

Company: Essential Petroleum Resources Limited

Well: Killarney EPRL 1

Field: PEP 152

Rig: Hunt Rig #2

Country: **Australia**

CSI Seismic Final Print

<h1>CSI Seismic</h1> <h2>Final Print</h2>			
LOCATION			
Datum GDA94 MGA94 Zone 54 Easting 609803.3 Northing 5753917.2		Elev.: K.B. 5.49 m G.L. 1.6 m D.F. 5.49 m	
Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____		Elev.: 0 m _____ 5.5 m above Perm. Datum	
ROTARY TABLE ROTARY TABLE			
State: _____ Victoria	Max. Well Deviation 2 deg	Longitude 142° 15' 24.22" E	Latitude 38° 21' 22.24" S

[illegible]

Logging Date	18-Jun-2004			Logging Date			
Run Number	1			Run Number			
Depth Driller	1640 m			Depth Driller			
Schlumberger Depth	1634.8 m			Schlumberger Depth			
Bottom Log Interval	1632.4 m			Bottom Log Interval			
Top Log Interval	255.5 m			Top Log Interval			
Casing Driller Size @ Depth	9.625 in @ 255.8 m			Casing Driller Size @ Depth	@		
Casing Schlumberger	255.5 m			Casing Schlumberger			
Bit Size	8.500 in			Bit Size			
Type Fluid In Hole	4% KCl-PHPA			Type Fluid In Hole			
Density	1.128 g/cm3		43 s	Density			
Fluid Loss	PH		8.5	Fluid Loss	PH		
Source Of Sample	PIT			Source Of Sample	MUD		
RM @ Measured Temperature	0.231 ohm.m @ 13 degC			RM @ Measured Temperature	@		
RMF @ Measured Temperature	0.201 ohm.m @ 12 degC			RMF @ Measured Temperature	@		
RMC @ Measured Temperature	0.243 ohm.m @ 13 degC			RMC @ Measured Temperature	@		
Source RMF	RMC		PRESS	Source RMF	RMC		
RM @ MRT	RMF @ MRT		0.093 @ 63 @ 0.080 @ 63	RM @ MRT	RMF @ MRT		@ @ @
Maximum Recorded Temperatures	63 degC		61	Maximum Recorded Temperatures			
Circulation Stopped	18-Jun-2004		0:00	Circulation Stopped	Time		
Logger On Bottom	18-Jun-2004		16:30	Logger On Bottom	Time		
Unit Number	Location		3170 QEA	Unit Number	Location		
Recorded By	G. Jonsson			Recorded By			
Witnessed By	G. Wakein-King			Witnessed By			

Run 2

Date Created: 22-JUN-2004 12:26:46

Logging Cable

Type:	7-42V
Serial Number:	78197
Length:	3699.97 M
Conveyance Method:	Wireline
Rig Type:	LAND

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 M
Rig Up Length At Bottom:	0.00 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	0.80 M
Tool Zero Check At Surface:	0.35 M

1. Depth correlated to downlog.
2. Cable stretch and rig up changes accounted for.
3. IDW wheel corrections set to -2
- 4.
- 5.
- 6.

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES2
OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 2

1 shot per level used to reduce exposure to explosives where possible

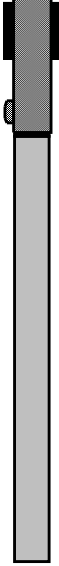
Assumed surface velocity of 1524 m/s due to lack of signal at SRD	
Additional Mud information:	
Chloride: 21500 mg/L, Calcium: 320 mg/L, Sulphite: 80mg/L, KCl: 4.1%	
Barite present in mud	
Elevation Rotary Table= 3.89m above Ground Level (GL= 1.6m AHD)	

RUN 1 SERVICE ORDER #: PROGRAM VERSION: 10C0-306 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION	
RUN 1	RUN 2

SURFACE EQUIPMENT		
WSAM		
WITM (CTS)-A		

DOWNHOLE EQUIPMENT		
LEH-QT LEH-QT		7.40
TCC-BF ECH-KC TCC-BF		6.51
	TelStatus	5.59
CSAT-B1 CSSH CSSC-A CSAS-A Shaker CSAH-A CSAC-A STAND-LO STAND-HI CSAD-B		5.59
	CSAT-1 Ar	4.03
	CSAT-1 Su	3.04



BNS-CCS
BNS-CCS

Tension HV

DF
TOOL ZERO

0.00 0.14

MAXIMUM STRING DIAMETER 4.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Client: Essential
Well: Kilarney-1
Field: Wildcat
State: Victoria
Country: Australia

Drawing Date: 6/18/2004
API #:

Rig Name: Hunt Rig 2
Reference Datum: KB
Elevation: 6.9 m

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	17.500		Borehole Segment Casing String Casing Shoe Borehole Segment Casing String
					0.0	13.375		
					45.6	13.375		
					45.9	12.250		
					0.0	9.625		
					255.8	9.625		Casing Shoe
					258.0	8.500		Borehole Segment

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Schlumberger

Main Log

MAXIS Field Log

Output DLIS Files

DEFAULT	SEIS_CSI_019PNP	FN:81	PRODUCER	28-Jun-2004 17:43	0.0 M	0.0 M
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OP System Version: 10C0-306
MCM

CSAT-B1	10C0-306	TCC-BF	10C0-306
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STACK # 18 19-Jun-2004-01:12 Shots: 63
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 0 ms

S1, pp= 23694 bits = 3615.5276 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 247.0 M , Transit Time = 117.17 ms Geophone Accelerometer Integration Done

DZ1, pp= 55004 bits = 4.0699 mV 0.170 M/S2, Gain = 4, Break= 713.25 ms

DY1, pp= 40520 bits = 0.7495 mV 0.031 M/S2, Gain = 16

DX1, pp= 31159 bits = 0.2882 mV 0.012 M/S2, Gain = 32

SeisWfPlot (SeisWfPlot)

0

(MS)

