



FILE NO: _____ COMPANY: **HUSKY OIL OPERATIONS LIMITED**
 WELL: **LITTLE BEAR N-9**
 API NO: _____ FIELD: **SLATER RIVER**
 PROVINCE: **NORTHWEST TERRITORIES**

Ver. 3.877 LOCATION: _____
 UID: **SURF LOC: LAT 64° 58' 55.2N**
300N086500126300 LONG 128° 31' 20.2W
 LICENSE: **BH LOC, LSD:**
483 LAT 64° 58' 55.2°N LONG 128° 31' 20.2°

PERMANENT DATUM **G.L.** ELEVATION **253.5 M**
 LOG MEASURED FROM **K.B.** **5.3 M** ABOVE P.D.
 DRILL MEAS. FROM **KELLY BUSHING**

OTHER SERVICES
 ZDL-GR-CAL
 HDIL-GR-CAL, CAL
 XMAC-GR, JREX
 EI-CRIL-GR, CBL
 ELEVATIONS:
 KB 258.8 M
 DF
 GL 253.5 M

DATE	13-FEB-2012	
RUN	TRIP	3
SERVICE ORDER	CA212310	
DEPTH DRILLER	1868.0 M	
DEPTH LOGGER	DID NOT TAG	
BOTTOM LOGGED INTERVAL	1853.4 M	
TOP LOGGED INTERVAL	1550.0 M	
CASING DRILLER	244.5 M	
CASING LOGGER	638.5 M	
BIT SIZE	222.0 MM	
TYPE OF FLUID IN HOLE	INVERT	
DENSITY	1280.0 G/L	39.0 S
PH	N/A	N/A
SOURCE OF SAMPLE	ND SAMPLE	
RM AT MEAS. TEMP.	NA	
RM AT MEAS. TEMP.	NA	
RM AT MEAS. TEMP.	NA	
SOURCE OF RMF	ND SAMPLE	ND SAMPLE
RM AT BHT	NA	
TIME SINCE CIRCULATION	34.5 HOURS	
MAX. RECORDED TEMP.	78.4 DEGC	
EQUIP. NO.	Z009872	CANADA OPEN
RECORDED BY	J. COLLIER / I. ZALESKIKH	
WITNESSED BY	H. BARENHOVEN	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BIT SIZE	FROM	TO
311.0 MM	0.0 M	638.0 M
222.0 MM	638.0 M	1868.0 M

SIZE	WEIGHT	GRADE	FROM	TO
244.5 MM	53.6 KG/M	J-55	0.0 M	638.0 M

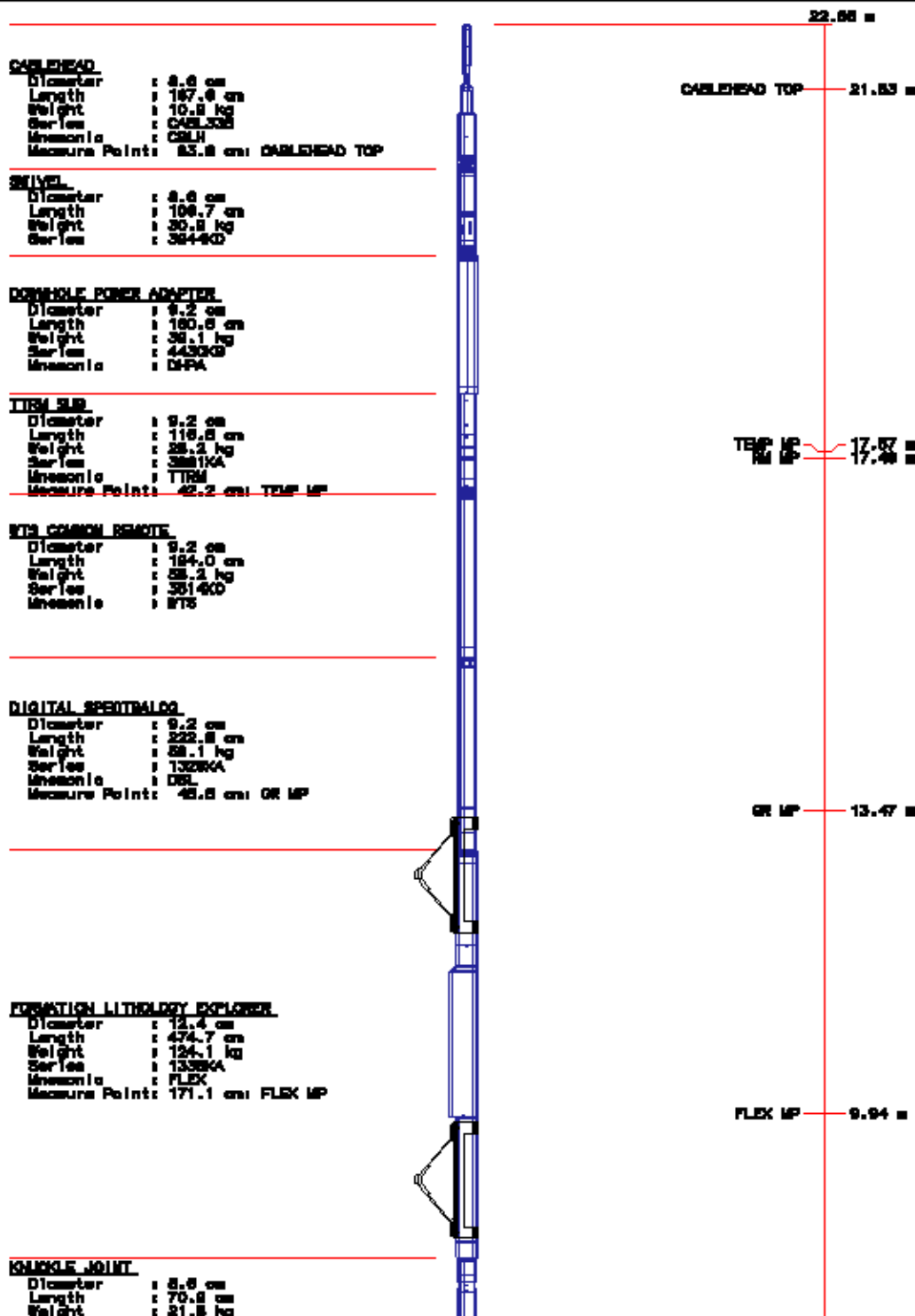
REMARKS
 RUN 1 TRIP 3: TIME STOPPED CIRCULATION: 12-FEB-2012 05:30 PM
 RIG: NABORS 23
 CREW: J. COLLIER, I. ZALESKIKH, D. KIRMAN, D. SCHNEIDER, N. MCDERMID, J. VANDER HONING

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	3	SWIVEL	3844XD	11808288	FREE
1	3	DHPK	4430GB	12111582	FREE
1	3	TTRM SUB	3981XB	11760038	FREE
1	3	CONN	3514XC	12079085	FREE
1	3	WTC ROD (C)	4309UD	44368874	FREE

1	3	WTS DASH/SU	132809	11798874	FREE
1	3	FLEX	13380A	10474273	DECENTRALIZED
1	3	FLEX	13380A	10436765	DECENTRALIZED
1	3	KNICKLE JOIN	39230A	Z186274	FREE
1	3	MREX CAPAC	32180A	11841352	DECENTRALIZED
1	3	NTMR FLEET	3218EB	403511	DECENTRALIZED
1	3	NTMR MANDRE	3218MB	402475	DECENTRALIZED

