE (gpm) 336 STRING WT (kLb) KCL (% AV - DP (fpm) 114 WT BELOW JARS (kLb) ALC - % SPP (psi) DRAG DOWN (kLb) 180.0 PV (FPm) 114 WT BELOW JARS (kLb) Solids (% SPP (psi) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide (Solidan S) STROKE 8.5" STROKE 8.5" DALL Y DSGE 230	C) 51 C 51 C KCl/PHPA/P ppg) 9.50 (sec) 51 (sec) 51 (sec) 51 (sec) 9 ") 1 Vol) 6 Vol) TRC 15 9.8 (mg/l) 29600 5.8 (mg/l) 29600 5.8 (b) 0.94 (K) (Bbl) 841 EMICAL USAGE	Circ & Condition Circ & Condition D/ Coring D/O Cement Drilling FIT / LOT Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	1.0 3.0 13.5	15.0 9.5 188.0 1.0 3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
BIT NUMBER Temp (* Size (in) Mud Typ Make Density (Type Density (LADC Code Viscosity Serial Number PV / YP LADC Code PV / YP T.F.A. (*) Gells (s/n Depth In (m) Gells (s/n Depth In (m) Gells (s/n Depth In (m) Solids (%) Total Meters Solids (%) Hours Solids (%) ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA LENGTH (m) PH (fpm) 114 HOOK LOAD (klb) 250.0 CIRC. RATE (gpm) 336 STRING WT (kLb) Choirdes CIRC. RATE (gpm) 114 HOOK LOAD (klb) 250.0 PHMP #1 PUMP #2 DRAG UP (klb) 300.0 Circ. Vol Solidum S SPP (calculated) DRAG DOWN (kLb) 180.0 PUMP #1 PUMP #2 TORQUE ON (AmpsRet.) Solidum S STROKE 8.5." STROKE 8.5."<	51 KCl/PHPA/P ppg) 9.50 (sec) 51 (sec) 9 (sec) 9 (sec) 9 (sec) 9 (sec) 9 (vol) 6 Vol) 6 Vol) 6 (mg/l) 29600 5.8 0.94 (K) 841 EMICAL USAGE 841	DI Coring D/O Cement D/O IIIng FIT / LOT Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	1.0 3.0 13.5	9.5 188.0 1.0 3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
Size (in) Mud Tyry Make Density (Type ECD (pp IADC Code Viscosity Serial Number PV / VP IZF.A. (") Gells (s/n Depth In (m) API Filt. Depth Out (m) Cake (3: Total Meters Solids (% Hours Sand (% ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA WEIGHT(kLb) CIRC. RATE (gpm) 336 STRING WT (kLb) KCL (% AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 SPP (psi) DRAG UP (kLb) SPP (calculated) DRAG UP (kLb) SPP (calculated) DRAG DOWN (kLb) STROKE 8.5" STROKE 8.5" STROKE 8.5" STROKE 8.5" STROKE 8.5" SURVEYS BARITES USED INER 5.0" LINER 5.0" SURVEYS BARITES USED MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED 4000 Continue to layout pipe to 764m. <	KCI/PHPA/P ppg) 9.50 (sec) 51 cp/lb) 13 / 19 n) 4 / 16 (cc) 9 ") 1 Vol) 6 Vol) 6 Vol) 7 15 9.8 (mg/l) 29600 5.8 0.94 (K) 0.94 (Bbl) 841 EMICAL USAGE 10	D/O Cement D/O Cement Drilling FIT / LOT Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	3.0 13.5	188.0 1.0 3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
Make Density (Type ECD (pp IADC Code Viscosity Serial Number PV / Yp T.F.A. (") Gells (s/s) Depth In (m) API Filt. Depth In (m) Gells (s/s) Depth In (m) API Filt. Depth In (m) Solids (% Hours Solids (% ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA WEIGHT(kLb) Clincian Conduct BRA G UP (kLb) Size Conducted) DRAG UP (kLb) Size Conducted) DRAG DOWN (kLb) PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Sodium S <tr< td=""><td>ppg) 9.50 (sec) 51 cp/lb) 13 / 19 a) 4 / 16 (cc) 9 ") 1 Vol) 6 Vol) 6 Vol) 7RC 15 9.8 (mg/l) 29600 5.8 0.94 (K) 841 EMICAL USAGE 10</td><td>D/O Cement D/O Cement Drilling FIT / LOT Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip</td><td>3.0 13.5</td><td>188.0 1.0 3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0</td></tr<>	ppg) 9.50 (sec) 51 cp/lb) 13 / 19 a) 4 / 16 (cc) 9 ") 1 Vol) 6 Vol) 6 Vol) 7RC 15 9.8 (mg/l) 29600 5.8 0.94 (K) 841 EMICAL USAGE 10	D/O Cement D/O Cement Drilling FIT / LOT Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	3.0 13.5	188.0 1.0 3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