2100

STACK # 17 19-Jun-2004-00:52 Shots: 59

Source Offset Distance = 9.0 M Azimuth = 90.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 0 ms

S1, pp= 23551 bits = 3593.7068 mV, Gain = 1, Break= 596.08 ms

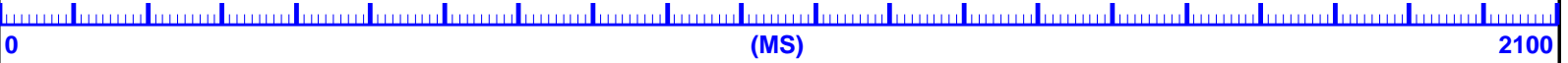
CSAT1 Depth = 420.0 M , Transit Time = 203.51 ms Geophone Accelerometer Integration Done

DZ1, pp= 44427 bits = 0.8218 mV 0.034 M/S2, Gain = 16, Break= 799.59 ms

DY1, pp= 14364 bits = 0.2657 mV 0.011 M/S2, Gain = 16

DX1, pp= 10194 bits = 0.1886 mV 0.007883 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)



STACK # 16 19-Jun-2004-00:42 Shots: 55
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 100 ms

S1, pp= 23724 bits = 3620.1055 mV, Gain = 1, Break= 596.08 ms

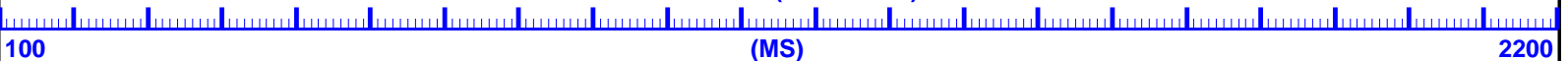
CSAT1 Depth = 537.0 M , Transit Time = 256.22 ms Geophone Accelerometer Integration Done

DZ1, pp= 14845 bits = 0.2746 mV 0.011 M/S2, Gain = 16, Break= 852.30 ms

DY1, pp= 1117 bits = 0.0207 mV 0.000864 M/S2, Gain = 16

DX1, pp= 1804 bits = 0.0334 mV 0.001395 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)



STACK # 15 19-Jun-2004-00:23 Shots: 45
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 100 ms

S1, pp= 23685 bits = 3614.1543 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 685.0 M , Transit Time = 314.44 ms Geophone Accelerometer Integration Done

DZ1, pp= 22034 bits = 0.2038 mV 0.008520 M/S2, Gain = 32, Break= 910.52 ms

DY1, pp= 2026 bits = 0.0187 mV 0.000783 M/S2, Gain = 32

DX1, pp= 1263 bits = 0.0234 mV 0.000977 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)

100

(MS)

2200

STACK # 14 19-Jun-2004-00:16 Shots: 43

Source Offset Distance = 9.0 M Azimuth = 90.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 100 ms

S1, pp= 23606 bits = 3602.0996 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 784.9 M , Transit Time = 351.05 ms Geophone Accelerometer Integration Done

DZ1, pp= 37079 bits = 0.3429 mV 0.014 M/S2, Gain = 32, Break= 947.13 ms

DY1, pp= 3789 bits = 0.0350 mV 0.001465 M/S2, Gain = 32

DX1, pp= 2008 bits = 0.0371 mV 0.001553 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)



STACK # 13 19-Jun-2004-00:11 Shots: 40
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 100 ms

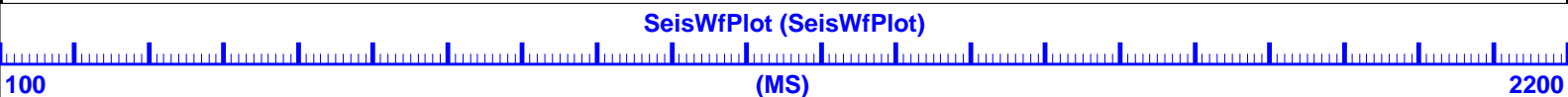
S1, pp= 23601 bits = 3601.3364 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 865.9 M , Transit Time = 381.88 ms Geophone Accelerometer Integration Done

DZ1, pp= 48729 bits = 0.2253 mV 0.009421 M/S2, Gain = 64, Break= 977.96 ms

DY1, pp= 1716 bits = 0.0159 mV 0.000664 M/S2, Gain = 32

DX1, pp= 1296 bits = 0.0240 mV 0.001002 M/S2, Gain = 16



STACK # 12 18-Jun-2004-23:58 Shots: 38
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 23517 bits = 3588.5188 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 1169.7 M , Transit Time = 492.02 ms Geophone Accelerometer Integration Done

DZ1, pp= 25325 bits = 0.1171 mV 0.004896 M/S2, Gain = 64, Break= 1088.10 ms

DY1, pp= 7910 bits = 0.0732 mV 0.003059 M/S2, Gain = 32

DX1, pp= 916 bits = 0.0169 mV 0.000708 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)

200

(MS)

2300

STACK # 11 18-Jun-2004-23:52 Shots: 36
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 23675 bits = 3612.6284 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 1235.0 M , Transit Time = 517.35 ms Geophone Accelerometer Integration Done

DZ1, pp= 16466 bits = 0.0761 mV 0.003183 M/S2, Gain = 64, Break= 1113.42 ms

DY1, pp= 1778 bits = 0.0164 mV 0.000687 M/S2, Gain = 32

DX1, pp= 1432 bits = 0.0265 mV 0.001107 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)

200

(MS)

2300

STACK # 10 18-Jun-2004-23:47 Shots: 35
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 23567 bits = 3596.1484 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 1280.1 M , Transit Time = 531.09 ms Geophone Accelerometer Integration Done

DZ1, pp= 22756 bits = 0.1052 mV 0.004399 M/S2, Gain = 64, Break= 1127.17 ms

DY1, pp= 2994 bits = 0.0277 mV 0.001158 M/S2, Gain = 32

DX1, pp= 673 bits = 0.0124 mV 0.000520 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)

200

(MS)

