

**Howmains #1**  
**LDL-CNL-GR-CAL**  
**Run #1, 1/500**

Schlumberger

COMPANY GFE Resources Ltd.  
WELL Howmains-1  
FIELD Exploration  
STATE Victoria  
RIG Century #11

LOCATION PEP 104  
Line H490.07 Shot Pt 127 142 4425.00' E  
Other Services:  
DL-MSFL-BHC  
GR-SP (ELCOM)  
US-CNL-GR  
CST (COBRES)

Permanent Datum MSL  
Log Measured From KB  
Elev. K.B. 49.7 M  
D.F. 49.4 M  
G.L. 44.0 M

DATE 21-Jul-94  
Form No. 1  
Depth Driller 2150.0 M  
Depth Logger (Schl) 2151.0 M  
Btm Log Interval 2150.0 M  
Top Log Interval 1750.0 M  
Casing-Driller 9.98' @ 356.4 M

Casing-Logger 356.0 M  
Bit Size 12 1/4" @ 356.0 M 9 1/2" @ 2150.0 M  
Type Fluid In Hole KCl Polymer 41.0 S  
Dens. Visc. 9.90 G/C3 6.4 C3

pH 9.5  
Source of Sample FLOWLINE  
Fm @ Meas. Temp. 241 OHMM @ 21.0 DEGC  
Fm @ Meas. Temp. 215 OHMM @ 15.0 DEGC  
Fm @ Meas. Temp. 338 OHMM @ 13.0 DEGC  
Source: Rmt Fmic PRESS  
Fm @ BHT 096 OHMM @ 83.0 DEGC  
Circulation Ended 05:11:21 JUL  
Logger on Bottom 05:11:21 JUL

Max. Rec. Temp. 83.0 DEGC  
Equip. Location 834  
Recorded By M Wilson / A Richards  
Witnessed By Ahmad Tabassi

DEF. MET. RES. & ENV.  
PE007554

The well name, location and borehole reference data were furnished by the customer.

All interpretations are opinions based on electrical and other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

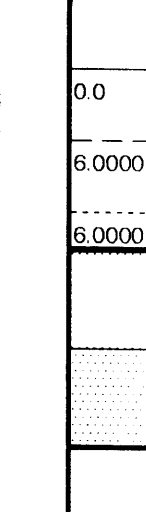
Run No.  
Service Order No.  
Drilling Fluid Level  
Salinity  
Rmf @ BHT 075 OHMM @ 83.0 DEGC @  
Rmc @ BHT 112 OHMM @ 83.0 DEGC @  
Logging Speed 1800.0 F/HR  
EQUIPMENT DATA  
Tool Number 1 DRS-C 6744  
Tool Number 2 PGD-G 3930  
Tool Number 3 NSC-D 2702  
Tool Number 4 CNC-HA 385  
Tool Number 5 CNH-A 3433  
Tool Number 6 SGC-SA 1279  
Tool Number 7 TCC-B 555  
Tool Number 8 TCM-AB 16  
Tool Number 9  
Tool Number 10  
Tool Number 11  
Tool Number 12

REMARKS:  
Log correlated to DLL-MSFL-GR-CAL log of 20-July-94.  
LDL CNL GR log run from TD to 1750m.  
Washed out hole causes poor tool response in upper section  
Tool string eccentricised.

Mair Log

ACCUMULATED INTEGRATION VALUES SUMMARY:  
Integrated Hole Volume: 583.099 F3 FROM 2151.00 M TO 1743.00 M  
Integrated Cement Volume: 226.962 F3 FROM 2151.00 M TO 1743.00 M  
(ASSUMING 7.00000 IN O.D. CASING)

EVENT MARK SUMMARY:  
OUTPUT INTERVAL DEPTH TRACK  
BETWEEN PIPS: EDGE  
Integrated Hole Volume 10.0000 F3 LEFT EDGE  
Integrated Cement Volume 10.0000 F3 RIGHT EDGE

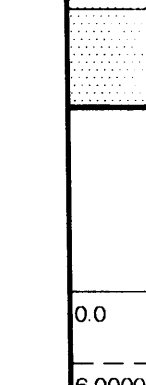


Washout  
Mudcake



CP 40.2 FILE 4 21-JUL-1994 05:54 (UP)

CP 40.2 FILE 4 21-JUL-1994 05:09 (UP)



Washout  
Mudcake

SENSOR MEASURE POINT TO TOOL ZERO  
LDTC .81 METER  
DNTH 7.24 METER  
SGT 9.83 METER  
DITL .28 METER

PARAMETERS:

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WMUD	1.17429	G/C3	DC	2151.00	M
FCD	7.00000	IN	DHC NONE		
BFM	1.10000	G/C3	MDEN	2.71000	G/C3
FD	1.00000	G/C3	MDPM STAN		
MATR	LIME		HC CALI		
NPDC	0		HSCO YES		
SOCO	NO		MCCO NO		
BSCO	NO		FSCO NO		
MWCO	NO		PTCO NO		
CCCO	NO		SDAT SOCN		
MCOR	NATU	PPM	SDCN .50000		IN
FSAL	-50000.0	PPM	ANGL 0.0		DEG
GGRD	.0100000	PPM/F	BHFL WATE		
CDSE	RHOB		CNPS NPHI		
NCJT	CSRY		GTSE TEMP		
SHT	10.0000	DEGC	BRT 81.0000		DEGC
TDL	2151.000	M	MHT 81.7000		DEGC
DFD	9.80000	G/C3	RMFS .215000		OHMM
RMS	.241000	OHMM	MST 21.0000		DEGC
MFST	15.0000	DEGC	BS 8.50000		IN
BHS	OPEN				

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RIG Century #11

SCHL FR 2150.0 M  
SCHL TD 2151.0 M  
DRLR TD 2150.0 M  
Elev: KB 49.7 M  
DF 49.4 M  
GL 44.0 M

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Run #1, 1/500

Enclosure 4b