INSTRUMENT CONFIGURATION

Source File: /dat1a/husky_CA212310/run3-tdg



MREX CAPACITOR CHARGER GUN

Diameter : 9.2 cm
 Length : 271.1 cm
 Weight : 80.0 kg
 Series : 321BQA
 Manufacturer : MREX

MREX ELECTRONICS

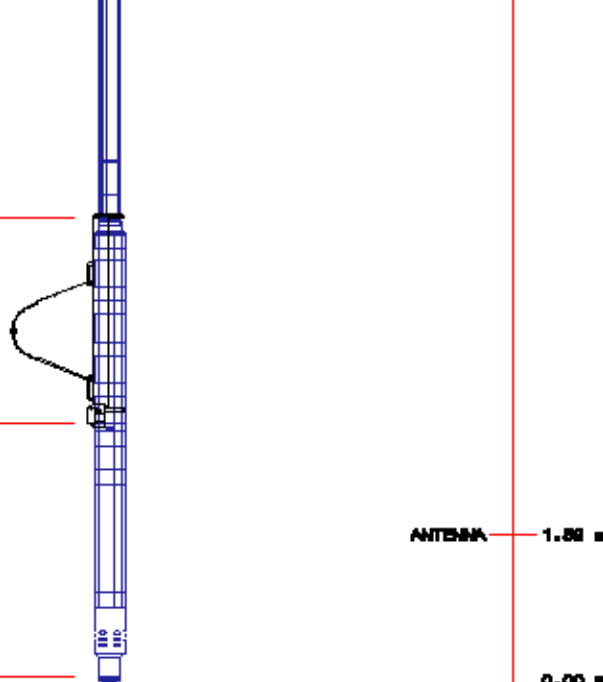
Diameter : 12.7 cm
 Length : 211.8 cm
 Weight : 80.8 kg
 Series : 321BEB
 Manufacturer : MREX

MREX MAGNET

Diameter : 12.7 cm
 Length : 380.0 cm
 Weight : 140.0 kg
 Series : 321BEB
 Manufacturer : MREX
 Measure Point: 100.4 cm ANTENNA

BALL PLUG 3 3/8

TOTAL LENGTH: 22.88 m
 TOTAL WEIGHT: 688.8 kg
 MAX DIAMETER: 12.7 cm

**MAIN PASS - FIELD PRESENTATION**

ECLIPS 6.11 Aug 06, 2010
 Updates: 1 Patches: 1

Mon Feb 27 11:12:51 2012

Perpl /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.51

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/husky_CA212310/m876gf_XC05.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 1547.822 m BOTTOM DEPTH: 1888.445 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TTRM	FILTER (.td)	medium (1)		..	..
SPEED	FILTER ()	medium (1)		..	..
	FILTER (.h)	medium (1)		..	..
	FILTER (.i)	medium (1)		..	..
	FILTER (.i)	medium (1)		..	..
TENSION	FILTER ()	medium (1)		..	..
	FILTER ()	medium (1)		..	..
	FILTER (.h)	medium (1)		..	..
	FILTER (.i)	medium (1)		..	..
SL-11	FILTER	medium (1)		..	..
	MREX - POROSITY	FILTER ()	medium (1)	..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MUD DENSITY	MUD DENSITY	1.28	g/cm3	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (fbh*)	USE FIXED SIZE		..	..
BOREHOLE CORR DIAMETER	FIXED DIAMETER (fbh*)	222.000	mm	..	..

SLU PROCESSING

SLIT PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
SLIT BOREHOLE	KCL MUD CONTENT	0	pot	TOP	BOTTOM
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		..	..
SLIT AUTOGAIN	AUTO GAIN	AUTO GAIN ON		..	..
SLIT ENERGY RANGE	ENERGY RANGE	NORMAL: 0.25-3.0 MeV		..	..
SPECTRUM CALIBRATION	MODE	AUTOMATIC		..	..

FLEX PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CAPTURE SUBTRACTION FACTOR	SUBTRACTION FACTOR	1.00		TOP	BOTTOM
BOREHOLE CORRECTIONS	BARITE MUD (BaSO4)	ON		..	..
	OIL BASED MUD FRAC	0.81		..	..
POROSITY CORRECTION SOURCE	POROSITY/FIXED VALUE	PREFERRED POROSITY		..	..
	FIXED POROSITY	10.000	pu	..	..

FLEX SPECTRUM CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
SPECTRUM CALIBRATION	MODE	AUTOMATIC		TOP	BOTTOM
	MANUAL OM, CAPT	29.01840		..	..
	MANUAL OA, CAPT	-1.045475		..	..
	MANUAL OM, TOTL	29.14517		..	..
	MANUAL OA, TOTL	-0.957793		..	..

MREX ACQUISITION PARAMETERS

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MREX TGC	SUBSET 0 INTERVAL	12.000	s	TOP	BOTTOM
	NUM FREQ GROUPS	1		..	..
	1ST T2 TE	0.40	ms	..	..
	CBW TE	0.40	ms	..	..
	CBW TW	0.020	s	..	..

MREX PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
NOISE & CAL PULSE SELECTION	FREQ DISPLAY SELECT	FREQUENCY A		TOP	BOTTOM
POROSITY	MEV/MEVM BOUNDARY	CLASTIC (33 ms)		..	..
	USER MEV/MEVM	33	ms	..	..
	CBW CUTOFF	3.4	ms	..	..
AVERAGING LENGTH (SAMPLES)	ET Averaging Length	6 samples		..	..
RESET PHASE ROTATION ANGLE	RESET ACCUM. PHASE			..	..
MREX FORMATION/BOREHOLE TEMP	BOREHOLE TEMP SRC	MEASURED (3061/3060)		..	..

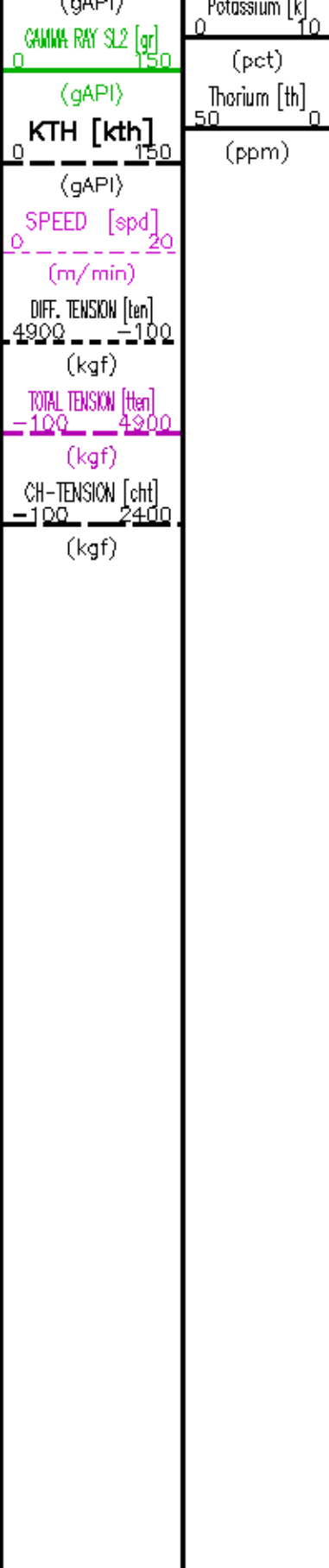
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CHT	0.00	SLIT	9.83	WFAL	9.83	WFS	9.83
GLIT	9.83	SPD	0.00	WFC	9.83	WFSI	9.83
GR	13.37	TEN	0.00	WFCA	9.83	WFTI	9.83
K	13.37	TH	13.37	WFFE	9.83		
KTH	13.37	TTEN	0.00	WFMG	9.83		