2300

STACK # 9 18-Jun-2004-23:37 Shots: 32
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 23687 bits = 3614.4595 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 1395.0 M , Transit Time = 573.55 ms Geophone Accelerometer Integration Done

DZ1, pp= 26856 bits = 0.1242 mV 0.005192 M/S2, Gain = 64, Break= 1169.63 ms

DY1, pp= 59475 bits = 0.5501 mV 0.023 M/S2, Gain = 32

DX1, pp= 27586 bits = 0.5103 mV 0.021 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)

200

(MS)

2300

STACK # 8 18-Jun-2004-23:32 Shots: 30

Source Offset Distance = 9.0 M Azimuth = 90.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 23604 bits = 3601.7942 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 1415.0 M , Transit Time = 580.39 ms Geophone Accelerometer Integration Done

DZ1, pp= 13676 bits = 0.0632 mV 0.002644 M/S2, Gain = 64, Break= 1176.47 ms

DY1, pp= 2154 bits = 0.0199 mV 0.000833 M/S2, Gain = 32

DX1, pp= 621 bits = 0.0115 mV 0.000480 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)

200

(MS)

2300

STACK # 7 18-Jun-2004-23:25 Shots: 27

Source Offset Distance = 9.0 M Azimuth = 90.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 23565 bits = 3595.8433 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 1494.9 M , Transit Time = 606.48 ms Geophone Accelerometer Integration Done

DZ1, pp= 10771 bits = 0.0498 mV 0.002082 M/S2, Gain = 64, Break= 1202.56 ms

DY1, pp= 6779 bits = 0.0627 mV 0.002621 M/S2, Gain = 32

DX1, pp= 968 bits = 0.0179 mV 0.000749 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)

200

(MS)

2300

STACK # 6 18-Jun-2004-23:17 Shots: 25

Source Offset Distance = 9.0 M Azimuth = 90.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 300 ms

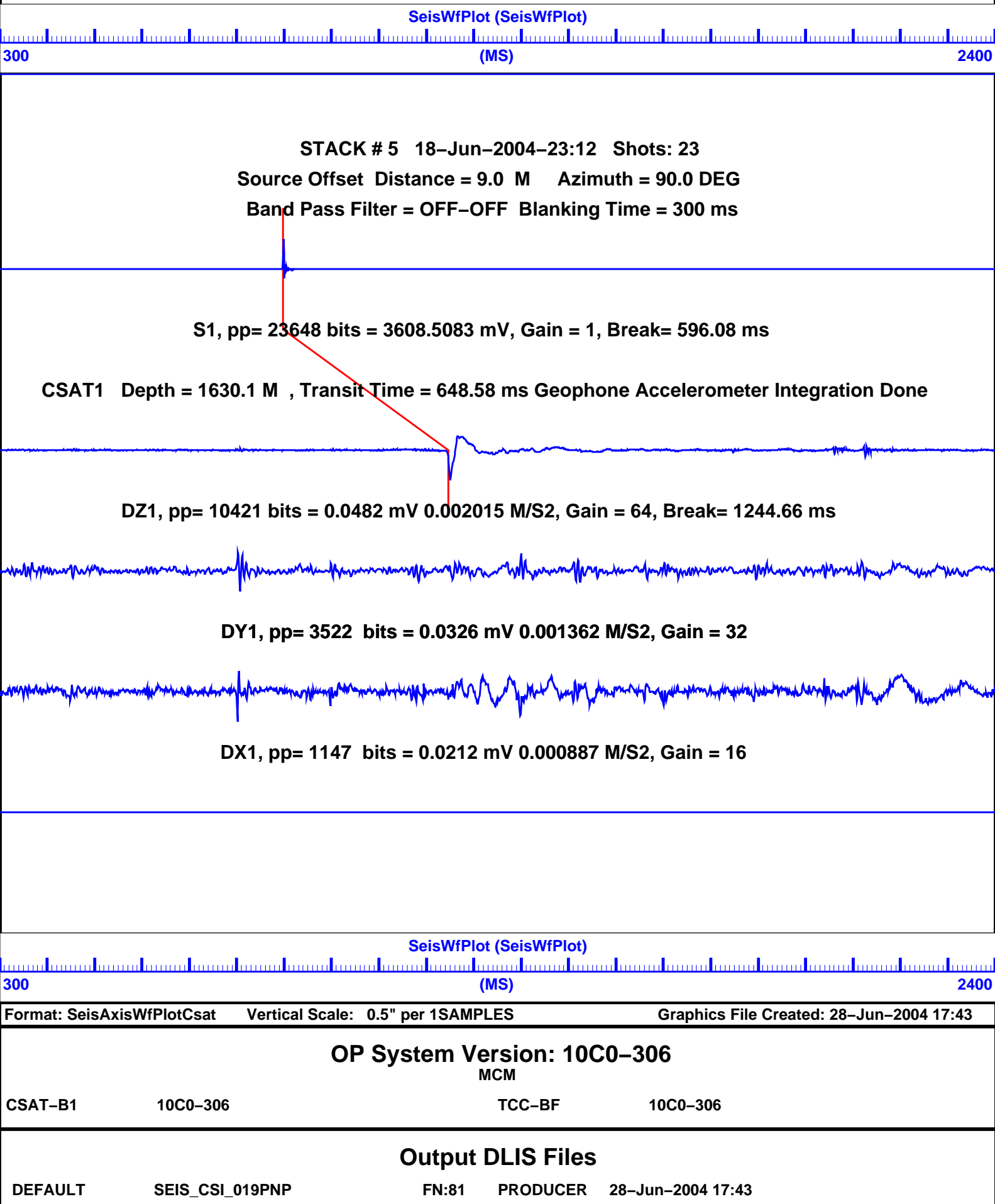
S1, pp= 23750 bits = 3624.0728 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 1575.0 M , Transit Time = 631.54 ms Geophone Accelerometer Integration Done

