







[illegible]

FRONT PAGE SUMMARY						Tour Sheet Serial Number	Vender Software Version	Year	Month	Day	DAILY CHECKS														
						BEAV15AC 20170308 2A	RMS 2016.6.14.37064	2017	03	08	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HOS Signs Posted If Required (4) Well License & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Drills Performed (7) Visually Inspected BOP's Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (one/crew/month) (2) CAODC Rig Safety Inspection Checklist (one/rig/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Kils Checked														
License No      Well Name						Surface Location	Piv	Loc Type	Unique Well ID	OP	RM														
32317      ARCRES HZ PARKLAND 12-07-081-16						12-7-81-16 W6	BC	DLS	103/04-13-081-17W6/00	CE	SL														
Operator						Contractor	Rig No	Well Type	Re-Entry	CE	SL														
ARC Resources Ltd.						Beaver Drilling Ltd.	15AC	HORIZ	<input type="checkbox"/>	CE	SL														
Operator's AFE						Contractor's Job No	Soud Date Time				CE	SL													
17DRLO007						0X47	02-Jan-2017	16:30			CE	SL													
Signature Of Operator's Representative						Signature Of Contractor's Rig Manager	Rig Release Date Time				CE	SL													
Chris Baehl						Shaun Low				CE	SL														
Code																									
Rig Up																									
Drill Actual																									
Reaming																									
Coring																									
Cond Mud & Circ																									
Trips																									
Rig Service																									
Repair Rig																									
Cut Off Drill Line																									
Dev Survey																									
Wireline Logs																									
Run Ctg & Cement																									
Wait On Cement																									
Nipple BOP																									
Test BOP																									
Drillstem Test																									
Plug Back																									
Squeeze Cement																									
Fishing																									
Dr Work																									
Safety Meeting																									
Tear Down																									
Waiting On																									
Rig Watch																									
Other																									
TOTAL																									
TOUR 1 SIGNATURE OF DRILLER Shaun Low START TIME 0:00 END TIME 8:00																									
BITS																									
DRILLING ASSEMBLY																									
MUD RECORD																									
DEVIATION SURVEYS																									
TIME LOG																									
Details Of Operations In Sequence & Remarks																									
From To Elapsed Code																									
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Remarks **644K John Deere Loader & JCB Zoom Boom used while walking rig**																									
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Contractor: Beaver Drilling Ltd.										Pro: BC		Lic Type: DLS		Unique Well ID: 103/04-13-081-17W6/00		Rig No: 15AC		Well Type: HORIZ		Re Entry: <input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Remarks            Rig &amp; Top Drive Service. Functioned Rig Smart crown saver, high &amp; low travel stops / limits, MCWS &amp; ZMS. Serviced hydraulic I-BOP &amp; functioned lower manual I-BOP. Visual inspection &amp; service of PS-21 slips &amp; inserts. Functioned annular preventer, 16 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast &amp; all over-head equipment. Completed pre-shift fall protection equipment visual inspection. Visual inspection of BOP &amp; valves completed by Rodney Ewing &amp; Dean Boehnet.            Drill vertical section of 200mm main hole from 964m to 1331m MD. Pump Rate - 2.0 m3/min, WOB - 16 kdaN, Rotary -70 RPM, Pump Pressure - 23,700 kPa, Torque - 8,000 ft/lbs, Diff Pressure - 4,000 kPa.            Accumulated time on reciprocating drill string, directional surveys &amp; connections. Crew hand-over meeting. 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Simulated a hard shut in. Crew evacuated to upwind muster area. Well secured in 90 seconds. Practiced rescue routes. Discussed stick diagram, kick warning signs / causes, shut in &amp; flowcheck procedures, ERP &amp; emergency contact list. STARS site # 3187. Verified BOP &amp; choke manifold valve alignment. Functioned both chokes &amp; flare igniter.            Drill vertical section of 200mm main hole from 1331m to 1607m MD. Pump Rate - 2.0 m3/min, WOB - 15 kdaN, Rotary -70 RPM, Pump Pressure - 24,500 kPa, Torque - 5,800 ft/lbs, Diff Pressure - 2,800 kPa.            