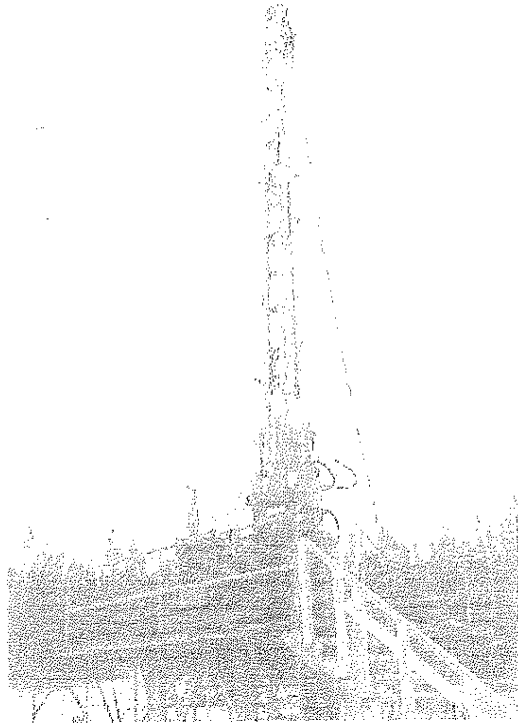


# **Final Well Report**

**American Reserves Energy (Canada) Corporation  
Flat Bay #93-101 #1**



**Compiled by: Darren Lilly for the Department of Mines and Energy, Petroleum Resource  
Development Division**

## Foreword

American Reserve Energy (Canada) Corporation was notified of its default of obligations under the Petroleum Regulations with respect to the well termination and site restoration of the well, Flat Bay 93-101 #1. The Department of Mines and Energy therefore utilized the monies deposited under section 14 of the *Petroleum Drilling Regulations* to offset the costs of well abandonment and site restoration. Due to American Reserve's failure to supply a Final Well Report, as required in Section 151 of the *Petroleum Drilling Regulations*, this report was compiled by using all the information available by Petroleum Technology workterm student, Mr. Darren Lilly, with assistance from department staff.



## **Table of Contents**

<b>1.00 Introduction</b>	<b>1</b>
1.01 Well Location	1
1.02 General Information	1
1.03 Difficulties	2
<b>2.00 Drilling Operations</b>	<b>2</b>
2.01 Elevation	3
2.02 TotalDepth	3
2.03 Spud Date	3
2.04 Date Drilling Completed	3
2.05 Rig Release Date	3
2.06 Well Status	3
2.07 Hole Sizes and Depth	3
2.08 BitRecords	3
2.09 Casing and Cementing Record	4
2.10 Sidetracked hole	4
2.11 Drilling Fluid	4
2.12 Fluid Disposal	4
2.13 Fishing Operations	4
2.14 Well Kicks	4
2.15 Formations Leak-off Tests	4
2.16 Time Distribution	5
2.17 Deviation Plot	7
2.18 Abandonment/Suspension Plugs	7
2.19 Well Schematic	7
2.20 Fluid Samples	7
2.21 Composite Well Record	7
<b>3.00 Geology</b>	<b>8</b>
3.01 Drillcuttings	8
3.02 Cores	8
3.03 Lithology	8
3.04 Stratigraphic Column	8
3.05 Biostratigraphic Data	8
<b>4.00 Well Evaluation</b>	<b>9</b>
4.01 Down Hole Logs	9
4.02 Synthetic Seismogram	9
4.03 Vertical Seismic Profile	9
4.04 Velocity Survey	9

4.05 Formation Stimulation	9
4.06 Formation Flow Tests	9
<b>5.00 OtherData</b>	<b>10</b>
5.0 1 Mud Loggers Report	10
5.02 Directional and Deviation Survey	10
5.03 Final legal Survey	10
5.04 Core Photos and Analysis	10
5.05 Gore Analysis	10
5.06 Fluid Analysis	10
5.07 Oil, Gas and Water Analysis Report(s)	10
5.08 Geological, Biostratigraphy, Petrological, Palynological, Porosity and Paleontological Reports	10
5.09 Well Termination Record	10

## **List of Figures**

Figure 2 - Schematic

Figure 3 - Vertical Seismic Profile

## **List of Appendices**

Appendix I - Well Data Summary

Appendix II- Government Approvals

Appendix III- Daily Drilling Reports

Appendix IV- Drill Bit Record

Appendix V- Composite Well Record

Appendix VI- Stratigraphic Column

Appendix VII- Diamond Drill Core logs

Appendix VIII- Lithology

Appendix IX - Final Legal Survey

Appendix X - Well Termination Record

**American Reserve Energy (Canada) Corp.**  
**Flat Bay 93 - 101 #1**

**Introduction**  
**1.00**

## **1.0 Introduction**

The Flat Bay 93-101 #1 exploration well was drilled by American Reserve Energy Canada Corporation (AREC) and is located in Western Newfoundland approximately 4 km south east of Flat Bay, in the Bay St. George Sub-basin. The purpose of the well was to investigate the potential for oil and gas in the area, by targeting the Carboniferous aged source rock of the Ship Cove and Spout Falls Formations, as well as Cambro-Ordovician allochthonous sediments.

The well was spudded on July 1<sup>st</sup>, 2000 by East Coast Drilling using a Clearwater, artesian well type rig. This rig was used to drill the first 15 m of the well, at which time the 178 mm conductor pipe was installed and cemented to the surface. On July 6<sup>th</sup> the well was suspended due to issues relating to a possible salt resource and the requirement of the operator to provide a salt drilling plan.

Drilling resumed on July 28<sup>th</sup> with the Longyear 32 rig from East Coast Drilling before being suspended once again on August 4<sup>th</sup> at a depth of 29m due to drilling difficulties. On August 14<sup>th</sup> a decision was made to start drilling approximately 2m away from the original hole.

East Coast Drilling successfully drilled this second hole to approximately 220m before it was suspended once again due to salt deposit problems. East Coast Drilling was then to formulate a revised salt plan. However the proposed plan was no longer in accordance with regulations due to major deviations from the original plan. Drilling was then halted by the Department of Mines and Energy on May 30<sup>th</sup>, 2001.

On July 17<sup>th</sup>, 2001 drilling operations were taking over by Petro Drilling using a JKS-BBS 56 rig. On August 9<sup>th</sup> Petro successfully drilled to a TD of 661m. Due to down hole problems associated with the top of salt location, the well was abandoned on October 25, 2001.

### **1.01 Well Location**

The Flat Bay #1 well was drilled on permit #93-103, N.T.S Map Sheet (Figure 1). The well is located 4 km southeast of Flat Bay beside highway #403 with access directly off the highway (north side) and can be seen on the final legal survey (Appendix IX).

### **1.02 General Information**

A Well Data Summary is attached as Appendix I.

#### **Well Name**

Flat Bay 93-101 #1

#### **Exploration Permit**

The well was drilled on Permit 93-101 under the authority of Drilling Program Approval (DPA) #2000-121-01 and Authority to Drill a Well (ADW) #2000-121-01, both issued on June 30<sup>th</sup>, 2000. When the well was continued, Drilling Program Approval (DPA) #2001- 121 -01 and Authority to Drill a Well (ADW) #2001-121-01 were issued. (Appendix 11).

### **Location Co-ordinates**

The NAD 27 UTM coordinates of the well are as follows:

Northing: 5359964.4 m

Easting: 386037.8 m

Elevation: 50.0 m

*Please note that the above coordinates are for the proposed well location and were obtained from a site survey by Yates and Woods Newfoundland Surveyors, marked June 19, 2000. These coordinates are the most accurate available at this time.*

### **1.02 Difficulties and Delays**

Difficulties encountered while were as follows:

- In the early stages of drilling the conductor hole to approximately 30 m, problems were encountered and the drilling company decided to reposition the rig to a new location 5 m from the original location.
- The pipe became stuck in hole at approximately 216 m, and fishing attempts failed to retrieve the stuck pipe. The decision was made to drill through the stuck pipe.
- Drilling continued, encountering the halite of the Codroy Road Formation. The Department of Mines and Energy then suspended drilling as the approved drilling plan for salt had not been suitably followed.
- A new salt drilling plan was proposed by the drilling company that was accepted by the Department. Drilling continued until the pipe became stuck once more. The well was suspended shortly after (See Figure 2).
- Upon abandonment, a new drilling company resumed drilling. They too eventually abandoned the well.

**American Reserve Energy (Canada) Corp.**  
**Flat Bay 93 - 101 #1**

**Drilling Operations**  
**2.00**

## **2.0 Drilling Operations**

A summary of the daily drilling operations are contained in Appendix III - Daily Drilling Reports.

### **2.01 Elevation**

Elevation above mean sea level is as follows:

Ground- 50.0m

K.B.- 55.4m

### **2.02 Total Depth**

Total: 661 m.

### **2.03 Spud Date**

The well was spudded July 1<sup>st</sup>, 2000 at 10:00 hrs.

### **2.04 Date Drilling Completed**

The well reached 661 m TD on August 9<sup>th</sup>, 2001 at 24:00 hrs.

### **2.05 Rig Release Date**

The drilling rig was released on October 25<sup>th</sup>, 2001.

### **2.06 Well Status**

Abandoned

### **2.07 Hole Sizes and Depth**

156 mm to 12 m

168 mm to 49 m

114.3 mm to 143 m

96 mm to 220.2 m

76 mm to 661 m

### **2.08 Bit Records**

Drill bit record outlined in Appendix IV2.09

### **2.09 Casing and Cementing Record**

Casing used for this hole was as follows:

- Conductor drive pipe 168 mm at 50 m.
- Surface casing 1 14 m HW at 143 m.

Surface casing cemented with 4.5 tonnes of Class "A" cement plus 2% CaCl<sub>2</sub>, @ 1870 kg/m<sup>3</sup>. Tagged cement top at 112 m.

Old and new holes were abandoned and cemented. This is outlined in section 2.18.



### **2.10 Sidetracked Hole**

The hole was sidetracked due to stuck pipe. It was sidetracked at approximately 175 m by East Coast Drilling. The hole was sidetracked for the second time by Petro Drilling Co. at approximately 216 m. In both cases kick off plug was utilized.

### **2.11 Drilling Fluid**

A viscous salt brine mud was used with an average density of 1010 kg/m<sup>3</sup>

### **2.12 Fluid Disposal**

Drilling Fluid contained in tanks was transported and disposed by Pardy's Waste Management and Industrial Services Limited, located in Pasadena, Newfoundland.

### **2.13 Fishing Operations**

Two fishing operations were conducted on this well. The first fishing operation took place at approximately 175 m on February 12<sup>th</sup> 2001, but were not successful. The second unsuccessful fishing operation took place at 173.7 m on August 9<sup>th</sup> 2001. Fishing problems were avoided by simply drilling through the obstructions. These problems were probably caused by hard rock formations.

### **2.14 Well Kicks**

Two gas kicks were encountered during the drilling operation. The first was 188 m on May 24<sup>th</sup> 2001 and the second was 196 m on May 25<sup>th</sup>, 2001.

### **2.15 Formation Leak-Off Tests**

Leak off test conducted at 146 m. 1200 kPa surface pressure was applied for 15 minutes December 15<sup>th</sup>, 2000. This yielded a formation integrity of 18.3 kPa/m or MACP of 1243 kPa with 1010 kg/m<sup>3</sup> drilling fluid density.

### **2.16 Time Distribution**

The following time break down is for the Clearwater rig. The Clearwater spud date was July 3<sup>rd</sup>, 2000 and drilled to a total depth of 15 m.

<b><u>Activity</u></b>	<b><u>Total Hours</u></b>
Drilling	5
Rig to spud	1
Run Casing	2
Circ. & Cond.	0.5
Cementing	2
Run 10" Pipe	1.5
Unload Casing	1
Drive Casing	1.5
Standby	59

The following time break down is for East Coast rig #1 (Longyear 34). East Coast Drilling rig was on site from July 29<sup>th</sup> to August 15<sup>th</sup>, 2000. Drilled to a TD of 29 m.

<b><u>Activity</u></b>	<b><u>Total Hours</u></b>
Coring	4
Tripping	38.5
Reaming	36.6
Headup	7.5
Rig Repair	128.5
Rig up to Spud	11
Circ. & Cond.	7
Coring	4
Retrieve Core	1.5
Clean Out Pump	0.5
Wait On HW Casing	5
Rig Up Lights	1
Retrieve Inner BBL	3
Work Pins Free	1

The following time break down is for the return of the Clearwater rig. At this point they have moved off the original hole and moved to a new hole approximately 1.5 m from the original hole. This time Clearwater is on site from August 16 to August 22<sup>nd</sup>, 2000 and drilled to a TD of 143 m.

<b><u>Activity Total</u></b>	<b><u>Hours</u></b>
Drilling	20.5
Tripping	7.5
Reaming	5
Headup	1
C.T.B.	2
Rig Up To	
Run Casing	0.5
Run Casing	5.5
Circ. & Cond	3
Wait On Crew	2
Dig Cellar	2
Drive Pipe	18.5
BOP Drill	0.5
Standby	12

The following time break down is for the East Coast Rig Longyear 38. Due to insufficient time breakdown in daily reports, some assumptions were made. Assumed 12 hour days. East Coast was on site from August 23<sup>rd</sup>, 2000 to May 30<sup>th</sup>, 2001 and drilled to a TD of 216 m.

<b><u>Activity</u></b>	<b><u>Total Hours</u></b>
Wait on Cementers	13
Wait on Cement	6
Cementing	5
Nipple Up	12
Headup	6
Pressure Test	8.5
Drill Out Cement	12
Rig Repair	236.5
W.O.W	140
W.O.P	21 1
Coring	102
Fishing	219
Milling	48
BOP Drill	4
BOP Test	2.5
POOH	185
TIH	63
Shovel Snow	15
Reaming	86
Circ. & Cond. Mud	43
TOOH	10
Standby	12

The following time breakdown is for the Petro Drilling Co. who took over the drilling process when East Coast walked away. Petro Drilling was on site from July 17<sup>th</sup>, 2001 to August 9<sup>th</sup>, 2001. Petro Drilling Co. drilled to a TD of 661 m using a JKS-BBS 56 rig, before abandoning the well.

<b><u>Activity Total</u></b>	<b><u>Hours</u></b>
Coring	118
Fishing	39
Milling	36
POOH	46.5
RIH	34.5
W.O.P	12
Ream	33
Circ. & Cond. Mud	6
Bit Change	4

## 2.17 Deviation Plot

Only two deviation surveys are conducted for this well.

<b><u>Depth (meters)</u></b>	<b><u>Deviation (degrees)</u></b>
175	1
394	2

### **2.18 Abandonment/Suspension Plugs**

The original hole was abandoned and plugged on August 24<sup>th</sup>, 2000. The hole was cemented with 0.25 tonnes of Class "A" cement, and the plate and riser were also welded on.

The well was abandoned October 25<sup>th</sup>, 2001 at 661m. Two cement plugs were placed in the hole, from 128 to 175 m which consisted of 0.4 m<sup>3</sup> of Class "A" + 3% CaCl<sub>2</sub>. And from 10 to 20 m which consisted of 0.085 m<sup>3</sup> of Class "A" neat.

Casing was cut at approximately 1 m from surface at bottom of collar. Steel Plate was welded on casing stub and well marker installed.

### **2.19 Well Schematic**

A detailed well schematic containing relevant wellbore information is attached. (See Figure 2).

### **2.20 Fluid Samples**

No fluid samples were taken.

### **2.21 Composite Well Record**

Outlined in Appendix V.

American Reserve Energy (Canada) Corp.  
Flat Bay 93 - 101 #1

**Geology**  
**3.00**

## **3.0 Geology**

### **3.01 Drill Cuttings**

No cuttings were taken because entire hole was cored.

### **3.02 Cores**

Coring began at a depth of 143 m and ended at 661 m. The well was drilled using a water well rig up to 143 m. The cores collected are stored at the Department of Mines and Energy's core storage facility in Pasadena, Newfoundland. All core boxes are numbered in sequence and depth intervals are clearly labeled (Appendix VII).

### **3.03 Lithology**

A detailed description of drill core was compiled and is included in Appendix VII.

### **3.04 Stratigraphic Column**

A stratigraphic column is provided as Appendix VI.

### **3.05 Biostratigraphic Data**

No biostratigraphic analysis has been carried out on core samples.

American Reserve Energy (Canada) Corp.  
Flat Bay 93 - 101 #1

**Well Evaluation**  
**4.00**

## **4.0 Well Evaluation**

### **4.01 Downhole Logs**

Downhole logging operations were not conducted.

### **4.02 Synthetic Seismogram**

Not applicable.

### **4.03 Vertical Seismic Profile**

Provided as Figure 3.

### **4.04 Velocity Surveys**

Not applicable.

### **4.05 Formation Stimulation**

Not applicable.

### **4.06 Formation Flow Tests**

Not applicable.



American Reserve Energy (Canada) Corp.  
Flat Bay 93 - 101 #1

**Other Data**  
**5.00**

## **5.0 Other Data**

### **5.01 Mud Loggers Report**

Not applicable.

### **5.02 Directional and Deviation Survey**

See Section 2.17.

### **5.03 Final Legal Survey**

The final legal survey by Yates and Woods Ltd. is contained in Appendix IX.

### **5.04 Core Photos**

Not Applicable.

### **5.05 Core Analysis**

Not Applicable.

### **5.06 Fluid Analysis**

Not applicable.

### **5.07 Oil, Gas and Water Analysis Report**

Not Applicable.

### **5.08 Geochemical, Biostratigraphic, Petrological, Palynological, and Paleontological Reports**

Not applicable.

### **5.09 Well Termination Record**

Outlined in Appendix X.

Figure 1

Map Sheet



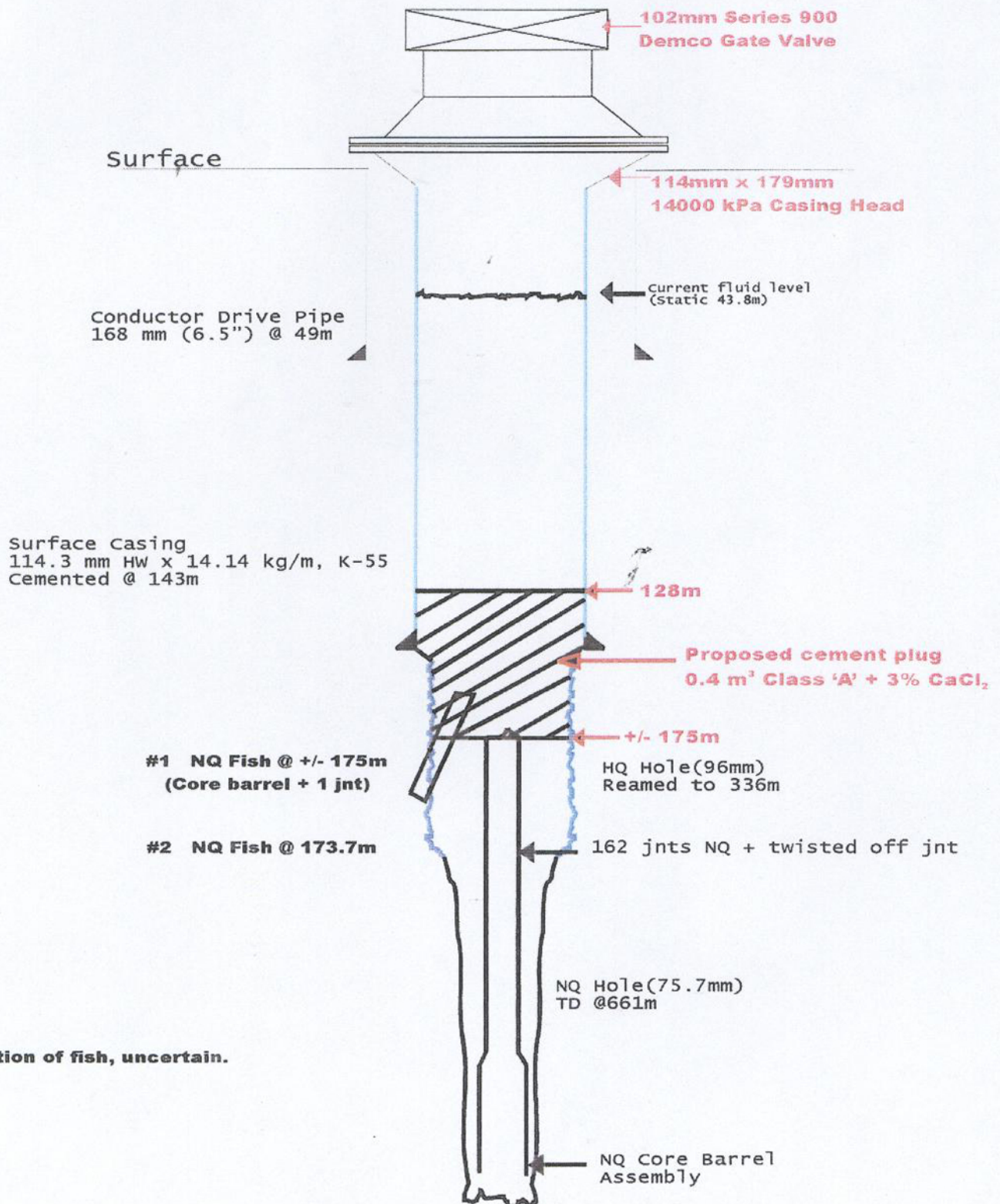
Figure 2

Schematic



# American Reserve Energy

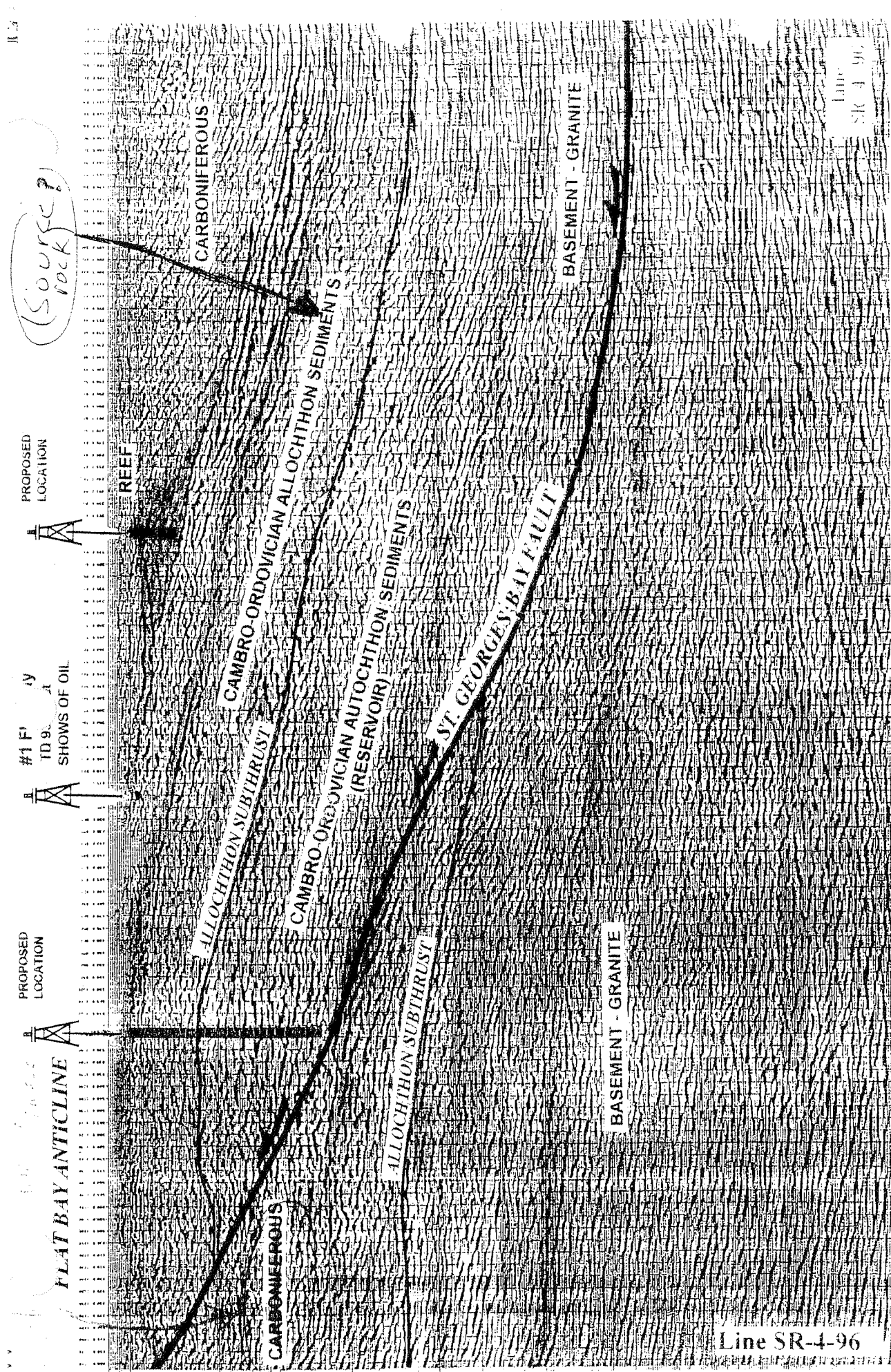
## Flat Bay 93-101 #1



**Note:**  
Orientation of fish, uncertain.

Figure 3

Vertical Seismic Profile



(Source?)  
rock

Line  
SR-4-96

Line SR-4-96

Submitted By AMERICAN RESERVE ENERGY (Canada) Corp)  
previous to drilling Flat Bay #1 well