DZ1, pp= 11818 bits = 0.0547 mV 0.002285 M/S2, Gain = 64, Break= 1227.62 ms

DY1, pp= 624 bits = 0.0058 mV 0.000241 M/S2, Gain = 32

DX1, pp= 384 bits = 0.0071 mV 0.000297 M/S2, Gain = 16



Output DLIS Files

DEFAULT SEIS_CSI_019PNP FN:81 PRODUCER 28-Jun-2004 17:44 0.0 M 0.0 M

OP System Version: 10C0-306
MCM

CSAT-B1 10C0-306 TCC-BF 10C0-306

STACK # 4 18-Jun-2004-22:56 Shots: 18
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 23776 bits = 3628.0403 mV, Gain = 1, Break= 596.07 ms

CSAT1 Depth = 1415.0 M , Transit Time = 581.11 ms Geophone Accelerometer Integration Done

DZ1, pp= 9429 bits = 0.1744 mV 0.007292 M/S2, Gain = 16, Break= 1177.18 ms

DY1, pp= 29561 bits = 0.0684 mV 0.002858 M/S2, Gain = 128

DX1, pp= 46629 bits = 0.0539 mV 0.002254 M/S2, Gain = 256

STACK # 3 18-Jun-2004-22:26 Shots: 13
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 100 ms

S1, pp= 23499 bits = 3585.7720 mV, Gain = 1, Break= 596.08 ms

CSAT1 Depth = 784.9 M , Transit Time = 353.41 ms Geophone Accelerometer Integration Done

DZ1, pp= 10529 bits = 0.1948 mV 0.008142 M/S2, Gain = 16, Break= 949.49 ms

DY1, pp= 11323 bits = 0.0262 mV 0.001095 M/S2, Gain = 128

DX1, pp= 11336 bits = 0.0262 mV 0.001096 M/S2, Gain = 128

SeisWfPlot (SeisWfPlot)



STACK # 2 18-Jun-2004-22:05 Shots: 10
Source Offset Distance = 9.0 M Azimuth = 90.0 DEG
Band Pass Filter = OFF-OFF Blanking Time = 0 ms

S1, pp= 23765 bits = 3626.3618 mV, Gain = 1, Break= 596.07 ms

CSAT1 Depth = 420.0 M , Transit Time = 202.89 ms Geophone Accelerometer Integration Done

DZ1, pp= 28741 bits = 1.0633 mV 0.044 M/S2, Gain = 8, Break= 798.97 ms

DY1, pp= 46464 bits = 0.4297 mV 0.018 M/S2, Gain = 32

DX1, pp= 28061 bits = 0.5191 mV 0.022 M/S2, Gain = 16

SeisWfPlot (SeisWfPlot)

0

(MS)

2100

STACK # 1 18-Jun-2004-21:47 Shots: 6

Source Offset Distance = 9.0 M Azimuth = 90.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 0 ms

S1, pp= 23625 bits = 3604.9988 mV, Gain = 1, Break= 596.08 ms

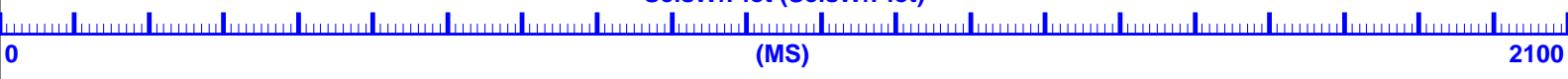
CSAT1 Depth = 247.0 M , Transit Time = 117.09 ms Geophone Accelerometer Integration Done

DZ1, pp= 23560 bits = 6.9730 mV 0.292 M/S2, Gain = 1, Break= 713.17 ms

DY1, pp= 2631 bits = 0.7787 mV 0.033 M/S2, Gain = 1

DX1, pp= 2062 bits = 0.6103 mV 0.026 M/S2, Gain = 1

SeisWfPlot (SeisWfPlot)



Format: SeisAxisWfPlotCsat Vertical Scale: 0.5" per 1SAMPLES Graphics File Created: 28-Jun-2004 17:43

