



HALLIBURTON
Sperry Drilling Services

End of Well Report
for
Bass Strait Oil Company LTD

ZaneGrey-1 / ST1 / ST2

Rig: Ocean Patriot
Field: Exploration
Country: Australia
Job No: AU-FE -0003576081

Date: March 2005

HALLIBURTON

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General Information

Company:	Bass Strait Oil Company Ltd	
Rig:	Ocean Patriot	
Well:	ZaneGrey-1 / ST1 /ST2	
Field:	Exploration	
Country:	Australia	
Elevations:	WD : -72.5m (MSL) / DF: +21.5m	
Sperry-Sun Job Number:	AU-FE-0003576081	
Job start date:	30-Jan-05	
Job end date:	10-Mar-05	
North reference:	Grid	
Declination:	13.209	deg
Dip angle:	-69.062	deg
Total magnetic field:	60166	nT
Date of magnetic data:	29-Jan-05	
Wellhead coordinates N:	38 deg. 34 min 31.640 sec South AGD84	
Wellhead coordinates E:	147 deg. 59 min 16.270 sec East AGD84	
Vertical section direction:	14.910	deg
MWD Engineers:	S.Allan	T.Oborne
	A.Oraekwuotu	D.Luoni
Company Representatives:	C.Wilson	P.Dane
Company Geologist:	G.Geary	A.Thangam
Lease Name:	Vic/P42	
Unit Number:	175	
State:	Victoria	
County:		

Operational Overview

Sperry Drilling Services were contracted by Bass Strait Oil Company Ltd to provide Logging While Drilling (LWD) and directional services for the drilling of exploration well ZaneGrey-1 / ST1 / ST2 from the Ocean Patriot.

ZaneGrey-1

406 mm Hole Section:

This hole section was drilled to 1095.0 mMDRT in one bit run using Sperry's Formation Evaluation tool suite (FEWD) comprising Dual Gamma Ray (DGR) and Electromagnetic Wave Resistivity (EWR-P4) for logging purposes and a Directional Monitor (DM) for directional control.

311mm Hole Section:

This hole section was drilled to 2772.5 mMDRT in four bit runs using Sperry's Formation Evaluation tool suite (FEWD) comprising Dual Gamma Ray (DGR) and Electromagnetic Wave Resistivity (EWR-P4) for logging purposes and a Directional Monitor (DM) for directional control. The first bit was tripped in to 290.0 m where a failed shallow pulse test required the MWD to be pulled to surface for replacement. The second run drilled to 2103.0 mMDRT, at which point the string was dropped on bottom and a trip was made to check the bit. The third run drilled to 2702.0 mMDRT, where low ROP necessitated a bit change. The fourth run drilled to casing point at 2772.5 mMDRT.

The casing could not be run to TD and was set at 2184.0 mMDRT.

ZaneGrey-1 ST1

216 mm Hole Section:

This hole section was kicked off from ZaneGrey-1 at 2190.0 mMDRT after a plug was set, and drilled to 3107.0 mMDRT in one bit run using Sperry's Formation Evaluation tool suite (FEWD). This comprised Dual Gamma Ray (DGR) and Electromagnetic Wave Resistivity (EWR-P4) for logging purposes and a Position Module (PM) for directional control. A trip was made when ROP dropped to zero. Part of the Mud Motor and the bit were lost in the hole. A cement plug was set to kick off ZaneGrey-1 ST2.

ZaneGrey-1 ST2

216 mm Hole Section:

An attempt was made to kick-off ZaneGrey-1 ST2 without success. Another cement plug was set. This hole section was finally kicked off from ZaneGrey-1 ST1 at 3075.0 mMDRT, and drilled to 3675.0 mMDRT in two bit runs using Sperry's Formation Evaluation tool suite (FEWD). This comprised Dual Gamma Ray (DGR) and Electromagnetic Wave Resistivity (EWR-P4) for logging purposes and a Position Module (PM) for directional control.

Summary of MMDruns

[illegible]

TOTALS ==>	4265.00	613.67	613.75	372.54	1	1
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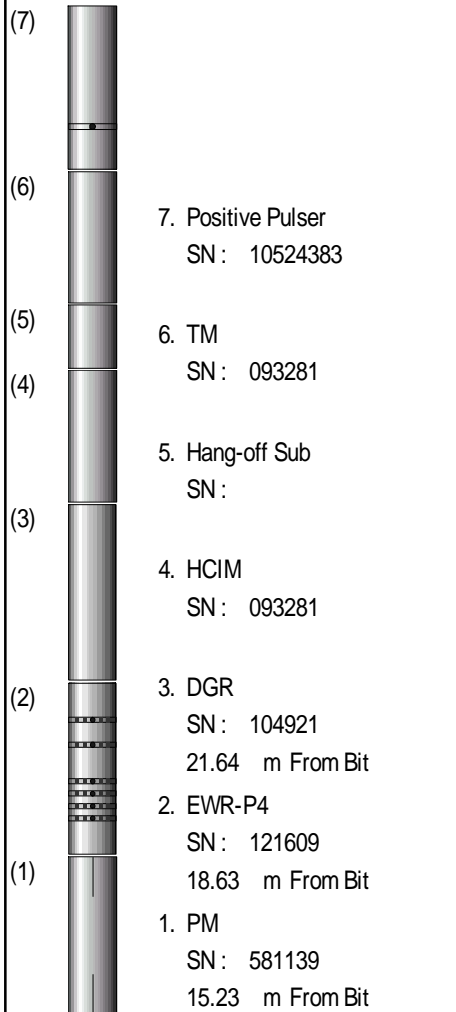
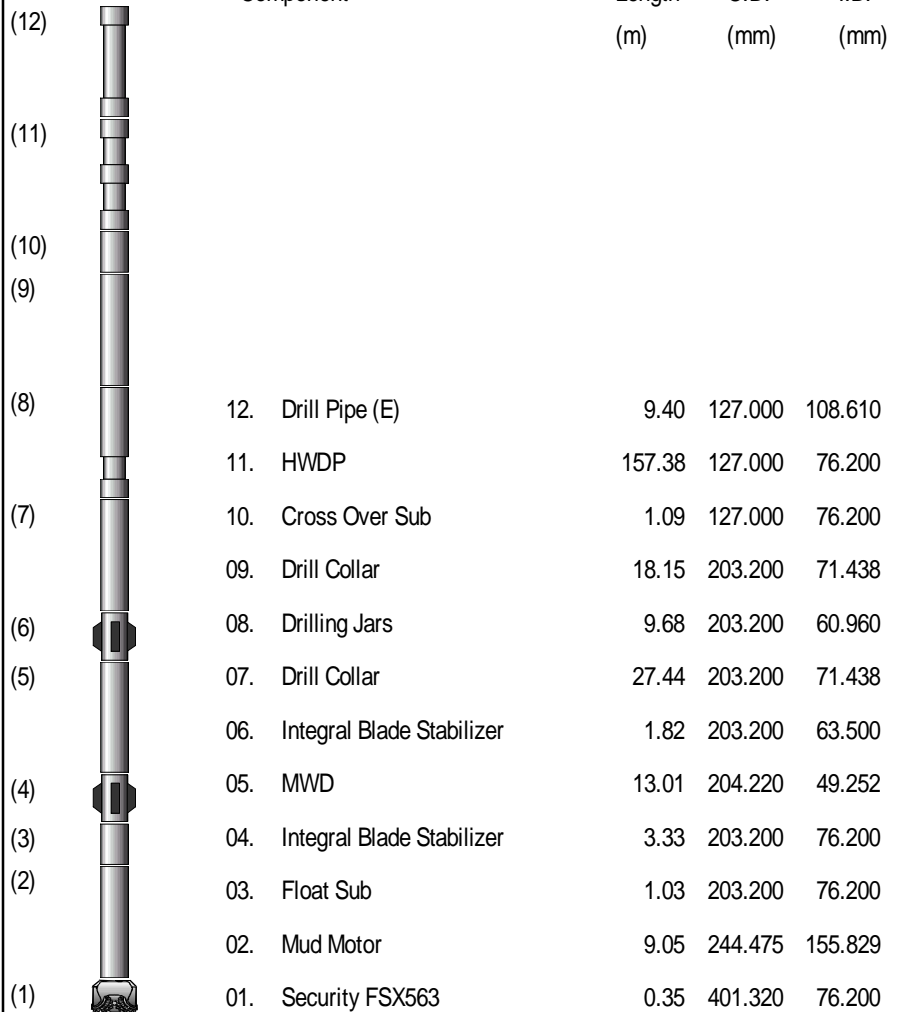
Bitrun Summary