**Appendix I**  
**Well Data Summary**

**Well Data Summary**

<b><u>Well Name:</u></b>	Flat Bay #1		
<b><u>Well Location</u></b>	Flat Bay Area, 4 km southeast of Flat Bay		
<b><u>Surface Location</u></b>	5359.990m N	366.625m E	
<b><u>U.W.I</u></b>	N/A	<b><u>Well License #</u></b>	93 - 103
<b><u>Field Name</u></b>	N/A	<b><u>AFE #</u></b>	N/A
<b><u>Elevations</u></b>	<b>Ground</b> 50.0m <b>K.B.</b> 55.4m		
<b><u>Contractor</u></b>	East Coast Drilling then Petro Drilling Co.	<b><u>Rig #</u></b>	Longyear 38 JKS-BBS 56
<b><u>Spud Date and Time</u></b>	July 01, 2000 @ 10:00am		
<b><u>Hole Size</u></b>	156mm to 12m 168mm to 49m 114.3mm to 143m 96mm to 220.2m 76 mm to 671m		
<b><u>Total Depth</u></b>	<b><u>Meters</u></b> 671m		
<b><u>Drill Stem Tests</u></b>	None		
<b><u>Coring</u></b>	Began at 143m and continued to 643m.		
<b><u>Open Hole Logs</u></b>	None		
<b><u>Wellsite Supervision</u></b>	<b>Geologist</b> <b>Drilling Superintendent</b> <b>Drilling Supervisor</b> <b>Project Manager</b>	Kevin England Ed Weiterman, Greg Walsh, Bill Williams Roy Sorvisto Roland Strickland	

## **Appendix II**

### **Government Approvals**



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR

Department of  
Mines and Energy

# AUTHORITY TO DRILL A WELL

## APPLICATION

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*<sup>1</sup> and in compliance with section 29 of the *Petroleum Drilling Regulations*<sup>1</sup>, AMERICAN RESERVE ENERGY CANADA, as operator,  
hereby applies for Authority to Drill a Well to be known as FLAT BAY 93-101#1  
using the equipment and procedures described in the well program dated JUNE 2000  
Permit, Licence or Lease to which this Program applies: 93-103

Area: <u>FLAT BAY</u> Field/Pool: <u>N/A</u>	<b>CO-ORDINATES</b>	
	Long: <u>58° 31' 52.8" W</u> Lat: <u>48° 23' 6.5" N</u>	UTM (NAD 27) Northing: <u>5359.990</u> Easting: <u>386.625</u>
Drilling Rig: <u>HA Longyear 34 and HS-150</u> Rig Type: <u>SLIM HOLE CORING RIGS</u> Drilling Contractor: <u>HA East Coast Drilling Co.</u>	<b>ELEVATION</b>	<b>DEPTH</b>
	RT/KB/RF: <u>N/A</u> G.L.: <u>50m</u>	T.D.: <u>500m</u> TVD: <u>500m</u>
<b>ESTIMATES</b>		<b>TARGET HORIZONS</b>
Spud Date: <u>JUNE 30/00</u> Days on Location: <u>15</u>	Well Cost: <u>D+A \$284,000</u>	<u>SHIP COVE FORMATIONS</u>

## EVALUATION PROGRAM

Ten-metre sample intervals: <u>CONTINUOUS CORE</u>	Conventional cores at:
Five-metre sample intervals:	Logs and Tests: <u>LOGS: RESISTIVITY, NEUTRON,</u>
Canned sample intervals:	<u>SONIC, GR, SP, CAL. DST POSSIBLE</u>

## CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program
178			112	CONDUCTOR DRIVEN - NO CEMENT
114.68	17.4	J-55	140	CL A + 3% CaCl <sub>2</sub> - to surface - 30% excess
89			500	CL G to surface - 20% excess over sole
Other Equipment:				

The undersigned operator's Representative hereby declares that, to the best of the Representative's knowledge, the information contained herein and in the attached detailed program is true, accurate and complete.

Signed: [Signature]  
Operator's Representative

Date: June 5/2000

## AUTHORIZATION

Whereas the Minister of Mines and Energy is successor in jurisdiction to the Minister responsible for the Petroleum Directorate and has jurisdiction under the *Petroleum Drilling Regulations*, ("the Regulations").

In accordance with section 32 of the Regulations, the operator named in the Application is authorized to undertake the proposed well program described above subject to the following conditions:

1. This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their acquisition;
3. The operator shall comply with all conditions of the Drilling Program Approval No. 2000-121-01 under which the above well is to be drilled;
4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;
5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and
6. The operator shall comply with such other conditions as are appended to this Authorization.

Signed: [Signature]  
Director

Effective Date: June 30/2

Authority to Drill a Well No. 2000-121-01-01

<sup>1</sup> R.S.N. 1990, c. P-10

<sup>1</sup> CNR 1150/96



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR

Department of  
Mines & Energy

## DRILLING PROGRAM APPROVAL

### APPLICATION

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*<sup>1</sup>, AMERICAN RESERVE ENERGY CANADA  
as operator on behalf of \_\_\_\_\_, holding a  
subsisting licence, permit or lease issued pursuant to the *Petroleum Regulations*<sup>2</sup>, namely: 93-101,  
(licence, permit, or lease #)  
hereby applies for approval to conduct a drilling program using the drilling rig N/A  
and equipment and procedures described in the detailed program dated JUNE, 2000.

The undersigned operator's Representative hereby declares that, to the best of the operator's knowledge, the information contained herein and in the attached detailed program is true, accurate and complete.

Signed: [Signature]  
Operator's Representative

Date: June 5/2000

### APPROVAL

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*, the operator named in the Application is hereby authorized to conduct the proposed drilling program subject to the following conditions:

1. This Drilling Program Approval shall, unless otherwise extended or terminated, expire upon the 30<sup>th</sup> day of September, 2000, or expiry of the permit whichever is earlier;
2. This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
3. Evidence of financial responsibility, as required pursuant to Section 14 of the *Petroleum Drilling Regulations*<sup>3</sup>, shall be provided by the operator to the Minister of Mines and Energy;
4. The operator shall use the equipment and procedures described in the detailed program dated June 8, 2000 as revised June 22, 2000, June 28, 2000 and June 30, 2000, unless a change in the equipment or procedures is approved in writing by the Director; and
5. The operator shall comply with such other conditions as are appended to this Approval. - See Schedule 'A'

Signed: [Signature]  
Director

Effective Date: June 30/2000

Drilling Program Approval No. 2000-121-01

<sup>1</sup> R.S.N. 1990, c. P-10

<sup>2</sup> CNR 1151/96

<sup>3</sup> CNR 1150/96



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR

Department of  
Mines and Energy

# AUTHORITY TO DRILL A WELL

## APPLICATION

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act* and in compliance with section 29 of the *Petroleum Drilling Regulations*, American Reserve Energy (Canada) Corporation, as operator, hereby applies for Authority to Drill a Well to be known as Flat Bay 93-101 #1 using the equipment and procedures described in the well program dated July 16<sup>th</sup> June, 2001 (with Revisions) permit, Licence or Lease to which this Program applies: 93-101

Area: Flat Bay	<b>COORDINATES</b>	
Field/Pool: N/A	Long: 58 31' 52.8 W Lat: 48 23' 6.5" N	Northing: 5359.990 Easting: 386.625
Drilling Rig: JKS-BBS 56	<b>ELEVATION</b>	
Rig Type: Slim Hole Continuous Core	RT/KB/RF: N/A G.L.: 50 m	T.D.: 500 m TVD: 500 m
Drilling Contractor: Petro Drilling Co.	<b>TARGET HORIZONS</b>	
Spud Date: June 30 <sup>th</sup> , 2001	Well Cost: C\$ 1.0 MM	Fishcell's Conglomerate
Days on Location: 30 Days		

## EVALUATION PROGRAM

metre sample intervals: Continuous Core	Conventional cores at: N/A
metre sample intervals:	Logs and Tests: Resistivity, GR & Sonic
Canned sample intervals:	Density & Micro Logs and DST (If Applicable)

## CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m)	Cementing Program
168		A-589	50	As per Programme
114		K-55	143	As Per Programme
88.9	11.46	HQ	370	As Per Programme
69.9	7.59	HCY	500	As Per Programme
Other Equipment:				

The undersigned operator's Representative hereby declares that, to the best of the Representative's knowledge, the information contained herein and in the attached detailed program is true, accurate and complete.

Signed: R. Strain  
Operator's Representative

Date: July 16/2001

## AUTHORIZATION

Whereas the Minister of Mines and Energy is successor in jurisdiction to the Minister responsible for the Petroleum Directorate and has jurisdiction under the *Petroleum Drilling Regulations*, ("the Regulations").

In accordance with section 32 of the Regulations, the operator named in the Application is authorized to undertake the proposed well program described above subject to the following conditions:

1. This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
2. Copies of all logs and well test data shall be submitted to the director by the operator promptly after their acquisition;
3. The operator shall comply with all conditions of the Drilling Program Approval No. 2001-121-01 under which the above well is to be drilled;
4. No change in the well program hereby approved may be made unless it is first approved by the director in writing;
5. This Authorization is conditional on the operator commencing drilling within 120 days of the effective Authorization date; and
6. The operator shall comply with such other conditions as are appended to this Authorization.

Signed: G. J. [Signature]  
Director

Effective Date: 16 July 2001

Authority to Drill a Well No. 2001-121-01-01



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR

Department of  
Mines & Energy

## DRILLING PROGRAM APPROVAL

### APPLICATION

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*, American Reserve Energy (Canada) Corporation, as operator on behalf of American Reserve Energy (Canada) Corporation, holding a subsisting licence, permit or lease issued pursuant to the *Petroleum Regulations*<sup>2</sup>, namely: EP 93-101

(licence, permit, or lease #)

hereby applies for approval to conduct a drilling program using the drilling rig JKS-BBS 30 and equipment and procedures described in the detailed program dated June 2001 with revisions.

The undersigned operator's Representative hereby declares that, to the best of the operator's knowledge, the information contained herein and in the attached detailed program is true, accurate and complete.

Signed: \_\_\_\_\_

Operator's Representative

Date: \_\_\_\_\_

JULY 16/2001

### APPROVAL

Pursuant to sections 8 and 9 of the *Petroleum and Natural Gas Act*, the operator named in the Application is hereby authorized to conduct the proposed drilling program subject to the following conditions:

1. This Drilling Program Approval shall, unless otherwise extended or terminated, expire upon the 15<sup>th</sup> day of September, 2001;
2. This Authorization shall be prominently displayed at the well site at all times during which operations are being conducted;
3. Evidence of financial responsibility, as required pursuant to Section 14 of the *Petroleum Drilling Regulations*<sup>3</sup>, shall be provided by the operator to the Minister of Mines and Energy;
4. The operator shall use the equipment and procedures described in the detailed program dated June 2001 with revisions, unless a change in the equipment or procedures is approved in writing by the Director; and
5. The operator shall comply with such other conditions as are appended to this Approval. (See attached Schedule 'A')

Signed: \_\_\_\_\_

Director

Effective Date: \_\_\_\_\_

16 July 01

**Appendix III**  
**Daily Drilling Reports**











# DAILY DRILLING REPORT

# DAILY DRILLING REPORT

DATE - MEAN	DATE
DAYS FROM SPUD	00-07-03
TOTAL DAYS	2
WEATHER & TIDE	Cloudy + 12
WKS TO CL	AFR
OPERATION	DRILL WATER
FORMER	SURFACE
DAILY COSTS	3670
CUM COSTS	3656

WELL NAME  
**AMERICAN RESERVE Flat Bay 93-101 #1**

DRIVER  
**12**

PROGRESS  
**12**

STATION  
**STANDBY**

WELL NO.  
**93-101 #1**

DATE LOG  
**03-03-03**

WELL TYPE  
**DRILLER**

## 2 DRILLING FLUID

FLUID TYPE	AIR	THICK CHECKED	DEPTH CHECKED	MUD ENG	LOG COMPANY
SAMPLE FROM		SAND READINGS	CM. GRIDS	FL TEMP	MUD PRESSURE GRADIENT
WGT			PI	WATER	MUD CYCLE-DRAIN HOLE (mm)
VISC			PM	SOIL	CIRCULATE BOTTOMS UP (mm)
ST. W.	HT NP	PV	IMM	WDR LOS	MUD VOLUME IN TANKS
PH		VO	CALCIUM	CUM RATIO	MUD VOLUME IN HOLE
TC		0.01	WGT	FE	TOTAL MUD VOLUME
MUD ADDITIVES (SP. UNITS)			CAUSTIC	SABITS	
MUD ADDITIVE COSTS	DAILY		CUM		
USED ON MUD COSTS ALLOCATED	DAILY		CUM		
MUD DIESEL COSTS	DAILY		CUM		
TOTAL WATER COSTS	DAILY		CUM		

## 3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UP WT	UP RATE	HOURS
DEBRAND						
DESLTER						
CENTRIFUGE						
DEGASER						
SHAKER						
SCREEN MESH						

## 4 FLUID VOLUMES & DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	MAKE	SERIAL	SIZE	WHS
WATER (FRESH)		JARS				
DIESEL		ES				
USED OIL MUD		STAB				
VOLUMES DUMPED						
LOST TO FORMATION						
OTHER						

## 6 BIT DATA AND HYDRAULICS

NO	SIZE	TYPE	SERIAL	JETS	FROM	TO	DRILLED	HOURS	ROP	CUM MRS	T	B	D
	8 1/2	PERCUSSION			0	12	12	3 1/2					
	6 1/4	PERCUSSION			12	15	3	1 1/2					
NO	WEIGHT	SPM	TORQUE	STH WT	LINE SIZE	SPW	PRESSURE	PUMP RATE	DP VEL	DC VEL	WGT VEL		

## 7 SURVEYS


## 8 DRILLING ASSEMBLY

## 9 TIME BREAKDOWN

DRILLING	4 1/2	MEASUR	RIG UP TO	LOGGING	LAY DOWN
TRIPPING		PRESS TEST	RUN CASING	GEORING	RUN IN PIPE
RESETTING		SLIP & CUT	CIRC & COND	TESTING	UNLOAD
STANDBY		CYS	CEMENTING	CIRC SAMPLES	DRIVE CAS - 1 1/2
RIG & SCPE		RIG REPAIR	WDC	RIG UP	STANDBY - 1

## 10 REMARKS

Used Casing Etc. Drill to 5m. Hole Sloughed IN.  
 Drive 10" Pipe to 5m. Drive 8 1/2" Hole to 12m. Circ & Wash Hole.  
 Clean Pick Up & Make Up 177.8mm Casing. Run in to 11m. Bailed Off  
 Make Up Bit (6 1/4") & D.P. Run Inside 177.8mm Casing. Ream & Drill to  
 12m. Drive 177.8mm Casing to 15m. In 15m Casing 13m  
 & Nip. Rig Up to & Cement w/10 Sacks Portland Cement.  
 Cap Casing Below. Rig on Standby @ 21:00 Hrs 00-07-02.

# DAILY DRILLING REPORT

<b>DAILY DRILLING REPORT</b>		<b>DAYS WEL</b>	<b>DATE</b> 07-04
		<b>DAYS FROM SPUD</b> 3	<b>WEATHER &amp; TIDE</b> CLEAR +12
		<b>TOTAL DAYS</b> 6	<b>AIR</b>
<b>WELL NAME</b>	HARRISON RENDON FLAT SAN 93-101#1	<b>RISER</b>	CLEAR WATER
<b>DEPTH</b> 12	<b>THROST</b>	<b>SURFACE</b>	SUPEROO
<b>BURNING SUPERVISOR</b> E. SANCHEZ	<b>PHONE</b> 803-3723	<b>REPORT TAKEN BY</b> GARY BROOKER	<b>DAILY COSTS</b> 4820
<b>DRILLING FIRM</b>	<b>TOOL RIG</b>	<b>DAYS LAST STOP</b>	<b>COSTS</b> 41385

## 2 DRILLING FLUID

FLUID TYPE		TIME CHECKED	DEPTH CHECKED	MUD ENG	MUD COMPANY
SAMPLE FROM:		PANN READINGS	CHLORIDES	FL TEMP	MUD-PRESSURE-GRAVITY
MST		SSD	PT	SWATER	MUD-CYCLE-MAIN HOLE (min)
MBC		SSD	PM	SOIL	CIRCULATE BOTTOMS UP (min)
API	HYTH	SV	LRN	SOLIDS	MUD VOLUME IN TANKS
DL	W	VP	CALCIUM	DW RATIO	MUD VOLUME IN HOLES
PC		GELS	MST	ES	TOTAL MUD VOLUME
MUD ADDITIVES (GAL USG)		GEL	CAUSTIC	BARITE	
MUD ADDITIVE COSTS		CUM		MUD DIESEL COSTS	DAILY CUM
USED OR MUD COSTS ALLOCATED		CUM		TOTAL WATER COSTS	DAILY CUM

## 2 SOLID CONTROL

ITEM	NAME	TOTAL PUMP RATE	OP WT	LP WT	LF RATE	MOUSEP
DEGASER						
DESLTER						
CONTR/VALVE						
DEGASER						
SPARKER		SCHEFFER AND SON				

## 4 FLUID VOLUMES & DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	NAME	REMARKS	DATE	WELL
WATER (FRESH)			JAWG			
DIESEL			SS			
USED OR WASH			ETAG			
VOLUMES CUMULATED						
LOSS TO FORMATION						
OTHER						

## 8 BIT DATA AND HYDRAULICS

[illegible]

## • DRILLING ASSEMBLY

### TIME BREAKDOWN

TIME BREAKDOWN				
DRILLING	HEADUP	WALK UP TO _____	LOGGING	LAY DOWN _____
TRIPPING	PRESS TEST	RUN CASING	CORING	<del>SAND</del> 24
BEAMING	BLIP CUT	CIRC & COND	TESTING	
SHUVEY	CTS	CEMENTING	CIRC SAMPLES	
REA SOPE	WIG REPAIR	WCC	PICK UP _____	

10 REMARKS RIG ON SUNDAY WAITING FOR EASTCOAST DEMOLITION  
RIG TO ARRIVE

STANDARD COSTS FOR RICE: \$12.00/Day  
NOTE: REVISED COST SHEET

# DAILY DRILLING REPORT

DAILY DRILLING REPORT										DATE - M&U		DATE	
										DAYS FROM START		WEATHER & TEMP	
										TOTAL DAYS		APR	
WELL NAME <b>AMERICAN RESERVE FLAT #1</b>										RHS to GL		RHS	
DEPTH <b>15</b>										FORMATION <b>Big ON STANLEY</b>		FORMATION <b>SURFACE</b>	
DRILLING SUPERVISOR <b>Ray G. Saviotto</b>										REPORT <b>Ray G. Saviotto</b>		DAILY COSTS <b>\$160</b>	
2 DRILLING FLUID										DATE LAST <b>10/3/80</b>		CUM COSTS <b>44543</b>	
FLUID TYPE		TIME		DEPTH		MUD		MUD		MUD			
SAMPLE FROM		PRESSURE READINGS		CHLORIDES		FL TEMP		MUD PRESSURE GRABENT		MUD			
WGT		MUD		M		WATER		MUD CYCLE MAIN MUD (Mm)		MUD			
VISC		MUD		M		MUD		CIRCULATE BOTTOMS UP (Mm)		MUD			
API		M		M		MUD		MUD VOLUME IN TANKS		MUD			
PH		M		M		MUD		MUD VOLUME IN MUD		MUD			
PC		M		M		MUD		TOTAL MUD VOLUME		MUD			
MUD ADDITIVES (Mm Mm)		M		M		M		M		M			
MUD ADDITIVE COSTS		DAILY		CUM		MUD DIESEL COSTS		DAILY		CUM			
USED OR MUD COSTS ALLOCATED		DAILY		CUM		TOTAL WATER COSTS		DAILY		CUM			

### 3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OF WT	OF WT	OF RATE	HOURS
DISCHARGE						
DISCHARGE						
CENTRIFUGAL						
DISCHARGE						
SHAKER		SCREEN MESH				

#### 4 FLUID VOLUMES 5 DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	MAKE	SERIAL#	DATE	WHS
WATER (FRESH)		JAG				
DIESEL		SS				
USED ON ROAD		STAG				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

## 6 BIT DATA AND HYRAULICS

[illegible]

## • DRILLING ASSEMBLY

## 9 TIME BREAKDOWN

DRILLING	HEADUP	RIG UP TO _____	LOGGING	LAY DOWN _____
TRIPPING	PRESS TEST	RUN CASING	CORING	STANDARD 24
HOISTING	SLIP & OUT	CIRC & CONO	TESTING	
SURVEY	C T B	CEMENTING	CIRC SAMPLES	
AS & SCOPS	RIG REPAIR	W O C	PICK UP _____	

## 10 REMARKS RISE ON SUNDAY.

[illegible]



# DAILY DRILLING REPORT

08:00 To 20:00 HRS

DATE - DEPT	DATE
DATE FROM SPUD	WEATHER & TIME
TOTAL DAYS	APRIL
1	NO
2	EASTWIND
3	SEAS
4	WIND
5	WAVE
6	WAVE
7	WAVE
8	WAVE
9	WAVE
10	WAVE
11	WAVE
12	WAVE
13	WAVE
14	WAVE
15	WAVE
16	WAVE
17	WAVE
18	WAVE
19	WAVE
20	WAVE
21	WAVE
22	WAVE
23	WAVE
24	WAVE
25	WAVE
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80	WAVE
81	WAVE
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83	WAVE
84	WAVE
85	WAVE
86	WAVE
87	WAVE
88	WAVE
89	WAVE
90	WAVE
91	WAVE
92	WAVE
93	WAVE
94	WAVE
95	WAVE
96	WAVE
97	WAVE
98	WAVE
99	WAVE
100	WAVE

## 2 DRILLING FLUID

[illegible]

### 3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UF WT	UF RATE	HOURS
DESANDER						
DI FILTER						
CENTRIFUGE						
DECLASSER						
THICKER		SCREEN WASH				

## 4 FLUID VOLUMES 5 DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	DATE	SERIAL#	SIG	WTS
WATER (FRESH)		JAN 6				
DIESEL		53				
USED OIL W/UD		8748				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

## ● BIT DATA AND HYRAULICS

[illegible]

## 7 SURVEYS

DRILLING ASSEMBLY Bit 5 Surface H<sub>2</sub>O Drilling Proj. Kenya

### 9 TIME BREAKDOWN

DRILL LOG	HEADUP	REQ UP TO <u>200</u>	LOGGING	LAY DOWN
TRIPPING	PRESS TEST	RUN CASING	CORING	
REAMING	SHIF OUT	CIRC & COND	TESTING	
SURVEY	OTO	CEMENTING	CIRC SAMPLES	
AB & BOFS	RIG REPAIR	WOC	PICK UP	

10 REMARKS R/c Up to Spun. Dis. Flank B/c. Hwy. Senses last for

WENIGERE WIR. ALS DITONER. FÜR MICH TANKI. MIX MICH

Pick Up HQ Red & Cut Core #1 From 15m To 18m. No Recovery.  
Shut Down Overhaul.