OP System Version: 10C0-306
MCM

CSAT-B1 10C0-306 TCC-BF 10C0-306

Output DLIS Files

DEFAULT SEIS_CSI_019PNP FN:81 PRODUCER 28-Jun-2004 17:44

Schlumberger

VSP HBTA

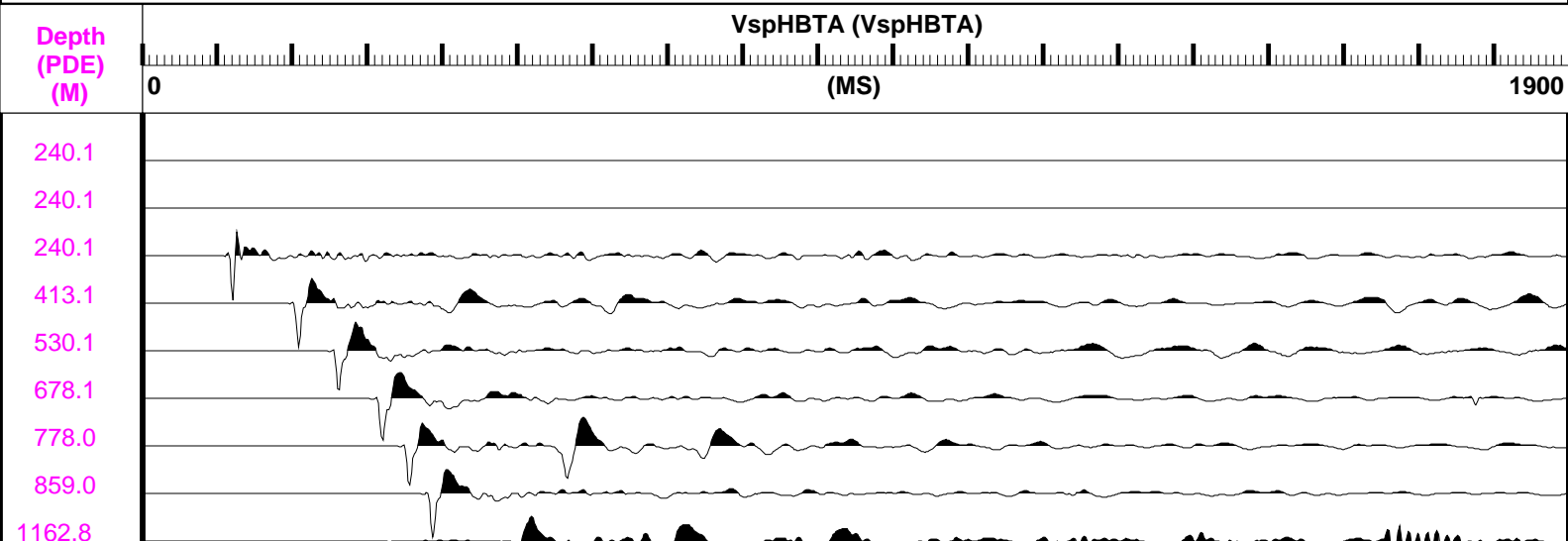
MAXIS Field Log

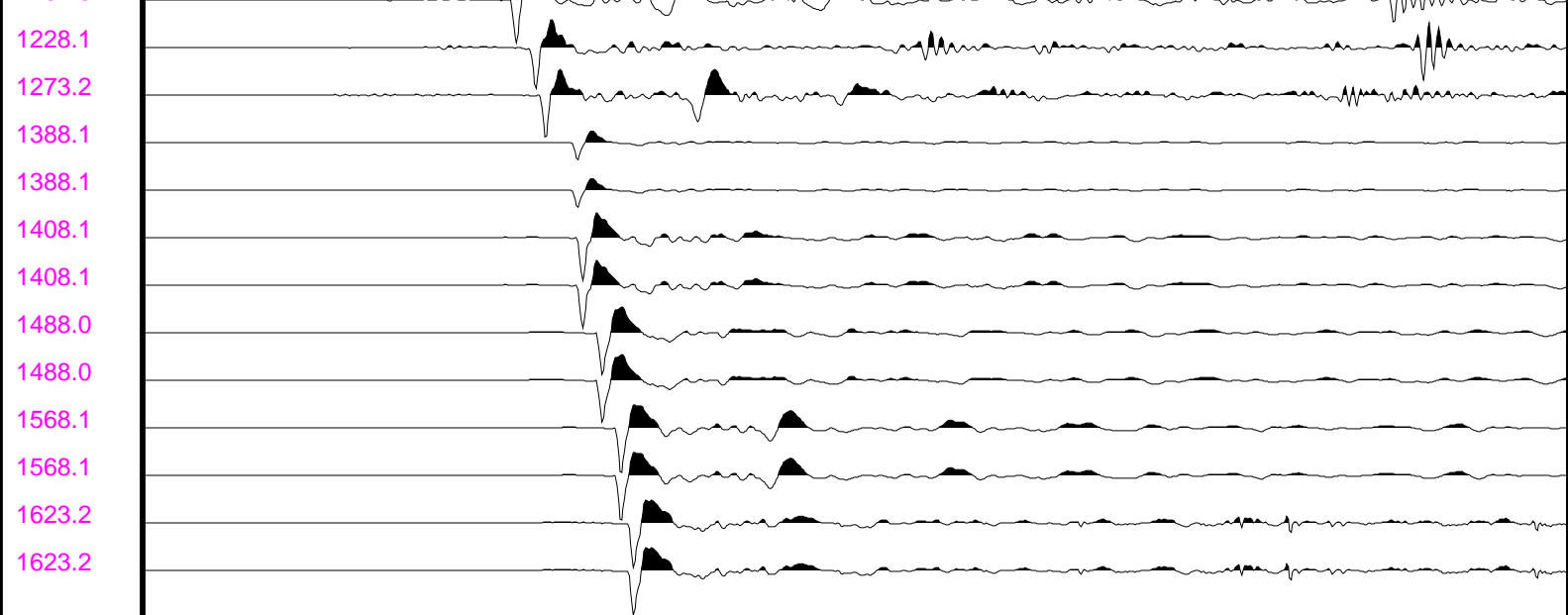
OP System Version: 10C0-306
MCM

CSAT-B1 10C0-306 TCC-BF 10C0-306

VSP PROCESSING

Data Corrected to SRD and TVD
Input data filtered from 5 to 120 Hz
One Way Time Scale Plot
SEG Reverse Polarity
TAR = DATA(I)*I**1.200
Z-AXIS Processed





Depth
(PDE)
(M)

VspHBTA (VspHBTA)

(MS)