Run Time Data		Drilling Data		Mud Data				
MWD Run :	0200	Start Depth :	129.50 m	Mud Type :	Seawater			
Rig Bit No:	2	End Depth :	1095.00 m	Weight / Visc :	1.05 sg / 120.00 spl			
Hole Size :	406.00 mm	Footage :	965.50 m	Chlorides :	21500 ppm			
Run Start :	30-Jan-05 10:45	Avg. Flow Rate :	1030 gpm	PV / YP :	8.00 cp / 69.00 pa			
Run End :	01-Feb-05 07:05	Avg. RPM :	60 rpm	Solids/Sand :	1 % / 0 %			
BRT Hrs :	44.34	Avg. WOB :	18.00 klb	%Oil / O:W:	N/A % / 0/99			
Circ. Hrs :	35.15	Avg. ROP :	53.60 m/hr	pH/Fluid Loss:	9.50 pH / 14.00 cptm			
Oper. Hrs :	44.34	Avg. SPP :	2600 psig	Max. Temp. :	33.00 degC			
MWD Schematics		BHA Schematics						
<div><div>(7)</div><div>(6)</div><div>(5)</div><div>(4)</div><div>(3)</div><div>(2)</div><div>(1)</div></div> <div><div>7. Positive Pulser SN : 10524383</div><div>6. TM SN : 074608</div><div>5. Hang-off Sub SN :</div><div>4. HCIM SN : 074608</div><div>3. DGR SN : 10505500 19.78 m From Bit</div><div>2. EWR-P4 SN : 69384 16.76 m From Bit</div><div>1. PM SN : 10581139 13.34 m From Bit</div></div>		<div><div>(12)</div><div>(11)</div><div>(10)</div><div>(9)</div><div>(8)</div><div>(7)</div><div>(6)</div><div>(5)</div><div>(4)</div><div>(3)</div><div>(2)</div><div>(1)</div></div> <div><div>Component</div><div>12. Drill Pipe (E)</div><div>11. HWDP</div><div>10. Cross Over Sub</div><div>09. Drill Collar</div><div>08. Drilling Jars</div><div>07. Drill Collar</div><div>06. Integral Blade Stabilizer</div><div>05. MWD</div><div>04. Integral Blade Stabilizer</div><div>03. Float Sub</div><div>02. Mud Motor</div><div>01. Smith GXIVC</div></div> <div><div>Length</div><div>9.60</div><div>166.78</div><div>1.09</div><div>18.15</div><div>9.68</div><div>27.44</div><div>1.82</div><div>12.98</div><div>3.33</div><div>1.03</div><div>9.05</div><div>0.35</div></div> <div><div>O.D.</div><div>127.000</div><div>127.000</div><div>127.000</div><div>203.200</div><div>203.200</div><div>203.200</div><div>203.200</div><div>204.220</div><div>203.200</div><div>203.200</div><div>244.475</div><div>312.000</div></div> <div><div>I.D.</div><div>108.610</div><div>76.200</div><div>76.200</div><div>71.438</div><div>60.960</div><div>71.438</div><div>63.500</div><div>49.252</div><div>76.200</div><div>76.200</div><div>155.829</div><div>76.200</div></div>						
Comments				MWD Performance				
Drilled from 129.5 mMDRT to 1095.0 mMDRT. All recorded data was recovered at surface.				Tool OD / Type :	203.00 mm /	DIR-FE		
				MWD Real-time%:	96.50 %			
				MWD Recorded%:	95.00 %			
				Min. Inc. :	0.31 deg /	322.80 m		
				Max. Inc. :	34.99 deg /	1080.74 m		
				Final Az. :	14.71 deg			
				Max Op. Press. :	1502 psig			



Bitrun Summary

Run Time Data		Drilling Data		Mud Data			
MWD Run :	0300	Start Depth :	1095.00 m	Mud Type :	Sea water		
Rig Bit No:	3	End Depth :	1095.00 m	Weight / Visc :	1.04 sg /	47.00 spl	
Hole Size :	311.00 mm	Footage :	0.00 m	Chlorides :	25000 ppm		
Run Start :	04-Feb-05 03:32	Avg. Flow Rate :	870 gpm	PV / YP :	8.00 cp /	10.00 pa	
Run End :	04-Feb-05 10:54	Avg. RPM :	0.00 rpm	Solids/Sand :	0.5 % /	0 %	
BRT Hrs :	7.36	Avg. WOB :	0.00 klb	%Oil / O:W:	N/A % /	N/A:100	
Circ. Hrs :	0.96	Avg. ROP :	0.00 m/hr	pH/Fluid Loss:	8.80 pH /	0.00 cptm	
Oper. Hrs :	7.36	Avg. SPP :	1300.00 psig	Max. Temp. :	26.00 degC		
MWD Schematics		BHA Schematics					
<div><div><div>(7)</div><div>(6)</div><div>(5)</div><div>(4)</div><div>(3)</div><div>(2)</div><div>(1)</div></div><div><div>7. Positive Pulser SN : 8201</div><div>6. TM SN : 074608</div><div>5. Hang-off Sub SN :</div><div>4. HCIM SN : 074608</div><div>3. DGR SN : 10505500 21.66 m From Bit</div><div>2. EWR-P4 SN : 69384 18.64 m From Bit</div><div>1. PM SN : 10581139 15.23 m From Bit</div></div></div>		<div><div><div>(12)</div><div>(11)</div><div>(10)</div><div>(9)</div><div>(8)</div><div>(7)</div><div>(6)</div><div>(5)</div><div>(4)</div><div>(3)</div><div>(2)</div><div>(1)</div></div><div><div>Component</div><div>Length</div><div>O.D.</div><div>I.D.</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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Bitrun Summary