Had WSA Confer. & Safety Meeting w/CAPDC Inspection Sides.  
Nipped up Diverter & Flare Line.





## DAILY DRILLING REPORT

07:00 TO 19:00 Hrs.

DAYS - WEEK	DATE
DAYS FROM SPUO	00-07-31
TOTAL DAYS	33
WELL NAME	AMERICAN RESERVE FLAT 349 93-10 #1
DEPTH	20
PROGESS	2
OPERATION	100% 1 MEN/HOUR
DRILLING SUPERVISOR	RAY E. SORVISTO
PHONE	403 803-3723
REPORT TAKEN BY	TERRY BROOKER
LOCATION	EASTCAST #1
POSITION	2000' GEAR
DAILY COSTS	
CUM COSTS	

## 2 DRILLING FLUID

FLUID TYPE	WCL WATER	TIME CHECKED	DEPTH CHECKED	MUD ENG	MUD COMPANY
SAMPLE FROM	TANKS	PANN READINGS	CHLORIDES	FL TEMP	MUD-PRESSURE-GRADIENT
WGT	1010	PH	PH	SWATER	MUD-CYCLE-MAIN HOLE (MHR)
VISC	29	PH	PH	SOIL	CIRCULATE BOTTOMS UP (MHR)
API	NYMP	PV	LIME	SOLIDS	MUD VOLUME IN TANKS
PH	VP	CALCIUM	DAW RATIO		MUD VOLUME IN HOLE
FC	GBL	MBT	ES		TOTAL MUD VOLUME
MUD ADDITIVES (GAL)	GBL	CAUSTIC	BARITE		
MUD ADDITIVE COSTS	DAILY	CUM	MUD DIESEL COSTS	DAILY	CUM
USED OIL MUD COSTS ALLOCATED	DAILY	CUM	TOTAL WATER COSTS	DAILY	CUM

## 3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UP WT	UP RATE	HOURS
DEBRAND						
DESILTER						
CENTRIFUGE						
DEGRASSER						
SHAKER		SCREEN MESH				

## 4 FLUID VOLUMES 5 DOWNHOLE TOOLS

VOLUMES ADDED	ITEM	MAKE	SERIAL	SIZE	HRS
WATER (FRESH)	JARS				
DIESEL	EG				
USED OIL MUD	STAG				
VOLUMES DUMPED					
LOSS TO FORMATION					
OTHER					

## 6 BIT DATA AND HYDRAULICS

NO	SIZE	TYPE	SERIAL	MTS	FROM	TO	DRILLED	HOURS	ROP	CUM HRS	T	B	G
1	9 1/2	WHL	20305		15	20	5	4					

NO	WEIGHT	RPM	TORQUE	STW WT	LINEAR SIZE	SPW	PRESSURE	SLIP RATE	DP VEL	DC VEL	NOZ VEL

## 7 SURVEYS

## 8 DRILLING ASSEMBLY

## 9 TIME BREAKDOWN

DRILLING	HEADUP	RIG UP TO	LOGGING	LAY DOWN
TRIPPING	3 1/2	PRESS TEST	RUN CASING	CORING
READING	6	SLIP & CUT	CIRC & COND	TESTING
SURVEY	CTB	CEMENTING	CIRC SAMPLES	
AS & BOPS	RIG REPAIR	WDC	PCR UP	

## 10 REMARKS

TRIP OUT. CLEAN OUT BIT & LINNER 30'. RUN IN HOLE TO 15m. Circ & Return Hole 15m To 18m. Hole Slowing (Gross) Cut Core From 18m To 20m. RETRIEVE CORE (No Recovery) RETURN & CLEAN HOLE.

# DAILY DRILLING REPORT

[illegible]

## DAILY DRILLING REPORT

DT: 07:00 - 07:00

WELL NAME: <b>AMERICAN REEFER FLAT 13M 93-101 #1</b>		DATE: <b>2000-08-02</b>
DEPTH: <b>29</b>	OPERATOR: <b>TRIPPING Dr.</b>	WEATHER & TIME: <b>Clear + 15</b>
DRILLING SUPERVISOR: <b>ROY E. SORVILATO</b>	PHONE: <b>408 805-3723</b>	APPROX: <b>34</b>
2 DRILLING FLUID: <b>WATER</b>		DATE LAST ROPD: <b>00-07-28</b>
MUD COMPANY: <b>WATER</b>		DRILL COSTS: <b>(5992)</b>
MUD ADDITIVES: <b>WATER</b>		CUM COSTS: <b>53640</b>

FLUID TYPE: <b>WATER</b>	TIME CHECKED: <b>07:00</b>	DEPTH CHECKED: <b>29</b>	MUD ENG: <b>WATER</b>	MUD COMPANY: <b>WATER</b>
SALT FROM: <b>WATER</b>	PANN READINGS: <b>0.00</b>	CHLORIDE: <b>2000</b>	FL TEMP: <b>WATER</b>	MUD-PRESSURE GRADIENT: <b>9.9</b>
WGT: <b>1010</b>	GR: <b>0.00</b>	IN: <b>0.00</b>	SWATER: <b>WATER</b>	MUD-CYCLE-MARK MOLE (MM)
VISC: <b>29</b>	GR: <b>0.00</b>	IN: <b>0.00</b>	NOIL: <b>WATER</b>	CIRCULATE BOTTOMS UP (MM)
AST: <b>WATER</b>	SV: <b>0.00</b>	TIME: <b>0.00</b>	NOIL: <b>WATER</b>	MUD VOLUME IN TANKS
PH: <b>WATER</b>	TF: <b>0.00</b>	CALCIUM: <b>0.00</b>	OW RATIO: <b>WATER</b>	MUD VOLUME IN MOLE
PC: <b>WATER</b>	DEL: <b>0.00</b>	WGT: <b>0.00</b>	ER: <b>WATER</b>	TOTAL MUD VOLUME
MUD ADDITIVES (WATER)	DEL: <b>0.00</b>	CAUSTIC: <b>0.00</b>	SABITE: <b>0.00</b>	
MUD ADDITIVE COSTS	DAILY: <b>0.00</b>	CUM: <b>0.00</b>	MUD DIESEL COSTS	DAILY: <b>0.00</b>
USED ON MUD	DAILY: <b>0.00</b>	CUM: <b>0.00</b>	TOTAL WATER COSTS	DAILY: <b>0.00</b>
COSTS ALLOCATED	DAILY: <b>0.00</b>	CUM: <b>0.00</b>	TOTAL WATER COSTS	DAILY: <b>0.00</b>

## 3 SOLIDS CONTROL

ITEM	DATE	TOTAL PUMP RATE	OF WT	UP WT	UP RATE	HOURS
DEBRIS						
DEBRIS						
CENTRIFUGE						
DEBRIS						
SHAKER						
		SCREEN MESH				

## 4 FLUID VOLUMES 5 DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	MAKE	SERIAL	SIZE	HRS
WATER (FRESH)		WATER				
DIESEL		WATER				
USED OIL MUD		WATER				
VOLUMES DUMPED		WATER				
LOSS TO FORMATION		WATER				
OTHER		WATER				

## 6 BIT DATA AND HYDRAULICS

NO	SIZE	TYPE	SERIAL	JETS	FROM	TO	DRILLED	HOURS	ROP	CUM HRS	T	S	O
1	96mm JKL	20305		15									

## 8 DRILLING ASSEMBLY

## 9 TIME BREAKDOWN

DRILLING	HEADUP DOWNS	ROD UP TO	LOGGING	LAY DOWN
TRIPPING	12	ALM CASING	CORNING	WORK PUFFS - 1
REAMING	SLIP OUT	CIRC & CONO	TESTING	WAT FOR HWS
SURVEY	C/S	CEMENTING	CIRC SAMPLES	CORNING - 2
NO & BOOTS	RIG REPAIR	WOC	PICK UP	REPAIRS - 1

10 REMARKS: **Circ. P.S. Down Diverter. Run HQ Rods. Circ. HWS. Casing. Run HWS. Wait for HWS. Run HWS. In to PW casing. Top of PW @ 12m. Attempt to Run PW. No. Surveys. Circ. & Rate. Came Free. Trip Out & Lay Down PW. Form. It & Bit Missing. Make up & Over & Run. Found Top of Fish @ 18m. Circ. & Work Over Fish. Tripping Out.**

**SAFETY MEETING ON TRIPPING PROCEDURES**





## DAILY DRILLING REPORT

DAYS - WEEK		DATE	
DAYS FROM START		WEATHER & TEMP	
TOTAL DAYS		APR	

1

WELL NAME	AMERICAN RESERVE FLAT BAY 93-IN #1	REMARKS	2.5 m	RIG	EASTCAST #1
DEPTH	2	PROGRESS	OPERATION	TOSSING	GROUP
DIRECTION	E. SOUTHEAST	DATE	00-01-20	DAILY COSTS	660
DRILLING FLUID	WATER	DATE LAST	00-01-20	CUM COSTS	56370

2 DRILLING FLUID

FLUID TYPE	WATER	TIME CHECKED	DEPTH CHECKED	MUD ENG	MUD COMPANY
SAMPLE FROM	FANN READINGS	CHLORIDES	FL TEMP	MUD PRESSURE GRADIENT	
WGT	1010	PH	SWATER	MUD CYCLE MAIN MOLE (MIN)	
VISC	29	PH	SOIL	CIRCULATE BOTTOMS UP (MIN)	
SP. GR.	1.05	TEMP	SOLIDS	MUD VOLUME IN TANKS	
PH	7.5	CALCIUM	OW RATIO	MUD VOLUME IN MOLE	
FC	1	WGT	SS	TOTAL MUD VOLUME	
MUD ADDITIVES (GAL)	GEL	CAUSTIC	BARITE		
MUD ADDITIVE COSTS	DAILY	CUM	MUD DRILL COSTS	DAILY	CUM
USED OR MUD COSTS ALLOCATED	DAILY	CUM	TOTAL WATER COSTS	DAILY	CUM

3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OF WT	USE WT	UP RATE	HOURS
DEBRAND						
DEBRAND						
CENTRIFUGE						
DEBRAND						
SHAKER						
SCREEN MESH						

4 FLUID VOLUMES & DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	MAKE	SERIAL	SIZE	WTS
WATER (FRESH)		JARS				
DIESEL		SS				
USED OIL MUD		STAB				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

5 BIT DATA AND HYDRAULICS

NO	SIZE	TYPE	SERIAL	JOYS	FROM	TO	DRILLED	HOURS	RSP	CUM HRS	T	B	O
1	96	HLK	20304		14								

6 DRILLING ASSEMBLY

NO	WEIGHT	RPM	TORQUE	STR WT	LINER SIZE	SPW	PRESSURE	FLUID RATE	DP VEL	DC VEL	NOZ VEL

7 SURVEYS

8 DRILLING ASSEMBLY

9 TIME BREAKDOWN

DRILLING	HEADUP	RND UP TO	LOGGING	LAY DOWN
TRIPPING	PREP TEST	RUN CASING	CORING	
REPAIRING	SLIP CUT	CIRC & CONO	TESTING	
SURVEY	CTB	CEMENTING	CIRC SAMPLES	
RS & BOPS	RIG REPAIR	WOC	PICK UP	

10 REMARKS

Repair Pump Room HD from 23-24 hrs. Transmission  
 Broken Power Out RIG. Remove Transmission







## FAX COVER

**Terry D. Brooker**  
225 Scarboro Ave. S. W.  
Calgary, Alta. T3C 2H4

CELL: (403) 813 - 1195  
HOME: (403) 229 - 9705  
HOME FAX: (403) 229 - 9842

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DATE: AUG 7, 2000

TO: PAUL TOLLOTT

FAX: (709) 729-2325

PAGES: 1 of 2 (including this transmittal)

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# DAILY DRILLING REPORT

DAYS FROM SPUD	14	WEATHER & TIME	1-10 + 20
TOTAL DAYS	40	APR	

WELL NAME	AMERICAN ROYALS FLAT Box 93-101 #1			DEMAND	2.2 m	RIG	EASTCAST #1
DEPTH	29	PROGRESS		OPERATION	R & Repair	FORMATION	Heavy Grop
DRILLING SUPERVISOR	R. E. Serrano	RADIO PHONE	803-3123	REPORT TAKEN BY	13 Brooks	DAILY COST	
2 DRILLING FLUID	TOOL	CRANE	CRANE	DATE LAST BOP DRILL	02-27-20	LOG COST	

## 2 DRILLING FLUID

WELL TYPE		TIME CHECKED		DEPTH CHECKED		MUD ENG		MUD COMPANY	
SAMPLE FROM:		TANN READINGS		CALCULATED		F. TEMP		MUD-PRESSURE GRADIENT	
WGT 1010		SEC		IN		WATER		MUD-CYCLE-BARREL MOLE (MUD)	
VAC 29		SEC		IN		SOIL		CALCULATE BOTTOMS UP (MUD)	
API 2.5		PV		LIME		MUD LOSS		MUD VOLUME IN TANKS	
PH 9.5		YS		CALCIUM		O/W RATIO		MUD VOLUME IN MOLE	
FC		GELS		MGT		CS		TOTAL MUD VOLUME	
MUD ADDITIVES (IN LBS)		GEL		SAUSTIC		BARITE			
MUD ADDITIVE COSTS		DAILY		CUM		MUD DRESS COSTS		DAILY	
USED OR MUD COSTS ALLOCATED		DAILY		CUM		TOTAL WATER COSTS		DAILY	

### 3 SOLIDS CONTROL

ITEM	GRADE	TOTAL PUMP RATE	OF WT	WF WT	WF RATE	HOURS
DESIGNER						
DESIGNER						
CENTRAL						
DESIGNER						
DESIGNER						
DESIGNER						

## 4 FLUID VOLUMES 5 DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	MAKE	SERIAL	SIZE	WTS
WATCH PRESS		JAGG				
DIESEL		ES				
USED OIL MUD		STAG				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

## 6 BIT DATA AND HYRAULICS

[illegible]

## 8 DRILLING ASSEMBLY

### 9 TIME BREAKDOWN

DRILLING	HEADUP	RIG UP TO	LOGGING	LAY DOWN
TRIPPING	PRESS TEST	RUN CASING	CORING	
MEASURING	SLIPS OUT	CIRC & COND	TESTING	
SURVEY	CTB	CEMENTING	CIRC SAMPLES	
AS & GOPS	RIG REPAIR 12	WOC	SHUT UP	

## 10 REMARKS

16 REMARKS Located A Transmission For Rig INSTALLING HYDRAULIC  
CHUCK. WARDEN WORKING.  
RIG SHOULD BE GOING BY TONIGHT.

1

10 REMARKS RE Repair

[illegible]

## FAX COVER

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DATE: AUG 10, 2000

TO: PAUL TOLL07

FAX: (709) 729-2325

PAGES: 1 of 2 (including this transmittal)

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## 1

## 2 DRILLING FLUID

## 3 SOLIDS CONTROL

## 8 BIT DATA AND HYDRAULICS

NO	WEIGHT	RPM	TORQUE	STAMP	LINER SIZE	SPM	PRECURE	PLANT RATE	OP VEL	DC VEL	NOZ VEL	7 SURVEYS
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### 10 REMARKS

REPAIR RIG	REPLACED TRANSMISSION. BUILT & REPLACED COUPLINGS TO ENGINE AND HULL.
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DAILY DRILLING REPORT		DATE FROM 18		DATE TO 20 OCT + 12	
WELL NAME 07-03 To 19:00		TOTAL DAYS 44		AGE	
FLUID NAME Fluorocarbon Fluid Box 93-101 #1		RIG TO CL 23		RIG EASTPORT #1	
DEPTH 29		OPERATION		FORMATION Gravel Gravel	
DRILLER Ray E. Spradley		RADIO 403-3723		REPORT TERRY BROOKER	
SUPERVISOR TODD COLEMAN		DATE LAST 00-07-28		CUM 610	
2 DRILLING FLUID		CUM COSTS		60080	

TIME FROM		TIME CHECKED		DEPTH - CHECKED		MUD ENG		MUD COMPANY	
SAMPLE FROM		FANN READINGS		CUTTINGS		FL TEMP		MUD-PRESSURE GRADIENT	
WGT		1010		1500		WATER		MUD-CYCLING-HOLD (min)	
REC		29		PM		SOIL		CIRCULATE BOTTOMS UP (min)	
REV		RV		MML		WOLVES		MUD VOLUME IN TANK	
PL		VP		CALCIUM		C/W RATIO		MUD VOLUME OF MUD	
PW		GELS		WGT		CS		TOTAL MUD VOLUME	
MUD ADDITIVES (GIVE WTS)		GEL		CAUSTIC		BARITE			
MUD ADDITIVE COSTS		DAILY		CUM		MUD REBEL COSTS		DAILY	
USED OR MUD COSTS ALLOCATED		DAILY		CUM		TOTAL WATER COSTS		DAILY	

ITEM	NUMBER	TOTAL PUMP RATE	OF WT	LF WT	LF RATE	HOURLY
DESIGNER						
DESIGNER						
CENTRAL LOCK						
DESIGNER						
DESIGNER		SCREEN DESIGN				

VOLUMES ADDED		ITEM	MAKE	SERIAL#	SIZE	NOTE
WATER (FRESH)		JARS				
DIESEL		ES				
USED OIL MUD		SPAG				
VOLUMES DUMPED						
LOSS TO FORMATION						
OVERN						

[illegible]


### 9 TIME BREAKDOWN

DILLING	HEADUP	RIG UP TO _____	LOGGING	LAY DOWN _____
TAPPING	PRESS TEST	RUN CASING	CORING	
REASONING	SLIP & CUT	CIRC & COND	TESTING	
SURVEY	C T B	CEMENTING	CIRC SAMPLES	
RIG & BOYS	RIG REPAIR	W O C	PICK UP _____	

[illegible]



[illegible]

[illegible]

## DAILY DRILLING REPORT

DAYS FROM BPOD

21

WEATHER

6 TRUCKS + 22

TOTAL DAYS

47

APPRO

APPRO

AMERICAN RESERVE FLAT BAY 93-101 #1

WELL CL

2.5 -

APPRO

EASTCOAST #1

DEPTH

29

PROGRESS

OPERATION

PRODUCTION

FLAT BAY GROUP

DRILLING

SUPERVISOR R. E. SORVETTO

NAME

PHONE 803-3723

REPORT

TAKEN BY

DATE

10-27-20

CUM

COSTS

610

## 2 DRILLING FLUID

TOOL

PUMP

COLIN CRANE

DATE LAST

BOP DRILL

10-27-20

CUM

COSTS

61910

FLUID

TYPE

WATER

TIME

CHECKED

DEFN

CHECKED

MUD

ENG

LAND

COMPANY

SAMPLING

FREQUENCY

FANN READINGS

SP. GRV

TEMP

WATER

MUD

PRESSURE

GRADIENT

MUD

CYCLE

MAIN

HOLE

INCH

CIRCULATE

BOTTOM

UP

INCH

WGT

1010

WEC

29

SP. GRV

TEMP

WATER

MUD

PRESSURE

GRADIENT

MUD

CYCLE

MAIN

HOLE

INCH

CIRCULATE

BOTTOM

UP

INCH

WGT

1010

WEC

29

SP. GRV

TEMP

WATER

MUD

PRESSURE

GRADIENT

MUD

CYCLE

MAIN

HOLE

INCH

CIRCULATE

BOTTOM

UP

INCH

WGT

1010

WEC

29

SP. GRV

TEMP

WATER

MUD

PRESSURE

GRADIENT

MUD

CYCLE

MAIN

HOLE

INCH

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BOTTOM

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TEMP

WATER

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PRESSURE

GRADIENT

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CYCLE

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CIRCULATE

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PRESSURE

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CYCLE

MAIN

HOLE

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CIRCULATE

BOTTOM

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WATER

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PRESSURE

GRADIENT

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CYCLE

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PRESSURE

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TEMP

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PRESSURE

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WEC

29

SP. GRV

TEMP

WATER

MUD

PRESSURE

GRADIENT

MUD

CYCLE

MAIN

HOLE

INCH

CIRCULATE

BOTTOM

UP

INCH

WGT

1010

WEC

29

SP. GRV

TEMP

WATER

MUD

PRESSURE

GRADIENT

MUD

CYCLE

# DAILY DRILLING REPORT

DAILY DRILLING REPORT		DATE FROM SPUD 22		WEATHER & TEMPERATURE 25°C	
		TOTAL DAYS 40		LOSS 1	
WELL NAME AMERICAN RESERVE FLAT		RAY 93-101 #1		EASTCAST	
DEPTH 29		CHASSIS 114.3		HOL CASINGS	
DIRECTOR ROY E. SORVINO		BOS 3723		REPORT TAKEN BY TERRY BRENNER	
DRILLER		DAY		DAILY COSTS	
				COST 62530	

## 2 DRILLING FLUID

[illegible]

## SOLIDS CONTROL

ITEM	DATE	TOTAL PUMP RATE	OF WT	UP WT	UP RATE	HOURS
00000000						
00000000						
CENTRE PUMP						
00000000						
00000000		00000000				

#### 4 FLUID VOLUMES & DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	MAKE	SERIALS	QTY	USE
WATER (GAL)						
DIESEL						
USED OIL (GAL)						
VOLUMES BURNED						
LOSS TO FORMATION						
OTHER						

## 6 BIT DATA AND HYRAULICS

[illegible]

## DRILLING ASSEMBLY

TIME BREAKDOWN				
ROLLING	READY UP	RIG UP TO	LOGGING	LET DOWN
TAPPING	PRESS TEST	RUN CASING	CORING	
REPAIRING	SLIP SHOT	CIRC & SOUND	TESTING	
SUBMER	ETS	CEMENTING	CIRC SAMPLES	
AS & BOPS	AS REPAIR	WOC	PICK UP	

10 REMARKS WAIT FOR CLEARWATER RIG RIG IN CLEARWATER RIG  
WENT HANGER & R.O. TO 1100m H/W CRACK. HANGER CRACKED  
TRANSFERRED 27.4m 3m LEFT IN HOLE + INT PW & B.T.  
WILL MOVE OVER ABOVE 3m & START NEW HOLE.