1900

Format: vspHBTA

Vertical Scale: 0.25" per 1SAMPLES

Graphics File Created: 28-Jun-2004 17:56

OP System Version: 10C0-306

MCM

CSAT-B1

10C0-306

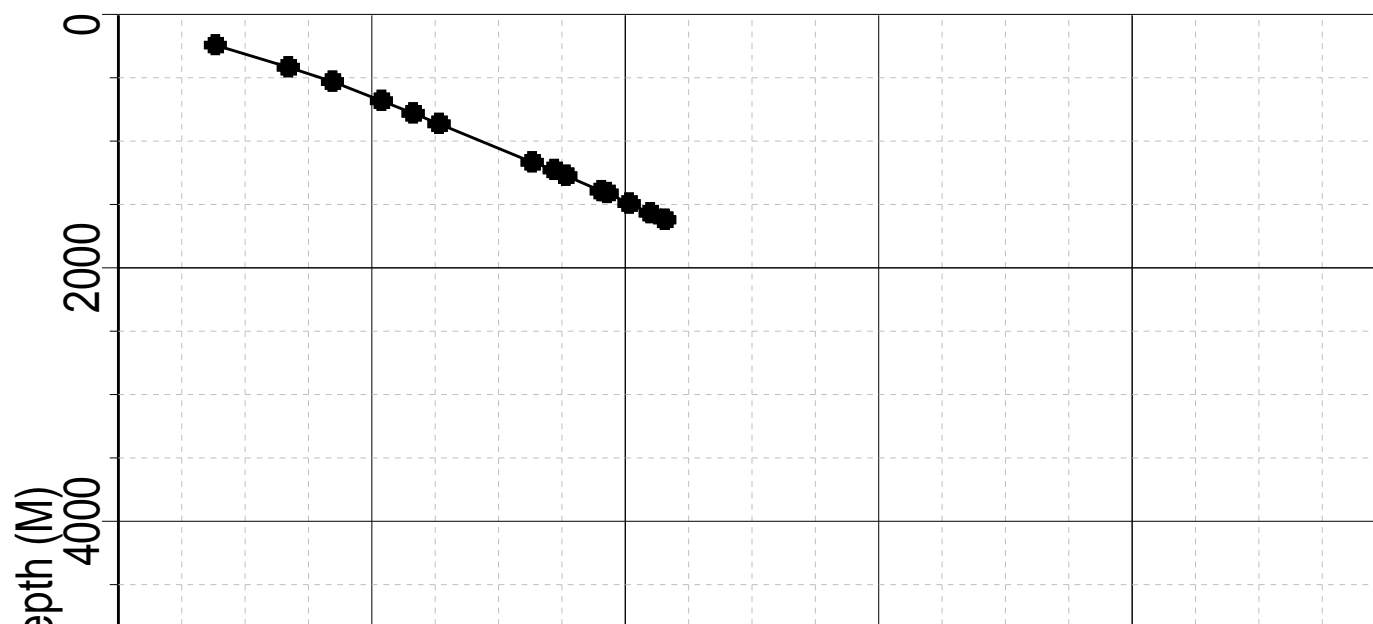
TCC-BF

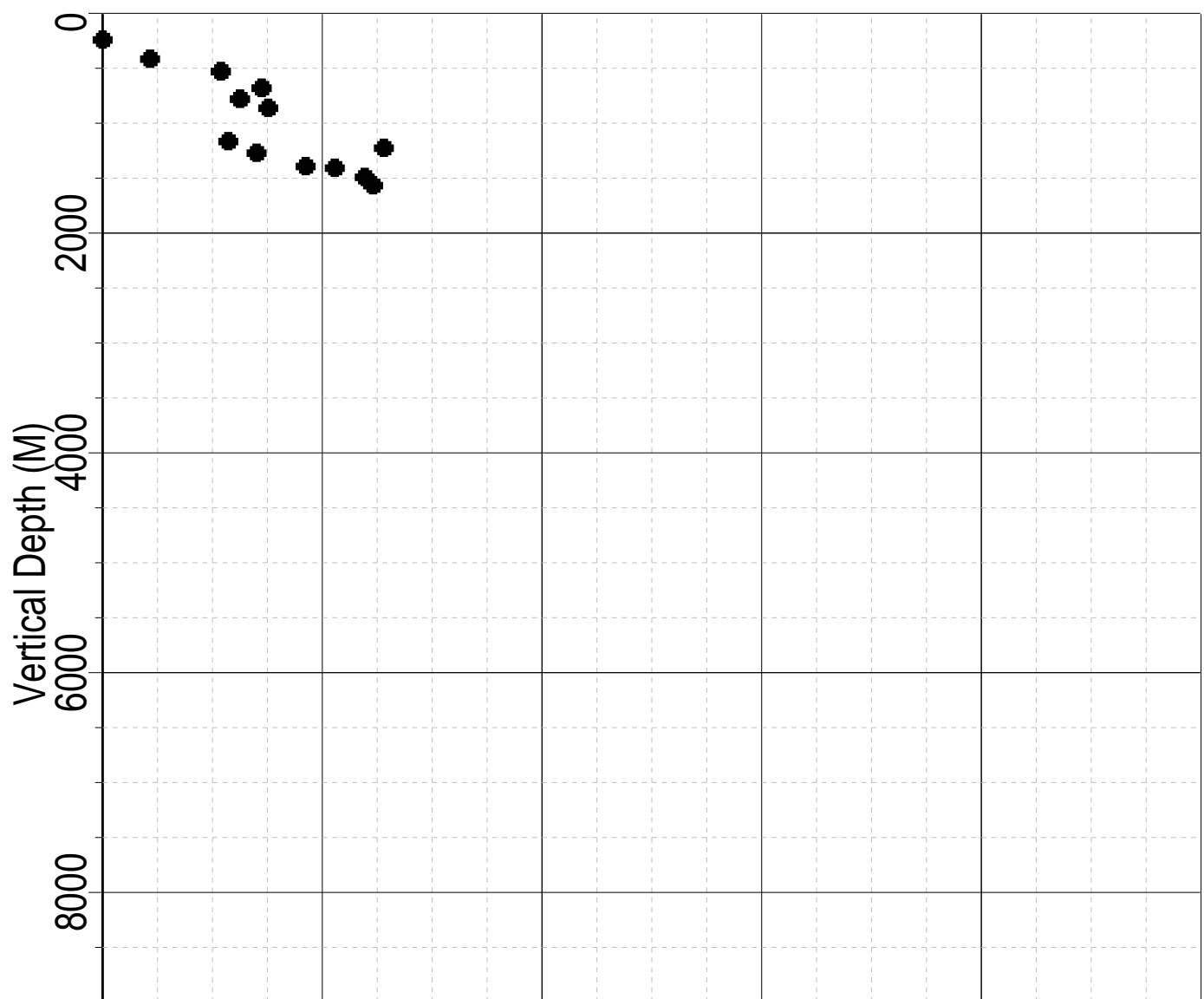
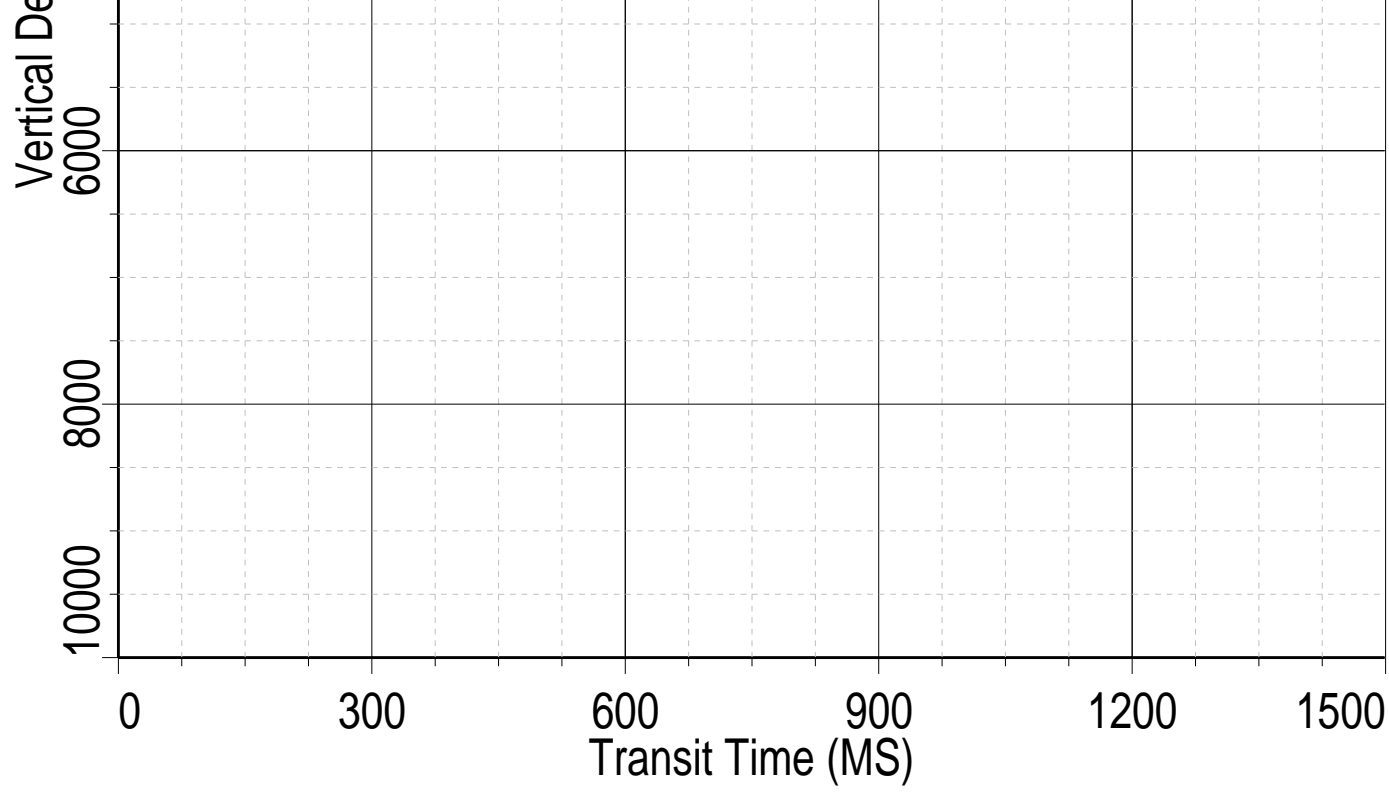
10C0-306