Run Time Data		Drilling Data		Mud Data																																																							
MWD Run :	0400	Start Depth :	1095.00 m	Mud Type :	KCL Idcap																																																						
Rig Bit No:	4	End Depth :	2103.00 m	Weight / Visc :	1.10 sg /	57.00 spl																																																					
Hole Size :	311.00 mm	Footage :	1008.00 m	Chlorides :	30000 ppm																																																						
Run Start :	04-Feb-05 12:57	Avg. Flow Rate :	935 gpm	PV / YP :	15.00 cp /	32.00 pa																																																					
Run End :	07-Feb-05 04:08	Avg. RPM :	73 rpm	Solids/Sand :	9 % /	1 %																																																					
BRT Hrs :	63.19	Avg. WOB :	9.00 klb	%Oil / O:W:	N/A % /	N/A:91																																																					
Circ. Hrs :	43.00	Avg. ROP :	48.70 m/hr	pH/Fluid Loss:	8.50 pH /	4.20 cptm																																																					
Oper. Hrs :	63.19	Avg. SPP :	3100 psig	Max. Temp. :	65.00 degC																																																						
MWD Schematics		BHA Schematics																																																									
																																																											
		<table><thead><tr><th>Component</th><th>Length (m)</th><th>O.D. (mm)</th><th>I.D. (mm)</th></tr></thead><tbody><tr><td>01. Security FSX563</td><td>0.35</td><td>401.320</td><td>76.200</td></tr><tr><td>02. Mud Motor</td><td>9.05</td><td>244.475</td><td>155.829</td></tr><tr><td>03. Float Sub</td><td>1.03</td><td>203.200</td><td>76.200</td></tr><tr><td>04. Integral Blade Stabilizer</td><td>3.33</td><td>203.200</td><td>76.200</td></tr><tr><td>05. MWD</td><td>13.01</td><td>204.220</td><td>49.252</td></tr><tr><td>06. Integral Blade Stabilizer</td><td>1.82</td><td>203.200</td><td>63.500</td></tr><tr><td>07. Drill Collar</td><td>27.44</td><td>203.200</td><td>71.438</td></tr><tr><td>08. Drilling Jars</td><td>9.68</td><td>203.200</td><td>60.960</td></tr><tr><td>09. Drill Collar</td><td>18.15</td><td>203.200</td><td>71.438</td></tr><tr><td>10. Cross Over Sub</td><td>1.09</td><td>127.000</td><td>76.200</td></tr><tr><td>11. HWDP</td><td>157.38</td><td>127.000</td><td>76.200</td></tr><tr><td>12. Drill Pipe (E)</td><td>9.40</td><td>127.000</td><td>108.610</td></tr></tbody></table>						Component	Length (m)	O.D. (mm)	I.D. (mm)	01. Security FSX563	0.35	401.320	76.200	02. Mud Motor	9.05	244.475	155.829	03. Float Sub	1.03	203.200	76.200	04. Integral Blade Stabilizer	3.33	203.200	76.200	05. MWD	13.01	204.220	49.252	06. Integral Blade Stabilizer	1.82	203.200	63.500	07. Drill Collar	27.44	203.200	71.438	08. Drilling Jars	9.68	203.200	60.960	09. Drill Collar	18.15	203.200	71.438	10. Cross Over Sub	1.09	127.000	76.200	11. HWDP	157.38	127.000	76.200	12. Drill Pipe (E)	9.40	127.000	108.610
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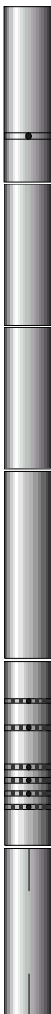

Bitrun Summary

Run Time Data		Drilling Data		Mud Data			
MWD Run :	0500	Start Depth :	2103.00 m	Mud Type :	KCL Idcap		
Rig Bit No:	5	End Depth :	2702.00 m	Weight / Visc :	1.16 sg /	65.00 spl	
Hole Size :	311.00 mm	Footage :	599.00 m	Chlorides :	37000 ppm		
Run Start :	07-Feb-05 06:05	Avg. Flow Rate :	860 gpm	PV / YP :	23.00 cp /	42.00 pa	
Run End :	09-Feb-05 10:59	Avg. RPM :	70 rpm	Solids/Sand :	10.5 % /	0.75 %	
BRT Hrs :	52.90	Avg. WOB :	9.80 klb	%Oil / O:W:	N/A % /	N/A:90	
Circ. Hrs :	35.78	Avg. ROP :	30.70 m/hr	pH/Fluid Loss:	9.00 pH /	4.20 cptm	
Oper. Hrs :	52.90	Avg. SPP :	3300 psig	Max. Temp. :	77.00 degC		
MWD Schematics		BHA Schematics					
		Component		Length (m)	O.D. (mm)	I.D. (mm)	
(7)		(12)					
(6)	7. Positive Pulser SN : 8298	(11)					
(5)	6. TM SN : 093281	(10)					
(4)	5. Hang-off Sub SN :	(9)					
(3)	4. HCIM SN : 093281	(8)	12. Drill Pipe (E)	9.40	127.000	108.610	
(2)	3. DGR SN : 104921 21.64 m From Bit	(7)	11. HWDP	157.38	127.000	76.200	
(1)	2. EWR-P4 SN : 121609 18.63 m From Bit	(6)	10. Cross Over Sub	1.09	127.000	76.200	
	1. PM SN : 581139 15.23 m From Bit	(5)	09. Drill Collar	18.15	203.200	71.438	
		(4)	08. Drilling Jars	9.68	203.200	60.960	
		(3)	07. Drill Collar	27.44	203.200	71.438	
		(2)	06. Integral Blade Stabilizer	1.82	203.200	63.500	
		(1)	05. MWD	13.05	204.220	49.252	
			04. Integral Blade Stabilizer	3.33	203.200	76.200	
			03. Float Sub	1.03	203.200	76.200	
			02. Mud Motor	9.05	244.475	155.829	
			01. Security FSX563	0.35	401.320	76.200	
Comments				MWD Performance			
Drilled 311mm hole section to 2702.0 mDMRT POOH to change bit and BHA due to low ROP's.				Tool OD / Type :	203.00 mm /	MPT	
				MWD Real-time%:	95.00 %		
				MWD Recorded%:	100.00 %		
				Min. Inc. :	32.39 deg /	2183.17 m	
				Max. Inc. :	35.92 deg /	2643.79 m	
				Final Az. :	18.92 deg		
				Max Op. Press. :	3730 psig		

