



July 4, 2005

RE: Emile Lake A-77 Completion Information

Mr. Chris Knoechel  
444 Seventh Avenue  
Calgary, AB  
T2P 0X8

Dear Mr. Knoechel:

Please find attached a summary of completion information for Emile Lake A-77 well. I've used the Final Well Report regulations from the website, however, if you feel I've neglected to add any pertinent information please do not hesitate to contact me. I can be reached at 403-231-0788 or [Christina\\_charbonneau@anadarko.com](mailto:Christina_charbonneau@anadarko.com).

Thank you,

A handwritten signature in blue ink that reads "C. Charbonneau".

Christina Charbonneau  
Production Technician  
Anadarko Petroleum Corporation

Enclosure (1)

CMC

Emile Lake  
A-77  
Well Summary

Initial Completion

March 24/04 To April 5/04

Supervisor: Joe Graves



Anadarko Canada Corporation  
**Operations Summary Report**

Page 1 of 6

Legal Well Name: ANADARKO EMILE LAKE A-77  
Common Well Name: ANADARKO EMILE LAKE A-77  
Event Name: ORIG COMPLETION  
Contractor Name: GRIMES WELL SERVICE  
Rig Name: GRIMES WELL SERVICE

Spud Date: 02/03/2004  
Start: 24/03/2004 End: 05/04/2004  
Rig Release: 05/04/2004 Group:  
Rig Number: 7

| Date       | From - To     | Hours | Code | Sub Code | Phase  | Description of Operations                                                                                                                                                                                                                                                                  |
|------------|---------------|-------|------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24/03/2004 | 08:00 - 10:00 | 2.00  | 48   |          | MIRU   | RIG ARRIVED ON LOCATION AT 0945 HRS. CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                                                                                                                                                                            |
|            | 10:00 - 12:00 | 2.00  | 30   | A        | EVALPR | SPOT EQUIPMENT AND RIG UP. RUN PUMP LINES ETC.                                                                                                                                                                                                                                             |
|            | 12:00 - 13:00 | 1.00  | 30   | B        | EVALPR | DIG IN AND PULL TEST ANCHORS.                                                                                                                                                                                                                                                              |
|            | 13:00 - 15:30 | 2.50  | 30   |          | EVALPR | FIRE UP BOILER AND THAW OUT WELL HEAD                                                                                                                                                                                                                                                      |
|            | 15:30 - 17:30 | 2.00  | 31   |          | EVALPR | UNLOAD AND SPOT PIPE RACKS. UNLOAD 73 MM EUE TUBING. 207 JOINTS FROM PREMIUM'S YARD IN FORT ST JOHN AND 34 JOINTS FROM F - 56.                                                                                                                                                             |
|            | 17:30 - 23:00 | 5.50  | 30   | F        | EVALPR | REMOVE WELL HEAD AND INSTAL BOP'S. PRESSURE TEST RAMS TO 1000 KPA LOW AND 21,000 KPA HIGH, ANNULAR TO 7000 KPA. TEST GOOD 2300 HRS.                                                                                                                                                        |
|            | 23:00 - 00:00 | 1.00  | 31   | K        | EVALPR | RUN IN HOLE WITH RETRIEVING HEAD FOR BRIDGE PLUG ON 73 MM EUE TUBING, DRIFT AND TALLY ON WAY IN HOLE.                                                                                                                                                                                      |
| 25/03/2004 | 00:00 - 01:30 | 1.50  | 31   | K        | EVALPR | CONTINUE IN HOLE AND LATCH ONTO BRIDGE PLUG AT 0130 HRS.                                                                                                                                                                                                                                   |
|            | 01:30 - 05:30 | 4.00  | 31   | K        | EVALPR | RELEASE BRIDGE PLUG AT 0200 HRS. AND POOH, CHANGE OUT TO SLIM HOLE COLLARS ON WAY OUT OF HOLE.                                                                                                                                                                                             |
|            | 05:30 - 17:30 | 12.00 | 31   | K        | EVALPR | RUN IN HOLE WITH MUD MOTOR AND BIT ON 73 MM EUE TUBING. TAG AT 1868 MKB AND DRILL OUT TO 1872.4 MKB. AT 1530 HRS. CONTINUE IN HOLE, TAG AT 2159 MKB, DRILL OUT STRINGERS TO 2234.6 MKB. MUD MOTOR HUNG UP AT 2214 MKB, WORK THROUGH TIGHT SPOT THREE TIMES. ( SAFETY MEETING AT 0800 HRS.) |
|            | 17:30 - 22:30 | 5.00  | 31   | J        | EVALPR | CIRCULATE WELL TO 3 % KCL WATER, PUMP 40 M3                                                                                                                                                                                                                                                |
| 26/03/2004 | 22:30 - 00:00 | 1.50  | 31   | K        | EVALPR | RIG UP TO START OUT OF HOLE WITH MUD MOTOR. CONDUCT SAFETY MEETING                                                                                                                                                                                                                         |
|            | 00:00 - 03:00 | 3.00  | 31   | K        | EVALPR | START TO POOH WITH TUBING AND MUD MOTOR AT 0030 HRS. OUT WITH MUD MOTOR AT 0300 HRS.                                                                                                                                                                                                       |
|            | 03:00 - 06:00 | 3.00  | 33   |          | EVALPR | RIG IN IPS TO BOND LOG, RUN IN HOLE WITH CBL / VDL / GR / CCL TOOLS, TAG WITH LOGGING TOOLS AT 2214 MKB, CEMENT GOOD OVER INTERVAL TO BE PERFORATED, MADE THREE ATTEMPTS TO GET PAST 2214 MKB, HUNG UP ON THIRD ATTEMPT, PULL OUT WITH IPS, LEFT TOOLS DOWN HOLE AT 0600 HRS.              |
|            | 06:00 - 16:15 | 10.25 | 30   |          | EVALPR | CALL FOR FISHING TOOLS, HOT SHOT ARRIVED WITH FISHING TOOLS AT 1615 HRS.                                                                                                                                                                                                                   |
|            | 16:15 - 23:00 | 6.75  | 31   | K        | EVALPR | MAKE UP OVERSHOT WITH 1.625 " ( 41.275 MM ) GRAPPLE AND RUN IN HOLE WITH BUMPER SUB AND JARS ON 73 MM EUE TUBING. START IN HOLE AT 1615 HRS. TAG AT 2116.7 MKB AT 2000 HRS, SET DOWN TWICE WITH ONE AND A HALF DAN AND POOH AT 2300 HRS WITH OUT FISH.                                     |
|            | 23:00 - 00:00 | 1.00  | 33   |          | EVALPR | RIG IN IPS ELECTRIC LINE TRUCK AND RUN IN HOLE WITH SINKER BARS AND CCL, ( 50.8 MM ). TAG AT 2214 MKB, COULD NOT GET PAST 2214, APPEARS THAT FISH HAS NOT GONE DOWN HOLE. START TO POOH AT MIDNIGHT WITH ELECTRIC LINE.                                                                    |
|            |               |       |      |          |        |                                                                                                                                                                                                                                                                                            |
|            |               |       |      |          |        |                                                                                                                                                                                                                                                                                            |
| 27/03/2004 | 00:00 - 01:00 | 1.00  | 33   |          | EVALPR | POOH WITH CCL & SINKER BARS AT 0100 HRS.                                                                                                                                                                                                                                                   |



Anadarko Canada Corporation  
Operations Summary Report

Page 2 of 6

Legal Well Name: ANADARKO EMILE LAKE A-77  
Common Well Name: ANADARKO EMILE LAKE A-77  
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Contractor Name: GRIMES WELL SERVICE  
Rig Name: GRIMES WELL SERVICE

Spud Date: 02/03/2004  
Start: 24/03/2004 End: 05/04/2004  
Rig Release: 05/04/2004 Group:  
Rig Number: 7

| Date       | From - To     | Hours | Code | Sub Code | Phase  | Description of Operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|---------------|-------|------|----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27/03/2004 | 01:00 - 06:45 | 5.75  | 31   | K        | EVALPR | RUN IN HOLE WITH 44.45 MM GRAPPLE AND OVERSHOT, ATTEMPT TO LATCH ONTO FISH AT 2214 MKB, POOH WITH OUT FISH AT 0645 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | 06:45 - 14:00 | 7.25  | 31   | K        | EVALPR | RUN BACK IN HOLE WITH 34.75 MM GRAPPLE AND OVERSHOT, TAG AT 2242.5 MKB CIRCULATE AND POOH WITH OUT FISH AT 1400 HRS. ( SAFETY MEETING AT 0800 HRS. )                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | 14:00 - 19:10 | 5.17  | 31   | K        | EVALPR | RUN BACK IN HOLE WITH 44.45 MM GRAPPLE AND OVERSHOT, CIRCULATE ONTO FISH, PULLED 6,000 DAN OVER AND PULLED OUT OF HOLE WITH FISH AT 1910 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | 19:10 - 20:00 | 0.83  | 30   |          | EVALPR | PRESSURE TEST CASING TO 7,000 KPA FOR 10 MINUTES, TEST GOOD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | 20:00 - 21:00 | 1.00  | 33   | G        | EVALPR | RIG IN IPS ELECTRIC LINE TRUCK AND RUN IN HOLE WITH 92.71 MM GAUGE RING AND JUNK BASKET, TAG AT 2214.5 MKB AND WORK DOWN IN SOFT FILL TO 2217.3 MKB. POOH WITH JUNK BASKET ETC. AT 2100 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | 21:00 - 00:00 | 3.00  | 31   | J        | EVALPR | RUN IN HOLE WITH 98.4 MM BIT AND CASING SCRAPER FOR 114.3 MM CASING, RIG UP TO CIRCULATE FROM 2206 MKB AT MIDNIGHT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 28/03/2004 | 00:00 - 01:00 | 1.00  | 31   | J        | EVALPR | CIRCULATE CLEAN FROM 2206 - 2242.6 MKB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | 01:00 - 03:00 | 2.00  | 31   | K        | EVALPR | POOH WITH BIT AND SCRAPER AT 0300 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            | 03:00 - 05:15 | 2.25  | 35   | B        | EVALPR | RIG IN IPS AND RUN 86 MM HSCG, 32 GRAM CHARGES, 13 SPM, AND 90 DEGREE PHASING AND PERFORATE THE LANDRY FORMATION FROM 2209 - 2214 MKB AT 0445 HRS, POOH WITH SPENT GUN AT 0515 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | 05:15 - 06:30 | 1.25  | 33   |          | EVALPR | RUN IN HOLE WITH 98 MM GAUGE RING AND JUNK BASKET TO 2242 MKB, POOH AND LAY DOWN JUNK BASKET ETC. PERFORATIONS CLEAN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|            | 06:30 - 09:00 | 2.50  | 31   | K        | EVALPR | PICK UP WEATHERFORD SELECTIVE ACIDIZING TOOLS WITH 1 METRE SPACING, ALONG WITH SWAB PACKER AND START IN HOLE ON 73 MM EUE TUBING, RUN 234 JOINTS OF TUBING AND PRESSURE TEST IN BLANK PIPE TO 10,000 KPA, AT 0900 HRS. BOTTOM OF STRING AT 2201.39 MKB.                                                                                                                                                                                                                                                                                                                                                             |
|            | 09:00 - 09:30 | 0.50  | 48   |          | EVALPR | CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            | 09:30 - 19:00 | 9.50  | 38   | C        | EVALPR | PICKLE TUBING WITH .5 M3 OF 15 % ACID AND BACKWASH ACID AT 1130 HRS. RUN IN WITH TOOLS AND LOCATE OPEN BY-PASS VALVE AT 2220 MKB, SPOT 15 % ACID AT BY-PASS VALVE AND WASH PAST PERFORATIONS IN 100 L STAGES, TOTAL FIVE WASHES WITH BACK PRESSURE, COMPLETED AT 1400 HRS. POSITION SELECTIVE ACID TOOLS OVER BOTTOM 1 M OF PERFORATIONS AT 2213 - 2214 MKB AND START SQUEEZE ACID IN .5 M3 PER METRE. VERY TIGHT FORMATION, MAXIMUM PRESSURE 15,000 KPA AND 1.80 M3 OF ACID INTO PERFORATIONS 2209 -2214 MKB. LOWER BY-PASS BELOW PERFORATIONS AND BACK WASH, NO SIGN OF GAS ON RETURNS, JOB COMPLETE AT 1900 HRS. |
|            | 19:00 - 20:30 | 1.50  | 31   | C        | EVALPR | PULL AND LAY DOWN TWO JOINTS TUBING, SET SWAB PACKER AT 2198.38 MKB AND CLOSE BY-PASS VALVE, PRESSURE TEST ANNULUS TO 10,000 KPA, TEST GOOD, BLEED OFF AT 2030 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | 20:30 - 00:00 | 3.50  | 41   | B        | EVALPR | RIG UP TO SWAB IN WELL AT 2030 HRS. PULLED SEVEN SWABS TO 2230 HRS AND RECOVERED 6 M3 OF FLUID, PH 6 AND SALINITY 28000 PPM. PULLED 9 SWABS TO MIDNIGHT AND RECOVERED 6.48 M3 OF FLUID. PH 6 AND SALINITY 30,000 PPM. NO SIGN OF GAS, SEE FIELD NOTES FOR FURTHER DETAILS.                                                                                                                                                                                                                                                                                                                                          |
|            |               |       |      |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



Anadarko Canada Corporation  
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Page 3 of 6

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| Date       | From - To     | Hours | Code | Sub Code | Phase  | Description of Operations                                                                                                                                                                                                                                                                                                                |
|------------|---------------|-------|------|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29/03/2004 | 00:00 - 08:00 | 8.00  | 41   | B        | EVALPR | PULLED 6 SWABS TO 0600 HRS ALL DRY, SHUT IN WELL FOR 2 HRS, PRESSURE TO 53 KPA., BLEED OFF AND PULL ONE MORE DRY SWAB TO 0800 HRS. RIG IN TO KILL WELL AND POOH W/ ACIDIZING TOOLS ETC.                                                                                                                                                  |
|            | 08:00 - 08:15 | 0.25  | 48   |          | EVALPR | CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                                                                                                                                                                                                                                                               |
|            | 08:15 - 11:45 | 3.50  | 31   | K        | EVALPR | FILL TUBING W/ 6 M3 OF 3 % KCL WATER, RELEASE SWAB PACKER AT 0900 HRS. & POOH WITH SELECTIVE TOOLS AT 1145 HRS.                                                                                                                                                                                                                          |
|            | 11:45 - 14:20 | 2.58  | 33   | I        | EVALPR | RIG IN IPS, RUN PERMANENT BRIDGE PLUG AND SET AT 2198 MKB, PRESSURE TEST PLUG TO 10 MPA, TEST GOOD, DUMP BAIL 8 LINEAL METERS OF CEMENT ON TOP OF BRIDGE PLUG AND POOH W/ WIRELINE AT 1420 HRS.                                                                                                                                          |
|            | 14:20 - 19:45 | 5.42  | 33   | H        | EVALPR | RUN IN HOLE WITH 86 MM HSCG AND PERFORATE SLAVE POINT FROM 2005 TO 2010 MKB AT 1545 HRS. SECOND RUN PERFORATE 2001 - 2005 MKB AT 1700 HRS. THIRD RUN PERFORATE 1997 - 2001 MKB AT 1810 HRS. SLIGHT VACUUM AND NO SIGN OF GAS. POOH WITH WIRELINE AND RUN 93 NN GAUGE RING AND JUNK BASKET TO 2027 MKB. POOH AND RIG OUT IPS AT 1945 HRS. |
|            | 19:45 - 23:00 | 3.25  |      |          | EVALPR | RUN IN HOLE WITH SELECTIVE ACIDIZING TOOLS AND SWAB PACKER, PRESSURE TEST TOOLS IN BLANK PIPE AT 1993 MKB. TEST GOOD, RUN IN HOLE AND LOCATE CASING COLLAR AT 2014.7 MKB. AT 2245 HRS. POSITION TOOLS BELOW PERFORATIONS, OPEN BY-PASS AND START TO RIG IN FOR ACID JOB. 2300 HRS.                                                       |
|            | 23:00 - 23:15 | 0.25  | 48   |          | EVALPR | CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                                                                                                                                                                                                                                                               |
|            | 23:15 - 00:00 | 0.75  | 38   | B        | EVALPR | RIG IN HALLIBURTON AND START TO PUMP ACID FOR WASH AND SQUEEZE.                                                                                                                                                                                                                                                                          |
|            | 00:00 - 00:30 | 0.50  | 38   | C        | EVALPR | WASH PERFORATIONS 1997 - 2010 MKB. WITH 1.3 M3 OF 15 % ACID, 5 STAGES OF 260 L EACH. ACID ON VACUUM LAST TWO STAGES. AT 0030 HRS.                                                                                                                                                                                                        |
|            | 00:30 - 01:26 | 0.93  | 38   | C        | EVALPR | CLOSE UNLOADER AND MOVE UP AND SET SELECTIVE TOOLS OVER LAST 2 M OF PERFORATIONS AT 2008-2010 MKB. SQUEEZE 500 L ACID AT 300 KPA. MOVE UP IN 1 METER INTERVALS AND SQUEEZE 1 M3 IN EACH SECTION OF PERFORATIONS AT 1400 KPA TO 4200 KPA APPLIED PRESSURE. ACID AWAY AT 0126 HRS.                                                         |
| 30/03/2004 | 01:26 - 01:45 | 0.32  | 38   | B        | EVALPR | WELL ON VACUUM, RIG OUT HALLIBURTON AND START TO POOH W/ SELECTIVE TOOLS AND TUBING AT 0145 HRS.                                                                                                                                                                                                                                         |
|            | 01:45 - 03:30 | 1.75  | 31   | K        | EVALPR | PULL ONE JOINT OF TUBING AND WELL FLOWING, CIRCULATE OUT KICK, PULL THREE JOINTS OF TUBING, AND SET PACKER AT 1970 MKB, CLOSE BY-PASS VALVE AT 0330 HRS. LOST 18 M3 OF KCL WATER ON KILL.                                                                                                                                                |
|            | 03:30 - 09:10 | 5.67  | 47   |          | EVALPR | SHUT IN WELL AT 0400 HRS AND MONITOR PRESSURE. WAIT ON WATER TO 0910 HRS. BOTH CASING AND TUBING DEAD.                                                                                                                                                                                                                                   |
|            | 09:10 - 10:00 | 0.83  | 31   | J        | EVALPR | PUMP 4 M3 WATER DOWN TUBING, TUBING ON SLIGHT VACUUM, OPEN BY-PASS VALVE AND RELEASE PACKER AT 1000 HRS.                                                                                                                                                                                                                                 |
|            | 10:00 - 12:00 | 2.00  | 31   | K        | EVALPR | POOH WITH 11 STANDS OF TUBING AND WELL KICKED, CIRCULATE AND ATTEMPT TO KILL WELL, LOST AN ADDITIONAL 26 M3 OF WATER ( TOTAL 44 M3 OF WATER LOST TO DATE )                                                                                                                                                                               |
|            |               |       |      |          |        | SHUT IN WELL AT 1200 HRS AND WAIT ON WATER. TUBING BOTTOM AT 1785 MKB.                                                                                                                                                                                                                                                                   |
|            | 12:00 - 00:00 | 12.00 | 47   |          | EVALPR | WAIT ON WATER. TROUBLE FINDING WATER. FOUND WATER AT                                                                                                                                                                                                                                                                                     |



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Page 4 of 6

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|------------|---------------|-------|------|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30/03/2004 | 12:00 - 00:00 | 12.00 | 47   |          | EVALPR | 1700 HRS. START TO FILL STORAGE TANKS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 31/03/2004 | 00:00 - 04:00 | 4.00  | 47   |          | EVALPR | HAUL WATER FOR KILL JOB. 112 M3 OF FRESH WATER ON HAND AT 0400 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | 04:00 - 06:30 | 2.50  | 30   | E        | EVALPR | SITP 5590 KPA & SICP 7549 KPA AT 0430 HRS. BLED OFF GAS HEAD ON TUBING AND CASING, PRESSURE JUMPS BACK TO ORIGINAL, START TO KILL WELL AT 0530 HRS. PUMP 6 M3 OF WATER DOWN TUBING, ON VACUUM. PUMP 28 M3 DOWN ANNULUS, ON VACUUM, SLOW DOWN PUMP RATE TO .275 M3/MIN. AT 0630 HRS. AND CONTINUE PUMP RATE THROUGH OUT TUBING TRIP.                                                                                                                                                                                                                                                |
|            | 06:30 - 12:00 | 5.50  | 31   | K        | EVALPR | START TO POOH WITH SELECTIVE PACKERS AND TUBING AT 0635 HRS, OUT WITH TOOLS AT 0800 HRS. RUN IN HOLE WITH RE-ENTRY GUIDE, 1.81 " F NIPPLE, 3.09 M X 60.3 MM PUP JOINT, PACKER, ON-OFF TOOL W/ 1.87 " F PROFILE, AND 1.87 " FSG PLUG IN PLACE, X/O TO 73MM, HANDLING 73 MM PUP, 221 JOINTS 73 MM TUBING, SET PACKER IN 5000 DAN COMPRESSION LANDED IN TUBING HANGER AT 1100 HRS. PUMP 4.5 M3 OF INHIBITED WATER DOWN TUBING, FILL ANNULUS AND PRESSURE TEST ANNULUS TO 10,000 KPA. TEST GOOD. (INHIBITED LAST 35 M3 OF WATER AND MIXED WITH 40 L OF DIESEL DOWN ANNULUS ). 1200HRS. |
|            | 12:00 - 12:30 | 0.50  | 30   |          | EVALPR | REMOVE BOP'S AND INSTAL WELL HEAD AT 1230 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|            | 12:30 - 13:40 | 1.17  | 33   |          | EVALPR | RIG IN RAPID WIRELINE AND PULL PRONG & 1.87 " FSG PLUG FROM ON-OFF TOOL AT 1973 MCF AT 1355 HRS. TUBING PRESSURE 3500 KPA. AT 1340 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | 13:40 - 15:30 | 1.83  | 32   | A        | EVALPR | OPEN WELL ON CLEAN UP AT 1400 HRS.ON 24/64 " CHOKE, TUBING PRESSURE AT 3606 KPA. THEN PRESSURE TO 8446 KPA IN TEN MINUTES., MADE 3.45 M3 OF WATER IN FIFTEEN MINUTES, METER IN SERVICE AT 1415 HRS. , FLOW WELL TO 1530 HRS.GAS RATE 198.793 10/3-M/3 PER DAYAND TUBING FLOWING PRESSURE 13571 KPA. TOTAL FLUID RECOVERED 3.60 M3 . SHUT IN AT 1530 HRS. TO RUN RECORDERS.                                                                                                                                                                                                         |
|            | 15:30 - 18:30 | 3.00  | 33   |          | EVALPR | RIG IN RAPID WIRELINE AND SET RECORDERS ON DART AT 1977 MCF, ON BOTTOM 1627 HRS. POOH WITH WIRELINE AND RIG OUT RAPID. TWO HOUR SHUT IN AT 1830 HRS. OPEN WELL ON TEST.                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | 18:30 - 00:00 | 5.50  | 32   | D        | EVALPR | OPEN WELL ON 40/64 " CHOKE WITH 76.20 MM ORFICE PLATE IN PLACE. TUBING SHUT IN PRESSURE 14,334 KPA. AT 1830 HRS. GAS RATE 356.438 10/3 - M/3 PER DAY WITH TUBING PRESSURE AT 10,215 KPA. DECREASE CHOKE TO 26/64 " AT 2030 HRS. THEN OPEN TO 30/64 " AT 2200 HRS. GAS RATE AT 242.765 10/3 - M/3 PER DAY AT MIDNIGHT. TUBING FLOWING AT 12,471 KPA AND RECOVERED 3.81 M3 OF WATER TO DATE. CONTINUE TO FLOW TEST WELL, SEE FIELD NOTES FOR FURTHER DETAILS.                                                                                                                        |
| 01/04/2004 | 00:00 - 08:00 | 8.00  | 32   | D        | EVALPR | MOVE OFF SERVICE RIG AT 0445 HRS. FLOW WELL ON 30/64 " CHOKE ( 11.91 MM ) TO 0730 HRS. GAS RATE 246.744 10/3 - M/3 PER DAY. TUBING PRESSURE 11756 KPA. DECREASE CHOKE TO 24/64 " ( 9.53 MM ) AT 0740 HRS. IN ORDER TO LOWER VESSEL PRESSURE.                                                                                                                                                                                                                                                                                                                                       |



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Page 5 of 6

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| 01/04/2004 | 00:00 - 08:00 | 8.00  | 32   | D        | EVALPR |                                                                                                                                                                                                                                                                                                                                                                                                         |
|            | 08:00 - 08:15 | 0.25  | 48   |          | EVALPR |                                                                                                                                                                                                                                                                                                                                                                                                         |
|            | 08:15 - 12:00 | 3.75  | 32   | D        | EVALPR | CONDUCT SAFETY MEETING WITH ALL PERSONNEL. GAS RATE 175.730 10/3 - M/3 PER DAY AT 1200 HRS. TUBING FLOWING PRESSURE 12,034 KPA ( VESSEL PRESSURE HIGH )                                                                                                                                                                                                                                                 |
|            | 12:00 - 18:00 | 6.00  | 32   | D        | EVALPR | GAS RATE 165.718 10/3 - M/3 PER DAY, AND TUBING PRESSURE 12344 KPA. AT 1800 HRASHYDRATE PROBLEMS AT METER RUN, CONTINUE TO FLOW WELL. RECOVERED 4.33 M3 OF FLUID TOTAL. ( .73 M3 FLUID IN LAST 24 HRS. ) SEE FIELD NOTES FOR FURTHER DETAILS.                                                                                                                                                           |
| 02/04/2004 | 18:00 - 00:00 | 6.00  | 32   | D        | EVALPR | FLOW WELL ON 24/64 " CHOKE ( 9.53 MM ) WITH 76.20 MM ORFICE PLATE IN PLACE. FREEZING OFF FLOW LINES AND P. TANK. SHUT IN WELL AT 2030 HRS AND WAIT ON A LINE HEATER. GAS RATE AT 2000 HRS OF 181.866 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,655 KPA, METER RUN TEMPERATURE AT MINUS 21 DEGREE C.                                                                                         |
|            | 00:00 - 12:45 | 12.75 | 32   | D        | EVALPR | LINE HEATER ARRIVED ON LOCATION AT 0845 HRS. UNLOAD AND SPOT LINE HEATER, FILL WITH FRESH WATER AND FIRE UP LINE HEATER AT 0930 HRS. RIG IN LINES AND OPEN WELL AT 1245 HRS. SITP 14,110 KPA.                                                                                                                                                                                                           |
|            | 12:45 - 16:00 | 3.25  | 32   | D        | EVALPR | OPEN WELL AT 1245 HRS ON 30/64 " CHOKE ( 11.91 MM ) WITH 76.20 MM ORFICE PLATE IN PLACE. AT 1345 HRS GAS RATE AT 313.32 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,510 KPA. AT 1600 HRS GAS RATE TO 300.09 10/3 - M/3 PER DAY, TUBING PRESSURE 11,843 KPA, METER RUN TEMPERATURE AT + 14 DEGREE C. MADE 100 L. OF FLUID IN LAST HOUR, PH 9 AND SALINITY 36,000 PPM.                          |
|            | 16:00 - 18:00 | 2.00  | 32   | D        | EVALPR | FLOW RATE AT 1800 HRS. OF 296.887 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,873 KPA. TOTAL FLUID RECOVERED TO DATE = 4.90 M3, PH AT 7 AND SALINITY OF 20,000 PPM.                                                                                                                                                                                                                           |
| 03/04/2004 | 18:00 - 00:00 | 6.00  | 32   | D        | EVALPR | CONTINUE TO FLOW TEST WELL ON 30/64" ( 11.91 MM ) CHOKE WITH 76.20 MM ORFICE PLATE IN PLACE. GAS RATE AT MIDNIGHT 295.520 10/3 - M/3 PER DAY, TUBING PRESSURE 11,865 KPA. 5.31 M3 OF FLUID RECOVERED TO DATE, PH 7 AND SALINITY 2,000 PPM. METER RUN TEMP. 28 DEGREE C. AND TUBING TEMP. 30 DEGREE C.                                                                                                   |
|            | 00:00 - 18:00 | 18.00 | 32   | D        | EVALPR | GAS RATE AT 1200 HRS. OF 291.293 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,552 KPA. GAS RATE AT 1800 HRS OF 287.399 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,481 KPA. TOTAL FLUID TO DATE OF 7.12 M3 PH 7 AND SALINITY 2000 PPM. ( .95 M3 OF FLUID RECOVERED IN LAST 10 HRS. ) SEE FIELD NOTES FOR FURTHER DETAILS. ( CONDUCT SAFETY MEETING WITH ALL PERSONNEL AT 0900 HRS. ) |
| 04/04/2004 | 18:00 - 00:00 | 6.00  | 32   | D        | EVALPR | WELL FLOWING ON 11.91 MM CHOKE WITH 76.20 MM ORFICE PLATE IN PLACE, RATE 284.384 10/3 - M/3 PER DAY AT MIDNIGHT, TUBING PRESSURE AT 11,430 KPA. 7.34 M3 OF FLUID RECOVERED TO DATE, PH 7 AND SALINITY 2,000 PPM..                                                                                                                                                                                       |
|            | 00:00 - 12:00 | 12.00 | 32   | D        | EVALPR | GAS RATE AT 1200 HRS OF 282.814 10/3 - M/3 PER DAY WITH TUBING PRESSURE AT 11,299 KPA, SALINITY AND PH UNCHANGED. ( SAFETY MEETING AT 0800 HRS.)                                                                                                                                                                                                                                                        |
|            | 12:00 - 18:00 | 6.00  | 32   | D        | EVALPR | GAS RATE AT 1800 HRS OF 279.003 10/3 - M/3 PER DAY WITH                                                                                                                                                                                                                                                                                                                                                 |



Anadarko Canada Corporation  
**Operations Summary Report**

Page 6 of 6

Legal Well Name: ANADARKO EMILE LAKE A-77  
Common Well Name: ANADARKO EMILE LAKE A-77  
Event Name: ORIG COMPLETION  
Contractor Name: GRIMES WELL SERVICE  
Rig Name: GRIMES WELL SERVICE

Spud Date: 02/03/2004  
Start: 24/03/2004 End: 05/04/2004  
Rig Release: 05/04/2004 Group:  
Rig Number: 7

| Date       | From - To     | Hours | Code | Sub Code | Phase  | Description of Operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|---------------|-------|------|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 04/04/2004 | 12:00 - 18:00 | 6.00  | 32   | D        | EVALPR | TUBING PRESSURE AT 11,237 KPA. FLUID RECOVERED TO DATE 8.48 M3, SALINITY 2,000 PPM AND PH 7. ( FLUID RATE AT .071 M3 PER HOUR )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 05/04/2004 | 18:00 - 00:00 | 6.00  | 32   | D        | EVALPR | FLOW WELL ON 11.91 MM CHOKE WITH 76.20 MM ORFICE PLATE IN PLACE. FINAL FLOW RATE OF 280.908 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,174 KPA. TOTAL WATER PRODUCED THROUGH OUT CLEAN UP AND TEST OF 8.89 M3. SALINITY 2,000 PPM AND PH 7. SHUT IN AND SECURE WELL AT MIDNIGHT. ( GAS SAMPLES TAKEN PRIOR TO SHUT IN WELL.) SHUT IN AND SECURE WELL HEAD. SITP IN FOUR HOURS 13,485 KPA.                                                                                                                                                                                                                                                                                                                         |
|            | 00:00 - 05:00 | 5.00  | 32   | E        | RDMO   | RIG OUT TEST EQUIPMENT ETC. LOAD UP AND HAUL OUT EQUIPMENT AND FLUID TO FORT ST JOHN. ( TOTAL FLUID HAULED OUT 16.5 M3 TO DISPOSAL AT INTEGRITY, AGGRESSIVE TICKET # 4382 , LEFT FORT LIARD 0900 HRS )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 21/05/2004 | 07:00 - 19:30 | 12.50 |      |          |        | DRIVE FROM FORT LIARD TO KM 91 ON SIMPSON HIGHWAY. HAUL IN RAPID WIRE LINE C/W CAMERON WELLHEAD SKID UNITS. RIG IN RAPID WIRE LINE. SITP 14,113 KPA SICP 4,648 KPA. PULL RECORDERS FROM 1.81" "R" NIPPLE AT 1977.5 MCF AND DOWNLOAD. PULL DART FROM "R" NIPPLE. RUN STATIC GRADIENT W/5 MINUTE STOPS AT SURFACE,500,1000,1500,1900,19371967 & 1997.4 MCF. RUN AND SET 1.87" FSG PLUG IN "F" PROFILE AT 1973 MCF. BLEED DOWN TUBING TO ZERO. SET COLLAR STOP AT 47 MCF. SET 2.5" G-PACKOFF ON COLLAR STOP. SET 2.5" SLIP STOP ON TOP OF G-PACKOFF. RIG OUT WIRE LINE. RIG IN CAMERON AND SET BACK PRESSURE VALVE IN DOG NUT. CHAIN AND LOCK WELLHEAD. FLY OUT EQUIPMENT TO SIMPSON HIGHWAY. RETURN TO FORT LIARD. 1930 HOURS. |

Anadarko Canada Corporation  
**Daily Completion Workover Report**

Page 1 of 2

|                                                      |                                      |                       |
|------------------------------------------------------|--------------------------------------|-----------------------|
| Well Name: ANADARKO EMILE LAKE A-77                  |                                      | Date: 3/24/2004       |
| Well Location: 300/A- 77 Lat: 60° 46' Long: 122° 43' |                                      | Report #: 1           |
| Contractor: GRIMES WELL SERVICE                      | Rig #: 7                             | Final Report: N       |
| Supervisor: JOE GRAVES 250-261-4889                  | Engineer: DAVID SALAHUB 403-231-0577 | Start Date: 3/24/2004 |
| Phone #:                                             | Licence: 1964                        |                       |
| Event Type: ORIG COMPLETION                          | Objective: EXPLORATORY COMPLETION    |                       |
| AFE Number: 402979                                   | Objective2: COMPLETION - GAS         |                       |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 55,356 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 55,356   | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

**JOB**

Status: COMPLETE / TEST LANDRY FORMATION.

Comments: MOVE ON SERVICE RIG, CONDUCT SAFETY MEETING, DIG IN AND PULL TEST ANCHORS, UNLOAD TUBING, RIG UP RUN IN HOLE FOR BRIDGE PLUG.

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 16.00       |                |       |       |
| Cum. Hours: 16.00        |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

**WELL EQUIPMENT**

**REPORTS**

**SAFETY**

|                            |                        |           |         |                                 |
|----------------------------|------------------------|-----------|---------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F    | Perf: F | Last Safety Meeting: 03/24/2004 |
| Casing Depth: 1,968.00 (m) | Set @:                 | Flow: F   | Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F | Swab: F | Last PCP Rig Inspection: NONE   |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |           |         |                                 |

| FLUIDS(m3)             | OIL       | WATER       | OTHER     |
|------------------------|-----------|-------------|-----------|
|                        | Day Cum   | Day Cum     | Day Cum   |
| In Well:               | 0.00 0.00 | 0.00 0.00   | 0.00 0.00 |
| Recovered:             | 0.00 0.00 | 0.00 0.00   | 0.00 0.00 |
| Left to Recover:       | 0.00 0.00 | 0.00 0.00   | 0.00 0.00 |
| Haul In:               | 0.00 0.00 | 16.00 16.00 | 0.00 0.00 |
| Haul Off:              | 0.00 0.00 | 0.00 0.00   | 0.00 0.00 |
| Non-Recov. Ann. Fluid: | 0.00 0.00 | 0.00 0.00   | 0.00 0.00 |

**Time and Operations Summary**

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                        |
|-------|-------|------|--------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------|
| 08:00 | 10:00 | 2.00 | MIRU   | 48    |           | RIG ARRIVED ON LOCATION AT 0945 HRS. CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                     |
| 10:00 | 12:00 | 2.00 | EVALPR | 30    | A         | SPOT EQUIPMENT AND RIG UP. RUN PUMP LINES ETC.                                                                                      |
| 12:00 | 13:00 | 1.00 | EVALPR | 30    | B         | DIG IN AND PULL TEST ANCHORS.                                                                                                       |
| 13:00 | 15:30 | 2.50 | EVALPR | 30    |           | FIRE UP BOILER AND THAW OUT WELL HEAD                                                                                               |
| 15:30 | 17:30 | 2.00 | EVALPR | 31    |           | UNLOAD AND SPOT PIPE RACKS. UNLOAD 73 MM EUE TUBING. 207 JOINTS FROM PREMIUM'S YARD IN FORT ST JOHN AND 34 JOINTS FROM F - 56.      |
| 17:30 | 23:00 | 5.50 | EVALPR | 30    | F         | REMOVE WELL HEAD AND INSTAL BOP'S. PRESSURE TEST RAMS TO 1000 KPA LOW AND 21,000 KPA HIGH, ANNULAR TO 7000 KPA. TEST GOOD 2300 HRS. |
| 23:00 | 00:00 | 1.00 | EVALPR | 31    | K         | RUN IN HOLE WITH RETRIEVING HEAD FOR BRIDGE PLUG ON 73 MM                                                                           |



|                |                                       |             |                            |               |
|----------------|---------------------------------------|-------------|----------------------------|---------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 3/24/2004     |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 1             |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          | Final Report: |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | N             |
| Phone #:       |                                       | Licence:    | 1964                       | Start Date:   |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     | 3/24/2004     |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |

| From: | To:   | Hrs: | Phase: | Code: | Sub<br>Code: | Description:                                |
|-------|-------|------|--------|-------|--------------|---------------------------------------------|
| 23:00 | 00:00 | 1.00 | EVALPR | 31    | K            | EUE TUBING, DRIFT AND TALLY ON WAY IN HOLE. |



## Daily Completion Workover Report

|                |                                       |             |                            |               |
|----------------|---------------------------------------|-------------|----------------------------|---------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 3/25/2004     |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 2             |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          |               |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Final Report: |
| Phone #:       |                                       | Licence:    | 1964                       | N             |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     | Start Date:   |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           | 3/24/2004     |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 47,328 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 102,684  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

## JOB

Status: RUN IN HOLE W/ MUD MOTOR

Comments: CONDUCT SAFETY MEETING. POOH W/ B. PLUG. RUN MUD MOTOR, DRILL OUT, CHANGE HOLE TO 3 % KCL WATER. START POOH WITH MUD MOTOR.