Rig &amp; Top Drive Service. Functioned Rig Smart crown saver, high &amp; low travel stops / limits, MCWS &amp; ZMS. Serviced hydraulic I-BOP &amp; functioned lower manual I-BOP. Visual inspection &amp; service of PS-21 slips &amp; inserts. Functioned lower pipe rams , 6 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast &amp; all over-head equipment. Completed pre-shift fall protection equipment visual inspection. Visual inspection of BOP &amp; valves completed by Shaun Low &amp; Chris Baehl.            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KOP at 1691m MD. Pump Rate - 2.2 m3/min, WOB - 16 kdaN, Rotary -70 RPM, Pump Pressure - 26,500 kPa, Torque - 5,000 ft/lbs, Diff Pressure - 2,000 kPa.            Accumulated EM survey &amp; connection times.            Crew hand-over meeting. Discuss hazard id's &amp; daily events.            H2S man down drill while circulating. Simulated a hard shut in. Crew evacuated to upwind muster area. Well secured in 90 seconds. Practiced rescue routes. Discussed stick diagram, kick warning signs / causes, shut in &amp; flowcheck procedures, ERP &amp; emergency contact list. STARS site # 3187. Verified BOP &amp; choke manifold valve alignment. Functioned both chokes &amp; flare igniter.            Reciprocate drill string, pump 5m3 grout sweep &amp; circulate the hole clean. Review JSA. Flow check at 1681m. Pump 2.8m3 1375kg/m3 weighted pill with a 0.53m3 recovery.            Trip out of hole at 30m/min from 1691m to 133m MD. Flow check at 1584m, 824m &amp; 133m MD.         </td> </tr> <tr> <td colspan="10">TOUR 4</td> <td colspan="10">SIGNATURE OF DRILLER: Stefan Polny</td> <td colspan="5">START TIME: 24:00</td> <td colspan="5">END TIME: 06:00</td> </tr> </tbody> </table>																									Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	HOURS	Tour 1	6.25						0.50													0.75	0.50				Tour 2	5.75						0.50													1.50	0.25				Tour 3	2.75				1.00	3.50														0.25	0.50				TOTAL	14.75				1.00	3.50	1.00													2.50	1.25				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Rig Up</th> <th>Drill Actual</th> <th>Reaming</th> <th>Coring</th> <th>Core Mud &amp; Circ</th> <th>Trips</th> <th>Rig Service</th> <th>Repair Rig</th> <th>Cut Off Drill Line</th> <th>Dev Survey</th> <th>Wireline Logs</th> <th>Ran C&amp;G</th> <th>Wait On Cement</th> <th>Nipple BOP</th> <th>Test BOP</th> <th>Drillstem Test</th> <th>Plug Back</th> <th>Squeeze Cement</th> <th>Fishing</th> <th>Dr Work</th> <th>Safety Meeting</th> <th>Tear Down</th> <th>Waiting On</th> <th>Rig Watch</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td>TOTAL</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>																										Rig Up	Drill Actual	Reaming	Coring	Core Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Ran C&G	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dr Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL																										FUEL @ 08:00 HRS 10008 6750 06:00 12:22 LIGHT SNOW Wind Direction: N Wind Strength: UP TO 15 KM/H WEATHER: POOR		TOUR 1										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 0:00					END TIME: 8:00					BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG										Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Serial No: 7162424 Jars: 7.1 7.1 7.1 7.9 Depth Out (m): 459.00 Depth In (m): 872.00 Total Drilled (m): 872.00 Hrs Run Today: 6.25 Cumulative Hrs Run: 13.75 Entry Date: 10-Mar-2017										No: 1 Component: 200mm PDC Bit ID: 200 Length: 1.029 1 650ML Motor 165 1 8.65 1 Slick NMDC 167 72 9.27 1 165mm Gap Sub 164 79 1.72 2 Slick NMDC 167 72 9.27 1 4H90 x 4.5XH X/O 167 63 0.73 6 1/2" Drill Collar 167 59 96.54 1 x/o 4.5XH - 4"H90 163 63 0.79 2 4" CDS40 HWDP 101 65 18.87 1 Jars 165 66 4.95 46 4" CDS40 HWDP 101 65 18.87 27 Drill Pipe Stands 786.31 0 Drill Pipe Singles 0.00 Kelly Down: -11.40 Total: 1331.00 Weight of DC: 30.00 Weight of String: 63.00										Mud Type: Water Time: 02:15 05:00 Density: 1135 1135 Funnel Viscosity: 31 32 Fluid Loss: 0 0 pH: 11 11 Location Of Sample: Suction Suction Depth: 1109.42 1225.90 PVT: 58.5 45.44 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 PARALLEL 127 96 23700 8.00 2 PARALLEL 127 96 23700 8.00										Time Depth Deviation Direction Type 00:00 949.66 0.40 181.2 DIRECTIONAL 00:45 978.78 0.30 355.9 DIRECTIONAL 01:15 1007.89 0.70 101.7 DIRECTIONAL 01:30 1036.99 0.40 118.7 DIRECTIONAL 02:00 1066.13 0.10 287.6 DIRECTIONAL 02:15 1095.20 0.00 107.6 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Brine 8.00 1135 1110 1390 Lime Hydrated 8.00 1135 1110 1390 MUD MATERIALS ADDED Product Amount Type Brine 12 m3 Lime Hydrated 12 sxs Caustic Soda 2 sxs EnerFiber 6 sxs Enercure 2 sxs Limestone 0 grade 20 sxs Limestone 325 20 sxs EnerPac Regular 2 sxs Sawdust 40 sxs										From To Elapsed Code 0:00 0:30 0:50 7 0:30 6:45 6:25 2 6:45 7:30 0:75 20A 7:30 8:00 0:50 21 Details Of Operations In Sequence & Remarks Rig & Top Drive Service. 