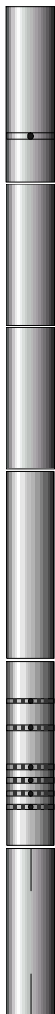

Bitrun Summary

Run Time Data		Drilling Data		Mud Data			
MWD Run :	0600	Start Depth :	2702.00 m	Mud Type :	KCL Idcap		
Rig Bit No:	6	End Depth :	2772.50 m	Weight / Visc :	1.16 sg /	66.60 spl	
Hole Size :	311.00 mm	Footage :	70.50 m	Chlorides :	29250 ppm		
Run Start :	09-Feb-05 11:46	Avg. Flow Rate :	888 gpm	PV / YP :	21.00 cp /	17.20 pa	
Run End :	12-Feb-05 02:54	Avg. RPM :	122 rpm	Solids/Sand :	9 % /	0.65 %	
BRT Hrs :	63.12	Avg. WOB :	28.00 klb	%Oil / O:W:	N/A % /	N/A:91	
Circ. Hrs :	39.25	Avg. ROP :	6.40 m/hr	pH/Fluid Loss:	9.00 pH /	4.40 cptm	
Oper. Hrs :	63.18	Avg. SPP :	3546 psig	Max. Temp. :	76.00 degC		
MWD Schematics		BHA Schematics					
<div><div><div>(7)</div><div></div></div><div><div></div><div></div></div><div><div>(6)</div><div>7. Positive Pulser SN : 8298</div></div><div><div></div><div></div></div><div><div>(5)</div><div>6. TM SN : 093281</div></div><div><div></div><div></div></div><div><div>(4)</div><div>5. Hang-off Sub SN :</div></div><div><div></div><div></div></div><div><div>(3)</div><div>4. HCIM SN : 093281</div></div><div><div></div><div></div></div><div><div>(2)</div><div>3. DGR SN : 104921 16.57 m From Bit</div></div><div><div></div><div></div></div><div><div>(1)</div><div>2. EWR-P4 SN : 121609 13.56 m From Bit</div></div><div><div></div><div></div></div><div><div></div><div>1. PM SN : 581139 10.15 m From Bit</div></div></div>		<div><div><div>(12)</div><div></div></div><div><div></div><div></div></div><div><div>(11)</div><div></div></div><div><div></div><div></div></div><div><div>(10)</div><div></div></div><div><div>(9)</div><div></div></div><div><div>(8)</div><div>12. Drill Pipe (E) 9.40 127.000 108.610</div></div><div><div></div><div></div></div><div><div>(7)</div><div>11. HWDP 157.38 127.000 76.200</div></div><div><div></div><div></div></div><div><div>(6)</div><div>10. Cross Over Sub 1.09 127.000 76.200</div></div><div><div></div><div></div></div><div><div>(5)</div><div>09. Drill Collar 18.15 203.200 71.438</div></div><div><div></div><div></div></div><div><div>(4)</div><div>08. Drilling Jars 9.68 203.200 60.960</div></div><div><div></div><div></div></div><div><div>(3)</div><div>07. Drill Collar 27.44 203.200 71.438</div></div><div><div></div><div></div></div><div><div>(2)</div><div>06. Integral Blade Stabilizer 1.82 203.200 63.500</div></div><div><div></div><div></div></div><div><div>(1)</div><div>05. MWD 13.05 204.220 49.252</div></div><div><div></div><div></div></div><div><div></div><div>04. Integral Blade Stabilizer 1.95 203.200 76.200</div></div><div><div></div><div></div></div><div><div></div><div>03. Pony collar 4.59 203.000 76.200</div></div><div><div></div><div></div></div><div><div></div><div>02. Float Sub 1.78 203.200 76.200</div></div><div><div></div><div></div></div><div><div></div><div>01. Security XL12 0.34 401.320 76.200</div></div></div>					
Comments				MWD Performance			
Drilled to casing point at 2772.5 mMDRT.				Tool OD / Type :	203.00 mm /	MPT	
				MWD Real-time%:	96.00 %		
				MWD Recorded%:	100.00 %		
				Min. Inc. :	34.94 deg /	2758.61 m	
				Max. Inc. :	35.56 deg /	2730.26 m	
				Final Az. :	18.82 deg		
				Max Op. Press. :	3993 psig		

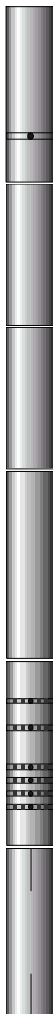

Bitrun Summary

Run Time Data		Drilling Data		Mud Data			
MWD Run :	0700	Start Depth :	2190.00 m	Mud Type :	KCL/Polymer		
Rig Bit No:	7	End Depth :	3107.00 m	Weight / Visc :	1.13 sg /	68.00	spl
Hole Size :	216.00 mm	Footage :	917.00 m	Chlorides :	32000 ppm		
Run Start :	21-Feb-05 16:02	Avg. Flow Rate :	615 gpm	PV / YP :	21.00 cp /	15.30	pa
Run End :	26-Feb-05 04:09	Avg. RPM :	60 rpm	Solids/Sand :	7.2 % /	0.25	%
BRT Hrs :	108.12	Avg. WOB :	24.00 klb	%Oil / O:W:	N/A % /	N/A:93	
Circ. Hrs :	89.69	Avg. ROP :	16.70 m/hr	pH/Fluid Loss:	9.50 pH /	4.80	cptm
Oper. Hrs :	108.12	Avg. SPP :	2850 psig	Max. Temp. :	82.00 degC		
MWD Schematics		BHA Schematics					
				Component	Length (m)	O.D. (mm)	I.D. (mm)
(6)		(11)					
(5)		(10)					
(4)	6. Positive Pulser SN : 8270	(9)					
(3)	5. TM SN : 091232	(8)					
(2)	4. HCIM SN : 091232	(7)	11. Drill Pipe (E)	853.44	127.000	108.610	
(1)	3. DGR SN : 043350 19.60 m From Bit	(6)	10. HWDP	138.80	127.000	76.200	
	2. EWR-P4 SN : 10505541 16.62 m From Bit	(5)	09. Drill Collar	18.59	165.000	70.000	
	1. PM SN : 69655 13.08 m From Bit	(4)	08. Drilling Jars	9.87	163.000	76.000	
		(3)	07. Drill Collar	55.81	165.000	70.000	
		(2)	06. Integral Blade Stabilizer	1.56	165.000	70.000	
		(1)	05. MWD	12.92	171.000	73.152	
			04. Float Sub	0.64	163.576	76.200	
			03. Adjustable Gauge Stabilizer	3.23	171.000	70.000	
			02. 7" SperryDrill Lobe	7.67	171.450	66.040	
			01. Hycalog RSX162DGW	0.22	216.000	63.500	
Comments				MWD Performance			
Kicked off @ 2190.0m. Drilled and steered 216mm hole to 3107.0 mMDRT. POOH to change bit due to low ROP.				Tool OD / Type :	171.00 mm /	D/GWD	
				MWD Real-time%:	96.25 %		
				MWD Recorded%:	100.00 %		
				Min. Inc. :	29.94 deg /	2326.97 m	
				Max. Inc. :	37.52 deg /	2700.11 m	
				Final Az. :	12.66 deg		
				Max Op. Press. :	4340 psig		

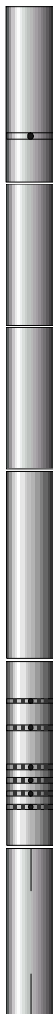

Bitrun Summary

Run Time Data		Drilling Data		Mud Data			
MWD Run :	0800	Start Depth :	3107.00 m	Mud Type :	KCL/Polymer		
Rig Bit No:	8	End Depth :	3107.00 m	Weight / Visc :	1.15 sg /	64.00 spl	
Hole Size :	216.00 mm	Footage :	0.00 m	Chlorides :	23790 ppm		
Run Start :	27-Feb-05 01:03	Avg. Flow Rate :	530 gpm	PV / YP :	17.00 cp /	15.80 pa	
Run End :	28-Feb-05 00:40	Avg. RPM :	40 rpm	Solids/Sand :	8.2 % /	0.25 %	
BRT Hrs :	23.62	Avg. WOB :	8.00 klb	%Oil / O:W:	N/A % /	N/A:92	
Circ. Hrs :	10.00	Avg. ROP :	18.80 m/hr	pH/Fluid Loss:	9.00 pH /	4.70 cptm	
Oper. Hrs :	23.62	Avg. SPP :	2380 psig	Max. Temp. :	96.00 degC		
MWD Schematics		BHA Schematics					
							