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 24.00       |                |       |       |
| Cum. Hours: 40.00        |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

## WELL EQUIPMENT

## REPORTS

## SAFETY

|                            |                        |           |         |                                 |
|----------------------------|------------------------|-----------|---------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F    | Perf: F | Last Safety Meeting: 03/25/2004 |
| Casing Depth: 1,968.00 (m) | Set @:                 | Flow: F   | Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F | Swab: F | Last PCP Rig Inspection: NONE   |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |           |         |                                 |

| FLUIDS(m3) | OIL | WATER | OTHER |
|------------|-----|-------|-------|
|------------|-----|-------|-------|

|                        | Day  | Cum  | Day   | Cum   | Day  | Cum  |
|------------------------|------|------|-------|-------|------|------|
| In Well:               | 0.00 | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 |
| Recovered:             | 0.00 | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 |
| Left to Recover:       | 0.00 |      | 0.00  |       | 0.00 |      |
| Haul In:               | 0.00 | 0.00 | 60.00 | 76.00 | 0.00 | 0.00 |
| Haul Off:              | 0.00 | 0.00 | 58.00 | 58.00 | 0.00 | 0.00 |
| Non-Recov. Ann. Fluid: |      | 0.00 |       | 0.00  |      | 0.00 |

## Time and Operations Summary

| From: | To:   | Hrs:  | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                               |
|-------|-------|-------|--------|-------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00:00 | 01:30 | 1.50  | EVALPR | 31    | K         | CONTINUE IN HOLE AND LATCH ONTO BRIDGE PLUG AT 0130 HRS.                                                                                                                                                                                                                                   |
| 01:30 | 05:30 | 4.00  | EVALPR | 31    | K         | RELEASE BRIDGE PLUG AT 0200 HRS. AND POOH, CHANGE OUT TO SLIM HOLE COLLARS ON WAY OUT OF HOLE.                                                                                                                                                                                             |
| 05:30 | 17:30 | 12.00 | EVALPR | 31    | K         | RUN IN HOLE WITH MUD MOTOR AND BIT ON 73 MM EUE TUBING. TAG AT 1868 MKB AND DRILL OUT TO 1872.4 MKB. AT 1530 HRS. CONTINUE IN HOLE, TAG AT 2159 MKB, DRILL OUT STRINGERS TO 2234.6 MKB. MUD MOTOR HUNG UP AT 2214 MKB, WORK THROUGH TIGHT SPOT THREE TIMES. ( SAFETY MEETING AT 0800 HRS.) |

|                |                                       |             |                            |               |           |
|----------------|---------------------------------------|-------------|----------------------------|---------------|-----------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             |                            | Date:         | 3/25/2004 |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             |                            | Report #:     | 2         |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          | Final Report: | N         |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Start Date:   | 3/24/2004 |
| Phone #:       |                                       | Licence:    | 1964                       |               |           |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |               |           |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |           |

[illegible]



## Daily Completion Workover Report

|                |                                       |             |                            |               |
|----------------|---------------------------------------|-------------|----------------------------|---------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 3/26/2004     |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 3             |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          |               |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 |               |
| Phone #:       |                                       | Licence:    | 1964                       | Final Report: |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |               |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |
| Start Date:    | 3/24/2004                             |             |                            |               |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 49,994 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 152,678  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

## JOB

Status: BOND LOGGING

Comments: POOH WITH MUD MOTOR, RUN BOND LOG, LOST TOOLS DOWN HOLE, WAIT ON FISHING TOOLS, RUN IN AND LATCH ONTO FISH, POOH

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 24.00       |                |       |       |
| Cum. Hours: 64.00        |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

| WELL EQUIPMENT             | REPORTS                | SAFETY                          |
|----------------------------|------------------------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F                          |
| Casing Depth: 1,968.00 (m) | Set @:                 | Perf: F                         |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Flow: F                         |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      | Stim: F                         |
|                            |                        | Cement: F                       |
|                            |                        | Swab: F                         |
|                            |                        | Last Safety Meeting: 03/26/2004 |
|                            |                        | Last BOP Drill:                 |
|                            |                        | Last PCP Rig Inspection: NONE   |

| FLUIDS(m3)             | OIL       | WATER      | OTHER       |
|------------------------|-----------|------------|-------------|
|                        | Day Cum   | Day Cum    | Day Cum     |
| In Well:               | 0.00 0.00 | 0.00 0.00  | 0.00 0.00   |
| Recovered:             | 0.00 0.00 | 0.00 0.00  | 0.00 0.00   |
| Left to Recover:       | 0.00      | 0.00       | 0.00        |
| Haul In:               | 0.00 0.00 | 0.00 76.00 | 12.00 12.00 |
| Haul Off:              | 0.00 0.00 | 0.00 58.00 | 0.00 0.00   |
| Non-Recov. Ann. Fluid: | 0.00      | 0.00       | 0.00        |

## Time and Operations Summary

| From: | To:   | Hrs:  | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                  |
|-------|-------|-------|--------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00:00 | 03:00 | 3.00  | EVALPR | 31    | K         | START TO POOH WITH TUBING AND MUD MOTOR AT 0030 HRS. OUT WITH MUD MOTOR AT 0300 HRS.                                                                                                                                                                                          |
| 03:00 | 06:00 | 3.00  | EVALPR | 33    |           | RIG IN IPS TO BOND LOG, RUN IN HOLE WITH CBL / VDL / GR / CCL TOOLS, TAG WITH LOGGING TOOLS AT 2214 MKB, CEMENT GOOD OVER INTERVAL TO BE PERFORATED, MADE THREE ATTEMPTS TO GET PAST 2214 MKB, HUNG UP ON THIRD ATTEMPT, PULL OUT WITH IPS, LEFT TOOLS DOWN HOLE AT 0600 HRS. |
| 06:00 | 16:15 | 10.25 | EVALPR | 30    |           | CALL FOR FISHING TOOLS, HOT SHOT ARRIVED WITH FISHING TOOLS AT 1615 HRS.                                                                                                                                                                                                      |
| 16:15 | 23:00 | 6.75  | EVALPR | 31    | K         | MAKE UP OVERSHOT WITH 1.625 " ( 41.275 MM ) GRAPPLE AND RUN IN HOLE WITH BUMPER SUB AND JARS ON 73 MM EUE TUBING. START IN HOLE AT 1615 HRS. TAG AT 2116.7 MKB AT 2000 HRS, SET DOWN                                                                                          |

**Daily Completion Workover Report**

|                |                                       |             |                            |
|----------------|---------------------------------------|-------------|----------------------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              | Date:       | 3/26/2004                  |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' | Report #:   | 3                          |
| Contractor:    | GRIMES WELL SERVICE                   | Engineer:   | DAVID SALAHUB 403-231-0577 |
| Supervisor:    | JOE GRAVES 250-261-4889               | Licence:    | 1964                       |
| Phone #:       |                                       | Objective:  | EXPLORATORY COMPLETION     |
| Event Type:    | ORIG COMPLETION                       | Objective2: | COMPLETION - GAS           |
| AFE Number:    | 402979                                |             |                            |

**Time and Operations Summary**

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                            |
|-------|-------|------|--------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16:15 | 23:00 | 6.75 | EVALPR | 31    | K         | TWICE WITH ONE AND A HALF DAN AQND POOH AT 2300 HRS WITH OUT FISH.                                                                                                                                                      |
| 23:00 | 00:00 | 1.00 | EVALPR | 33    |           | RIG IN IPS ELECTRIC LINE TRUCK AND RUN IN HOLE WITH SINKER BARS AND CCL, ( 50.8 MM ). TAG AT 2214 MKB, COULD NOT GET PAST 2214, APPEARS THAT FISH HAS NOT GONE DOWN HOLE. START TO POOH AT MIDNIGHT WITH ELECTRIC LINE. |



## Daily Completion Workover Report

|                |                                       |             |                            |               |
|----------------|---------------------------------------|-------------|----------------------------|---------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 3/27/2004     |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 4             |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          | Final Report: |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | N             |
| Phone #:       |                                       | Licence:    | 1964                       | Start Date:   |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     | 3/24/2004     |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 38,769 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 191,447  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

## JOB

Status: POOH WITH OVERSHOT

Comments: SAFETY MEETING.POOH WIRELINE, RUN TUBING &amp; OVERSHO, POOH, NO FISH. RE-RUN OVERSHOT, POOH W/OUT FISH , RE- RUN AND PULL FISH, PT CSG. RUN G. RING, RUN BIT &amp; SCRAPER

| HOURS | ZONE Interval: | Zone: | Pool: |
|-------|----------------|-------|-------|
|-------|----------------|-------|-------|

|                   |        |
|-------------------|--------|
| Daily Hours:      | 24.00  |
| Cum. Hours:       | 88.00  |
| Man Hours Worked: | (t-km) |

## WELL EQUIPMENT

## REPORTS

## SAFETY

|                            |                        |           |         |                                 |
|----------------------------|------------------------|-----------|---------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F    | Perf: F | Last Safety Meeting: 03/27/2004 |
| Casing Depth: 1,968.00 (m) | Set @:                 | Flow: F   | Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F | Swab: F | Last PCP Rig Inspection: NONE   |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |           |         |                                 |

| FLUIDS(m3) | OIL | WATER | OTHER |
|------------|-----|-------|-------|
|------------|-----|-------|-------|

|                        | Day  | Cum  | Day  | Cum   | Day  | Cum   |
|------------------------|------|------|------|-------|------|-------|
| In Well:               | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  |
| Recovered:             | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  |
| Left to Recover:       | 0.00 |      | 0.00 |       | 0.00 |       |
| Haul In:               | 0.00 | 0.00 | 0.00 | 76.00 | 0.00 | 12.00 |
| Haul Off:              | 0.00 | 0.00 | 0.00 | 58.00 | 0.00 | 0.00  |
| Non-Recov. Ann. Fluid: |      | 0.00 |      | 0.00  |      | 0.00  |

## Time and Operations Summary

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                         |
|-------|-------|------|--------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00:00 | 01:00 | 1.00 | EVALPR | 33    |           | POOH WITH CCL & SINKER BARS AT 0100 HRS.                                                                                                             |
| 01:00 | 06:45 | 5.75 | EVALPR | 31    | K         | RUN IN HOLE WITH 44.45 MM GRAPPLE AND OVERSHOT, ATTEMPT TO LATCH ONTO FISH AT 2214 MKB, POOH WITH OUT FISH AT 0645 HRS.                              |
| 06:45 | 14:00 | 7.25 | EVALPR | 31    | K         | RUN BACK IN HOLE WITH 34.75 MM GRAPPLE AND OVERSHOT, TAG AT 2242.5 MKB CIRCULATE AND POOH WITH OUT FISH AT 1400 HRS. ( SAFETY MEETING AT 0800 HRS. ) |
| 14:00 | 19:10 | 5.17 | EVALPR | 31    | K         | RUN BACK IN HOLE WITH 44.45 MM GRAPPLE AND OVERSHOT, CIRCULATE ONTO FISH, PULLED 6,000 DAN OVER AND PULLED OUT OF HOLE WITH FISH AT 1910 HRS.        |
| 19:10 | 20:00 | 0.83 | EVALPR | 30    |           | PRESSURE TEST CASING TO 7,000 KPA FOR 10 MINUTES, TEST GOOD.                                                                                         |

Anadarko Canada Corporation  
**Daily Completion Workover Report**

Page 2 of 2

|                |                                       |             |                            |               |           |
|----------------|---------------------------------------|-------------|----------------------------|---------------|-----------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             |                            | Date:         | 3/27/2004 |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             |                            | Report #:     | 4         |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          | Final Report: | N         |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Start Date:   | 3/24/2004 |
| Phone #:       |                                       | Licence:    | 1964                       |               |           |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |               |           |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |           |

**Time and Operations Summary**

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                 |
|-------|-------|------|--------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20:00 | 21:00 | 1.00 | EVALPR | 33    | G         | RIG IN IPS ELECTRIC LINE TRUCK AND RUN IN HOLE WITH 92.71 MM GAUGE RING AND JUNK BASKET, TAG AT 2214.5 MKB AND WORK DOWN IN SOFT FILL TO 2217.3 MKB. POOH WITH JUNK BASKET ETC. AT 2100 HRS. |
| 21:00 | 00:00 | 3.00 | EVALPR | 31    | J         | RUN IN HOLE WITH 98.4 MM BIT AND CASING SCRAPER FOR 114.3 MM CASING, RIG UP TO CIRCULATE FROM 2206 MKB AT MIDNIGHT.                                                                          |



## Daily Completion Workover Report

|                |                                       |             |                            |
|----------------|---------------------------------------|-------------|----------------------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              | Date:       | 3/28/2004                  |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' | Report #:   | 5                          |
| Contractor:    | GRIMES WELL SERVICE                   | Engineer:   | DAVID SALAHUB 403-231-0577 |
| Supervisor:    | JOE GRAVES 250-261-4889               | Licence:    | 1964                       |
| Phone #:       |                                       | Objective:  | EXPLORATORY COMPLETION     |
| Event Type:    | ORIG COMPLETION                       | Objective2: | COMPLETION - GAS           |
| AFE Number:    | 402979                                | Start Date: | 3/24/2004                  |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 52,516 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 243,963  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

## JOB

Status: POOH WITH WIRELINE AND RUN SELECTIVE TOOLS.

Comments: CIRC. POOH W/ BIT ETC. PERFORATE LANDRY FORMATION SELECTIVE ACIDIZE ZONE AND SWAB IN WELL

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 24.00       |                |       |       |
| Cum. Hours: 112.00       |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

## WELL EQUIPMENT

## REPORTS

## SAFETY

|                            |                        |           |         |                                 |
|----------------------------|------------------------|-----------|---------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F    | Perf: F | Last Safety Meeting: 03/28/2004 |
| Casing Depth: 1,968.00 (m) | Set @:                 | Flow: F   | Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F | Swab: F | Last PCP Rig Inspection: NONE   |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |           |         |                                 |

| FLUIDS(m3) | OIL | WATER | OTHER |
|------------|-----|-------|-------|
|------------|-----|-------|-------|

|                        | Day  | Cum  | Day  | Cum   | Day  | Cum   |
|------------------------|------|------|------|-------|------|-------|
| In Well:               | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  |
| Recovered:             | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  |
| Left to Recover:       | 0.00 |      | 0.00 |       | 0.00 |       |
| Haul In:               | 0.00 | 0.00 | 0.00 | 76.00 | 0.00 | 12.00 |
| Haul Off:              | 0.00 | 0.00 | 0.00 | 58.00 | 0.00 | 0.00  |
| Non-Recov. Ann. Fluid: |      | 0.00 |      | 0.00  |      | 0.00  |

## Time and Operations Summary

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                        |
|-------|-------|------|--------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00:00 | 01:00 | 1.00 | EVALPR | 31    | J         | CIRCULATE CLEAN FROM 2206 - 2242.6 MKB.                                                                                                                                             |
| 01:00 | 03:00 | 2.00 | EVALPR | 31    | K         | POOH WITH BIT AND SCRAPER AT 0300 HRS.                                                                                                                                              |
| 03:00 | 05:15 | 2.25 | EVALPR | 35    | B         | RIG IN IPS AND RUN 86 MM HSCG, 32 GRAM CHARGES, 13 SPM, AND 90 DEGREE PHASING AND PERFORATE THE LANDRY FORMATION FROM 2209 - 2214 MKB AT 0445 HRS, POOH WITH SPENT GUN AT 0515 HRS. |
| 05:15 | 06:30 | 1.25 | EVALPR | 33    |           | RUN IN HOLE WITH 98 MM GAUGE RING AND JUNK BASKET TO 2242 MKB, POOH AND LAY DOWN JUNK BASKET ETC. PERFORATIONS CLEAN.                                                               |
| 06:30 | 09:00 | 2.50 | EVALPR | 31    | K         | PICK UP WEATHERFORD SELECTIVE ACIDIZING TOOLS WITH 1 METRE SPACING, ALONG WITH SWAB PACKER AND START IN HOLE ON 73 MM EUE TUBING, RUN 234 JOINTS OF TUBING AND PRESSURE TEST IN     |

**Daily Completion Workover Report**

|                |                                       |             |                            |           |
|----------------|---------------------------------------|-------------|----------------------------|-----------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 3/28/2004 |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 5         |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          |           |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 |           |
| Phone #:       |                                       | Licence:    | 1964                       |           |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |           |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |           |

**Time and Operations Summary**

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|-------|------|--------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 06:30 | 09:00 | 2.50 | EVALPR | 31    | K         | BLANK PIPE TO 10,000 KPA, AT 0900 HRS. BOTTOM OF STRING AT 2201.39 MKB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 09:00 | 09:30 | 0.50 | EVALPR | 48    |           | CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 09:30 | 19:00 | 9.50 | EVALPR | 38    | C         | PICKLE TUBING WITH .5 M3 OF 15 % ACID AND BACKWASH ACID AT 1130 HRS. RUN IN WITH TOOLS AND LOCATE OPEN BY-PASS VALVE AT 2220 MKB, SPOT 15 % ACID AT BY-PASS VALVE AND WASH PAST PERFORATIONS IN 100 L STAGES, TOTAL FIVE WASHES WITH BACK PRESSURE, COMPLETED AT 1400 HRS. POSITION SELECTIVE ACID TOOLS OVER BOTTOM 1 M OF PERFORATIONS AT 2213 - 2214 MKB AND START SQUEEZE ACID IN .5 M3 PER METRE. VERY TIGHT FORMATION, MAXIMUM PRESSURE 15,000 KPA AND 1.80 M3 OF ACID INTO PERFORATIONS 2209 -2214 MKB. LOWER BY-PASS BELOW PERFORATIONS AND BACK WASH, NO SIGN OF GAS ON RETURNS, JOB COMPLETE AT 1900 HRS. |
| 19:00 | 20:30 | 1.50 | EVALPR | 31    | C         | PULL AND LAY DOWN TWO JOINTS TUBING, SET SWAB PACKER AT 2198.38 MKB AND CLOSE BY-PASS VALVE, PRESSURE TEST ANNULUS TO 10,000 KPA, TEST GOOD, BLEED OFF AT 2030 HRS.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 20:30 | 00:00 | 3.50 | EVALPR | 41    | B         | RIG UP TO SWAB IN WELL AT 2030 HRS. PULLED SEVEN SWABS TO 2230 HRS AND RECOVERED 6 M3 OF FLUID, PH 6 AND SALINITY 28000 PPM. PULLED 9 SWABS TO MIDNIGHT AND RECOVERED 6.48 M3 OF FLUID. PH 6 AND SALINITY 30,000 PPM. NO SIGN OF GAS, SEE FIELD NOTES FOR FURTHER DETAILS.                                                                                                                                                                                                                                                                                                                                          |



## Daily Completion Workover Report

|                |                                       |             |                            |               |
|----------------|---------------------------------------|-------------|----------------------------|---------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 3/29/2004     |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 6             |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          | Final Report: |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | N             |
| Phone #:       |                                       | Licence:    | 1964                       | Start Date:   |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     | 3/24/2004     |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |

| COSTS               | WELL             | SURFACE        |
|---------------------|------------------|----------------|
| Daily Cost: 104,405 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 348,368   | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00      | H2S: 0.0370 (%)  | GL: 624.72 (m) |

## JOB

Status: SWABBING

Comments: SWAB, SAFETY MEETING, FILL TUBING, RELEASE &amp; POOH W/ PACKERS. RUN PERM. B. BLUG, DUMP B. CEMENT, PERFORATE SLAVE POINT, RUN G RING, RUN SELECTIVE TOOLS &amp; ACIDIZE.

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 24.00       |                |       |       |
| Cum. Hours: 136.00       |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

## WELL EQUIPMENT

## REPORTS

## SAFETY

|                            |                        |           |         |                                 |
|----------------------------|------------------------|-----------|---------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F    | Perf: F | Last Safety Meeting: 03/29/2004 |
| Casing Depth: 1,968.00 (m) | Set @:                 | Flow: F   | Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F | Swab: F | Last PCP Rig Inspection: NONE   |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |           |         |                                 |

| FLUIDS(m3) | OIL | WATER | OTHER |
|------------|-----|-------|-------|
|------------|-----|-------|-------|

|                        | Day  | Cum  | Day  | Cum   | Day  | Cum   |
|------------------------|------|------|------|-------|------|-------|
| In Well:               | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  |
| Recovered:             | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  |
| Left to Recover:       | 0.00 |      | 0.00 |       | 0.00 |       |
| Haul In:               | 0.00 | 0.00 | 0.00 | 76.00 | 0.00 | 12.00 |
| Haul Off:              | 0.00 | 0.00 | 0.00 | 58.00 | 0.00 | 0.00  |
| Non-Recov. Ann. Fluid: |      | 0.00 |      | 0.00  |      | 0.00  |

## Time and Operations Summary

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                    |
|-------|-------|------|--------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00:00 | 08:00 | 8.00 | EVALPR | 41    | B         | PULLED 6 SWABS TO 0600 HRS ALL DRY, SHUT IN WELL FOR 2 HRS, PRESSURE TO 53 KPA., BLEED OFF AND PULL ONE MORE DRY SWAB TO 0800 HRS. RIG IN TO KILL WELL AND POOH W/ ACIDIZING TOOLS ETC.         |
| 08:00 | 08:15 | 0.25 | EVALPR | 48    |           | CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                                                                                                                      |
| 08:15 | 11:45 | 3.50 | EVALPR | 31    | K         | FILL TUBING W/ 6 M3 OF 3 % KCL WATER, RELEASE SWAB PACKER AT 0900 HRS. & POOH WITH SELECTIVE TOOLS AT 1145 HRS.                                                                                 |
| 11:45 | 14:20 | 2.58 | EVALPR | 33    | I         | RIG IN IPS, RUN PERMANENT BRIDGE PLUG AND SET AT 2198 MKB, PRESSURE TEST PLUG TO 10 MPA, TEST GOOD, DUMP BAIL 8 LINEAL METERS OF CEMENT ON TOP OF BRIDGE PLUG AND POOH W/ WIRELINE AT 1420 HRS. |
| 14:20 | 19:45 | 5.42 | EVALPR | 33    | H         | RUN IN HOLE WITH 86 MM HSCG AND PERFORATE SLAVE POINT FROM                                                                                                                                      |

Anadarko Canada Corporation

**Daily Completion Workover Report**

Page 2 of 2

|                |                                       |             |                            |
|----------------|---------------------------------------|-------------|----------------------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              | Date:       | 3/29/2004                  |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' | Report #:   | 6                          |
| Contractor:    | GRIMES WELL SERVICE                   | Engineer:   | DAVID SALAHUB 403-231-0577 |
| Supervisor:    | JOE GRAVES 250-261-4889               | Licence:    | 1964                       |
| Phone #:       |                                       | Objective:  | EXPLORATORY COMPLETION     |
| Event Type:    | ORIG COMPLETION                       | Objective2: | COMPLETION - GAS           |
| AFE Number:    | 402979                                | Start Date: | 3/24/2004                  |

**Time and Operations Summary**

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                       |
|-------|-------|------|--------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:20 | 19:45 | 5.42 | EVALPR | 33    | H         | 2005 TO 2010 MKB AT 1545 HRS. SECOND RUN PERFORATE 2001 - 2005 MKB AT 1700 HRS. THIRD RUN PERFORATE 1997 - 2001 MKB AT 1810 HRS. SLIGHT VACUUM AND NO SIGN OF GAS. POOH WITH WIRELINE AND RUN 93 NN GAUGE RING AND JUNK BASKET TO 2027 MKB. POOH AND RIG OUT IPS AT 1945 HRS.      |
| 19:45 | 23:00 | 3.25 | EVALPR |       |           | RUN IN HOLE WITH SELECTIVE ACIDIZING TOOLS AND SWAB PACKER, PRESSURE TEST TOOLS IN BLANK PIPE AT 1993 MKB. TEST GOOD, RUN IN HOLE AND LOCATE CASING COLLAR AT 2014.7 MKB. AT 2245 HRS. POSITION TOOLS BELOW PERFORATIONS, OPEN BY-PASS AND START TO RIG IN FOR ACID JOB. 2300 HRS. |
| 23:00 | 23:15 | 0.25 | EVALPR | 48    |           | CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                                                                                                                                                                                                         |
| 23:15 | 00:00 | 0.75 | EVALPR | 38    | B         | RIG IN HALLIBURTON AND START TO PUMP ACID FOR WASH AND SQUEEZE.                                                                                                                                                                                                                    |



## Daily Completion Workover Report

|                |                                       |             |                            |               |
|----------------|---------------------------------------|-------------|----------------------------|---------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 3/30/2004     |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 7             |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          |               |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Final Report: |
| Phone #:       |                                       | Licence:    | 1964                       | Start Date:   |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |               |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 43,036 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 391,404  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

## JOB

Status: WAIT ON WATER

Comments: ACIDIZE, START POOH WITH SELECTIVE TOOLS, ATTEMPT TO KILL WELL. WAIT ON WATER

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 24.00       |                |       |       |
| Cum. Hours: 160.00       |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

## WELL EQUIPMENT

## REPORTS

## SAFETY

|                            |                        |           |         |                                 |
|----------------------------|------------------------|-----------|---------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F    | Perf: F | Last Safety Meeting: 03/30/2004 |
| Casing Depth: 1,968.00 (m) | Set @:                 | Flow: F   | Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F | Swab: F | Last PCP Rig Inspection: NONE   |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |           |         |                                 |

| FLUIDS(m3)             | OIL   | WATER | OTHER |
|------------------------|-------|-------|-------|
|                        | Day   | Cum   | Day   |
| In Well:               | 0.00  | 0.00  | 0.00  |
| Recovered:             | 0.00  | 0.00  | 0.00  |
| Left to Recover:       | 0.00  |       | 0.00  |
| Haul In:               | 90.00 | 90.00 | 0.00  |
| Haul Off:              | 0.00  | 0.00  | 0.00  |
| Non-Recov. Ann. Fluid: |       | 0.00  | 0.00  |

## Time and Operations Summary

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                     |
|-------|-------|------|--------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00:00 | 00:30 | 0.50 | EVALPR | 38    | C         | WASH PERFORATIONS 1997 - 2010 MKB. WITH 1.3 M3 OF 15 % ACID, 5 STAGES OF 260 L EACH. ACID ON VACUUM LAST TWO STAGES. AT 0030 HRS.                                                                                                                                                |
| 00:30 | 01:26 | 0.93 | EVALPR | 38    | C         | CLOSE UNLOADER AND MOVE UP AND SET SELECTIVE TOOLS OVER LAST 2 M OF PERFORATIONS AT 2008-2010 MKB. SQUEEZE 500 L ACID AT 300 KPA. MOVE UP IN 1 METER INTERVALS AND SQUEEZE 1 M3 IN EACH SECTION OF PERFORATIONS AT 1400 KPA TO 4200 KPA APPLIED PRESSURE. ACID AWAY AT 0126 HRS. |
| 01:26 | 01:45 | 0.32 | EVALPR | 38    | B         | WELL ON VACUUM, RIG OUT HALLIBURTON AND START TO POOH W/ SELECTIVE TOOLS AND TUBING AT 0145 HRS.                                                                                                                                                                                 |
| 01:45 | 03:30 | 1.75 | EVALPR | 31    | K         | PULL ONE JOINT OF TUBING AND WELL FLOWING, CIRCULATE OUT KICK, PULL THREE JOINTS OF TUBING, AND SET PACKER AT 1970 MKB,                                                                                                                                                          |

Anadarko Canada Corporation

**Daily Completion Workover Report**

Page 2 of 2

|                                                      |                                      |                       |
|------------------------------------------------------|--------------------------------------|-----------------------|
| Well Name: ANADARKO EMILE LAKE A-77                  |                                      | Date: 3/30/2004       |
| Well Location: 300/A- 77 Lat: 60° 46' Long: 122° 43' |                                      | Report #: 7           |
| Contractor: GRIMES WELL SERVICE                      | Rig #: 7                             | Final Report: N       |
| Supervisor: JOE GRAVES 250-261-4889                  | Engineer: DAVID SALAHUB 403-231-0577 | Start Date: 3/24/2004 |
| Phone #:                                             | Licence: 1964                        |                       |
| Event Type: ORIG COMPLETION                          | Objective: EXPLORATORY COMPLETION    |                       |
| AFE Number: 402979                                   | Objective2: COMPLETION - GAS         |                       |

**Time and Operations Summary**

| From: | To:   | Hrs:  | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                      |
|-------|-------|-------|--------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01:45 | 03:30 | 1.75  | EVALPR | 31    | K         | CLOSE BY-PASS VALVE AT 0330 HRS. LOST 18 M3 OF KCL WATER ON KILL.                                                                                                                                                                 |
| 03:30 | 09:10 | 5.67  | EVALPR | 47    |           | SHUT IN WELL AT 0400 HRS AND MONITOR PRESSURE. WAIT ON WATER TO 0910 HRS. BOTH CASING AND TUBING DEAD.                                                                                                                            |
| 09:10 | 10:00 | 0.83  | EVALPR | 31    | J         | PUMP 4 M3 WATER DOWN TUBING, TUBING ON SLIGHT VACUUM, OPEN BY-PASS VALVE AND RELEASE PACKER AT AT 1000 HRS.                                                                                                                       |
| 10:00 | 12:00 | 2.00  | EVALPR | 31    | K         | POOH WITH 11 STANDS OF TUBING AND WELL KICKED, CIRCULATE AND ATTEMPT TO KILL WELL, LOST AN ADDITIONAL 26 M3 OF WATER ( TOTAL 44 M3 OF WATER LOST TO DATE ) SHUT IN WELL AT 1200 HRS AND WAIT ON WATER. TUBING BOTTOM AT 1785 MKB. |
| 12:00 | 00:00 | 12.00 | EVALPR | 47    |           | WAIT ON WATER. TROUBLE FINDING WATER. FOUND WATER AT 1700 HRS. START TO FILL STORAGE TANKS.                                                                                                                                       |



## Daily Completion Workover Report

|                |                                       |             |                            |               |           |
|----------------|---------------------------------------|-------------|----------------------------|---------------|-----------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 3/31/2004     |           |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 8             |           |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          | Final Report: | N         |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Start Date:   | 3/24/2004 |
| Phone #:       |                                       | Licence:    | 1964                       |               |           |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |               |           |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |           |

## COSTS

## WELL

## SURFACE

|             |         |      |              |     |            |
|-------------|---------|------|--------------|-----|------------|
| Daily Cost: | 47,143  | PBD: | (m)          | KB: | 630.82 (m) |
| Cum Cost:   | 438,547 | TD:  | 1,968.00 (m) | CF: | 624.27 (m) |
| AFE Cost:   | 0.00    | H2S: | 0.0370 (%)   | GL: | 624.72 (m) |

## JOB

Status: KILLING WELL

Comments: ACIDIZE, START POOH WITH SELECTIVE TOOLS, ATTEMPT TO KILL WELL. WAIT ON WATER, KILL WELL POOH SELECTIVE TOOLS RUN PRODUCTION STRING REMOVE BOP'S, INSTAL WELL HEAD, PULL PLUG & FLOW WELL.

## HOURS

## ZONE Interval:

## Zone:

## Pool:

Daily Hours: 24.00  
 Cum. Hours: 184.00  
 Man Hours Worked: (t-km)

## WELL EQUIPMENT

## REPORTS

## SAFETY

|               |              |               |         |   |       |   |                          |            |
|---------------|--------------|---------------|---------|---|-------|---|--------------------------|------------|
| Casing Size:  | 177.8 (mm)   | Packer:       | Log:    | F | Perf: | F | Last Safety Meeting:     | 03/31/2004 |
| Casing Depth: | 1,968.00 (m) | Set @:        | Flow:   | F | Stim: | F | Last BOP Drill:          |            |
| Liner Size:   | 114.3 (mm)   | Tubing Size:  | Cement: | F | Swab: | F | Last PCP Rig Inspection: | NONE       |
| Liner Depth:  | 1,864.81 (m) | Tubing Depth: |         |   |       |   |                          |            |

## FLUIDS(m3)

## OIL

## WATER

## OTHER

|                        | Day  | Cum   | Day   | Cum   | Day  | Cum   |
|------------------------|------|-------|-------|-------|------|-------|
| In Well:               | 0.00 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00  |
| Recovered:             | 0.00 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00  |
| Left to Recover:       | 0.00 |       | 0.00  |       | 0.00 |       |
| Haul In:               | 0.00 | 90.00 | 12.00 | 88.00 | 0.00 | 12.00 |
| Haul Off:              | 0.00 | 0.00  | 7.75  | 65.75 | 0.00 | 0.00  |
| Non-Recov. Ann. Fluid: |      | 0.00  |       | 0.00  |      | 0.00  |

## Time and Operations Summary

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                                                                        |
|-------|-------|------|--------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00:00 | 04:00 | 4.00 | EVALPR | 47    |           | HAUL WATER FOR KILL JOB. 112 M3 OF FRESH WATER ON HAND AT 0400 HRS.                                                                                                                                                                                                                                                                 |
| 04:00 | 06:30 | 2.50 | EVALPR | 30    | E         | SITP 5590 KPA & SICP 7549 KPA AT 0430 HRS. BLED OFF GAS HEAD ON TUBING AND CASING, PRESSURE JUMPS BACK TO ORIGINAL, START TO KILL WELL AT 0530 HRS. PUMP 6 M3 OF WATER DOWN TUBING, ON VACUUM. PUMP 28 M3 DOWN ANNULUS, ON VACUUM, SLOW DOWN PUMP RATE TO .275 M3/MIN. AT 0630 HRS. AND CONTINUE PUMP RATE THROUGH OUT TUBING TRIP. |
| 06:30 | 12:00 | 5.50 | EVALPR | 31    | K         | START TO POOH WITH SELECTIVE PACKERS AND TUBING AT 0635 HRS, OUT WITH TOOLS AT 0800 HRS. RUN IN HOLE WITH RE-ENTRY GUIDE, 1.81 " F NIPPLE, 3.09 M X 60.3 MM PUP JOINT, PACKER, ON-OFF TOOL W/ 1.87 " F PROFILE, AND 1.87 " FSG PLUG IN PLACE, X/O TO 73MM,                                                                          |

## Daily Completion Workover Report

|                |                                       |               |                        |
|----------------|---------------------------------------|---------------|------------------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              | Date:         | 3/31/2004              |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' | Report #:     | 8                      |
| Contractor:    | GRIMES WELL SERVICE                   | Final Report: | N                      |
| Supervisor:    | JOE GRAVES 250-261-4889               | Start Date:   | 3/24/2004              |
| Phone #:       |                                       |               |                        |
| Event Type:    | ORIG COMPLETION                       | Objective:    | EXPLORATORY COMPLETION |
| AFE Number:    | 402979                                | Objective2:   | COMPLETION - GAS       |

## Time and Operations Summary

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|-------|------|--------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 06:30 | 12:00 | 5.50 | EVALPR | 31    | K         | HANDELING 73 MM PUP, 221 JOINTS 73 MM TUBING, SET PACKER IN 5000 DAN COMPRESSION LANDED IN TUBING HANGER AT 1100 HRS. PUMP 4.5 M3 OF INHIBITED WATER DOWN TUBING, FILL ANNULUS AND PRESSURE TEST ANNULUS TO 10,000 KPA. TEST GOOD. (INHIBITED LAST 35 M3 OF WATER AND MIXED WITH 40 L OF DIESEL DOWN ANNULUS ), 1200HRS.                                                                                                                                    |
| 12:00 | 12:30 | 0.50 | EVALPR | 30    |           | REMOVE BOP'S AND INSTAL WELL HEAD AT 1230 HRS.                                                                                                                                                                                                                                                                                                                                                                                                              |
| 12:30 | 13:40 | 1.17 | EVALPR | 33    |           | RIG IN RAPID WIRELINE AND PULL PRONG & 1.87 " FSG PLUG FROM ON-OFF TOOL AT 1973 MCF AT 1355 HRS. TUBING PRESSURE 3500 KPA. AT 1340 HRS.                                                                                                                                                                                                                                                                                                                     |
| 13:40 | 15:30 | 1.83 | EVALPR | 32    | A         | OPEN WELL ON CLEAN UP AT 1400 HRS.ON 24/64 " CHOKE, TUBING PRESSURE AT 3606 KPA. THEN PRESSURE TO 8446 KPA IN TEN MINUTES., MADE 3.45 M3 OF WATER IN FIFTEEN MINUTES, METER IN SERVICE AT 1415 HRS. , FLOW WELL TO 1530 HRS.GAS RATE 198.793 10/3-M/3 PER DAYAND TUBING FLOWING PRESSURE 13571 KPA. TOTAL FLUID RECOVERED 3.60 M3 . SHUT IN AT 1530 HRS. TO RUN RECORDERS.                                                                                  |
| 15:30 | 18:30 | 3.00 | EVALPR | 33    |           | RIG IN RAPID WIRELINE AND SET RECORDERS ON DART AT 1977 MCF, ON BOTTOM 1627 HRS. POOH WITH WIRELINE AND RIG OUT RAPID. TWO HOUR SHUT IN AT 1830 HRS. OPEN WELL ON TEST.                                                                                                                                                                                                                                                                                     |
| 18:30 | 00:00 | 5.50 | EVALPR | 32    | D         | OPEN WELL ON 40/64 " CHOKE WITH 76.20 MM ORFICE PLATE IN PLACE. TUBING SHUT IN PRESSURE 14,334 KPA. AT 1830 HRS. GAS RATE 356.438 10/3 - M/3 PER DAY WITH TUBING PRESSURE AT 10,215 KPA. DECREASE CHOKE TO 26/64 " AT 2030 HRS. THEN OPEN TO 30/64 " AT 2200 HRS. GAS RATE AT 242.765 10/3 - M/3 PER DAY AT MIDNIGHT. TUBING FLOWING AT 12,471 KPA AND RECOVERED 3.81 M3 OF WATER TO DATE. CONTINUE TO FLOW TEST WELL, SEE FIELD NOTES FOR FURTHER DETAILS. |



## Daily Completion Workover Report

|                |                                       |             |                            |               |
|----------------|---------------------------------------|-------------|----------------------------|---------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 4/1/2004      |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 9             |
| Contractor:    | GRIMES WELL SERVICE                   | Rig #:      | 7                          | Final Report: |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | N             |
| Phone #:       |                                       | Licence:    | 1964                       | Start Date:   |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     | 3/24/2004     |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 82,575 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 521,122  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

## JOB

Status: FLOW TEST WELL

Comments: SAFETY MEETING. MOVE OFF SERVICE RIG, FLOW WELL ON CLEAN UP AND TEST.

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 18.00       |                |       |       |
| Cum. Hours: 202.00       |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

## WELL EQUIPMENT

## REPORTS

## SAFETY

|                            |                        |           |         |                                 |
|----------------------------|------------------------|-----------|---------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F    | Perf: F | Last Safety Meeting: 04/01/2004 |
| Casing Depth: 1,968.00 (m) | Set @:                 | Flow: F   | Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F | Swab: F | Last PCP Rig Inspection: NONE   |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |           |         |                                 |

| FLUIDS(m3) | OIL | WATER | OTHER |
|------------|-----|-------|-------|
|------------|-----|-------|-------|

|                        | Day  | Cum   | Day  | Cum   | Day  | Cum   |
|------------------------|------|-------|------|-------|------|-------|
| In Well:               | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |
| Recovered:             | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |
| Left to Recover:       | 0.00 |       | 0.00 |       | 0.00 |       |
| Haul In:               | 0.00 | 90.00 | 0.00 | 88.00 | 0.00 | 12.00 |
| Haul Off:              | 0.00 | 0.00  | 0.00 | 65.75 | 0.00 | 0.00  |
| Non-Recov. Ann. Fluid: |      | 0.00  |      | 0.00  |      | 0.00  |

## Time and Operations Summary

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                 |
|-------|-------|------|--------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00:00 | 08:00 | 8.00 | EVALPR | 32    | D         | MOVE OFF SERVICE RIG AT 0445 HRS. FLOW WELL ON 30/64 " CHOKE ( 11.91 MM ) TO 0730 HRS. GAS RATE 246.744 10/3 - M/3 PER DAY. TUBING PRESSURE 11756 KPA. DECREASE CHOKE TO 24/64 " ( 9.53 MM ) AT 0740 HRS. IN ORDER TO LOWER VESSEL PRESSURE. |
| 08:00 | 08:15 | 0.25 | EVALPR | 48    |           | CONDUCT SAFETY MEETING WITH ALL PERSONNEL.                                                                                                                                                                                                   |

Anadarko Canada Corporation  
**Daily Completion Workover Report**

Page 2 of 2

|                |                                       |             |                            |
|----------------|---------------------------------------|-------------|----------------------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              | Date:       | 4/1/2004                   |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' | Report #:   | 9                          |
| Contractor:    | GRIMES WELL SERVICE                   | Engineer:   | DAVID SALAHUB 403-231-0577 |
| Supervisor:    | JOE GRAVES 250-261-4889               | Licence:    | 1964                       |
| Phone #:       |                                       | Objective:  | EXPLORATORY COMPLETION     |
| Event Type:    | ORIG COMPLETION                       | Objective2: | COMPLETION - GAS           |
| AFE Number:    | 402979                                | Start Date: | 3/24/2004                  |

**Time and Operations Summary**

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                  |
|-------|-------|------|--------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08:15 | 12:00 | 3.75 | EVALPR | 32    | D         | GAS RATE 175.730 10/3 -M/3 PER DAY AT 1200 HRS. TUBING FLOWING PRESSURE 12,034 KPA ( VESSEL PRESSURE HIGH )                                                                                                                                   |
| 12:00 | 18:00 | 6.00 | EVALPR | 32    | D         | GAS RATE 165.718 10/3 - M/3 PER DAY, AND TUBING PRESSURE 12344 KPA. AT 1800 HRASHYDRATE PROBLEMS AT METER RUN, CONTINUE TO FLOW WELL. RECOVERED 4.33 M3 OF FLUID TOTAL. ( .73 M3 FLUID IN LAST 24 HRS. ) SEE FIELD NOTES FOR FURTHER DETAILS. |



Anadarko Canada Corporation  
**Daily Completion Workover Report**

Page 1 of 2

|                                                      |                                      |                       |
|------------------------------------------------------|--------------------------------------|-----------------------|
| Well Name: ANADARKO EMILE LAKE A-77                  |                                      | Date: 4/2/2004        |
| Well Location: 300/A- 77 Lat: 60° 46' Long: 122° 43' |                                      | Report #: 10          |
| Contractor: JOE GRAVES 250-261-4889                  | Rig #: DAVID SALAHUB 403-231-0577    | Final Report: N       |
| Supervisor: JOE GRAVES 250-261-4889                  | Engineer: DAVID SALAHUB 403-231-0577 | Start Date: 3/24/2004 |
| Phone #: ORIG COMPLETION                             | Licence: 1964                        |                       |
| Event Type: ORIG COMPLETION                          | Objective: EXPLORATORY COMPLETION    |                       |
| AFE Number: 402979                                   | Objective2: COMPLETION - GAS         |                       |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 11,700 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 532,822  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

**JOB**

Status: FLOWED WELL AND SHUT IN AT 2030 HRS 4/1/2004

Comments: SAFETY MEETING. FLOW TEST WELL, FREEZING OFF FLOW LINE AND P. TANK. SHUT IN AND CALL FOR LINE HEATER. RIG IN LINE HEATER AND FLOW AT STABLE RATE.

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 24.00       |                |       |       |
| Cum. Hours: 226.00       |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

| WELL EQUIPMENT             | REPORTS                | SAFETY                          |
|----------------------------|------------------------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer: Log: F Perf: F | Last Safety Meeting: 04/02/2004 |
| Casing Depth: 1,968.00 (m) | Set @: Flow: F Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F Swab: F               |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      | Last PCP Rig Inspection: NONE   |

| FLUIDS(m3)             | OIL        | WATER      | OTHER      |
|------------------------|------------|------------|------------|
|                        | Day Cum    | Day Cum    | Day Cum    |
| In Well:               | 0.00 0.00  | 0.00 0.00  | 0.00 0.00  |
| Recovered:             | 0.00 0.00  | 0.00 0.00  | 0.00 0.00  |
| Left to Recover:       | 0.00 0.00  | 0.00 0.00  | 0.00 0.00  |
| Haul In:               | 0.00 90.00 | 0.00 88.00 | 0.00 12.00 |
| Haul Off:              | 0.00 0.00  | 0.00 65.75 | 0.00 0.00  |
| Non-Recov. Ann. Fluid: | 0.00 0.00  | 0.00 0.00  | 0.00 0.00  |

**Time and Operations Summary**

| From: | To:   | Hrs:  | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                                                    |
|-------|-------|-------|--------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18:00 | 00:00 | 6.00  | EVALPR | 32    | D         | FLOW WELL ON 24/64 " CHOKE ( 9.53 MM ) WITH 76.20 MM ORFICE PLATE IN PLACE. FREEZING OFF FLOW LINES AND P. TANK. SHUT IN WELL AT 2030 HRS AND WAIT ON A LINE HEATER. GAS RATE AT 2000 HRS OF 181.866 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,655 KPA, METER RUN TEMPERATURE AT MINUS 21 DEGREE C. |
| 00:00 | 12:45 | 12.75 | EVALPR | 32    | D         | LINE HEATER ARRIVED ON LOCATION AT 0845 HRS. UNLOAD AND SPOT LINE HEATER, FILL WITH FRESH WATER AND FIRE UP LINE HEATER AT 0930 HRS. RIG IN LINES AND OPEN WELL AT 1245 HRS. SITP 14,110 KPA.                                                                                                                   |
| 12:45 | 16:00 | 3.25  | EVALPR | 32    | D         | OPEN WELL AT 1245 HRS ON 30/64 " CHOKE ( 11.91 MM ) WITH 76.20 MM ORFICE PLATE IN PLACE. AT 1345 HRS GAS RATE AT 313.32 10/3 - M/3                                                                                                                                                                              |

Anadarko Canada Corporation  
**Daily Completion Workover Report**

Page 2 of 2

|                                                      |                                   |                       |
|------------------------------------------------------|-----------------------------------|-----------------------|
| Well Name: ANADARKO EMILE LAKE A-77                  |                                   | Date: 4/2/2004        |
| Well Location: 300/A- 77 Lat: 60° 46' Long: 122° 43' |                                   | Report #: 10          |
| Contractor:                                          | Rig #: DAVID SALAHUB 403-231-0577 | Final Report: N       |
| Supervisor: JOE GRAVES 250-261-4889                  | Engineer: 1964                    | Start Date: 3/24/2004 |
| Phone #:                                             | Licence: 1964                     |                       |
| Event Type: ORIG COMPLETION                          | Objective: EXPLORATORY COMPLETION |                       |
| AFE Number: 402979                                   | Objective2: COMPLETION - GAS      |                       |

**Time and Operations Summary**

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                |
|-------|-------|------|--------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12:45 | 16:00 | 3.25 | EVALPR | 32    | D         | PER DAY WITH TUBING FLOWING PRESSURE OF 11,510 KPA. AT 1600 HRS GAS RATE TO 300.09 10/3 - M/3 PER DAY, TUBING PRESSURE 11,843 KPA, METER RUN TEMPERATURE AT + 14 DEGREE C. MADE 100 L. OF FLUID IN LAST HOUR, PH 9 AND SALINITY 36,000 PPM. |
| 16:00 | 18:00 | 2.00 | EVALPR | 32    | D         | FLOW RATE AT 1800 HRS. OF 296.887 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,873 KPA. TOTAL FLUID RECOVERED TO DATE = 4.90 M3, PH AT 7 AND SALINITY OF 20,000 PPM.                                                               |



Anadarko Canada Corporation  
**Daily Completion Workover Report**

Page 1 of 2

|                                                      |                                   |                       |
|------------------------------------------------------|-----------------------------------|-----------------------|
| Well Name: ANADARKO EMILE LAKE A-77                  |                                   | Date: 4/3/2004        |
| Well Location: 300/A- 77 Lat: 60° 46' Long: 122° 43' |                                   | Report #: 11          |
| Contractor:                                          | Rig #: DAVID SALAHUB 403-231-0577 | Final Report: N       |
| Supervisor: JOE GRAVES 250-261-4889                  | Engineer: 1964                    | Start Date: 3/24/2004 |
| Phone #:                                             | Licence: EXPLORATORY COMPLETION   |                       |
| Event Type: ORIG COMPLETION                          | Objective2: COMPLETION - GAS      |                       |
| AFE Number: 402979                                   |                                   |                       |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 30,818 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 563,640  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

**JOB**

Status: WELL ON TEST

Comments: SAFETY MEETING. FLOW WELL OVER NIGHT, CONTINUE TO FLOW ON TEST.