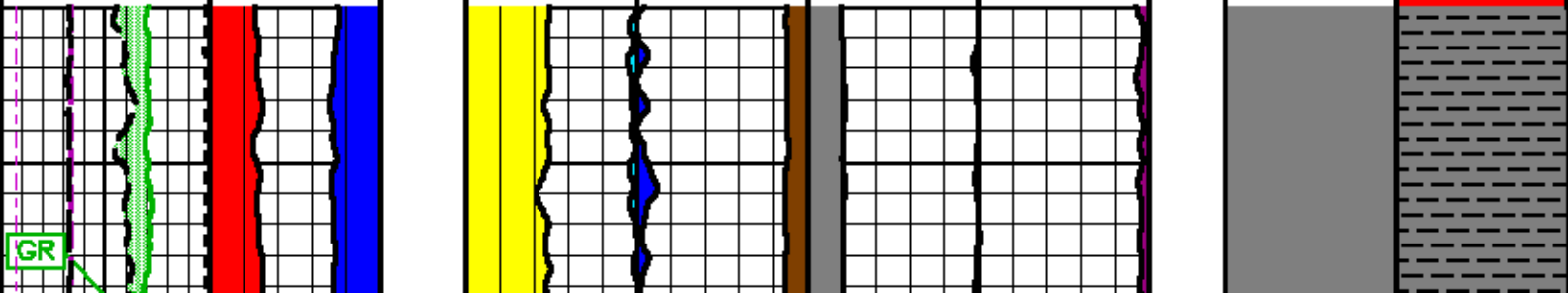
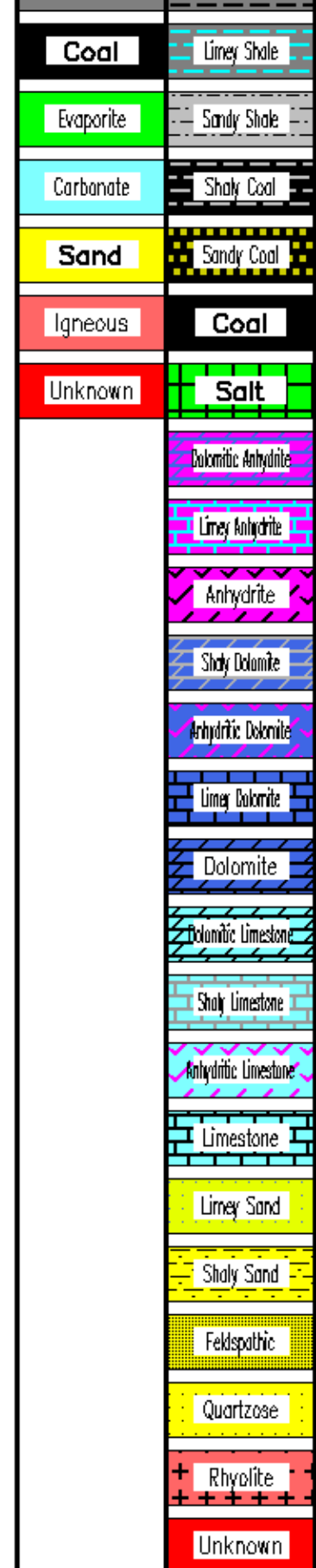
Presentation : epuz/dat1a/husky_GA212310/flex_main.pdf [1:240 Scale]
 Plot Interval : 1335 - 1888.04 Meters

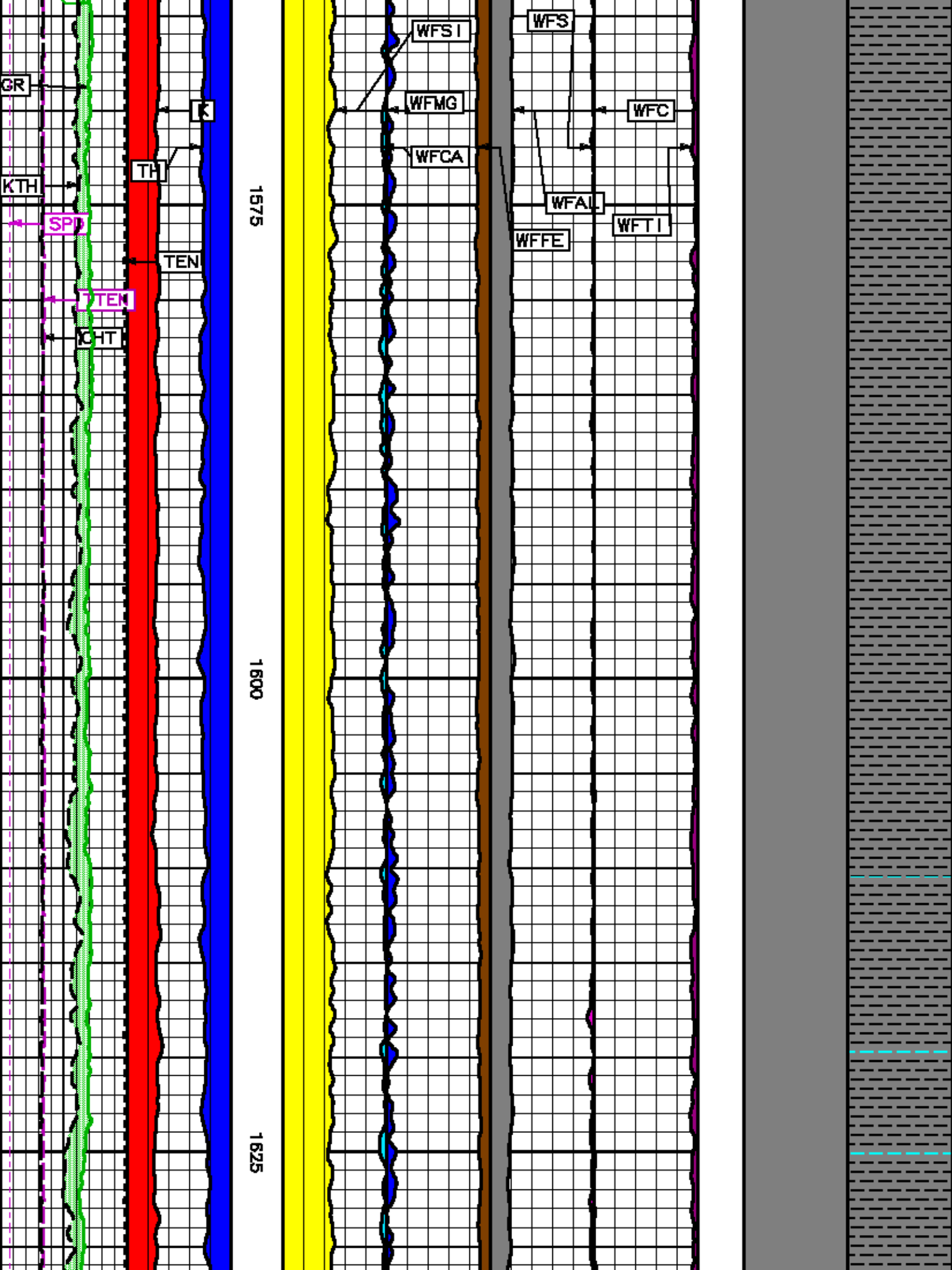
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 Created On : Feb 14 03:44:35 2012
 Company : HUSKY OIL OPERATIONS LIMITED
 Well : LITTLE BEAR N-9
 Field : SLATER RIVER
 File Interval : 1330.4 - 1888.42 Meters
 Oct : m876gf_X