[illegible]

# FAX COVER

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DATE: *Aug 6*, 2000

TO: *PAUL ILMUOT*

FAX: *(709) 729-2325*

PAGES: 1 of *2* (including this transmittal)

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[illegible]

DRILLING REPORT

DAYS FROM SPUD	24	WEATHER & TEMPS	00-05-11 CLEAR + 21 C
TOTAL DAYS	50	AFER	
WELL NAME	AMERICAN RESERVE FLAT BAY 93-101 #1		
DEPTH	41 m	PROGRESS	10.5 m
DRILLING SUPERVISOR	Ray C. Sorveto	REPORT TAKEN	03/03/03 003-3723
TOOL PUSHER	COW CRANE	DATE LAST BOP DRILL	00-05-16
FLUID TYPE	AIR	MUD ENG	
TIME CHECKED		DEPTH CHECKED	
FANN READINGS		CHLORIDES	
FL TEMP		MUD-PRESSURE GRADIENT	
WATER		MUD-CYCLE MAIN HOLE (MIN)	
SOIL		CIRCULATE BOTTOMS UP (MIN)	
SOLIDS		MUD VOLUME IN TANKS	
Q/W RATIO		MUD VOLUME IN HOLE	
ES		TOTAL MUD VOLUME	
CAUSTIC		BARITE	
DAILY		CUM	
DAILY		CUM	
DAILY		CUM	

2 DRILLING FLUID

FLUID TYPE	AIR	TIME CHECKED		DEPTH CHECKED		MUD ENG		MUD COMPANY	
SAMPLE FROM?		FANN READINGS		CHLORIDES		FL TEMP		MUD-PRESSURE GRADIENT	
WOT		800		PH		WATER		MUD-CYCLE MAIN HOLE (MIN)	
VISC		300		PH		SOIL		CIRCULATE BOTTOMS UP (MIN)	
API		HTMP		LIME		SOLIDS		MUD VOLUME IN TANKS	
WL		W.L.		CALCIUM		Q/W RATIO		MUD VOLUME IN HOLE	
PH		Y.P.		MGT		ES		TOTAL MUD VOLUME	
FC		GELS							
MUD ADDITIVES (GAL USV)		GEL		CAUSTIC		BARITE			
MUD ADDITIVE COSTS	DAILY			CUM		MUD DIESEL COSTS	DAILY		CUM
USED OIL MUD COSTS ALLOCATED	DAILY			CUM		TOTAL WATER COSTS	DAILY		CUM

3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UF WT	UP RATE	HOURS
DESANDER						
DESILTER						
CENTRIFUGE						
DEGASER						
SHAKER		SCREEN MESH				

4 FLUID VOLUMES 5 DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	MAKE	SERIAL#	SIZE	HRS
WATER (FRESH)		JARS				
DIESEL		SS				
USED OIL MUD		STAB				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

6 BIT DATA AND HYRAULICS

NO	SIZE	TYPE	SERIAL	JETS	FROM	TO	DRILLED	HOURS	ROP	CUM HRS	T	B	G
	156mm	Hammer											

NO	WEIGHT	RPM	TORQUE	STR WT	LINER SIZE	SPM	PRESSURE	PUMP RATE	DP VEL	OC VEL	NOZ VEL

7 SURVEYS

8 DRILLING ASSEMBLY

9 TIME BREAKDOWN

DRILLING	2	HEADUP	RIG UP TO	LOGGING	LAY DOWN
TRIPPING	2	PRESS TEST	RUN CASING	CORING	Drive Pipe 3 1/2"
REAMING	2	SLIP & CUT	CIRC & COND	TESTING	
SURVEY		CTB	CEMENTING	CIRC SAMPLES	
RS & BOPS		RIG REPAIR	WOC	PICK UP	

10 REMARKS

Drive 168mm Pipe From 30.5m To 41m.  
Drill & Clean Out Drive Pipe From 24.5m To 41m w/156mm Bit.  
Drill & Redrill Through Gravel From 31m To 41m.  
  
Head Safety / W/L Control Meeting w/Crews

10 REMARKS  
Drive 16B--a Pipe From 41m To 45.7m  
Drill & CLEAN OUT DRIVE PIPE From 41m To 45.7m w/156mm B.T  
Drill & REDRILL THROUGH GRAVEL & RED BEDS.



# DAILY COST ESTIMATING FORM

WELL NAME: AMERICAN RESERVE FLAT BAY 93-101 F1

DATE: 00-08-19

<b>DRILLING COSTS</b>	
Location Preparation	\$
Road Construction	\$
Rig Mobilization	\$
Clean Up & Maintenance	\$
Rig Time	\$ 20650
Camp & Subsistence	\$
Bits	\$
Mud	\$
Surf. Cement, Cag Serv. & Acc	\$
Extr. Materials & Services	\$
Directional Drlg Services	\$
Elect Logging & Analysis	\$
Water	\$
Testing & Analysis	\$
Coring & Analysis	\$
Mud Logging	\$
Hauling Services	\$
Controllable Equipment	\$
Consultant Services	\$ 750
Other Mat. & Services	\$
Equipment Rentals	\$ 185
Communications	\$ 100
Admin. Overhead	\$
Miscellaneous	\$
Engineering & Design Drlg.	\$
Production Casing	\$
Cementing & Accessories	\$
	\$
	\$
	\$
<b>TOTAL DAILY COST</b>	\$ 21685
<b>PREVIOUS DAILY TOTAL</b>	\$ 79801
<b>ACCUMULATED TOTAL</b>	\$ 101486

# DAILY DRILLING REPORT

09:00 TO 17:30

DAYS - MARL	DATE 2000-08-19
DAYS FROM SPUD 26	WEATHER & TEMP CLEAR +25°C
TOTAL DAYS 52	AFES

WELL NAME	AMERICAN REVENUE FLAT BAY 93-101 #1	RKS to GL	RIG CLEAR WATER
DEPTH 73	PROGRESS 27.3	OPERATION WAITING REVISED PROGRAM APPROVAL	FORMATION COBBLE GROUP
DRILLING SUPERVISOR Roy E. Sorvisto	RADIO (403) 803-3123	REPORT TAKEN BY LORNE HAMMER	DAILY COSTS 9089
TOOL PUSHER COLIN CRANE	DATE LAST ROP DAILY 00-08-16	CUM COSTS 79801	

## 2 DRILLING FLUID

FLUID TYPE CACL WATER	TIME CHECKED	DEPTH CHECKED	MUD ENG	MUD COMPANY
SAMPLE FROM TANKS	FANN READINGS	CHLORIDES 90000	FL TEMP	MUD-PRESSURE-GRADIENT
WGT 1200	400	PH	WATER	MUD-CYCLE-MAIN HOLE (Min)
VISC 29	300	PH	SOIL	CIRCULATE BOTTOMS UP (Min)
API WL	HTWP WL	PV	LIME	SSOLIDS
PH	YP	CALCIUM	OW RATIO	MUD VOLUME IN TANKS 6.5m³
FC	GELS	MBT	ES	MUD VOLUME IN HOLE
MUD ADDITIVES (BY VOLUME)	GEL	CAUSTIC	BARITE	TOTAL MUD VOLUME
CACL 35				
MUD ADDITIVE COSTS	DAILY	CUM	MUD DIESEL COSTS	DAILY
USED OIL MUD COSTS ALLOCATED	DAILY	CUM	TOTAL WATER COSTS	DAILY
				CUM

## 3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UF WT	UF RATE	HOURS
DESANDER						
DESILTER						
CENTRIFUGE						
DEGASSER						
SHAKER						
SCREEN MESH						

## 4 FLUID VOLUMES 5 DOWNHOLE TOOLS

VOLUMES ADDED		ITEM	MAKE	SERIAL	SIZE	WRS
WATER (FRESH)		JARS				
DIESEL		SS				
USED OIL MUD		STAB				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

## 6 BIT DATA AND HYRAULICS

NO	SIZE	TYPE	SERIAL	JETS	FROM	TO	DRILLED	HOURS	ROP	CUM HRS	T	B	G
1	1 1/2	Hammer			0	73	73	12	6.08	12	Good		

NO	WEIGHT	RPM	TORQUE	STN WT	LINER SIZE	SPM	PRESSURE	PUMP RATE	DP VEL	DC VEL	NOZ VEL
	1000	20			450 CFM	AIR	200				

## 7 SURVEYS

## 8 DRILLING ASSEMBLY

## 9 TIME BREAKDOWN

DRILLING 4	HEADUP	RIG UP TO	LOGGING	LAY DOWN
TRIPPING 1	PRESS TEST	RUN CASING	CORING	Drive Pipe 3 1/2
REAMING	SLIP & CUT	CIRC & COND	TESTING	
SURVEY	CTS	CEMENTING	CIRC SAMPLES	
RS&BOPE	RIG REPAIR	WOC	PICK UP	

## 10 REMARKS

Drill From 45.7m To 73m.  
 Drive Pipe From 45.7 To 47m.  
 OPERATIONS SUSPENDED @ 17:30 Hrs. 00-08-18 PENDING APPROVAL  
 OF REVISED DRILLING PROGRAM.

# DAILY COST ESTIMATING FORM

WELL NAME: *AMERICAN RESERVE FLAT BAY 93-101 #1* DATE: *00-08-18*

<b>DRILLING COSTS</b>		
Location Preparation	\$	
Road Construction	\$	
Rig Mobilization	\$	
Clean Up & Maintenance	\$	
Rig Time <i>27.3 m</i>	\$	<i>8054</i>
Camp & Subsistence	\$	
Bits	\$	
Mud	\$	
Surf. Cement, Csg Serv. & Acc	\$	
Extr. Materials & Services	\$	
Directional Drilg Services	\$	
Elect Logging & Analysis	\$	
Water	\$	
Testing & Analysis	\$	
Coring & Analysis	\$	
Mud Logging	\$	
Hauling Services	\$	
Controllable Equipment	\$	
Consultant Services	\$	<i>750</i>
Other Mat. & Services	\$	
Equipment Rentals	\$	<i>185</i>
Communications	\$	<i>100</i>
Admin. Overhead	\$	
Miscellaneous	\$	
Engineering & Design Drilg.	\$	
Production Casing	\$	
Cementing & Accessories	\$	
	\$	
	\$	
	\$	
	\$	
<b>TOTAL DAILY COST</b>	\$	<i>9089</i>
<b>PREVIOUS DAILY TOTAL</b>	\$	<i>70712</i>
<b>ACCUMULATED TOTAL</b>	\$	<i>79801</i>

# DAILY DRILLING REPORT

DAYS - MBL	DATE 2000-08-20
DAYS FROM SPUD 21	WEATHER & TEMP LIGHT RAIN 17°C
TOTAL DAYS 53	AFET
WELL NAME AMERICAN RESERVE FLATBAY 93-101 #1	RKB 10 GL
DEPTH 143	PROGRESS 70
OPERATION DRILL TO CASING DEPTH	FORMATION SURFACE
DRILLING SUPERVISOR Roy E. Sorvisto	RADIO 403/803-3723
REPORT TAKEN BY LORNE HAMMER	DAILY COSTS 21685
DATE LAST ROP DRILL 00-08-19	CUM COSTS 101486

## 2 DRILLING FLUID

FLUID TYPE Kill Mud	TIME CHECKED	DEPTH CHECKED	MUD ENG	MUD COMPANY
SAMPLE FROM?	FANN READINGS	CHLORIDE 40.000	FL TEMP	MUD-PRESSURE-GRADIENT
WT 1200	800	PH	%WATER	MUD-CYCLE-MAIN HOLE (Min)
VISC 29	300	PH	%OIL	CIRCULATE BOTTOMS UP (Min)
API WL	HTHR WL	PV	%SOLIDS	MUD VOLUME IN TANKS
PH	YP	CALCIUM	O/W RATIO	MUD VOLUME IN HOLE
FC	GELS 1	MBT	ES	TOTAL MUD VOLUME
MUD ADDITIVES (gals/lb)	GEL	CAUSTIC	BARITE	
MUD ADDITIVE COSTS	DAILY	CUM	MUD DIESEL COSTS	DAILY
USED OR MUD COSTS ALLOCATED	DAILY	CUM	TOTAL WATER COSTS	DAILY
				CUM

## 3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UF WT	UF RATE	HOURS
DESANDER						
DESILTER						
CENTRIFUGE						
DEGASSER						
SHAKER		SCREEN MESH				

## 4 FLUID VOLUMES 5 DOWNHOLE TOOLS

VOLUMES ADDED	ITEM	MAKE	SERIAL	SIZE	HRS
WATER (FRESH)	JARS				
DIESEL	SS				
USED OIL MUD	STAB				
VOLUMES DUMPED					
LOSS TO FORMATION					
OTHER					

## 6 BIT DATA AND HYDRAULICS

NO	SIZE	TYPE	SERIAL	JETS	FROM	TO	DRILLED	HOURS	ROP	CUM HRS	T	S	G
1	156	HAMMER			0	143	143	20 1/2	6RB	20 1/2	Good		
NO	WEIGHT	RPM	TORQUE	STR WT	LINER SIZE	SPM	PRESSURE	PUMP RATE	DP VEL	DC VEL	NOZ VEL	7 SURVEYS	
1	1000	20			450 CFM	AIR	200						

## 8 DRILLING ASSEMBLY

## 9 TIME BREAKDOWN

DRILLING 8 1/2	HEADUP 1	RIG UP TO	LOGGING	LAY DOWN
TRIPPING 1 1/2	PRESS TEST	RUN CASING	CORING	Drive Pipe 3 1/2
REAMING	SLIP & CUT	CIRC & COND	TESTING	R.O.P. Drill 1/2
SURVEY	CTB	CEMENTING	CIRC SAMPLES	
RS & ROPS	RIG REPAIR	WOC	PICK UP	

## 10 REMARKS Drive Pipe (168mm) From 47m To 50m.

Nipple Up FGS DIVERTER & FUNCTION TEST.

High Flow Drill W/CREW

Drive 168mm Pipe From 47 to 50m.

Drive From 73m To 143m (156mm Hole).

Circ Hole CLEAN. Trip Out TO CASING SHOES.

SHUT DOWN OVERNIGHT.

1

10 REMARKS STANDBY  
WAIT FOR COMETREAS

## 1

WELL NAME	AMERICAN RESERVE FLAT BAY 93-101 #1		AKB to GL	RID	CLEAR WATER
DEPTH	143	PROGRESS	OPERATION	FORMATION	SURFACE
DRILLING SUPERVISOR	R. E. S. SMITH	RADIO PHONE	REPORT TAKEN BY	DAILY COSTS	10.25
DRILLING PLANT	TOOL	DATE LAST	CUM COSTS		103131

TOOL PUSH *Colin Crane*

FLUID TYPE		TIME CHECKED		DEPTH CHECKED		MUD ENG		MUD COMPANY	
SAMPLE FROM?		FANN READINGS		CHLORIDES		FL TEMP		MUD-PRESSURE-GRADIENT	
WGT		800		PI		WATER		MUD-CYCLE-MAIN HOLE (Min)	
VISC		300		PM		SOIL		CIRCULATE BOTTOMS UP (Min)	
API WL	HTHP WL	PV		LIME		SOLIDS		MUD VOLUME IN TANKS	
PM		YP		CALCIUM		O/W RATIO		MUD VOLUME IN HOLE	
FC		GELS		MBT		ES		TOTAL MUD VOLUME	
MUD ADDITIVES (Spore Counts)		GEL		CAUSTIC		BARITE			
MUD ADDITIVE COSTS		DAILY		CUM		MUD DIESEL COSTS		DAILY	
USED OIL MUD		DAILY		CUM		TOTAL WATER COSTS		DAILY	
								CUM	

## 4 FLUID VOLUMES 5 DOWNHOLE TOOLS

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UF WT	UF RATE	HOURS
DESANDER						
DESILTER						
CENTRIFUGE						
DEGASSER						
SHAKER		SCREEN MESH				

VOLUMES ADDED		ITEM	MAKE	SERIAL#	SIZE	WDS
WATER (FRESH)		JARS				
DIESEL		53				
USED OIL MUD		STAB				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

[illegible][illegible]

\_\_\_\_\_

DRILLING	HEADUP	RIG UP TO RUN CASING 1 1/2	LOGGING	LAY DOWN
TRIPPING 1	PRESS TEST	RUN CASING 5 1/2	CORING	
REAMING	SLIP & CUT	CIRC & COND 3	TESTING	
SURVEY	CTB 2	CEMENTING	CIRC SAMPLES	
RS & ROPE	RIG REPAIR	W O C	PICK UP	

10 REMARKS Run In From CONDUCTOR SIDE TO BOTTOM, CLEAN 3m OF FILL.

Circ Hole Clean Trip Out  
Riser 114.3m SURFACE CASING  
Circ Casing 4m To Bottom  
Wait For Consultants

1

P/E DOWNE LEAD BUT CLEARWATER RIG

•

WELL NAME		AMERICAN RESERVE FLAT BAY 93-101 #1		RKB 10 GL		R/E	
DEPTH		PROGRESS		OPERATION		FORMATION	
143				W.O.C.		EAST COAST #1	
DRILLING SUPERVISOR		RADIO PHONE		REPORT TAKEN BY		DAILY COSTS	
ROY E. SORVISTO		403/803-3723		TERRY BROOKER		1034	
2 DRILLING FLUID		TOOL PUMP		DATE LAST BOP DRILL		CUM COSTS	
		COLIN CRANE		00-02-19		104828	

FLUID TYPE GALZ		TIME CHECKED		DEPTH CHECKED		MUD ENG		COSTS 104625	
SAMPLE FROM TANKS Kim Mgr		FANN READINGS		CHLORIDES 190,000				MUD COMPANY	
WGT 1200		800		PI		FL TEMP		MUD-PRESSURE-GRADIENT	
VISC 29		300		Pm		SWATER		MUD-CYCLE-MAIN HOLE (MIN)	
API WL		HTNP WL		PV		SOIL		CIRCULATE BOTTOMS UP (MIN)	
PM		YP		LIME		SOLIDS		MUD VOLUME IN TANKS	
FC		GELS		CALCIUM		O/W RATIO		MUD VOLUME IN HOLE	
MUD ADDITIVES (GAL) (LBS)		GEL		MBT		ES		TOTAL MUD VOLUME	
		CAUSTIC		BARITE					
MUD ADDITIVE COSTS		DAILY		CUM		MUD DIESEL COSTS		DAILY	
USED OIL MUD COSTS ALLOCATED		DAILY		CUM		TOTAL WATER COSTS		DAILY	

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UF WT	UF RATE	HOURS
DESANDER						
DESILTER						
CENTRIFUGE						
DEGASSER						
SHAKER		SCREEN MESH				

VOLUMES ADDED		ITEM	MAKE	SERIAL#	SIZE	WTS
WATER (FRESH)		JARS				
DIESEL		56				
USED OIL MUD		STAB				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

NO	SIZE	TYPE	SERIAL	JETS	FROM	TO	DRIILLED	HOURS	R.O.P.	CUM HRS	T	B	G
NO	WEIGHT	RPM	TORQUE	STRT WT	LINER SIZE	SPM	PRESSURE	PUMP RATE	D.P VEL	O.C VEL	NOZ VEL	7 SURVEYS	

8 DRILLING ASSEMBLY

---

9 TIME

## 7 SURVEYS

## 8 DRILLING ASSEMBLY

## 9 TIME BREAKDOWN

DRILLING	HEADUP	RIG UP TO _____	LOGGING	LAY DOWN _____
TRIPPING	PRESS TEST	RUN CASING	CORING	Wait For Cement Press
REAMING	SLIP & CUT	CMC & CONO	TESTING	1
SURVEY	CTB	CEMENTING	CIRC SAMPLES	
RS & SOPS	RIG REPAIR	WOC	PICK UP _____	

### 10 REMARKS

10 REMARKS WAIT ON CONCRETERS. RIGUP CONCRETE  
Ran 21 Jts. 114.3mm 14.4kg/m K-55 ST+C. BRO CASING LANE @ 143m KB.  
CEMENTED W/4.5 TUNNER CLASS "A" + 270 CACIZ @ 1870kg/m<sup>3</sup> PLUS DOWN  
@ 14'00 HRS. CO-OB-23.  
ABANDONED OLD HOVE W/ 25' TUNNER CLASS "A". WELDED ON PLATE & RISER.  
W.D.C.

## Surface Casing





10 REMARKS  
MOVE EASTWAST 100 FEET  
WIDE ON BRIDGE

1

Nippus Up 13.0.P.

1

WELL NAME	AMERICAN RESERVE FLAT BAY 93-101 #1		RKB TO GL	250m	R/O	EASTCOAST #1
DEPTH	143	PROGRESS	OPERATION		FORMATION	
		PRESSURE TEST B.O.P.		SURFACE		
DRILLING SUPERVISOR	Ray E. Sanvinto	RADIO PHONE	(403) 803-3723	REPORT TAKEN BY	TERRY BROOKER	
TOOL		DATE LAST		DAILY COSTS		
10-08-26		10-08-26		1035'		
				CUM COSTS		
				107931		

TOOL  
PUSH COLI

### 3 SOLIDS CONTROL

**4 FLUID VOLUMES 5 DOWNHOLE TOOLS**

## 6 BIT DATA AND HYRAULICS

NO	WEIGHT	RPM	TORQUE	STR WT	LINER SIZE	SPM	PRESSURE	PUMP RATE	OP VEL	OC VEL	NOZ VEL

7 SURVEYS

**8 DRILLING ASSEMBLY**

## 8 DRILLING ASSEMBLY

### 9 TIME BREAKDOWN

### 10 REMARKS

FINISH NIPPING UP B.O.P.  
PRESSURE TESTED CASING, BLIND RAN, UPPER & LOWER ANNULARS  
HCR VALVE, CHOKES LINE, CHOKES MANIFOLD, KELLY COCK AND  
STABBING VALVE TO 1500 KPA LOW & 10,000 KPA HIGH FOR 10  
MINS EACH TESTED O.K.  
CHECKED MOTOR PINS O.K.  
CONDUCTED RIG INSPECTION USING CADC CHECKLIST.  
HAD WELSH CONTROL MEETING / B.O.P. DRILL W/ CREWS.