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 24.00       |                |       |       |
| Cum. Hours: 250.00       |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

| WELL EQUIPMENT             | REPORTS   | SAFETY                          |
|----------------------------|-----------|---------------------------------|
| Casing Size: 177.8 (mm)    | Log: F    | Perf: F                         |
| Casing Depth: 1,968.00 (m) | Flow: F   | Stim: F                         |
| Liner Size: 114.3 (mm)     | Cement: F | Swab: F                         |
| Liner Depth: 1,864.81 (m)  |           |                                 |
| Packer: Set @: 73.0 (mm)   |           | Last Safety Meeting: 04/03/2004 |
| Tubing Size: 73.0 (mm)     |           | Last BOP Drill:                 |
| Tubing Depth: (m)          |           | Last PCP Rig Inspection: NONE   |

| FLUIDS(m3)             | OIL        | WATER      | OTHER      |
|------------------------|------------|------------|------------|
|                        | Day Cum    | Day Cum    | Day Cum    |
| In Well:               | 0.00 0.00  | 0.00 0.00  | 0.00 0.00  |
| Recovered:             | 0.00 0.00  | 0.00 0.00  | 0.00 0.00  |
| Left to Recover:       | 0.00       | 0.00       | 0.00       |
| Haul In:               | 0.00 90.00 | 0.00 88.00 | 0.00 12.00 |
| Haul Off:              | 0.00 0.00  | 0.00 65.75 | 0.00 0.00  |
| Non-Recov. Ann. Fluid: | 0.00       | 0.00       | 0.00       |

**Time and Operations Summary**

| From: | To:   | Hrs:  | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                                                                                                               |
|-------|-------|-------|--------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18:00 | 00:00 | 6.00  | EVALPR | 32    | D         | CONTINUE TO FLOW TEST WELL ON 30/64" ( 11.91 MM ) CHOKE WITH 76.20 MM ORFICE PLATE IN PLACE. GAS RATE AT MIDNIGHT 295.520 10/3 - M/3 PER DAY, TUBING PRESSURE 11,865 KPA. 5.31 M3 OF FLUID RECOVERED TO DATE, PH 7 AND SALINITY 2,000 PPM. METER RUN TEMP. 28 DEGREE C. AND TUBING TEMP. 30 DEGREE C.                                                                      |
| 00:00 | 18:00 | 18.00 | EVALPR | 32    | D         | GAS RATE AT 1200 HRS. OF 291.293 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,552 KPA. GAS RATE AT 1800 HRS OF 287.399 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,481 KPA. TOTAL FLUID TO DATE OF 7.12 M3 PH 7 AND SALINITY 2000 PPM. ( .95 M3 OF FLUID RECOVERED IN LAST 10 HRS. ) SEE FIELD NOTES FOR FURTHER DETAILS. ( CONDUCT SAFETY MEETING WITH |

|                |                                       |             |                            |               |           |
|----------------|---------------------------------------|-------------|----------------------------|---------------|-----------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             |                            | Date:         | 4/3/2004  |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             |                            | Report #:     | 11        |
| Contractor:    |                                       | Rig #:      |                            | Final Report: | N         |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Start Date:   | 3/24/2004 |
| Phone #:       |                                       | Licence:    | 1964                       |               |           |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |               |           |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |           |

| From: | To:   | Hrs:  | Phase: | Code: | Sub<br>Code: | Description:                 |
|-------|-------|-------|--------|-------|--------------|------------------------------|
| 00:00 | 18:00 | 18.00 | EVALPR | 32    | D            | ALL PERSONNEL AT 0900 HRS. ) |



## Daily Completion Workover Report

|                |                                       |             |                            |             |
|----------------|---------------------------------------|-------------|----------------------------|-------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             | Date:                      | 4/4/2004    |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             | Report #:                  | 12          |
| Contractor:    |                                       | Rig #:      | Final Report:              | N           |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Start Date: |
| Phone #:       |                                       | Licence:    | 1984                       | 3/24/2004   |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |             |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |             |

## COSTS

## WELL

## SURFACE

|             |         |      |              |     |            |
|-------------|---------|------|--------------|-----|------------|
| Daily Cost: | 87,775  | PBD: | (m)          | KB: | 630.82 (m) |
| Cum Cost:   | 651,415 | TD:  | 1,968.00 (m) | CF: | 624.27 (m) |
| AFE Cost:   | 0.00    | H2S: | 0.0370 (%)   | GL: | 624.72 (m) |

## JOB

Status: FLOW TEST WELL

Comments: SAFETY MEETING. FLOW WELL OVER NIGHT, CONTINUE TO FLOW ON TEST. SHUT IN AT MIDNIGHT

## HOURS

## ZONE Interval:

## Zone:

## Pool:

Daily Hours: 24.00  
 Cum. Hours: 274.00  
 Man Hours Worked: (t-km)

## WELL EQUIPMENT

## REPORTS

## SAFETY

|               |              |               |           |         |   |       |   |                          |            |
|---------------|--------------|---------------|-----------|---------|---|-------|---|--------------------------|------------|
| Casing Size:  | 177.8 (mm)   | Packer:       |           | Log:    | F | Perf: | F | Last Safety Meeting:     | 04/04/2004 |
| Casing Depth: | 1,968.00 (m) | Set @:        |           | Flow:   | F | Stim: | F | Last BOP Drill:          |            |
| Liner Size:   | 114.3 (mm)   | Tubing Size:  | 73.0 (mm) | Cement: | F | Swab: | F | Last PCP Rig Inspection: | NONE       |
| Liner Depth:  | 1,864.81 (m) | Tubing Depth: | (m)       |         |   |       |   |                          |            |

## FLUIDS(m3)

## OIL

## WATER

## OTHER

|                        | Day  | Cum   | Day  | Cum   | Day  | Cum   |
|------------------------|------|-------|------|-------|------|-------|
| In Well:               | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |
| Recovered:             | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0.00  |
| Left to Recover:       | 0.00 |       | 0.00 |       | 0.00 |       |
| Haul In:               | 0.00 | 90.00 | 0.00 | 88.00 | 0.00 | 12.00 |
| Haul Off:              | 0.00 | 0.00  | 0.00 | 65.75 | 0.00 | 0.00  |
| Non-Recov. Ann. Fluid: |      | 0.00  |      | 0.00  |      | 0.00  |

## Time and Operations Summary

| From: | To:   | Hrs:  | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                      |
|-------|-------|-------|--------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18:00 | 00:00 | 6.00  | EVALPR | 32    | D         | WELL FLOWING ON 11.91 MM CHOKE WITH 76.20 MM ORFICE PLATE IN PLACE, RATE 284.384 10/3 - M/3 PER DAY AT MIDNIGHT, TUBING PRESSURE AT 11,430 KPA. 7.34 M3 OF FLUID RECOVERED TO DATE, PH 7 AND SALINITY 2,000 PPM.. |
| 00:00 | 12:00 | 12.00 | EVALPR | 32    | D         | GAS RATE AT 1200 HRS OF 282.814 10/3 - M/3 PER DAY WITH TUBING PRESSURE AT 11,299 KPA, SALINITY AND PH UNCHANGED. ( SAFETY MEETING AT 0800 HRS.)                                                                  |
| 12:00 | 18:00 | 6.00  | EVALPR | 32    | D         | GAS RATE AT 1800 HRS OF 279.003 10/3 - M/3 PER DAY WITH TUBING PRESSURE AT 11,237 KPA. FLUID RECOVERED TO DATE 8.48 M3, SALINITY 2,000 PPM AND PH 7. ( FLUID RATE AT .071 M3 PER HOUR )                           |



Anadarko Canada Corporation

**Daily Completion Workover Report**

Page 1 of 2

|                                                      |                                   |                       |
|------------------------------------------------------|-----------------------------------|-----------------------|
| Well Name: ANADARKO EMILE LAKE A-77                  |                                   | Date: 4/5/2004        |
| Well Location: 300/A- 77 Lat: 60° 46' Long: 122° 43' |                                   | Report #: 13          |
| Contractor:                                          | Rig #: DAVID SALAHUB 403-231-0577 | Final Report: Y       |
| Supervisor: JOE GRAVES 250-261-4889                  | Engineer: 1964                    | Start Date: 3/24/2004 |
| Phone #:                                             | Licence: 1964                     |                       |
| Event Type: ORIG COMPLETION                          | Objective: EXPLORATORY COMPLETION |                       |
| AFE Number: 402979                                   | Objective2: COMPLETION - GAS      |                       |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 48,375 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 699,790  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

**JOB**

Status: WELL SHUT IN AT MIDNIGHT

Comments: SAFETY MEETING. FLOW WELL OVER NIGHT, CONTINUE TO FLOW ON TEST. SHUT IN AT MIDNIGHT

| HOURS | ZONE Interval: | Zone: | Pool: |
|-------|----------------|-------|-------|
|-------|----------------|-------|-------|

Daily Hours: 11.00  
Cum. Hours: 285.00  
Man Hours Worked: (t-km)

**WELL EQUIPMENT**

**REPORTS**

**SAFETY**

|                            |                        |           |         |                                 |
|----------------------------|------------------------|-----------|---------|---------------------------------|
| Casing Size: 177.8 (mm)    | Packer:                | Log: F    | Perf: F | Last Safety Meeting: 04/05/2004 |
| Casing Depth: 1,968.00 (m) | Set @:                 | Flow: F   | Stim: F | Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F | Swab: F | Last PCP Rig Inspection: NONE   |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |           |         |                                 |

| FLUIDS(m3) | OIL | WATER | OTHER |
|------------|-----|-------|-------|
|------------|-----|-------|-------|

|                        | Day  | Cum   | Day   | Cum   | Day  | Cum   |
|------------------------|------|-------|-------|-------|------|-------|
| In Well:               | 0.00 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00  |
| Recovered:             | 0.00 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00  |
| Left to Recover:       | 0.00 |       | 0.00  |       | 0.00 |       |
| Haul In:               | 0.00 | 90.00 | 0.00  | 88.00 | 0.00 | 12.00 |
| Haul Off:              | 0.00 | 0.00  | 16.50 | 82.25 | 0.00 | 0.00  |
| Non-Recov. Ann. Fluid: |      | 0.00  |       | 0.00  |      | 0.00  |

**Time and Operations Summary**

| From: | To:   | Hrs: | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                                                                                                                                         |
|-------|-------|------|--------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18:00 | 00:00 | 6.00 | EVALPR | 32    | D         | FLOW WELL ON 11.91 MM CHOKE WITH 76.20 MM ORFICE PLATE IN PLACE. FINAL FLOW RATE OF 280.908 10/3 - M/3 PER DAY WITH TUBING FLOWING PRESSURE OF 11,174 KPA. TOTAL WATER PRODUCED THROUGH OUT CLEAN UP AND TEST OF 8.89 M3. SALINITY 2.000 PPM AND PH 7. SHUT IN AND SECURE WELL AT MIDNIGHT. ( GAS SAMPLES TAKEN PRIOR TO SHUT IN WELL.) SHUT IN AND SECURE WELL HEAD. SITP IN FOUR HOURS 13,485 KPA. |
| 00:00 | 05:00 | 5.00 | RDMO   | 32    | E         | RIG OUT TEST EQUIPMENT ETC. LOAD UP AND HAUL OUT EQUIPMENT AND FLUID TO FORT ST JOHN. ( TOTAL FLUID HAULED OUT 16.5 M3 TO DISPOSAL AT INTEGRITY, AGGRESSIVE TICKET # 4382 , LEFT FORT LIARD 0900 HRS )                                                                                                                                                                                               |



|                |                                       |             |                            |               |           |
|----------------|---------------------------------------|-------------|----------------------------|---------------|-----------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             |                            | Date:         | 4/5/2004  |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             |                            | Report #:     | 13        |
| Contractor:    |                                       | Rig #:      |                            | Final Report: | Y         |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Start Date:   | 3/24/2004 |
| Phone #:       |                                       | Licence:    | 1964                       |               |           |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |               |           |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |           |

| From: | To: | Hrs: | Phase: | Code: | Sub<br>Code: | Description: |
|-------|-----|------|--------|-------|--------------|--------------|
|       |     |      |        |       |              |              |

Anadarko Canada Corporation

**Daily Completion Workover Report**

Page 1 of 2

|                                                      |                                   |                        |
|------------------------------------------------------|-----------------------------------|------------------------|
| Well Name: ANADARKO EMILE LAKE A-77                  |                                   | Date: 21/05/2004       |
| Well Location: 300/A- 77 Lat: 60° 46' Long: 122° 43' |                                   | Report #: 14           |
| Contractor: RAPID WIRELINE                           | Rig #: DAVID SALAHUB 403-231-0577 | Final Report: Y        |
| Supervisor: JOE GRAVES 250-261-4889                  | Engineer: 1964                    | Start Date: 24/03/2004 |
| Phone #:                                             | Licence: 1964                     |                        |
| Event Type: ORIG COMPLETION                          | Objective: EXPLORATORY COMPLETION |                        |
| AFE Number: 402979                                   | Objective2: COMPLETION - GAS      |                        |

| COSTS              | WELL             | SURFACE        |
|--------------------|------------------|----------------|
| Daily Cost: 47,997 | PBD: (m)         | KB: 630.82 (m) |
| Cum Cost: 747,787  | TD: 1,968.00 (m) | CF: 624.27 (m) |
| AFE Cost: 0.00     | H2S: 0.0370 (%)  | GL: 624.72 (m) |

**JOB**

Status: MIRU WIRELINE UNIT.

Comments: MIRU WIRELINE UNIT. PERFORM STATIC PRESSURE GRADIENT TEST.

| HOURS                    | ZONE Interval: | Zone: | Pool: |
|--------------------------|----------------|-------|-------|
| Daily Hours: 12.50       |                |       |       |
| Cum. Hours: 297.50       |                |       |       |
| Man Hours Worked: (t-km) |                |       |       |

| WELL EQUIPMENT             | REPORTS                | SAFETY                                          |
|----------------------------|------------------------|-------------------------------------------------|
| Casing Size: 177.8 (mm)    | Packer: PACKER         | Log: F Perf: F Last Safety Meeting: 04/05/2004  |
| Casing Depth: 1,968.00 (m) | Set @: 1,982.25 (m)    | Flow: F Stim: F Last BOP Drill:                 |
| Liner Size: 114.3 (mm)     | Tubing Size: 73.0 (mm) | Cement: F Swab: F Last PCP Rig Inspection: NONE |
| Liner Depth: 1,864.81 (m)  | Tubing Depth: (m)      |                                                 |

| FLUIDS(m3)             | OIL        | WATER      | OTHER      |
|------------------------|------------|------------|------------|
|                        | Day Cum    | Day Cum    | Day Cum    |
| In Well:               | 0.00 0.00  | 0.00 0.00  | 0.00 0.00  |
| Recovered:             | 0.00 0.00  | 0.00 0.00  | 0.00 0.00  |
| Left to Recover:       | 0.00       | 0.00       | 0.00       |
| Haul In:               | 0.00 90.00 | 0.00 88.00 | 0.00 12.00 |
| Haul Off:              | 0.00 0.00  | 0.00 82.25 | 0.00 0.00  |
| Non-Recov. Ann. Fluid: | 0.00       | 0.00       | 0.00       |

**Time and Operations Summary**

| From: | To:   | Hrs:  | Phase: | Code: | Sub Code: | Description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|-------|-------|--------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 07:00 | 19:30 | 12.50 |        |       |           | DRIVE FROM FORT LIARD TO KM 91 ON SIMPSON HIGHWAY. HAUL IN RAPID WIRE LINE C/W CAMERON WELLHEAD SKID UNITS. RIG IN RAPID WIRE LINE. SITP 14,113 KPA SICP 4,648 KPA. PULL RECORDERS FROM 1.81" "R" NIPPLE AT 1977.5 MCF AND DOWNLOAD. PULL DART FROM "R" NIPPLE. RUN STATIC GRADIENT W/5 MINUTE STOPS AT SURFACE,500,1000,1500,1900,19371967 & 1997.4 MCF. RUN AND SET 1.87" FSG PLUG IN "F" PROFILE AT 1973 MCF. BLEED DOWN TUBING TO ZERO. SET COLLAR STOP AT 47 MCF. SET 2.5" G-PACKOFF ON COLLAR STOP. SET 2.5" SLIP STOP ON TOP OF G-PACKOFF. RIG OUT WIRE LINE. RIG IN CAMERON AND SET BACK PRESSURE VALVE IN DOG NUT. CHAIN AND LOCK WELLHEAD. FLY OUT EQUIPMENT TO SIMPSON HIGHWAY. RETURN TO FORT LIARD. |



|                |                                       |             |                            |               |            |
|----------------|---------------------------------------|-------------|----------------------------|---------------|------------|
| Well Name:     | ANADARKO EMILE LAKE A-77              |             |                            | Date:         | 21/05/2004 |
| Well Location: | 300/A- 77 Lat: 60° 46' Long: 122° 43' |             |                            | Report #:     | 14         |
| Contractor:    | RAPID WIRELINE                        | Rig #:      |                            | Final Report: | Y          |
| Supervisor:    | JOE GRAVES 250-261-4889               | Engineer:   | DAVID SALAHUB 403-231-0577 | Start Date:   | 24/03/2004 |
| Phone #:       |                                       | Licence:    | 1964                       |               |            |
| Event Type:    | ORIG COMPLETION                       | Objective:  | EXPLORATORY COMPLETION     |               |            |
| AFE Number:    | 402979                                | Objective2: | COMPLETION - GAS           |               |            |

| From: | To:   | Hrs:  | Phase: | Code: | Sub Code: | Description: |
|-------|-------|-------|--------|-------|-----------|--------------|
| 07:00 | 19:30 | 12.50 |        |       |           | 1930 HOURS.  |

## Deviation Summary

Legal Well Name: ANADARKO EMILE LAKE A-77  
 Common Well Name: ANADARKO EMILE LAKE A-77  
 Event Name: ORIG DRILLING  
 Contractor Name: AKITA DRILLING  
 Rig Name: AKITA DRILLING  
 TMD: 2,265.30 (m) TVD: 2,260.81 (m)  
 Spud Date: 3/2/2004  
 Start: 2/20/2004  
 End: 3/21/2004  
 Rig Release: 3/21/2004  
 Rig Number: 37  
 Calculation Method: Minimum Curvature

S/T #

V.S. AZI (°)

OH

285.40

| S/T # | TMD<br>(m) | Angle<br>(°) | Azimuth<br>(°) | CTM | TVD<br>(m) | N-S<br>(m) | E-W<br>(m) | Section<br>(m) | DLS<br>(°/30m) | BUR<br>(°/30m) | Type |
|-------|------------|--------------|----------------|-----|------------|------------|------------|----------------|----------------|----------------|------|
| OH    | 0.00       | 0.000        | 0.000          | NY  | 0.00       | 0.00       | 0.00       | 0.00           | 0.00           | 0.00           |      |
| OH    | 70.00      | 0.420        | 171.410        | Y   | 70.00      | -0.25      | 0.04       | -0.10          | 0.18           | 0.18           |      |
| OH    | 100.00     | 0.600        | 208.540        | Y   | 100.00     | -0.50      | -0.02      | -0.11          | 0.37           | 0.18           |      |
| OH    | 130.00     | 0.420        | 200.270        | Y   | 130.00     | -0.74      | -0.13      | -0.07          | 0.19           | -0.18          |      |
| OH    | 160.00     | 0.630        | 232.810        | Y   | 160.00     | -0.94      | -0.30      | 0.04           | 0.36           | 0.21           |      |
| OH    | 190.00     | 0.460        | 250.090        | Y   | 189.99     | -1.09      | -0.55      | 0.24           | 0.23           | -0.17          |      |
| OH    | 220.00     | 0.380        | 244.430        | Y   | 219.99     | -1.17      | -0.75      | 0.41           | 0.09           | -0.08          |      |
| OH    | 250.00     | 0.480        | 258.730        | Y   | 249.99     | -1.24      | -0.96      | 0.60           | 0.15           | 0.10           |      |
| OH    | 280.00     | 0.430        | 236.590        | Y   | 279.99     | -1.32      | -1.18      | 0.79           | 0.18           | -0.05          |      |
| OH    | 310.00     | 0.720        | 229.910        | Y   | 309.99     | -1.51      | -1.42      | 0.97           | 0.30           | 0.29           |      |
| OH    | 340.00     | 0.540        | 241.230        | Y   | 339.99     | -1.70      | -1.69      | 1.18           | 0.22           | -0.18          |      |
| OH    | 370.00     | 0.690        | 257.400        | Y   | 369.99     | -1.80      | -1.99      | 1.44           | 0.23           | 0.15           |      |
| OH    | 400.00     | 0.960        | 244.760        | Y   | 399.98     | -1.95      | -2.39      | 1.79           | 0.32           | 0.27           |      |
| OH    | 430.00     | 0.710        | 249.330        | Y   | 429.98     | -2.12      | -2.79      | 2.13           | 0.26           | -0.25          |      |
| OH    | 460.00     | 0.720        | 250.580        | Y   | 459.98     | -2.25      | -3.14      | 2.43           | 0.02           | 0.01           |      |
| OH    | 490.00     | 1.020        | 250.360        | Y   | 489.97     | -2.40      | -3.57      | 2.81           | 0.30           | 0.30           |      |
| OH    | 520.00     | 0.920        | 259.900        | Y   | 519.97     | -2.54      | -4.06      | 3.24           | 0.19           | -0.10          |      |
| OH    | 550.00     | 0.940        | 262.330        | Y   | 549.97     | -2.61      | -4.54      | 3.69           | 0.04           | 0.02           |      |
| OH    | 580.00     | 0.760        | 252.430        | Y   | 579.96     | -2.70      | -4.98      | 4.08           | 0.23           | -0.18          |      |
| OH    | 610.00     | 0.930        | 266.870        | Y   | 609.96     | -2.78      | -5.41      | 4.48           | 0.27           | 0.17           |      |
| OH    | 640.00     | 1.060        | 263.070        | Y   | 639.96     | -2.82      | -5.93      | 4.96           | 0.15           | 0.13           |      |
| OH    | 670.00     | 0.860        | 261.920        | Y   | 669.95     | -2.89      | -6.43      | 5.43           | 0.20           | -0.20          |      |
| OH    | 700.00     | 0.780        | 271.530        | Y   | 699.95     | -2.91      | -6.85      | 5.83           | 0.16           | -0.08          |      |
| OH    | 730.00     | 0.560        | 293.000        | Y   | 729.95     | -2.85      | -7.19      | 6.18           | 0.33           | -0.22          |      |
| OH    | 760.00     | 0.580        | 300.060        | Y   | 759.94     | -2.72      | -7.46      | 6.47           | 0.07           | 0.02           |      |
| OH    | 790.00     | 0.790        | 298.560        | Y   | 789.94     | -2.54      | -7.77      | 6.82           | 0.21           | 0.21           |      |
| OH    | 820.00     | 0.860        | 311.460        | Y   | 819.94     | -2.30      | -8.12      | 7.22           | 0.20           | 0.07           |      |
| OH    | 850.00     | 0.770        | 312.190        | Y   | 849.94     | -2.01      | -8.44      | 7.60           | 0.09           | -0.09          |      |



## Deviation Summary

Legal Well Name: ANADARKO EMILE LAKE A-77  
 Common Well Name: ANADARKO EMILE LAKE A-77  
 Event Name: ORIG DRILLING  
 Contractor Name: AKITA DRILLING  
 Rig Name: AKITA DRILLING  
 TMD: 2,265.30 (m) TVD: 2,260.81 (m)

Spud Date: 3/2/2004  
 Start: 2/20/2004  
 End: 3/21/2004  
 Rig Release: 3/21/2004  
 Rig Number: 37  
 Calculation Method: Minimum Curvature

S/T # V.S. AZI (°)  
 OH 285.40

| S/T # | TMD<br>(m) | Angle<br>(°) | Azimuth<br>(°) | CTM | TVD<br>(m) | N-S<br>(m) | E-W<br>(m) | Section<br>(m) | DLS<br>(°/30m) | BUR<br>(°/30m) | Type |
|-------|------------|--------------|----------------|-----|------------|------------|------------|----------------|----------------|----------------|------|
| OH    | 880.00     | 0.810        | 316.830        | Y   | 879.93     | -1.72      | -8.73      | 7.96           | 0.08           | 0.04           |      |
| OH    | 910.00     | 0.960        | 318.500        | Y   | 909.93     | -1.38      | -9.05      | 8.36           | 0.15           | 0.15           |      |
| OH    | 940.00     | 1.100        | 323.060        | Y   | 939.93     | -0.96      | -9.39      | 8.79           | 0.16           | 0.14           |      |
| OH    | 970.00     | 1.190        | 328.010        | Y   | 969.92     | -0.47      | -9.72      | 9.25           | 0.13           | 0.09           |      |
| OH    | 1,000.00   | 1.380        | 322.010        | Y   | 999.91     | 0.08       | -10.11     | 9.77           | 0.23           | 0.19           |      |
| OH    | 1,030.00   | 1.240        | 329.130        | Y   | 1,029.90   | 0.65       | -10.50     | 10.29          | 0.21           | -0.14          |      |
| OH    | 1,060.00   | 1.330        | 333.380        | Y   | 1,059.90   | 1.24       | -10.82     | 10.76          | 0.13           | 0.09           |      |
| OH    | 1,090.00   | 1.770        | 337.590        | Y   | 1,089.89   | 1.98       | -11.16     | 11.28          | 0.45           | 0.44           |      |
| OH    | 1,120.00   | 1.960        | 333.410        | Y   | 1,119.87   | 2.86       | -11.56     | 11.91          | 0.23           | 0.19           |      |
| OH    | 1,150.00   | 2.000        | 331.820        | Y   | 1,149.85   | 3.78       | -12.04     | 12.61          | 0.07           | 0.04           |      |
| OH    | 1,180.00   | 1.780        | 328.660        | Y   | 1,179.83   | 4.64       | -12.53     | 13.31          | 0.24           | -0.22          |      |
| OH    | 1,210.00   | 1.580        | 325.200        | Y   | 1,209.82   | 5.38       | -13.01     | 13.97          | 0.22           | -0.20          |      |
| OH    | 1,240.00   | 1.580        | 323.130        | Y   | 1,239.81   | 6.05       | -13.49     | 14.61          | 0.06           | 0.00           |      |
| OH    | 1,270.00   | 1.510        | 321.010        | Y   | 1,269.80   | 6.69       | -13.99     | 15.26          | 0.09           | -0.07          |      |
| OH    | 1,300.00   | 1.350        | 317.220        | Y   | 1,299.79   | 7.26       | -14.48     | 15.88          | 0.19           | -0.16          |      |
| OH    | 1,330.00   | 1.360        | 311.960        | Y   | 1,329.78   | 7.75       | -14.98     | 16.50          | 0.12           | 0.01           |      |
| OH    | 1,360.00   | 1.390        | 304.630        | Y   | 1,359.77   | 8.20       | -15.54     | 17.16          | 0.18           | 0.03           |      |
| OH    | 1,390.00   | 1.560        | 296.370        | Y   | 1,389.76   | 8.59       | -16.21     | 17.91          | 0.27           | 0.17           |      |
| OH    | 1,420.00   | 0.680        | 263.570        | Y   | 1,419.76   | 8.75       | -16.75     | 18.47          | 1.05           | -0.88          |      |
| OH    | 1,450.00   | 0.680        | 204.110        | Y   | 1,449.76   | 8.56       | -17.00     | 18.67          | 0.67           | 0.00           |      |
| OH    | 1,480.00   | 1.020        | 168.410        | Y   | 1,479.75   | 8.14       | -17.02     | 18.57          | 0.61           | 0.34           |      |
| OH    | 1,510.00   | 1.670        | 161.070        | Y   | 1,509.74   | 7.47       | -16.83     | 18.20          | 0.67           | 0.65           |      |
| OH    | 1,540.00   | 2.370        | 156.610        | Y   | 1,539.73   | 6.48       | -16.44     | 17.57          | 0.72           | 0.70           |      |
| OH    | 1,570.00   | 1.090        | 154.540        | Y   | 1,569.71   | 5.66       | -16.07     | 16.99          | 1.28           | -1.28          |      |
| OH    | 1,600.00   | 0.110        | 338.850        | Y   | 1,599.71   | 5.43       | -15.96     | 16.82          | 1.20           | -0.98          |      |
| OH    | 1,630.00   | 0.950        | 297.080        | Y   | 1,629.71   | 5.57       | -16.19     | 17.09          | 0.87           | 0.84           |      |
| OH    | 1,660.00   | 1.170        | 297.730        | Y   | 1,659.70   | 5.82       | -16.68     | 17.63          | 0.22           | 0.22           |      |
| OH    | 1,690.00   | 0.720        | 270.280        | Y   | 1,689.70   | 5.96       | -17.14     | 18.11          | 0.63           | -0.45          |      |



## Deviation Summary

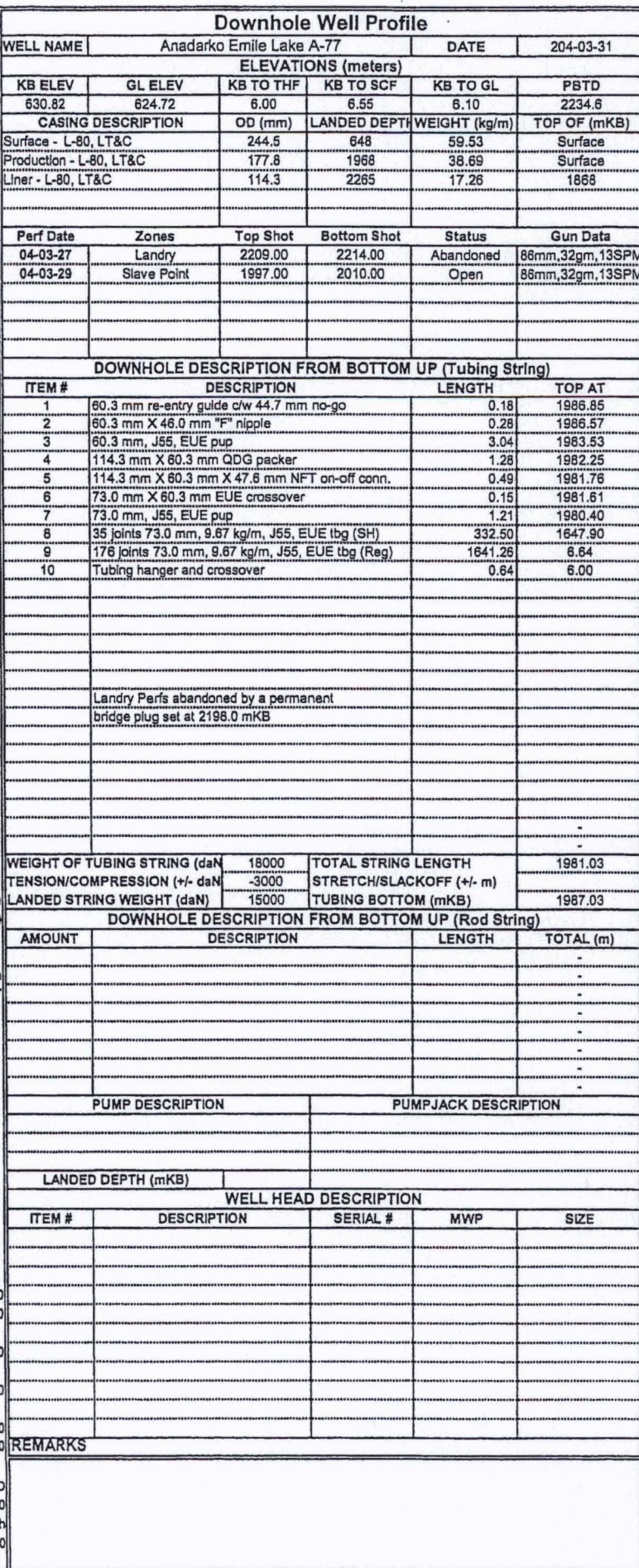
Legal Well Name: ANADARKO EMILE LAKE A-77  
 Common Well Name: ANADARKO EMILE LAKE A-77  
 Event Name: ORIG DRILLING  
 Contractor Name: AKITA DRILLING  
 Rig Name: AKITA DRILLING  
 TMD: 2,265.30 (m) TVD: 2,260.81 (m)

Spud Date: 3/2/2004  
 Start: 2/20/2004  
 End: 3/21/2004  
 Rig Release: 3/21/2004  
 Rig Number: 37  
 Calculation Method: Minimum Curvature

S/T # V.S. AZI (°)  
 OH 285.40

| S/T # | TMD<br>(m) | Angle<br>(°) | Azimuth<br>(°) | CTM | TVD<br>(m) | N-S<br>(m) | E-W<br>(m) | Section<br>(m) | DLS<br>(°/30m) | BUR<br>(°/30m) | Type |
|-------|------------|--------------|----------------|-----|------------|------------|------------|----------------|----------------|----------------|------|
| OH    | 1,720.00   | 0.650        | 169.170        | Y   | 1,719.70   | 5.80       | -17.30     | 18.22          | 1.06           | -0.07          |      |
| OH    | 1,750.00   | 0.920        | 70.260         | Y   | 1,749.70   | 5.71       | -17.04     | 17.94          | 1.21           | 0.27           |      |
| OH    | 1,780.00   | 1.060        | 173.370        | Y   | 1,779.69   | 5.52       | -16.78     | 17.64          | 1.55           | 0.14           |      |
| OH    | 1,810.00   | 0.590        | 315.950        | Y   | 1,809.69   | 5.35       | -16.86     | 17.67          | 1.57           | -0.47          |      |
| OH    | 1,840.00   | 0.900        | 215.080        | Y   | 1,839.69   | 5.27       | -17.10     | 17.88          | 1.17           | 0.31           |      |
| OH    | 1,870.00   | 1.090        | 302.090        | Y   | 1,869.69   | 5.23       | -17.48     | 18.24          | 1.38           | 0.19           |      |
| OH    | 1,900.00   | 0.860        | 185.190        | Y   | 1,899.68   | 5.16       | -17.74     | 18.47          | 1.67           | -0.23          |      |
| OH    | 1,930.00   | 0.400        | 173.840        | Y   | 1,929.68   | 4.83       | -17.75     | 18.39          | 0.47           | -0.46          |      |
| OH    | 1,960.00   | 0.770        | 332.760        | Y   | 1,959.68   | 4.90       | -17.83     | 18.49          | 1.15           | 0.37           |      |
| OH    | 1,990.75   | 1.400        | 268.100        | Y   | 1,990.43   | 5.08       | -18.30     | 18.99          | 1.25           | 0.61           |      |
| OH    | 2,019.27   | 2.900        | 244.100        | Y   | 2,018.93   | 4.75       | -19.29     | 19.86          | 1.81           | 1.58           |      |
| OH    | 2,047.55   | 3.900        | 229.700        | Y   | 2,047.16   | 3.81       | -20.67     | 20.94          | 1.39           | 1.06           |      |
| OH    | 2,076.45   | 6.400        | 214.400        | Y   | 2,075.94   | 1.85       | -22.33     | 22.02          | 2.94           | 2.60           |      |
| OH    | 2,105.35   | 8.600        | 205.600        | Y   | 2,104.59   | -1.43      | -24.18     | 22.93          | 2.57           | 2.28           |      |
| OH    | 2,134.48   | 10.600       | 201.700        | Y   | 2,133.31   | -5.88      | -26.11     | 23.61          | 2.16           | 2.06           |      |
| OH    | 2,163.38   | 12.200       | 198.700        | Y   | 2,161.64   | -11.25     | -28.07     | 24.08          | 1.77           | 1.66           |      |
| OH    | 2,192.30   | 13.000       | 196.100        | Y   | 2,189.87   | -17.27     | -29.95     | 24.29          | 1.02           | 0.83           |      |
| OH    | 2,220.57   | 13.300       | 193.600        | Y   | 2,217.39   | -23.48     | -31.60     | 24.23          | 0.68           | 0.32           |      |
| OH    | 2,250.30   | 14.200       | 194.600        | Y   | 2,246.27   | -30.33     | -33.32     | 24.07          | 0.94           | 0.91           |      |
| OH    | 2,265.30   | 14.200       | 194.600        | Y   | 2,260.81   | -33.89     | -34.25     | 24.02          | 0.00           | 0.00           |      |





## Wellbore Equipment Report

Legal Well Name: ANADARKO EMILE LAKE A-77  
Common Well Name: ANADARKO EMILE LAKE A-77  
Event Name: ORIG COMPLETION

Report #: 1  
Start: 24/03/2004

Spud Date: 02/03/2004  
Report Date: 29/03/2004  
End: 05/04/2004

Assembly Name: BRIDGE PLUG  
Suspended From: SURFACE EQUIPMENT @ 2,190.00 (m)  
TMD Correction: (m)  
Landed TMD: 2,198.80 (m)

Install Date: 29/03/2004  
Pull Date:  
Final String Weight: (daN)  
Landed Weight: (daN)

| Dom. Size<br>(mm) | Component   | Description                          | # Jts | I.D.<br>(mm) | O.D.<br>(mm) | Weight<br>(kg/m) | Grade | Length<br>(m) | Top Set<br>(m) | Manufacturer | Model # | Connection | Comments |
|-------------------|-------------|--------------------------------------|-------|--------------|--------------|------------------|-------|---------------|----------------|--------------|---------|------------|----------|
| 101.60            |             | 8.0 M LINEAR METERS OF CEMENT ON TOP | 1     |              | 114.30       |                  |       | 8.00          | 2,190.00       |              |         |            |          |
| 101.60            | BRIDGE PLUG | PERMANENT BRIDGE PLUG AT 2198.0 MKB  | 1     |              | 114.30       |                  |       | 0.80          | 2,198.00       |              |         |            |          |



## Wellbore Equipment Report

Legal Well Name: ANADARKO EMILE LAKE A-77  
 Common Well Name: ANADARKO EMILE LAKE A-77  
 Event Name: ORIG COMPLETION

Report #: 2  
 Start: 24/03/2004

Spud Date: 02/03/2004  
 Report Date: 31/03/2004  
 End: 05/04/2004

Assembly Name: TUBING ASSEMBLY  
 Suspended From: SURFACE EQUIPMENT @ 6.00 (m)  
 TMD Correction: (m)  
 Landed TMD: 1,987.03 (m)

Install Date: 31/03/2004  
 Pull Date:  
 Final String Weight: (daN)  
 Landed Weight: (daN)

| Nom. Size<br>(mm) | Component       | Description                               | # Jts | I.D.<br>(mm) | O.D.<br>(mm) | Weight<br>(kg/m) | Grade | Length<br>(m) | Top Set<br>(m) | Manufacturer | Model # | Connection | Comments                 |
|-------------------|-----------------|-------------------------------------------|-------|--------------|--------------|------------------|-------|---------------|----------------|--------------|---------|------------|--------------------------|
| 73.03             | TUBING HANGER   | DOGNUT                                    | 1     | 62.00        | 179.40       |                  |       | 0.20          | 6.00           |              |         | EUE        |                          |
| 73.03             | CROSSOVER       | CROSSOVER                                 | 1     |              | 73.00        |                  |       | 0.44          | 6.20           |              |         |            |                          |
| 73.03             | TUBING JOINT(S) | 176 - TBG JTS X 73.0 MM X 1641.26 M - REG | 176   | 62.00        | 73.00        | 9.67             | J55   | 1,641.26      | 6.64           |              |         | EUE        |                          |
| 73.03             | TUBING JOINT(S) | 35 - TBG JTS X 73.0 MM X 332.50 M - REG   | 35    | 62.00        | 73.00        | 9.67             | J55   | 332.50        | 1,647.90       |              |         | EUE        |                          |
| 73.03             | PUP JOINT       | PUP JT 1.21 M X 73.0 MM                   | 1     | 62.00        | 73.00        | 9.67             | J55   | 1.21          | 1,980.40       |              |         | EUE        |                          |
| 73.03             | CROSSOVER       | CROSSOVER 60.3 MM X 73.0 MM               | 1     |              | 73.00        |                  |       | 0.15          | 1,981.61       |              |         |            |                          |
| 88.90             | ON-OFF TOOL     | ON-OFF TOOL NFT W/ 1.87 " F PROFILE       | 1     | 58.75        | 139.70       |                  |       | 0.49          | 1,981.76       | BAKER        |         | EUE        | 1.87 " FSG PLUG IN PLACE |
| 101.60            | PACKER          | PACKER QDG 60.3 MM X 114.3 MM             | 1     | 62.00        | 156.20       |                  |       | 1.28          | 1,982.25       | BAKER        |         | EUE        | PACKER IN 5000 DAN COMPR |
| 60.33             | PUP JOINT       | PUP JT 60.3 MM X 3.04 M                   | 1     | 48.29        | 60.33        | 6.99             | J55   | 3.04          | 1,983.53       |              |         | EUE        |                          |
| 60.33             | PROFILE NIPPLE  | NIPPLE "F" PROFILE                        | 1     | 56.01        | 60.33        |                  |       | 0.28          | 1,986.57       | BAKER        |         | EUE        |                          |
| 60.33             | RE-ENTRY GUIDE  | RE-ENTRY GUIDE 60.3 MM                    | 1     | 62.00        | 60.33        |                  |       | 0.18          | 1,986.85       |              |         | EUE        |                          |

# Perforating Report

Spud Date: 02/03/2004  
Report Date: 27/03/2004  
End: 05/04/2004

## General

Supervisor: JOE GRAVES 250-261-4  
Conveyed Method: WIRELINE

| Initial Conditions           |                                | Summary                              |                                    |             |
|------------------------------|--------------------------------|--------------------------------------|------------------------------------|-------------|
| Fluid Type: KCL WATER        | Fluid Density: 1,017.0 (kg/m³) | Gross Int.: 2,209.00 to 2,214.00 (m) | Start Date: 28/03/2004             | Time:       |
| Surf. Pressure: (kPa)        | Res. Pressure: (kPa) @ (m)     | # of Int.: 1                         | End Date: 28/03/2004               | Time:       |
| Fluid Level TVD: (m)         | Fluid Head TVD: 2,214.00 (m)   | Total Shots: 65                      | Net Shot: 5.0 (m)                  |             |
| Hydro Pressure: 22,089 (kPa) | Pressure Diff.: 22,089 (kPa)   | AV Shot Dens.: 13.00 (/m)            | Final Surface Pressure: (kPa)      |             |
| Condition: OVER BALANCED     |                                |                                      | Final Surf. Pres. Date: 28/03/2004 | Time: 08:45 |