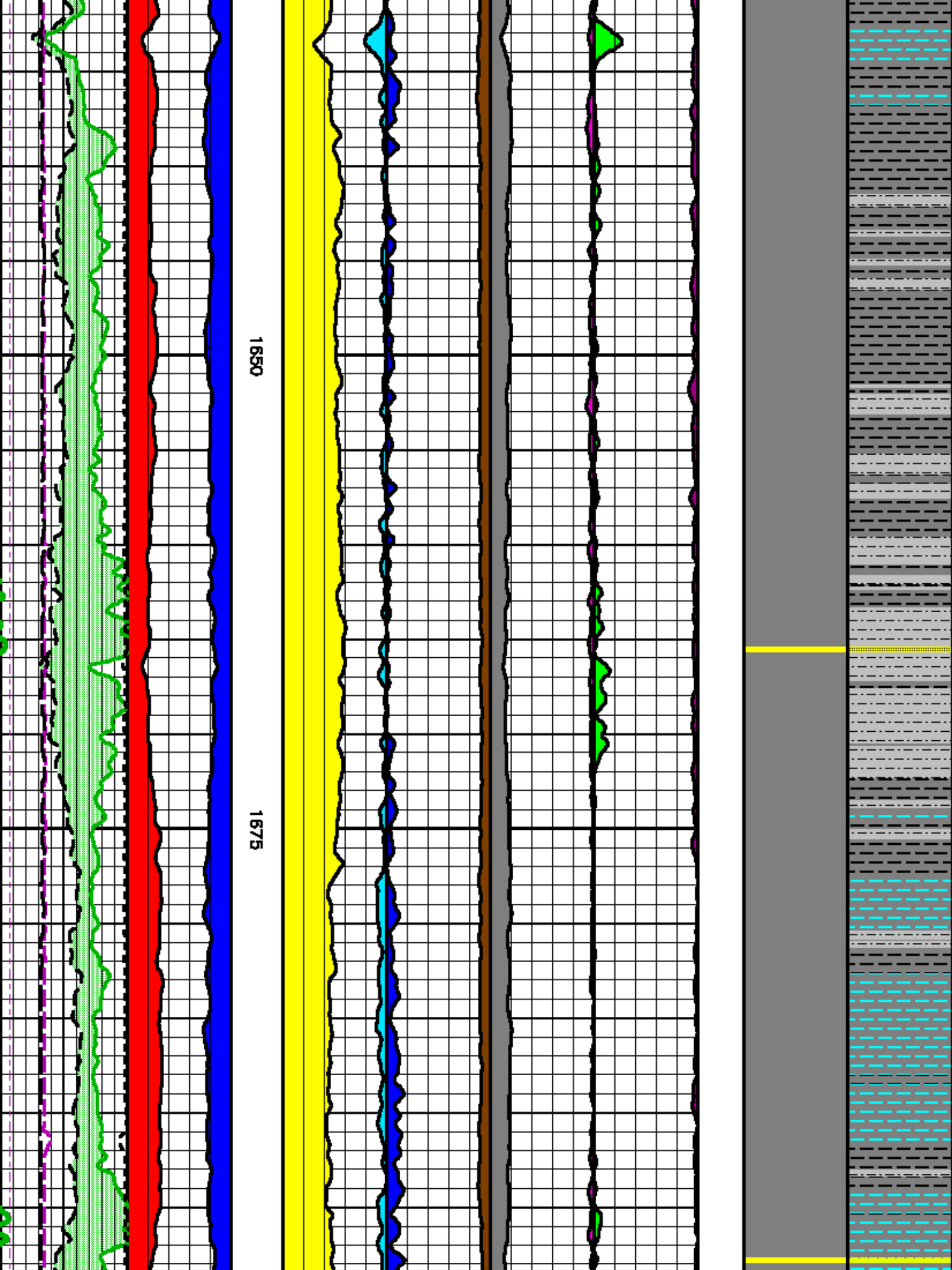
GR-KTH	Potassium	METERS	Weight Fractions	Weight Fractions	Weight Fractions	Weight Fractions	General Lithology	Specific Lithology
GAMMA RAY [gr]	Thorium		Silicon	Magnesium	Aluminum	Carbon	Shale	Shale
0								
150								