1

WELL NAME	AMERICAN RESERVE FLAT BAY 93-101 #1			RKB TO GL	230 -	RID	EASTCOAST #1
DEPTH	143	PROGRESS	OPERATION			FORMATION	
DRILLING SUPERVISOR	RAY E. SORLISO		RADIO PHONE	REPORT TAKEN BY		DAILY COSTS	SURFACE
2 DRILLING FLUID		TOOL PUSH	COLIN CRANE		DATE LAST BOP DRILL	CUM COSTS	1039
					00-08-26	108966	

FLUID TYPE <b>CALZ WATER</b>		TIME CHECKED		DEPTH CHECKED		MUD ENG		MUD COMPANY	
SAMPLE FROM: <b>TANK, KIM MUD</b>		FANN READINGS		CHLORIDES <b>190,000</b>		FL TEMP		MUD-PRESSURE GRADIENT	
WGT <b>1200</b>		300		PT		WATER		MUD-CYCLE-MAIN HOLE (MIN)	
VISC <b>29</b>		300		DM		SOIL		CIRCULATE BOTTOMS UP (MIN)	
API W. <b>NTS</b>		PV		LINE		SOLIDS		MUD VOLUME IN TANKS	
PH		YP		CALCIUM		O/W RATIO		MUD VOLUME IN MILE	
FC		GELS		MBT		ES		TOTAL MUD VOLUME	
MUD ADDITIVES (give units)		GEL		CAUSTIC		BARITE			
MUD ADDITIVE COSTS		DAILY		CUM		MUD DIESEL COSTS		DAILY	
USED ON MUD COSTS ALLOCATED		DAILY		CUM		TOTAL WATER COSTS		DAILY	

ITEM	MAKE	TOTAL PUMP RATE	OF WT	UF WT	UF RATE	HOURS
DESANDER						
DESILTER						
CENTRIFUGE						
DEGASSER						
SHAKER		SCREEN MESH				

VOLUMES ADDED		ITEM	MAKE	SERIAL	SIZE	WTS
WATER (FRESH)		JARS				
DIESEL		SS				
USED OIL MUD		STAB				
VOLUMES DUMPED						
LOSS TO FORMATION						
OTHER						

[illegible]

NO	WEIGHT	RPM	TORQUE	STL WT	LINER SIZE	SPM	PRESSURE	PUMP RATE	OP VEL	OC VEL	NOZ VEL	7 SURVEYS	
8 DRILLING ASSEMBLY													

DRILLING <i>Overhaul 4</i>	HEADUP	RIG UP TO _____	LOGGING	LAY DOWN _____
TRAPPING	PRESS TEST	RUN CASING	CORING	<i>PIV/NQR<sub>03</sub>-B</i>
REAMING	SLIP & CUT	CMC & COND	TESTING	
SURVEY	CTB	CEMENTING	CIRC SAMPLES	
RS&BOPS	RIG REPAIR	WOC	PICK UP _____	

Make Up Air Hammer & Bit - Pick Up NQ Drill Rod.  
TAG TOP OF CEMENT @ 100 m  
Drill Out CEMENT From 100 m To 112 m.

**FAX COVER**

**Terry D. Brooker**  
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Calgary, Alta. T3C 2H4

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HOME: (403) 229 - 9705  
HOME FAX: (403) 229 - 9642

DATE: AUG 31, 2000

TO: PAUL TOLLOTT

FAX: (709) 729-2325

PAGES: 1 of 4 (including this transmittal)





# DAILY DRILLING REPORT

DAILY DRILLING REPORT				DAYS - MGR.	DATE
				DAYS FROM SPUO	WEATHER & TEMPERATURE
				TOTAL DAYS	APR
WELL NAME				ARH IN	RIG
DEPTH				PROGRESS	OPERATION
DRILLING SUPERVISOR				ROD LOG	RECORD TAKEN BY
TOOL PUMP				DATE LAST	CUM COSTS
2 DRILLING FLUID				BOE CHILL	CUM COSTS

## 2 DRILLING FLUID

LOG TYPE <b>PACK WATER</b>		TIME CHECKED		DEPTH CHECKED		MUD ENG		MUD COMPANY	
SAMPLE FROM <b>TANK, KILL MUD</b>		FANN READINGS		CHLORIDE <b>90.00</b>		FL TEMP		MUD PRESSURE GRADIENT	
WOT <b>1200</b>		300		R		WATER		MUD-CYCLE MAIN HOLE (M)	
WSC <b>29</b>		300		R		SOIL		CIRCULATE BOTTOMS UP (M)	
API <b>2.1</b>		0.4		LIME		SOLIDS		MUD VOLUME IN TANKS	
PH		7.5		CALCIUM		OW RATIO		MUD VOLUME IN HOLE	
FC		GELS <b>1</b>		WGT		ED		TOTAL MUD VOLUME	
MUD ADDITIVES (W=WB)		GEL		CAUSTIC		BARITE			
MUD ADDITIVE COSTS		DAILY		CUM		MUD DIESEL COSTS		DAILY	
USED OR MUD COSTS ALLOCATED		DAILY		CUM		TOTAL = AFTER COSTS		DAILY	

### 3 SOLIDS CONTROL

ITEM	MAKE	TOTAL PUMP RATE	OP WT	UP WT	UP RATE	HOURS
DEBRAMER						
DEBRITER						
CENTRIFUGAL						
DEGRASSER						
SHAKER		SCREEN MESH				

#### 4 FLUID VOLUMES & DOWNHOLE TOOLS

VOLUMES ADDED	ITEM	NAME	SEALING	SIZE	WGT
WATER (FRESH)	JARS				
DIESEL	SS				
USED OIL MVO	STAB				
VOLUMES DUMPED					
LOSS TO FORMATION					
OTHER					

## 8 BIT DATA AND HYRAULICS

[illegible]

## 7 SURVEYS

## 8 DRILLING ASSEMBLY

### TIME BREAKDOWN

DRILLING	READUP	RIG UP TO _____	LOGGING	LAT BORN _____
TRAPPING	PRESS TEST	RUN CASING	CORING	
REAMING	SHIPS OUT	CIRC & CONO	TESTING	
SURVEY	CTB	CEMENTING	CIRC SAMPLES	
LOG & BOOKS	NO RECORD <i>12</i>	W O C	PICK UP _____	

**10 REMARKS**

RIG BELAIR



**FAX COVER**

**Terry D. Brooker**  
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---

DATE: *SEPT 5*, 2000

TO: *PAUL 1704407*

FAX: *(709) 729-2325*

PAGES: 1 of *5* (including this transmittal)

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# DAILY DRILLING REPORT

DATE: 08-01		DATE: 08-09-01
DATE FROM LOG: 39		DATE TO LOG: 39
TOTAL DAYS: 65		ADP: 100
WELL NAME: American Republics Flat Bay 95-101		FORMATION: EMBAYMENT
DEPTH: 143	LOG: 143	FORMATION: SURFACE
WELL TYPE: R/E Saver's 100-5-572		FORMATION: 285
DRILLING FLUID: COCAINE CRANE		FORMATION: 110,856

[illegible][illegible]

P/L REPAIR







DATE

11/19/2000

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE

FAX

RT

CURRENT OPERATION : Rig Repair

" DEPTH : 148 m

YESTERDAY DEPTH :

FOOTAGE/METERAGE : \_\_\_\_\_

20 102.9

00 114.3

K 07

J. 75

4 1/2" OD

CERAMIC

4.5 FT/HR

15.6" GAL

1000 Klb/m

SHR 143

8/23/2000

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

~~Deposit~~ Deposit clutch assembly at rebuild shop. Inspection and disassembly revealed failure of pressure plate. Attempt to locate part locally - order from maintained replacement.

Monday morning - A partial fix that might return us to operation until part arrives will be implemented.

DATE

11/19/2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Rig Repair

" DEPTH : 148 m

YESTERDAY DEPTH :

FOOTAGE/METERAGE :                     

20 103.9

00 114.3

K 67

0.75

4 1/2' 00

Cemented

4.5 Tons

12.6" 824

1000 kg/m

2400 143

0/23/2000

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

~~Rebuild~~ Deposit clutch assembly at  
rebuild shop. Inspection and disassembly  
revealed failure of pressure plate.  
Attempt to locate part locally - order  
from maintained replacement.

Monday morning - A partial fix that  
might return us to operation until  
part arrives will be implemented.

## FAX COVER

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---

**DATE:** December 6, 2000

**TO:** Paul Molloy / Donna Taylor

**FAX:** (709) 729 - 2508

**PAGES:** 1 of 6 ( including this transmittal)

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Attached are morning reports from American Reserve – if you still can't read them (or if the wrong rig) let me know.



DATE 12/1/2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION: RUNNING IN HOLE (TIH)

" DEPTH: 118 METERS

YESTERDAY DEPTH: 112

FOOTAGE/METERAGE <sup>LAST</sup> 24 : 6

FORMATION: CEMENT

DRILLING FLUID: H<sub>2</sub>O + B.G.<sup>#</sup>

DRILLING ASSEMBLY: CORE BBL - BIT 76 mm

REMARKS:

TAGGED CEMENT TOP 112 M  
CEMENT-SOLID, CURED, HOMOGENEOUS  
BUILDING CHLORIDE

JTB

DATE 12/2/2000

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : CORING

" DEPTH : 122

YESTERDAY DEPTH : 118

FOOTAGE/METERAGE <sup>LOST</sup> : 4 METERS

FORMATION : Cement

DRILLING FLUID : H<sub>2</sub>O + 9.2%

BUILDING Chloride

15 % NaCl

5 % CaCl

DRILLING ASSEMBLY: BT 76 mm, Corc Assembly

REMARKS :

JBL

DATE 12-3-2000  
SUNDAY

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Maintenance, REPAIR

" DEPTH : 122

YESTERDAY DEPTH : 122

FOOTAGE/METERAGE <sup>LAST</sup> 24 : -0-

FORMATION : cement

DRILLING FLUID :

Top off FLUID

SET FLUID LEVEL Indicator

DRILLING ASSEMBLY:

REMARKS : SIZE & ROUTE DATALOG LINES: Power  
REMOVE LINES UNTIL SHOE IS CUT.

*File*

DATE 12-4-2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : POOH-RIN-POOH

" DEPTH : 122

YESTERDAY DEPTH : 122

FOOTAGE/METERAGE <sup>LAST</sup> : 0  
~~FOOTAGE/METERAGE~~

FORMATION : cement

DRILLING FLUID : BRINE 9.3" → <sup>1115</sup>~~1115~~ KG NA22/CACL  
-11.7 CEL° FREEZE PT.  
VAL 240 BAR → 38 m<sup>3</sup>

DRILLING ASSEMBLY:

REMARKS :

Changed out landing RING IN CORE BRL ASSEMBLY  
POOHKILL FLUID: 1200 <sup>kg</sup>/m<sup>3</sup>  
5 ~~kg~~/m<sup>3</sup>

REPORT TIME 3PM NFD

DATE 12-5-2000

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : TIH - CORE

" DEPTH : ~~125~~ 125

YESTERDAY DEPTH : 122

FOOTAGE/METERAGE <sup>LAST</sup> 24 : 3

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : REBUILD CORE ASSEMBLY

REPLACED : ADAPTOR COUPLING  
LOCKING COUPLING  
ADAPTOR SUB.

[ ACTUAL 1.875" Core Size  
47.62 mm ]

DATE 12-6-2000

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY

709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : CORING

" DEPTH : 130 M

YESTERDAY DEPTH : 125 M

FOOTAGE/METERAGE <sup>LAST</sup> : 5 M

ID 103.9

OD 114.3

K 65

21 JTS

4 1/2" OD

CEMENTED

4-5 TONES

15.6" GAL

1870 KG/M

SHOE 143

8/23/200

FORMATION : Cement

DRILLING FLUID : BRINE

DRILLING ASSEMBLY : CORE

REMARKS : INTERLIZE SUB

DATE 12-7-2000

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : CONTIN

" DEPTH : 135 m

YESTERDAY DEPTH : 130

FOOTAGE/METERAGE <sup>LAST</sup> : 5 m

FORMATION : Cement -

DRILLING FLUID : BRINE

DRILLING ASSEMBLY : CORE

REMARKS : cement Balling on core Bit hard to  
cut + recover

DATE 12-8-2000

WELL: FLAT BAY 43-101 #1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : FABRICATING WIND WAILS for Rig

" DEPTH : 135

YESTERDAY DEPTH : 135

FOOTAGE/METERS <sup>WAT</sup> : -0-

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : BLIZZARD conditions - FABRICATING  
Wind Breaks



DATE 12-9-2000

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : SHUT DOWN

" DEPTH : 137

YESTERDAY DEPTH : 135

FOOTAGE/METERAGE <sup>LAST</sup><sub>24</sub> : 2

FORMATION: cement

DRILLING FLUID: Brine

DRILLING ASSEMBLY:

REMARKS: Shut down due to high winds!  
Blowing SNOW -  
4 hrs Drilling Time

DATE 12-10-2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Shut down

" DEPTH : 137

YESTERDAY DEPTH : 137

FOOTAGE/METERAGE <sup>LAST</sup> 24 : -0-

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : winds at 100 to 145 Kmh  
Hurricane force 11 at 9 AM NFLD

DATE 12-11-2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : REAMING SURFACE to 137 meter.

" DEPTH : 137

YESTERDAY DEPTH : 137

FOOTAGE/METERAGE <sup>LAST</sup> : -0-

FORMATION : Cement

DRILLING FLUID : BRINE

DRILLING ASSEMBLY : CORE

REMARKS : REAMED Hole / Cement flaking off  
CASING wall and slowing progress - Hole  
Clean 530 pm

DATE 12-12-2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Shut Down  
" DEPTH : Waiting on Weather

YESTERDAY DEPTH : 137

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

10103.9

00114.3

K 65

21 JD

4 1/2' OD

CEMENTED

4.5 FTOMES

13.6" GAL

1070 KG/M

SHOE 143

8/23/200

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :-

Wind force too high to operate safely

DATE 12-13-2000:

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Wait on Weather 20 103.9  
" DEPTH : 00 114.3

YESTERDAY DEPTH :

FOOTAGE/METERAGE LAST 24 :                     

K 55  
21.75

4 1/2' OD  
CEMENTED  
4.5 FT LONG  
15.6" GAL  
1070 KG/D  
SHOE 143  
8/23/2000

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : High winds

Note:

@ 12-14-2000 @

RESUMED OPERATIONS @ 3:30 AM

DATE 12-14-2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Drilling

" DEPTH : 141

YESTERDAY DEPTH : 137

FOOTAGE/METERAGE <sup>LAST</sup> 2.4 : 4

FORMATION : Cement - dense

DRILLING FLUID : BRINE

DRILLING ASSEMBLY : core

REMARKS : Annular TEST on 15<sup>th</sup> - Drill Shoe  
Leak off TEST Prior to 146 m.

Two sheets Are Being done daily however  
We are not running 24 hrs/day and no  
crews This report once out of shoe will  
Provide you all information - we will by  
mail provide the duplicate for sheet - they  
do not fax

BOP Drill - so <sup>see</sup> to secure well  
Check motor kill - okay

Paul,

Just for update

We are @ 1 meter Above Shoe  
and just completed Bop TEST-

1400 Low

10,500 High

No leaks Look good

We are currently drilling Shoe and will  
will make 1 to 3 meters past cement  
and conduct leak off test.

I will call and discuss Holiday schedule

Thank you and Merry X-mass

Tim Collier

DATE 12-15-

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE FAX

CURRENT OPERATION : CORE OUT SHOE

" DEPTH : 142

YESTERDAY DEPTH : 141

FOOTAGE/METERAGE <sup>LAST</sup> 24 : 5 m

FORMATION : <sup>Cement</sup> BARACHOIS  
fine GRAIN SILTY-CLAY, RED

DRILLING FLUID : BRINE 1010 Kg/m<sup>3</sup>  
8.4#

DRILLING ASSEMBLY: CORE

REMARKS :

Depth 141 M TEST BOPs AND Choke ~~data~~ LINE VALUES

1400 Low → 15 min pres 1400

10,500 High → 15 min pres 10,500

Drilled Shoe & Cement shoe depth 143m, Bottom of cement  
143-5.

Closed Bop Applied 1200 KPA slowly → Held 15 min ± 1200

$146 \text{ m} \times 1010 \times 00481 = 1446 + 1200 \text{ KPA} = 2646 \text{ east.}$

2646 Leaky off press (max allowed pres casing GAS)

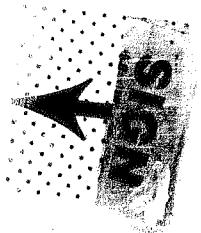
12 43 MAX Allowable → 1010 Kg/m<sup>3</sup> mud

12 15 MAX Allowable → 1020 Kg/m<sup>3</sup> mud  
→ 28 KPA

12 01 KPA

1030 Kg/m<sup>3</sup> mud

Post MAX Allowable At manifold and site office





DATE 12-16-2000

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Drilling  
" DEPTH : 148

YESTERDAY DEPTH : 146

FOOTAGE/METERAGE <sup>LAST</sup> 24 : 2M

FORMATION : Barchois

DRILLING FLUID : Drine 1010 KG/m<sup>3</sup>

DRILLING ASSEMBLY : NQ Core 76mm

REMARKS : Cut + recover 76mm Core F/ 146 to  
148m

\*\*\*\*\*  
\*\*\* TX REPORT \*\*\*  
\*\*\*\*\*

TRANSMISSION OK

TX/RX NO	3234	
CONNECTION TEL		914032299642
CONNECTION ID		
ST. TIME	12/21 11:49	
USAGE T	01'13	
PGS.	3	
RESULT	OK	

DATE 12-17-2000

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION: Drilling

" DEPTH: 148

YESTERDAY DEPTH: 148

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION: Barachois

DRILLING FLUID: brine 1010 kg/m<sup>3</sup>

DRILLING ASSEMBLY: NA Core Assy 76mm

REMARKS: Re Winterize + Check Both Choke  
Lines.

Post-it™ Fax Note	7671E	Date	Dec 21 2000	# of pages	2
To	T. Brooker	From	P. Molloy		
Co./Dept.		Co.			
Phone #		Phone #			
Fax #	403 229 9642	Fax #			

DATE 12-18-2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Drilling

" DEPTH : 148

YESTERDAY DEPTH : 178

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION: LARACHOIS

DRILLING FLUID: Brine 1010 KG/M<sup>3</sup>

DRILLING ASSEMBLY: NQ Core Assy 76mm

REMARKS: Pull UP INTO CSG Shoe, Close  
Annular Preventer, Install + Close Stabbing  
VALVE, Ensure STACK Drained and Added 8  
Litres of Antifreeze, Test OUT DATA LOGGER  
Shut Down For Holidays, Expected Date  
OF START UP 8 to 10<sup>th</sup> OF JAN 2001

**Donna Taylor - RE: AREC**

---

**From:** "Terry Brooker" <terry.brooker@hadrianenergy.com>  
**To:** "'Donna Taylor'" <donnataylor@mail.gov.nf.ca>  
**Date:** 1/12/01 12:18 PM  
**Subject:** RE: AREC

---

Donna

Its getting almost too late to wish you a Happy New Year, but I will anyway.

AmRes started operations yesterday January 12 just clearing snow off the site and getting ready to resume operations. We expect a full crew (2 people) to be there tomorrow and to resume drilling at that time. Also will get you reports for these days tomorrow.

Terry

-----Original Message-----

**From:** Donna Taylor [mailto:[donnataylor@mail.gov.nf.ca](mailto:donnataylor@mail.gov.nf.ca)]  
**Sent:** Wednesday, January 10, 2001 6:23 AM  
**To:** [terry.brooker@hadrianenergy.com](mailto:terry.brooker@hadrianenergy.com)  
**Subject:** AREC

Good Morning Mr. Brooker,

I trust this e-mail finds you in good health and back into the swing of things after the Christmas break. We have received morning reports from Deer Lake, however, we have heard nothing from American Reserve. Has drilling resumed for AREC yet? If not, when can we expect start-up?

Regards,  
Donna

DATE

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Prep for drilling

" DEPTH : 148 m

YESTERDAY DEPTH : "

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

±0 103.9

00 114.3

K 65

21.75

4 1/2' 00

CEMENTED

4.5 TONES

15.6" GAL

1070 KG/M

5WOB 143 W

8/23/2001

FORMATION : Barachois

DRILLING FLUID : BRINE < 1010 kg/m<sup>3</sup>

DRILLING ASSEMBLY : NO CORE ASSEMBLY

1/16 [ REMARKS : - Check drilling fluid-mixed 1 SX CACL  
+ 1010 kg/m<sup>3</sup> - 1/16/2001  
check and fill all fluid level, snow removal, inspect  
LINES, connection, valves and function test BOP and  
Closing unit

1/15 [ Change fluid : filter on Rig Floor Engine, Drain  
and dry pressure gauges add antifreeze as required.  
Clean Drill pipe threads + Dope as NEEDED

1/14 [ Dig out pit LINES uncover pipe and tools  
Filled camp-H<sub>2</sub>O TANK, Thawed equipment-handling  
tools, etc. Fueled and lubricated as needed

Paul Molloy

1-17-2001

Dept. Mines & Energy

Good Morning, -

East Coast Drilling has prepared and commenced drilling operation on Flat Bay 93-101 #1. (See Attached)

Today we broke circulation at 9am and are preparing to Round Trip assembly for inspection. I anticipate new footage by end of day.

Currently we are having some fuel problems with floor motor, probably air or ice in fuel system. We think it is simple in nature and will have no material effect.

Discussed drilling report with Terry. The complexity of report will not, without embellishment, get to much more complex

This coring system doesn't rely on hydraulics to cut hole but friction & cooling of bit.

Simply brine manages all our expected hole problems.

Colin & myself are labor and mgt. The employee report function on CACO form is not material. We have no hourly employees.

## **NOTE TO FILE**

Phone call from Terry Brooker to Paul Molloy on January 17, 2001

- Terry states that they are going to re-activate the rig today but there will be no report faxed to the department.
- Sometime late today or tomorrow a fax will be sent outlining the last 5 days activities.



DATE 11/17/2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE

FAX

RT

CURRENT OPERATION : Trip

" DEPTH : 148M

YESTERDAY DEPTH : -

FOOTAGE/METERAGE <sup>LAST</sup> : -

SD 102.9

SD 114.3

K 65

J. 75

4 1/2' 00

COMPACT

4.5 FT TUBES

15.6" GAL

1075 KG/M

SHD 143 M

8/23/2001

FORMATION : - Barachois  
Red Bed

DRILLING FLUID : - BRINE + 1090 KG/m<sup>3</sup>

DRILLING ASSEMBLY: Core

REMARKS: POOH with Core barrel and  
Assembly - Repaired Fuel system on FLOOR  
ENGINE

DATE 1/18/2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Trip In Hole

" DEPTH : 148 m

YESTERDAY DEPTH :

FOOTAGE/METERAGE LAST :                     

20 102.9

00 114.3

K 67

21 TD

4 1/2' 00

CAMPUS

4.8 TONNES

12.6" GAL

1070 KG/m

SHOT 143

8/23/2001

FORMATION : Red Bed

DRILLING FLUID : 1010 KG/m<sup>3</sup>

DRILLING ASSEMBLY : core

REMARKS : Inspect drilling Assembly, Removed debris from  
Bit water courses and Bit. Tripping Back to Bottom.  
Clutch on rig engine will not disengage.

Rig Time: 6 hr

Bottom Hole Assembly: 1.5 hr.

Pull Clutch : 1 hr.

S<sup>n</sup> DATE 1/19/2001  
Sunday 1/20/2001

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Shut down  
" DEPTH : for repair  
YESTERDAY DEPTH :  
FOOTAGE/METERAGE <sup>LAST</sup> :                     

20 102.9  
00 114.3  
K 65  
J. 75  
4 1/2' 00  
CEMENTED  
4.5 FT-MASS  
12.6" GAL  
1000 KG/M  
SHUT 143  
8/23/2001

FORMATION :

DRELLING FLUID :

DRELLING ASSEMBLY :

REMARKS : Locating clutch parts for  
Repair - services closed for weekend.