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TOUR 3										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 16:00					END TIME: 24:00					BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG										Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Serial No: 7162424 Jars: 7.1 7.1 7.1 7.9 Depth Out (m): 459.00 Depth In (m): 1232.00 Total Drilled (m): 1232.00 Hrs Run Today: 2.75 Cumulative Hrs Run: 22.25 Entry Date: 10-Mar-2017										No: 1 Component: 200mm PDC Bit ID: 200 Length: 1.029 1 650ML Motor 165 1 8.65 1 Slick NMDC 167 72 9.27 1 165mm Gap Sub 164 79 1.72 2 Slick NMDC 167 72 9.27 1 4H90 x 4.5XH X/O 167 63 0.73 6 1/2" Drill Collar 167 59 96.54 1 x/o 4.5XH - 4"H90 163 63 0.79 2 4" CDS40 HWDP 101 65 18.87 1 Jars 165 66 4.95 46 4" CDS40 HWDP 101 65 18.87 39 Drill Pipe Stands 1135.66 0 Drill Pipe Singles 0.00 Kelly Down: -0.75 Total: 1691.00 Weight of DC: 30.00 Weight of String: 72.00										Mud Type: Water Time: 21:00 Density: 1150 Funnel Viscosity: 32 Fluid Loss: 0 pH: 10.5 Location Of Sample: Suction Depth: 1691.52 PVT: 43.46 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 PARALLEL 127 104 26500 4.00 2 PARALLEL 127 104 26500 4.00										Time Depth Deviation Direction Type 16:00 1589.93 0.40 64.2 DIRECTIONAL 17:00 1619.03 0.50 17.7 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Brine 8.00 1150 1115 1370 Lime Hydrated 8.00 1150 1115 1370 MUD MATERIALS ADDED Product Amount Type Limestone 0 grade 10 sxs EnerPac Regular 1 sxs Enercure 1 sxs Calcium Chloride 15 sxs Brine 3 m3										From To Elapsed Code 16:00 18:45 2:75 2 18:45 19:00 0:25 20A 19:00 19:15 0:25 21 19:15 19:30 0:25 21A 19:30 20:30 1:00 5 20:30 24:00 3:50 6B Details Of Operations In Sequence & Remarks Drill vertical section of 200mm main hole from 1607m to 1691m MD. KOP at 1691m MD. Pump Rate - 2.2 m3/min, WOB - 16 kdaN, Rotary -70 RPM, Pump Pressure - 26,500 kPa, Torque - 5,000 ft/lbs, Diff Pressure - 2,000 kPa. Accumulated EM survey & connection times. Crew hand-over meeting. Discuss hazard id's & daily events. H2S man down drill while circulating. Simulated a hard shut in. Crew evacuated to upwind muster area. Well secured in 90 seconds. Practiced rescue routes. Discussed stick diagram, kick warning signs / causes, shut in & flowcheck procedures, ERP & emergency contact list. STARS site # 3187. Verified BOP & choke manifold valve alignment. Functioned both chokes & flare igniter. Reciprocate drill string, pump 5m3 grout sweep & circulate the hole clean. Review JSA. Flow check at 1681m. Pump 2.8m3 1375kg/m3 weighted pill with a 0.53m3 recovery. Trip out of hole at 30m/min from 1691m to 133m MD. Flow check at 1584m, 824m & 133m MD.										TOUR 4										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 24:00					END TIME: 06:00				
Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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License No: 32317    Well Name: ARCRCRES HZ PARKLAND 12-07-081-16 Tour Sheet Serial Number: BEAV15AC 20170311 1A    RMS 2016.6.14.37064 Surface Location: 12-781-16 W6    Prov: BC    Lic Type: DLS    Unique Well Id: 103/04-13-081-17W6/00 Contractor: Beaver Drilling Ltd.    15AC    Well Type: HORIZ    Re Entry: <input type="checkbox"/>										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Slick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/monthly) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked										 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ARC Resources Ltd. 17DR10007 Signature of Operator's Representative: Chris Baehl										0047 Signature of Contractor's Rig Manager: Shaun Low Spool Date Time: 02-Jan-2017    16:30										CE <input type="checkbox"/> FL <input type="checkbox"/> CE <input type="checkbox"/> SL <input type="checkbox"/> CE <input type="checkbox"/> SL <input type="checkbox"/> CE <input type="checkbox"/> SL <input type="checkbox"/> CE <input type="checkbox"/> SL <input type="checkbox"/> CE <input type="checkbox"/> SL <input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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<td>Reaming</td><td>5.75</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.50</td><td>0.25</td><td></td><td></td><td></td> </tr> <tr> <td>Coring</td><td>2.75</td><td></td><td></td><td></td><td>1.00</td><td>3.