(6)		(11)	Component	Length (m)	O.D. (mm)	I.D. (mm)	
(5)		(10)					
(4)	6. Positive Pulser SN : 8544	(9)					
(3)	5. TM SN : 091232	(8)					
(2)	4. HCIM SN : 091232	(7)	11. Drill Pipe (E)	853.44	127.000	108.610	
(1)	3. DGR SN : 043350 19.64 m From Bit	(6)	10. HWDP	138.80	127.000	76.200	
	2. EWR-P4 SN : 10505541 16.66 m From Bit	(5)	09. Drill Collar	18.59	165.000	70.000	
	1. PM SN : 69655 13.12 m From Bit	(4)	08. Drilling Jars	9.87	163.000	76.000	
		(3)	07. Drill Collar	28.06	165.000	70.000	
		(2)	06. Integral Blade Stabilizer	1.56	165.000	70.000	
		(1)	05. MWD	12.92	171.000	73.152	
			04. Float Sub	0.64	163.576	76.200	
			03. Adjustable Gauge Stabilizer	3.23	171.000	70.000	
			02. 6-3/4" SperryDrill Lobe	7.67	171.450	66.040	
			01. Hycalog TD43AKPRDH	0.26	216.000	63.500	
Comments				MWD Performance			
Attempted to kick-off ZaneGrey-1 ST2. Drilled plug, tagged fish. POOH to set another kick-off plug.				Tool OD / Type :	171.00 mm /	MPT	
				MWD Real-time%:	98.00 %		
				MWD Recorded%:	100.00 %		
				Min. Inc. :	0.00 deg /	0.00 m	
				Max. Inc. :	0.00 deg /	0.00 m	
				Final Az. :	0.00 deg		
				Max Op. Press. :	4355 psig		

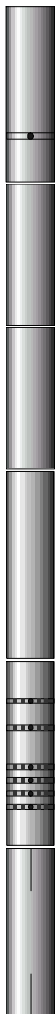

Bitrun Summary

Run Time Data		Drilling Data		Mud Data			
MWD Run :	0900	Start Depth :	2970.00 m	Mud Type :	KCL/Polymer		
Rig Bit No:	9	End Depth :	3031.00 m	Weight / Visc :	1.13 sg /	43.00 spl	
Hole Size :	216.00 mm	Footage :	61.00 m	Chlorides :	37500 ppm		
Run Start :	28-Feb-05 17:45	Avg. Flow Rate :	525 gpm	PV / YP :	17.00 cp /	14.00 pa	
Run End :	03-Mar-05 02:40	Avg. RPM :	0.00 rpm	Solids/Sand :	7.0 % /	0.25 %	
BRT Hrs :	56.93	Avg. WOB :	30.00 klb	%Oil / O:W:	N/A % /	N/A:93	
Circ. Hrs :	40.85	Avg. ROP :	14.20 m/hr	pH/Fluid Loss:	11.00 pH /	7.00 cptm	
Oper. Hrs :	56.93	Avg. SPP :	2350 psig	Max. Temp. :	91.00 degC		
MWD Schematics		BHA Schematics					
							
(6)		(11)	Component	Length (m)	O.D. (mm)	I.D. (mm)	
(5)		(10)					
(4)	6. Positive Pulser SN : 8544	(9)					
(3)	5. TM SN : 091232	(8)					
(2)	4. HCIM SN : 091232	(7)	11. Drill Pipe (E)	853.44	127.000	108.610	
(1)	3. DGR SN : 043350 19.60 m From Bit	(6)	10. HWDP	138.80	127.000	76.200	
	2. EWR-P4 SN : 10505541 16.62 m From Bit	(5)	09. Drill Collar	18.59	165.000	70.000	
	1. PM SN : 69655 13.08 m From Bit	(4)	08. Drilling Jars	9.87	163.000	76.000	
		(3)	07. Drill Collar	28.06	165.000	70.000	
		(2)	06. Integral Blade Stabilizer	1.56	165.000	70.000	
		(1)	05. MWD	12.92	171.000	73.152	
			04. Float Sub	0.64	163.576	76.200	
			03. Adjustable Gauge Stabilizer	3.23	171.000	70.000	
			02. 6-3/4" SperryDrill Motor	7.67	171.450	66.040	
			01. Hycalog RX163DGW	0.22	216.000	63.500	
Comments				MWD Performance			
Tagged kick-off plug. Attempted to kick-off ZaneGrey-1 ST2. No success. Steered through cement from 2970.0 mMDRT to 3031.0 mMDRT. POOH to change bit and Motor and lay out AGS stabilizer.				Tool OD / Type :	171.00 mm /	MPT	
				MWD Real-time%:	95.00 %		
				MWD Recorded%:	100.00 %		
				Min. Inc. :	30.40 deg /	2987.54 m	
				Max. Inc. :	31.83 deg /	3018.22 m	
				Final Az. :	13.27 deg		
				Max Op. Press. :	4257 psig		

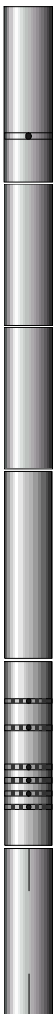

Bitrun Summary

Run Time Data		Drilling Data		Mud Data			
MWD Run :	1000	Start Depth :	3031.00 m	Mud Type :	KCL/Polymer		
Rig Bit No:	10	End Depth :	3070.00 m	Weight / Visc :	1.13 sg /	43.00 spl	
Hole Size :	216.00 mm	Footage :	39.00 m	Chlorides :	29250 ppm		
Run Start :	03-Mar-05 03:19	Avg. Flow Rate :	580 gpm	PV / YP :	17.00 cp /	14.00 pa	
Run End :	04-Mar-05 16:12	Avg. RPM :	0.00 rpm	Solids/Sand :	7 % /	0.25 %	
BRT Hrs :	36.88	Avg. WOB :	5.50 klb	%Oil / O:W:	N/A % /	N/A:93	
Circ. Hrs :	25.41	Avg. ROP :	0.00 m/hr	pH/Fluid Loss:	11.00 pH /	7.00 cptm	
Oper. Hrs :	36.88	Avg. SPP :	2696 psig	Max. Temp. :	94.00 degC		
MWD Schematics		BHA Schematics					
							