Type ECD (pp IADC Code Viscosity Serial Number PV / YP T.F.A. (") Gells (sh Depth In (m) API Filt. Depth Out (m) Cake (3: Total Meters Solids (% Hours Solids (% ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA LENGTH (m) CRC. RATE (gpm) 336 STRING WT (kLb) Chlorides AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHPA (pp) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 SPP (calculated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE OF (Amps/ReL) Biocide G STROKE 8.5" STROKE 8.5" STROKE SO" SURVEYS BARITES ON SITE 21800 Litres Sdiud 5 SURVEYS BARITES ON SITE 175 kg BARITES ON SITE 175 kg BARITES USED 1225 kg MUD MIXED <	(sec) 51 (sp/lb) 13 / 19 (sc) 9 (sc) 9 ") 1 Vol) 6 Vol) 7 15 9.8 (mg/l) 29600 5.8 0.94 (K) 841 EMICAL USAGE	Drilling FIT / LOT Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	3.0 13.5	188.0 1.0 3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
IADC Code Viscosity Serial Number PV / YP T.F.A.(") Gells (s/s Depth In (m) Cake (/3) Depth Out (m) Cake (/3) Total Meters Solids (% Hours Solids (% ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA WEIGHT(kLb) Clinck (Sign) 336 STRING WT (kLb) Chlorides CIRC. RATE (gpm) 336 STRING WT (kLb) Chlorides AV - DC (fpm) 114 HOOK LOAD (kLb) 250.0 PIP (psi) DRAG UP (kLb) 300.0 SPP (psi) DRAG DOWN (kLb) 180.0 PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide C S-P80 8-P-80 TORQUE ON (Amps/Rel.) Sodium S RATE 8.0 BULK PRODUCTS KCL LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres STROKE 8.5" STROKE 8.5"<	(sec) 51 (cp/lb) 13 / 19 a) 4 / 16 (cc) 9 ") 1 Vol) 6 Vol) 7 15 9.8 (mg/l) 29600 5.8 0.94 (K) 841 EMICAL USAGE 10	FTT / LOT Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	3.0 13.5	1.0 3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
Serial Number PV / YP T.F.A.(") Gells (s/n Depth In (m) API Filt. Depth Out (m) Cake (/3) Total Meters Solids (%) Hours Solids (%) ROP MBT Condition Out BHA LENGTH (m) pH (strip Condition Out BHA WEIGHT(kLb) Chlorides CIRC. RATE (gpm) 336 STRING WT (kLb) KCL (%) AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHPA (p AV - DP (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calculated) DRAG DOWN (kLb) 180.0 CHR PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide C STROKE 8.5" DAILY USAGE 2300 Litres STROKE 8.5" DAILY USAGE 2300 Litres STROKE 8.5" DAILY USAGE 200 Litres SURVEYS BARITES ON SITE 175 kg MUD MIXED 4022 Bbls MUD MUSED 4022 Bbls MUD LOSS	cp/lb) 13 / 19 a) 4 / 16 (cc) 9 ") 1 Vol) 6 Vol) 6 Vol) 78C 15 9.8 (mg/l) 29600 5.8 0.94 (K) 841 EMICAL USAGE	Handle BHA Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	3.0 13.5	3.0 9.0 3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
T.F.A.(") Gells (s/n Depth In (m) API Filt. Depth Out (m) Cake (/3) Total Meters Solids (% Hours Solids (% ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA WEIGHT(kLb) Condition Out BHA WEIGHT(kLb) CIRC. RATE (gpm) 336 STRING WT (kLb) Chlorides CIRC. RATE (gpm) 114 HOOK LOAD (kLb) 250.0 AV - DP (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 SPP (calculated) DRAG DOWN (kLb) 180.0 PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide C SP-80 8-P-80 TORQUE OF (Amps/Rel.) Sodium S RATE 80 BULK PRODUCTS KCL LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD	a) 4 / 16 (cc) 9 ") 1 Vol) 6 Vol) TRC 15 9.8 (mg/l) 29600 5.8 (b) 0.94 (K) (Bbl) 841 EMICAL USAGE	Repairs Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	3.0 13.5	9.0 3.5 10.0 32.5 1.0 16.5 8.5 53.0 5.0 2.0 1.0
Depth In (m) API Filt. Depth Out (m) Cake (73) Total Meters Solids (% Hours Sand (% ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA VEIGHT(kLb) CRC. RATE (gpm) 336 STRING WT (kLb) KCL (% AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHP (pipi) 114 V - DC (fpm) 114 WT BELOW JARS (kLb) ACC - 50 SPP (psi) DRAG DOWN (kLb) 180.0 PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide (8-P-80 8-P-80 TORQUE OFF (Amps/Rel.) Sodium 9 RATE 80 BULK PRODUCTS KCL STROKE 8.5" STROKE 8.5" SOLUTES SURVEYS BARITES ON SITE 175 kg BARITES ON SITE 175 kg BARITES ON SITE 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From To Description <td< td=""><td>(cc) 9 ") 1 Vol) 6 Vol) TRC 15 9.8 (mg/l) 29600 5.8 0.94 (K) (Bbl) 841 EMICAL USAGE</td><td>Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip</td><td>3.0 13.5</td><td>3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0</td></td<>	(cc) 9 ") 1 Vol) 6 Vol) TRC 15 9.8 (mg/l) 29600 5.8 0.94 (K) (Bbl) 841 EMICAL USAGE	Rig Service Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	3.0 13.5	3.5 10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