### Remarks

## LANDRY FORMATION

## Perforated Intervals

[illegible]



## Perforating Report

Report #: 2  
Start: 24/03/2004

Spud Date: 02/03/2004  
Report Date: 29/03/2004  
End: 05/04/2004

## General

Supervisor: JOE GRAVES 250-261-4  
Conveyed Method: WIRELINE

### Initial Conditions

|                |                          |                         |            |       |       |
|----------------|--------------------------|-------------------------|------------|-------|-------|
| Gross Int.:    | 1,997.00 to 2,010.00 (m) | Start Date:             | 29/03/2004 | Time: |       |
| # of Int.:     | 1                        | End Date:               | 29/03/2004 | Time: |       |
| Total Shots:   | 169                      | Net Shot:               | 13.0 (m)   |       |       |
| AV Shot Dens.: | 13.00 (/m)               | Final Surface Pressure: | (kPa)      |       |       |
|                |                          | Final Surf. Pres. Date: | 29/03/2004 | Time: | 20:00 |

## Summary

## Perforated Intervals

[illegible]

**Final Pipe Tally Report**

Legal Well Name: ANADARKO EMILE LAKE A-77

Spud Date: 3/2/2004

Common Well Name: ANADARKO EMILE LAKE A-77

Report #: 1

Report Date: 4/6/2004

Event Name: ORIG COMPLETION

Start: 3/24/2004

End: 4/5/2004

Date Run: 4/6/2004

Proposed Setting TMD: 1,973.76 (m)

Buoyancy Factor:

Block Weight: (daN)

**Pipe Data Section**

| Joints | Item            | Size (mm)      | Manufacturer | Weight (kg/m) | Threads | Grade | Range | Thrd. Correction (m) | Displacement (m³/m) |
|--------|-----------------|----------------|--------------|---------------|---------|-------|-------|----------------------|---------------------|
|        | TUBING JOINT(S) | 73.00<br>19.05 | IPSCO        | 9.67          | EUE     | J55   |       |                      |                     |

**Pipe Information**

| Run # | Jnt # | Description | Jnt Length (m) | Cum Lgth. (m) | Ct | Run # | Jnt # | Description | Jnt Length (m) | Cum Lgth. (m) | Ct |
|-------|-------|-------------|----------------|---------------|----|-------|-------|-------------|----------------|---------------|----|
| 1     | 2     |             | 19.01          | 19.01         |    | 39    | 78    |             | 18.85          | 729.72        |    |
| 2     | 4     |             | 18.71          | 37.72         |    | 40    | 80    |             | 18.03          | 747.75        |    |
| 3     | 6     |             | 18.49          | 56.21         |    | 41    | 82    |             | 18.70          | 766.45        |    |
| 4     | 8     |             | 18.43          | 74.64         |    | 42    | 84    |             | 18.64          | 785.09        |    |
| 5     | 10    |             | 18.57          | 93.21         |    | 43    | 86    |             | 18.85          | 803.94        |    |
| 6     | 12    |             | 18.53          | 111.74        |    | 44    | 88    |             | 19.13          | 823.07        |    |
| 7     | 14    |             | 18.89          | 130.63        |    | 45    | 90    |             | 18.98          | 842.05        |    |
| 8     | 16    |             | 18.49          | 149.12        |    | 46    | 92    |             | 18.47          | 860.52        |    |
| 9     | 18    |             | 19.03          | 168.15        |    | 47    | 94    |             | 18.69          | 879.21        |    |
| 10    | 20    |             | 18.13          | 186.28        |    | 48    | 96    |             | 18.83          | 898.04        |    |
| 11    | 22    |             | 18.80          | 205.08        |    | 49    | 98    |             | 18.69          | 916.73        |    |
| 12    | 24    |             | 18.02          | 223.10        |    | 50    | 100   |             | 18.91          | 935.64        |    |
| 13    | 26    |             | 18.77          | 241.87        |    | 51    | 102   |             | 19.10          | 954.74        |    |
| 14    | 28    |             | 19.14          | 261.01        |    | 52    | 104   |             | 18.96          | 973.70        |    |
| 15    | 30    |             | 18.88          | 279.89        |    | 53    | 106   |             | 18.76          | 992.46        |    |
| 16    | 32    |             | 19.04          | 298.93        |    | 54    | 108   |             | 18.71          | 1,011.17      |    |
| 17    | 34    |             | 18.87          | 317.80        |    | 55    | 110   |             | 18.99          | 1,030.16      |    |
| 18    | 36    |             | 18.70          | 336.50        |    | 56    | 112   |             | 18.78          | 1,048.94      |    |
| 19    | 38    |             | 18.74          | 355.24        |    | 57    | 114   |             | 18.54          | 1,067.48      |    |
| 20    | 40    |             | 18.30          | 373.54        |    | 58    | 116   |             | 17.86          | 1,085.34      |    |
| 21    | 42    |             | 18.99          | 392.53        |    | 59    | 118   |             | 18.82          | 1,104.16      |    |
| 22    | 44    |             | 18.96          | 411.49        |    | 60    | 120   |             | 18.61          | 1,122.77      |    |
| 23    | 46    |             | 18.70          | 430.19        |    | 61    | 122   |             | 18.92          | 1,141.69      |    |
| 24    | 48    |             | 18.33          | 448.52        |    | 62    | 124   |             | 18.82          | 1,160.51      |    |
| 25    | 50    |             | 18.98          | 467.50        |    | 63    | 126   |             | 18.79          | 1,179.30      |    |
| 26    | 52    |             | 18.94          | 486.44        |    | 64    | 128   |             | 18.38          | 1,197.68      |    |
| 27    | 54    |             | 18.82          | 505.26        |    | 65    | 130   |             | 19.14          | 1,216.82      |    |
| 28    | 56    |             | 18.46          | 523.72        |    | 66    | 132   |             | 18.94          | 1,235.76      |    |
| 29    | 58    |             | 19.13          | 542.85        |    | 67    | 134   |             | 19.14          | 1,254.90      |    |
| 30    | 60    |             | 18.69          | 561.54        |    | 68    | 136   |             | 19.05          | 1,273.95      |    |
| 31    | 62    |             | 18.49          | 580.03        |    | 69    | 138   |             | 18.31          | 1,292.26      |    |
| 32    | 64    |             | 18.33          | 598.36        |    | 70    | 140   |             | 18.31          | 1,310.57      |    |
| 33    | 66    |             | 18.50          | 616.86        |    | 71    | 142   |             | 18.89          | 1,329.46      |    |
| 34    | 68    |             | 18.60          | 635.46        |    | 72    | 144   |             | 18.84          | 1,348.30      |    |
| 35    | 70    |             | 18.23          | 653.69        |    | 73    | 146   |             | 18.14          | 1,366.44      |    |
| 36    | 72    |             | 19.51          | 673.20        |    | 74    | 148   |             | 18.84          | 1,385.28      |    |
| 37    | 74    |             | 19.07          | 692.27        |    | 75    | 150   |             | 18.51          | 1,403.79      |    |
| 38    | 76    |             | 18.60          | 710.87        |    | 76    | 152   |             | 19.07          | 1,422.86      |    |



**Final Pipe Tally Report**

Legal Well Name: ANADARKO EMILE LAKE A-77

Spud Date: 3/2/2004

Common Well Name: ANADARKO EMILE LAKE A-77

Report #: 1

Report Date: 4/6/2004

Event Name: ORIG COMPLETION

Start: 3/24/2004

End: 4/5/2004

**Pipe Information**

| Run # | Jnt # | Description | Jnt Length (m) | Cum Lgth. (m) | Ct | Run # | Jnt # | Description | Jnt Length (m) | Cum Lgth. (m) | Ct |
|-------|-------|-------------|----------------|---------------|----|-------|-------|-------------|----------------|---------------|----|
| 77    | 154   |             | 18.37          | 1,441.23      |    | 93    | 186   |             | 18.42          | 1,740.51      |    |
| 78    | 156   |             | 18.88          | 1,460.11      |    | 94    | 188   |             | 18.73          | 1,759.24      |    |
| 79    | 158   |             | 18.56          | 1,478.67      |    | 95    | 190   |             | 18.76          | 1,778.00      |    |
| 80    | 160   |             | 18.93          | 1,497.60      |    | 96    | 192   |             | 18.22          | 1,796.22      |    |
| 81    | 162   |             | 18.50          | 1,516.10      |    | 97    | 194   |             | 18.91          | 1,815.13      |    |
| 82    | 164   |             | 19.18          | 1,535.28      |    | 98    | 196   |             | 19.07          | 1,834.20      |    |
| 83    | 166   |             | 19.19          | 1,554.47      |    | 99    | 198   |             | 19.15          | 1,853.35      |    |
| 84    | 168   |             | 18.44          | 1,572.91      |    | 100   | 200   |             | 18.22          | 1,871.57      |    |
| 85    | 170   |             | 18.61          | 1,591.52      |    | 101   | 202   |             | 18.22          | 1,889.79      |    |
| 86    | 172   |             | 18.34          | 1,609.86      |    | 102   | 204   |             | 19.06          | 1,908.85      |    |
| 87    | 174   |             | 18.64          | 1,628.50      |    | 103   | 206   |             | 18.26          | 1,927.11      |    |
| 88    | 176   |             | 18.90          | 1,647.40      |    | 104   | 208   |             | 18.94          | 1,946.05      |    |
| 89    | 178   |             | 18.78          | 1,666.18      |    | 105   | 210   |             | 18.15          | 1,964.20      |    |
| 90    | 180   |             | 18.94          | 1,685.12      |    | 106   | 211   |             | 9.56           | 1,973.76      |    |
| 91    | 182   |             | 18.30          | 1,703.42      |    | 107   |       |             |                | 1,973.76      |    |
| 92    | 184   |             | 18.67          | 1,722.09      |    |       |       |             |                |               |    |

**Remarks**

TOTAL OF 241 JOINTS OF 73 MM EUE TUBING DELIVERED TO LEASE. 211 JOINTS OF 73 MM EUE TUBING DOWN HOLE AND 30 JOINTS RETURNED TO PREMIUM'S YARD IN FORT ST JOHN.



# **Anadarko Canada Corp.**

Anadarko Arrowhead

**A-77**

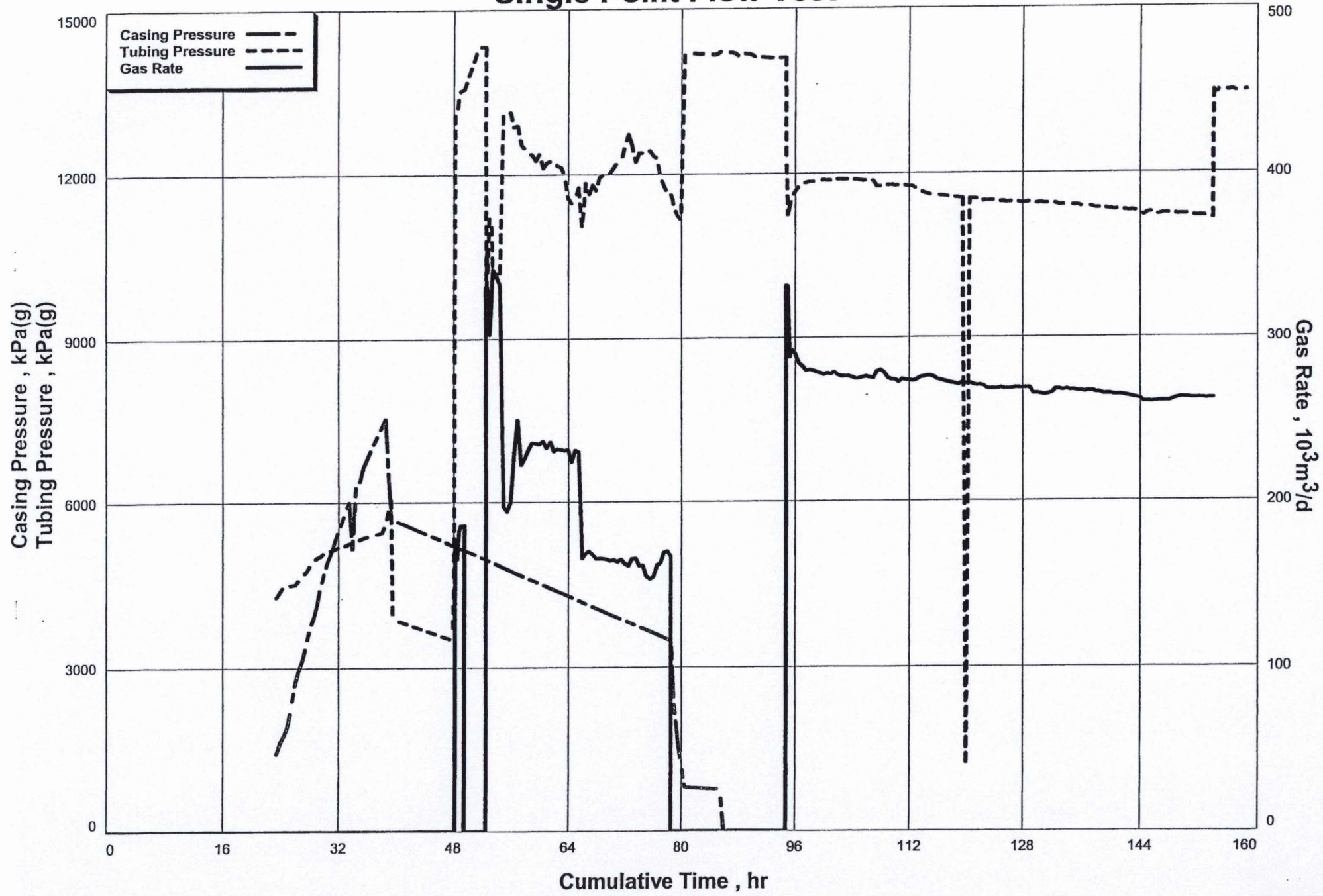
Single Point Flow Test

Slave Point Formation

March 29 – April 05, 2004



# Single Point Flow Test



|           | Clock      | Cum      | Choke  | Tbg                                                            | Csg    | Tbg  | Orifice | Static | Diff | Mtr | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |      |          |     |
|-----------|------------|----------|--------|----------------------------------------------------------------|--------|------|---------|--------|------|-----|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|------|----------|-----|
| Date      | Time       | Time     | : Size | Pres                                                           | Pres   | Tmp  | Plate   | Pres   | Pres | Tmp | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH   | Salinity | H2S |
| yyyy/mm/d | hh:mm:ss   | hr       | mm     | kPa(g)                                                         | kPa(g) | °C   | mm      | kPa(g) | kPa  | °C  | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> | ppm  | ppm      |     |
| 1         | 2004/03/29 | 14:00:00 | 0.000  |                                                                |        |      |         | 0.00   | 0    | 0.0 | 0                                 | 0.000                          | 0.000          | 0.00 | 0.0            | 0.00           | 0.00 |          |     |
| 2         |            | 14:00:00 | 0.000  | PERFORATE THE SLAVE POINT FORMATION. PERFS @ 1997mKB - 2010mKB |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 3         |            | 19:30:00 | 5.500  | RUN IN HOLE WITH SELECTIVE ACID TOOLS                          |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 4         |            | 22:00:00 | 8.000  | RIG UP FOR ACID SQUEEZE                                        |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 5         |            | 23:25:00 | 9.417  | HOLD SAFETY MEETING                                            |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 6         |            | 23:40:00 | 9.667  | PRESSURE TEST SURFACE LINES                                    |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 7         |            | 23:55:00 | 9.917  | BREAK CIRCULATION                                              |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 8         | 2004/03/30 | 00:00:00 | 10.000 | WASH & START TO SQUEEZE ACID                                   |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 9         |            | 02:00:00 | 12.000 | BACK WASH. WELL FLOWING                                        |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 10        |            | 03:00:00 | 13.000 | CIRUCLATE TO KILL WELL                                         |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 11        |            | 04:00:00 | 14.000 | WAIT ON KILL FLUID                                             |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 12        |            | 10:10:00 | 20.167 | TUBING = VACUUM. CASING = VACUUM                               |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 13        |            | 10:10:00 | 20.167 | START TO PULL OUT OF HOLE                                      |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 14        |            | 10:25:00 | 20.417 | WELL KICKING. SHUT IN                                          |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 15        |            | 11:00:00 | 21.000 | ATTEMPT TO KILL WELL                                           |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 16        |            | 13:30:00 | 23.500 | RECORD BUILD UP                                                |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 17        |            | 13:30:00 | 23.500 |                                                                | 4300   | 1450 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 18        |            | 14:00:00 | 24.000 |                                                                | 4400   | 1650 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 19        |            | 14:30:00 | 24.500 |                                                                | 4500   | 1780 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 20        |            | 14:30:00 | 24.500 | PUMP DOWN TUBING. WAIT ON KILL FLUID                           |        |      |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 21        |            | 15:00:00 | 25.000 |                                                                |        | 1950 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 22        |            | 15:30:00 | 25.500 |                                                                |        | 2300 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 23        |            | 16:00:00 | 26.000 |                                                                | 4520   | 2695 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 24        |            | 16:30:00 | 26.500 |                                                                | 4600   | 2950 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 25        |            | 17:00:00 | 27.000 |                                                                | 4675   | 3135 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 26        |            | 17:30:00 | 27.500 |                                                                | 4750   | 3414 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 27        |            | 18:00:00 | 28.000 |                                                                | 4850   | 3700 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 28        |            | 18:30:00 | 28.500 |                                                                | 4925   | 3900 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |
| 29        |            | 19:00:00 | 29.000 |                                                                | 4990   | 4157 |         |        |      |     |                                   |                                |                |      |                |                |      |          |     |



|    |            | Clock    | Cum    | Choke                                                                            | Tbg    | Csg    | Tbg | Orifice | Static | Diff | Mtr | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |    |          |     |  |  |  |
|----|------------|----------|--------|----------------------------------------------------------------------------------|--------|--------|-----|---------|--------|------|-----|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|----|----------|-----|--|--|--|
|    | Date       | Time     | Time   | : Size                                                                           | Pres   | Pres   | Tmp | Plate   | Pres   | Pres | Tmp | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH | Salinity | H2S |  |  |  |
|    | yyyy/mm/d  | hh:mm:ss | hr     | mm                                                                               | kPa(g) | kPa(g) | °C  | mm      | kPa(g) | kPa  | °C  | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> |    | ppm      | ppm |  |  |  |
| 30 | 2004/03/30 | 19:30:00 | 29.500 |                                                                                  | 5020   | 4460   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 31 |            | 20:00:00 | 30.000 |                                                                                  | 5075   | 4710   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 32 |            | 20:30:00 | 30.500 |                                                                                  | 5100   | 4932   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 33 |            | 21:00:00 | 31.000 |                                                                                  | 5125   | 5080   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 34 |            | 21:30:00 | 31.500 |                                                                                  | 5150   | 5285   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 35 |            | 22:00:00 | 32.000 |                                                                                  | 5190   | 5469   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 36 |            | 22:30:00 | 32.500 |                                                                                  | 5200   | 5649   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 37 |            | 23:00:00 | 33.000 |                                                                                  | 5220   | 5827   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 38 |            | 23:30:00 | 33.500 |                                                                                  | 5250   | 6000   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 39 | 2004/03/31 | 00:00:00 | 34.000 |                                                                                  | 5275   | 5156   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 40 |            | 00:30:00 | 34.500 |                                                                                  | 5300   | 6338   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 41 |            | 01:00:00 | 35.000 |                                                                                  | 5325   | 6386   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 42 |            | 01:30:00 | 35.500 |                                                                                  | 5350   | 6644   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 43 |            | 02:00:00 | 36.000 |                                                                                  | 5375   | 6800   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 44 |            | 02:30:00 | 36.500 |                                                                                  | 5390   | 6960   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 45 |            | 03:00:00 | 37.000 |                                                                                  | 5400   | 7100   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 46 |            | 03:30:00 | 37.500 |                                                                                  | 5425   | 7250   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 47 |            | 04:00:00 | 38.000 |                                                                                  | 5450   | 7395   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 48 |            | 04:30:00 | 38.500 |                                                                                  | 5590   | 7549   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 49 |            | 04:30:00 | 38.500 | PRESSURE UP TO MANIFOLD & OPEN WELL TO BLEED DOWN CASING SLOWLY                  |        |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 50 |            | 05:15:00 | 39.250 |                                                                                  | 6050   | 5700   |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 51 |            | 05:15:00 | 39.250 | FLUID TO SURFACE. SHUT IN & RIG UP TO TUBING & BLEED DOWN TUBING PRESSURE SLOWLY |        |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 52 |            | 05:30:00 | 39.500 |                                                                                  | 3892   |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 53 |            | 05:30:00 | 39.500 | FLUID TO SURFACE. SHUT IN WELL. PUMP 6.00m³ DOWN TUBING                          |        |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 54 |            | 05:45:00 | 39.750 | TUBING ON VACUUM. PUMP DOWN CASING                                               |        |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 55 |            | 06:25:00 | 40.417 | CASING ON VACUUM. COMMENCE PULLING OUT OF HOLE                                   |        |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 56 |            | 08:00:00 | 42.000 | START BACK IN HOLE                                                               |        |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 57 |            | 11:00:00 | 45.000 | SET PACKER. LAND DOGNUT                                                          |        |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |
| 58 |            | 11:30:00 | 45.500 | RIG OFF BOP'S & INSTALL WELL HEAD                                                |        |        |     |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |  |



[illegible]



## FieldNotes

## Field Measurements

|           | Clock      | Cum      | Choke  | Tbg                                                                         | Csg    | Tbg | Orifice | Static | Diff | Mtr  | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |      |          |     |
|-----------|------------|----------|--------|-----------------------------------------------------------------------------|--------|-----|---------|--------|------|------|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|------|----------|-----|
| Date      | Time       | Time     | : Size | Pres                                                                        | Pres   | Tmp | Plate   | Pres   | Pres | Tmp  | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH   | Salinity | H2S |
| yyyy/mm/d | hh:mm:ss   | hr       | mm     | kPa(g)                                                                      | kPa(g) | °C  | mm      | kPa(g) | kPa  | °C   | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> | ppm  | ppm      |     |
| 88        | 2004/03/31 | 19:30:00 | 53.500 | 15.88                                                                       | 10115  |     | 14      | 76.20  | 528  | 79.7 | -28                               | 342.752                        | 22.920         | 0.00 | 100.0          | 0.00           | 3.70 |          |     |
| 89        |            | 20:00:00 | 54.000 |                                                                             | 10204  |     | 17      |        | 530  | 77.9 | -27                               | 338.676                        | 30.018         | 0.00 |                | 0.00           | 3.70 |          |     |
| 90        |            | 20:30:00 | 54.500 |                                                                             | 10215  |     | 17      |        | 526  | 77.4 | -22                               | 332.891                        | 37.014         | 0.00 |                | 0.00           | 3.70 |          |     |
| 91        |            | 20:30:00 | 54.500 | DECREASE CHOKE TO 26/64" OR 10.32mm                                         |        |     |         |        |      |      |                                   |                                |                |      |                |                |      |          |     |
| 92        |            | 21:00:00 | 55.000 | 10.32                                                                       | 13092  |     | 17      | 76.20  | 399  | 32.6 | -36                               | 197.211                        | 42.535         | 0.00 |                | 0.00           | 3.70 |          |     |
| 93        |            | 21:30:00 | 55.500 |                                                                             | 13121  |     | 17      |        | 399  | 31.9 | -35                               | 194.464                        | 46.615         | 0.05 |                | 0.05           | 3.75 |          |     |
| 94        |            | 22:00:00 | 56.000 |                                                                             | 13151  |     | 19      |        | 402  | 33.6 | -34                               | 199.961                        | 50.724         | 0.00 |                | 0.00           | 3.75 |          |     |
| 95        |            | 22:01:00 | 56.017 | INCREASE CHOKE TO 30/64" OR 11.91mm                                         |        |     |         |        |      |      |                                   |                                |                |      |                |                |      |          |     |
| 96        |            | 22:30:00 | 56.500 | 11.91                                                                       | 12881  |     | 20      | 76.20  | 366  | 47.6 | -31                               | 228.365                        | 55.186         | 0.00 |                | 0.00           | 3.75 |          |     |
| 97        |            | 23:00:00 | 57.000 |                                                                             | 12900  |     | 20      |        | 364  | 57.4 | -30                               | 250.438                        | 60.173         | 0.00 |                | 0.00           | 3.75 |          |     |
| 98        | 2004/03/31 | 23:30:00 | 57.500 |                                                                             | 12550  |     | 20      |        | 334  | 48.8 | -30                               | 222.902                        | 65.104         | 0.00 |                | 0.00           | 3.75 |          |     |
| 99        | 2004/04/01 | 00:00:00 | 58.000 | 11.91                                                                       | 12471  |     | 20      | 76.20  | 344  | 49.8 | -28                               | 226.802                        | 69.788         | 0.06 | 100.0          | 0.06           | 3.81 |          |     |
| 100       |            | 00:30:00 | 58.500 |                                                                             | 12391  |     | 23      |        | 357  | 51.3 | -25                               | 232.073                        | 74.568         | 0.00 |                | 0.00           | 3.81 |          |     |
| 101       |            | 01:00:00 | 59.000 |                                                                             | 12363  |     | 24      |        | 393  | 49.5 | -24                               | 236.230                        | 79.446         | 0.00 |                | 0.00           | 3.81 |          |     |
| 102       |            | 01:30:00 | 59.500 |                                                                             | 12260  |     | 24      |        | 386  | 50.3 | -23                               | 235.847                        | 84.364         | 0.00 |                | 0.00           | 3.81 |          |     |
| 103       |            | 02:00:00 | 60.000 | 11.91                                                                       | 12377  |     | 25      | 76.20  | 386  | 50.3 | -22                               | 235.353                        | 89.272         | 0.05 | 100.0          | 0.05           | 3.86 |          |     |
| 104       |            | 02:30:00 | 60.500 |                                                                             | 12126  |     | 26      |        | 393  | 50.5 | -21                               | 237.132                        | 94.194         | 0.00 |                | 0.00           | 3.86 |          |     |
| 105       |            | 03:00:00 | 61.000 |                                                                             | 12217  |     | 26      |        | 386  | 49.8 | -20                               | 233.203                        | 99.093         | 0.00 |                | 0.00           | 3.86 |          |     |
| 106       |            | 03:30:00 | 61.500 |                                                                             | 12250  |     | 26      |        | 386  | 51.5 | -19                               | 236.728                        | 103.988        | 0.00 |                | 0.00           | 3.86 |          |     |
| 107       |            | 03:30:00 | 61.500 | PROBLEMS HYDRATING UP STREAM OF METER RUN. VESSEL PRESSURE EXCEEDING 862kpa |        |     |         |        |      |      |                                   |                                |                |      |                |                |      |          |     |
| 108       |            | 04:00:00 | 62.000 | 11.91                                                                       | 12270  |     | 26      | 76.20  | 386  | 49.5 | -17                               | 231.170                        | 108.862        | 0.05 | 100.0          | 0.05           | 3.91 |          |     |
| 109       |            | 04:30:00 | 62.500 |                                                                             | 12160  |     | 26      |        | 393  | 49.8 | -15                               | 232.462                        | 113.692        | 0.00 |                | 0.00           | 3.91 |          |     |
| 110       |            | 05:00:00 | 63.000 |                                                                             | 12133  |     | 26      |        | 393  | 49.8 | -14                               | 231.992                        | 118.530        | 0.00 |                | 0.00           | 3.91 |          |     |
| 111       |            | 05:30:00 | 63.500 |                                                                             | 11974  |     | 26      |        | 386  | 50.3 | -14                               | 231.513                        | 123.358        | 0.00 |                | 0.00           | 3.91 |          |     |
| 112       |            | 06:00:00 | 64.000 |                                                                             | 11557  |     | 26      |        | 393  | 49.8 | -14                               | 231.992                        | 128.186        | 0.06 | 100.0          | 0.06           | 3.97 |          |     |
| 113       |            | 06:30:00 | 64.500 |                                                                             | 11459  |     | 26      |        | 386  | 47.3 | -14                               | 224.397                        | 132.940        | 0.00 |                | 0.00           | 3.97 |          |     |
| 114       |            | 07:00:00 | 65.000 |                                                                             | 11552  |     | 26      |        | 414  | 47.8 | -13                               | 231.489                        | 137.689        | 0.00 |                | 0.00           | 3.97 |          |     |
| 115       |            | 07:30:00 | 65.500 |                                                                             | 11756  |     | 27      |        | 407  | 48.1 | -13                               | 230.533                        | 142.502        | 0.00 |                | 0.00           | 3.97 |          |     |
| 116       |            | 07:40:00 | 65.667 | DECREASE CHOKE TO 24/64" OR 9.53mm TO DECREASE VESSEL PRESSURE              |        |     |         |        |      |      |                                   |                                |                |      |                |                |      |          |     |



## FieldNotes

## Field Measurements

|           | Clock      | Cum      | Choke  | Tbg                                             | Csg    | Tbg  | Orifice | Static | Diff | Mtr  | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |      |          |
|-----------|------------|----------|--------|-------------------------------------------------|--------|------|---------|--------|------|------|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|------|----------|
| Date      | Time       | Time     | : Size | Pres                                            | Pres   | Tmp  | Plate   | Pres   | Pres | Tmp  | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH   | Salinity |
| yyyy/mm/d | hh:mm:ss   | hr       | mm     | kPa(g)                                          | kPa(g) | °C   | mm      | kPa(g) | kPa  | °C   | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> | ppm  | ppm      |
| 117       | 2004/04/01 | 08:00:00 | 66.000 | 9.53                                            | 11001  |      | 28      | 76.20  | 269  | 34.4 | -12                               | 165.682                        | 146.629        | 0.00 |                | 0.00           | 3.97 |          |
| 118       |            | 08:30:00 | 66.500 |                                                 | 11832  |      | 28      |        | 269  | 35.6 | -12                               | 168.731                        | 150.113        | 0.10 | 100.0          | 0.10           | 4.07 |          |
| 119       |            | 09:00:00 | 67.000 |                                                 | 11636  |      | 28      |        | 269  | 35.9 | -14                               | 170.009                        | 153.641        | 0.00 |                | 0.00           | 4.07 |          |
| 120       |            | 09:30:00 | 67.500 |                                                 | 11803  |      | 27      |        | 269  | 34.9 | -15                               | 167.908                        | 157.161        | 0.00 |                | 0.00           | 4.07 |          |
| 121       |            | 10:00:00 | 68.000 | 9.53                                            | 11699  |      | 27      | 76.20  | 265  | 33.6 | -19                               | 165.281                        | 160.632        | 0.00 |                | 0.00           | 4.07 |          |
| 122       |            | 10:30:00 | 68.500 |                                                 | 11944  |      | 27      |        | 262  | 34.1 | -18                               | 165.491                        | 164.077        | 0.05 |                | 0.05           | 4.12 |          |
| 123       |            | 11:00:00 | 69.000 |                                                 | 11990  |      | 27      |        | 259  | 34.1 | -20                               | 165.486                        | 167.525        | 0.00 |                | 0.00           | 4.12 |          |
| 124       |            | 11:30:00 | 69.500 |                                                 | 11986  |      | 27      |        | 255  | 34.1 | -21                               | 164.912                        | 170.967        | 0.00 |                | 0.00           | 4.12 |          |
| 125       |            | 12:00:00 | 70.000 | 9.53                                            | 12034  |      | 27      | 76.20  | 252  | 34.1 | -21                               | 164.223                        | 174.395        | 0.00 |                | 0.00           | 4.12 |          |
| 126       |            | 12:30:00 | 70.500 |                                                 | 12131  |      | 26      |        | 248  | 34.6 | -21                               | 164.518                        | 177.819        | 0.05 | 100.0          | 0.05           | 4.17 |          |
| 127       |            | 13:00:00 | 71.000 |                                                 | 12218  |      | 27      |        | 248  | 34.4 | -20                               | 163.696                        | 181.238        | 0.00 |                | 0.00           | 4.17 |          |
| 128       |            | 13:30:00 | 71.500 |                                                 | 12223  |      | 27      |        | 248  | 34.9 | -20                               | 164.786                        | 184.660        | 0.00 |                | 0.00           | 4.17 |          |
| 129       |            | 14:00:00 | 72.000 | 9.53                                            | 12505  |      | 26      | 76.20  | 241  | 34.9 | -18                               | 162.483                        | 188.069        | 0.00 |                | 0.00           | 4.17 |          |
| 130       |            | 14:30:00 | 72.500 |                                                 | 12727  |      | 27      |        | 241  | 34.4 | -18                               | 161.288                        | 191.442        | 0.00 |                | 0.00           | 4.17 |          |
| 131       |            | 15:00:00 | 73.000 |                                                 | 12524  |      | 27      |        | 241  | 35.9 | -19                               | 165.185                        | 194.842        | 0.06 | 100.0          | 0.06           | 4.23 |          |
| 132       |            | 15:30:00 | 73.500 |                                                 | 12231  |      | 27      |        | 241  | 36.1 | -18                               | 165.437                        | 198.286        | 0.00 |                | 0.00           | 4.23 |          |
| 133       |            | 16:00:00 | 74.000 | 9.53                                            | 12394  |      | 27      | 76.20  | 241  | 34.4 | -18                               | 161.288                        | 201.690        | 0.00 |                | 0.00           | 4.23 |          |
| 134       |            | 16:00:00 | 74.000 | HYDRATE PROBLEMS @ METER RUN                    |        |      |         |        |      |      |                                   |                                |                |      |                |                |      |          |
| 135       |            | 16:30:00 | 74.500 |                                                 | 12394  |      | 27      |        | 241  | 34.4 | -18                               | 161.288                        | 205.050        | 0.00 |                | 0.00           | 4.23 |          |
| 136       |            | 17:00:00 | 75.000 |                                                 | 12393  |      | 27      |        | 241  | 31.9 | -18                               | 155.211                        | 208.347        | 0.00 |                | 0.00           | 4.23 |          |
| 137       |            | 17:30:00 | 75.500 |                                                 | 12425  |      | 24      |        | 234  | 31.9 | -18                               | 153.632                        | 211.564        | 0.10 | 100.0          | 0.10           | 4.33 |          |
| 138       |            | 18:00:00 | 76.000 |                                                 | 12344  |      | 25      |        | 234  | 32.1 | -20                               | 154.874                        | 214.778        | 0.00 |                | 0.00           | 4.33 |          |
| 139       |            | 18:30:00 | 76.500 |                                                 | 12287  |      | 24      |        | 241  | 34.1 | -20                               | 161.425                        | 218.072        | 0.05 | 100.0          | 0.05           | 4.38 |          |
| 140       |            | 19:00:00 | 77.000 |                                                 | 11955  |      | 24      |        | 228  | 36.1 | -20                               | 162.843                        | 221.450        | 0.00 |                | 0.00           | 4.38 |          |
| 141       |            | 19:30:00 | 77.500 |                                                 | 11786  |      | 24      |        | 228  | 38.8 | -20                               | 169.063                        | 224.907        | 0.00 |                | 0.00           | 4.38 |          |
| 142       |            | 20:00:00 | 78.000 |                                                 | 11655  |      | 24      |        | 228  | 39.1 | -21                               | 169.966                        | 228.439        | 0.00 |                | 0.00           | 4.38 |          |
| 143       |            | 20:30:00 | 78.500 |                                                 | 11637  |      | 24      |        | 214  | 39.1 | -22                               | 166.766                        | 231.947        | 0.00 |                | 0.00           | 4.38 |          |
| 144       |            | 20:31:00 | 78.517 | SHUT IN, AND MONITOR TUBING AND CASING PRESSURE |        |      |         |        |      |      |                                   |                                |                |      |                |                |      |          |
| 145       |            | 20:35:00 | 78.583 |                                                 | 11607  | 3479 |         |        |      |      |                                   |                                |                |      |                |                |      |          |



ANADARKO CANADA CORP.  
A-77  
Start Test Date: 2004/03/29  
Final Test Date: 2004/04/05

ANADARKO ARROWHEAD  
Formation: SLAVE POINT

Job Number: 3022

|           | Clock      | Cum      | Choke  | Tbg                                       | Csg    | Tbg  | Orifice | Static | Diff | Mtr | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |    |          |     |  |  |
|-----------|------------|----------|--------|-------------------------------------------|--------|------|---------|--------|------|-----|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|----|----------|-----|--|--|
| Date      | Time       | Time     | : Size | Pres                                      | Pres   | Tmp  | Plate   | Pres   | Pres | Tmp | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH | Salinity | H2S |  |  |
| yyyy/mm/d | hh:mm:ss   | hr       | mm     | kPa(g)                                    | kPa(g) | °C   | mm      | kPa(g) | kPa  | °C  | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> |    | ppm      | ppm |  |  |
| 146       | 2004/04/01 | 20:40:00 | 78.667 |                                           | 11557  | 3249 |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 147       |            | 20:45:00 | 78.750 |                                           | 11534  | 2951 |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 148       |            | 21:00:00 | 79.000 |                                           | 11383  | 2275 |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 149       |            | 21:15:00 | 79.250 |                                           | 11287  | 1946 |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 150       |            | 21:30:00 | 79.500 |                                           | 11231  | 1656 |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 151       |            | 22:00:00 | 80.000 |                                           | 11154  | 1242 |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 152       |            | 22:30:00 | 80.500 | NEEDLE VALE ON WELL HEAD PLUGGED WITH MUD |        |      |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 153       |            | 22:30:00 | 80.500 |                                           | 14202  | 821  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 154       |            | 23:00:00 | 81.000 |                                           | 14212  | 806  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 155       |            | 23:30:00 | 81.500 |                                           | 14199  | 802  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 156       | 2004/04/02 | 00:00:00 | 82.000 |                                           | 14193  | 804  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 157       |            | 00:30:00 | 82.500 |                                           | 14190  | 797  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 158       |            | 01:00:00 | 83.000 |                                           | 14184  | 791  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 159       |            | 01:30:00 | 83.500 |                                           | 14182  | 787  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 160       |            | 02:00:00 | 84.000 |                                           | 14179  | 784  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 161       |            | 02:30:00 | 84.500 |                                           | 14174  | 780  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 162       |            | 03:00:00 | 85.000 |                                           | 14183  | 779  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 163       |            | 03:30:00 | 85.500 |                                           | 14225  | 726  |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 164       |            | 03:30:00 | 85.500 | CASING ON A VACUUM                        |        |      |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 165       |            | 04:00:00 | 86.000 |                                           | 14216  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 166       |            | 04:30:00 | 86.500 |                                           | 14215  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 167       |            | 05:00:00 | 87.000 |                                           | 14208  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 168       |            | 05:30:00 | 87.500 |                                           | 14198  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 169       |            | 06:00:00 | 88.000 |                                           | 14151  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 170       |            | 06:30:00 | 88.500 |                                           | 14190  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 171       |            | 07:00:00 | 89.000 |                                           | 14190  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 172       |            | 07:30:00 | 89.500 |                                           | 14185  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 173       |            | 08:00:00 | 90.000 |                                           | 14162  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |
| 174       |            | 08:30:00 | 90.500 |                                           | 14123  | 0    |         |        |      |     |                                   |                                |                |      |                |                |    |          |     |  |  |