(6)		(11)	Component	Length (m)	O.D. (mm)	I.D. (mm)	
(5)		(10)					
(4)	6. Positive Pulser SN : 8544	(9)					
(3)	5. TM SN : 091232	(8)					
(2)	4. HCIM SN : 091232	(7)	11. Drill Pipe (E)	853.44	127.000	108.610	
(1)	3. DGR SN : 043350 18.14 m From Bit	(6)	10. HWDP	138.80	127.000	76.200	
	2. EWR-P4 SN : 10505541 15.16 m From Bit	(5)	09. Drill Collar	18.59	165.000	70.000	
	1. PM SN : 69655 11.62 m From Bit	(4)	08. Drilling Jars	9.87	163.000	76.000	
		(3)	07. Drill Collar	28.06	165.000	70.000	
		(2)	06. Integral Blade Stabilizer	1.56	165.000	70.000	
		(1)	05. MWD	12.92	171.000	73.152	
			04. Float Sub	0.64	163.576	76.200	
			03. Integral Blade Stabilizer	1.75	171.450	114.300	
			02. 6-3/4" SperryDrill Motor	7.67	171.450	66.040	
			01. Security DBS EBXSC1S	0.24	216.000	63.500	
Comments				MWD Performance			
Tagged cement plug. Attempted to kick-off ZaneGrey-1 ST2. Drilled 61m of cement. No success. POOH to change bit.				Tool OD / Type :	171.00 mm /	MPT	
				MWD Real-time%:	98.00 %		
				MWD Recorded%:	100.00 %		
				Min. Inc. :	0.00 deg /	0.00 m	
				Max. Inc. :	0.00 deg /	0.00 m	
				Final Az. :	0.00 deg		
				Max Op. Press. :	4311 psig		

Bitrun Summary

Run Time Data		Drilling Data		Mud Data					
MWD Run :	1100	Start Depth :	3070.00 m	Mud Type :	KCl/Polymer				
Rig Bit No:	11	End Depth :	3092.00 m	Weight / Visc :	1.13 sg / 38.00 spl				
Hole Size :	216.00 mm	Footage :	22.00 m	Chlorides :	34000 ppm				
Run Start :	04-Mar-05 16:40	Avg. Flow Rate :	600 gpm	PV / YP :	9.00 cp / 7.00 pa				
Run End :	05-Mar-05 19:14	Avg. RPM :	0.00 rpm	Solids/Sand :	7.3 % / 0.25 %				
BRT Hrs :	26.57	Avg. WOB :	6.00 klb	%Oil / O:W:	N/A % / N/A:93				
Circ. Hrs :	12.81	Avg. ROP :	3.80 m/hr	pH/Fluid Loss:	12.00 pH / 7.40 cptm				
Oper. Hrs :	26.57	Avg. SPP :	2930 psig	Max. Temp. :	96.00 degC				
MWD Schematics		BHA Schematics							
						Component	Length	O.D.	I.D.
(6)		(11)				(m)	(mm)	(mm)	
(5)		(10)							
(4)	6. Positive Pulser SN : 8544	(9)							
(3)	5. TM SN : 091232	(8)							
(2)	4. HCIM SN : 091232	(7)	11. Drill Pipe (E)	853.44	127.000	108.610			
(1)	3. DGR SN : 043350 18.03 m From Bit	(6)	10. HWDP	138.80	127.000	76.200			
	2. EWR-P4 SN : 10505541 15.05 m From Bit	(5)	09. Drill Collar	18.59	165.000	70.000			
	1. PM SN : 69655 11.51 m From Bit	(4)	08. Drilling Jars	9.87	163.000	76.000			
		(3)	07. Drill Collar	28.06	165.000	70.000			
		(2)	06. Integral Blade Stabilizer	1.56	165.000	70.000			
		(1)	05. MWD	12.92	171.000	73.152			
			04. Float Sub	0.64	163.576	76.200			
			03. Integral Blade Stabilizer	1.75	171.450	114.300			
			02. 6-3/4" SperryDrill Motor	7.67	171.450	66.040			
			01. Hycalog DS43STG	0.13	216.000	63.500			
Comments				MWD Performance					
Kicked-off ZaneGrey-1 ST2 @ 3075.0 mMDRT, and drilled to 3092.0 mMDRT. POOH to change bit, and adjust bend on Motor.				Tool OD / Type :	171.00 mm /	MPT			
				MWD Real-time%:	98.00 %				
				MWD Recorded%:	100.00 %				
				Min. Inc. :	30.02 deg /	3078.99 m			
				Max. Inc. :	30.37 deg /	3071.00 m			
				Final Az. :	15.12 deg				
				Max Op. Press. :	4320 psig				

Bitrun Summary

Run Time Data		Drilling Data		Mud Data			
MWD Run :	1200	Start Depth :	3092.00 m	Mud Type :	KCl/Polymer		
Rig Bit No:	12	End Depth :	3675.00 m	Weight / Visc :	1.16 sg /	59.00	spl
Hole Size :	216.00 mm	Footage :	583.00 m	Chlorides :	34500 ppm		
Run Start :	05-Mar-05 19:39	Avg. Flow Rate :	630 gpm	PV / YP :	15.00 cp /	25.00	pa
Run End :	11-Mar-05 06:19	Avg. RPM :	80 rpm	Solids/Sand :	8.3 % /	0.25	%
BRT Hrs :	130.66	Avg. WOB :	10.00 klb	%Oil / O:W:	N/A % /	N/A:92	
Circ. Hrs :	39.64	Avg. ROP :	25.51 m/hr	pH/Fluid Loss:	9.50 pH /	4.80	cptm
Oper. Hrs :	130.66	Avg. SPP :	3070 psig	Max. Temp. :	104.00 degC		
MWD Schematics		BHA Schematics					
				Component	Length (m)	O.D. (mm)	I.D. (mm)
(6)		(11)					
(5)		(10)					
(4)	6. Positive Pulser SN : 8544	(9)					
(3)	5. TM SN : 091232	(8)					
(2)	4. HCIM SN : 091232	(7)	11. Drill Pipe (E)	853.44	127.000	108.610	
(1)	3. DGR SN : 043350 18.12 m From Bit	(6)	10. HWDP	138.80	127.000	76.200	
	2. EWR-P4 SN : 10505541 15.14 m From Bit	(5)	09. Drill Collar	18.59	165.000	70.000	
	1. PM SN : 69655 11.60 m From Bit	(4)	08. Drilling Jars	9.87	163.000	76.000	
		(3)	07. Drill Collar	28.06	165.000	70.000	
		(2)	06. Integral Blade Stabilizer	1.56	165.000	70.000	
		(1)	05. MWD	12.92	171.000	73.152	
			04. Float Sub	0.64	163.576	76.200	
			03. Integral Blade Stabilizer	1.75	171.450	114.300	
			02. 6-3/4" SperryDrill Motor	7.67	171.450	66.040	
			01. Hycalog RSX163DGW	0.22	216.000	63.500	
Comments				MWD Performance			
Drilled 216 mm hole section from 3092.0 mMDRT to 3675.0 mMDRT (well TD). POOH to run wireline logs.				Tool OD / Type :	171.00 mm /	MPT	
				MWD Real-time%:	75.00 %		
				MWD Recorded%:	100.00 %		
				Min. Inc. :	19.70 deg /	3662.14 m	
				Max. Inc. :	31.52 deg /	3114.34 m	
				Final Az. :	21.54 deg		
				Max Op. Press. :	5329 psig		