Depth Out (m) Cake (73) Total Meters Solids (9) Hours Sand (%) ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA VEIGHT(kLb) Clinc. RATE (gpm) 336 STRING WT (kLb) Chlorides CIRC. RATE (gpm) 114 HOOK LOAD (kLb) 250.0 AV - DP (fpm) 114 HOK LOAD (kLb) 250.0 PHPA (p AV - DC (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Ret.) Biocide 0 SP (calculated) DRAG BOWN (kLb) 180.0 CH Solid S (%) Solid S (%) RATE 80 RATE 80 BLK PRODUCTS KCL KCL LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres MUD MIXED 4022 Bbls MUD LOSSES 3090	") 1 Vol) 6 Vol) TRC 15 9.8 (mg/l) 29600 5.8 ob) 0.94 (K) (Bbl) 841 EMICAL USAGE	Rig up Csg./ Cmt. Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	13.5	10.0 32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
Total Meters Solids (% Hours Solids (% ROP MBT Condition Out BHA LENGTH (m) FLOW DATA BHA WEIGHT(kLb) Cill C. RATE (gpm) 336 STRING WT (kLb) KCL (% AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHPA (p AV - DD (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 SPP (psi) DRAG DOWN (kLb) 180.0 PUMP #1 PUMP #2 TORQUE ON (Amps/ReL) Biocide 0 SP (calculated) DRAG DOWN (kLb) 180.0 CH NATE 80 RATE 80 BULK PRODUCTS KCL RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" FUEL ON SITE 21800 Litres Sodium 0 STROKE 8.5" STROKE 8.5" DALLY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg MUD LOSSES 3090 Bbls MUD LOSSES 3090 Bbls MU	Vol) 6 Vol) TRC 15 9.8 (mg/l) 29600 5.8 0.94 (K) (Bbl) 841 EMICAL USAGE	Run Casing Safety Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	13.5	32.5 1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
Hours Sand (% ROP MBT Condition Out BHA LENGTH (m) pH (strip FLOW DATA BHA WEIGHT(kLb) Chlorides CIRC. RATE (gpm) 336 STRING WT (kLb) Chlorides V - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHPA (p AV - DC (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calculated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide 0 SATTE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STRIK 8.5" DALY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED MUD MIXED 4022 Bbls MUD MIXED MUD LOSSES 3090 Bbls S000 Continue to layout pipe to 764m. 1:00	TRC 15 9.8 (mg/l) 29600 5.8 ob) 0.94 (K) (Bbl) 841 EMICAL USAGE	Safety Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip		1.0 3.0 16.5 8.5 53.0 5.0 2.0 1.0
ROP MBT Condition Out BHA LENGTH (m) pH (strip FLOW DATA BHA WEIGHT(kLb) Chlorides CIRC. RATE (gpm) 336 STRING WT (kLb) Chlorides CIRC. RATE (gpm) 114 HOOK LOAD (kLb) 250.0 PHPA (p AV - DC (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calculated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide 0 SPP (calculated) DRAG DOWN (kLb) 180.0 CH RATE 80 RATE Sodium 5 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STRIKE 8.5" DAILY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD LOSSES 30900 Bbls MUD LOSSES 30900 Bb	15 9.8 (mg/l) 29600 5.8 ob) 0.94 (K) (Bbl) 841 EMICAL USAGE	Slip/Cut Drill Line Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	5.0	3.0 16.5 8.5 53.0 5.0 2.0 1.0
Condition Out BHA LENGTH (m) pH (strip FLOW DATA BHA WEIGHT(kLb) Chlorides CIRC. RATE (gpm) 336 STRING WT (kLb) KCL (% AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHPA (p AV - DC (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calculated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide C RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres UNU FUEL USED 79521 Litres UNU MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From To Description	9.8 (mg/l) 29600 5.8	Survey Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	5.0	16.5 8.5 53.0 5.0 2.0 1.0