Start Test Date: 2004/03/29  
Final Test Date: 2004/04/05

**ANADARKO ARROWHEAD**  
**Formation: SLAVE POINT**

Job Number: 3022

[illegible]



|           | Clock      | Cum      | Choke   | Tbg    | Csg    | Tbg | Orifice | Static | Diff | Mtr  | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |      |          |      |
|-----------|------------|----------|---------|--------|--------|-----|---------|--------|------|------|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|------|----------|------|
| Date      | Time       | Time     | : Size  | Pres   | Pres   | Tmp | Plate   | Pres   | Pres | Tmp  | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH   | Salinity | H2S  |
| yyyy/mm/d | hh:mm:ss   | hr       | mm      | kPa(g) | kPa(g) | °C  | mm      | kPa(g) | kPa  | °C   | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> | ppm  | ppm      |      |
| 204       | 2004/04/02 | 18:00:00 | 100.000 | 11.91  | 11873  |     | 26      | 76.20  | 469  | 70.0 | 21                                | 277.445                        | 294.571        | 0.11 | 100.0          | 0.11           | 4.90 | 7.0      | 2000 |
| 205       |            | 18:30:00 | 100.500 |        | 11872  |     | 27      |        | 472  | 70.0 | 21                                | 278.233                        | 300.360        | 0.00 |                | 0.00           | 4.90 |          |      |
| 206       |            | 19:00:00 | 101.000 |        | 11862  |     | 27      |        | 472  | 70.0 | 22                                | 277.744                        | 306.151        | 0.12 | 100.0          | 0.12           | 5.02 | 7.0      | 2000 |
| 207       |            | 19:30:00 | 101.500 |        | 11888  |     | 28      |        | 476  | 70.2 | 22                                | 279.073                        | 311.951        | 0.00 |                | 0.00           | 5.02 |          |      |
| 208       |            | 20:00:00 | 102.000 | 11.91  | 11887  |     | 28      | 76.20  | 472  | 70.2 | 24                                | 277.280                        | 317.747        | 0.06 | 100.0          | 0.06           | 5.08 | 7.0      | 2000 |
| 209       |            | 20:30:00 | 102.500 |        | 11885  |     | 28      |        | 469  | 70.2 | 24                                | 276.460                        | 323.515        | 0.00 |                | 0.00           | 5.08 |          |      |
| 210       |            | 21:00:00 | 103.000 |        | 11886  |     | 28      |        | 469  | 70.2 | 24                                | 276.460                        | 329.274        | 0.00 |                | 0.00           | 5.08 |          |      |
| 211       |            | 21:30:00 | 103.500 |        | 11885  |     | 29      |        | 469  | 70.2 | 24                                | 276.460                        | 335.034        | 0.00 |                | 0.00           | 5.08 |          |      |
| 212       |            | 22:00:00 | 104.000 | 11.91  | 11878  |     | 29      | 76.20  | 469  | 70.0 | 24                                | 275.955                        | 340.788        | 0.12 | 100.0          | 0.12           | 5.19 |          |      |
| 213       |            | 22:30:00 | 104.500 |        | 11880  |     | 29      |        | 469  | 70.0 | 26                                | 274.997                        | 346.527        | 0.00 |                | 0.00           | 5.19 |          |      |
| 214       |            | 23:00:00 | 105.000 |        | 11876  |     | 30      |        | 469  | 70.0 | 26                                | 274.999                        | 352.256        | 0.12 | 100.0          | 0.12           | 5.31 | 7.0      | 2000 |
| 215       |            | 23:30:00 | 105.500 |        | 11860  |     | 29      |        | 476  | 70.0 | 28                                | 275.677                        | 357.993        | 0.00 |                | 0.00           | 5.31 |          |      |
| 216       | 2004/04/03 | 00:00:00 | 106.000 | 11.91  | 11865  |     | 30      | 76.20  | 476  | 70.2 | 28                                | 276.180                        | 363.741        | 0.00 |                | 0.00           | 5.31 |          |      |
| 217       |            | 00:30:00 | 106.500 |        | 11855  |     | 30      |        | 476  | 70.0 | 28                                | 275.677                        | 369.490        | 0.00 |                | 0.00           | 5.31 |          |      |
| 218       |            | 01:00:00 | 107.000 |        | 11850  |     | 31      |        | 476  | 70.0 | 29                                | 275.205                        | 375.228        | 0.12 | 100.0          | 0.12           | 5.43 | 7.0      | 2000 |
| 219       |            | 01:30:00 | 107.500 |        | 11756  |     | 30      |        | 476  | 69.7 | 20                                | 279.036                        | 381.001        | 0.00 |                | 0.00           | 5.43 |          |      |
| 220       |            | 02:00:00 | 108.000 | 11.91  | 11755  |     | 31      | 76.20  | 476  | 70.2 | 20                                | 280.058                        | 386.825        | 0.00 |                | 0.00           | 5.43 |          |      |
| 221       |            | 02:30:00 | 108.500 |        | 11758  |     | 33      |        | 476  | 70.0 | 22                                | 278.564                        | 392.644        | 0.15 | 100.0          | 0.15           | 5.58 |          |      |
| 222       |            | 03:00:00 | 109.000 |        | 11776  |     | 34      |        | 462  | 70.2 | 23                                | 275.292                        | 398.414        | 0.00 |                | 0.00           | 5.58 |          |      |
| 223       |            | 03:30:00 | 109.500 |        | 11780  |     | 34      |        | 462  | 70.0 | 24                                | 274.311                        | 404.139        | 0.15 | 100.0          | 0.15           | 5.73 |          |      |
| 224       |            | 04:00:00 | 110.000 | 11.91  | 11763  |     | 34      | 76.20  | 462  | 70.0 | 24                                | 274.311                        | 409.853        | 0.15 | 100.0          | 0.15           | 5.88 |          |      |
| 225       |            | 04:30:00 | 110.500 |        | 11766  |     | 34      |        | 462  | 69.7 | 26                                | 272.860                        | 415.553        | 0.00 |                | 0.00           | 5.88 |          |      |
| 226       |            | 05:00:00 | 111.000 |        | 11763  |     | 34      |        | 469  | 69.7 | 26                                | 274.496                        | 421.255        | 0.00 |                | 0.00           | 5.88 |          |      |
| 227       |            | 05:30:00 | 111.500 |        | 11761  |     | 30      |        | 469  | 69.5 | 26                                | 273.992                        | 426.968        | 0.00 |                | 0.00           | 5.88 |          |      |
| 228       |            | 06:00:00 | 112.000 | 11.91  | 11751  |     | 34      | 76.20  | 469  | 69.5 | 26                                | 273.992                        | 432.676        | 0.12 | 100.0          | 0.12           | 6.00 |          |      |
| 229       |            | 06:30:00 | 112.500 |        | 11746  |     | 34      |        | 469  | 69.5 | 27                                | 273.519                        | 438.380        | 0.00 |                | 0.00           | 6.00 |          |      |
| 230       |            | 07:00:00 | 113.000 |        | 11702  |     | 34      |        | 469  | 69.2 | 25                                | 273.961                        | 444.082        | 0.12 | 100.0          | 0.12           | 6.11 |          |      |
| 231       |            | 07:30:00 | 113.500 |        | 11666  |     | 35      |        | 469  | 69.2 | 22                                | 275.429                        | 449.805        | 0.00 |                | 0.00           | 6.11 |          |      |
| 232       |            | 08:00:00 | 114.000 | 11.91  | 11640  |     | 36      | 76.20  | 469  | 69.2 | 21                                | 275.913                        | 455.548        | 0.06 | 100.0          | 0.06           | 6.17 |          |      |



|           | Clock      | Cum      | Choke   | Tbg                       | Csg    | Tbg | Orifice | Static | Diff | Mtr | Gas                               | Cum.                           | Inc.           | Inc.  | Cum.           |                |    |          |     |  |    |  |  |
|-----------|------------|----------|---------|---------------------------|--------|-----|---------|--------|------|-----|-----------------------------------|--------------------------------|----------------|-------|----------------|----------------|----|----------|-----|--|----|--|--|
| Date      | Time       | Time     | : Size  | Pres                      | Pres   | Tmp | Plate   | Pres   | Pres | Tmp | Rate                              | Gas                            | Fluid          | BSW   | Water          | Water          | pH | Salinity | H2S |  |    |  |  |
| yyyy/mm/d | hh:mm:ss   | hr       | mm      | kPa(g)                    | kPa(g) | °C  | mm      | kPa(g) | kPa  | °C  | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %     | m <sup>3</sup> | m <sup>3</sup> |    | ppm      | ppm |  |    |  |  |
| 233       | 2004/04/03 | 08:00:00 | 114.000 | NO FLUID SAMPLE AVAILABLE |        |     |         |        |      |     |                                   |                                |                |       |                |                |    |          |     |  |    |  |  |
| 234       |            | 08:30:00 | 114.500 | 11.91                     | 11616  | 35  | 76.20   | 469    | 69.0 | 19  | 276.377                           | 461.301                        | 0.00           |       | 0.00           | 6.17           |    |          |     |  |    |  |  |
| 235       |            | 09:00:00 | 115.000 |                           | 11596  | 36  |         | 469    | 69.0 | 19  | 276.377                           | 467.059                        | 0.08           | 100.0 | 0.08           | 6.25           |    |          |     |  |    |  |  |
| 236       |            | 09:30:00 | 115.500 |                           | 11605  | 37  |         | 469    | 68.7 | 19  | 275.862                           | 472.812                        | 0.00           |       | 0.00           | 6.25           |    |          |     |  |    |  |  |
| 237       |            | 10:00:00 | 116.000 | 11.91                     | 11584  | 37  | 76.20   | 465    | 68.5 | 19  | 274.415                           | 478.544                        | 0.11           | 100.0 | 0.11           | 6.36           |    |          |     |  |    |  |  |
| 238       |            | 10:30:00 | 116.500 |                           | 11578  | 38  |         | 465    | 68.2 | 19  | 273.900                           | 484.255                        | 0.00           |       | 0.00           | 6.36           |    |          |     |  |    |  |  |
| 239       |            | 11:00:00 | 117.000 |                           | 11573  | 38  |         | 462    | 68.2 | 19  | 273.185                           | 489.954                        | 0.06           | 100.0 | 0.06           | 6.42           |    |          |     |  | 30 |  |  |
| 240       |            | 11:00:00 | 117.000 | H2S = 30ppm               |        |     |         |        |      |     |                                   |                                |                |       |                |                |    |          |     |  |    |  |  |
| 241       |            | 11:30:00 | 117.500 |                           | 11557  | 40  |         | 462    | 68.2 | 20  | 272.701                           | 495.641                        | 0.00           |       | 0.00           | 6.42           |    |          |     |  |    |  |  |
| 242       |            | 12:00:00 | 118.000 | 11.91                     | 11552  | 40  | 76.20   | 462    | 68.2 | 21  | 272.221                           | 501.317                        | 0.12           | 100.0 | 0.12           | 6.54           |    |          |     |  |    |  |  |
| 243       |            | 12:30:00 | 118.500 |                           | 11543  | 39  |         | 462    | 68.0 | 21  | 271.708                           | 506.983                        | 0.00           |       | 0.00           | 6.54           |    |          |     |  |    |  |  |
| 244       |            | 13:00:00 | 119.000 |                           | 11540  | 39  |         | 462    | 67.7 | 21  | 271.194                           | 512.638                        | 0.08           | 100.0 | 0.08           | 6.62           |    |          |     |  |    |  |  |
| 245       |            | 13:30:00 | 119.500 |                           | 11526  | 40  |         | 468    | 67.7 | 21  | 272.612                           | 518.303                        | 0.00           |       | 0.00           | 6.62           |    |          |     |  |    |  |  |
| 246       |            | 14:00:00 | 120.000 | 11.91                     | 1154   | 41  | 76.20   | 468    | 67.5 | 22  | 271.617                           | 523.972                        | 0.14           | 100.0 | 0.14           | 6.76           |    |          |     |  |    |  |  |
| 247       |            | 14:30:00 | 120.500 |                           | 11520  | 39  |         | 472    | 67.5 | 23  | 272.077                           | 529.635                        | 0.00           |       | 0.00           | 6.76           |    |          |     |  |    |  |  |
| 248       |            | 15:00:00 | 121.000 |                           | 11514  | 39  |         | 472    | 67.5 | 25  | 271.130                           | 535.294                        | 0.08           | 100.0 | 0.08           | 6.84           |    |          |     |  |    |  |  |
| 249       |            | 15:30:00 | 121.500 |                           | 11510  | 40  |         | 472    | 67.2 | 25  | 270.614                           | 540.937                        | 0.00           |       | 0.00           | 6.84           |    |          |     |  |    |  |  |
| 250       |            | 16:00:00 | 122.000 | 11.91                     | 11508  | 39  | 76.20   | 469    | 67.2 | 23  | 270.859                           | 546.577                        | 0.10           | 100.0 | 0.10           | 6.94           |    |          |     |  |    |  |  |
| 251       |            | 16:30:00 | 122.500 |                           | 11478  | 39  |         | 469    | 67.0 | 23  | 270.341                           | 552.215                        | 0.00           |       | 0.00           | 6.94           |    |          |     |  |    |  |  |
| 252       |            | 17:00:00 | 123.000 |                           | 11486  | 39  |         | 462    | 67.0 | 23  | 268.704                           | 557.830                        | 0.10           | 100.0 | 0.10           | 7.04           |    |          |     |  |    |  |  |
| 253       |            | 17:30:00 | 123.500 |                           | 11484  | 39  |         | 455    | 67.7 | 23  | 268.568                           | 563.426                        | 0.00           |       | 0.00           | 7.04           |    |          |     |  |    |  |  |
| 254       |            | 18:00:00 | 124.000 | 11.91                     | 11481  | 39  | 76.20   | 455    | 67.7 | 23  | 268.588                           | 569.022                        | 0.08           | 100.0 | 0.08           | 7.12           |    |          |     |  |    |  |  |
| 255       |            | 18:00:00 | 124.000 | NO FLUID SAMPLE AVAILABLE |        |     |         |        |      |     |                                   |                                |                |       |                |                |    |          |     |  |    |  |  |
| 256       |            | 18:30:00 | 124.500 |                           | 11461  | 39  |         | 455    | 67.7 | 23  | 268.588                           | 574.617                        | 0.00           |       | 0.00           | 7.12           |    |          |     |  |    |  |  |
| 257       |            | 19:00:00 | 125.000 |                           | 11464  | 38  |         | 455    | 67.7 | 22  | 269.071                           | 580.218                        | 0.00           |       | 0.00           | 7.12           |    |          |     |  |    |  |  |
| 258       |            | 19:30:00 | 125.500 |                           | 11457  | 40  |         | 455    | 67.5 | 22  | 268.562                           | 585.818                        | 0.00           |       | 0.00           | 7.12           |    |          |     |  |    |  |  |
| 259       |            | 20:00:00 | 126.000 | 11.91                     | 11454  | 40  | 76.20   | 455    | 67.5 | 22  | 268.562                           | 591.413                        | 0.00           |       | 0.00           | 7.12           |    |          |     |  |    |  |  |
| 260       |            | 20:30:00 | 126.500 |                           | 11457  | 40  |         | 455    | 67.5 | 22  | 268.562                           | 597.008                        | 0.00           |       | 0.00           | 7.12           |    |          |     |  |    |  |  |
| 261       |            | 21:00:00 | 127.000 |                           | 11454  | 38  |         | 455    | 67.7 | 22  | 269.071                           | 602.609                        | 0.00           |       | 0.00           | 7.12           |    |          |     |  |    |  |  |



## FieldNotes

## Field Measurements

|           | Clock      | Cum      | Choke   | Tbg    | Csg    | Tbg | Orifice | Static | Diff | Mtr  | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |      |          |     |
|-----------|------------|----------|---------|--------|--------|-----|---------|--------|------|------|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|------|----------|-----|
| Date      | Time       | Time     | : Size  | Pres   | Pres   | Tmp | Plate   | Pres   | Pres | Tmp  | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH   | Salinity | H2S |
| yyyy/mm/d | hh:mm:ss   | hr       | mm      | kPa(g) | kPa(g) | °C  | mm      | kPa(g) | kPa  | °C   | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> | ppm  | ppm      |     |
| 262       | 2004/04/03 | 21:30:00 | 127.500 |        | 11447  |     | 40      |        | 455  | 67.7 | 22                                | 269.071                        | 608.214        | 0.06 | 100.0          | 0.06           | 7.18 |          |     |
| 263       |            | 22:00:00 | 128.000 | 11.91  | 11437  |     | 40      | 76.20  | 455  | 67.7 | 22                                | 269.071                        | 613.820        | 0.00 |                | 0.00           | 7.18 |          |     |
| 264       |            | 22:30:00 | 128.500 |        | 11442  |     | 38      |        | 455  | 67.7 | 22                                | 269.071                        | 619.426        | 0.16 | 100.0          | 0.16           | 7.34 |          |     |
| 265       |            | 23:00:00 | 129.000 |        | 11448  |     | 38      |        | 455  | 67.7 | 22                                | 269.071                        | 625.031        | 0.00 |                | 0.00           | 7.34 |          |     |
| 266       |            | 23:30:00 | 129.500 |        | 11417  |     | 40      |        | 441  | 67.7 | 22                                | 265.773                        | 630.602        | 0.00 |                | 0.00           | 7.34 |          |     |
| 267       | 2004/04/04 | 00:00:00 | 130.000 | 11.91  | 11430  |     | 40      | 76.20  | 441  | 67.7 | 22                                | 265.773                        | 636.139        | 0.00 |                | 0.00           | 7.34 |          |     |
| 268       |            | 00:30:00 | 130.500 |        | 11440  |     | 40      |        | 441  | 67.5 | 22                                | 265.271                        | 641.671        | 0.00 |                | 0.00           | 7.34 |          |     |
| 269       |            | 01:00:00 | 131.000 |        | 11425  |     | 38      |        | 441  | 67.2 | 22                                | 264.767                        | 647.192        | 0.12 | 100.0          | 0.12           | 7.47 |          |     |
| 270       |            | 01:30:00 | 131.500 |        | 11429  |     | 39      |        | 441  | 67.5 | 22                                | 265.271                        | 652.714        | 0.00 |                | 0.00           | 7.47 |          |     |
| 271       |            | 02:00:00 | 132.000 | 11.91  | 11427  |     | 38      | 76.20  | 448  | 67.0 | 22                                | 265.907                        | 658.247        | 0.00 |                | 0.00           | 7.47 |          |     |
| 272       |            | 02:30:00 | 132.500 |        | 11421  |     | 38      |        | 455  | 67.2 | 22                                | 268.053                        | 663.809        | 0.12 | 100.0          | 0.12           | 7.59 |          |     |
| 273       |            | 03:00:00 | 133.000 |        | 11401  |     | 38      |        | 455  | 67.2 | 22                                | 268.053                        | 669.393        | 0.00 |                | 0.00           | 7.59 |          |     |
| 274       |            | 03:30:00 | 133.500 |        | 11402  |     | 38      |        | 455  | 67.0 | 22                                | 267.543                        | 674.972        | 0.00 |                | 0.00           | 7.59 |          |     |
| 275       |            | 04:00:00 | 134.000 | 11.91  | 11392  |     | 38      | 76.20  | 455  | 67.2 | 22                                | 268.053                        | 680.551        | 0.00 |                | 0.00           | 7.59 |          |     |
| 276       |            | 04:30:00 | 134.500 |        | 11394  |     | 38      |        | 455  | 67.0 | 22                                | 267.543                        | 686.131        | 0.13 | 100.0          | 0.13           | 7.72 |          |     |
| 277       |            | 05:00:00 | 135.000 |        | 11395  |     | 38      |        | 455  | 67.0 | 22                                | 267.543                        | 691.704        | 0.00 |                | 0.00           | 7.72 |          |     |
| 278       |            | 05:30:00 | 135.500 |        | 11396  |     | 38      |        | 455  | 66.7 | 22                                | 267.031                        | 697.273        | 0.00 |                | 0.00           | 7.72 |          |     |
| 279       |            | 06:00:00 | 136.000 | 11.91  | 11370  |     | 38      | 76.20  | 455  | 66.7 | 22                                | 267.031                        | 702.836        | 0.00 |                | 0.00           | 7.72 |          |     |
| 280       |            | 06:30:00 | 136.500 |        | 11390  |     | 38      |        | 455  | 66.5 | 22                                | 266.519                        | 708.394        | 0.17 | 100.0          | 0.17           | 7.88 |          |     |
| 281       |            | 07:00:00 | 137.000 |        | 11381  |     | 38      |        | 455  | 66.7 | 22                                | 267.031                        | 713.952        | 0.00 |                | 0.00           | 7.88 |          |     |
| 282       |            | 07:30:00 | 137.500 |        | 11361  |     | 38      |        | 455  | 66.7 | 22                                | 267.031                        | 719.515        | 0.06 |                | 0.06           | 7.94 |          |     |
| 283       |            | 08:00:00 | 138.000 | 11.91  | 11340  |     | 38      | 76.20  | 452  | 66.5 | 21                                | 266.256                        | 725.070        | 0.00 |                | 0.00           | 7.94 |          |     |
| 284       |            | 08:30:00 | 138.500 |        | 11336  |     | 38      |        | 452  | 66.5 | 21                                | 266.256                        | 730.617        | 0.00 |                | 0.00           | 7.94 |          |     |
| 285       |            | 09:00:00 | 139.000 |        | 11341  |     | 38      |        | 448  | 66.5 | 21                                | 265.308                        | 736.154        | 0.08 | 100.0          | 0.08           | 8.02 |          |     |
| 286       |            | 09:30:00 | 139.500 |        | 11331  |     | 39      |        | 448  | 66.5 | 21                                | 265.308                        | 741.681        | 0.00 |                | 0.00           | 8.02 |          |     |
| 287       |            | 10:00:00 | 140.000 | 11.91  | 11326  |     | 39      | 76.20  | 448  | 66.5 | 21                                | 265.308                        | 747.209        | 0.06 |                | 0.06           | 8.08 |          |     |
| 288       |            | 10:30:00 | 140.500 |        | 11308  |     | 38      |        | 448  | 66.2 | 21                                | 264.795                        | 752.730        | 0.00 |                | 0.00           | 8.08 |          |     |
| 289       |            | 11:00:00 | 141.000 |        | 11313  |     | 39      |        | 448  | 66.2 | 21                                | 264.795                        | 758.247        | 0.08 | 100.0          | 0.08           | 8.16 |          |     |
| 290       |            | 11:30:00 | 141.500 |        | 11301  |     | 39      |        | 448  | 66.2 | 21                                | 264.795                        | 763.764        | 0.00 |                | 0.00           | 8.16 |          |     |



## FieldNotes

## Field Measurements

|           | Clock      | Cum      | Choke   | Tbg                                                         | Csg    | Tbg | Orifice | Static | Diff | Mtr  | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |      |          |     |
|-----------|------------|----------|---------|-------------------------------------------------------------|--------|-----|---------|--------|------|------|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|------|----------|-----|
| Date      | Time       | Time     | : Size  | Pres                                                        | Pres   | Tmp | Plate   | Pres   | Pres | Tmp  | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH   | Salinity | H2S |
| yyyy/mm/d | hh:mm:ss   | hr       | mm      | kPa(g)                                                      | kPa(g) | °C  | mm      | kPa(g) | kPa  | °C   | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> | ppm  | ppm      |     |
| 291       | 2004/04/04 | 12:00:00 | 142.000 | 11.91                                                       | 11299  |     | 39      | 76.20  | 448  | 66.0 | 21                                | 264.302                        | 769.275        | 0.06 | 100.0          | 0.06           | 8.22 |          |     |
| 292       |            | 12:30:00 | 142.500 |                                                             | 11293  |     | 39      |        | 448  | 66.0 | 22                                | 263.838                        | 774.776        | 0.00 |                | 0.00           | 8.22 |          |     |
| 293       |            | 13:00:00 | 143.000 |                                                             | 11295  |     | 39      |        | 448  | 65.7 | 22                                | 263.324                        | 780.268        | 0.08 | 100.0          | 0.08           | 8.30 |          |     |
| 294       |            | 13:30:00 | 143.500 |                                                             | 11283  |     | 39      |        | 448  | 65.5 | 22                                | 262.810                        | 785.748        | 0.00 |                | 0.00           | 8.30 |          |     |
| 295       |            | 14:00:00 | 144.000 | 11.91                                                       | 11271  |     | 38      | 76.20  | 448  | 65.2 | 22                                | 262.294                        | 791.218        | 0.04 | 100.0          | 0.04           | 8.34 |          |     |
| 296       |            | 14:30:00 | 144.500 |                                                             | 11210  |     | 39      |        | 445  | 64.7 | 22                                | 260.557                        | 796.664        | 0.00 |                | 0.00           | 8.34 |          |     |
| 297       |            | 15:00:00 | 145.000 |                                                             | 11254  |     | 38      |        | 445  | 64.7 | 22                                | 260.557                        | 802.093        | 0.06 | 100.0          | 0.06           | 8.40 |          |     |
| 298       |            | 15:30:00 | 145.500 |                                                             | 11264  |     | 38      |        | 445  | 64.7 | 22                                | 260.557                        | 807.521        | 0.00 |                | 0.00           | 8.40 |          |     |
| 299       |            | 16:00:00 | 146.000 | 11.91                                                       | 11260  |     | 38      | 76.20  | 445  | 64.7 | 22                                | 260.557                        | 812.949        | 0.06 | 100.0          | 0.06           | 8.46 |          |     |
| 300       |            | 16:30:00 | 146.500 |                                                             | 11218  |     | 38      |        | 448  | 64.5 | 22                                | 260.742                        | 818.379        | 0.00 |                | 0.00           | 8.46 |          |     |
| 301       |            | 17:00:00 | 147.000 |                                                             | 11239  |     | 38      |        | 448  | 64.5 | 22                                | 260.742                        | 823.812        | 0.10 | 100.0          | 0.10           | 8.56 |          |     |
| 302       |            | 17:30:00 | 147.500 |                                                             | 11242  |     | 38      |        | 448  | 64.5 | 22                                | 260.742                        | 829.244        | 0.00 |                | 0.00           | 8.56 |          |     |
| 303       |            | 18:00:00 | 148.000 | 11.91                                                       | 11237  |     | 38      | 76.20  | 448  | 64.5 | 22                                | 260.742                        | 834.676        | 0.05 | 100.0          | 0.05           | 8.61 |          |     |
| 304       |            | 18:30:00 | 148.500 |                                                             | 11231  |     | 38      |        | 448  | 64.5 | 20                                | 261.661                        | 840.118        | 0.00 |                | 0.00           | 8.61 |          |     |
| 305       |            | 19:00:00 | 149.000 |                                                             | 11225  |     | 38      |        | 448  | 65.1 | 21                                | 262.466                        | 845.577        | 0.06 | 100.0          | 0.06           | 8.67 |          |     |
| 306       |            | 19:30:00 | 149.500 |                                                             | 11221  |     | 38      |        | 448  | 65.1 | 20                                | 262.929                        | 851.050        | 0.00 |                | 0.00           | 8.67 |          |     |
| 307       |            | 20:00:00 | 150.000 | 11.91                                                       | 11224  |     | 38      | 76.20  | 448  | 65.1 | 20                                | 262.929                        | 856.528        | 0.04 | 100.0          | 0.04           | 8.71 |          | 30  |
| 308       |            | 20:00:00 | 150.000 | H2S = 30ppm                                                 |        |     |         |        |      |      |                                   |                                |                |      |                |                |      |          |     |
| 309       |            | 20:30:00 | 150.500 |                                                             | 11224  |     | 38      |        | 448  | 65.1 | 20                                | 262.929                        | 862.005        | 0.00 |                | 0.00           | 8.71 |          |     |
| 310       |            | 21:00:00 | 151.000 |                                                             | 11185  |     | 36      |        | 448  | 64.7 | 19                                | 262.646                        | 867.480        | 0.05 | 100.0          | 0.05           | 8.76 |          |     |
| 311       |            | 21:30:00 | 151.500 |                                                             | 11200  |     | 36      |        | 448  | 64.7 | 19                                | 262.646                        | 872.952        | 0.00 |                | 0.00           | 8.76 |          |     |
| 312       |            | 22:00:00 | 152.000 | 11.91                                                       | 11195  |     | 34      | 76.20  | 448  | 64.7 | 19                                | 262.646                        | 878.424        | 0.06 | 100.0          | 0.06           | 8.83 |          |     |
| 313       |            | 22:30:00 | 152.500 |                                                             | 11195  |     | 34      |        | 448  | 64.7 | 19                                | 262.646                        | 883.896        | 0.00 |                | 0.00           | 8.83 |          |     |
| 314       |            | 23:00:00 | 153.000 |                                                             | 11188  |     | 34      |        | 448  | 64.7 | 19                                | 262.473                        | 889.366        | 0.00 |                | 0.00           | 8.83 |          |     |
| 315       |            | 23:30:00 | 153.500 |                                                             | 11174  |     | 33      |        | 448  | 64.7 | 19                                | 262.517                        | 894.834        | 0.07 | 100.0          | 0.07           | 8.89 |          |     |
| 316       |            | 23:45:00 | 153.750 | TWO GAS SAMPLES TAKEN FOR LAB TESTING. BOMB#S 30843, 30605. |        |     |         |        |      |      |                                   |                                |                |      |                |                |      |          |     |
| 317       |            | 23:45:00 | 153.750 | NOTE : COULD NOT OBTAIN FLUID SAMPLE FOR LAB TESTING        |        |     |         |        |      |      |                                   |                                |                |      |                |                |      |          |     |
| 318       | 2004/04/05 | 00:00:00 | 154.000 | 11.91                                                       | 11162  |     | 33      | 76.20  | 448  | 64.7 | 19                                | 262.517                        | 900.303        | 0.00 |                | 0.00           | 8.89 |          |     |
| 319       |            | 00:00:00 | 154.000 | SHUT IN WELL. RECORD BUILD UP & RIG OUT TEST EQUIPMENT      |        |     |         |        |      |      |                                   |                                |                |      |                |                |      |          |     |



|           | Clock      | Cum      | Choke   | Tbg                             | Csg    | Tbg | Orifice | Static | Diff | Mtr | Gas                               | Cum.                           | Inc.           | Inc. | Cum.           |                |     |          |     |  |
|-----------|------------|----------|---------|---------------------------------|--------|-----|---------|--------|------|-----|-----------------------------------|--------------------------------|----------------|------|----------------|----------------|-----|----------|-----|--|
| Date      | Time       | Time     | : Size  | Pres                            | Pres   | Tmp | Plate   | Pres   | Pres | Tmp | Rate                              | Gas                            | Fluid          | BSW  | Water          | Water          | pH  | Salinity | H2S |  |
| yyyy/mm/d | hh:mm:ss   | hr       | mm      | kPa(g)                          | kPa(g) | °C  | mm      | kPa(g) | kPa  | °C  | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %    | m <sup>3</sup> | m <sup>3</sup> | ppm | ppm      | ppm |  |
| 320       | 2004/04/05 | 00:05:00 | 154.083 |                                 | 13480  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 321       |            | 00:10:00 | 154.167 |                                 | 13447  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 322       |            | 00:15:00 | 154.250 |                                 | 13445  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 323       |            | 00:30:00 | 154.500 |                                 | 13446  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 324       |            | 00:45:00 | 154.750 |                                 | 13486  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 325       |            | 01:00:00 | 155.000 |                                 | 13448  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 326       |            | 01:30:00 | 155.500 |                                 | 13499  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 327       |            | 02:00:00 | 156.000 |                                 | 13475  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 328       |            | 02:30:00 | 156.500 |                                 | 13493  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 329       |            | 03:00:00 | 157.000 |                                 | 13464  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 330       |            | 03:30:00 | 157.500 |                                 | 13463  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 331       |            | 04:00:00 | 158.000 |                                 | 13455  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 332       |            | 04:30:00 | 158.500 |                                 | 13485  |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |
| 333       |            | 04:30:00 | 158.500 | TRUCKS ARRIVE. SECURE WELL HEAD |        |     |         |        |      |     |                                   |                                |                |      |                |                |     |          |     |  |

ANADARKO CANADA CORP.  
A-77  
2004/03/29  
2004/04/05

## FieldNotes METER REPORT

ANADARKO ARROWHEAD  
Formation: SLAVE POINT  
Pool:  
Job Number: 3022

### Orifice Meter 1

|                          |                                      |                            |             |
|--------------------------|--------------------------------------|----------------------------|-------------|
| Meter Type:              | Orifice                              | Gas Gravity(G):            | 0.686       |
| Meter Size:              | 102.26 mm                            | CO2:                       | 10.95 %     |
| Previous Gas Production: | 0.000 10 <sup>3</sup> m <sup>3</sup> | H2S:                       | 0.00 %      |
| Tap Type:                | Flange                               | N2:                        | 6.18 %      |
| Tap Location:            | Downstream                           | Critical Temperature (Tc): | 199.72 K    |
|                          |                                      | Critical Pressure (PC):    | 4868.40 kPa |

### Produced Volume 1

|                            |                      |
|----------------------------|----------------------|
| Meter Type:                | Produced Volume      |
| Measurement Type:          | Incremental          |
| Previous Oil Production:   | 0.000 m <sup>3</sup> |
| Previous Water Production: | 0.000 m <sup>3</sup> |
| Oil Gravity:               |                      |



## GENERAL INFORMATION

### Client Information

Company: ANADARKO CANADA CORP.

Street Address:

City:

Province/State:

Country:

Postal Code:

Contact: MIKE VARGA

Phone:

E-Mail:

Fax:

### Site Information

Contact: JOE GRAVES

Phone:

250-261-4889/261-3486

E-Mail:

Fax:

### Well Information

Well Name: ANADARKO ARROWHEAD

Operator: ANADARKO CANADA CORP.

Surface Location: A-77

Downhole Location: A-77

### Test Information

Company: WESPRO PRODUCTION TESTING LTD.

Test Rep: JIM DEADY

Supervisor: TIM SCHWAGER

Test Type: SINGLE POINT FLOW TEST

Test Unit: P303

Start Date: 2004/03/29

Start Time: 14:00:00

End Date: 2004/04/05

End Time: 04:30:00

Report Date: 2004/04/15

Job Number: 3022

Prepared By: TIM SCHWAGER

Qualified By: NATALIE TOPORKOV

Remarks:



# **Anadarko Canada Corp.**

**Anadarko**

**A-77**

**Swab Test**

**Landry Formation**

**March 24 - 29, 2004**



**Start Test Date: 2004/03/24**

**Final Test Date: 2004/03/29**

# FieldNotes

## Field Measurements

**ANADARKO**  
Formation: LANDRY

**Job Number: 3022**

|           | Clock      | Cum      | Swab | Tag | Pull    | Choke                                              | Tbg    | Csg    | Gas    | Cum.                             | Inc.                           | Inc.           | Cum.  | Inc.           | Cum.           |                |                |     |          |     |  |  |  |
|-----------|------------|----------|------|-----|---------|----------------------------------------------------|--------|--------|--------|----------------------------------|--------------------------------|----------------|-------|----------------|----------------|----------------|----------------|-----|----------|-----|--|--|--|
| Date      | Time       | Time     | :    | #   | Depth   | Depth                                              | Size   | Pres   | Pres   | Rate                             | Gas                            | Fluid          | BSW   | H.C.           | H.C.           | Water          | Water          | pH  | Salinity | H2S |  |  |  |
| yyyy/mm/d | hh:mm:s    | hr       |      |     | m       | m                                                  | mm     | kPa(g) | kPa(g) | 10 <sup>3</sup> m <sup>3</sup> / | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %     | m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup> |     | ppm      | ppm |  |  |  |
| 1         | 2004/03/24 | 15:30:00 |      |     | 0.000   |                                                    |        |        |        | 0.000                            | 0.000                          | 0.00           | 0.0   | 0.00           | 0.00           | 0.00           | 0.00           |     |          |     |  |  |  |
| 2         |            | 15:30:00 |      |     | 0.000   | ARRIVE ON LOCATION. SPOT TEST VESSEL. BEGIN RIG IN |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 3         |            | 18:00:00 |      |     | 2.500   | SECURE EQUIPMENT FOR THE EVENING                   |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 4         | 2004/03/25 | 07:45:00 |      |     | 16.250  | ARRIVE ON LOCATION. WAIT ON SERVICE RIG OPERATIONS |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 5         | 2004/03/26 | 21:00:00 |      |     | 53.500  | 90' FLARE STACK ARRIVE. SPOT & STAND               |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 6         | 2004/03/27 | 07:45:00 |      |     | 64.250  | ARRIVE ON LOCATION. WAIT ON ORDERS                 |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 7         |            | 18:00:00 |      |     | 74.500  | RELEASED FOR THE EVENING. SECURE WELL & EQUIPMENT  |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 8         | 2004/03/28 | 07:30:00 |      |     | 88.000  | ARRIVE ON LOCATION                                 |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 9         |            | 09:30:00 |      |     | 90.000  | RIG UP ACID PUMPER                                 |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 10        |            | 10:20:00 |      |     | 90.833  | HOLD SAFETY MEETING                                |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 11        |            | 10:45:00 |      |     | 91.250  | PRESSURE TEST SURFACE LINES                        |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 12        |            | 11:00:00 |      |     | 91.500  | PICKLE TUBING                                      |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 13        |            | 12:00:00 |      |     | 92.500  | DIVERT FLOW TO VESSEL                              |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 14        |            | 12:15:00 |      |     | 92.750  | SHUT DOWN PUMP. CIRCULATE 4.73m³ TO VESSEL         |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 15        |            | 18:25:00 |      |     | 98.917  | START TO BACK WASH. RETURNS TO VESSEL              |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 16        |            | 19:00:00 |      |     | 99.500  | TOTAL FLUID CIRCULATED TO VESSEL = 15.20m³         |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 17        |            | 19:15:00 |      |     | 99.750  | RIG OFF HALIBURTON                                 |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 18        |            | 19:50:00 |      |     | 100.333 | SET PACKER. LAND DOGNUT & PRESSURE TEST PACKER     |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 19        |            | 20:15:00 |      |     | 100.750 | RIG UP TO SWAB                                     |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 20        |            | 20:50:00 |      | 1   | 101.333 | 463.9                                              | 50.80  |        |        |                                  |                                | 0.72           | 100.0 | 0.00           | 0.00           | 0.72           | 0.72           |     |          |     |  |  |  |
| 21        |            | 20:50:00 |      |     | 101.333 | TAG = SURFACE. TUBING = VACUUM                     |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 22        |            | 21:10:00 |      | 2   | 101.667 | 463.9                                              | 885.3  | 50.80  |        |                                  |                                | 1.62           | 100.0 | 0.00           | 0.00           | 1.62           | 2.34           | 6.0 |          |     |  |  |  |
| 23        |            | 21:10:00 |      |     | 101.667 | TUBING = VACUUM                                    |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 24        |            | 21:25:00 |      | 3   | 101.917 | 803.5                                              | 1122.4 | 50.80  |        |                                  |                                | 0.72           | 100.0 | 0.00           | 0.00           | 0.72           | 3.06           |     |          |     |  |  |  |
| 25        |            | 21:25:00 |      |     | 101.917 | TUBING = VACUUM                                    |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 26        |            | 21:40:00 |      | 4   | 102.167 | 1122.4                                             | 1494.0 | 50.80  |        |                                  |                                | 0.72           | 100.0 | 0.00           | 0.00           | 0.72           | 3.78           | 6.0 | 32000    |     |  |  |  |
| 27        |            | 21:40:00 |      |     | 102.167 | TUBING = VACUUM                                    |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |
| 28        |            | 22:00:00 |      | 5   | 102.500 | 1277.0                                             | 1635.5 | 50.80  |        |                                  |                                | 0.54           | 100.0 | 0.00           | 0.00           | 0.54           | 4.32           |     |          |     |  |  |  |
| 29        |            | 22:00:00 |      |     | 102.500 | TUBING = VACUUM. ADD SECOND SWAB CUP               |        |        |        |                                  |                                |                |       |                |                |                |                |     |          |     |  |  |  |



## FieldNotes

## Field Measurements

|           | Clock      | Cum      | Swab    | Tag                                                          | Pull   | Choke  | Tbg    | Csg                              | Gas                            | Cum.           | Inc.  | Inc.           | Cum.           | Inc.           | Cum.           |       |     |          |     |
|-----------|------------|----------|---------|--------------------------------------------------------------|--------|--------|--------|----------------------------------|--------------------------------|----------------|-------|----------------|----------------|----------------|----------------|-------|-----|----------|-----|
| Date      | Time       | Time     | #       | Depth                                                        | Depth  | Size   | Pres   | Pres                             | Rate                           | Gas            | Fluid | BSW            | H.C.           | H.C.           | Water          | Water | pH  | Salinity | H2S |
| yyyy/mm/d | hh:mm:ss   | hr       | m       | m                                                            | mm     | kPa(g) | kPa(g) | 10 <sup>3</sup> m <sup>3</sup> / | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | %     | m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup> | ppm   | ppm |          |     |
| 30        | 2004/03/28 | 22:20:00 | 102.833 | 6                                                            | 1561.2 | 1906.0 | 50.80  |                                  |                                |                | 0.90  | 100.0          | 0.00           | 0.00           | 0.90           | 5.22  | 6.0 | 28000    |     |
| 31        |            | 22:20:00 | 102.833 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 32        |            | 22:45:00 | 103.250 | 7                                                            | 1730.0 | 1980.0 | 50.80  |                                  |                                |                | 0.72  | 100.0          | 0.00           | 0.00           | 0.72           | 5.94  |     |          |     |
| 33        |            | 22:45:00 | 103.250 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 34        |            | 23:20:00 | 103.833 | 8                                                            | 1785.0 | 1980.0 | 50.80  |                                  |                                |                | 0.54  | 100.0          | 0.00           | 0.00           | 0.54           | 6.48  | 6.0 | 30000    |     |
| 35        |            | 23:20:00 | 103.833 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 36        |            | 23:45:00 | 104.250 | 9                                                            |        | 1980.0 | 50.80  |                                  |                                |                | 0.00  |                | 0.00           | 0.00           | 0.00           | 6.48  |     |          |     |
| 37        |            | 23:45:00 | 104.250 | NO TAG. DRY SWAB. TUBING = VACUUM                            |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 38        |            | 23:45:00 | 104.250 | SHUT IN & MONITOR PRESSURE                                   |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 39        | 2004/03/29 | 00:00:00 | 104.500 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 40        |            | 00:30:00 | 105.000 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 41        |            | 01:00:00 | 105.500 | 10                                                           |        | 1980.0 | 50.80  |                                  |                                |                | 0.00  |                | 0.00           | 0.00           | 0.00           | 6.48  |     |          |     |
| 42        |            | 01:00:00 | 105.500 | NO TAG. DRY SWAB. TUBING = VACUUM                            |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 43        |            | 01:30:00 | 106.000 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 44        |            | 02:00:00 | 106.500 | 11                                                           |        | 1980.0 | 50.80  |                                  |                                |                | 0.00  |                | 0.00           | 0.00           | 0.00           | 6.48  |     |          |     |
| 45        |            | 02:00:00 | 106.500 | NO TAG. DRY SWAB. TUBING = VACUUM                            |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 46        |            | 02:30:00 | 107.000 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 47        |            | 03:00:00 | 107.500 | 12                                                           |        | 1980.0 | 50.80  |                                  |                                |                | 0.00  |                | 0.00           | 0.00           | 0.00           | 6.48  |     |          |     |
| 48        |            | 03:00:00 | 107.500 | NO TAG. DRY SWAB. TUBING = VACUUM                            |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 49        |            | 03:30:00 | 108.000 | TUBING = TOO SMALL TO MEASURE                                |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 50        |            | 04:00:00 | 108.500 | 13                                                           |        | 1980.0 | 50.80  |                                  |                                |                | 0.00  |                | 0.00           | 0.00           | 0.00           | 6.48  |     |          |     |
| 51        |            | 04:00:00 | 108.500 | NO TAG. DRY SWAB. TUBING = VACUUM                            |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 52        |            | 04:30:00 | 109.000 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 53        |            | 05:00:00 | 109.500 | 14                                                           |        | 1980.0 | 50.80  |                                  |                                |                | 0.00  |                | 0.00           | 0.00           | 0.00           | 6.48  |     |          |     |
| 54        |            | 05:00:00 | 109.500 | NO TAG. DRY SWAB. TUBING = VACUUM                            |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 55        |            | 05:30:00 | 110.000 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 56        |            | 06:00:00 | 110.500 | 15                                                           |        | 1980.0 | 50.80  |                                  |                                |                | 0.00  |                | 0.00           | 0.00           | 0.00           | 6.48  |     |          |     |
| 57        |            | 06:00:00 | 110.500 | NO TAG. DRY SWAB. TUBING = VACUUM. SHUT IN & RECORD BUILD UP |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |
| 58        |            | 06:30:00 | 111.000 | TUBING = VACUUM                                              |        |        |        |                                  |                                |                |       |                |                |                |                |       |     |          |     |



**Start Test Date: 2004/03/24**

**Final Test Date: 2004/03/29**

# FieldNotes

## Field Measurements

**ANADARKO**  
Formation: LANDRY

**Job Number: 3022**

[illegible]

## GENERAL INFORMATION

### Client Information

Company: ANADARKO CANADA CORP.

Street Address:

City:

Province/State:

Country:

Postal Code:

Contact: MIKE VARGA

Phone:

E-Mail:

Fax:

### Site Information

Contact: JOE GRAVES

Phone:

E-Mail:

Fax:

### Well Information

Well Name: ANADARKO

Operator: ANADARKO CANADA CORP.

Surface Location: A-77

Downhole Location: A-77

### Test Information

Company: WESPRO PRODUCTION TESTING LTD

Test Rep: JIM DEADY

Supervisor: TIM SCHWAGER

Test Type: SWAB

Test Unit: P303

Start Date: 2004/03/24

Start Time: 15:30:00

End Date: 2004/03/29

End Time: 08:30:00

Report Date: 2004/04/12

Job Number: 3022

Prepared By: TIM SCHWAGER

Qualified By: NATALIE TOPOROV

Remarks:



COPY

Company: ANADARKO CANADA CORPORATION  
Well Name: ANADARKO EMILE LAKE  
Location: A-77  
Pool: SLAVEPOINT  
Type of Test: FLOW & BUILD UP  
                  STATIC GRADIENT  
Date of Test: 03/31/04 TO 05/21/04

Test by RAPID WIRELINE SERVICES LTD.  
Interp. by P.D.Q. SERVICES LTD.