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.25</td><td>0.50</td><td></td><td></td><td></td> </tr> <tr> <td></td> <td>Tips</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td>Conc Mud &amp; 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<b>BITS</b> Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Type: 7162424 Serial No: 7.1 7.1 7.1 7.9 Jars: 7.1 7.1 7.9 Depth Out (m): 459.00 Depth In (m): 1232.00 Total Drilled (m): 2.75 Hrs Run Today: 22.25 Cumulative Hrs Run: 10-Mar-2017 Entry Date: 10-Mar-2017										<b>DRILLING ASSEMBLY</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No</th> <th>Component</th> <th>OD</th> <th>ID</th> <th>Length</th> </tr> </thead> <tbody> <tr><td>1</td><td>200mm PDC Bit</td><td>200</td><td>1</td><td>0.29</td></tr> <tr><td>1</td><td>650ML Motor</td><td>165</td><td>1</td><td>8.65</td></tr> <tr><td>1</td><td>Slick NMDC</td><td>167</td><td>72</td><td>9.27</td></tr> <tr><td>1</td><td>165mm Gap Sub</td><td>164</td><td>79</td><td>1.72</td></tr> <tr><td>2</td><td>Slick NMDC</td><td>167</td><td>72</td><td>18.12</td></tr> <tr><td>1</td><td>4H90 x 4.5XH X/O</td><td>167</td><td>63</td><td>0.73</td></tr> <tr><td>6</td><td>1/2" Drill Collar</td><td>167</td><td>59</td><td>96.54</td></tr> <tr><td>1</td><td>x/o 4.5XH - 4"H90</td><td>163</td><td>63</td><td>0.79</td></tr> <tr><td>2</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>18.87</td></tr> <tr><td>1</td><td>Jars</td><td>165</td><td>66</td><td>4.95</td></tr> <tr><td>46</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>18.87</td></tr> </tbody> </table>										No	Component	OD	ID	Length	1	200mm PDC Bit	200	1	0.29	1	650ML Motor	165	1	8.65	1	Slick NMDC	167	72	9.27	1	165mm Gap Sub	164	79	1.72	2	Slick NMDC	167	72	18.12	1	4H90 x 4.5XH X/O	167	63	0.73	6	1/2" Drill Collar	167	59	96.54	1	x/o 4.5XH - 4"H90	163	63	0.79	2	4" CDS40 HWDP	101	65	18.87	1	Jars	165	66	4.95	46	4" CDS40 HWDP	101	65	18.87	<b>MUD RECORD</b> Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 16:00 Density: 1150 Funnel Viscosity: 31 Fluid Loss: 10.5 pH: 10.5 Location Of Sample: Suction Depth: 1610.00 PVT: 40.28 Circulation: <input type="checkbox"/> Pump # Type Liner Size SPM Pressure Hrs Run 1 4200 @ 70 @ 1691.00 2 4170 @ 70 @ 1703.00										<b>DEVIATION SURVEYS</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Depth</th> <th>Deviation</th> <th>Direction</th> <th>Type</th> </tr> </thead> <tbody> <tr><td colspan="5">Remarks: Hazard ID : Hand operating 2 remotes. / Was told to stop and perform 1 task at a time.</td></tr> </tbody> </table>										Time	Depth	Deviation	Direction	Type	Remarks: Hazard ID : Hand operating 2 remotes. / Was told to stop and perform 1 task at a time.					<b>TIME LOG</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From</th> <th>To</th> <th>Elapsed</th> <th>Code</th> <th>Details Of Operations In Sequence &amp; Remarks</th> </tr> </thead> <tbody> <tr><td colspan="5">Remarks: Hazard ID : Hand operating 2 remotes. / Was told to stop and perform 1 task at a time.</td></tr> </tbody> </table>										From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks	Remarks: Hazard ID : Hand operating 2 remotes. / Was told to stop and perform 1 task at a time.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Pony	162	72	1.42	Density	1150		Type	SK413M	1	NM Flex Monel	162	72	9.40	Funnel Viscosity	90		Serial No	E235432	1	Gap sub	164	79	1.72	Fluid Loss	0		Jars	9.5 9.5	1	UBHO Sub	165	65	0.80	pH			Depth Out (m)	2127.00	3	NM Flex Monel	162	72	27.84	Location Of Sample	Suction		Depth In (m)	0.00	1	4" CD540 HWDP	101	65	18.87	Depth	2127.00		Total Drilled (m)	0.00	1	Jars	165	66	4.95	PVT	62.25		Hrs Run Today	0.00	46	4" CD540 HWDP	101	65	0.81				Cumulative Hrs Run	0.00	56	Drill Pipe	Stand	1631.44					Entry Date	14-Mar-2017	0	Drill Pipe	Singles	0.00					CUTTING STRUCTURE		Kelly Clean		Total		2127.00				TO	1	TO	1	TO	1	TO	1	TO	1	MO	WT	MO	WT	MO	WT	MO	WT	MO	WT	LOC	S	LOC	S	LOC	S	LOC	S	LOC	S	BRG		BRG		BRG		BRG		BRG		METRES DRILLED		HOLE CONDITION		REDUCED PUMP SPEED		PUMP #		Pressure		From	To	D-R-C	RPM	WOB	Hole Drag	Up	1	Down	1						Torque At Bottom				0						Fill On Bottom				0.00	TOUR 3 SIGNATURE OF DRILLER Stefan Polny		START TIME 16:00		END TIME 24:00		<table border="1" style="width:100%; border-collapse: 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Code		1	475 Mud Motor	125	1	3.19	Time			Manufacturer	Reed	1	4.75" NM Flex Monel	115	70	9.21	Density			Type	SK413M	1	4.75" Gap Sub	130	68	1.71	Funnel Viscosity			Serial No	E235432	2	4.75" NM Flex Monel	115	70	18.46	Fluid Loss			Jars	9.5 9.5	1	Slide reamer	125	