FLOW DATA BHA WEIGHT(kLb) Chlorides CIRC. RATE (gpm) 336 STRING WT (kLb) KCL (% AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHPA (p AV - DC (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calculated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 FORQUE ON (Amps/Rel.) Biocide 0 RATE 80 RATE TORQUE OFF (Amps/Rel.) Sodium S RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From TO Description 0:00 1:00 Continue to layout pipe to 764m. 1:00 2:00 Repair forklift transmission se	29600 5.8 ob) 0.94 (K) (Bbl) 841 EMICAL USAGE	Test BOP Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	5.0	8.5 53.0 5.0 2.0 1.0
CIRC. RATE (gpm) 336 STRING WT (kLb) KCL (% AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHPA (p AV - DC (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calculated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide C RATE 80 RATE 80 BULK PRODUCTS KCL INER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres CUM. FUEL USED 79521 Litres SURVEYS BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From To Description HOURLY OPERATIONS SUMMARY 400 6:00 0 0.00 1:00 Continue to layout pipe to 764m. 1:00 2:00 Repair forklift transmission selector, unable to clear pipe	5.8 bb) 0.94 (K) (Bbl) 841 EMICAL USAGE	Tight hole / Fishing Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	5.0	53.0 5.0 2.0 1.0
AV - DP (fpm) 114 HOOK LOAD (kLb) 250.0 PHPA (p AV - DC (fpm) 114 WT BELOW JARS (kLb) ALC - 50 SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calulated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide C SP (calulated) DRAG DOWN (kLb) 180.0 CH RATE 80 RATE 80 BULK PRODUCTS Sodium 5 RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY HOURLY OPERATIONS SUMMARY From To Description E 0:00 1:00 Continue to layout pipe t	bb) 0.94 (K) (Bbl) 841 EMICAL USAGE	Tripping Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	5.0	5.0 2.0 1.0
AV - DC (fpm) 114 WT BELOW JARS (kLb) ALC - 5 SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calculated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide 0 SP-80 S-P-80 TORQUE OFF (Amps/Rel.) Sodium 5 RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls From To Description HOURLY OPERATIONS SUMMARY From To Description 4:00 6:00 Layout BHA 6:00 7:30 Change rams and pressure test bonnet seal 7:30 9:00 Rig up to run 7" casing, clear floor. 9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to 440m 440m	(K) (Bbl) 841 EMICAL USAGE	Wait on Cement Wash / Ream Well Control Well Test Wiper Trip	5.0	5.0 2.0 1.0
SPP (psi) DRAG UP (kLb) 300.0 Circ. Vol SPP (calculated) DRAG DOWN (kLb) 180.0 Circ. Vol PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide O 8-P-80 8-P-80 TORQUE OFF (Amps/Rel.) Sodium 5 RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From To Description HOURLY OPERATIONS SUMMARY 0:00 1:00 Continue to layout pipe to 764m. 1:00 2:00 Repair forklift transmission selector, unable to clear pipe racks 2:00 4:00 Continue to layout pipe, flow check 4:00 6:00 Layout BHA 6:00 7:30 Change rams and pressure test bonnet seal 7:30 9:00 Rig up to run 7" casing, clear floor. 9:00 12:00 Safety Meeting, M/U float and s	(Bbl) 841 EMICAL USAGE	Wash / Ream Well Control Well Test Wiper Trip		2.0 1.0
SPP (calculated) DRAG DOWN (kLb) 180.0 CH PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide 0 8-P-80 8-P-80 TORQUE OFF (Amps/Rel.) Sodium 5 RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres KCL STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres CUM. FUEL USED 79521 Litres SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From To Description HOURLY OPERATIONS SUMMARY 1:00 2:00 Repair forklift transmission selector, unable to clear pipe racks 2:00 4:00 Continue to layout pipe, flow check 4:00 6:00 Layout BHA 6:00 7:30 Change rams and pressure test bonnet seal 7:30 9:00 Rig up to run 7" casing, clear floor. 9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to 440m 440	EMICAL USAGE	Well Control Well Test Wiper Trip		1.0