# Subsurface Pressure Measurements

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Company: ANADARKO CANADA CORPORATION  | Well name: ANADARKO EMILE LAKE      |
| Address: CALGARY, ALBERTA             | Location: A-77                      |
| Field & Pool: EMILE LAKE / SLAVEPOINT | Status: GAS                         |
| Type of test: FLOW & BUILD UP         | Date of test: 03/31/04 TO 05/21/04  |
| Prod. Int KB: 1997.0 to 2010.0        | Prod. through: 73.0MM TUBING        |
| Elev. (CF) 624.7 (KB) 630.8           | Mid-point prod.int. KB: 2003.5      |
| Pool datum:                           | Datum depth of well KB:             |
| Tubing pres: INITIAL: N/A FIN: 14206  | Casing pres: INITIAL: N/A FIN: 4741 |
| Shut in time: 04/05/2004 00:00 HRS    | Duration of Shut in: 1114.8333 HRS  |
| Temperature at run depth: 106.598     | On/off btm: 03/31/04 / 05/21/04     |
| Deviated well: N                      | Depths corrected to TVD: Y          |

Note: All units in metric, depth in meters kb; pressure in kPaa

## TOP RECORDER

Element serial#: 90018  
 Pressure Range: 41369 KPAA  
 CAL-SCAN ELECTRONIC RECORDER  
 Latest calibration: 01/25/04  
 Reading Interval: 30 SECONDS  
 Gauge started: 03/31/04 15:57  
 Gauge stopped: 05/21/04 11:44  
 Run depth (KB): 1983.1

## BOTTOM RECORDER

Element serial#: 90019  
 Pressure range: 41369 KPAA  
 CAL-SCAN ELECTRONIC RECORDER  
 Latest calibration: 01/25/04  
 Reading Interval: 30 SECONDS  
 Gauge started: 03/31/04 15:56:30  
 Gauge stopped: 05/21/04 11:44  
 Run depth (KB): 1983.6

## TOP RECORDER

| COMMENT<br>REAL TIME | ACCUM.<br>D/T HOURS | EVENT<br>D/T HOURS  | TEMPERATURE<br>RUNDEPTH | PRESSURE<br>RUNDEPTH | PRESSURE<br>MIDPNT |
|----------------------|---------------------|---------------------|-------------------------|----------------------|--------------------|
|                      | 03/31/2004 16:29:00 | ON BOTTOM           |                         |                      |                    |
| 3/31/2004 16:29:00   | 0.0000              | 0.0000              | 77.234                  | 17147.02             |                    |
| 3/31/2004 18:31:30   | 2.0417              | 2.0417              | 95.692                  | 17161.09             |                    |
|                      | 03/31/2004 18:31:30 | OPENED WELL TO FLOW |                         |                      |                    |
| 3/31/2004 18:31:30   | 2.0417              | 0.0000              | 95.692                  | 17161.09             |                    |
| 3/31/2004 18:32:00   | 2.0500              | 0.0083              | 95.782                  | 16766.37             |                    |
| 3/31/2004 18:32:30   | 2.0583              | 0.0167              | 96.247                  | 16446.10             |                    |
| 3/31/2004 18:35:00   | 2.1000              | 0.0583              | 99.373                  | 16194.92             |                    |
| 3/31/2004 19:07:30   | 2.6417              | 0.6000              | 103.181                 | 16505.78             |                    |
| 3/31/2004 19:18:30   | 2.8250              | 0.7833              | 103.337                 | 16254.18             |                    |
| 3/31/2004 20:34:00   | 4.0833              | 2.0417              | 103.937                 | 16527.04             |                    |
| 3/31/2004 21:39:30   | 5.1750              | 3.1333              | 104.627                 | 16782.97             |                    |
| 3/31/2004 22:06:00   | 5.6167              | 3.5750              | 104.583                 | 16518.02             |                    |
| 4/1/2004 04:29:00    | 12.0000             | 9.9583              | 105.307                 | 16276.59             |                    |
| 4/1/2004 07:59:30    | 15.5083             | 13.4667             | 105.756                 | 16526.75             |                    |
| 4/1/2004 16:29:00    | 24.0000             | 21.9583             | 105.980                 | 16456.78             |                    |
| 4/1/2004 21:01:00    | 28.5333             | 26.4917             | 105.181                 | 16706.96             |                    |
| 4/2/2004 04:29:00    | 36.0000             | 33.9583             | 103.672                 | 16781.73             |                    |
| 4/2/2004 12:48:00    | 44.3167             | 42.2750             | 104.289                 | 16430.62             |                    |
| 4/2/2004 12:48:30    | 44.3250             | 42.2833             | 104.356                 | 16097.67             |                    |
| 4/2/2004 12:53:30    | 44.4083             | 42.3667             | 105.121                 | 16364.72             |                    |



Company: ANADARKO CANADA CORPORATION  
 Date of test: 03/31/04 TO 05/21/04  
 Element serial#: 90018

Well name: ANADARKO EMILE LAKE  
 Location: A-77  
 Run Depth (KB): 1983.1

# TOP RECORDER

| COMMENT<br>REAL TIME                          | ACCUM.<br>D/T HOURS | EVENT<br>D/T HOURS | TEMPERATURE<br>RUNDEPTH | PRESSURE<br>RUNDEPTH | PRESSURE<br>MIDPNT |
|-----------------------------------------------|---------------------|--------------------|-------------------------|----------------------|--------------------|
| 4/2/2004 12:58:30                             | 44.4917             | 42.4500            | 105.418                 | 16054.18             |                    |
| 4/2/2004 13:05:00                             | 44.6000             | 42.5583            | 105.129                 | 15802.29             |                    |
| 4/2/2004 13:10:00                             | 44.6833             | 42.6417            | 105.184                 | 16147.57             |                    |
| 4/2/2004 16:29:00                             | 48.0000             | 45.9583            | 105.786                 | 16029.60             |                    |
| 4/3/2004 04:29:00                             | 60.0000             | 57.9583            | 105.952                 | 15798.58             |                    |
| 4/3/2004 16:29:00                             | 72.0000             | 69.9583            | 105.988                 | 15596.43             |                    |
| 4/4/2004 04:29:00                             | 84.0000             | 81.9583            | 106.008                 | 15417.61             |                    |
| 4/4/2004 16:29:00                             | 96.0000             | 93.9583            | 106.037                 | 15261.88             |                    |
| 4/5/2004 00:00:00                             | 103.5167            | 101.4750           | 106.047                 | 15165.79             |                    |
| 04/05/2004 00:00:00 SHUT WELL IN FOR BUILD UP |                     |                    |                         |                      |                    |
| 4/5/2004 00:00:00                             | 103.5167            | 0.0000             | 106.047                 | 15165.79             |                    |
| 4/5/2004 00:01:00                             | 103.5333            | 0.0167             | 106.079                 | 15734.84             |                    |
| 4/5/2004 04:29:00                             | 108.0000            | 4.4833             | 105.596                 | 15861.86             |                    |
| 4/5/2004 16:29:00                             | 120.0000            | 16.4833            | 105.332                 | 15999.75             |                    |
| 4/6/2004 04:29:00                             | 132.0000            | 28.4833            | 105.320                 | 16097.17             |                    |
| 4/6/2004 16:29:00                             | 144.0000            | 40.4833            | 105.360                 | 16176.61             |                    |
| 4/7/2004 04:29:00                             | 156.0000            | 52.4833            | 105.413                 | 16245.60             |                    |
| 4/7/2004 16:29:00                             | 168.0000            | 64.4833            | 105.464                 | 16306.55             |                    |
| 4/8/2004 04:29:00                             | 180.0000            | 76.4833            | 105.518                 | 16360.56             |                    |
| 4/8/2004 16:29:00                             | 192.0000            | 88.4833            | 105.567                 | 16409.04             |                    |
| 4/9/2004 04:29:00                             | 204.0000            | 100.4833           | 105.618                 | 16452.27             |                    |
| 4/9/2004 16:29:00                             | 216.0000            | 112.4833           | 105.659                 | 16490.80             |                    |
| 4/10/2004 04:29:00                            | 228.0000            | 124.4833           | 105.701                 | 16524.88             |                    |
| 4/10/2004 16:29:00                            | 240.0000            | 136.4833           | 105.739                 | 16556.09             |                    |
| 4/11/2004 04:29:00                            | 252.0000            | 148.4833           | 105.778                 | 16583.99             |                    |
| 4/11/2004 16:29:00                            | 264.0000            | 160.4833           | 105.815                 | 16609.11             |                    |
| 4/12/2004 04:29:00                            | 276.0000            | 172.4833           | 105.847                 | 16631.20             |                    |
| 4/12/2004 16:29:00                            | 288.0000            | 184.4833           | 105.881                 | 16651.50             |                    |
| 4/13/2004 04:29:00                            | 300.0000            | 196.4833           | 105.906                 | 16669.64             |                    |
| 4/13/2004 16:29:00                            | 312.0000            | 208.4833           | 105.937                 | 16686.01             |                    |
| 4/14/2004 04:29:00                            | 324.0000            | 220.4833           | 105.968                 | 16700.89             |                    |
| 4/14/2004 16:29:00                            | 336.0000            | 232.4833           | 105.990                 | 16714.31             |                    |
| 4/15/2004 04:29:00                            | 348.0000            | 244.4833           | 106.014                 | 16726.09             |                    |
| 4/15/2004 16:29:00                            | 360.0000            | 256.4833           | 106.041                 | 16737.14             |                    |
| 4/16/2004 04:29:00                            | 372.0000            | 268.4833           | 106.066                 | 16747.04             |                    |
| 4/16/2004 16:29:00                            | 384.0000            | 280.4833           | 106.086                 | 16756.15             |                    |
| 4/17/2004 04:29:00                            | 396.0000            | 292.4833           | 106.103                 | 16764.16             |                    |
| 4/17/2004 16:29:00                            | 408.0000            | 304.4833           | 106.126                 | 16771.79             |                    |
| 4/18/2004 04:29:00                            | 420.0000            | 316.4833           | 106.144                 | 16778.72             |                    |
| 4/18/2004 16:29:00                            | 432.0000            | 328.4833           | 106.165                 | 16785.15             |                    |
| 4/19/2004 04:29:00                            | 444.0000            | 340.4833           | 106.181                 | 16791.13             |                    |
| 4/19/2004 16:29:00                            | 456.0000            | 352.4833           | 106.191                 | 16796.19             |                    |
| 4/20/2004 04:29:00                            | 468.0000            | 364.4833           | 106.207                 | 16801.45             |                    |
| 4/20/2004 16:29:00                            | 480.0000            | 376.4833           | 106.223                 | 16806.27             |                    |
| 4/21/2004 04:29:00                            | 492.0000            | 388.4833           | 106.238                 | 16810.59             |                    |
| 4/21/2004 16:29:00                            | 504.0000            | 400.4833           | 106.250                 | 16815.06             |                    |
| 4/22/2004 04:29:00                            | 516.0000            | 412.4833           | 106.260                 | 16819.00             |                    |



Company: ANADARKO CANADA CORPORATION  
Date of test: 03/31/04 TO 05/21/04  
Element serial#: 90018

Well name: ANADARKO EMILE LAKE  
Location: A-77  
Run Depth (KB): 1983.1

TOP RECORDER

| COMMENT<br>REAL TIME | ACCUM.<br>D/T HOURS | EVENT<br>D/T HOURS | TEMPERATURE<br>RUNDEPTH | PRESSURE<br>RUNDEPTH | PRESSURE<br>MIDPNT |
|----------------------|---------------------|--------------------|-------------------------|----------------------|--------------------|
| 4/22/2004 16:29:00   | 528.0000            | 424.4833           | 106.277                 | 16823.07             |                    |
| 4/23/2004 04:29:00   | 540.0000            | 436.4833           | 106.287                 | 16826.63             |                    |
| 4/23/2004 16:29:00   | 552.0000            | 448.4833           | 106.298                 | 16830.47             |                    |
| 4/24/2004 04:29:00   | 564.0000            | 460.4833           | 106.304                 | 16833.58             |                    |
| 4/24/2004 16:29:00   | 576.0000            | 472.4833           | 106.315                 | 16836.94             |                    |
| 4/25/2004 04:29:00   | 588.0000            | 484.4833           | 106.325                 | 16840.17             |                    |
| 4/25/2004 16:29:00   | 600.0000            | 496.4833           | 106.333                 | 16843.36             |                    |
| 4/26/2004 04:29:00   | 612.0000            | 508.4833           | 106.347                 | 16846.12             |                    |
| 4/26/2004 16:29:00   | 624.0000            | 520.4833           | 106.357                 | 16849.00             |                    |
| 4/27/2004 04:29:00   | 636.0000            | 532.4833           | 106.364                 | 16850.78             |                    |
| 4/27/2004 16:29:00   | 648.0000            | 544.4833           | 106.371                 | 16853.88             |                    |
| 4/28/2004 04:29:00   | 660.0000            | 556.4833           | 106.383                 | 16856.53             |                    |
| 4/28/2004 16:29:00   | 672.0000            | 568.4833           | 106.383                 | 16857.81             |                    |
| 4/29/2004 04:29:00   | 684.0000            | 580.4833           | 106.398                 | 16860.22             |                    |
| 4/29/2004 16:29:00   | 696.0000            | 592.4833           | 106.405                 | 16862.41             |                    |
| 4/30/2004 04:29:00   | 708.0000            | 604.4833           | 106.410                 | 16864.30             |                    |
| 4/30/2004 16:29:00   | 720.0000            | 616.4833           | 106.415                 | 16866.34             |                    |
| 5/1/2004 04:29:00    | 732.0000            | 628.4833           | 106.426                 | 16868.63             |                    |
| 5/1/2004 16:29:00    | 744.0000            | 640.4833           | 106.428                 | 16870.25             |                    |
| 5/2/2004 04:29:00    | 756.0000            | 652.4833           | 106.440                 | 16872.17             |                    |
| 5/2/2004 16:29:00    | 768.0000            | 664.4833           | 106.448                 | 16874.19             |                    |
| 5/3/2004 04:29:00    | 780.0000            | 676.4833           | 106.455                 | 16876.10             |                    |
| 5/3/2004 16:29:00    | 792.0000            | 688.4833           | 106.458                 | 16877.76             |                    |
| 5/4/2004 04:29:00    | 804.0000            | 700.4833           | 106.468                 | 16879.62             |                    |
| 5/4/2004 16:29:00    | 816.0000            | 712.4833           | 106.476                 | 16881.12             |                    |
| 5/5/2004 04:29:00    | 828.0000            | 724.4833           | 106.480                 | 16882.82             |                    |
| 5/5/2004 16:29:00    | 840.0000            | 736.4833           | 106.483                 | 16884.34             |                    |
| 5/6/2004 04:29:00    | 852.0000            | 748.4833           | 106.490                 | 16886.18             |                    |
| 5/6/2004 16:29:00    | 864.0000            | 760.4833           | 106.495                 | 16887.69             |                    |
| 5/7/2004 04:29:00    | 876.0000            | 772.4833           | 106.499                 | 16889.55             |                    |
| 5/7/2004 16:29:00    | 888.0000            | 784.4833           | 106.506                 | 16890.69             |                    |
| 5/8/2004 04:29:00    | 900.0000            | 796.4833           | 106.509                 | 16892.41             |                    |
| 5/8/2004 16:29:00    | 912.0000            | 808.4833           | 106.514                 | 16895.04             |                    |
| 5/9/2004 04:29:00    | 924.0000            | 820.4833           | 106.517                 | 16896.27             |                    |
| 5/9/2004 16:29:00    | 936.0000            | 832.4833           | 106.519                 | 16895.66             |                    |
| 5/10/2004 04:29:00   | 948.0000            | 844.4833           | 106.531                 | 16897.15             |                    |
| 5/10/2004 16:29:00   | 960.0000            | 856.4833           | 106.531                 | 16898.15             |                    |
| 5/11/2004 04:29:00   | 972.0000            | 868.4833           | 106.534                 | 16899.18             |                    |
| 5/11/2004 16:29:00   | 984.0000            | 880.4833           | 106.540                 | 16900.61             |                    |
| 5/12/2004 04:29:00   | 996.0000            | 892.4833           | 106.545                 | 16901.58             |                    |
| 5/12/2004 16:29:00   | 1008.0000           | 904.4833           | 106.546                 | 16902.67             |                    |
| 5/13/2004 04:29:00   | 1020.0000           | 916.4833           | 106.549                 | 16903.11             |                    |
| 5/13/2004 16:29:00   | 1032.0000           | 928.4833           | 106.546                 | 16904.21             |                    |
| 5/14/2004 04:29:00   | 1044.0000           | 940.4833           | 106.544                 | 16904.34             |                    |
| 5/14/2004 16:29:00   | 1056.0000           | 952.4833           | 106.531                 | 16904.47             |                    |
| 5/15/2004 04:29:00   | 1068.0000           | 964.4833           | 106.514                 | 16904.23             |                    |
| 5/15/2004 16:29:00   | 1080.0000           | 976.4833           | 106.516                 | 16904.77             |                    |



Company: ANADARKO CANADA CORPORATION  
Date of test: 03/31/04 TO 05/21/04  
Element serial#: 90018

Well name: ANADARKO EMILE LAKE  
Location: A-77  
Run Depth (KB): 1983.1

TOP RECORDER

| COMMENT<br>REAL TIME | ACCUM.<br>D/T HOURS | EVENT<br>D/T HOURS | TEMPERATURE<br>RUNDEPTH | PRESSURE<br>RUNDEPTH | PRESSURE<br>MIDPNT |
|----------------------|---------------------|--------------------|-------------------------|----------------------|--------------------|
| 5/16/2004 04:29:00   | 1092.0000           | 988.4833           | 106.509                 | 16905.71             |                    |
| 5/16/2004 16:29:00   | 1104.0000           | 1000.4833          | 106.508                 | 16906.19             |                    |
| 5/17/2004 04:29:00   | 1116.0000           | 1012.4833          | 106.512                 | 16906.87             |                    |
| 5/17/2004 16:29:00   | 1128.0000           | 1024.4834          | 106.511                 | 16907.11             |                    |
| 5/18/2004 04:29:00   | 1140.0000           | 1036.4834          | 106.516                 | 16907.32             |                    |
| 5/18/2004 16:29:00   | 1152.0000           | 1048.4834          | 106.516                 | 16907.76             |                    |
| 5/19/2004 04:29:00   | 1164.0000           | 1060.4834          | 106.519                 | 16908.48             |                    |
| 5/19/2004 16:29:00   | 1176.0000           | 1072.4834          | 106.529                 | 16909.56             |                    |
| 5/20/2004 04:29:00   | 1188.0000           | 1084.4834          | 106.528                 | 16910.34             |                    |
| 5/20/2004 16:29:00   | 1200.0000           | 1096.4834          | 106.526                 | 16910.10             |                    |
| 5/21/2004 04:29:00   | 1212.0000           | 1108.4834          | 106.526                 | 16911.40             |                    |
| 5/21/2004 10:50:00   | 1218.3500           | 1114.8334          | 106.536                 | 16911.06             |                    |
|                      | 05/21/2004 10:50:00 | END OF BUILD       | UP                      |                      |                    |
| 5/21/2004 10:50:00   | 1218.3500           | 0.0000             | 106.536                 | 16911.06             |                    |
| 5/21/2004 11:04:00   | 1218.5833           | 0.2333             | 106.542                 | 16915.76             |                    |
|                      | 05/21/2004 11:04:00 | OFF BOTTOM         |                         |                      |                    |
| 5/21/2004 11:04:00   | 1218.5833           | 0.0000             | 106.542                 | 16915.76             |                    |

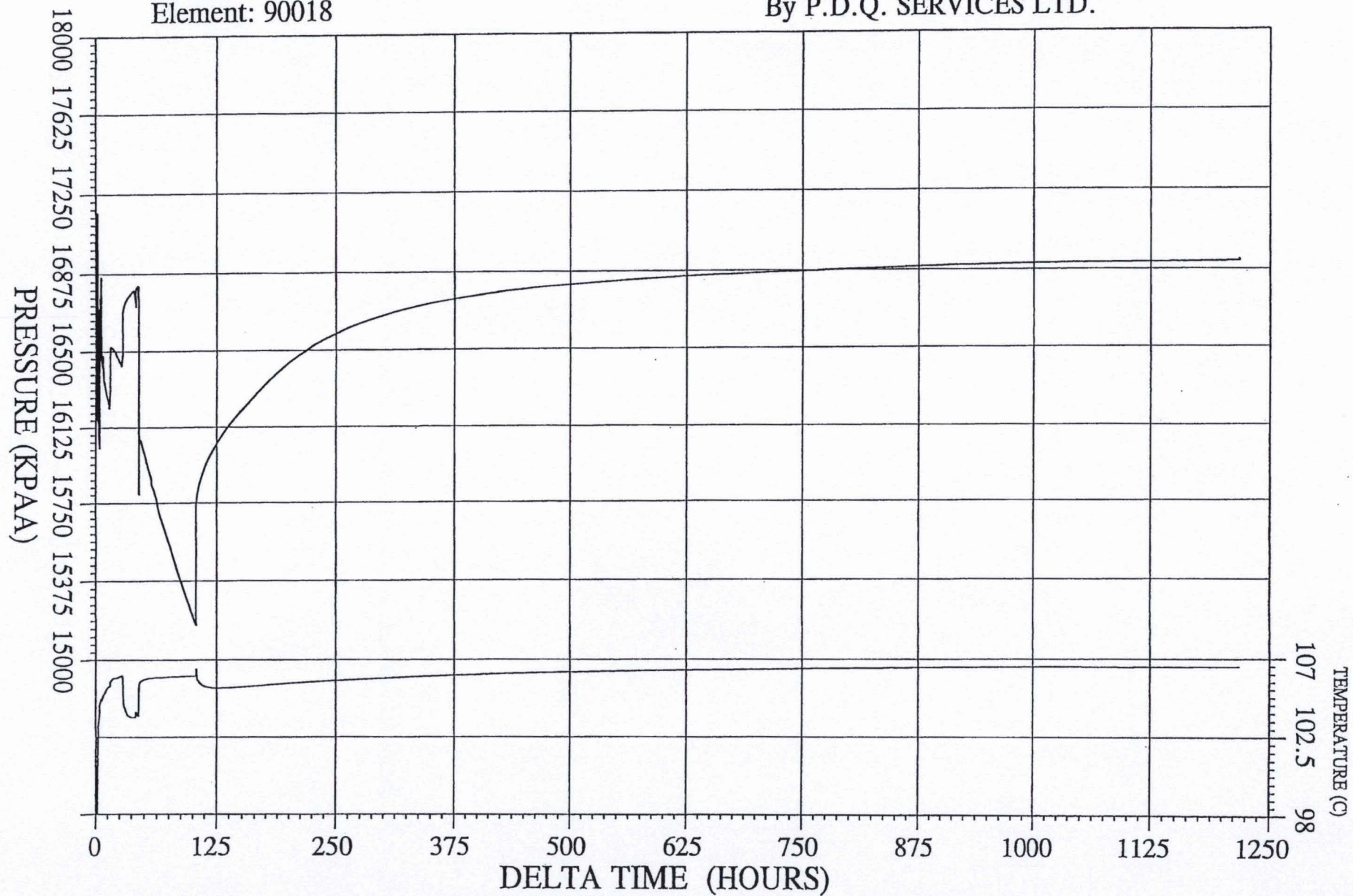
Remarks:

PRESSURES DO NOT APPEAR ACCURATE ON BOTTOM GAUGE #90019 DURING PART OF THE BUILD-UP DUE TO POSSIBLE TRANSDUCER MALFUNCTION.

Test by: RAPID

Interpretation by P.D.Q. SERVICES LTD.

Company: ANADARKO CANADA CORPORATION Well name: ANADARKO EMILE LAKE  
Location: A-77 Date of test: 03/31/04 TO 05/21/04  
Element: 90018 By P.D.Q. SERVICES LTD.





# Subsurface Pressure Measurements

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Company: ANADARKO CANADA CORPORATION  | Well name: ANADARKO EMILE LAKE     |
| Address: CALGARY, ALBERTA             | Location: A-77                     |
| Field & Pool: EMILE LAKE / SLAVEPOINT | Status: GAS                        |
| Type of test: FLOW & BUILD UP         | Date of test: 03/31/04 TO 05/21/04 |
| Prod. Int KB: 1997.0 to 2010.0        | Prod. through: 73.0MM TUBING       |
| Elev. (CF) 624.7 (KB) 630.8           | Mid-point prod.int. KB: 2003.5     |
| Pool datum:                           | Datum depth of well KB:            |

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| Tubing pres: INITIAL: N/A FIN: 14206 | Casing pres: INITIAL: N/A FIN: 4741 |
| Shut in time: 04/05/2004 00:00 HRS   | Duration of Shut in: 1114.8333 HRS  |
| Temperature at run depth: 106.598    | On/off btm: 03/31/04 / 05/21/04     |
| Deviated well: N                     | Depths corrected to TVD: Y          |

Note: All units in metric, depth in meters kb; pressure in kPaa

## TOP RECORDER

Element serial#: 90018  
 Pressure Range: 41369 KPAA  
 CAL-SCAN ELECTRONIC RECORDER  
 Latest calibration: 01/25/04  
 Reading Interval: 30 SECONDS  
 Gauge started: 03/31/04 15:57  
 Gauge stopped: 05/21/04 11:44  
 Run depth (KB): 1983.1

## BOTTOM RECORDER

Element serial#: 90018  
 Pressure range: 41369 KPAA  
 CAL-SCAN ELECTRONIC RECORDER  
 Latest calibration: 01/25/04  
 Reading Interval: 30 SECONDS  
 Gauge started: 03/31/04 15:56:30  
 Gauge stopped: 05/21/04 11:44  
 Run depth (KB): 1983.6

## BOTTOM RECORDER

| COMMENT<br>REAL TIME | ACCUM.<br>D/T HOURS | EVENT<br>D/T HOURS  | TEMPERATURE<br>RUNDEPTH | PRESSURE<br>RUNDEPTH | PRESSURE<br>MIDPNT |
|----------------------|---------------------|---------------------|-------------------------|----------------------|--------------------|
|                      | 03/31/2004 16:29:00 | ON BOTTOM           |                         |                      |                    |
| 3/31/2004 16:29:00   | 0.0000              | 0.0000              | 82.109                  | 17144.52             |                    |
| 3/31/2004 18:31:30   | 2.0417              | 2.0417              | 95.982                  | 16797.12             |                    |
|                      | 03/31/2004 18:31:30 | OPENED WELL TO FLOW |                         |                      |                    |
| 3/31/2004 18:31:30   | 2.0417              | 0.0000              | 95.982                  | 16797.12             |                    |
| 3/31/2004 18:32:00   | 2.0500              | 0.0083              | 96.480                  | 16459.50             |                    |
| 3/31/2004 18:34:30   | 2.0917              | 0.0500              | 99.586                  | 16200.82             |                    |
| 3/31/2004 19:07:00   | 2.6333              | 0.5917              | 103.376                 | 16506.40             |                    |
| 3/31/2004 19:18:30   | 2.8250              | 0.7833              | 103.535                 | 16231.10             |                    |
| 3/31/2004 20:33:30   | 4.0750              | 2.0333              | 104.178                 | 16529.34             |                    |
| 3/31/2004 21:39:00   | 5.1667              | 3.1250              | 104.725                 | 16789.34             |                    |
| 3/31/2004 22:05:30   | 5.6083              | 3.5667              | 104.694                 | 16527.50             |                    |
| 4/1/2004 04:29:00    | 12.0000             | 9.9583              | 105.475                 | 16284.20             |                    |
| 4/1/2004 16:29:00    | 24.0000             | 21.9583             | 106.063                 | 16463.33             |                    |
| 4/1/2004 21:00:00    | 28.5167             | 26.4750             | 105.311                 | 16713.34             |                    |
| 4/2/2004 04:29:00    | 36.0000             | 33.9583             | 103.840                 | 16788.29             |                    |
| 4/2/2004 12:47:30    | 44.3083             | 42.2667             | 104.352                 | 16527.15             |                    |
| 4/2/2004 12:48:00    | 44.3167             | 42.2750             | 104.431                 | 16141.98             |                    |
| 4/2/2004 12:53:30    | 44.4083             | 42.3667             | 105.327                 | 16397.15             |                    |
| 4/2/2004 12:58:00    | 44.4833             | 42.4417             | 105.568                 | 16095.79             |                    |
| 4/2/2004 13:01:30    | 44.5417             | 42.5000             | 105.413                 | 15840.39             |                    |



Company: ANADARKO CANADA CORPORATION  
 Date of test: 03/31/04 TO 05/21/04  
 Element serial#: 90018

Well name: ANADARKO EMILE LAKE  
 Location: A-77  
 Run Depth (KB): 1983.6

# BOTTOM RECORDER

| COMMENT<br>REAL TIME                          | ACCUM.<br>D/T HOURS | EVENT<br>D/T HOURS | TEMPERATURE<br>RUNDEPTH | PRESSURE<br>RUNDEPTH | PRESSURE<br>MIDPNT |
|-----------------------------------------------|---------------------|--------------------|-------------------------|----------------------|--------------------|
| 4/2/2004 13:09:30                             | 44.6750             | 42.6333            | 105.466                 | 16129.52             |                    |
| 4/2/2004 16:29:00                             | 48.0000             | 45.9583            | 105.983                 | 16035.77             |                    |
| 4/3/2004 04:29:00                             | 60.0000             | 57.9583            | 106.134                 | 15804.55             |                    |
| 4/3/2004 16:29:00                             | 72.0000             | 69.9583            | 106.173                 | 15602.31             |                    |
| 4/4/2004 04:29:00                             | 84.0000             | 81.9583            | 106.197                 | 15423.82             |                    |
| 4/4/2004 16:29:00                             | 96.0000             | 93.9583            | 106.223                 | 15267.25             |                    |
| 4/5/2004 00:00:00                             | 103.5167            | 101.4750           | 106.234                 | 15171.15             |                    |
| 04/05/2004 00:00:00 SHUT WELL IN FOR BUILD UP |                     |                    |                         |                      |                    |
| 4/5/2004 00:00:00                             | 103.5167            | 0.0000             | 106.234                 | 15171.15             |                    |
| 4/5/2004 00:00:30                             | 103.5250            | 0.0083             | 106.243                 | 15687.04             |                    |
| 4/5/2004 04:29:00                             | 108.0000            | 4.4833             | 105.751                 | 15867.39             |                    |
| 4/5/2004 16:29:00                             | 120.0000            | 16.4833            | 105.492                 | 16005.08             |                    |
| 4/6/2004 04:29:00                             | 132.0000            | 28.4833            | 105.466                 | 16102.41             |                    |
| 4/6/2004 16:29:00                             | 144.0000            | 40.4833            | 105.490                 | 16181.90             |                    |
| 4/7/2004 04:29:00                             | 156.0000            | 52.4833            | 105.526                 | 16250.62             |                    |
| 4/7/2004 16:29:00                             | 168.0000            | 64.4833            | 105.568                 | 16311.37             |                    |
| 4/8/2004 04:29:00                             | 180.0000            | 76.4833            | 105.611                 | 16365.25             |                    |
| 4/8/2004 16:29:00                             | 192.0000            | 88.4833            | 105.660                 | 16413.29             |                    |
| 4/9/2004 04:29:00                             | 204.0000            | 100.4833           | 105.705                 | 16456.28             |                    |
| 4/9/2004 16:29:00                             | 216.0000            | 112.4833           | 105.744                 | 16494.46             |                    |
| 4/10/2004 04:29:00                            | 228.0000            | 124.4833           | 105.784                 | 16528.46             |                    |
| 4/10/2004 16:29:00                            | 240.0000            | 136.4833           | 105.820                 | 16559.12             |                    |
| 4/11/2004 04:29:00                            | 252.0000            | 148.4833           | 105.855                 | 16586.81             |                    |
| 4/11/2004 16:29:00                            | 264.0000            | 160.4833           | 105.891                 | 16611.02             |                    |
| 4/12/2004 04:29:00                            | 276.0000            | 172.4833           | 105.917                 | 16630.66             |                    |
| 4/12/2004 16:29:00                            | 288.0000            | 184.4833           | 105.949                 | 16651.93             |                    |
| 4/13/2004 04:29:00                            | 300.0000            | 196.4833           | 105.972                 | 16669.99             |                    |
| 4/13/2004 16:29:00                            | 312.0000            | 208.4833           | 105.997                 | 16685.50             |                    |
| 4/14/2004 04:29:00                            | 324.0000            | 220.4833           | 106.024                 | 16700.86             |                    |
| 4/14/2004 16:29:00                            | 336.0000            | 232.4833           | 106.052                 | 16713.70             |                    |
| 4/15/2004 04:29:00                            | 348.0000            | 244.4833           | 106.077                 | 16725.00             |                    |
| 4/15/2004 16:29:00                            | 360.0000            | 256.4833           | 106.093                 | 16735.01             |                    |
| 4/16/2004 04:29:00                            | 372.0000            | 268.4833           | 106.120                 | 16745.29             |                    |
| 4/16/2004 16:29:00                            | 384.0000            | 280.4833           | 106.141                 | 16753.74             |                    |
| 4/17/2004 04:29:00                            | 396.0000            | 292.4833           | 106.158                 | 16761.46             |                    |
| 4/17/2004 16:29:00                            | 408.0000            | 304.4833           | 106.182                 | 16768.65             |                    |
| 4/18/2004 04:29:00                            | 420.0000            | 316.4833           | 106.200                 | 16774.93             |                    |
| 4/18/2004 16:29:00                            | 432.0000            | 328.4833           | 106.222                 | 16780.96             |                    |
| 4/19/2004 04:29:00                            | 444.0000            | 340.4833           | 106.239                 | 16785.38             |                    |
| 4/19/2004 16:29:00                            | 456.0000            | 352.4833           | 106.253                 | 16791.00             |                    |
| 4/20/2004 04:29:00                            | 468.0000            | 364.4833           | 106.263                 | 16795.80             |                    |
| 4/20/2004 16:29:00                            | 480.0000            | 376.4833           | 106.280                 | 16800.20             |                    |
| 4/21/2004 04:29:00                            | 492.0000            | 388.4833           | 106.299                 | 16804.05             |                    |
| 4/21/2004 16:29:00                            | 504.0000            | 400.4833           | 106.311                 | 16807.77             |                    |
| 4/22/2004 04:29:00                            | 516.0000            | 412.4833           | 106.313                 | 16811.00             |                    |
| 4/22/2004 16:29:00                            | 528.0000            | 424.4833           | 106.324                 | 16814.31             |                    |
| 4/23/2004 04:29:00                            | 540.0000            | 436.4833           | 106.331                 | 16817.45             |                    |



Company: ANADARKO CANADA CORPORATION  
Date of test: 03/31/04 TO 05/21/04  
Element serial#: 90018

Well name: ANADARKO EMILE LAKE  
Location: A-77  
Run Depth (KB): 1983.6

BOTTOM RECORDER

| COMMENT<br>REAL TIME | ACCUM.<br>D/T HOURS | EVENT<br>D/T HOURS | TEMPERATURE<br>RUNDEPTH | PRESSURE<br>RUNDEPTH | PRESSURE<br>MIDPNT |
|----------------------|---------------------|--------------------|-------------------------|----------------------|--------------------|
| 4/23/2004 16:29:00   | 552.0000            | 448.4833           | 106.338                 | 16820.31             |                    |
| 4/24/2004 04:29:00   | 564.0000            | 460.4833           | 106.344                 | 16823.14             |                    |
| 4/24/2004 16:29:00   | 576.0000            | 472.4833           | 106.350                 | 16825.53             |                    |
| 4/25/2004 04:29:00   | 588.0000            | 484.4833           | 106.355                 | 16828.12             |                    |
| 4/25/2004 16:29:00   | 600.0000            | 496.4833           | 106.355                 | 16829.96             |                    |
| 4/26/2004 04:29:00   | 612.0000            | 508.4833           | 106.361                 | 16832.38             |                    |
| 4/26/2004 16:29:00   | 624.0000            | 520.4833           | 106.366                 | 16834.40             |                    |
| 4/27/2004 04:29:00   | 636.0000            | 532.4833           | 106.369                 | 16836.56             |                    |
| 4/27/2004 16:29:00   | 648.0000            | 544.4833           | 106.378                 | 16838.45             |                    |
| 4/28/2004 04:29:00   | 660.0000            | 556.4833           | 106.386                 | 16840.93             |                    |
| 4/28/2004 16:29:00   | 672.0000            | 568.4833           | 106.388                 | 16842.40             |                    |
| 4/29/2004 04:29:00   | 684.0000            | 580.4833           | 106.398                 | 16844.58             |                    |
| 4/29/2004 16:29:00   | 696.0000            | 592.4833           | 106.402                 | 16846.49             |                    |
| 4/30/2004 04:29:00   | 708.0000            | 604.4833           | 106.411                 | 16848.36             |                    |
| 4/30/2004 16:29:00   | 720.0000            | 616.4833           | 106.417                 | 16849.95             |                    |
| 5/1/2004 04:29:00    | 732.0000            | 628.4833           | 106.426                 | 16851.80             |                    |
| 5/1/2004 16:29:00    | 744.0000            | 640.4833           | 106.427                 | 16853.25             |                    |
| 5/2/2004 04:29:00    | 756.0000            | 652.4833           | 106.431                 | 16854.89             |                    |
| 5/2/2004 16:29:00    | 768.0000            | 664.4833           | 106.440                 | 16856.63             |                    |
| 5/3/2004 04:29:00    | 780.0000            | 676.4833           | 106.448                 | 16858.08             |                    |
| 5/3/2004 16:29:00    | 792.0000            | 688.4833           | 106.453                 | 16859.86             |                    |
| 5/4/2004 04:29:00    | 804.0000            | 700.4833           | 106.463                 | 16861.29             |                    |
| 5/4/2004 16:29:00    | 816.0000            | 712.4833           | 106.471                 | 16862.84             |                    |
| 5/5/2004 04:29:00    | 828.0000            | 724.4833           | 106.479                 | 16864.38             |                    |
| 5/5/2004 16:29:00    | 840.0000            | 736.4833           | 106.477                 | 16865.77             |                    |
| 5/6/2004 04:29:00    | 852.0000            | 748.4833           | 106.488                 | 16867.35             |                    |
| 5/6/2004 16:29:00    | 864.0000            | 760.4833           | 106.493                 | 16868.83             |                    |
| 5/7/2004 04:29:00    | 876.0000            | 772.4833           | 106.498                 | 16870.32             |                    |
| 5/7/2004 16:29:00    | 888.0000            | 784.4833           | 106.500                 | 16871.37             |                    |
| 5/8/2004 04:29:00    | 900.0000            | 796.4833           | 106.508                 | 16873.39             |                    |
| 5/8/2004 16:29:00    | 912.0000            | 808.4833           | 106.514                 | 17067.37             |                    |
| 5/9/2004 04:29:00    | 924.0000            | 820.4833           | 106.522                 | 17280.24             |                    |
| 5/9/2004 16:29:00    | 936.0000            | 832.4833           | 106.524                 | 17115.02             |                    |
| 5/10/2004 04:29:00   | 948.0000            | 844.4833           | 106.529                 | 17237.18             |                    |
| 5/10/2004 16:29:00   | 960.0000            | 856.4833           | 106.535                 | 17123.30             |                    |
| 5/11/2004 04:29:00   | 972.0000            | 868.4833           | 106.538                 | 17228.01             |                    |
| 5/11/2004 16:29:00   | 984.0000            | 880.4833           | 106.540                 | 17458.93             |                    |
| 5/11/2004 22:18:30   | 989.8250            | 886.3083           | 106.542                 | 17208.50             |                    |
| 5/12/2004 04:29:00   | 996.0000            | 892.4833           | 106.544                 | 17258.70             |                    |
| 5/12/2004 16:29:00   | 1008.0000           | 904.4833           | 106.551                 | 17171.25             |                    |
| 5/13/2004 04:29:00   | 1020.0000           | 916.4833           | 106.557                 | 17207.56             |                    |
| 5/13/2004 12:53:00   | 1028.4000           | 924.8834           | 106.554                 | 16957.40             |                    |
| 5/13/2004 16:29:00   | 1032.0000           | 928.4833           | 106.564                 | 16952.45             |                    |
| 5/14/2004 04:29:00   | 1044.0000           | 940.4833           | 106.558                 | 16942.60             |                    |
| 5/14/2004 16:29:00   | 1056.0000           | 952.4833           | 106.565                 | 16928.73             |                    |
| 5/15/2004 04:29:00   | 1068.0000           | 964.4833           | 106.569                 | 16919.53             |                    |
| 5/15/2004 16:29:00   | 1080.0000           | 976.4833           | 106.567                 | 16905.00             |                    |

Company: ANADARKO CANADA CORPORATION  
Date of test: 03/31/04 TO 05/21/04  
Element serial#: 90018

Well name: ANADARKO EMILE LAKE  
Location: A-77  
Run Depth (KB): 1983.6

BOTTOM RECORDER

| COMMENT<br>REAL TIME | ACCUM.<br>D/T HOURS | EVENT<br>D/T HOURS  | TEMPERATURE<br>RUNDEPTH | PRESSURE<br>RUNDEPTH | PRESSURE<br>MIDPNT |
|----------------------|---------------------|---------------------|-------------------------|----------------------|--------------------|
| 5/16/2004 04:29:00   | 1092.0000           | 988.4833            | 106.570                 | 16912.80             |                    |
| 5/16/2004 16:29:00   | 1104.0000           | 1000.4833           | 106.568                 | 16907.15             |                    |
| 5/17/2004 04:29:00   | 1116.0000           | 1012.4833           | 106.570                 | 16895.71             |                    |
| 5/17/2004 16:29:00   | 1128.0000           | 1024.4834           | 106.572                 | 16896.38             |                    |
| 5/18/2004 04:29:00   | 1140.0000           | 1036.4834           | 106.572                 | 16897.75             |                    |
| 5/18/2004 16:29:00   | 1152.0000           | 1048.4834           | 106.577                 | 16899.05             |                    |
| 5/19/2004 04:29:00   | 1164.0000           | 1060.4834           | 106.583                 | 16900.14             |                    |
| 5/19/2004 16:29:00   | 1176.0000           | 1072.4834           | 106.584                 | 16907.39             |                    |
| 5/20/2004 04:29:00   | 1188.0000           | 1084.4834           | 106.586                 | 16914.40             |                    |
| 5/20/2004 16:29:00   | 1200.0000           | 1096.4834           | 106.590                 | 16919.83             |                    |
| 5/21/2004 04:29:00   | 1212.0000           | 1108.4834           | 106.590                 | 16927.20             |                    |
| 5/21/2004 10:50:00   | 1218.3500           | 1114.8334           | 106.591                 | 16926.10             |                    |
|                      |                     | 05/21/2004 10:50:00 | END OF BUILD UP         |                      |                    |
| 5/21/2004 10:50:00   | 1218.3500           | 0.0000              | 106.591                 | 16926.10             |                    |

Remarks:

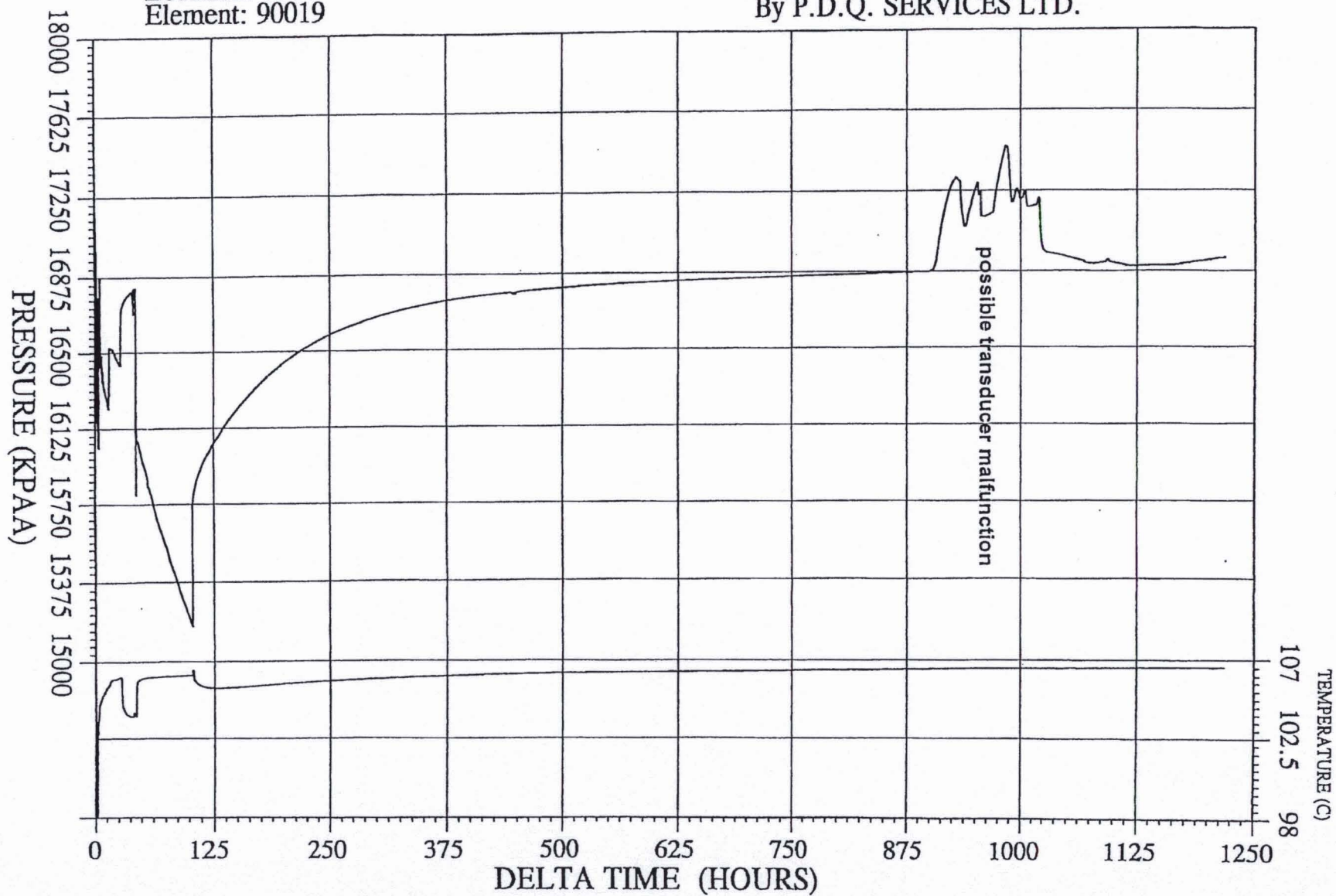
PRESSURES DO NOT APPEAR ACCURATE ON BOTTOM GAUGE #90019 DURING PART OF THE BUILD-UP DUE TO POSSIBLE TRANSDUCER MALFUNCTION.