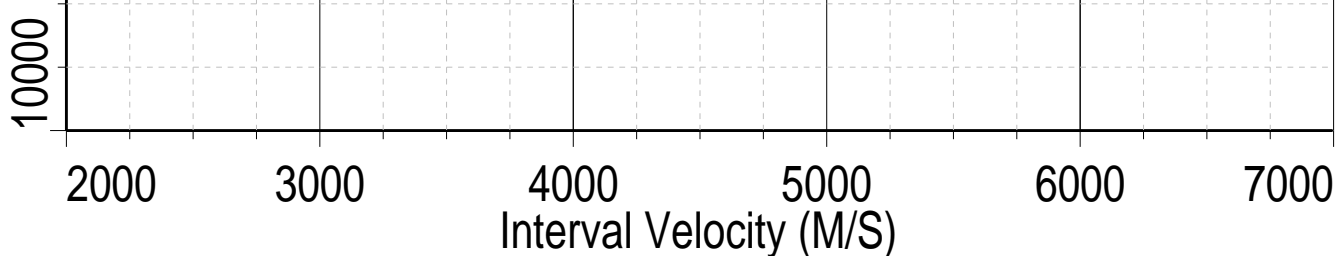
Schlumberger

VSP Crossplots

MAXIS Field Log







Schlumberger

VSP Times

MAXIS Field Log

VSP STACK SUMMARY LISTING

Gun and Hydrophone Coordinates:

Gun Azimuth 270.0 DEG
 Gun Offset 20.0 M
 Gun Depth From Schlumberger Zero 4.9 M
 Hydrophone Depth From Schlumberger Zero 4.9 M
 SRD Depth From Schlumberger Zero 6.9 M

Other VSP constants:

True Vertical Time Correction YES
 Surface Velocity 1524.00 M/S

Stack number	Measured Depth (1) (M)	Measured Trans Time (2) (MS)	True Vert. Depth from (3) (MS)	Corrected Trans Time (4) (M/S)	Interval Velocity
18	247.0	117.17	240.1	115.46	2000.01
17	420.0	203.51	413.1	201.96	2217.37
16	537.0	256.22	530.1	254.73	2540.17
15	685.0	314.44	678.1	312.99	2727.30
14	784.9	351.05	778.0	349.62	2626.33
13	865.9	381.88	859.0	380.46	2757.55
12	1169.7	492.02	1162.8	490.63	2577.43
11	1235.0	517.35	1228.1	515.97	3281.53
10	1280.1	531.09	1273.2	529.71	2705.35
9	1395.0	573.55	1388.1	572.18	2926.05
8	1415.0	580.39	1408.1	579.02	3061.81
7	1494.9	606.48	1488.0	605.11	3195.75
6	1575.0	631.54	1568.1	630.18	3233.44
5	1630.1	648.58	1623.2	647.22	0.00

(1) Measured Depth is Cable Depth Referenced to Schlumberger Zero

(1)Measured Depth is Cable Depth Referenced to Schlumberger Zero.
 (2)TVD is referenced to SRD (5)
 (3)Transit time with respect to SRD(5) corrected for Deviation.
 (4)Interval Velocity corrected for Deviation.
 (5)SRD is Seismic Reference Depth.