58	1.44	pH			Depth Out (m)	2127.00	1	4.5XHXD40 X/O	105	60	0.80	Location Of Sample			Depth In (m)	53.00	5	4" CD540 Drill Pipe	102	64	48.58	Depth			Total Drilled (m)	1.25	1	4" CD540 Drill Pipe	102	64	48.58	PVT			Hrs Run Today	1.25	33	4" CD540 HWDP	101	65	31.27				Cumulative Hrs Run	1.25	0	Drill Pipe	Stand	0.00					Entry Date	14-Mar-2017	0	Drill Pipe	Singles	0.00					CUTTING STRUCTURE		Kelly Clean		Total		2180.00				TO	1	TO	1	TO	1	TO	1	TO	1	MO	WT	MO	WT	MO	WT	MO	WT	MO	WT	LOC	S	LOC	S	LOC	S	LOC	S	LOC	S	BRG		BRG		BRG		BRG		BRG		METRES DRILLED		HOLE CONDITION		REDUCED PUMP SPEED		PUMP #		Pressure		From	To	D-R-C	RPM	WOB	Hole Drag	Up	1	Down	2						Torque At Bottom				7000						Fill On Bottom				0.00	TOUR 4 SIGNATURE OF DRILLER Stefan Polny		START TIME 24:00		END TIME 00:00		Rate - 1.27 m3/min, WOB - 10 kdaN, Rotary - 70 RPM, Pump Pressure - 26,000 kPa, Torque - 7,000 ft/lbs, Diff Pressure - 7,500 kPa. Sliding parameters; WOB - 7 kdaN, Diff Pressure - 3,000 kPa.		Accumulated time on reciprocating drill string, directional surveys & connections.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">BITS</th> <th colspan="2">DRILLING ASSEMBLY</th> <th colspan="2">MUD RECORD</th> <th colspan="2">DEVIATION SURVEYS</th> <th colspan="2">TIME LOG</th> </tr> </thead> <tbody> <tr> <td>Bit Number</td> <td>4</td> <td>No</td> <td>Component</td> <td>OD</td> <td>ID</td> <td>Length</td> <td>Mud Type</td> <td>Water</td> <td>Oil</td> </tr> <tr> <td>Size</td> <td>159</td> <td>1</td> <td>159mm Reed PDC</td> <td>159</td> <td>1</td> <td>0.22</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>IADC Code</td> <td></td> <td>1</td> <td>475 Mud Motor</td> <td>125</td> <td>1</td> <td>3.19</td> <td>Time</td> <td></td> <td></td> </tr> <tr> <td>Manufacturer</td> <td>Reed</td> <td>1</td> <td>4.75" NM Flex Monel</td> <td>115</td> <td>70</td> <td>9.21</td> <td>Density</td> <td></td> <td></td> </tr> <tr> <td>Type</td> <td>SK413M</td> <td>1</td> <td>4.75" Gap Sub</td> <td>130</td> <td>68</td> <td>1.71</td> <td>Funnel Viscosity</td> <td></td> <td></td> </tr> <tr> <td>Serial No</td> <td>E235432</td> <td>2</td> <td>4.75" NM Flex Monel</td> <td>115</td> <td>70</td> <td>18.46</td> <td>Fluid Loss</td> <td></td> <td></td> </tr> <tr> <td>Jars</td> <td>9.5 9.5</td> <td>1</td> <td>Slide reamer</td> <td>125</td> <td>58</td> <td>1.44</td> <td>pH</td> <td></td> <td></td> </tr> <tr> <td>Depth Out (m)</td> <td>2127.00</td> <td>1</td> <td>4.5XHXD40 X/O</td> <td>105</td> <td>60</td> <td>0.80</td> <td>Location Of Sample</td> <td></td> <td></td> </tr> <tr> <td>Depth In (m)</td> <td>53.00</td> <td>5</td> <td>4" CD540 Drill Pipe</td> <td>102</td> <td>64</td> <td>48.58</td> <td>Depth</td> <td></td> <td></td> </tr> <tr> <td>Total Drilled (m)</td> <td>1.25</td> <td>1</td> <td>4" CD540 Drill Pipe</td> <td>102</td> <td>64</td> <td>48.58</td> <td>PVT</td> <td></td> <td></td> </tr> <tr> <td>Hrs Run Today</td> <td>1.25</td> <td>33</td> <td>4" CD540 HWDP</td> <td>101</td> <td>65</td> <td>31.27</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Cumulative Hrs Run</td> <td>1.25</td> <td>0</td> <td>Drill Pipe</td> <td>Stand</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Entry Date</td> <td>14-Mar-2017</td> <td>0</td> <td>Drill Pipe</td> <td>Singles</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> </tr></tbody></table>																									BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG		Bit Number	4	No	Component	OD	ID	Length	Mud Type	Water	Oil	Size	159	1	159mm Reed PDC	159	1	0.22		<input checked="" type="checkbox"/>	<input type="checkbox"/>	IADC Code		1	475 Mud Motor	125	1	3.19	Time			Manufacturer	Reed	1	4.75" NM Flex Monel	115	70	9.21	Density			Type	SK413M	1	4.75" Gap Sub	130	68	1.71	Funnel Viscosity			Serial No	E235432	2	4.75" NM Flex Monel	115	70	18.46	Fluid Loss			Jars	9.5 9.5	1	Slide reamer	125	58	1.44	pH			Depth Out (m)	2127.00	1	4.5XHXD40 X/O	105	60	0.80	Location Of Sample			Depth In (m)	53.00	5	4" CD540 Drill Pipe	102	64	48.58	Depth			Total Drilled (m)	1.25	1	4" CD540 Drill Pipe	102	64	48.58	PVT			Hrs Run Today	1.25	33	4" CD540 HWDP	101	65	31.27				Cumulative Hrs Run	1.25	0	Drill Pipe	Stand	0.00					Entry Date	14-Mar-2017	0	Drill Pipe	Singles	0.00																																																																																																																																																																																																																																																																									