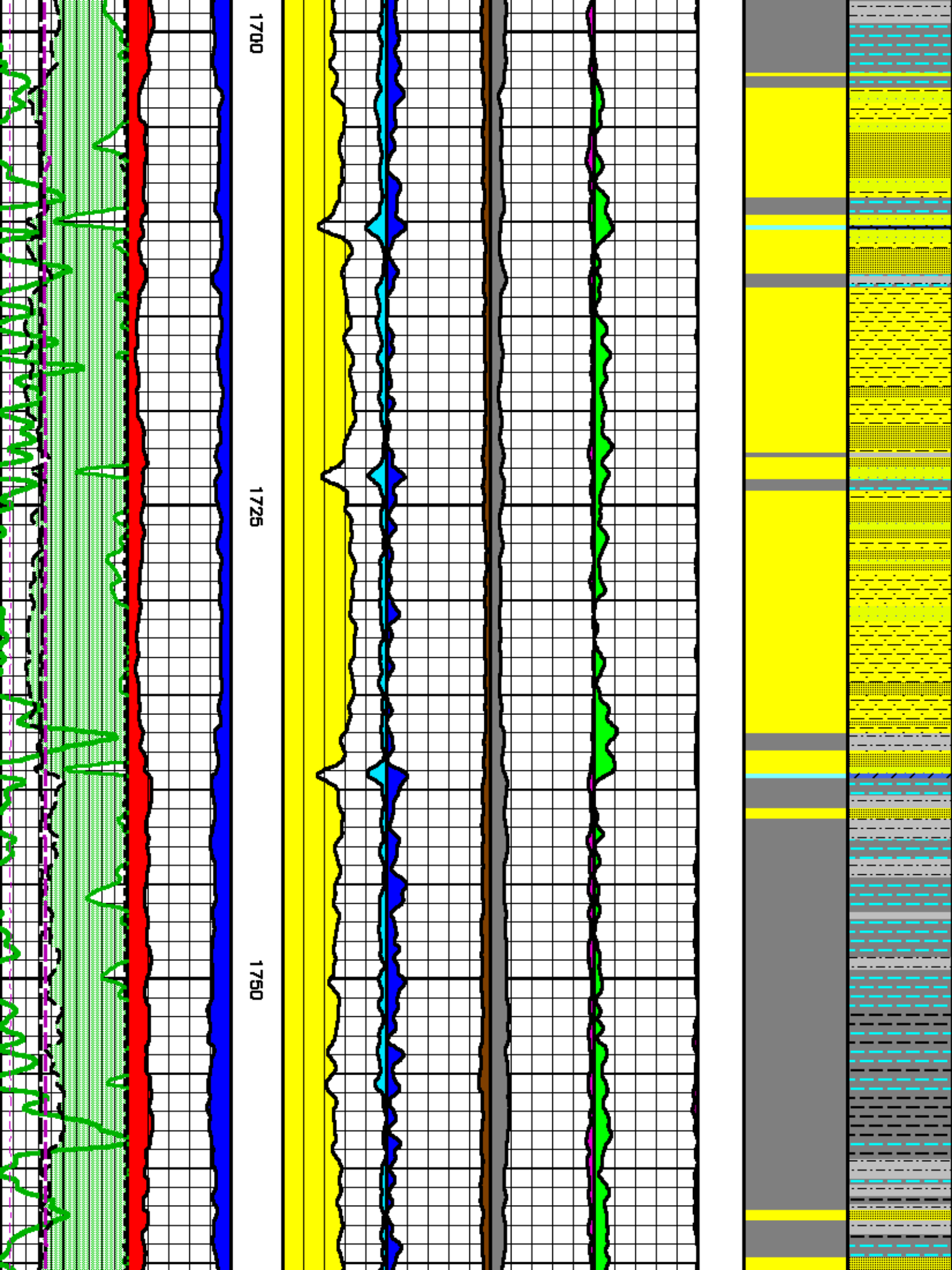


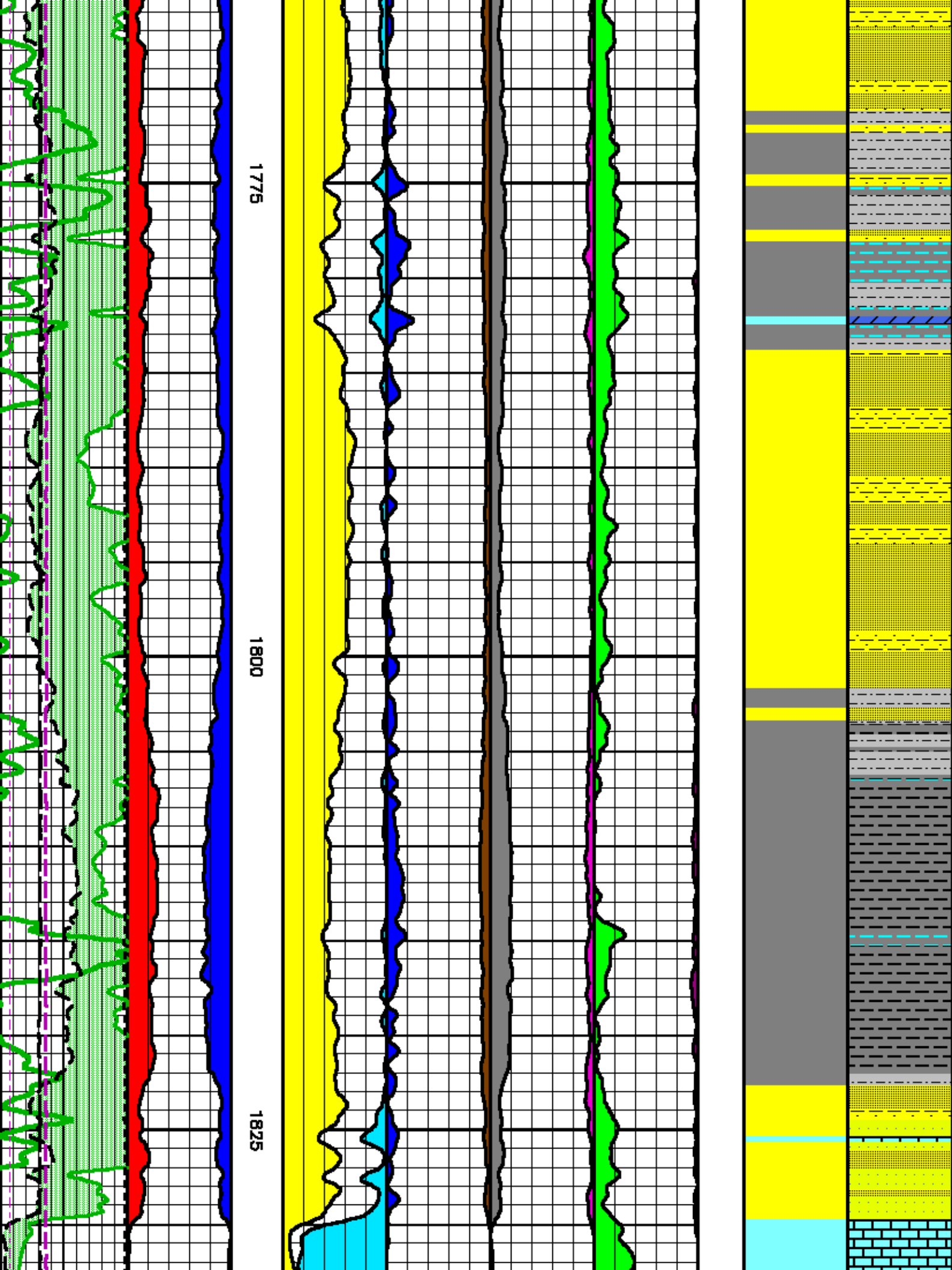
Calcium	Iron	Sulfur	Titanium
Silicon [wfsi] 0 0.5	Magnesium [wfmg] 0 0.25	Aluminum [wfal] 0 0.25	Carbon [wfc] 0 0.25
(1) Calcium [wfsa] 0.5 0	(1) Iron [wffe] 0.25 0	(1) Sulfur [wfs] 0.25 0	(1) Titanium [wfti] 0.1 0
(1)	(1)	(1)	(1)