VSP STACK SUMMARY LISTING (TWO WAY CORRECTED TIMES)

Gun and Hydrophone Coordinates:

Gun Azimuth 270.0 DEG
 Gun Offset 20.0 M
 Gun Depth From Schlumberger Zero 4.9 M
 Hydrophone Depth From Schlumberger Zero 4.9 M
 SRD Depth From Schlumberger Zero 6.9 M

Other VSP constants:

True Vertical Time Correction YES
 Surface Velocity 1524.00 M/S

Stack number	Measured Depth (1) (M)	Measured Trans Time (2) (MS)	True Vert. Depth from (3) (MS)	Corrected Trans Time (4) (M/S)	Interval Velocity
18	247.0	117.17	240.1	230.93	2000.01
17	420.0	203.51	413.1	403.92	2217.37
16	537.0	256.22	530.1	509.46	2540.17
15	685.0	314.44	678.1	625.99	2727.30
14	784.9	351.05	778.0	699.24	2626.33
13	865.9	381.88	859.0	760.93	2757.55
12	1169.7	492.02	1162.8	981.26	2577.43
11	1235.0	517.35	1228.1	1031.93	3281.53
10	1280.1	531.09	1273.2	1059.42	2705.35
9	1395.0	573.55	1388.1	1144.36	2926.05
8	1415.0	580.39	1408.1	1158.04	3061.81
7	1494.9	606.48	1488.0	1210.23	3195.75
6	1575.0	631.54	1568.1	1260.36	3233.44
5	1630.1	648.58	1623.2	1294.44	0.00

(1)Measured Depth is Cable Depth Referenced to Schlumberger Zero.
 (2)TVD is referenced to SRD (5)
 (3)TW Transit time with respect to SRD(5) corrected for Deviation
 (4)Interval Velocity corrected for Deviation.
 (5)SRD is Seismic Reference Depth.

VSP STACK SUMMARY LISTING

Gun and Hydrophone Coordinates:

Gun Azimuth 270.0 DEG
 Gun Offset 20.0 M
 Gun Depth From Schlumberger Zero 4.9 M
 Hydrophone Depth From Schlumberger Zero 4.9 M
 SRD Depth From Schlumberger Zero 6.9 M

Other VSP constants:

True Vertical Time Correction YES
 Surface Velocity 1524.00 M/S

Stack number	Measured Depth (1) (M)	Measured Trans Time SRD (2) (M)	True Vert. Depth from (3) (MS)	Corrected Trans Time (4) (M/S)	Average Velocity
18	247.0	117.17	240.1	115.46	2073.19
17	420.0	203.51	413.1	201.96	2042.05
16	537.0	256.22	530.1	254.73	2078.18
15	685.0	314.44	678.1	312.99	2163.82
14	784.9	351.05	778.0	349.62	2222.64
13	865.9	381.88	859.0	380.46	2255.25
12	1169.7	492.02	1162.8	490.63	2367.74
11	1235.0	517.35	1228.1	515.97	2378.01
10	1280.1	531.09	1273.2	529.71	2401.39
9	1395.0	573.55	1388.1	572.18	2423.90
8	1415.0	580.39	1408.1	579.02	2429.82
7	1494.9	606.48	1488.0	605.11	2457.01
6	1575.0	631.54	1568.1	630.18	2486.33
5	1630.1	648.58	1623.2	647.22	2505.97

(1) Measured Depth is Cable Depth Referenced to Schlumberger Zero.

(2) TVD is referenced to SRD (5)

(3) Transit time with respect to SRD(5) corrected for Deviation.

(4) Average Velocity from close to source sensor to geophone.

(5) SRD is Seismic Reference Depth.

VSP STACK SUMMARY LISTING (TWO WAY CORRECTED TIMES)

Gun and Hydrophone Coordinates:

Gun Azimuth 270.0 DEG
 Gun Offset 20.0 M
 Gun Depth From Schlumberger Zero 4.9 M
 Hydrophone Depth From Schlumberger Zero 4.9 M
 SRD Depth From Schlumberger Zero 6.9 M

Other VSP constants:

True Vertical Time Correction

YES

Surface Velocity

1524.00 M/S

Stack number	Measured Depth (1) (M)	Measured Trans Time SRD (2) (M)	True Vert. Depth from (3) (MS)	Corrected Trans Time (4) (M/S)	Average Velocity
18	247.0	117.17	240.1	230.93	2073.19
17	420.0	203.51	413.1	403.92	2042.05
16	537.0	256.22	530.1	509.46	2078.18
15	685.0	314.44	678.1	625.99	2163.82
14	784.9	351.05	778.0	699.24	2222.64
13	865.9	381.88	859.0	760.93	2255.25
12	1169.7	492.02	1162.8	981.26	2367.74
11	1235.0	517.35	1228.1	1031.93	2378.01
10	1280.1	531.09	1273.2	1059.42	2401.39
9	1395.0	573.55	1388.1	1144.36	2423.90
8	1415.0	580.39	1408.1	1158.04	2429.82
7	1494.9	606.48	1488.0	1210.23	2457.01
6	1575.0	631.54	1568.1	1260.36	2486.33
5	1630.1	648.58	1623.2	1294.44	2505.97
(1) Measured Depth is Cable Depth Referenced to Schlumberger Zero.					
(2) TVD is referenced to SRD (5)					
(3) TW Transit time with respect to SRD(5) corrected for Deviation					
(4) Average Velocity from close to source sensor to geophone.					
(5) SRD is Seismic Reference Depth.					

Company: **Essential Petroleum Resources Limited**

Schlumberger

Well: **Killarney EPRL 1**

Field: **PEP 152**

Rig: **Hunt Rig #2**

Country: **Australia**

CSI Seismic

Final Print