Test by: RAPID

Interpretation by P.D.Q. SERVICES LTD.



Company: ANADARKO CANADA CORPORATION Well name: ANADARKO EMILE LAKE  
Location: A-77 Date of test: 03/31/04 TO 05/21/04  
Element: 90019 By P.D.Q. SERVICES LTD.



# Subsurface Pressure Measurements

Company: ANADARKO CANADA CORPORATION  
Address: CALGARY, ALBERTA  
Field & Pool: EMILE LAKE / SLAVEPOINT  
Type of test: STATIC GRADIENT  
Prod. Int KB: 1997.0 to 2010.0  
Elev. (CF) 624.7 (KB) 630.8  
Pool datum:

Well name: ANADARKO EMILE LAKE  
Location: A-77  
Status: GAS  
Date of test: 05/21/04  
Prod. through: 73.0MM TUBING  
Mid-point prod.int. KB: 2003.5  
Datum depth of well KB:

Tubing pres: 14206  
Shut in time: 04/05/2004 00:00 HRS  
Temperature at run depth: 106.768  
Deviated well: N

Casing pres: 4741  
Duration of Shut in: 1117.2333 HRS  
On bottom/off bottom: 13:24/13:28:30  
Depths corrected to TVD: Y

Note: All units in metric, depth in meters kb; pressure in kPaa

## TOP RECORDER

Element serial#: 90018  
Pressure Range: 41369 KPAA  
CAL-SCAN ELECTRONIC RECORDER  
Latest calibration: 01/25/04

Gauge started: 05/21/04 12:29  
Gauge stopped: 05/21/04 13:49  
Run depth (KB): 2003  
Grad. at run depth: 1.162  
Pres. at run depth: 16926.6  
Pres. at mid point perf.: 16927.2  
Pres. at datum depth:

| Depth<br>m | Temp<br>DEG.C | Pressure<br>KPAA | Gradient<br>KPA/m |
|------------|---------------|------------------|-------------------|
| 5.6        | 20.13         | 14215.3          | 0.000             |
| 505.6      | 23.05         | 15000.1          | 1.570             |
| 1005.6     | 48.59         | 15693.8          | 1.387             |
| 1505.6     | 74.40         | 16325.5          | 1.263             |
| 1905.6     | 100.57        | 16807.5          | 1.205             |
| 1942.6     | 103.89        | 16854.5          | 1.270             |
| 1972.6     | 105.54        | 16891.2          | 1.225             |
| 2003.0     | 106.60        | 16926.6          | 1.162             |

Fluid level at N/A  
Final pressure on bottom:16926.6 KPAA

## BOTTOM RECORDER

Element serial#: 90019  
Pressure range: 41369 KPAA  
CAL-SCAN ELECTRONIC RECORDER  
Latest calibration: 01/25/04

Gauge started: 05/21/04 12:29  
Gauge stopped: 05/21/04 13:49  
Run depth (KB): 2003.5  
Grad. at run depth: 1.114  
Pres. at run depth: 16913.3  
Pres. at mid point perf.: 16913.3  
Pres. at datum depth:

| Depth<br>m | Temp<br>DEG.C | Pressure<br>KPAA | Gradient<br>KPA/m |
|------------|---------------|------------------|-------------------|
| 6.1        | 17.87         | 14220.4          | 0.000             |
| 506.1      | 23.09         | 15004.4          | 1.568             |
| 1006.1     | 48.76         | 15699.8          | 1.391             |
| 1506.1     | 74.63         | 16333.1          | 1.267             |
| 1906.1     | 101.15        | 16801.6          | 1.171             |
| 1943.1     | 104.33        | 16844.6          | 1.163             |
| 1973.1     | 105.86        | 16879.4          | 1.161             |
| 2003.5     | 106.77        | 16913.3          | 1.114             |

Fluid level at N/A  
Final pressure on bottom:16913.3 KPAA

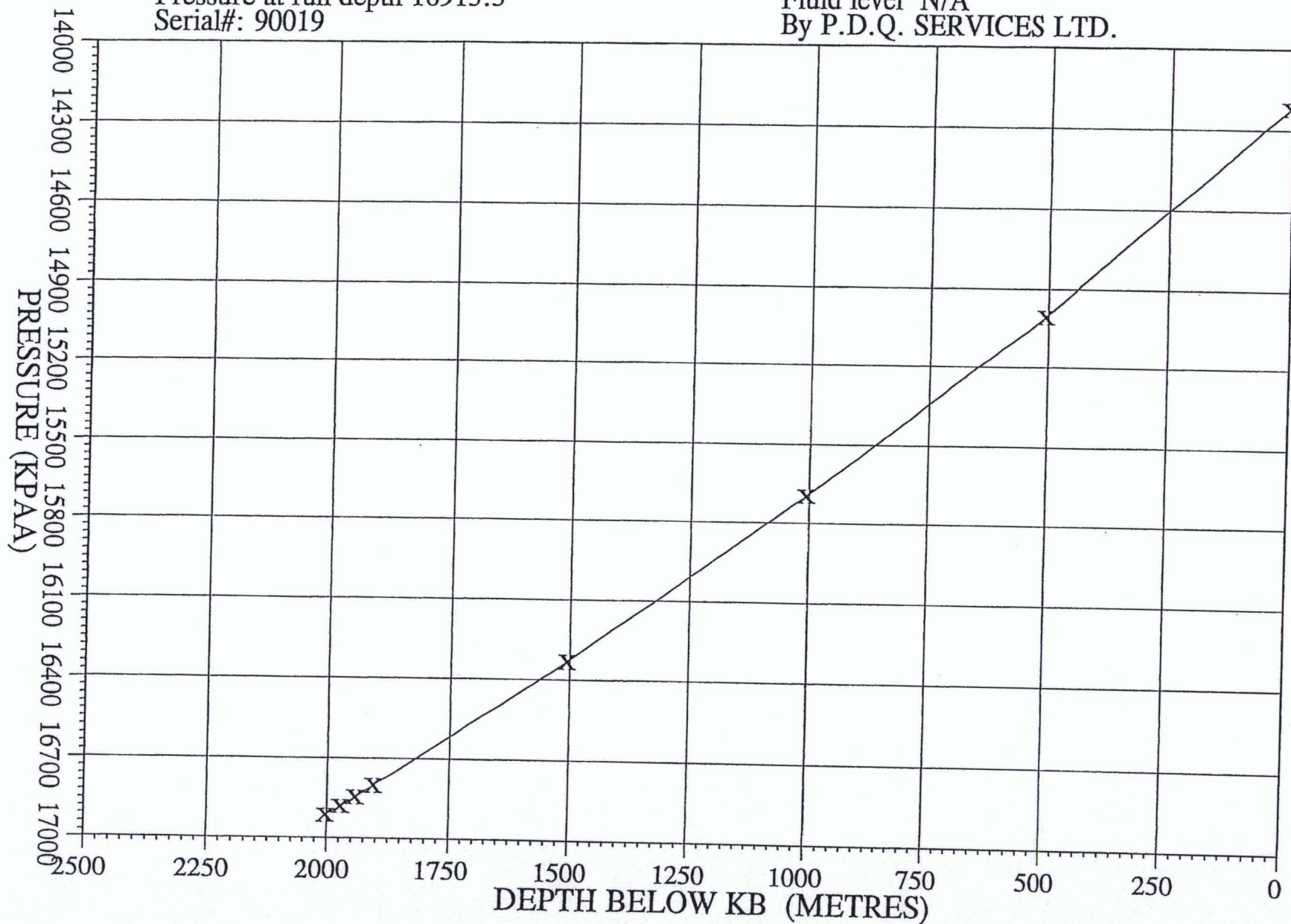
Remarks:

Test by: RAPID

Interpretation by P.D.Q. SERVICES LTD.



Company: ANADARKO CANADA CORPORATION Well name: ANADARKO EMILE LAKE  
Location: A-77 Date of test: 05/21/04  
Pressure at run depth 16913.3 Fluid level N/A  
Serial#: 90019 By P.D.Q. SERVICES LTD.



GRADIENT TEST



# HALLIBURTON FRA TURING AND CHEMICAL SERVICES

## SERVICE REPORT

HALLIBURTON DISTRICT  
North America

|               |                |
|---------------|----------------|
| INVOICE NO.   |                |
| SALES ORDER # | 2995307        |
| JOB DATE      | March 28, 2004 |

OWNER, OPERATOR OR HIS AGENT STATES THE WELL IN GOOD CONDITION FOR THE SERVICE JOB TO BE PERFORMED AND SUBMITS THE FOLLOWING DATA

|                                                    |  |                                |  |                                                    |  |                                     |  |
|----------------------------------------------------|--|--------------------------------|--|----------------------------------------------------|--|-------------------------------------|--|
| TOMER<br><b>Anadarko Canada Energy</b>             |  |                                |  | FIELD OR AREA<br><b>Mile Lake</b>                  |  | WELL NAME<br><b>Emile Lake A-77</b> |  |
| CALLED OUT<br>3/24/2004 13:00                      |  | ON LOCATION<br>3/25/2004 18:00 |  | JOB STARTED<br>3/28/2004 10:55                     |  | JOB COMPLETED<br>3/28/2004 20:00    |  |
| PROVINCE<br>N.W.T.                                 |  |                                |  | LSD                                                |  | SEC                                 |  |
| TWP                                                |  |                                |  | RANGE                                              |  | MERIDIAN                            |  |
| A-77                                               |  |                                |  |                                                    |  |                                     |  |
| WELL OR HOLE DATA                                  |  |                                |  |                                                    |  |                                     |  |
| FORMATION<br><b>Landry</b>                         |  |                                |  | DATE CASING SET                                    |  |                                     |  |
| TUBING: OD<br>73.03 mm                             |  | 9.67 KG/M3                     |  | DEPTH<br>2214 m                                    |  |                                     |  |
| CASING: OD<br>114.3 mm                             |  | 17.26 KG/M3                    |  | DEPTH                                              |  |                                     |  |
| LINER: OD<br>139 mm                                |  | 0 KG/M3                        |  | FROM                                               |  | TO                                  |  |
| PACKER: TYPE                                       |  |                                |  | SET AT                                             |  |                                     |  |
| TREAT THROUGH                                      |  | TSG                            |  | CTU                                                |  | CSG                                 |  |
|                                                    |  |                                |  | 0                                                  |  | TSG-ANNULUS                         |  |
|                                                    |  |                                |  |                                                    |  | X                                   |  |
| MATERIALS USED                                     |  |                                |  |                                                    |  |                                     |  |
| FIRST FLUID TYPE<br><b>15% HCl</b>                 |  |                                |  | SECOND FLUID TYPE<br><b>3 % KCL H2O</b>            |  |                                     |  |
| VOLUME<br>3.5 m3                                   |  |                                |  | VOLUME<br>23.0 m3                                  |  |                                     |  |
| ADDITIVES<br>kg/m <sup>3</sup> or L/m <sup>3</sup> |  |                                |  | ADDITIVES<br>kg/m <sup>3</sup> or L/m <sup>3</sup> |  |                                     |  |
| SCA-13<br>5L/M3                                    |  |                                |  |                                                    |  |                                     |  |
| 85M<br>10.00                                       |  |                                |  |                                                    |  |                                     |  |
| FERCHEK<br>6.00                                    |  |                                |  |                                                    |  |                                     |  |
| FE-6B<br>1.2KG/M3                                  |  |                                |  |                                                    |  |                                     |  |
| FE-7L<br>2.00                                      |  |                                |  |                                                    |  |                                     |  |
|                                                    |  |                                |  | THIRD FLUID TYPE                                   |  |                                     |  |
| VOLUME                                             |  |                                |  | VOLUME                                             |  |                                     |  |
| ADDITIVES                                          |  |                                |  | ADDITIVES                                          |  |                                     |  |
|                                                    |  |                                |  | kg/m <sup>3</sup> or L/m <sup>3</sup>              |  |                                     |  |
| DIVERTING AGENT: TYPE: AMOUNT:                     |  |                                |  |                                                    |  |                                     |  |
| ROP AGENT 1                                        |  | TYPE                           |  | MESH                                               |  | TONNE                               |  |
| 2                                                  |  |                                |  |                                                    |  |                                     |  |
| PROP CONC. (Kg/M3) 1 MAX                           |  | MIN                            |  | AVG.                                               |  |                                     |  |
| 2 MAX                                              |  | MIN                            |  | AVG.                                               |  |                                     |  |
| ACTUAL JOB TONNES IN FORM. 0.0                     |  |                                |  | TONNES IN TUBULARS 0.0                             |  |                                     |  |
| RESULTS SAND CONC @ PERFS (Kg/M3)                  |  |                                |  |                                                    |  |                                     |  |
| TREATMENT SUMMARY                                  |  |                                |  |                                                    |  |                                     |  |
| KW AVAILABLE 400.0                                 |  |                                |  | USED (AVERAGE)                                     |  |                                     |  |
| INJECTION RATES: M3/MIN                            |  |                                |  |                                                    |  |                                     |  |
| TREAT                                              |  | DISPLACE                       |  | AVERAGE                                            |  |                                     |  |
| PRESSURE: MPA                                      |  |                                |  |                                                    |  |                                     |  |
| BREAKDOWN FROM: TO:                                |  |                                |  |                                                    |  |                                     |  |
| MAX. TREAT                                         |  | MIN. TREAT                     |  | END DISPLACE                                       |  | AVG.                                |  |
| INSTANTANEOUS SHUT-IN 15 MIN                       |  |                                |  | 30 MIN                                             |  |                                     |  |
| ISIP MINI FRAC #1                                  |  | #2                             |  |                                                    |  |                                     |  |
| CLOSURE MINI FRAC #1                               |  | #2                             |  |                                                    |  |                                     |  |
| FLUID VOLUMES:                                     |  |                                |  |                                                    |  |                                     |  |
| 1st                                                |  | 2nd                            |  | 3rd                                                |  | 1st                                 |  |
| 2nd                                                |  | 3rd                            |  | 1st                                                |  | 2nd                                 |  |
| 3rd                                                |  | 1st                            |  | 2nd                                                |  | 3rd                                 |  |
| TTL ON LEASE BEFORE JOB                            |  | 0.000                          |  | 0.0                                                |  | 0.0                                 |  |
| FILL HOLE                                          |  |                                |  |                                                    |  |                                     |  |
| BREAKDOWN AND PAD                                  |  |                                |  |                                                    |  |                                     |  |
| MINI FRAC                                          |  |                                |  |                                                    |  |                                     |  |
| TREATING FLUID                                     |  |                                |  |                                                    |  |                                     |  |
| FLUSH FLUID                                        |  |                                |  |                                                    |  |                                     |  |
| TTL FLUID INJECTED                                 |  | 0.000                          |  | 0.000                                              |  | 0.000                               |  |
| TTL ON LEASE AFTER JOB (TANKS AND SURFACE EQUIP)   |  | 0.000                          |  | 0.000                                              |  | 0.000                               |  |

SUMMARY OF PLANNED TREATMENT:

| HALLIBURTON OPERATOR: Dan Gray MBU 1152001 |           |               |            |               |            |                |             |                   |                | CUSTOMER REPRESENTATIVE: Joe Graves X |                      |
|--------------------------------------------|-----------|---------------|------------|---------------|------------|----------------|-------------|-------------------|----------------|---------------------------------------|----------------------|
| Time                                       | Tbg Pres. | Annular Pres. | Fluid Rate | Acid Stage vl | Acid Total | Displace Fluid | Water Total | Acid In Formation | Fluid in form. | STAGES                                | Remarks              |
| 24:00                                      | Mpa       | Mpa           | m3/min.    | m3            | m3         |                |             |                   | m3             |                                       |                      |
| 10:58:00                                   |           |               |            |               |            |                |             |                   |                |                                       | START JOB            |
| 10:59:00                                   | 3.000     | 2.00          | 0.20       |               |            |                | 0.300       |                   |                |                                       | BREAK CIRCULATION    |
| 11:01:00                                   | 21.00     |               |            |               |            |                |             |                   |                |                                       | TEST LINES           |
| 11:04:00                                   | 3.00      | 2.00          | 0.200      | 0.500         | 0.500      |                |             |                   |                |                                       | PUMP PICKLE ACID     |
| 11:06:00                                   | 2.80      | 1.70          | 0.200      |               |            | 6.100          | 6.400       |                   |                |                                       | DISPLACE PICKLE ACID |
| 11:36:00                                   | 1.00      | 3.30          | 0.300      |               |            | 10.000         |             |                   |                |                                       | REVERSE PICKLE ACID  |
| 12:30:00                                   | 10.00     |               |            |               |            |                |             |                   |                |                                       | TEST TOOL            |
| 13:15:00                                   | 3.00      | 2.00          | 0.300      | 3.000         | 3.500      |                |             |                   |                |                                       | PUMP ACID            |
| 13:25:00                                   | 4.00      | 2.00          | 0.300      |               |            | 3.800          | 10.200      |                   |                |                                       | DISPLACE ACID        |
| 13:37:00                                   |           |               |            |               |            |                |             |                   |                |                                       | WASH PERF            |
| 13:41:00                                   | 0.50      | 1.00          | 0.050      | 0.100         |            | 0.100          | 10.300      |                   |                |                                       | MOVE ACID            |
| 13:42:00                                   |           |               |            |               |            |                |             |                   |                |                                       | WASH PERF            |
| 13:47:00                                   | 0.50      | 0.50          | 0.050      |               |            | 0.100          | 10.400      |                   |                |                                       | MOVE ACID            |
| 13:48:00                                   |           |               |            |               |            |                |             |                   |                |                                       | WASH PERF            |
| 13:48:00                                   | 0.00      | 0.50          | 0.050      |               |            | 0.100          | 10.500      |                   |                |                                       | MOVE ACID            |
| 13:54:00                                   |           |               |            |               |            |                |             |                   |                |                                       | WASH PERF            |



## Service Report Continuation Sheet

## North America

|               |                  |
|---------------|------------------|
| INVOICE NO.   | 0                |
| SALES ORDER # | 2995307          |
| JOB DATE      | November 16 2001 |

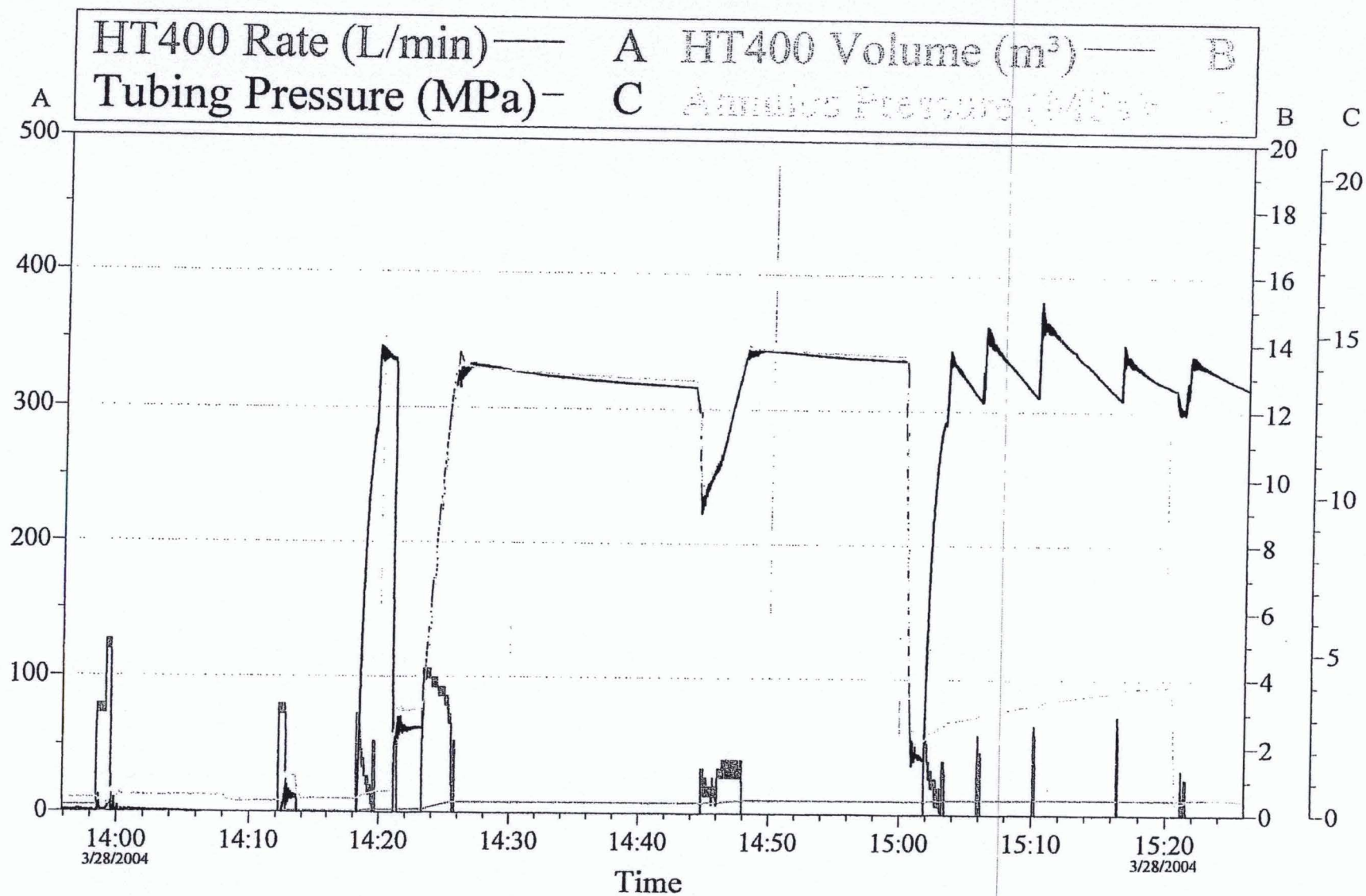
OWNER, OPERATOR OR HIS AGENT STATES THE WELL IN GOOD CONDITION FOR THE SERVICE JOB TO BE PERFORMED AND SUBMITS THE FOLLOWING DATA

|                        |  |                |  |                 |  |                 |  |                 |  |     |     |      |       |          |
|------------------------|--|----------------|--|-----------------|--|-----------------|--|-----------------|--|-----|-----|------|-------|----------|
| CUSTOMER               |  |                |  | FIELD OR AREA   |  |                 |  | WELL NAME       |  |     |     |      |       |          |
| Anadarko Canada Energy |  |                |  | Mile Lake       |  |                 |  | Emile Lake A-77 |  |     |     |      |       |          |
| CALLED OUT             |  | ON LOCATION    |  | JOB STARTED     |  | JOB COMPLETED   |  | PROVINCE        |  | LSL | SEC | TWP  | RANGE | MERIDIAN |
| 3/24/2004 15:00        |  | 3/28/2004 8:00 |  | 3/28/2004 19:00 |  | 3/28/2004 23:00 |  | N.W.T.          |  |     |     | A-77 |       |          |

Service-Pack 2000  
Date: 01-Nov-00

Service Continuation Sheet

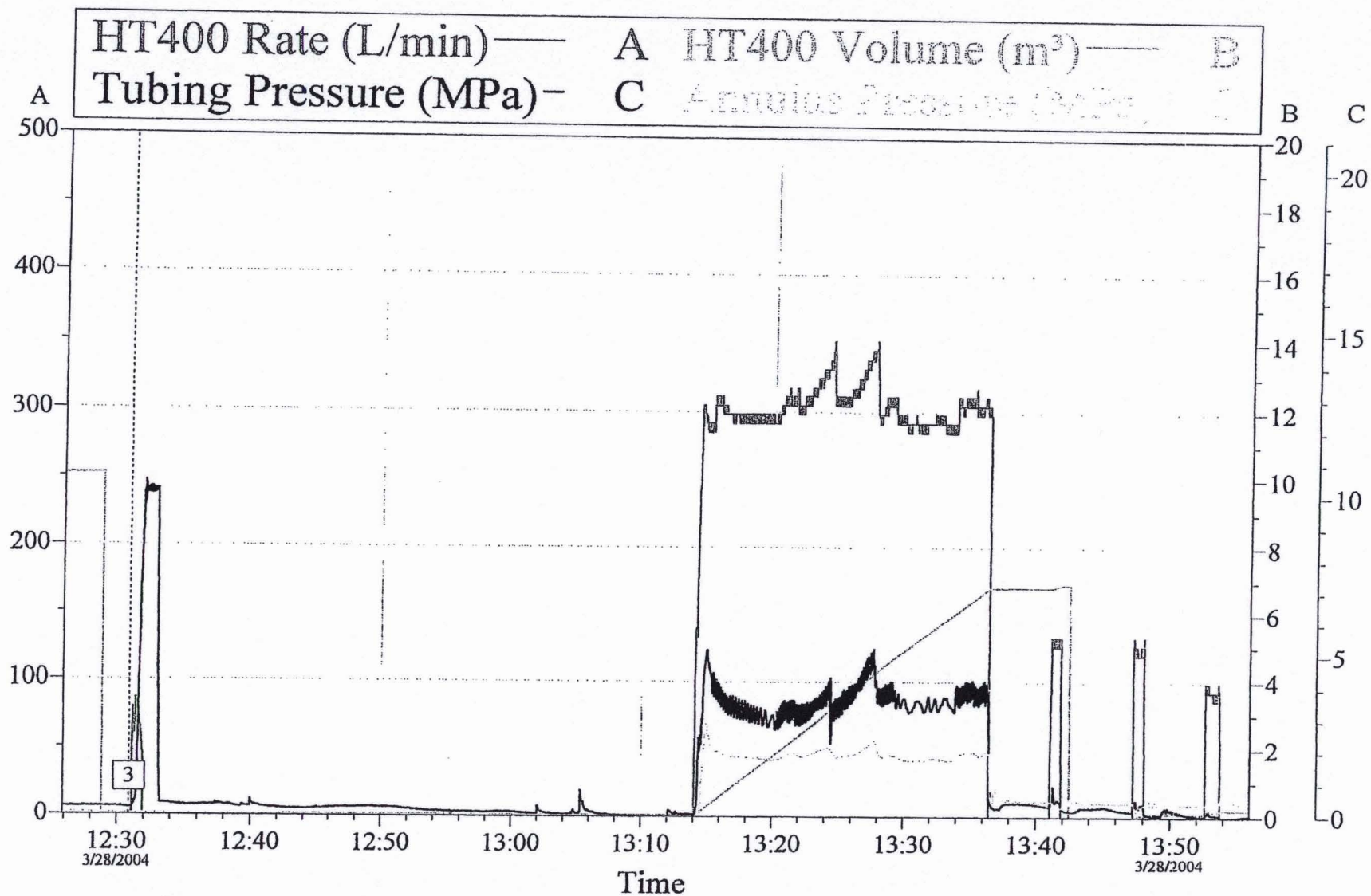




|                    |                             |                      |
|--------------------|-----------------------------|----------------------|
| Customer: Anadarko | Job Date: March 28, 2004    | Sales Order: 2995307 |
| Well Desc: A-77    | Job Type: Selective Squeeze |                      |
| Operator: Dan Gray | Customer Rep. Joe Graves    |                      |

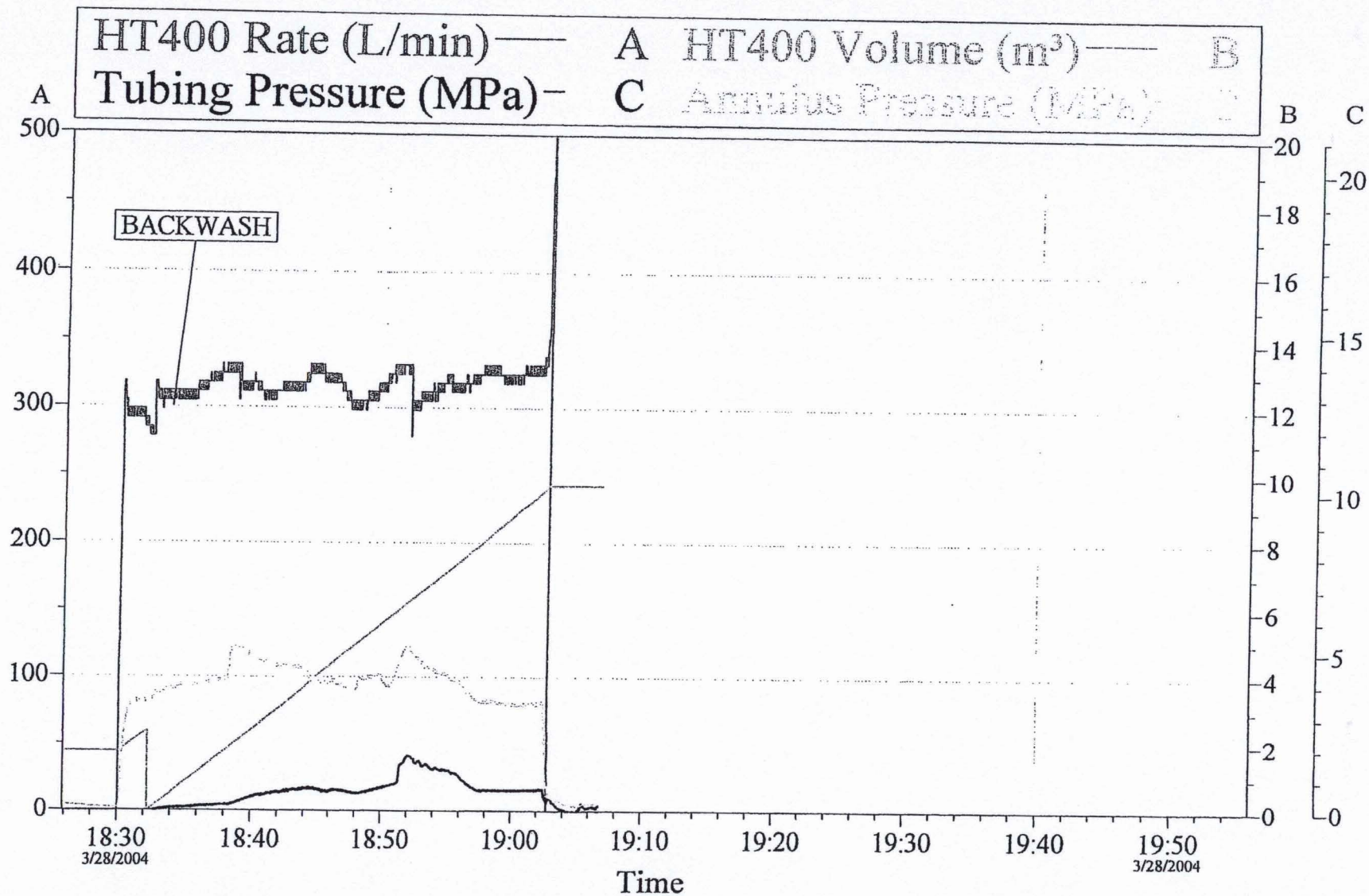
StimWin v4.7.0  
28-Mar-04 19:10





|                    |                             |                      |
|--------------------|-----------------------------|----------------------|
| Customer: Anadarko | Job Date: March 28, 2004    | Sales Order: 2995307 |
| Well Desc: A-77    | Job Type: Selective Squeeze |                      |
| Operator: Dan Gray | Customer Rep. Joe Graves    |                      |

StimWin v4.7.0  
28-Mar-04 19:10



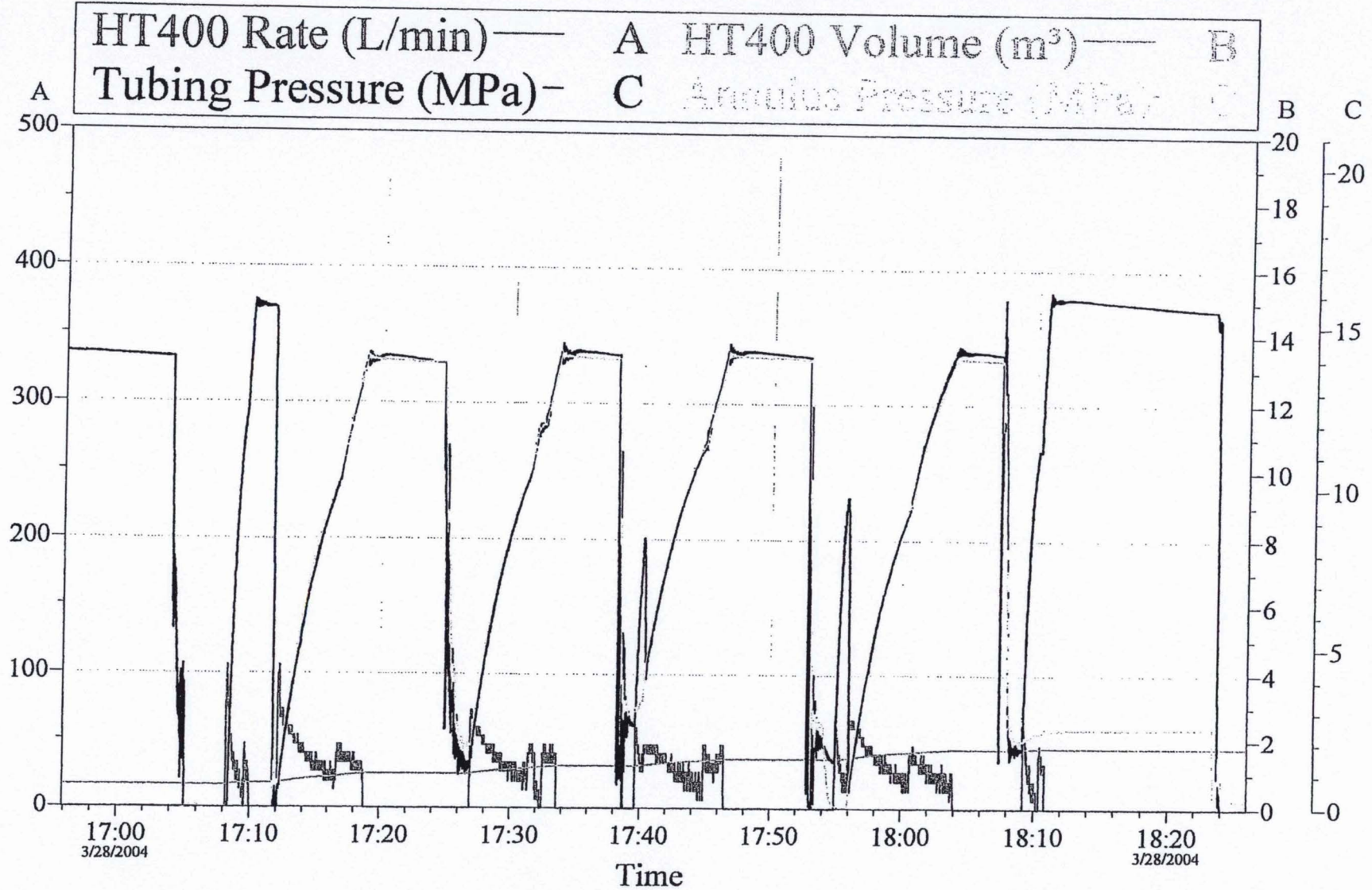
Customer: Anadarko  
Well Desc: A-77  
Operator: Dan Gray

Job Date: March 28, 2004  
Job Type: Selective Squeeze  
Customer Rep. Joe Graves

Sales Order: 2995307

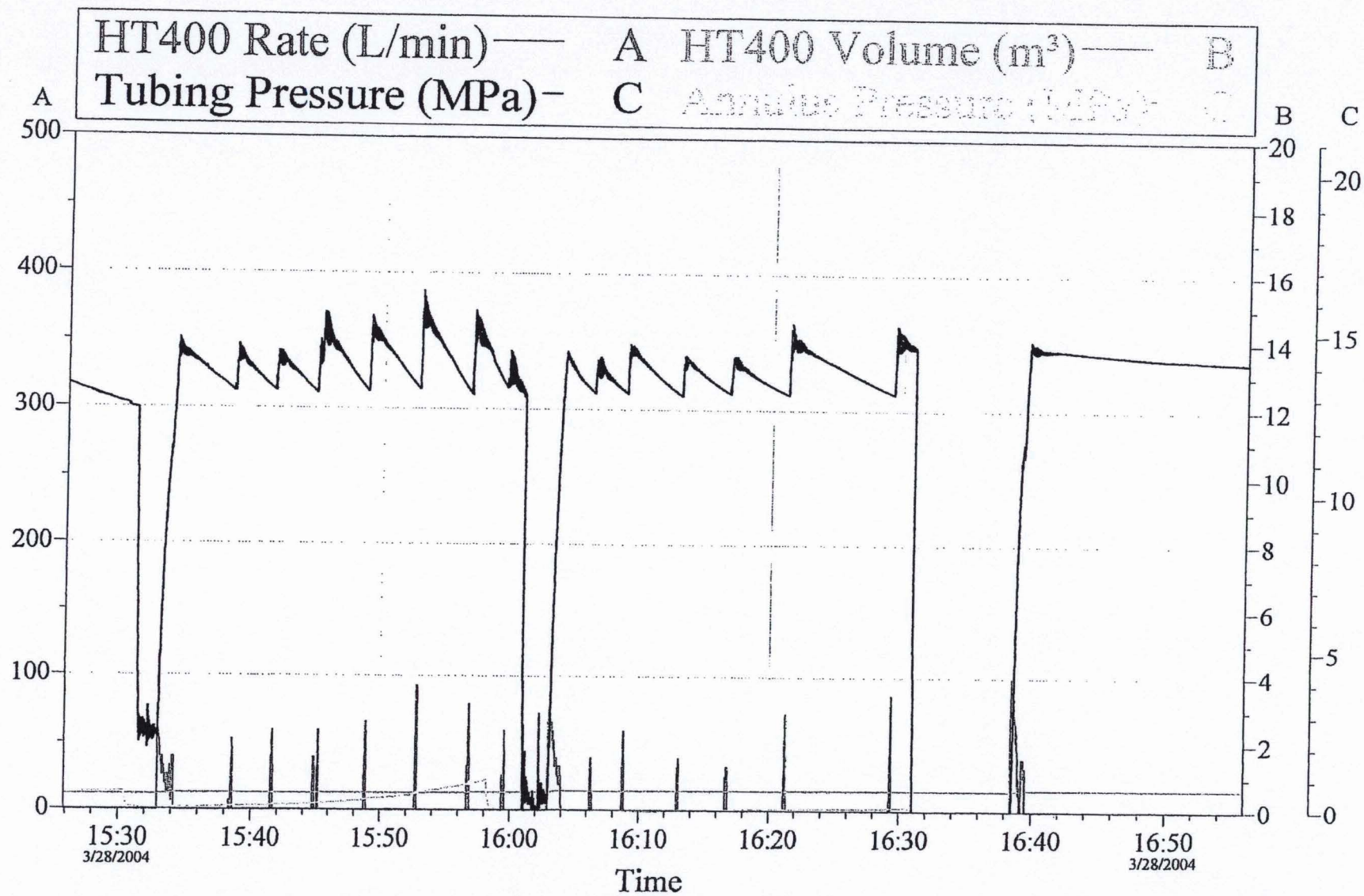
StimWin v4.7.0  
28-Mar-04 19:10





|                    |                             |                      |
|--------------------|-----------------------------|----------------------|
| Customer: Anadarko | Job Date: March 28, 2004    | Sales Order: 2995307 |
| Well Desc: A-77    | Job Type: Selective Squeeze |                      |
| Operator: Dan Gray | Customer Rep. Joe Graves    |                      |