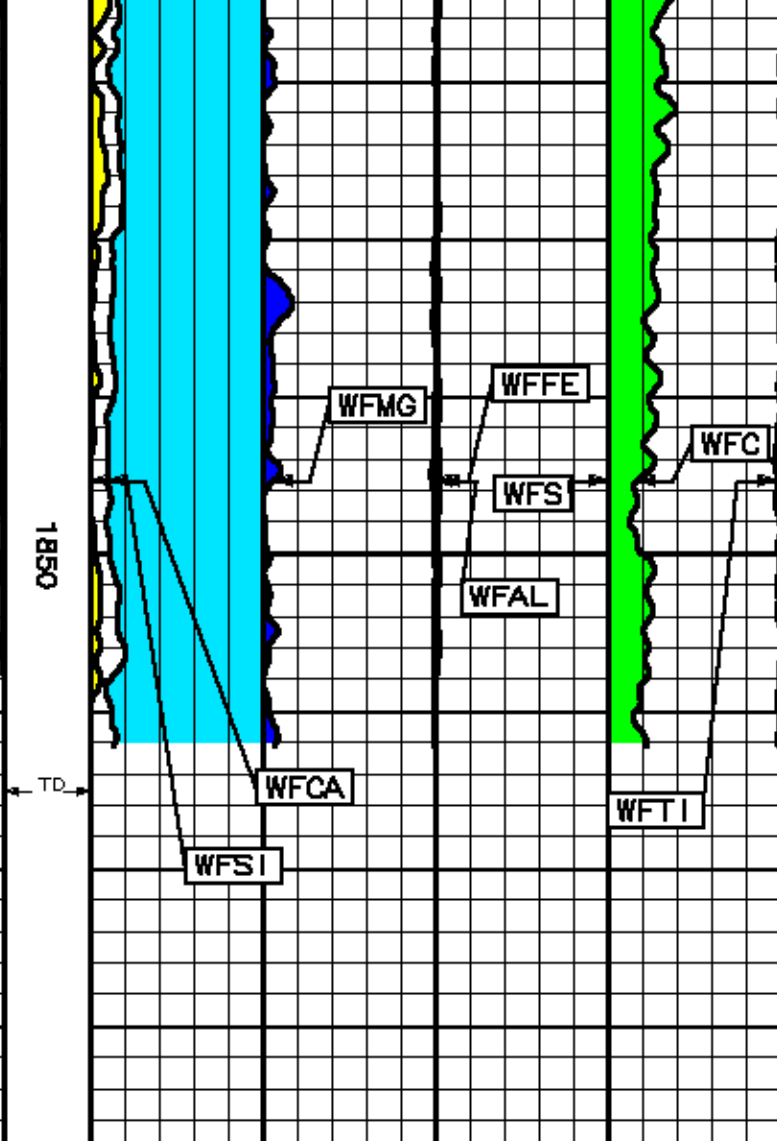
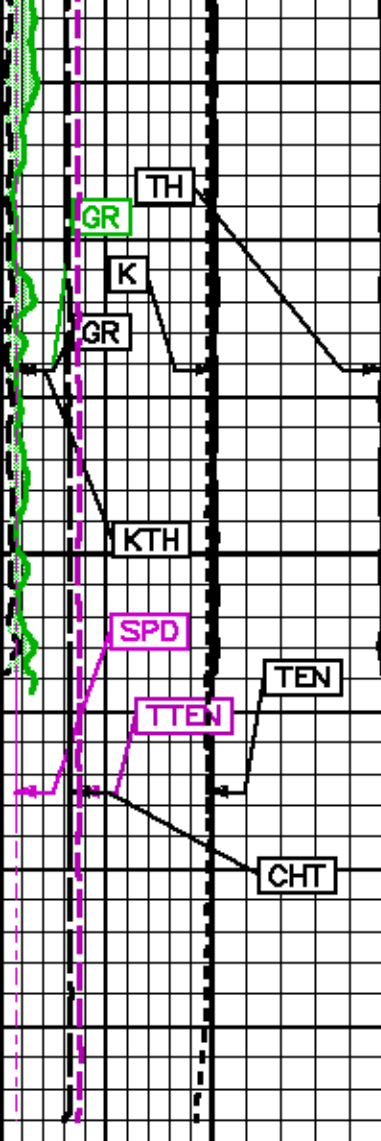












GR-KTH	Potassium
GAMMA RAY [gr] 0 150 (gAPI)	Thorium
GAMMA RAY SL2 [gr] 0 150 (gAPI)	Potassium [k] 0 10 (pct)
KTH [kth]	Thorium [th] 50 0 (ppm)
(gAPI)	
SPEED [spd] 0 20 (m/min)	
DIFF. TENSION [ten] 4900 -100 (kgf)	
TOTAL TENSION [tten] -100 4900 (kgf)	
CH-TENSION [cht] -100 2400 (kgf)	

Weight Fractions	Weight Fractions	Weight Fractions	Weight Fractions
Silicon	Magnesium	Aluminum	Carbon
Calcium	Iron	Sulfur	Titanium
Silicon [wfsi] 0 0.5	Magnesium [wfmg] 0 0.25	Aluminum [wfal] 0 0.25	Carbon [wfc] 0 0.25
(1) Calcium [wfca] 0.5 0	(1) Iron [wffe] 0.25 0	(1) Sulfur [wfs] 0.25 0	(1) Titanium [wfti] 0.1 0
(1)	(1)	(1)	(1)

General Lithology	Specific Lithology
Shale	Shale
Coal	Limy Shale
Evaporite	Sandy Shale
Carbonate	Shaly Coal
Sand	Sandy Coal
Igneous	Coal
Unknown	Salt
	Dolomitic Anhydrite
	Limy Anhydrite
	Anhydrite
	Shaly Dolomite

Anhydritic Dolomite
Limer Dolomite
Dolomite
Dolomitic Limestone
Shaly Limestone
Anhydritic Limestone
Limestone
Limer Sand
Shaly Sand
Feldspathic
Quartzose
Rhyolite
Unknown

REPEAT - FIELD PRESENTATION

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/husky_CA212310/m876gf_XC02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 1754.794 m BOTTOM DEPTH: 1858.252 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TTRM	FILTER (.td)	medium (1)		..	..
SPEED	FILTER ()	medium (1)		..	..
	FILTER (.h)	medium (1)		..	..
	FILTER (.i)	medium (1)		..	..
	TENSION	FILTER ()	medium (1)	..	..
	GR	FILTER ()	medium (1)		..
FILTER (.h)		medium (1)		..	..
FILTER (.i)		medium (1)		..	..
SL-11	FILTER	medium (1)		..	..
MREX - POROSITY	FILTER ()	medium (1)		..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MUD DENSITY	MUD DENSITY	1.29	g/cm3	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (fbh*)	USE FIXED SIZE		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (fbh*)	222.000	mm	"	"

SLII PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
SLII BOREHOLE	KCL MUD CONTENT	0	pot	TOP	BOTTOM
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		"	"
SLII AUTOGAIN	AUTO GAIN	AUTO GAIN ON		"	"
SLII ENERGY RANGE	ENERGY RANGE	NORMAL: 0.25-5.0 MeV		"	"
SPECTRUM CALIBRATION	MODE	AUTOMATIC		"	"

FLEX PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CAPTURE SUBTRACTION FACTOR	SUBTRACTION FACTOR	1.00		TOP	BOTTOM
BOREHOLE CORRECTIONS	BARITE MUD (BaSO4)	ON		"	"
	OIL BASED MUD FRAC	0.81		TOP	1848.326
		0.00		BOTTOM	BOTTOM
POROSITY CORRECTION SOURCE	POROSITY/FIXED VALUE	PREFERRED POROSITY		TOP	BOTTOM
	FIXED POROSITY	10.000	pu	"	"

FLEX SPECTRUM CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
SPECTRUM CALIBRATION	MODE	AUTOMATIC		TOP	BOTTOM
	MANUAL QM, CAPT	29.01949		"	"
	MANUAL QA, CAPT	-1.045475		"	"
	MANUAL QM, TOTL	29.14517		"	"
	MANUAL QA, TOTL	-0.957793		"	"

MREX ACQUISITION PARAMETERS

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MREX TOC	SUBSET 0 INTERVAL	12.000	s	TOP	BOTTOM
	NUM FREQ GROUPS	1		"	"
	1ST T2 TE	0.40	ms	"	"
	CBW TE	0.40	ms	"	"
	CBW TW	0.020	s	"	"