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
152.20	0.41	162.66	152.20	0.53 S	0.16 E	-0.47	TIE-IN
180.10	0.41	187.76	180.10	0.72 S	0.18 E	-0.65	0.19
208.30	0.52	134.85	208.30	0.91 S	0.26 E	-0.82	0.46
236.30	0.50	145.41	236.30	1.10 S	0.42 E	-0.96	0.10
265.10	0.48	133.55	265.09	1.29 S	0.58 E	-1.10	0.11
291.20	0.53	112.32	291.19	1.41 S	0.77 E	-1.17	0.22
322.80	0.31	122.92	322.79	1.52 S	0.98 E	-1.21	0.22
351.10	0.61	108.04	351.09	1.60 S	1.18 E	-1.24	0.34
379.50	0.62	106.95	379.49	1.69 S	1.47 E	-1.26	0.02
408.30	0.57	109.17	408.29	1.79 S	1.76 E	-1.27	0.06
436.40	0.50	108.39	436.39	1.87 S	2.01 E	-1.29	0.07
463.05	0.56	101.29	463.04	1.93 S	2.24 E	-1.29	0.10
493.81	1.55	39.19	493.79	1.64 S	2.65 E	-0.90	1.35
521.53	3.74	26.59	521.48	0.54 S	3.29 E	0.32	2.44
550.66	6.40	18.10	550.49	1.85 N	4.22 E	2.88	2.84
578.94	9.49	11.85	578.50	5.63 N	5.19 E	6.78	3.40
605.39	12.27	11.47	604.47	10.52 N	6.20 E	11.76	3.15
637.30	15.11	10.93	635.47	17.93 N	7.66 E	19.30	2.67
663.37	17.26	12.12	660.51	25.04 N	9.12 E	26.55	2.50
693.68	19.03	13.97	689.31	34.24 N	11.26 E	35.98	1.85
722.25	21.58	14.47	716.10	43.85 N	13.69 E	45.89	2.68
750.29	24.88	14.62	741.87	54.55 N	16.47 E	56.95	3.53
778.24	28.18	15.54	766.87	66.60 N	19.73 E	69.43	3.57
806.45	30.29	16.23	791.48	79.85 N	23.50 E	83.21	2.27
836.21	31.18	15.90	817.06	94.47 N	27.71 E	98.42	0.92
864.47	31.47	15.91	841.20	108.60 N	31.73 E	113.10	0.31
892.94	32.20	16.13	865.39	123.03 N	35.88 E	128.12	0.78
921.51	32.69	14.67	889.50	137.81 N	39.95 E	143.44	0.98
950.02	32.88	14.70	913.47	152.74 N	43.86 E	158.88	0.20
979.03	33.35	14.25	937.77	168.09 N	47.82 E	174.73	0.55
1009.22	34.05	15.10	962.89	184.29 N	52.07 E	191.48	0.84
1037.20	34.42	14.39	986.02	199.51 N	56.07 E	207.22	0.58
1065.76	34.72	14.47	1009.54	215.20 N	60.11 E	223.43	0.32
1080.74	34.99	14.71	1021.83	223.49 N	62.27 E	231.99	0.61
1123.52	34.54	14.36	1056.97	247.10 N	68.39 E	256.38	0.34
1150.74	34.23	14.27	1079.44	262.00 N	72.19 E	271.75	0.34
1178.17	33.67	14.48	1102.19	276.84 N	76.00 E	287.07	0.63
1208.00	33.51	14.74	1127.04	292.80 N	80.16 E	303.57	0.22
1237.02	33.62	14.39	1151.22	308.33 N	84.19 E	319.62	0.23
1265.61	34.21	14.57	1174.95	323.78 N	88.18 E	335.57	0.62

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1294.54	34.67	13.93	1198.80	339.64 N	92.21 E	351.93	0.61
1323.50	34.51	14.39	1222.64	355.58 N	96.23 E	368.37	0.32
1353.04	34.37	13.93	1247.00	371.78 N	100.32 E	385.08	0.30
1380.92	34.26	13.78	1270.03	387.04 N	104.08 E	400.79	0.15
1409.67	34.18	13.29	1293.80	402.76 N	107.87 E	416.96	0.30
1438.12	34.52	13.61	1317.29	418.38 N	111.60 E	433.01	0.40
1466.41	34.41	12.82	1340.62	433.96 N	115.26 E	449.01	0.49
1494.65	34.39	12.29	1363.92	449.53 N	118.73 E	464.95	0.32
1523.37	34.16	12.03	1387.65	465.34 N	122.14 E	481.10	0.28
1551.88	34.03	12.09	1411.26	480.97 N	125.48 E	497.06	0.14
1580.92	34.34	13.28	1435.29	496.89 N	129.06 E	513.36	0.76
1609.62	34.68	16.07	1458.94	512.61 N	133.18 E	529.62	1.69
1638.56	34.32	16.67	1482.79	528.34 N	137.80 E	546.00	0.50
1667.52	34.04	16.13	1506.75	543.94 N	142.39 E	562.27	0.43
1696.00	34.16	16.42	1530.33	559.27 N	146.87 E	578.23	0.22
1724.70	33.80	16.03	1554.13	574.67 N	151.35 E	594.27	0.44
1752.98	34.20	16.92	1577.57	589.84 N	155.84 E	610.08	0.67
1782.83	34.14	16.52	1602.27	605.89 N	160.66 E	626.83	0.23
1811.25	34.44	17.46	1625.75	621.21 N	165.34 E	642.83	0.64
1840.08	34.47	17.39	1649.52	636.77 N	170.22 E	659.13	0.05
1868.47	34.23	17.07	1672.96	652.07 N	174.97 E	675.14	0.32
1897.13	34.16	16.74	1696.67	667.48 N	179.65 E	691.23	0.20
1926.10	34.12	16.89	1720.64	683.04 N	184.36 E	707.48	0.09
1954.43	34.05	17.19	1744.11	698.22 N	189.01 E	723.35	0.19
1983.37	33.95	17.51	1768.10	713.67 N	193.83 E	739.52	0.21
2012.16	33.49	17.02	1792.05	728.93 N	198.58 E	755.48	0.56
2041.58	33.41	17.63	1816.59	744.41 N	203.41 E	771.69	0.35
2070.37	33.42	17.42	1840.63	759.53 N	208.18 E	787.52	0.12
2095.75	33.16	17.24	1861.84	772.83 N	212.33 E	801.44	0.32
2126.37	32.90	16.85	1887.51	788.78 N	217.22 E	818.12	0.33
2154.80	32.52	16.76	1911.44	803.49 N	221.66 E	833.47	0.40
2183.17	32.39	16.46	1935.38	818.08 N	226.01 E	848.69	0.22
2211.78	32.45	17.62	1959.75	832.54 N	229.91 E	863.67	2.34
2240.33	32.59	16.80	1984.25	846.84 N	233.15 E	878.32	0.19
2270.20	32.81	17.81	2009.91	861.87 N	235.90 E	893.55	2.46
2299.48	33.11	17.19	2035.11	876.58 N	238.33 E	908.39	0.53
2328.25	33.62	17.37	2059.98	890.79 N	241.03 E	922.81	1.12
2356.67	33.96	17.39	2084.46	904.95 N	243.79 E	937.21	1.85
2385.20	34.38	17.88	2108.79	919.48 N	247.06 E	952.10	1.94
2413.79	35.02	17.69	2132.82	934.47 N	251.02 E	967.60	1.94