PUMP #1 PUMP #2 TORQUE ON (Amps/Rel.) Biocide O 8-P-80 8-P-80 TORQUE ON (Amps/Rel.) Biocide O RATE 80 RATE 80 BATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres KCL STROKE 8.5" STROKE 8.5" DAIL Y USAGE 2300 Litres KCL SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From To Description HOURLY OPERATIONS 0:00 1:00 Continue to layout pipe to 764m. Continue to layout pipe, flow check 4:00 6:00 Layout BHA Geod Geod Geod Rigue to run 7" casing, clear floor. 9:00 12:00 <td></td> <td>Well Test Wiper Trip</td> <td></td> <td></td>		Well Test Wiper Trip		
8-P-80 8-P-80 TORQUE OFF (Amps/Rel.) Sodium 5 RATE 80 RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls From To Description HOURLY OPERATIONS SUMMARY From To Description Continue to layout pipe to 764m. 1:00 2:00 Repair forklift transmission selector, unable to clear pipe racks Z:00 2:00 4:00 Continue to layout pipe, flow check 4:00 6:00 Layout BHA 6:00 7:30 Change rams and pressure test bonnet seal 7:30 9:00 Rig up to run 7" casing, clear floor. 9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to 440m		Wiper Trip		14.0
RATE 80 BULK PRODUCTS KCL LINER 5.0" LINER 5.0" FUEL ON SITE 21800 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls From To Description HOURLY OPERATIONS SUMMARY From To Description Graduetee 0:00 1:00 Continue to layout pipe to 764m. 1:00 2:00 Repair forklift transmission selector, unable to clear pipe racks 2:00 4:00 Continue to layout pipe, flow check 4:00 6:00 1:30 Change rams and pressure test bonnet seal 7:30 9:00 Rig up to run 7" casing, clear floor. 9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to 440m	i 4			1/2
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STROKE 8.5" STROKE 8.5" DAILY USAGE 2300 Litres CUM. FUEL USED 79521 Litres SURVEYS BARITES ON SITE 175 kg BARITES ON SITE 175 kg MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED 4022 Bbls MUD MIXED 3090 Bbls From To Description 0:00 1:00 Continue to layout pipe to 764m. 1:00 Continue to layout pipe to 764m. 1:00 Continue to layout pipe, flow check 4:00 Change rams and pressure test bonnet seal 7:30 9:00 Rig up to run 7" casing, clear floor. 9:00 9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to		Other		13.0
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SURVEYS BARITES ON SITE 175 kg BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From To Description 0:00 1:00 Continue to layout pipe to 764m. 1:00 2:00 Repair forklift transmission selector, unable to clear pipe racks 2:00 4:00 Continue to layout pipe, flow check 4:00 6:00 1:30 Change rams and pressure test bonnet seal 7:30 9:00 8ig up to run 7" casing, clear floor. 9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to 440m		DAILY MUD COSTS		\$888.40
BARITES USED 125 kg MUD MIXED 4022 Bbls MUD LOSSES 3090 Bbls HOURLY OPERATIONS SUMMARY From To Description 0:00 0:00 1:00 Continue to layout pipe to 764m. 1:00 2:00 Repair forklift transmission selector, unable to clear pipe racks 2:00 4:00 Continue to layout pipe, flow check 4:00 6:00 1:30 Change rams and pressure test bonnet seal 7:30 9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to 440m		CUM. MUD COSTS	\$	73,244.98
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7:30 9:00 Rig up to run 7" casing, clear floor. 9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to 440m				
9:00 12:00 Safety Meeting, M/U float and shoe and run 7" casing to 440m				
12:00 22:20 Bun assists to 2099m				
12:00 22:30 Run casing to 2988m				
22:30 0:00 Wash casing from 2988m to 2998m. Circulate clean hole				
				0/
SUPERVISOR: Barry Beetson GEOLOGIST:	DNNECTION GA		RIP GAS: N Drilling	%