MREX PROCESSING

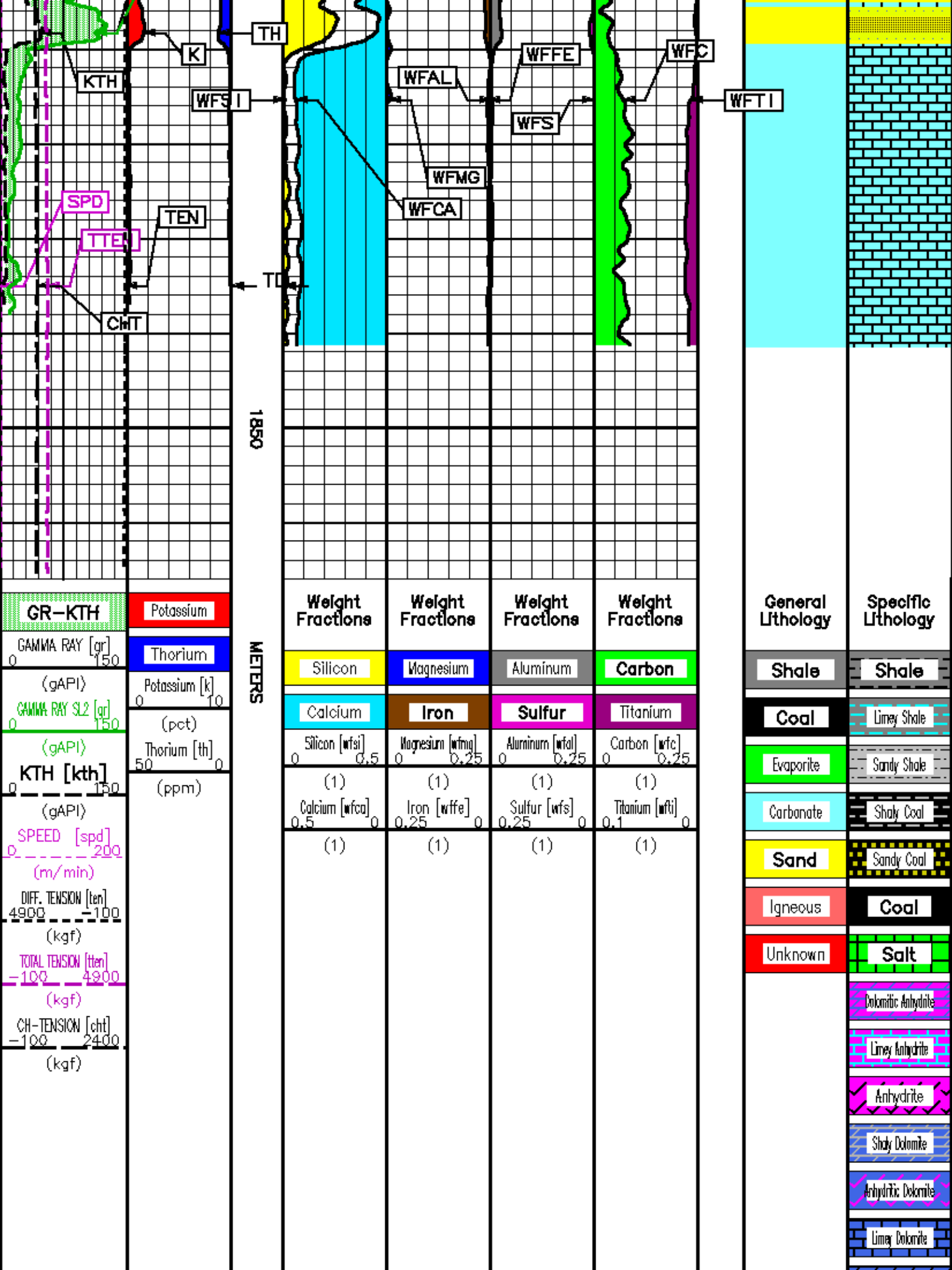
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)		
NOISE & CAL PULSE SELECTION	FREQ DISPLAY SELECT	FREQUENCY A		TOP	BOTTOM	
	POROSITY	NEVI/NEVM BOUNDARY	CLASTIC (33 ms)	"	"	
		USER NEVI/NEVM	33	ms	"	"
		CBW CUTOFF	3.4	ms	"	"
AVERAGING LENGTH (SAMPLES)	ET Averaging Length	5 samples		"	"	
RESET PHASE ROTATION ANGLE	RESET ACCUM. PHASE			"	"	
MREX FORMATION/BOREHOLE TEMP	BOREHOLE TEMP SRC	MEASURED (3961/3960)		"	"	

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CHT	0.00	SLIT	9.83	WFAL	9.83	WFS	9.83
GLIT	9.83	SPD	0.00	WFC	9.83	WFSI	9.83
GR	13.37	TEN	0.00	WFCA	9.83	WFTI	9.83
K	13.37	TH	13.37	WFFE	9.83		
KTH	13.37	TTEN	0.00	WFMG	9.83		

Presentation : epuas/datta/husky_CA212310/flex_repeat.pdf [1:240 Scale]
 Plot Interval : 1780 - 1857.8 Meters

Data File 1 : F1 : epuas/datta/husky_CA212310/m876gt_XC02.aiff
 Created On : Feb 14 02:28:42 2012
 Company : HUSKY OIL OPERATIONS LIMITED
 Well : LITTLE BEAR N-9



1850

METERS

GR-KTH	Potassium
GAMMA RAY [gr] 0 150	Thorium
(gAPI)	Potassium [k] 0 10
GAMMA RAY SL2 [gr] 0 150	(pct)
(gAPI)	Thorium [th] 50 0
KTH [kth]	(ppm)
(gAPI)	
SPEED [spd] 0 200	
(m/min)	
DIFF. TENSION [ten] 4900 -100	
(kgf)	
TOTAL TENSION [tten] -100 4900	
(kgf)	
CH-TENSION [cht] -100 2400	
(kgf)	

Weight Fractions	Weight Fractions	Weight Fractions	Weight Fractions
Silicon	Magnesium	Aluminum	Carbon
Calcium	Iron	Sulfur	Titanium
Silicon [wfsi] 0 0.5	Magnesium [wfmag] 0 0.25	Aluminum [wfal] 0 0.25	Carbon [wfc] 0 0.25
(1)	(1)	(1)	(1)
Calcium [wfca] 0.5 0	Iron [wffe] 0.25 0	Sulfur [wfs] 0.25 0	Titanium [wfti] 0.1 0
(1)	(1)	(1)	(1)

General Lithology	Specific Lithology
Shale	Shale
Coal	Limey Shale
Evaporite	Sandy Shale
Carbonate	Shaly Coal
Sand	Sandy Coal
Igneous	Coal
Unknown	Salt

- Dolomitic Anhydrite
- Limey Anhydrite
- Anhydrite
- Shaly Dolomite
- Anhydritic Dolomite
- Limey Dolomite

Dolomite
Dolomitic Limestone
Shaly Limestone
Anhydritic Limestone
Limestone
Limey Sand
Shaly Sand
Feldspathic
Quartzose
Rhyolite
Unknown