DATE 1/21/2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : W.O.P.

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> :                     

SD 102.9

SD 114.3

K 67

21.75

4 1/2' 00

CALCULATED

4.5 TOWERS

15.6" GAL

1075 KG/M

SHOT 143

8/23/2001

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : Parts shipped by Air Freight  
Priority from Toronto \*6 pm 1/22/2001  
Shovel Snow. 2 hrs  
Rig Repair. 5 hrs

\* up date

DATE 1/22/2001  
Monday

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY

709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : WAP.  
" DEPTH : 148 m  
YESTERDAY DEPTH :  
FOOTAGE/METERAGE <sup>LAST</sup> 24 : \_\_\_\_\_

SD 102.9	4 1/2' OD
SD 114.3	CEMENTED
K 65	4 FTOMES
J. 75	15.6" GAL
	1070 KG/M
	SHOE 143"
	8/23/2001

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : Freight will arrive 1 pm  
1/23/2001 - \* No show Air Canada (Priority)  
Shovel Snow  
Rig Maint.  
Change oil Rig Gen. Set.

\* up date

DATE

1/23/2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION :

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> :                     

20 102.9

00 114.3

K BT

J. TD

4 1/2' OD

CAMPUS

4.5 TONNES

12.6" GAL

1000 KG/M

SND 143

0/23/2001

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Freight did not arrive at  
 mercy of Canda Air Freight. We  
 will possibly have clutch installed  
 by Midnight of 24th if parts arrive.  
 Will resume drilling operation 25th

DATE 1-24-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376

PHONE  
FAX  
RT

CURRENT OPERATION :

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 : \_\_\_\_\_

SD 103.9

DD 114.3

K 65

21 TD

4 1/2' 00

CEMENTEC

4.5 FTOMES

13.6" 02L

1070 KG/M

SHOE 143 "

8/23/200

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Clutch Parts Arrived 2 pm Air Nova  
Delivered to Shop 2:30 pm

Thursday DATE 1-25-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION :

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 : \_\_\_\_\_

10102.9

00114.3

K 65

21 TD

4 1/2' 00

COMPETEC

4.5 TONES

12.6" 82L

1070 KG/M

SHOT 143

8/23/200

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

3pm Pick up completed Assembly for

INSTALL - Set clutch & Bell Housing. About  
4 hrs remaining to adjust clutch & linkage,  
Reconnect Drive lines

Ordered Reaming Shell NQ imp (spare)

" Bit

NQ imp (spare)

Geologist on standby will fax resume (cv)

to Mines & Energy Fax # 709-729-2325

When recieved, Tim



Friday DATE 1-26-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376

PHONE  
FAX  
RT

CURRENT OPERATION : Rig Repair

" DEPTH : 148

YESTERDAY DEPTH :

FOOTAGE/METERAGE LAST : \_\_\_\_\_

SD 102.9  
OD 114.3  
K 87  
J 175

4 1/2' OD  
CARPENTER  
4 FT WELLS  
12.6" GAL  
1075 KG/M  
2100 143 H  
8/23/2001

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Clutch - Adjustment requires Mechanic  
Notable to get proper ACTION 2 1/2  
Reconnect Linkage and drive Lines 3 hrs  
cleared snow

1 hr  
6 1/2

DATE 1-27-2001

Sunday 1-28-2001

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376

PHONE  
FAX  
RT

CURRENT OPERATION :

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE AT :

28 102.9  
28 114.3  
K 00  
21.750

4 1/2' 00  
Cement  
4.5' 00  
12.6" 00  
1000 lbs/ft  
2800 143.1  
8/23/2001

FORMATION :

DRELLING FLUID :

DRELLING ASSEMBLY :

REMARKS :

1-27-2001 Built Floor prefabs and windwalls  
1-28 Erected walls and Braces

~~Advisory~~

Advisory: 1-29

- ① Waiting for response on Geologist - Have contacted and ~~over~~ planned travel for 30th based on Availability. Should have CV for you today (Bryon McDougal) currently Terra Nova project
- ② Enclosed is my pref. for Exploration geologist. He will arrive NIGHT of 30th Subject to your Approval (When Mr. STRISLAND is available this geologist will be relieved)
- ③ Rig Up and running

DATE 1-29-2001

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : STANDBY ON  
" DEPTH : Geologist per  
Ministry request  
YESTERDAY DEPTH : 148  
FOOTAGE/METRAGE : \_\_\_\_\_

20 102.9  
00 114.3  
K 05  
J: 700  
4 1/2' 00  
CORRECTED  
4 FT - 00  
12.6 - 00  
1000 147/14  
0/23/2001

FORMATION :

DRELLING FLUID :

DRELLING ASSEMBLY :

REMARKS :

1. TRIP Drilling Assembly To Bottom of Surface Pipe and circulate hole & pits
2. Function Test Bop, Bop drill, Inspect Lines and Connections. Tighten connection on closing Unit.
3. Front End Loader - 3 hrs. (Vendor)  
Remove snow piles to make room for snow clearing (future)

Tim Collier

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE

FAX

RT

CURRENT OPERATION : Run &amp; Clean Hole

"

DEPTH

: 148

YESTERDAY DEPTH

: Standby for Geologist  
Ministry Request

PORTAGE/METREAGE AT

:

107.9

114.3

K 00

J. 70

4 1/2' 00

Cemented

4.5' 00

1.5' 00

100 lbs/ft

100 lbs/ft

0/23/200

FORMATION:

DRILLING FLUID:

DRILLING ASSEMBLY:

REMARKS:

Trip to bottom and cut 6" core to ensure clean hole. Trip out with core to inspect. Grey Shale  
Pulled 3 stands drill pipe -

Snow accumulation on top of Brine in drill  
pit hindering settling time

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Bit Change  
" DEPTH :

YESTERDAY DEPTH :

ROTARY/MEASURED AT :

20 102.9  
00 114.3  
K 97  
J. 75  
4 1/2' 00  
CANNED  
4.5 TONS  
15.6" GAL  
1000 kg/m<sup>3</sup>  
SUN 143.0  
8/20/2001

FORMATION : Grey Mudstone/shale

DRELLING FLUID : Brine - Building Chlorides

Mixed 100 kg. Sodium Chloride NaCl  
2 SK each  
(8.6) Brine = 1018 kg/m<sup>3</sup> Kill Fluid = 1222. kg/m<sup>3</sup> minus each (10.2<sup>#</sup>)

DRELLING ASSEMBLY : CORE

REMARKS :

Trip out of hole for Bit  
Shut IN Hole

Pickup : New 76 mm PBT Diamond Impregnated  
Series 2, NQ Bit  
1- New Reaming Shell, Diamond-Imp. PBT

Bit Out : USED Series 2 Bort-Longyear 76 mm  
Reaming Shell 76 mm  
Junk Bit for Hole Cleanup

Inventory Received : 10 Core PU/Rings \*  
1 Tong Wrench \*  
1 48" pipe wrench  
1 Rope/soap/dope \*  
+ vendor - Canuck sys.

DATE 02-01-01

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : CORING

" DEPTH : 150 m

YESTERDAY DEPTH : 148

FOOTAGE/METERAGE <sup>LAST</sup> 24 : 2 m

SD 103.9  
OD 114.3  
K 65  
21 JTS  
4 1/2" OD  
CEMENTED  
4-FTOMES  
15.6" OAL  
1010 KG/M  
SHOE 143 m  
8/23/2001  
150 m —

FORMATION : Mud stone Red/white-laminated  
(

DRILLING FLUID : BRINE 1010 Kg/m<sup>3</sup>

DRILLING ASSEMBLY : 76 mm Bit  
76 mm Reaming shell

#### REMARKS :

1. Geologist Arrived on location 1 P.M
2. Thawed pits for sufficient volume and function 12<sup>00</sup> PM
3. Performed function test Bops -
4. Bop Drill - secured 52 sec
5. Reviewed safety procedure
6. Familiarized personell with equipment procedures, potential hazards. Discussed Ministry concerns. Reviewed geologic information and geophysical data.
7. Began Coring 3<sup>45</sup> pm : shut down 5<sup>30</sup> pm
8. Service RIB and drained pump and lines
9. Secured tools : Equipment. dept. Loc. 630 pm

DATE 02-02-01

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-647-1376 PHONE  
FAX

CURRENT OPERATION : Drilling / Coring

" DEPTH : 153

YESTERDAY DEPTH : 150

FOOTAGE/METERAGE <sup>LAST</sup> : 3 meter

FORMATION : Mud Stone Grey / Red

DRILLING FLUID : 1010 Brine  
Thawing and mixing chlorides

DRILLING ASSEMBLY :

REMARKS :

Wt on Bit 1,000

RPM 800-1000

Pump pressure 200 KPA

STRING Wt. 1050 DAN

Pump Volume 40L/m

Cored 1 meter from 150/151 - Changed out  
Rig Transmission - Calibrated, tested and proved  
Datalogger - All system go.

Planned maintenance - Bear replacement @ 72 hours out  
Swivel packing @ 48 hours out

DATE 2-3-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Day-Off

" DEPTH : Colin/Tim

YESTERDAY DEPTH : Daily Maintenance Only

FOOTAGE/METERAGE <sup>LAST</sup> 24 : Order + Hauled Const. Materials

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :



DATE 2-4-2001

WELL: FLAT BAY 93-101-21

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Construction

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Drilling Fluid Iced up Building  
and Constructing Enclosure for tanks -  
9 hrs.

Resume drilling 2-5-2001

Crew/ Colin, Tim, Bryon (Geologist)

DATE 2-5-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Construction

" DEPTH : 153

YESTERDAY DEPTH : -0-

FOOTAGE/METERAGE <sup>LAST</sup> 24 : -0-

FORMATION : —

DRILLING FLUID : —

DRILLING ASSEMBLY : —

REMARKS : Build out water & Mud TANK Enclosure to protect Brine from gelling. Creates core recovery Problems. Finished Construction 8:30 pm.

Preped for Gale As predicted by forecast. Installed internal circulating pump for ~~night use~~ Nighttime USE.

Thru. delivery { Parts ordered: Swivel repair kit  
NQ adapter Coupling  
HQ Pilot Reamer Assembly  
Fed Ex - NT ~~at~~ Locking Coupling

DATE 2-6-2001

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-642-1376 PHONE FAX

CURRENT OPERATION : Waiting ON Weather

" DEPTH : W.O.W.

YESTERDAY DEPTH : Blizzard Conditions

FOOTAGE/METERAGE <sup>LAST</sup> : No Visibility

FORMATION :

DRELLING FLUID :

DRELLING ASSEMBLY :

REMARKS :

Monitored location No significant  
damage from high winds 17<sup>00</sup> pm.

It appear we can ~~commence~~ <sup>commence</sup> operations  
this morning

Lde

DATE 2-7-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-647-1376 PHONE  
FAXCURRENT OPERATION - Tripping BHA  
" DEPTH : 153

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 : -0-

FORMATION: Mod stone

DRILLING FLUID: BRINE

DRILLING ASSEMBLY: Coring

## REMARKS:

Could Not Recover Core from Barrel - P.O.H.  
4<sup>th</sup> Box from up from BHA, Twisted off.

Top of Fish <sup>@ 141</sup> m. Pin end clean twisted  
At seating shoulder. Ordered fishing tools from  
North Bay Ontario. Weather permitting, ARRIVE ON  
1<sup>30</sup> Air Nova Flight 2-8-2001.

DATE 2-8-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Waiting on Fishing tools  
" DEPTH : Circulate hole

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Repaired wind damage - Continue thawing mud pits (95%). Cleared snow drifts and accumulations of snow. Air Canada tracing delivery - didn't arrive today as of 1:30 flight. We are told by freight people it should be ~~later~~ delivered on 130 flight Air Nova 2-9-2001. No explanation how it got lost from 1 counter to next. Should be quick, clean fish.

DATE 2-9-81

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION :	Trip in Hole	20103.9		4 1/2' OD	
" DEPTH :	With Fishing	00114.3			CEMENTED
" DEPTH :	tool	K 65			4.5 TONES
YESTERDAY DEPTH :		21 JTS			15.6" GAL
FOOTAGE/METERAGE	LAST 24 :	<u>                    </u>		1070 KG/M	
				SHOE 143 W	
				8/23/2001	

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : Fishing tool Arrived location 3:30 PM  
 Make up Fishing Assembly Start in hole.  
 Prep for Blizz and.

DATE 2-10-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Trip in hole  
 " DEPTH :  
 YESTERDAY DEPTH :  
 FOOTAGE/METERAGE LAST :  
 24 :

SD 103.9  
 SD 114.3  
 K 05  
 21.75  
 4 1/2' OD  
 CEMENTED  
 4.5 FT OMS  
 13.6" GAL  
 1070 KG/M  
 SHOT 143  
 8/23/200

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY: Fishing

REMARKS : Trip to top of fish and circulate.  
 Suspend operations 1 pm due to 0 visibility  
 high winds sleet snow ect.

DATE 2-11-2001

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE

FAX

RT

CURRENT OPERATION : WQW.

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METRAGE LAST :                     

20102.9

00114.3

K 55

J1 JTS

4 1/2" OD

CEMENTED

4.5 TONNES

15.6" GAL

1070 KG/H

SHD 1431

0/23/200

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : Blizzard conditions - 0 visibility  
Location not Accessable9<sup>00</sup> PM 2-12-2001

Fishing



DATE 2-12-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE

FAX

RT

CURRENT OPERATION : Fishing

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :

ID 103.9

OD 114.3

K 65

21 JTS

4 1/2" OD

CEMENTED

4.5 TONES

15.6" GAL

1870 KG/M

SHOE 143 M

8/23/2001

FORMATION: -33°C WIND, SNOW FLURRIES  
Mudstone

DRILLING FLUID: BRINE

DRILLING ASSEMBLY: CORE

REMARKS:

Trip in with TAP - Caught fish AND lost at surface (@30M). Pulled out of hole inspected tool - ABOUT 3 threads marked ON tool. Dressed TAP, T.I.H. Push fish back to bottom, pulled off fish T.O.H. Inspect tap. T.I.H. 4 STAND. SHUT DOWN at dark. Thread off pin in Box looking up. Will attempt to wear down and dress for purchase SPEAR Being Built by National Tide OIL TOOL Down Hole DIV

DATE 2-12-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAXCURRENT OPERATION : Fishing

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Top of Fish 136.86 m. TOOH No Fish

TIH dressed top of Fish. TOOH - TIH with

TAP, TOOH. NO FISH. TIH - TOOH, TRIP - NO  
RESULTS. Lay down Bull nose TAP.

Advisory:

13<sup>th</sup> expect arrival of Tapper tap

\* DATE 12-14-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376

\* Please change date on  
yesterdays report to 13<sup>th</sup>  
PHONE  
FAX

CURRENT OPERATION : W.O.W. + Equipment

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID : 1010 Kg/m<sup>3</sup>

DRILLING ASSEMBLY:

REMARKS : Install line heater for heating fresh water.

Pump Fresh water to tanks, mix salt to 1010 Kg/m<sup>3</sup>.RE-PAKed JKS 5000<sup>#</sup> swivel

Break-out sub. Secure equipment and location for weather

Taper Tap did not arrive on flight at 130<sup>PM</sup>

Air Canada Tracing.

DATE 12-15-2000

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Waiting on Fishing tool  
" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Fishing tools to arrive Air Nova 130 PM  
12-16-2001.

Cleared snow - weather tough  
1. Slipped wire line, reset hook.

DATE 12/16/2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : POOH

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Picked-up tapered tap 2x NT T.I.H.  
Rotated by hand-drill string. Spudded 12' drop,  
Picked up spudded 6" drop, Rotated by hand  
2 1/2 turns 3/4 turn torque. Pulled string weight  
+ @ 3 pts. and ~~waited~~ waited 3 min added pressure  
and pulled fish free, coming out laying down.  
Shut down for night.

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : T I H

" DEPTH :

YESTERDAY DEPTH :

ROD/MEASURE AT : \_\_\_\_\_

20 192.9  
20 174.3  
K 97  
J. 70  
4 1/2' 00  
CAMPUS  
5. 75000  
10. 500  
1000 117.5  
BANK 143.1  
0/120/100

FORMATION :

DRELLING FLUID :

DRELLING ASSEMBLY :

REMARKS :

Continue to 400ft. LAID down fish, Broke  
out bad joint, Disassemble core Assembly,  
Inspect drill string and BNA.

1. Pin twisted off At shoulder - Box had  
rolled pin thread and was split from fishing  
operation.

WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376

PHONE  
FAX  
RT

CURRENT OPERATION : W/OV

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE AT : \_\_\_\_\_

20 103.9	4 1/2' 00
20 114.3	CONCRETE
K 07	4.5' 00
21 70	15.6' 00
	1000 11/12
	2000 11/12
	8/12/12

FORMATION :

DRELLING FLUID :

DRELLING ASSEMBLY :

REMARKS : Blowing snow. no travel

2 pm passable Road-checked location  
and equipment (12-19 will trip back  
and hole and continue coring.)

12-14-2001

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Coring  
" DEPTH : 166 m

YESTERDAY DEPTH : 153

RODAGE/METERS AT : 13 m

102.9  
114.3  
K 05  
21.75  
44'00  
CORING  
4 FT  
15.6" GAL  
1000 M/L  
SUM 143.1  
8/23/200

FORMATION : Mudstone

DRILLING FLUID : 1010 kg/m<sup>3</sup> Brine

DRILLING ASSEMBLY : core 76 mm imp. Bit

REMARKS :

Rowland Strickland-geologist on location  
Preparing reports and info,





DATE 2-21-01

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : NOW-BLizzard  
" DEPTH : 169 m

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup><sub>24</sub> :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

0 visibility No driving to location

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY

709-649-1376

PHONE  
FAX  
RT

CURRENT OPERATION : Conditioning

DEPTH : 169'

YESTERDAY DEPTH : 169

FOOTAGE/METERAGE : -0-

Hdc 20 103.9  
DD 114.3  
K 65  
21.70

4 1/2' 00  
Cemented  
4 ft TMS  
15.6" GAL  
1070 K/LM  
SWS 143 W  
8/23/2001

FORMATION : Possible unconsolidated Sand Stringer

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : Coring BHA

REMARKS : Conditioning Hole, cleanup ; EIRC.

Maytex sweep - set pill across  
slough zone pull up 2 Jts, & shut  
down for night

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY

709-649-1376

PHONE  
FAX  
RT

CURRENT OPERATION : *WOW*

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> :                     

20 103.9  
00 114.3  
K 67  
31.70

31.70

4 1/2' 00  
CAMPUS  
4 FT 00  
12.6" 00  
1070 K/m  
31.70 143.0  
0/20/300

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : *Waiting on snow plow to  
Clear drifts. Snow removal  
Put Bit on Bottom cored and circulated/  
partial return cored 1 foot, pick up  
shut down.*

*Returns seem to weaken -  
Lost Returns*

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY

709-649-1376

PHONE  
FAX  
RT

CURRENT OPERATION : *WOW*

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

SD 103.9  
DD 114.3  
K 65  
21.75

4 1/2' OD  
CONCRETE  
4 FT LONG  
12.6" GAL  
1070 KG/M  
SHOE 143"  
8/23/2001

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : *Blizzard / drifts*

*0 Vis.*

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY

709-649-1376

PHONE  
FAX  
RT

CURRENT OPERATION: Logging

" DEPTH: 172

YESTERDAY DEPTH: 169

FOOTAGE/METERAGE <sup>LAST</sup> : 3

ID 103.9  
OD 114.3  
K 65  
21.75

4 1/2" OD  
CEMENTED  
4.5 TONS  
15.6" OAL  
1070 KG/M  
3100 143 W  
8/23/2001

FORMATION: Gyp/anhydrite

DRILLING FLUID: Brine

DRILLING ASSEMBLY: Logging BHA

REMARKS: Possible fluid loss beginning  
at 170 m - still having problems with  
friable sand Jamming core bit. Trip out  
clean up! Trip in. Condition hole.

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION: Coring

" DEPTH: 177

YESTERDAY DEPTH: 172

FOOTAGE/METERAGE <sup>LAST</sup> <sub>24</sub>: 5

SD 102.9  
SD 114.3  
K 55  
3.70

4 1/2' 00  
CORING  
4.5 FT  
12.6" GAL  
1000 Kbf/m  
SD 143 H  
0/20/2001

FORMATION:

DRILLING FLUID: 1010 -

DRILLING ASSEMBLY:

REMARKS: Lost returns while drilling.  
Slug with Maytex 100 liters - Prob SAND  
stringer possible bedding plane fracturing  
from overbalance mud weight.  
Ordered Mud product - EXPAND, 1<sup>st</sup> Attempt.  
Solution - delivery @ 1530 hrs 2/27/2001  
Set Maytex pill over suspected loss  
zone.

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY

709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : Fishing  
" DEPTH : 177

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>WHT</sup> 24 :                     

20102.9  
00114.3  
K 65  
J170

4 1/2' 00  
Cemented  
4 FT-THICK  
126" GAL  
1070 K/L/M  
SHOE 143"  
8/23/2001

FORMATION :

DRILLING FLUID : MAYTEX , BRINE  
Pumping slugs

DRILLING ASSEMBLY :

REMARKS : POOH - TWISTED OFF 4<sup>th</sup> JT. AT PIN.

PICK UP FISHING TOOL TH. CIRCULATE SAND  
OFF BOX - FULL RETURNS. Screwed taper  
INTO BOX - Pulled fish up (lost fish 4 doubles out)  
Continued out of hole - Dressed TOOL  
Shut down for night.

~~2-28~~



2-26-2001  
(KB) FLOOR-178m (TD)

A hand-drawn diagram of a well casing. A vertical line represents the casing, with a horizontal line intersecting it. To the right of the casing, the text "4 1/2\" CASING" is written. Below this, a bracket indicates a section of the casing. To the left of this bracket, the number "165.10" is written. To the right of the bracket, the text "TOP of fish Box up 43' PIPE & BHA" is written. Below the bracket, the text "178m Bottom of hole \"76mm\"" is written. To the left of the casing, the text "175m DECLINATION Survey" is written, with an arrow pointing to the casing line. Below "Survey" is a small "10" with a degree symbol.

4 1/2" CASING

165.10 - TOP of fish Box up 43' PIPE & BHA

175m DECLINATION Survey  
10° →

178m Bottom of hole "76mm"

DATE 2-28-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : POOH

" DEPTH : 175 M

YESTERDAY DEPTH : 178 M

FOOTAGE/METERAGE <sup>LAST</sup> 24 : -3M

FORMATION : UNKNOWN - In core Barrel

DRILLING FLUID : Maytex, Brine

DRILLING ASSEMBLY : 76 mm, Bit, Barrel, crossover sub.

### REMARKS :

2/27/→ 1<sup>st</sup> Trip with tap tool  
Top of fish 165.10  
Pulled 6 STANDS - lost fish at 136 ± M

2/28/→ Tripped tap to 165.10. Did not engage fish  
15-20 passes  
Picked up PIPE AND circulated tap to  
± 176.5 NO METAL?

Trip out of hole fish string INTACT. Tools sheared/cond?  
Hole CLEAN, Full circulation.