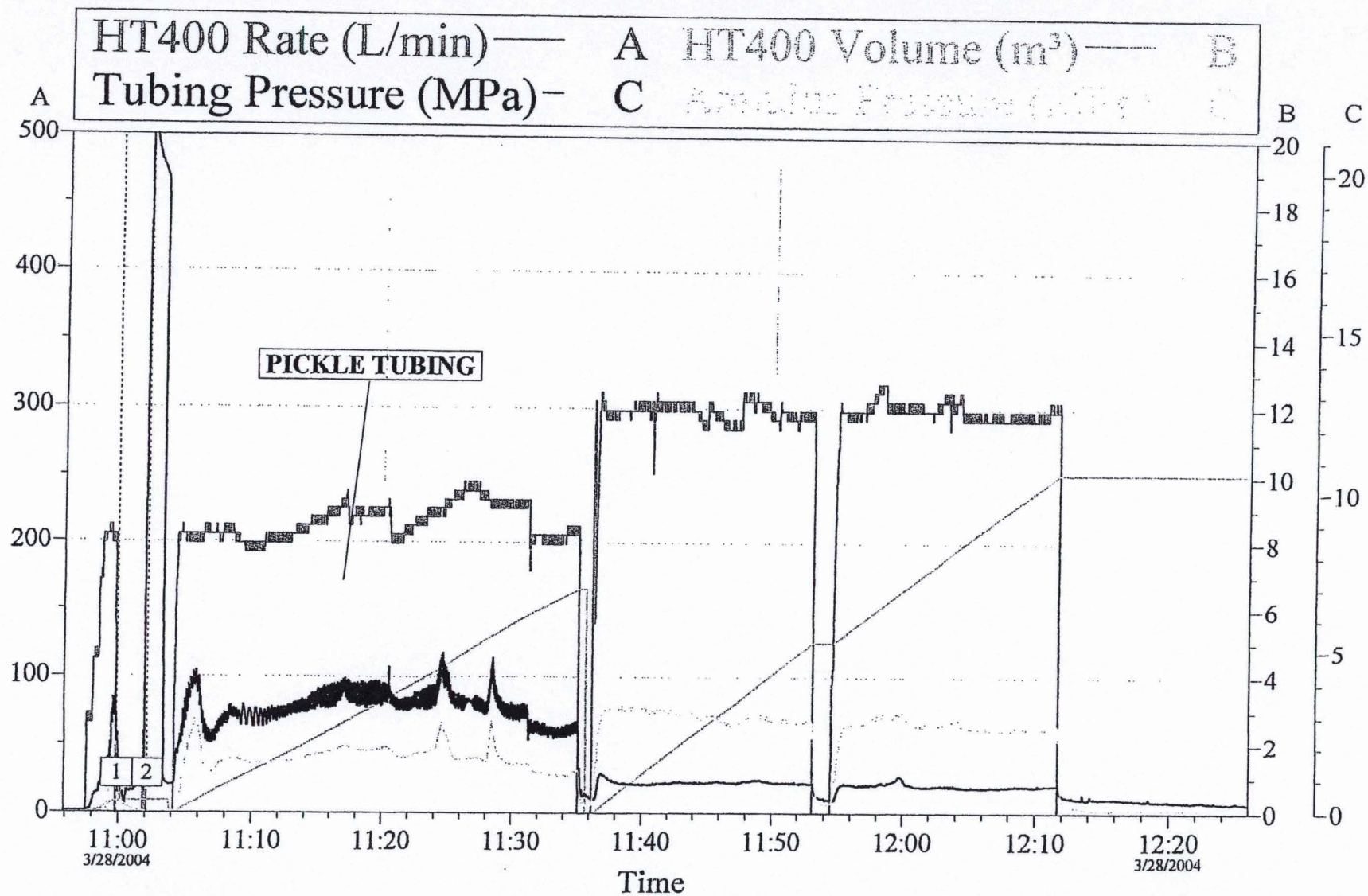
StimWin v4.7.0  
28-Mar-04 19:10



|                    |                             |                      |
|--------------------|-----------------------------|----------------------|
| Customer: Anadarko | Job Date: March 28, 2004    | Sales Order: 2995307 |
| Well Desc: A-77    | Job Type: Selective Squeeze |                      |
| Operator: Dan Gray | Customer Rep. Joe Graves    |                      |

StimWin v4.7.0  
28-Mar-04 19:10





|                    |                             |                      |
|--------------------|-----------------------------|----------------------|
| Customer: Anadarko | Job Date: March 28, 2004    | Sales Order: 2995307 |
| Well Desc: A-77    | Job Type: Selective Squeeze |                      |
| Operator: Dan Gray | Customer Rep: Joe Graves    |                      |

StimWin v4.7.0  
 28-Mar-04 19:10



# HALLIBURTON FRA TURING AND CHEMICAL SERVICES

## SERVICE REPORT

HALLIBURTON DISTRICT  
North America

|               |                |
|---------------|----------------|
| INVOICE NO.   |                |
| SALES ORDER # | 3001756        |
| JOB DATE      | March 29, 2004 |

OWNER, OPERATOR OR HIS AGENT STATES THE WELL IN GOOD CONDITION FOR THE SERVICE JOB TO BE PERFORMED AND SUBMITS THE FOLLOWING DATA

|                                       |  |                                |  |                                   |  |                                         |  |
|---------------------------------------|--|--------------------------------|--|-----------------------------------|--|-----------------------------------------|--|
| TOWER<br><b>Anadarko Canada Corp.</b> |  |                                |  | FIELD OR AREA<br><b>Ft. Liard</b> |  | WELL NAME<br><b>Anadarko Emile Lake</b> |  |
| CALLED OUT<br>3/28/2004 16:00         |  | ON LOCATION<br>3/29/2004 22:00 |  | JOB STARTED<br>3/29/2004 11:30    |  | JOB COMPLETED<br>3/29/2004 3:00         |  |
| PROVINCE<br>N.W.T.                    |  |                                |  | A-77                              |  |                                         |  |

|                                                         |  |                    |  |                                                                     |  |                                                  |  |
|---------------------------------------------------------|--|--------------------|--|---------------------------------------------------------------------|--|--------------------------------------------------|--|
| WELL OR HOLE DATA                                       |  |                    |  |                                                                     |  |                                                  |  |
| FORMATION<br><b>Sulphur Point</b>                       |  |                    |  | DATE CASING SET                                                     |  |                                                  |  |
| TUBING: OD<br><b>73.03 mm</b>                           |  | <b>9.67 KG/M3</b>  |  | DEPTH<br><b>2010 m</b>                                              |  | MAX ALLOWABLE PRESS: TBG <b>35</b> CSG <b>14</b> |  |
| CASING: OD<br><b>177.8 mm</b>                           |  | <b>25.30 KG/M3</b> |  | DEPTH<br><b>0 m</b>                                                 |  | CAPACITY TBG CTU CSG ANNULUS CSG/OPEN HOLE       |  |
| LINER: OD<br><b>114 mm</b>                              |  | <b>0 KG/M3</b>     |  | FROM <b>0</b> TO <b>0</b>                                           |  | <b>6</b>                                         |  |
| PACKER: TYPE                                            |  |                    |  | CTU SIZE CTU AVAILABLE m                                            |  |                                                  |  |
| TREAT THROUGH TBG CTU CSG <b>0</b> TBG+ANNULUS <b>X</b> |  |                    |  | PERFORATIONS FROM <b>1997.0</b> TO <b>2010.0</b> cm SHOTS <b>13</b> |  |                                                  |  |
|                                                         |  |                    |  | FROM TO cm SHOTS                                                    |  |                                                  |  |
|                                                         |  |                    |  | FROM TO cm SHOTS                                                    |  |                                                  |  |
|                                                         |  |                    |  | OPEN HOLE SIZE FROM <b>0</b> TO <b>0</b>                            |  |                                                  |  |
|                                                         |  |                    |  | WELL TYPE <b>GAS</b> BHT <b>120 °C</b> TVD <b>0.0 m</b>             |  |                                                  |  |

|                                                 |  |                                                 |  |                                                                    |  |  |  |
|-------------------------------------------------|--|-------------------------------------------------|--|--------------------------------------------------------------------|--|--|--|
| MATERIALS USED                                  |  |                                                 |  | TREATMENT SUMMARY                                                  |  |  |  |
| FIRST FLUID TYPE<br><b>15% HCl</b>              |  | SECOND FLUID TYPE<br><b>H2O</b>                 |  | KW AVAILABLE <b>400.0</b> USED (AVERAGE)                           |  |  |  |
| VOLUME <b>8.0 m3</b>                            |  | VOLUME <b>12.0 m3</b>                           |  | INJECTION RATES: M3/MIN                                            |  |  |  |
| ADDITIVES kg/m <sup>3</sup> or L/m <sup>3</sup> |  | ADDITIVES kg/m <sup>3</sup> or L/m <sup>3</sup> |  | TREAT DISPLACE AVERAGE                                             |  |  |  |
| <b>SCA-130 5L/M3</b>                            |  |                                                 |  | PRESSURE: MPA                                                      |  |  |  |
| <b>85M 10.00</b>                                |  |                                                 |  | BREAKDOWN FROM: TO:                                                |  |  |  |
| <b>FERCHECK 6.00</b>                            |  |                                                 |  | MAX. TREAT MIN. TREAT END DISPLACE AVG.                            |  |  |  |
| <b>FE-6B 1.20%</b>                              |  |                                                 |  | INSTANTANEOUS SHUT-IN 15 MIN 30 MIN                                |  |  |  |
| <b>FE-7L 2.00</b>                               |  |                                                 |  | ISIP MINI FRAC #1 #2                                               |  |  |  |
|                                                 |  |                                                 |  | CLOSURE MINI FRAC #1 #2                                            |  |  |  |
|                                                 |  |                                                 |  | FLUID VOLUMES:                                                     |  |  |  |
|                                                 |  |                                                 |  | 1st 2nd 3rd 1st 2nd 3rd                                            |  |  |  |
|                                                 |  |                                                 |  | TTL ON LEASE BEFORE JOB 0.000 0.0 0.0                              |  |  |  |
|                                                 |  |                                                 |  | FILL HOLE                                                          |  |  |  |
|                                                 |  |                                                 |  | BREAKDOWN AND PAD                                                  |  |  |  |
|                                                 |  |                                                 |  | MINI FRAC                                                          |  |  |  |
|                                                 |  |                                                 |  | TREATING FLUID                                                     |  |  |  |
|                                                 |  |                                                 |  | FLUSH FLUID                                                        |  |  |  |
|                                                 |  |                                                 |  | TTL FLUID INJECTED 0.000 0.000 0.000 0.000 0.000 0.000             |  |  |  |
|                                                 |  |                                                 |  | TTL ON LEASE AFTER JOB (TANKS AND SURFACE EQUIP) 0.000 0.000 0.000 |  |  |  |

|                                                       |  |  |  |
|-------------------------------------------------------|--|--|--|
| DIVERTING AGENT: TYPE: AMOUNT:                        |  |  |  |
| PROP AGENT 1 TYPE MESH TONNE                          |  |  |  |
| 2 #REF! #REF!                                         |  |  |  |
| PROP CONC. (Kg/M3) 1 MAX MIN AVG.                     |  |  |  |
| 2 MAX MIN AVG.                                        |  |  |  |
| ACTUAL JOB TONNES IN FORM. 0.0 TONNES IN TUBULARS 0.0 |  |  |  |
| RESULTS SAND CONC @ PERFS (Kg/M3)                     |  |  |  |

SUMMARY OF PLANNED TREATMENT:

| HALLIBURTON OPERATOR: Dan Gray |           |               |  | MBU 1152001 |               | CUSTOMER REPRESENTATIVE: Joe Graves |                |             |                   |                | X      |                    |
|--------------------------------|-----------|---------------|--|-------------|---------------|-------------------------------------|----------------|-------------|-------------------|----------------|--------|--------------------|
| Time                           | Tbg Pres. | Annular Pres. |  | Fluid Rate  | Acid Stage vl | Acid Total                          | Displace Fluid | Water Total | Acid In Formation | Fluid in form. | STAGES | Remarks            |
| 24:00                          | Mpa       | Mpa           |  | m3/min.     | m3            | m3                                  |                |             |                   | m3             |        |                    |
| 23:30:00                       |           |               |  |             |               |                                     |                |             |                   |                |        | START JOB          |
| 23:35:00                       |           |               |  | 0.30        |               |                                     |                | 500L        |                   |                |        | BREAK CIRCULATION  |
| 23:41:00                       |           |               |  |             |               |                                     |                |             |                   |                |        | TEST LINES (21MPA) |
| 23:47:00                       | 3.50      | 1.50          |  | 0.300       | 6.300         | 6.300                               |                |             |                   |                |        | PUMP WASH ACID     |
| 0:08:00                        |           |               |  |             |               |                                     |                |             |                   |                |        | HOLD ACID          |
| 0:12:00                        | 0.60      | 0.00          |  | 0.300       | 0.250         | 6.550                               |                |             |                   |                |        | PUMP WASH ACID     |
| 0:13:00                        |           |               |  |             |               |                                     |                |             |                   |                |        | HOLD ACID          |
| 0:16:00                        | 0.60      | 0.00          |  | 0.300       | 0.250         | 6.800                               |                |             |                   |                |        | PUMP WASH ACID     |
| 0:17:00                        |           |               |  |             |               |                                     |                |             |                   |                |        | HOLD ACID          |
| 0:21:00                        |           |               |  | 0.300       | 0.250         | 7.050                               |                |             |                   |                |        | PUMP WASH ACID     |
| 0:22:00                        |           |               |  |             |               |                                     |                |             |                   |                |        | HOLD ACID          |
| 0:25:00                        |           |               |  | 0.300       | 0.250         | 7.300                               |                |             |                   |                |        | PUMP WASH ACID     |
| 0:26:00                        |           |               |  |             |               |                                     |                |             |                   |                |        | HOLD ACID          |
| 0:30:00                        |           |               |  | 0.300       | 0.250         | 7.550                               |                |             |                   |                |        | PUMP WASH ACID     |
| 0:31:00                        |           |               |  |             |               |                                     |                |             |                   |                |        | HOLD ACID          |
|                                |           |               |  |             |               |                                     |                |             |                   |                |        |                    |



HALL HURTON DISTRICT  
North America

|               |                  |
|---------------|------------------|
| INVOICE NO.   | 0                |
| SALES ORDER # | 3001756          |
| JOB DATE      | November 16 2001 |

OWNER, OPERATOR OR HIS AGENT STATES THE WELL IN GOOD CONDITION FOR THE SERVICE JOB TO BE PERFORMED AND SUBMITS THE FOLLOWING DATA

**CUSTOMER**

FIELD OR AREA

| WELL NAME |
|-----------|
|-----------|

**CALLER OUT**

ON LOCATION

**JOB STARTED**

**JOB COMPLETED**

PROVINCE

LSD

SEC

TWP

RANGE

MERIDIAN

3/29/2004

18:00 | 3/25

2004

2:30 3/29/2

14 1-

3/29/2004

18:00

A-B

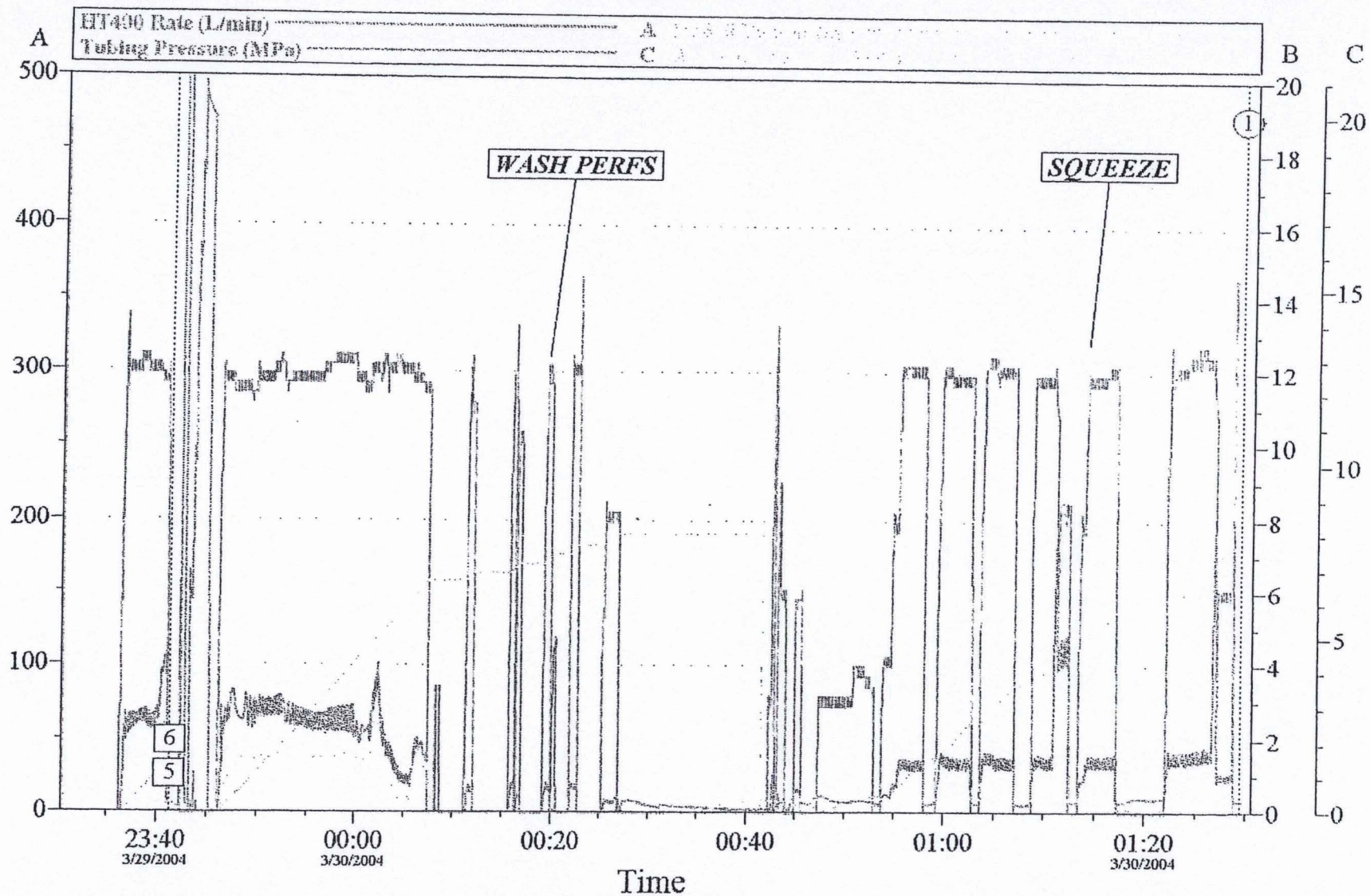
10

A-77

Service-Pack 2000  
Date: 01-Nov-00

Service Continuation Sheet





Customer: Anadarko  
Well Desc: A-77  
Customer Rep. Joe Graves

Job Date: March 29, 2004  
Job Type: Selective Acid  
Halliburton Rep. Dan Gray

Sales Order# 3001756

StimWin v4.7.0  
30-Mar-04 01:47



**TUBING PICKLE, ACID WASH AND SELECTIVE ACID SQUEEZE PROGRAM  
FOR  
ANADARKO CANADA CORPORATION**

**ANADARKO EMILE LAKE A-77  
60° 46' 9.6" N LATITUDE, 122° 43' 33.9" W LONGITUDE  
LANDRY FORMATION**

**ATTENTION: MR. DAVE SALAHUB**

Art Unger  
Anadarko DESC Engineer  
Business: (403) 231-0107  
Cell: (403) 620-3159  
Fax: (403) 231-0251  
E-mail: [unger@calgary.oilfield.slb.com](mailto:unger@calgary.oilfield.slb.com)

March 19, 2004  
Calgary, Alberta

Service From District:  
Fort St. John: (250) 785-4467

Anadarko Emile Lake A-77 ACSQ Landry Selective-Acid.doc  
/au

**WELL DATA**

|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
| WELL NAME:                      | Anadarko Emile Lake A-77                               |
| LOCATION:                       | 60° 46' 9.6" N Latitude, 122° 43' 33.9" W Longitude    |
| STATUS:                         | Gas Well                                               |
| FORMATION:                      | Landry                                                 |
| FRACTURE GRADIENT:              | 17.0 kPa/metre (estimated)                             |
| PERFORATIONS:                   | 2,209.0 metres to 2,214.0 metres<br>13 shots per metre |
| CASING:                         | 178 mm, 38.69 kg/metre, L-80 to ±1,868 metres          |
| LINER:                          | 114 mm, 17.26 kg/metre, L-80 to ±2,265 metres          |
| TUBING:                         | 73 mm, 9.67 kg/metre, J-55                             |
| TUBING CAPACITY:                | 0.0030 m <sup>3</sup> /metre                           |
| LINER CAPACITY:                 | 0.0081 m <sup>3</sup> /metre                           |
| TUBING/LINER ANNULAR CAPACITY:  | 0.0039 m <sup>3</sup> /metre                           |
| TUBING/CASING ANNULAR CAPACITY: | 0.0158 m <sup>3</sup> /metre                           |
| B.H.S.T:                        | 112°C                                                  |
| B.H.S.P.:                       | 19.4 MPa                                               |
| H <sub>2</sub> S:               | 0.5%                                                   |
| CO <sub>2</sub> :               | 20%                                                    |
| SELECTIVE ACIDIZING TOOL:       | 1.0 metre spacing                                      |



## DESIGN SUMMARY

|                                       |                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACID SYSTEM:                          | 15% HCl Acid containing:<br>0.8% A262 Corrosion Inhibitor (6 hours protection)<br>0.8% A201 Corrosion Inhibitor Aid (6 hours protection)<br>0.7% A255 H <sub>2</sub> S Scavenger<br>0.2% F103 Surfactant<br>0.3% W54 Non-Emulsifying Agent<br>0.8% U42 Chelating Agent<br>0.5 kg/m <sup>3</sup> L58 Iron Stabilizer |
| TUBING PICKLE:                        | 0.75 m <sup>3</sup> 15% HCl Acid Blend                                                                                                                                                                                                                                                                              |
| ACID WASH:                            | 0.25 m <sup>3</sup> 15% HCl Acid Blend                                                                                                                                                                                                                                                                              |
| ACID SQUEEZE:                         | 5.0 m <sup>3</sup> 15% HCl Acid Blend                                                                                                                                                                                                                                                                               |
| <b>TOTAL ACID VOLUME:</b>             | <b>6.0 m<sup>3</sup> 15% HCl Acid Blend</b>                                                                                                                                                                                                                                                                         |
| BOTTOMHOLE FRACTURE PRESSURE:         | + 37.5 MPa                                                                                                                                                                                                                                                                                                          |
| HYDROSTATIC HEAD (ACID):              | - <u>23.3 MPa</u>                                                                                                                                                                                                                                                                                                   |
| SURFACE FRACTURE PRESSURE:            | = 14.2 MPa                                                                                                                                                                                                                                                                                                          |
| MAXIMUM SURFACE<br>TREATING PRESSURE: | 10.0 MPa                                                                                                                                                                                                                                                                                                            |

### NOTE:

- Sufficient M3 Soda Ash is to be brought to location to neutralize acid returns.

## TREATMENT PROCEDURE

1. Move in and rig up Schlumberger Equipment to perform a tubing pickle, acid wash and selective acid squeeze treatment.
2. Conduct a safety and procedure meeting with all personnel present before treatment begins.
3. Fill and pressure test the treating lines to 30 MPa.
4. With the hole full and the selective acidizing tool spotted above the perforations ( $\pm 2,207$  metres), circulate  $0.75 \text{ m}^3$  acid down the tubing to tubing bottom at a maximum pump rate of  $0.4 \text{ m}^3/\text{minute}$ . Hold backpressure on the annulus to prevent u-tubing.
5. Reverse circulate the acid out of the well at a maximum pump rate of  $0.4 \text{ m}^3/\text{minute}$ .
6. Position the circulating valve of the selective acidizing tool just below the bottom perforation ( $\pm 2,216$  metres).
7. Circulate  $0.25 \text{ m}^3$  acid down the tubing to tubing bottom. Hold backpressure on the annulus to prevent u-tubing.
8. Wash the acid past the perforations in five stages of  $0.05 \text{ m}^3$  per stage. Hold 2.0 MPa backpressure on the first wash and increase the backpressure by 2.0 MPa for each additional wash.
9. Reverse circulate the acid out of the well.
10. Position the selective acidizing tool across the bottom metre of perforations.



## TREATMENT PROCEDURE CONTINUED

11. Circulate the remaining acid down the tubing to tubing bottom. Hold backpressure on the annulus to prevent u-tubing.
12. Squeeze 1.0 m<sup>3</sup> of acid. **Do not exceed fracture pressure.**
13. Position the selective acidizing tool across the next metre of perforations and squeeze 1.0 m<sup>3</sup> of acid. **Do not exceed fracture pressure.**
14. Repeat Step 13 for the remaining perforations.
15. Position the circulating valve of the selective acidizing tool below the perforations.
16. Reverse circulate any residual acid out of the well.
17. Rig out Schlumberger equipment.
18. Swab the well back and evaluate.

## COST ESTIMATE

| Quantity | Unit   | Description                    | Unit Price          | Quantity Price       |
|----------|--------|--------------------------------|---------------------|----------------------|
| 1        | each   | Acid Pumper                    | \$3,050.00 .....    | \$3,050.00           |
| 1        | each   | High Pressure Squeeze Manifold | \$1,215.00 .....    | \$1,215.00           |
| 1        | each   | High Pressure Selective Hose   | \$1,300.00 .....    | \$1,300.00           |
| 1        | each   | CemCAT Job Recorder            | \$920.00 .....      | \$920.00             |
| 650      | km     | Pumper Travel Charge           | \$8.10 .....        | \$5,265.00           |
| 6,000    | litres | 15% HCl Acid                   | \$1.00 .....        | \$6,000.00           |
| 48       | litres | A262 Corrosion Inhibitor       | \$51.25 .....       | \$2,460.00           |
| 48       | litres | A201 Corroison Inhibitor Aid   | \$26.95 .....       | \$1,293.60           |
| 42       | litres | A255 H2S Scavenger             | \$50.90 .....       | \$2,137.80           |
| 12       | litres | F103 Surfactant                | \$34.55 .....       | \$414.60             |
| 18       | litres | W54 Non-Emulsifying Agent      | \$37.30 .....       | \$671.40             |
| 48       | litres | U42 Chelating Agent            | \$21.00 .....       | \$1,008.00           |
| 3        | kg     | L58 Iron Stabilizer            | \$91.10 .....       | \$273.30             |
| 1        | each   | 6% B.C. Surcharge              | \$1,560.52 .....    | \$1,560.52           |
| 1        | each   | Acid Cartage                   | billed direct ..... | <u>billed direct</u> |

**Price Book Total Estimate: \$27,569.22**

**Discounted Total Estimate: \$15,163.07**

### NOTE:

Discount from current Price Book for standard services and materials: 45%

M3 Soda Ash, per kg (discounted): \$2.48

Acid Pumper Standby, per hour (discounted): \$230.29

Supervisor, per person, per day (no discount): \$916.90

Operator, per person, per day (no discount): \$779.10

Anadarko to supply fuel for all Schlumberger units while they are on location.

This quotation is valid for a period of 90 days, and is subject to the General Terms and Conditions of Schlumberger Canada Limited or to the terms and conditions of a Master Service Agreement if one is in force between Anadarko Canada Corporation and Schlumberger.



## SAFETY CONSIDERATIONS

### SAFE HANDLING OF CHEMICALS

Chemicals vary greatly in hazardous properties. Some chemicals can be handled safely without any special protective equipment, while others do require such equipment. Of the materials to be used on this treatment, special considerations should be given to the following:

15% HCl Acid

A201 Corrosion Inhibitor Aid

F103 Surfactant

U42 Chelating Agent

M3 Soda Ash

A262 Corrosion Inhibitor

A255 H<sub>2</sub>S Scavenger

W54 Non-Emulsifying Agent

L58 Iron Stabilizer

For further information regarding safe handling guidelines and potential health hazards, please refer to "A Guide of the Hazardous Properties of Schlumberger Products", a Schlumberger safety publication, and/or to Schlumberger Material Safety Data Sheets.

### STANDARD HOOK-UP

In addition to the safe handling of chemicals, proper procedures for on-location operations must be followed to ensure a safely conducted treatment. Schlumberger's publication "Safety & Loss Prevention Standards 5, 9, 11" provides specific information regarding job planning, hook-up, pressure testing, preparation of fluids, pumping flammable and combustible fluids, emergency shutdown, flow back procedures and other pertinent information.

### PUMPING FLAMMABLE AND COMBUSTIBLE FLUIDS

Special consideration is warranted when pumping flammable and combustible fluids, as defined in Schlumberger's "Safety & Loss Prevention Standard 5, Section VIII". It is necessary to determine if the fluid is of a HIGH RISK NATURE and to follow appropriate procedures for handling.

**TUBING PICKLE, ACID WASH AND SELECTIVE ACID SQUEEZE PROGRAM  
FOR  
ANADARKO CANADA CORPORATION**

**ANADARKO EMILE LAKE A-77  
60° 46' 9.6" N LATITUDE, 122° 43' 33.9" W LONGTITUDE  
SLAVE POINT FORMATION**

**ATTENTION: MR. DAVE SALAHUB**

Art Unger  
Anadarko DESC Engineer  
Business: (403) 231-0107  
Cell: (403) 620-3159  
Fax: (403) 231-0251  
E-mail: [unger@calgary.oilfield.slb.com](mailto:unger@calgary.oilfield.slb.com)

March 19, 2004  
Calgary, Alberta

Service From District:  
Fort St. John: (250) 785-4467

Anadarko Emile Lake A-77 ACSQ Slave Point Selective-Acid.doc  
/au



**WELL DATA**

|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
| WELL NAME:                      | Anadarko Emile Lake A-77                               |
| LOCATION:                       | 60° 46' 9.6" N Latitude, 122° 43' 33.9" W Longitude    |
| STATUS:                         | Gas Well                                               |
| FORMATION:                      | Slave Point                                            |
| FRACTURE GRADIENT:              | 17.0 kPa/metre (estimated)                             |
| PERFORATIONS:                   | 1,997.0 metres to 2,010.0 metres<br>13 shots per metre |
| CASING:                         | 178 mm, 38.69 kg/metre, L-80 to ±1,868 metres          |
| LINER:                          | 114 mm, 17.26 kg/metre, L-80 to ±2,265 metres          |
| TUBING:                         | 73 mm, 9.67 kg/metre, J-55                             |
| TUBING CAPACITY:                | 0.0030 m <sup>3</sup> /metre                           |
| LINER CAPACITY:                 | 0.0081 m <sup>3</sup> /metre                           |
| TUBING/LINER ANNULAR CAPACITY:  | 0.0039 m <sup>3</sup> /metre                           |
| TUBING/CASING ANNULAR CAPACITY: | 0.0158 m <sup>3</sup> /metre                           |
| B.H.S.T:                        | 110°C                                                  |
| B.H.S.P.:                       | 17.7 MPa                                               |
| H <sub>2</sub> S:               | 0.5%                                                   |
| CO <sub>2</sub> :               | 20%                                                    |
| SELECTIVE ACIDIZING TOOL:       | 1.0 metre spacing                                      |

## DESIGN SUMMARY

|                                       |                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACID SYSTEM:                          | 15% HCl Acid containing:<br>0.8% A262 Corrosion Inhibitor (6 hours protection)<br>0.8% A201 Corrosion Inhibitor Aid (6 hours protection)<br>0.7% A255 H <sub>2</sub> S Scavenger<br>0.2% F103 Surfactant<br>0.3% W54 Non-Emulsifying Agent<br>0.8% U42 Chelating Agent<br>0.5 kg/m <sup>3</sup> L58 Iron Stabilizer |
| TUBING PICKLE:                        | 0.75 m <sup>3</sup> 15% HCl Acid Blend                                                                                                                                                                                                                                                                              |
| ACID WASH:                            | 0.25 m <sup>3</sup> 15% HCl Acid Blend                                                                                                                                                                                                                                                                              |
| ACID SQUEEZE:                         | 6.5 m <sup>3</sup> 15% HCl Acid Blend                                                                                                                                                                                                                                                                               |
| TOTAL ACID VOLUME:                    | 7.5 m <sup>3</sup> 15% HCl Acid Blend                                                                                                                                                                                                                                                                               |
| BOTTOMHOLE FRACTURE PRESSURE:         | + 33.9 MPa                                                                                                                                                                                                                                                                                                          |
| HYDROSTATIC HEAD (ACID):              | - <u>21.0 MPa</u>                                                                                                                                                                                                                                                                                                   |
| SURFACE FRACTURE PRESSURE:            | = 12.9 MPa                                                                                                                                                                                                                                                                                                          |
| MAXIMUM SURFACE<br>TREATING PRESSURE: | 10.0 MPa                                                                                                                                                                                                                                                                                                            |

### NOTE:

- Sufficient M3 Soda Ash is to be brought to location to neutralize acid returns.



## TREATMENT PROCEDURE

1. Move in and rig up Schlumberger Equipment to perform a tubing pickle, acid wash and selective acid squeeze treatment.
2. Conduct a safety and procedure meeting with all personnel present before treatment begins.
3. Fill and pressure test the treating lines to 30 MPa.
4. With the hole full and the selective acidizing tool spotted above the perforations ( $\pm 1,995$  metres), circulate  $0.75 \text{ m}^3$  acid down the tubing to tubing bottom at a maximum pump rate of  $0.4 \text{ m}^3/\text{minute}$ . Hold backpressure on the annulus to prevent u-tubing.
5. Reverse circulate the acid out of the well at a maximum pump rate of  $0.4 \text{ m}^3/\text{minute}$ .
6. Position the circulating valve of the selective acidizing tool just below the bottom perforation ( $\pm 2,011$  metres).
7. Circulate  $0.25 \text{ m}^3$  acid down the tubing to tubing bottom. Hold backpressure on the annulus to prevent u-tubing.
8. Wash the acid past the perforations in five stages of  $0.05 \text{ m}^3$  per stage. Hold 2.0 MPa backpressure on the first wash and increase the backpressure by 2.0 MPa for each additional wash.
9. Reverse circulate the acid out of the well.
10. Position the selective acidizing tool across the bottom metre of perforations.

## TREATMENT PROCEDURE CONTINUED

11. Circulate the remaining acid down the tubing to tubing bottom. Hold backpressure on the annulus to prevent u-tubing.
12. Squeeze 0.5 m<sup>3</sup> of acid. **Do not exceed fracture pressure.**
13. Position the selective acidizing tool across the next metre of perforations and squeeze 0.5 m<sup>3</sup> of acid. **Do not exceed fracture pressure.**
14. Repeat Step 13 for the remaining perforations.
15. Position the circulating valve of the selective acidizing tool below the perforations.
16. Reverse circulate any residual acid out of the well.
17. Rig out Schlumberger equipment.
18. Swab the well back and evaluate.



## COST ESTIMATE

| Quantity | Unit   | Description                    | Unit Price          | Quantity Price       |
|----------|--------|--------------------------------|---------------------|----------------------|
| 1        | each   | Acid Pumper                    | \$3,050.00 .....    | \$3,050.00           |
| 1        | each   | High Pressure Squeeze Manifold | \$1,215.00 .....    | \$1,215.00           |
| 1        | each   | High Pressure Selective Hose   | \$1,300.00 .....    | \$1,300.00           |
| 1        | each   | CemCAT Job Recorder            | \$920.00 .....      | \$920.00             |
| 650      | km     | Pumper Travel Charge           | \$8.10 .....        | \$5,265.00           |
| 7,500    | litres | 15% HCl Acid                   | \$1.00 .....        | \$7,500.00           |
| 60       | litres | A262 Corrosion Inhibitor       | \$51.25 .....       | \$3,075.00           |
| 60       | litres | A201 Corroison Inhibitor Aid   | \$26.95 .....       | \$1,617.00           |
| 53       | litres | A255 H2S Scavenger             | \$50.90 .....       | \$2,697.70           |
| 15       | litres | F103 Surfactant                | \$34.55 .....       | \$518.25             |
| 23       | litres | W54 Non-Emulsifying Agent      | \$37.30 .....       | \$857.90             |
| 60       | litres | U42 Chelating Agent            | \$21.00 .....       | \$1,260.00           |
| 4        | kg     | L58 Iron Stabilizer            | \$91.10 .....       | \$364.40             |
| 1        | each   | 6% B.C. Surcharge              | \$1,778.42 .....    | \$1,778.42           |
| 1        | each   | Acid Cartage                   | billed direct ..... | <u>billed direct</u> |

**Price Book Total Estimate: \$31,418.67**

**Discounted Total Estimate: \$17,280.27**

### NOTE:

Discount from current Price Book for standard services and materials: 45%

M3 Soda Ash, per kg (discounted): \$2.48

Acid Pumper Standby, per hour (discounted): \$230.29

Supervisor, per person, per day (no discount): \$916.90

Operator, per person, per day (no discount): \$779.10

Anadarko to supply fuel for all Schlumberger units while they are on location.

This quotation is valid for a period of 90 days, and is subject to the General Terms and Conditions of Schlumberger Canada Limited or to the terms and conditions of a Master Service Agreement if one is in force between Anadarko Canada Corporation and Schlumberger.

## SAFETY CONSIDERATIONS

### SAFE HANDLING OF CHEMICALS

Chemicals vary greatly in hazardous properties. Some chemicals can be handled safely without any special protective equipment, while others do require such equipment. Of the materials to be used on this treatment, special considerations should be given to the following:

15% HCl Acid

A201 Corrosion Inhibitor Aid

F103 Surfactant

U42 Chelating Agent

M3 Soda Ash

A262 Corrosion Inhibitor

A255 H<sub>2</sub>S Scavenger

W54 Non-Emulsifying Agent

L58 Iron Stabilizer

For further information regarding safe handling guidelines and potential health hazards, please refer to "A Guide of the Hazardous Properties of Schlumberger Products", a Schlumberger safety publication, and/or to Schlumberger Material Safety Data Sheets.

### STANDARD HOOK-UP

In addition to the safe handling of chemicals, proper procedures for on-location operations must be followed to ensure a safely conducted treatment. Schlumberger's publication "Safety & Loss Prevention Standards 5, 9, 11" provides specific information regarding job planning, hook-up, pressure testing, preparation of fluids, pumping flammable and combustible fluids, emergency shutdown, flow back procedures and other pertinent information.

### PUMPING FLAMMABLE AND COMBUSTIBLE FLUIDS

Special consideration is warranted when pumping flammable and combustible fluids, as defined in Schlumberger's "Safety & Loss Prevention Standard 5, Section VIII". It is necessary to determine if the fluid is of a HIGH RISK NATURE and to follow appropriate procedures for handling.





10624-101 Avenue, Fort St. John, BC. V1J-2B9  
Phone (250) 785-2731

Lot Number: 299707  
Report Number: 535187  
NWL Sample ID: 1152500

## Gas Analysis

Page: 1 of 1

Anadarko Canada Corporation

nwl 30843 / nwl 30605

Container Identity

A-77

Operator

Anadarko Arrowhead River A-77

Location

Well Name

KB Elev, m

GR Elev, m

Arrowhead

Slave Point

Tim

Wespro

Field/Area

Pool / Zone

Sampler

Company

Prod

Test Type

No

Multiple Recovery

No

Test Recovery:

Test Interval, m

Meter Run

Sample Point

Meter # / Sample ID

Type of Production:

Pumping

Flowing

Gas Lift

Swab

Production Rates:

Water

m<sup>3</sup>/d

Oil

m<sup>3</sup>/d

Gas

280.00

10<sup>3</sup> m<sup>3</sup>/d

Perforations, m

1997-2010

Gauge Pressure, kPa

448

400

Temperature, °C

19

18

Source

Sampled

Received

Date On

Date Off

2004-04-04

23:45

2004-04-07

2004-04-14

Date Sampled (Y-M-D)

Time Sampled

Date Received (Y-M-D)

Date Reported (Y-M-D)

Other Information

| Comp. | Mole Fraction<br>(Air Free) |               | Petroleum<br>Liquid Content<br>mL/m <sup>3</sup> |
|-------|-----------------------------|---------------|--------------------------------------------------|
|       | As Received                 | Acid Gas Free |                                                  |
| H2    | 0.0000                      | 0.0000        |                                                  |
| He    | 0.0021                      | 0.0023        |                                                  |
| N2    | 0.0618                      | 0.0694        |                                                  |
| CO2   | 0.1095                      | 0.0000        |                                                  |
| H2S   | Trace                       | 0.0000        |                                                  |
| C1    | 0.8253                      | 0.9268        |                                                  |
| C2    | 0.0012                      | 0.0014        | 4.3                                              |
| C3    | 0.0001                      | 0.0001        | 0.4                                              |
| IC4   | 0.0000                      | 0.0000        | 0.0                                              |
| nC4   | 0.0000                      | 0.0000        | 0.0                                              |
| iC5   | 0.0000                      | 0.0000        | 0.0                                              |
| nC5   | 0.0000                      | 0.0000        | 0.0                                              |
| C6    | 0.0000                      | 0.0000        | 0.0                                              |
| C7    | 0.0000                      | 0.0000        | 0.0                                              |
| C8    | 0.0000                      | 0.0000        | 0.0                                              |
| C9    | 0.0000                      | 0.0000        | 0.0                                              |
| C10+  | 0.0000                      | 0.0000        | 0.0                                              |
| Total | 1.0000                      | 1.0000        | 4.7                                              |

### Gross Heating Value - Moisture Free

MJ/m<sup>3</sup> @15°C, 101.325 kPa

| AGA #5      | AGA #5        | GPA 2172    |
|-------------|---------------|-------------|
| As Received | Acid Gas Free | As Received |
| 31.27       | 35.11         | 31.27       |

### Pseudocritical Properties

| Pressure, kPa | Temperature, K |
|---------------|----------------|
| 4820          | 198.8          |

### Density - Moisture Free, As Sampled

Ideal Gas (AGA #5)

Real Gas (GPA 2172)

| Absolute, kg/m <sup>3</sup> | Relative | Absolute, kg/m <sup>3</sup> | Relative |
|-----------------------------|----------|-----------------------------|----------|
| 0.839                       | 0.685    | 0.840                       | 0.686    |

### Relative Molecular Mass

Hydrogen Sulphide

Vapour Pressure

Total Gas

C7+

g/m<sup>3</sup>

Pentanes Plus, kPa

19.84

0.04

0

H2S by tester: 30 ppm (Dräger)

Approved by:

Chris Jorven

Manager, Fort St. John

Note: Physical constants used in calculations from GPA Standard 2145-03