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PDC	159	1	0.22		<input checked="" type="checkbox"/>	<input type="checkbox"/>	IADC Code		1	475 Mud Motor	125	1	3.19	Time			Manufacturer	Reed	1	4.75" NM Flex Monel	115	70	9.21	Density			Type	SK413M	1	4.75" Gap Sub	130	68	1.71	Funnel Viscosity			Serial No	E235432	2	4.75" NM Flex Monel	115	70	18.46	Fluid Loss			Jars	9.5 9.5	1	Slide reamer	125	58	1.44	pH			Depth Out (m)	2127.00	1	4.5XHXD40 X/O	105	60	0.80	Location Of Sample			Depth In (m)	53.00	5	4" CD540 Drill Pipe	102	64	48.58	Depth			Total Drilled (m)	1.25	1	4" CD540 Drill Pipe	102	64	48.58	PVT			Hrs Run Today	1.25	33	4" CD540 HWDP	101	65	31.27				Cumulative Hrs Run	1.25	0	Drill Pipe	Stand	0.00					Entry Date	14-Mar-2017	0	Drill Pipe	Singles	0.00					CUTTING STRUCTURE		Kelly Clean		Total		2180.00				TO	1	TO	1	TO	1	TO	1	TO	1	MO	WT	MO	WT	MO	WT	MO	WT	MO	WT	LOC	S	LOC	S	LOC	S	LOC	S	LOC	S	BRG		BRG		BRG		BRG		BRG		METRES DRILLED		HOLE CONDITION		REDUCED PUMP SPEED		PUMP #		Pressure		From	To	D-R-C	RPM	WOB	Hole Drag	Up	1	Down	2						Torque At Bottom				7000						Fill On Bottom				0.00	TOUR 4 SIGNATURE OF DRILLER Stefan Polny		START TIME 24:00		END TIME 00:00		Rate - 1.27 m3/min, WOB - 10 kdaN, Rotary - 70 RPM, Pump Pressure - 26,000 kPa, Torque - 7,000 ft/lbs, Diff Pressure - 7,500 kPa. Sliding parameters; WOB - 7 kdaN, Diff Pressure - 3,000 kPa.		Accumulated time on reciprocating drill string, directional surveys & connections.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																											
<b>License No</b> 32317 <b>Well Name</b> ARCRCRES HZ PARKLAND 12-07-081-16 <b>Contractor</b> AR Resources Ltd. <b>Beaver Drilling Ltd.</b> <b>Operator's #</b> 17DR10007 <b>Contractor's License No.</b> 0047 <b>Signature of Operator's Representative</b> Chris Baehl <b>Signature of Contractor's Rig Manager</b> Shaun Low										BEAV15AC 20170315 1A		RMS 2016.6.14.37064		2017		03		15		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/week/month) (2) CADCDC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked										 																																																																																																																											
<b>Surface Location</b> 12-7-81-16 W6 <b>Prov</b> BC <b>Loc Type</b> DLS <b>Unique Well Id</b> 103/04-13-081-17W6/00 <b>Rig No</b> 15AC <b>Well Type</b> HORIZ <b>Re Entry</b> <input type="checkbox"/>										<b>Spool Date Time</b> 02-Jan-2017 <b>Rig Release Date Time</b> 16:30																																																																																																																																															
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Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25																																																																																																																																
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TOUR 1										SIGNATURE OF DRILLER <b>Stefan Polny</b>										START TIME 0:00					END TIME 8:00				
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BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
<b>Bit Number</b> 4 <b>Size</b> 159 <b>IADC Code</b> Reed <b>Manufacturer</b> SK413M <b>Type</b> E235432 <b>Serial No</b> 9.5 9.5 <b>Jts</b> 9.5 9.5 <b>Depth Out (m)</b> 2127.00 <b>Depth In (m)</b> 297.00 <b>Total Drilled (m)</b> 5.00 <b>Hrs Run Today</b> 6.25 <b>Cumulative Hrs Run</b> 14-Mar-2017 <b>Entry Date</b> 14-Mar-2017										<b>No</b> 1 <b>Component</b> 159mm Reed PDC <b>OD</b> 159 <b>ID</b> 102.2 <b>Time</b> 05:15 <b>Density</b> 1150 <b>Funnel Viscosity</b> 59 <b>Fluid Loss</b> 0 <b>pH</b> 14.15 <b>Location Of Sample</b> Trough <b>Depth</b> 2342.07 <b>PVT</b> 57.92 <b>Circulation</b> <b>Pump #</b> 1 <b>Type</b> SINGLE <b>Liner Size</b> 127 <b>SPM</b> 120 <b>Pressure</b> 28000 <b>Hrs Run</b> 8.00 <b>2</b> SINGLE <b>127</b> <b>1</b> 28000 0.00										<b>Time</b> 03:00 <b>Depth</b> 2251.04 <b>Deviation</b> 88.70 <b>Direction</b> 321.2 <b>Type</b> DIRECTIONAL 03:15 2265.33 90.30 317.9 DIRECTIONAL 04:00 2279.50 90.50 315 DIRECTIONAL 04:15 2293.67 89.90 311.2 DIRECTIONAL 04:45 2307.89 89.60 307.5 DIRECTIONAL 05:15 2322.11 90.10 302.7 DIRECTIONAL <b>SOLIDS CONTROL</b> <b>Equipment Name</b> Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1150 1120 1380 0.00 0 0 0 <b>MUD MATERIALS ADDED</b> <b>Product</b> Amount Type										<b>From</b> <b>To</b> <b>Elapsed</b> <b>Code</b> Details Of Operations In Sequence & Remarks Remarks Boiler #2 Fuel @ 05:00 Hrs = 2772 litres **Completed service & visual inspection of ST-100 iron roughneck** Hazard ID : Directional hand running across location to make a slide. / Slide was completed before he reached the drillers cabin. Asked him not to run on location.																			