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
2441.91	35.26	17.86	2156.24	949.49 N	255.06 E	983.15	0.66
2470.30	35.23	17.62	2179.93	964.64 N	259.01 E	998.80	0.16
2499.57	35.12	18.26	2204.21	980.45 N	263.15 E	1015.15	0.42
2528.66	34.89	17.69	2228.19	996.41 N	267.21 E	1031.62	0.86
2558.30	35.04	18.16	2252.50	1012.85 N	271.34 E	1048.57	1.13
2587.39	35.34	18.00	2276.08	1029.37 N	275.50 E	1065.60	0.81
2615.66	35.78	18.12	2298.76	1045.72 N	279.72 E	1082.48	0.06
2643.79	35.92	18.69	2321.23	1062.07 N	284.05 E	1099.40	0.31
2670.24	35.63	18.92	2342.32	1077.50 N	288.15 E	1115.37	0.31
2193.14	31.67	15.75	1943.83	823.16 N	227.48 E	853.97	2.44
2214.58	30.95	12.84	1962.15	833.95 N	230.23 E	865.11	2.34
2241.00	30.80	12.66	1984.82	847.17 N	233.23 E	878.66	0.19
2270.43	30.81	7.95	2010.11	861.99 N	235.92 E	893.67	2.46
2298.37	30.44	10.70	2034.15	876.03 N	238.22 E	907.83	1.56
2326.97	29.94	10.85	2058.87	890.16 N	240.91 E	922.18	0.53
2355.80	31.00	11.14	2083.72	904.51 N	243.70 E	936.76	1.12
2381.72	31.82	13.78	2105.84	917.70 N	246.62 E	950.26	1.85
2414.16	33.68	15.58	2133.12	934.67 N	251.07 E	967.80	1.94
2442.70	33.48	14.49	2156.90	949.92 N	255.17 E	983.59	0.66
2470.32	33.42	14.73	2179.94	964.65 N	259.01 E	998.81	0.16
2499.52	34.48	14.63	2204.17	980.42 N	263.14 E	1015.12	1.09
2528.50	34.47	13.92	2228.06	996.32 N	267.19 E	1031.53	0.42
2557.49	35.28	14.28	2251.84	1012.40 N	271.23 E	1048.10	0.86
2585.36	36.32	14.03	2274.44	1028.20 N	275.21 E	1064.40	1.13
2614.39	36.94	14.82	2297.74	1044.98 N	279.53 E	1081.72	0.81
2643.01	37.00	14.81	2320.61	1061.62 N	283.93 E	1098.93	0.06
2671.57	37.27	15.01	2343.38	1078.28 N	288.36 E	1116.17	0.31
2700.11	37.52	15.54	2366.05	1095.00 N	292.93 E	1133.50	0.43
2729.08	37.31	15.09	2389.06	1111.98 N	297.58 E	1151.10	0.36
2758.57	35.90	14.65	2412.73	1128.97 N	302.09 E	1168.69	1.46
2786.53	35.55	13.38	2435.43	1144.81 N	306.05 E	1185.01	0.88
2815.67	34.36	13.52	2459.32	1161.05 N	309.93 E	1201.70	1.23
2844.06	33.47	13.48	2482.88	1176.45 N	313.63 E	1217.53	0.95
2872.61	33.20	13.34	2506.73	1191.71 N	317.26 E	1233.22	0.29
2901.47	33.09	12.82	2530.89	1207.08 N	320.84 E	1248.99	0.32
2930.23	32.02	12.69	2555.14	1222.17 N	324.25 E	1264.45	1.12
2959.08	31.79	13.21	2579.63	1237.03 N	327.67 E	1279.69	0.37
2987.28	30.50	13.51	2603.76	1251.22 N	331.04 E	1294.27	1.39
3015.71	31.54	13.03	2628.13	1265.48 N	334.40 E	1308.91	1.13
3044.57	31.02	13.23	2652.79	1280.07 N	337.80 E	1323.89	0.55

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
3073.76	31.11	12.81	2677.92	1294.46 N	341.44 E	1338.73	1.36
3092.90	31.08	12.66	2694.43	1303.77 N	344.12 E	1348.42	1.81
3074.64	30.11	15.22	2678.68	1294.89 N	341.55 E	1339.17	1.36
3114.34	31.52	18.99	2712.78	1314.31 N	347.54 E	1359.49	1.81
3131.12	31.15	19.18	2727.12	1322.56 N	350.40 E	1368.19	0.68
3159.25	30.31	18.05	2751.30	1336.18 N	354.99 E	1382.53	1.09
3188.52	29.22	18.57	2776.70	1349.98 N	359.55 E	1397.04	1.15
3217.29	28.31	18.36	2801.92	1363.11 N	363.93 E	1410.85	0.95
3276.11	27.28	18.20	2853.96	1389.15 N	372.54 E	1438.23	0.53
3333.29	26.11	18.07	2905.04	1413.56 N	380.54 E	1463.88	0.61
3389.79	25.74	18.35	2955.85	1437.03 N	388.25 E	1488.54	0.21
3417.10	24.21	17.99	2980.61	1447.98 N	391.85 E	1500.05	1.69
3445.51	22.63	17.53	3006.68	1458.74 N	395.30 E	1511.33	1.67
3475.40	22.06	18.18	3034.32	1469.55 N	398.78 E	1522.68	0.63
3504.57	22.33	18.72	3061.33	1480.00 N	402.27 E	1533.68	0.35
3533.24	22.23	18.84	3087.86	1490.30 N	405.77 E	1544.52	0.12
3562.17	22.34	19.85	3114.63	1500.64 N	409.40 E	1555.46	0.41
3619.85	21.30	20.71	3168.18	1520.76 N	416.83 E	1576.80	0.56
3649.53	20.38	21.41	3195.92	1530.61 N	420.62 E	1587.30	0.96
3662.14	19.70	21.54	3207.76	1534.63 N	422.20 E	1591.60	1.62
3675.00	19.70	21.54	3219.87	1538.66 N	423.80 E	1595.90	0.00

Directional Survey Data

CALCULATION BASED ON Minimum Curvature METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT

TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD

VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 14.91 DEGREES (GRID)

A TOTAL CORRECTION OF 13.82 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.

HORIZONTAL DISPLACEMENT(CLOSURE) AT 3675.00 METRES

IS 1595.96 METRES ALONG 15.40 DEGREES (GRID)

RT - MSL = 21.5m

Final survey projected to TD.

Surveys from surface to 2183.17 mMDRT are from ZaneGrey-1

Kick-off point for ZaneGrey-1 ST1 is at 2190.0 mMDRT

Kick-off point for ZaneGrey-1 ST2 is at 3075.0 mMDRT

Service Interrupt Report

MWD run number :	0300	Time/Date of Failure :	04-Feb-05 04:00
Rig Bit Number :	2	Depth at time of Failure :	290.00 m
MWD Run start time/date :	04-Feb-05 03:32	Lost Rig Hours :	4.00
MWD Run end time/date :	04-Feb-05 10:54		

Rig Activity

Shallow Pulse Test MWD

Description of Failure

Failed to decode pulses from MWD tool at surface during SPT.

Action Taken

POOH and lay out MWD.

Operation Impact

Lost rig time to trip 290m back to surface and replace MWD.

Reason for Failure

Not able to be ascertained at rig site.