2/29 → Will Trip in hole with JUNK Bit & Core Barrel AND  
CONTINUE TO T.D of hole + 2 meters

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY

709-649-1376 PHONE  
FAX  
RT

CURRENT OPERATION : T114  
" DEPTH : 175

YESTERDAY DEPTH : 175

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

20102.9  
00114.3  
K 65  
21.70

4 1/2' 00  
Cemented  
4.5 ft  
15.6" GAL  
1070 K6/m  
SHUT 143 W  
8/23/2001

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : Dig out snow

Build BHA to finish sidetrack

1-5' core Barrel

1-76 mm Bit (used)

Pick up drill string make run to 175 circulated  
2 volumes, pull pipe back to shoe + shut  
down.

Friday 3-1-2001 Shut down waiting on part  
and equipment from Bort Longyear and Canuck

DATE 3-2-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Core  
" DEPTH : 175.6

YESTERDAY DEPTH : 175

FOOTAGE/METERAGE <sup>LAST</sup> 24 : 16 m

FORMATION : Anhydrite

DRILLING FLUID : Maytex 1200 & Brine

DRILLING ASSEMBLY : Core

REMARKS :

Appear to be past any obstruction from fish.  
Torque : Rough drilling

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : POOH  
" DEPTH : 175.62

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 : ~~XXXXXXXXXX~~

FORMATION : Anhydrite

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : Twist off below Box 49.5 m from  
surface (just above change over JT NA-NT). Anhydrite  
difficult to core. Probable lubricity issue -

DATE 3/4/2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

TIH TAPER TAP

could not get proper purchase

Trip out dress TAP

Top Kish 49.5 m

DATE 3/5/2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

TH TAP spudded top gently -  
could not get purchase

TOOTH

Pick up BQ Coring Bit to ream  
10 of Fish

Shot down for night

DATE 5-6-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing / Milling

" DEPTH : 175.6 ±

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Ran in hole with BQ to 48 meters and broke circ.  
Cleaned to top of fish. Milled from 49.5 to 50. m  
and circulated clean. POOH Laid down core  
brk Assembly. Picked up NQ taper tap. RIH  
to 49.5 unable to engage fish. POOH. RIH  
With tap - No purchase POOH.



WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing ; Milling  
" DEPTH : 175.6 ±

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : RAN IN BQ Bit & Core Barrel Assembly.  
Broke circulation at 50 meters and milled ID of  
NQ to 52 meters. Pumped 1 m<sup>3</sup> 55-60 vis slug  
to clean ; clear mill fines. POOH-laid down BQ  
RAN IN hole with taper tap to 52 meters engaged  
fish and attempted to pull fish free. Pulled off  
fish twice. Not able to move fish. Engaged fish  
Pulled 2 pts over and left strain for night.

DATE 5-8-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing + Milling

" DEPTH : 17516

YESTERDAY DEPTH : 17516

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID: Brine 10/10

DRILLING ASSEMBLY: NQ Core BBL

REMARKS: Attempted Unsuccessfully to Free Fish

POOH LID TAPER TAP PIU BQ BIT + Core BBL RIH  
to 52 m Break Circ + Mill F/52 to 53 m

POOH LID BQ Core BBL PIU TAPER TAP

+ RIH to 52 m Enhance Fish Attempt to

Pull Free. hct S.T. Overnight ~ 2000 overpull

DATE 3-9-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing & Milling

" DEPTH : 175.6

YESTERDAY DEPTH : 175.6

FOOTAGE/METERAGE <sup>LMT</sup><sub>24</sub> :                     

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: NQ Core BDL ASSY

REMARKS: Attempt unsuccessfully to Pull  
Fish Free. P.O.H. w TAPER TAP. LID  
TAPER TAP.

DATE 3-10-201

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Repairs

" DEPTH : 175.6

YESTERDAY DEPTH : 175.6

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY:

REMARKS : Remove Blake Bands. Wait on  
linings

DATE 5-11-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : ~~REPAIRS~~ Repairs

" DEPTH : 175.6

YESTERDAY DEPTH : 175.6

FOOTAGE/METERAGE <sup>LAST</sup> 24 :           

FORMATION :

DRILLING FLUID : Brine 10/10

DRILLING ASSEMBLY:

REMARKS : Wait on Blake hwinings

DATE 5-15

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Repairs

" DEPTH : 175.6

YESTERDAY DEPTH : 175.6

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: NA Core BDL

REMARKS: WAIT ON BRAKE LININGS

DATE 5-10-00  
WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Washover Pipe

" DEPTH : 17516

YESTERDAY DEPTH : 17516

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : Washover Pipe

REMARKS : Installed Brake + Clutch. PU + MU  
96mm Shoe + RIH TO 50 M ON 88.9mm Washover  
Pipe. Shut Down For Night.

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Wait on Weather  
" DEPTH : 175.6  
YESTERDAY DEPTH : 175.6  
FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID: Drine 1010

DRILLING ASSEMBLY:

REMARKS: Wind Gusting TO 140km/HR Freezing  
RAIN



WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Milling w 96mm Shoe on 88.9mm <sup>old</sup> pipe  
" DEPTH : 50.5  
YESTERDAY DEPTH : 50.0  
FOOTAGE/METERAGE <sup>LAST</sup> 24 : ~~50.0~~

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: 88.9mm WASH OVER PIPE

REMARKS: Milled F 50 TO 50.5m Pool H  
\* Change Shoe. Shut Down For  
N.L.H.T.

PP 200 KPA

RPM 600 to 800

WOB 500 DAN

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Milling w 96mm Shoe and 88.9mm Washover  
" DEPTH : 55m P/A

YESTERDAY DEPTH : 50.5

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : 88.9mm Washover P/A

REMARKS : RIHW New Shoe Rcam F/ 50.5 to  
51.5m Poot H Change Shoe + RIH  
TO 51.5 Mill F/ 51.5 to 55m  
Circ H: Vis Shut Down For Night

DATE 173-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : WAITING ON CSC Shoe's

" DEPTH : 55

YESTERDAY DEPTH : 55

FOOTAGE/METERAGE <sup>LAST</sup> :                     

FORMATION :

DRILLING FLUID: Brine 10/0

DRILLING ASSEMBLY: 88.9mm Washover Pipe

REMARKS: WAIT ON CSC Shoe's.

DATE 11-5-2001  
WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : WAITING ON CSA SHOES

" DEPTH : 55m

YESTERDAY DEPTH : 55m

FOOTAGE/METERAGE <sup>LAST</sup> 24 : ~~\_\_\_\_\_~~

FORMATION :

DRILLING FLUID : BRINE 1010

DRILLING ASSEMBLY : 88.9mm WASHOUP PIPE

REMARKS : WAIT ON CSA SHOES

DATE 19-3-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Waiting on Crossover

" DEPTH : 55m

YESTERDAY DEPTH : 55m

FOOTAGE/METERAGE <sup>LAST</sup> :                     

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : 98.9mm Washover Pipe

REMARKS : Wait on Crossover

DATE - - -

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION: Fishwh + Milling

" DEPTH: 55m

YESTERDAY DEPTH: 55m

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION:

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: OUT OF Hole

REMARKS: RIH W NT X10 + ATTEMPT UNSUCCESSFUL  
TO SCREW INTO PIPE, PUGH + P1 U  
NO TAPER TAP. RIH TO 55m ENHANCE  
TAP PUGH LID TAP. PUGH 88.9mm P.D.  
HAD SAME SHUT DOWN FOR THE NIGHT

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing + Milling  
" DEPTH : 55m  
YESTERDAY DEPTH : 55m  
FOOTAGE/METERAGE <sup>LAST</sup> <sub>24</sub> : ~~\_\_\_\_\_~~

FORMATION :

DRILLING FLUID: Brine 10/0

DRILLING ASSEMBLY: 98mm Over Shot

REMARKS: RTH w 98mm Over Shot on  
69mm Pipe Evaluate Fish  
+ Pull 2000 LBS Over + Hold  
Over Night.

DATE 22-3-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH : 55m

YESTERDAY DEPTH : 55m

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: 98mm O-Shot on 69mm pipe

REMARKS: Pull 4000 LBS on Fish, Fish would  
NOT pull free. Disengage  
Fish. Start Pump + Attempt to  
Clean TOF. Engage Fish Attempt  
Unsuccessful to Free Fish.  
POOH Check <sup>Catcher</sup> ~~Grapple~~ OK, RIG  
Engage Fish Attempt Unsuccessful  
to Free Fish. Shut Down for Night.



DATE 23.7.25-3-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH : 55 TO F

YESTERDAY DEPTH : 55

FOOTAGE/METERAGE <sup>LAST</sup> <sub>24</sub> :                     

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY:

REMARKS : WAIT ON SPear

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing  
" DEPTH : 55m

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> :

FORMATION :

DRILLING FLUID: Drine 1010

DRILLING ASSEMBLY: Spear + GRAPPLE

REMARKS: RIH w Spear + GRAPPLE + Attempted  
Unsuccessfully to Engage Fish.  
POOH + Change GRAPPLE.

DATE 27-3-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH : 55m

YESTERDAY DEPTH : 55m

FOOTAGE/METERAGE <sup>LAST</sup> 24 : \_\_\_\_\_

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY:

REMARKS: RTH - Attempt unsuccessfully  
to Engage Fish. PULL LID  
SPEAR + GRAPPLE 11U + MILL 88.9mm  
FLAT 67m mill + RTH to 55m.

WELL: FLAT BAY 93-101-#1

DATE 20-0-00 PAGE 01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing + Milling  
" DEPTH : 56

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 : ~~56-57~~

FORMATION :

DRILLING FLUID: Brine 10/10

DRILLING ASSEMBLY:

REMARKS: Mill F 55 to 56m POOH LID  
Flat 67m mill. RIHW SPEAR.  
Attempt unsuccessfully to Enguage  
Fish. POOH LID SPEAR.

DATE 29-3-2001

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing + Milling

" DEPTH : 56m

YESTERDAY DEPTH : 56m

FOOTAGE/METERAGE <sup>LAST</sup> :                     

FORMATION :

DRILLING FLUID: Brine 10/0

DRILLING ASSEMBLY:

REMARKS: RIH w HT Rod to 58m.

RIH w Inner Tube 0. Shot  
Attempt to Free Inner Tube  
Release 0. Shot, 100H.

DATE 30, 31, 03/01, 04.0

WELL: FLAT BAY 93-101-#1

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Waiting on F.BTM Mill  
" DEPTH : 56m

YESTERDAY DEPTH : 56m

FOOTAGE/METERAGE <sup>LAST</sup> <sub>24</sub> :                     

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: OUT OF HOLE

REMARKS: WAIT ON F.BTM Mill  
TO ARRIVE FLALBERTA. Showed  
UP @ 1400 on 02/04/2001

PAGE 01  
DATE 02-04-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Milling  
" DEPTH : 57m  
YESTERDAY DEPTH : 56  
FOOTAGE/METERAGE LAST :

FORMATION :

DRILLING FLUID: Brine 10/0

DRILLING ASSEMBLY:

REMARKS : RIH w F. 57m mill mill #1  
56 to 57m Pump Hi Vis Sweep  
POOH + PIU Over Shot.

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing  
" DEPTH : 54m

YESTERDAY DEPTH : 57m

FOOTAGE/METERAGE <sup>LAST</sup> :                     

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY:

REMARKS : RIH w Overshot, Attempt  
Unsuccessfully to Engage  
Fish PUGH LID Overshot.



DATE 04-04-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing  
" DEPTH : 58  
YESTERDAY DEPTH : 57  
FOOTAGE/METERAGE <sup>LAST</sup> 24 :

FORMATION :

DRILLING FLUID: Brine 10/0

DRILLING ASSEMBLY:

REMARKS: RTHW F BTM mill mill FST  
to 58m POOTH LHO FBTM  
mill

DATE 06-04-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishhawk

" DEPTH : 58

YESTERDAY DEPTH : 59

FOOTAGE/METERAGE <sup>LAST</sup> : ~~54~~

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY :

REMARKS : PU FBTm mill + RTH + Mill  
F/58 to 59m POOH LID F.BTM  
Mill.

DATE 03-24-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH : 59

YESTERDAY DEPTH : 60

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY:

REMARKS : RIH w OverShot & Attempt Unsy.  
to Enhance Fish. POOH LID  
OverShot.

DATE 08-04-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH : 59

YESTERDAY DEPTH : 59

FOOTAGE/METERAGE <sup>LAST</sup> :                     

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY:

REMARKS: PIU + RIH w Spear + Attempt  
Unsuccessfully to Engage Fish. "s  
POOH LID Spear.

DATE 08-04-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH : 59

YESTERDAY DEPTH : 59

FOOTAGE/METERAGE <sup>LAST</sup> : \_\_\_\_\_

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY:

REMARKS: P/U + RTH w Spear + Attempt  
Unsuccessfully to Enhance Fish.  
POOH LID Spear.

Tin Collier April 09, 2001

- When clear pipe it mills easier
- Not looking at starting a new hole
- core barrel was sticking up
- have core barrel pushed down about 4 feet.
- milled then went in with BQ
- then tap, pulled, let it sit
- Now are looking at washing over

DATE 07-04-2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing  
" DEPTH : 59  
YESTERDAY DEPTH : 59  
FOOTAGE/METERAGE <sup>LAST</sup> : \_\_\_\_\_

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY:

REMARKS : RIH w BQ BIT, Cleaned Inside  
of Pipe F/59 to 60.5m. PUGH  
LID BQ BIT, P/U TAPER TAP + RIH  
to 59m Evaluate TAP + Pull  
on Fish. TAP pulled out.  
PUGH LID TAP, RIH w 88.9mm  
Washover Pipe to 90m.

April 17-2001

Paul Molloy,

We are washed over to the surface casing shoe. I think we are done with milling iron for a while. We considered crossing over the wash pipe to the NQ drill rod and washing over to bottom of hole. I ordered enough wash over pipe (H drill rod) to tie us back to within a few feet of wellhead. Delivery is expected Tuesday or Wednesday. We have overhauled our mud pump and need a couple of valve springs to complete the job. They are to arrive this morning.

I can now E-mail reports and communications. If you will fax me back the address you would like to use for that purpose: 709-643-6799, we will start reporting in that fashion tomorrow.

We plan to washover some portion of hole  
when pump is completed to see what condition  
it's in

Tim Collier

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : WAIT on HQ Rod + Pump PARTS  
" DEPTH :  
YESTERDAY DEPTH :  
FOOTAGE/METERAGE <sup>LAST</sup> : \_\_\_\_\_

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : WAIT on HQ Rod + Pump PARTS FOR  
J/KS BIAHANA DY

1. Work on pump
2. Order change over
3. Est del. 18th or 19th



DATE 4/17/2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Waiting on Drill pipe  
" DEPTH : (Washover)

YESTERDAY DEPTH : 143 m

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Install Valve Springs  
Pipe shipped & should arrive 4/19/2001

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Waiting on Drill Pipe  
" DEPTH : Washover

YESTERDAY DEPTH : 143m

FOOTAGE/METERAGE <sup>LAST</sup> : ~~\_\_\_\_\_~~

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : Waiting on Pipe

DATE 4/18/2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Waiting on Drill Pipe  
" DEPTH : Washover

YESTERDAY DEPTH : 143

FOOTAGE/METERAGE <sup>LAST</sup> :

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : Waiting on Pipe

DATE 4-20 to 4-23  
2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : WAITING ON PIPE DELIVERY

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METREAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS :

Locating Shipment on Common Carrier

DATE 4/23 4/27

2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Waiting on Equipment  
" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID :

DRILLING ASSEMBLY :

REMARKS : PIPE DELIVERED TO 4/26  
STEPHENVILLE / Change over coupling  
Lost in Transshipment.  
4/27 Travel to Quebec to get coupling  
+ pump/parts

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fitting Pump  
" DEPTH :

YESTERDAY DEPTH : 143m

FOOTAGE/METERAGE <sup>LAST</sup> : \_\_\_\_\_

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : Washover Pipe 88.9mm

REMARKS : Fitted Bean 420 Pressure Pump  
And Tested Same. Wait on 410  
HT Pin X HQ Box

DATE 08/05/2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Reaming

" DEPTH :

YESTERDAY DEPTH :

FOOTAGE/METERAGE <sup>LAST</sup> 24 :

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : 88.9 mm Washover Pipe

REMARKS : Ream 91mm Hole F/ 143 to 151m  
RPM 600-800 PP 600 KPA WOB 1000 Dan

DATE 09/05/2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Reaming  
" DEPTH : 167

YESTERDAY DEPTH : 151

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID: Brine 1090

DRILLING ASSEMBLY: 88.9mm Washover Pipe

REMARKS: Ream 91mm Hole F/151 to 167m  
RPM 600-800 PP 1800KPA WOB 10000DN



WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE FAX

CURRENT OPERATION : Reaming

" DEPTH : 169

YESTERDAY DEPTH : 167

FOOTAGE/METERAGE LAST :                     

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : 88.9mm Washover Pipe

REMARKS : Ream 91mm Hole // 167 to 169 - Push  
TO Change Shoe  
RPM 600-800 PP 900 KPA WOB 1000 DAN

DATE 11/05/2007

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Tripping & Reaming  
" DEPTH : 172

YESTERDAY DEPTH : 169

FOOTAGE/METERAGE <sup>LAST</sup> 24 :                     

FORMATION :

DRILLING FLUID: Brine 10/0

DRILLING ASSEMBLY: 88.9mm Washover Pipe

REMARKS: Change Shoe, RIT to 169m  
Ream P/ 169 to 172 RPM 600-800  
PP 700 KPA WOB 10000N

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Reaming  
" DEPTH : 174  
YESTERDAY DEPTH : 172  
FOOTAGE/METERAGE <sup>LAST</sup> :                     

FORMATION :

DRILLING FLUID: Brine 10/0

DRILLING ASSEMBLY: 88.9mm Washover Pipe

REMARKS: Ream 91mm Hole F/172 to 174m

DATE 12/05/00

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Reaming + Trilling  
" DEPTH : 174.5

YESTERDAY DEPTH : 174

FOOTAGE/METERAGE <sup>LAST</sup> :                     

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: 88.9 mm Washover Pipe

REMARKS: Ream F/174 to 174.5 Poot H F 174.5  
Change Shoe, RTH to 143m

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Reaming  
" DEPTH : 175

YESTERDAY DEPTH : 174.5

FOOTAGE/METERAGE <sup>LAST</sup> : \_\_\_\_\_

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: 88.9mm Washover Pipe

REMARKS: RTH F/143 to 174. Clean F/174 to  
174.5. Ream F/174.5 to 175 P00H  
w Shoe.

DATE 15/05/2001

WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Reamed  
" DEPTH : 175.25

YESTERDAY DEPTH : 175

FOOTAGE/METERS <sup>LAST</sup> : \_\_\_\_\_

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : 88.9mm Washover Pipe

REMARKS : Change Shoe. RTH to 175.25. Ream  
F/ 175.25 to 175.50.

RPM 600-800 WOB. 1000 DAN PP 70. KPA

WELL: FLAT BAY 93-101-01  
 AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
 FAX

CURRENT OPERATION : Ream. in  
 " DEPTH : 176.50

YESTERDAY DEPTH : 175.50

FOOTAGE/METREAGE AT : \_\_\_\_\_

FORMATION :

DRILLING FLUID : Brine 1010

DRILLING ASSEMBLY : 88.9mm Washover Pipe

REMARKS : Ream // 175.50 to 176.50

RPM 300-500 WOB- 1000 lb PP 700 KPA

DATE 17/05/2001

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing

" DEPTH : 176.50

YESTERDAY DEPTH : 176.50

PORTALS/METERAGE <sup>LAST</sup> : \_\_\_\_\_

FORMATION :

DRELLING FLUID: Brine 1010

DRELLING ASSEMBLY: 88.9mm Washover Pipe / BQ Core BBL Assy

REMARKS: RIH w 76mm TAPER TAP ATTEMPT  
Unsuccessfully to Enlarge Fish. POOTH  
LID TAPER TAP. RIH w BQ Core BBL  
Assy. Dress TOF f/ 49m to 51m  
POOTH w BQ Core BBL Assy LID Same  
P/U m/u 76mm TAPER TAP.



DATE 18/05/2001

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing  
" DEPTH : 176.50

YESTERDAY DEPTH : 176.50

FOOTAGE/METERS <sup>LEFT</sup> :                     

FORMATION :

DRILLING FLUID: Brine 10/10

DRILLING ASSEMBLY: BQ Pipe - NO CUTTERS

REMARKS : CONT RIHW 76mm TAPER TAP Enhance  
Fish + ATTEMPT UNSUCCESSFULLY TO  
PULL FISH. POOLH LID TAPER TAP  
RIHW SPEAR Enhance Fish + ATTEMPT  
UNSUCCESSFULLY TO FREE FISH. Insert  
+ POOLH LID NO PIPE + SPEAR. PULL  
NO CUTTERS + RIH ON BQ PIPE TO  
125 meters.

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY

709-649-1376 PHONE  
FAX

CURRENT OPERATION : Fishing  
" DEPTH : 176-50

YESTERDAY DEPTH : 176-50

PORTALS/METERS AT : \_\_\_\_\_

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: NO TAP

REMARKS: CONT RTH w NO Pipe CUTTERS  
to 165 meters CUT Pipe, POOH  
LID NO Pipe CUTTERS, RTH w NO Spear  
ASSY. Engage Fish + POOH w NO Pipe

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE FAX

CURRENT OPERATION : Recovering Fish  
" DEPTH : 176.50  
YESTERDAY DEPTH : 176.50  
FOOTAGE/METREAGE <sup>WT</sup> : \_\_\_\_\_

FORMATION :

DRILLING FLUID: Brine 1010

DRILLING ASSEMBLY: NO TAP

REMARKS : RIH w NO TAP, Enguage Fish @ 163m  
Attempt Unsuccessfully to Recover  
Fish. PUGH w NO Pipe. PUGH to  
163m w 88.9mm Washover Pipe. RIH  
w NO TAP to 165 Enguage Fish  
Pull Fish Free. PUGH w NO Core  
Assy / Fish.