<b>CUTTING STRUCTURE</b> <b>TO</b> <b>LOC</b> <b>BRG</b> <b>Weight of DC</b> 47.52 <b>Weight of String</b> 70.00										<b>HOLE CONDITION</b> <b>Hole Drag</b> Up 3 Down 6 <b>Torque At Bottom</b> 8000 <b>Fill On Bottom</b> 0.00										<b>REDUCED PUMP SPEED</b> <b>Pump #</b> 1 <b>Pressure</b> 5800 <b>Strokes/min</b> 60 <b>Depth</b> 2199.00 1 6600 @ 60 @ 2295.00										<b>BOILER</b> <b>BoilerNo</b> <b>HoursRun</b> <b>pH</b> <b>StackTemp</b> <b>SAFETY</b> Safety Topic MEHL MACP Fall Protection. 74 3130																			
TOUR 2										SIGNATURE OF DRILLER <b>Justin Holt</b>										START TIME 8:00					END TIME 16:00																								

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
<b>Bit Number</b> 4 <b>Size</b> 159 <b>IADC Code</b> Reed <b>Manufacturer</b> SK413M <b>Type</b> E235432 <b>Serial No</b> 9.5 9.5 <b>Jts</b> 9.5 9.5 <b>Depth Out (m)</b> 2127.00 <b>Depth In (m)</b> 851.00 <b>Total Drilled (m)</b> 4.50 <b>Hrs Run Today</b> 10.75 <b>Cumulative Hrs Run</b> 14-Mar-2017 <b>Entry Date</b> 14-Mar-2017										<b>No</b> 1 <b>Component</b> 159mm Reed PDC <b>OD</b> 159 <b>ID</b> 102.2 <b>Time</b> 14:15 <b>Density</b> 1165 <b>Funnel Viscosity</b> 55 <b>Fluid Loss</b> 0 <b>pH</b> 14.15 <b>Location Of Sample</b> Trough <b>Depth</b> 2832.00 <b>PVT</b> 65.51 <b>Circulation</b> <b>Pump #</b> 1 <b>Type</b> SINGLE <b>Liner Size</b> 127 <b>SPM</b> 120 <b>Pressure</b> 30000 <b>Hrs Run</b> 8.00 <b>2</b> SINGLE <b>127</b> <b>1</b> 30000 0.00										<b>Time</b> 11:00 <b>Depth</b> 2642.35 <b>Deviation</b> 89.90 <b>Direction</b> 284.2 <b>Type</b> DIRECTIONAL 11:15 2671.50 90.60 285.1 DIRECTIONAL 12:00 2700.61 89.80 286.7 DIRECTIONAL 12:15 2729.74 91.20 287.7 DIRECTIONAL 12:45 2758.82 88.50 284.2 DIRECTIONAL 13:00 2787.96 88.20 284.9 DIRECTIONAL <b>SOLIDS CONTROL</b> <b>Equipment Name</b> Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1170 1155 1800 4.00 1170 1150 1800 <b>MUD MATERIALS ADDED</b> <b>Product</b> Amount Type										<b>From</b> <b>To</b> <b>Elapsed</b> <b>Code</b> Details Of Operations In Sequence & Remarks Remarks **Completed service & visual inspection of STV iron derrickhand** **Rear egress inspection and simulated launch performed** Hazard ID: Directional screen cord was hanging down onto top of drillers cabin top window. / I coiled up the cord and moved it off to the side.																			
<b>CUTTING STRUCTURE</b> <b>TO</b> <b>LOC</b> <b>BRG</b> <b>Weight of DC</b> 79.16 <b>Weight of String</b> 70.00										<b>HOLE CONDITION</b> <b>Hole Drag</b> Up 5 Down 10 <b>Torque At Bottom</b> 9500 <b>Fill On Bottom</b> 0.00										<b>REDUCED PUMP SPEED</b> <b>Pump #</b> 1 <b>Pressure</b> 6711 <b>Strokes/min</b> 60 <b>Depth</b> 2463.00 1 7058 @ 60 @ 2612.00 1 7363 @ 60 @ 2771.00										<b>BOILER</b> <b>BoilerNo</b> <b>HoursRun</b> <b>pH</b> <b>StackTemp</b> <b>SAFETY</b> Safety Topic MEHL MACP H2S BOP / Man Down Drill 81 3040																			
TOUR 3										SIGNATURE OF DRILLER <b>Stefan Polny</b>										START TIME 16:00					END TIME 24:00																								

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
<b>Bit Number</b> 4 <b>Size</b> 159 <b>IADC Code</b> Reed <b>Manufacturer</b> SK413M <b>Type</b> E235432 <b>Serial No</b> 9.5 9.5 <b>Jts</b> 9.5 9.5 <b>Depth Out (m)</b> 2127.00 <b>Depth In (m)</b> 1204.00 <b>Total Drilled (m)</b> 4.25 <b>Hrs Run Today</b> 15.00 <b>Cumulative Hrs Run</b> 14-Mar-2017 <b>Entry Date</b> 14-Mar-2017										<b>No</b> 1 <b>Component</b> 159mm Reed PDC <b>OD</b> 159 <b>ID</b> 102.2 <b>Time</b> 22:00 <b>Density</b> 1150 <b>Funnel Viscosity</b> 52 <b>Fluid Loss</b> 0 <b>pH</b> 14.15 <b>Location Of Sample</b> Trough <b>Depth</b> 3220.00 <b>PVT</b> 58.59 <b>Circulation</b> <b>Pump #</b> 1 <b>Type</b> SINGLE <b>Liner Size</b> 127 <b>SPM</b> 120 <b>Pressure</b> 33000 <b>Hrs Run</b> 5.00 <b>2</b> SINGLE <b>127</b> <b>120</b> 33000 3.00										<b>Time</b> 20:00 <b>Depth</b> 3137.25 <b>Deviation</b> 89.80 <b>Direction</b> 285.9 <b>Type</b> DIRECTIONAL 20:15 3166.36 90.50 284.9 DIRECTIONAL 21:00 3195.47 89.50 284.8 DIRECTIONAL 22:15 3224.58 88.90 286.4 DIRECTIONAL 22:30 1124.30 0.30 6.3 DIRECTIONAL 22:30 3253.68 89.30 287 DIRECTIONAL <b>SOLIDS CONTROL</b> <b>Equipment Name</b> Hours Run Intake Density Over Flow Density Under Flow Density 0.00 0 0 0 8.00 1150 1120 1400 <b>MUD MATERIALS ADDED</b> <b>Product</b> Amount Type										<b>From</b> <b>To</b> <b>Elapsed</b> <b>Code</b> Details Of Operations In Sequence & Remarks Remarks Hazard ID : Noticed level indicator light was on at the tank farm. / Alerted the Derrickhand, he was aware.																			