CALIBRATION / VERIFICATION SUMMARY

Source File: /data/husky_CA212510/m876gf_XC.fpl

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 11756674 DATE/TIME PERFORMED: Sat Feb 11 15:40:57 2012

UNIT #: 3854SA 008672 CALB JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	34.36	938.07	903.7 <small>830.0 980.0</small>	0.166	5.70	155.70	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 11756674 DATE/TIME PERFORMED: Sat Feb 11 15:55:48 2012

UNIT #: 3854SA 008672 VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	33.04	928.56	0.166	5.48	154.12	148.64

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674 DATE/TIME PERFORMED: Sat Feb 11 16:23:14 2012 DAYS SINCE CAL: 0

UNIT #: 3854SA 008672 VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	36.04	928.44	0.166	5.98	154.11	148.12
						138.64 158.84

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674 DATE/TIME PERFORMED: Mon Feb 13 12:23:20 2012 DAYS SINCE CAL: 1

UNIT #: 3854SA 008672 VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	181.31	1042.73	0.166	30.09	173.08	142.98
						138.12 158.12

SL II PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 11756674 DATE/TIME PERFORMED: Sat Feb 11 16:07:57 2012

UNIT #: 3854SA 008672 CALIBRATOR ID: 4702NA DA-554

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	31.88	930.89	0.168	5.31	155.31	150

	Std Rate (cts/s)	Meas Rate (cts/s)	Tool Norm	Std Mult	Log Mult	App Con (pct ppm)
E (.25-3.0)	554	549.0	1.009			
			0.800 1.100			

K 0.01602 0.01617 8.900

U 0.03851 0.03886 21.300

TH 0.10135 0.10227 56.100

	Mult chnl/MeV	Add chnls	QSA	QCAL	GAIN	U Pk Res %
SPECTRUM	70.980	1.124	0.969	0.993	3042	8.55
			0.000 1.000	0.980 1.020	2850 3050	10.00

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.32	44.52	81.49	126.96	156.75
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	26.11	44.35	80.62	126.40	157.56

SL II PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Sat Feb 11 16:13:30 2012

UNIT #: 3854SA 008672

CALIBRATOR ID: 4702NA DA-554

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	32.83	930.43	0.168	5.49	155.34	150
						138 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.25-3.0)	554	552.2	1.009			

K	0.01602	0.01617	8.927
			8.010 8.790
U	0.03851	0.03886	21.460
			19.170 23.430
TH	0.01602	0.10227	56.479
			50.490 61.710

	Mult chnl/MeV	Add chnls	QSA	QCAL	GAIN	U Pk Res %
SPECTRUM	71.411	1.016	0.848	0.998	3042	9.13
			0.000 1.000	0.980 1.020		

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.30	44.79	82.01	127.11	157.91
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	26.15	44.51	81.00	127.06	158.41

SL II BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Sat Feb 11 16:22:42 2012

DAYS SINCE CAL: 0

UNIT #: 3854SA 008672

CALIBRATOR ID: 4702NA DA-554

Bkgnd	Cal ON	Mult	Bkgnd	Cal ON	Cal Value
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(cts/s) (cts/s) (gAPI/(cts/s)) (gAPI) (gAPI) (gAPI)

GR-SL (.06-3.5)

Std rate Meas rate Tool norm Std Mult Log Mult App Con
 (cts/s) (cts/s) (pct ppm)

E (.25-3.0)

K

U

TH

Mult Add QSA QCAL GAIN U Pk Res
 chnl/MeV chnls %

SPECTRUM

P1 P2 P3 P4 P5
 .352 MeV .609 MeV 1.120 MeV 1.765 MeV 2.204 MeV

Std Pk

Meas Pk

Fit Pk

SL II AFTER LOG VERIFICATION SUMMARY

TOOL #: DATE/TIME PERFORMED: DAYS SINCE CAL:

UNIT #: CALIBRATOR ID:

Bkgnd Cal ON Mult Bkgnd Cal ON Cal Value
 (cts/s) (cts/s) (gAPI/(cts/s)) (gAPI) (gAPI) (gAPI)

GR-SL (.06-3.5)

Std rate Meas rate Tool norm Std Mult Log Mult App Con
 (cts/s) (cts/s) (pct ppm)

E (.25-3.0)

K

U

TH

Mult Add QSA QCAL GAIN U Pk Res
 chnl/MeV chnls %

SPECTRUM

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.22	44.88	82.34	128.12	158.82
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	26.09	44.59	81.39	127.85	159.46

FLEX_CAL PRIMARY CALIBRATION SUMMARY

TOOL: 1338XA 10436765

DATE/TIME PERFORMED: Mon Jan 16 18:07:27 2012

UNIT: 3854SA 008672

CALIBRATOR: 2437XB 112675

SOURCE: 1338AA 10440523

HOURS: 1338AA 188

Mtr Vlt (V)	Gain	Flask Temp (degC)	Sync Delay (usec)	MCSTCR (Cts/s)	PHATCR (Cts/s)	PHACSH (Cts/s)	PHAISH (Cts/s)	Boron (%)	H Pk Res (%)
96	1371	13.8	13.0	92194	92614	13981	33445	100	12.0
				96000 94000	86000 84000	12300 14500	29800 36300	90 100	10.0 13.0

	Standard (Ch)	Measured (Ch)	Fit (Ch)	Difference (Ch)
Capt H (1.712 MeV)	48.90	48.664	48.636	0.028
Capt H (2.223 MeV)	63.50	63.434	63.465	-0.030
		63.300 63.700		
Capt Fe(7.638 MeV)	218.18	220.608	220.605	0.003
Tot H (2.223 MeV)	63.50	63.708	63.832	-0.124
Tot C (4.438 MeV)	126.77	128.586	128.388	0.198
Tot O (6.130 MeV)	175.10	177.792	177.702	0.090
Tot O (7.035 MeV)	200.96	203.914	204.079	-0.164
Bkgd Fe(0.847 MeV)	24.19	24.367	24.442	-0.075
Bkgd Ti(1.555 MeV)	44.42	45.252	45.164	0.088
Bkgd O (6.130 MeV)	175.10	179.053	179.064	-0.011

	Peaks Found	Mult (ch/MeV)	Additive (ch)	Chi Square QSA	Fit Quality QCAL
Capture	3	29.019	-1.045	0.001	1.016
	3 3			0.000 0.050	0.950 1.050
Total	4	29.145	-0.958	0.022	1.020
	4 4			0.000 0.050	0.950 1.050
Background	3	29.268	-0.347	0.005	1.025
	3 3			0.000 0.500	0.950 1.050

Capt Hydrogen Capt Iron Inel Carbon Inel Oxygen

Yields	0.796	0.204	0.181	0.819
	0.780 0.825	0.175 0.220	0.180 0.205	0.785 0.820



COMPANY HUSKY OIL OPERATIONS LIMITED
WELL LITTLE BEAR N-9
FIELD SLATER RIVER
PROVINCE NORTHWEST TERRITORIES

FILE NO:

API NO:

LOCATION:
SURF LOC: LAT 64° 58' 55.2N
 LONG 126° 31' 20.2"W
BH LOC. LSD:
 LAT 64° 58' 55.2"N LONG 126° 31' 20.2"

ELEVATIONS:
KB 258.8 M
DF
GL 253.5 M
DATE 13-FEB-2012

UID:
300N096500126300
LICENSE:
463