<b>CUTTING STRUCTURE</b> <b>TO</b> <b>LOC</b> <b>BRG</b> <b>Weight of DC</b> 80.27 <b>Weight of String</b> 69.00										<b>HOLE CONDITION</b> <b>Hole Drag</b> Up 7 Down 20 <b>Torque At Bottom</b> 10000 <b>Fill On Bottom</b> 0.00										<b>REDUCED PUMP SPEED</b> <b>Pump #</b> 1 <b>Pressure</b> 7500 <b>Strokes/min</b> 60 <b>Depth</b> 3093.00 2 7600 @ 60 @ 3218.00										<b>BOILER</b> <b>BoilerNo</b> <b>HoursRun</b> <b>pH</b> <b>StackTemp</b> <b>SAFETY</b> Safety Topic MEHL MACP Mud pump repair. 88 3040																			





FRONT PAGE SUMMARY										Tour Sheet Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																											
32317 ARCRCRES HZ PARKLAND 12-07-081-16										BEAV15AC 20170316 1C		RMS 2016.6.14.37064		2017		03		16		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HOS Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/week/month) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Vibs Checked										 																																																																																																																																											
ARC Resources Ltd.										Beaver Drilling Ltd.										Contractor's Licence No. 15AC Spool Date Time 02-Jan-2017 16:30 Signature of Contractor's Rig Manager Luke Hardy Signature of Operator's Representative Chris Baehl										Re-Entry <input type="checkbox"/> Refuse <input type="checkbox"/>																																																																																																																																											
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<b>REMARKS</b> Hazard ID : Winch snagged in the derrick during a lift. / Alerted the guys handling the lift. Set it down and re hoisted with line clear.																																																																																																																																																																									



TOUR	1	SIGNATURE OF DRILLER	Stefan Polny	START TIME	0:00	END TIME	8:00
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[illegible][illegible][illegible]

TOUR	<b>3</b>	SIGNATURE OF DRILLER	<b>Stefan Polny</b>		START TIME	<b>16:00</b>	END TIME	<b>24:00</b>
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BITS						DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS					TIME LOG										
Bit Number						No.	Component	ID	ID	Length	Mud Type	Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks					
Size															18:00					16:00	17:15	1.25	23A	Wait on Cements. (Reciprocate and circulate casing on bottom at 3689m MD. Work string at 5m/min, Pump Rate - 1.0m3/min.)					
IADC Code											Other									17:15	17:30	0.25	21	Review JSA & safety meeting prior to cementing production casing.					
Manufacturer																				17:30	19:00	1.50	12C	Break Top Drive out & Break x/o's connections to Casing with Rotary tongs. Blow back mud lines and top drive. Rig to & Cement 114.3mm 20.09 kg/m P-110 LT&C X 139.7mm 29.76 kg/m3 P-110 Tenaris Blue tapered production casing string with Trican; Pump 5m3 Opti, 2.5 m3 Scavenger, 34.5m3 Lead cement (34.5 ton & 1.7 ton Scavenger) 1600kg/m3, 35m3 Tail cement (35 ton)					
Type																								Launch Wiper Plug & displace 36.6m3.					
Serial No.											pH									19:00	19:30	0.50	21	Crew hand-over meeting. Discuss hazard id's & daily events.					
Jets											Location Of Sample	Shakers								19:30	20:45	1.25	12C	Bumped Wiper Plug @ 20:00hrs. 11m3 Cement to surface. Pressure test casing to 22,000kPa for 10 minutes. Flush 5000# BOP, Bell Nipple & Flow Line with Trican. Rig out Trican cement equipment.					
Depth Out (m)											Depth	3689.00																	
Depth In (m)											PVT	19.1																	
Total Drilled (m)											Circulation																		
Hrs Run Today											Pump #	Type	Linear Size	SPM	Pressure	Hrs Run													
Cumulative Hrs Run											1	SINGLE	127	1	0	0.00													
Entry Date											2	SINGLE	127	1	0	0.00													
CUTTING STRUCTURE						Kelly Dog					Remarks																		
T1																													
T2																													
MDC																													
LCC																													
BWD																													
METRES DRILLED						Kelly Dog																							
From	To	D-R-C	RPM	WOB																									