WELL NAME:	FLAT-BAY 93 101 #1		
Date	21 05 01	Day No.	MANY
Depth (2400 hrs)		Licence#	93-103
Activity at 0800 hrs	RIH TO 120m	24 Hr. Progress	KB to CF 5.4
Rig & Rig No.	ECD RIG#1	AFE #	KB to GL.
Directions		Grd. Elev	50m
			K.B.Elev. 55.4

Drilling Fluid						BIT DATA			Time Analysis		Hours
Properties			Additives		Number				Connections		
WT / kg/m	1010				Size				Trip		
VIS	27				Type				Deviation Survey		
WL					Serial No.				Rig Service		
Cake					Jets				Circ. & Cond. Mud		
pH					Out At				Repair Rig		
Gels					Hours				Run Casing		
Soilds					ROP m/hr				N/up,BOP Test		
PV					Cum. M				Logging		
YP					Cum. Hrs.				Coring		
Oil					T / B / G				Formation Tstg.		
Sand					WT. on Bit				Weld bowl		
L					RPM				W.O.C.		
Deviations					Stroke				Rig out		
Depth	Deg.	Depth	Deg.	Depth	Deg.	Liner			Move rig		
						SPM			Actual drilling		
						Ann Vel			Cementing		
						Surf. Press			Total hours	0	
DST No.	Formation		Interval		Initial flow, hrs						
ISI	FF		FSI		IHP		FHP				
PF	IFP		FFP		ISIP		FSIP				
BHT	Choke		Results								
Weather	SUNNY		Temp.		10	Roads	GOOD				
									Drill String Sequence		
Co-ordinates;	LONG58 31' 52-8"W LAT48 23' 6.5N								Total	Size mm	Length
CON'T POOH w NQ CORE BBL ASSY L/D FISH & PREPARE NEW NQ CORE BBL ASSY											
Total Depth,mkb String Wt.dan.											
DAILY:		3600	Cum:		Reported By:				COLIN CRANE		

<b>WELL NAME:</b>		FLAT-BAY 93 101 #1	
<b>Date</b>	22 05 01	<b>Day No.</b>	MANY
<b>Depth (2400 hrs)</b>		<b>Licence:</b>	93-103
<b>Activity at 0800 hrs</b>	RIH TO 120m	<b>24 Hr. Progress</b>	5.4
<b>Rig &amp; Rig No.</b>	ECD RIG#1	<b>KB to CF</b>	
<b>Directions</b>		<b>AFE #</b>	KB to GL.
		<b>Grd. Elev</b>	50m
		<b>K.B.Elev.</b>	55.4

Drilling Fluid						BIT DATA		Time Analysis		Hours
<b>Properties</b>			<b>Additives</b>	<b>Number</b>	<b>4</b>			<b>Connections</b>		
WT / kg/m	1010			Size	76			Trip		
VIS	27			Type	SURFACE SET			Deviation Survey		
WL				Serial No.	3914			Rig Service		
Cake				Jets				Circ. & Cond. Mud		
pH				Out At				Repair Rig		
Gels				Hours				Run Casing		
Solids				ROP m/hr				N/up,BOP Test		
PV				Cum. M				Logging		
YP				Cum. Hrs.				Coring		
Oil				T/B/G				Formation Tstg.		
Sand				WT. on Bit				Weild bowl		
<b>Deviations</b>				RPM				W.O.C.		
Depth	Deg.	Depth	Deg.	Stroke				Rig out		
				Liner				Move rig		
				SPM				Actual drilling		
				Ann Vel				Cementing		
				Surf.Press				Total hours		0

DST No.	Formation	Interval	Initial flow, hrs
ISI	FF	FSI	IHP
PF	IFP	FFP	ISIP
BHT	Choke	Results	FSIP
Weather	SUNNY	Temp.	10
			Roads
			GOOD

			Drill String Sequence		
Co-ordinates;	LONG58 31' 52-8"W LAT48 23' 6.5N		Tool	Size mm	Length
	RIH TO 120M		Bit	76	0.07
	HELD BOP DRILL WELL SECURE 55SECS		R.SHELL	78	0.13
	FUNCTION TEST TOP & BTM ANNULARS CHECK OKTOP C 4SECS BTM CLOSE 3SECS		CORE BBL	76	3.39
	INSTALL UPPER KELLY COCK CHECK SAME CHECK OK		ADP.SUB	76	0.15
	CHECK GAS DETECTOR w BUTANE CHECK OK		LOCK COUP	78	0.23
	CHECK BREATHING APPERATUS CHECK OK		NT	76	4.57
			18x6.09NT	76	109.62
			Total Depth.mkb		
			String Wt dan.		
DAILY:	3600	Cum:	Reported By:		COLIN CRANE

## AMERICAN RESERVE ENERGY

### DAILY DRILLING REPORT

**WELL NAME:** FLAT-BAY 93 101 #1  
**Date** 23 05 01 **Day No.** 24 **Hr. Progress**  
**Depth (2400 hrs)** 184mkb **Licence:** 93-103 **KB to CF** 5.4  
**Activity at 0800 hrs** CORE F/184 **AFE #** **KB to GL.**  
**Rig & Rig No.** ECD RIG#1 **Grd. Elev** 50m **K.B.Elev.** 55.4  
**Directions**

Drilling Fluid				BIT DATA				Time Analysis	Hours
Properties			Additives	Number	4			Connections	
WT / kg/m	1010			Size	76			Trip	2
VIS	27			Type	URFACE SET			Deviation Survey	
WL				Serial No.	3914			Rig Service	
Cake				Jets				Circ. & Cond. Mud	3
pH				Out At				Repair Rig	
Gels				Hours				Run Casing	
Soilds				ROP m/hr	2			N/up,BOP Test	
PV				Cum. M	8			Logging	
YP				Cum. Hrs.	4			Coring	4
Oil				T / B / G				Formation Tstg.	
Sand				WT. on Bit	1000			RECOVER CORE	3
CL				RPM	600/800			W.O.C.	
				Stroke	36LPM			Rig out	
Deviations				Liner				Move rig	
Depth	Deg.	Depth	Deg.	SPM				Actual drilling	
				Ann Vel				Cementing	
				Surf. Press	1400kpa			Total hours	

**DST No.** \_\_\_\_\_ **Formation** \_\_\_\_\_ **Interval** \_\_\_\_\_ **Initial flow, hrs** \_\_\_\_\_  
**ISI** \_\_\_\_\_ **FF** \_\_\_\_\_ **FSI** \_\_\_\_\_ **IHP** \_\_\_\_\_ **FHP** \_\_\_\_\_  
**PF** \_\_\_\_\_ **IFP** \_\_\_\_\_ **FFP** \_\_\_\_\_ **ISIP** \_\_\_\_\_ **FSIP** \_\_\_\_\_  
**BHT** \_\_\_\_\_ **Choke** \_\_\_\_\_ **Results** \_\_\_\_\_  
**Weather** SUNNY **Temp.** 8 **Roads** GOOD

Co-ordinates;		LONG58 31' 52-8"W LAT48 23' 6.5N		Drill String Sequence		
				Tool	Size mm	Length
				Bit	76	0.07
				R.SHELL	78	0.13
				CORE BBL	76	3.39
				ADP.SUB	76	0.15
				LOCK COUP	78	0.23
				NT	76	4.57
				18x6.09NT	76	109.62
				X/O	76	0.09
				10xmq	76	60.00
				1xmq	76	3.00
				KD		2.75
				Total Depth,mkb		184.00
				String Wt.dan.		2100

**DAILY:** 3600 **Cum:** \_\_\_\_\_ **Reported By:** COLIN CRANE

## AMERICAN RESERVE ENERGY

### DAILY DRILLING REPORT

<b>WELL NAME:</b> FLAT-BAY 93 101 #1		<b>Day No.</b> MANY		<b>24 Hr. Progress</b> 9	
<b>Date</b> 24 05 01		<b>Licence:</b> 93-103		<b>KB to CF</b> 5.4	
<b>Depth (2400 hrs)</b> 193		<b>AFE #</b>		<b>KB to GL.</b>	
<b>Activity at 0800 hrs</b> RIH TO 120m		<b>Grd. Elev</b> 50m		<b>K.B.Elev.</b> 55.4	
<b>Rig &amp; Rig No.</b> ECD RIG#1					
<b>Directions</b>					

Drilling Fluid				BIT DATA				Time Analysis		Hours
<b>Properties</b>			<b>Additives</b>	<b>Number</b>	4			<b>Connections</b>		
WT / kg/m	1010			Size	76			Trip		4
VIS	27			Type	URFACE SET			Deviation Survey		
WL				Serial No.	3914			Rig Service		
Cake				Jets				Circ. & Cond. Mud		
pH				Out At	193			Repair Rig		
Gels				Hours	12			Run Casing		
Soilds				ROP m/hr	2			N/up.BOP Test		
PV				Cum. M	18			Logging		
YP				Cum. Hrs.	12			Coring		8
Oil				T / B / G				Formation Tstg.		
Sand				WT. on Bit	1000dan			Weld bowl		
CL				RPM	600/800			W.O.C.		
<b>Deviations</b>				Stroke	36LPM			Rig out		
Depth	Deg.	Depth	Deg.	Depth	Deg.			Move rig		
								Actual drilling		
								Cementing		
								Total hours		12

<b>DST No.</b>	<b>Formation</b>	<b>Interval</b>	<b>Initial flow, hrs</b>
ISI	FF	FSI	IHP
PF	IFP	FFP	ISIP
BHT	Choke		FSIP
<b>Weather</b>	SUNNY	<b>Temp.</b>	12
		<b>Roads</b>	GOOD

<b>Co-ordinates;</b> LONG58 31' 52-8"W LAT48 23' 6.5N		<b>Drill String Sequence-</b>	
Cut&RECOVER 76mm CORE F/ 184to193 POOH F/193M w NQ CORE BBL ASSY LOST CIRC@188mkb GAS UNITS SPIKED F/35to71@188mkb 88.9mm WASHOVER STRING SET@176.51mkb		<b>Tool</b>	<b>Size mm Length</b>
		BIT	76 0.07
		R.SHELL	78 0.13
		CORE BBL	76 3.39
		ADP.SUB	76 .15
		LOCK COUP	76 0.23
		X/O	76 0.09
		1XNT	76 4.57
		18x6.09NT	76 109.62
		12xNQ	76 72.00
		KD	2.75
		Total Depth,mkb	193.00
		String Wt.dan.	1500

<b>DAILY:</b> 3600	<b>Cum:</b>	<b>Reported By:</b> COLIN CRANE
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# AMERICAN RESERVE ENERGY

## DAILY DRILLING REPORT

**WELL NAME:** FLAT-BAY 93 101 #1  
**Date:** 25 05 01  
**Depth (2400 hrs):** 201  
**Activity at 0800 hrs:** CORE F/193  
**Rig & Rig No.:** ECD RIG#1  
**Directions:**  
**Day No.:** MANY  
**Licence:** 93-103  
**AFE #:**  
**Grd. Elev:** 50m  
**24 Hr. Progress:** KB to CF 5.4  
**KB to GL:**  
**K.B.Elev.:** 55.4

Drilling Fluid				BIT DATA				Time Analysis		Hours
Properties			Additives	Number	5			Connections		
WT / kg/m	1010		1PAIL MATEX 1200	Size	76			Trip		
VIS	42			Type	SERIES2			Deviation Survey		
WL				Serial No.	2v6476			Rig Service		
Cake				Jets				Circ. & Cond. Mud	4	
pH				Out At				Repair Rig		
Geis				Hours	4			Run Casing		
Soilds				ROP m/hr	2			N/up,BOP Test		
PV				Cum. M	8			Logging		
YP				Cum. Hrs.	4			Coring	4	
Oil				T / B / G				Formation Tstg.		
Sand				WT. on Bit	1000dan			Weld bowl		
CL				RPM	800/1000			W.O.C.		
Deviations				Stroke	36LPM			Rig out		
Depth	Deg.	Depth	Deg.	Depth	Deg.			Move rig		
								Actual drilling		
								Cementing		
								Total hours	8	
DST No.	Formation		Interval		Initial flow, hrs					
ISI	FF		FSI		IHP		FHP			
PF	IFP		FFP		ISIP		FSIP			
BHT	Choke		Results							
Weather	SUNNY		Temp.		8		Roads		GOOD	
Co-ordinates; LONG58 31' 52-8"W LAT48 23' 6.5N								Drill String Sequence		
CORE F/193to201mkb 1meter core recovery f/193to201REGAINED CIRCULATION F/196mkb GAS UNITS SPIKED F/41to170 when circulation was regained								Tool	Size mm	Length
								BIT	76	0.07
								R.SHELL	78	0.13
								CORE BBL	76	3.39
								ADP SUB	76	.15
								LOCK COUP	76	0.23
								1XNT	76	4.57
								18X6.09NT	76	109.62
								X/O	76	0.09
								13XNQ	76	78.00
								1XNQ	76	3.00
								KD		1.75
								Total Depth,mkb		201.00
								String Wt.dan.		1400
DAILY:		3600		Cum:		Reported By:		COLIN CRANE		



<b>WELL NAME:</b>						FLAT-BAY 93 101 #1																							
<b>Date</b>						26 05 01																							
<b>Depth (2400 hrs)</b>						214																							
<b>Activity at 0800 hrs</b>						CORE F, 214																							
<b>Rig &amp; Rig No.</b>						EOD RIG#1																							
						<b>Grd. Elev</b> 50m																							
<b>Directions</b>						<b>K.B.Elev.</b> 55.4																							
							<b>Day No.</b> MANY 24 Hr. Progress																						
							<b>Licence:</b> 93-103 KB to CF 5.4																						
							<b>A/E #</b> KB to GL.																						
							<b>K.B.Elev.</b> 55.4																						
<b>Drilling Fluid</b>												<b>BITS DATA</b>				<b>Time Analysis</b>				<b>Hours</b>									
<b>Properties</b>				<b>Additives</b>		<b>Number</b>		<b>5</b>						<b>Connections</b>															
WT / kg/m		1010		2 pails matex 1200		Size		76						Trip															
VIS		48		SALT 40skts		Type		SERIES2						Deviation Survey															
WL						Serial No.		2v6476						Rig Service															
Cake						Jets								Circ. & Cond. Mud		4													
pH						Out At								Repair Rig															
Gels						Hours		8						Run Casing															
Soilds						ROP m/hr		2						N/up BOP Test															
PV						Cum. M		21						Logging															
YP						Cum. Hrs.		12						Coring		8													
Oil						T/B/G								Formation Tstg.															
Sand						WT. on Bit		1000dan						Weld bowl															
						RPM		800/1000						W.O.C.															
						Stroke		36LPM						Rig out															
						Liner								Move rig															
						SPM								Actual drilling															
						Ann Vel								Cementing															
						Surf.Press		600kpa						Total hours															
<b>DST No.</b>						<b>Formation</b>						<b>Interval</b>						<b>Initial flow, hrs</b>											
<b>ISI</b>						<b>FF</b>						<b>FSI</b>						<b>IHP</b>						<b>FHP</b>					
<b>PF</b>						<b>IFP</b>						<b>FFP</b>						<b>ISIP</b>						<b>FSIP</b>					
<b>BHT</b>						<b>Choke</b>						<b>Results</b>																	
<b>Weather</b>						<b>SUNNY</b>						<b>Temp.</b>						<b>14 Roads GOOD</b>											
												<b>Drill String Sequence</b>																	
<b>Co-ordinates;</b>		LONG58 31' 52-8"W LAT48 23' 6.5N										<b>Tool</b>		<b>Size mm</b>		<b>Length</b>													
		CORE F/201to214mkb										BIT		76		0.07													
		PARTIAL CIRCULATION f 201to214										R.SHELL		78		0.13													
		GAS UNITS 44										CORE BBL		76		3.39													
		PUMPED 6cubic meters of 1200kg/msaturated salt in an attempt to regain full returns no change										ADP SUB		76		.15													
												LOCK COUF		76		0.23													
												1XNT		76		4.57													
												18X6.09NT		76		109.62													
												X/O		76		0.09													
												15X6.00NQ		76		90.00													
												1X3.00NQ		76		3.00													
												KD				2.75													
												Total Depth,mkb				214.00													
												String Wt.dan.				1500													
<b>DAILY:</b>				3600				<b>Cum:</b>				<b>Reported By:</b>				COLIN CRANE													

## AMERICAN RESERVE ENERGY

### DAILY DRILLING REPORT

**WELL NAME:** FLAT-BAY 93 101 #1  
**Date** 27 05 01 **Day No.** MANY **24 Hr. Progress** 6  
**Depth (2400 hrs)** 220 **Licence:** 93-103 **KB to CF** 5.4  
**Activity at 0800 hrs** CORE F/220 **AFE #** **KB to GL.**  
**Rig & Rig No.** ECD RIG#1 **Grd. Elev** 50m **K.B.Elev.** 55.4  
**Directions**

Drilling Fluid				BIT DATA				Time Analysis		Hours
Properties			Additives	Number	5			Connections		
WT / kg/m	1010		2 pails matex 1200	Size	76			Trip		
VIS	48		SALT 40sks	Type	SERIES2			Deviation Survey		
WL				Serial No.	2v6476			Rig Service		
Cake				Jets				Circ. & Cond. Mud		
pH				Out At				Repair Rig		
Gels				Hours	4			Run Casing		
Soilds				ROP m/hr	2			N/up,BOP Test		
PV				Cum. M	27			Logging		
YP				Cum. Hrs.	16			Coring		4
Oil				T / B / G				Formation Tstg.		
and				WT. on Bit	1000dan			Weld bowl		
CL				RPM	800/1000			W.O.C.		
Deviations				Stroke	36LPM			Rig out		
Depth	Deg.	Depth	Deg.	Depth	Deg.			Move rig		
								Actual drilling		
								Cementing		
								Total hours		4
DST No.		Formation		Interval		Initial flow, hrs				
ISI		FF		FSI		IHP		FHP		
PF		IFP		FFP		ISIP		FSIP		
BHT		Choke		Results						
Weather	SUNNY	Temp.	18	Roads	GOOD					
								Drill String Sequence		
Co-ordinates;	LONG58 31' 52-8"W LAT48 23' 6.5N					Tool	Size mm	Length		
	CORE F/ 214to22 mkb					BIT	76	0.07		
	PARTIAL CIRCULATION 214to220					R.SHELL	78	0.13		
	GAS UNIT 33					CORE BBL	76	3.39		
						ADP SUB	76	.15		
						LOCK COUP	76	0.23		
						1XNT	76	4.57		
						18X6.09NT	76	109.62		
						X/O	76	0.09		
						16X6.00NQ	76	96.00		
						1X3.00NQ	76	3.00		
						KD		2.75		
						Total Depth, mkb		220.00		
						String Wt. dan.		1500		
DAILY:	3600	Cum:		Reported By:	COLIN CRANE					

# **AMERICAN RESERVE ENERGY** **DAILY DRILLING REPORT**

**WELL NAME:** FLAT-BAY 93 101 #1  
**Date:** 28 05 01  
**Depth (2400 hrs):** 220  
**Activity at 0800 hrs:** CORE F/220  
**Rig & Rig No.:** ECD RIG#1  
**Directions:**  
**Day No.:** MANY  
**Licence:** 93-103  
**AFE #:**  
**Grd. Elev:** 50m  
**24 Hr. Progress:** 6  
**KB to CF:** 5.4  
**KB to GL:**  
**K.B.Elev.:** 55.4

Drilling Fluid				BIT DATA			Time Analasis	Hours
Properties			Additives	Number	5		Connections	
WT / kg/m	1180		50sacks	Size	76		Trip	
VIS				Type	SERIES2		Deviation Survey	
WL				Serial No.	2v6476		Rig Service	
Cake				Jets			Circ. & Cond. Mud	12
pH				Out At			Repair Rig	
Gels				Hours	4		Run Casing	
Solids				ROP m/hr	2		N/Up,BOP Test	
PV				Cum. M	27		Logging	
YP				Cum. Hrs.	16		Coring	
Oil				T / B / G			Formation Tstg.	
Sand				WT. on Bit	1000dan		Weld bowl	
				RPM	800/1000		W.O.C.	
				Stroke	36LPM		Rig out	
				Liner			Move rig	
				SPM			Actual drilling	
				Ann Vel			Cementing	
				Surf.Press	600/800kpa		Total hours	

**DST No.:** \_\_\_\_\_ **Formation:** \_\_\_\_\_ **Interval:** \_\_\_\_\_ **Initial flow, hrs:** \_\_\_\_\_  
**ISI:** \_\_\_\_\_ **FF:** \_\_\_\_\_ **FSI:** \_\_\_\_\_ **IHP:** \_\_\_\_\_ **FHP:** \_\_\_\_\_  
**PF:** \_\_\_\_\_ **IFP:** \_\_\_\_\_ **FFP:** \_\_\_\_\_ **ISIP:** \_\_\_\_\_ **FSIP:** \_\_\_\_\_  
**BHT:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Results:** \_\_\_\_\_  
**Weather:** SUNNY **Temp.:** 18 **Roads:** GOOD

Co-ordinates;		LONG58 31' 52-8"W		LAT48 23' 6.5N		Drill String Sequence		
						Tool	Size mm	Length
						BIT	76	0.07
						R.SHELL	78	0.13
						CORE BBL	76	3.39
						ADP SUB	76	.15
						LOCK COUF	76	0.23
						1XNT	76	4.57
						18X6.09NT	76	109.62
						X/O	76	0.09
						16X6.00NQ	76	96.00
						1X3.00NQ	76	3.00
						KD		2.75
						Total Depth.mkb		220.00
						String Wt.dan.		1500

**DAILY:** 3600 **Cum:** \_\_\_\_\_ **Reported By:** COLIN CRANE

## AMERICAN RESERVE ENERGY

### DAILY DRILLING REPORT

**WELL NAME:** FLAT-BAY 93 101 #1  
**Date:** 29 05 01 **Day No.** MANY **24 Hr. Progress** 6  
**Depth (2400 hrs)** 220 **Licence:** 93-103 **KB to CF** 5.4  
**Activity at 0800 hrs** CORE F/220 **AFE #** **KB to GL.**  
**Rig & Rig No.** ECD RIG#1 **Grd. Elev** 50m **K.B.Elev.** 55.4  
**Directions**

Drilling Fluid				BIT DATA				Time Analysis		Hours
Properties			Additives	Number	5			Connections		
WT / kg/m	1180		salt40sacks	Size	76			Trip		
VIS				Type	SERIES2			Deviation Survey		
WL				Serial No.	2v6476			Rig Service		
Cake				Jets				Circ. & Cond. Mud		10
pH				Out At				Repair Rig		
Gels				Hours	4			Run Casing		
Solids				ROP m/hr	2			N/up,BOP Test		
PV				Cum. M	27			Logging		
YP				Cum. Hrs.	16			Coring		
Oil				T / B / G				Formation Tstg.		
Sand				WT. on Bit				Weld bowl		
CL				RPM				W.O.C.		
Deviations				Stroke				Rig out		
Depth	Deg.	Depth	Deg.	Depth	Deg.			Move rig		
								Actual drilling		
								Cementing		
								Total hours		
DST No.		Formation		Interval		Initial flow, hrs				
ISI		FF		FSI		IHP		FHP		
PF		IFP		FFP		ISIP		FSIP		
BHT		Choke		Results						
Weather	SUNNY	Temp.	18	Roads	GOOD					
								Drill String Sequence		
Co-ordinates;	LONG58 31' 52-8"W LAT48 23' 6.5N					Tool	Size mm	Length		
UNLOAD 6 TONS OF SALT& CONT TO MIX BRINE NOT DRILLING AHEAD UNTIL FULLY SATURATED						BIT	76	0.07		
						R.SHELL	78	0.13		
						CORE BBL	76	3.39		
						ADP SUB	76	.15		
						LOCK COUP	76	0.23		
						1XNT	76	4.57		
						18X6.09NT	76	109.62		
						X/O	76	0.09		
						16X6.00NQ	76	96.00		
						1X3.00NQ	76	3.00		
						KD		2.75		
						Total Depth.mkb		220.00		
						String Wt.dan.		1500		
3600				Cum:		Reported By:	COLIN CRANE			

## AMERICAN RESERVE ENERGY

### DAILY DRILLING REPORT

**WELL NAME:** FLAT-BAY 93 101 #1  
**Date** 30 05 01 **Day No.** MANY **24 Hr. Progress**  
**Depth (2400 hrs)** 220 **Licence:** 93-103 **KB to CF** 5.4  
**Activity at 0800 hrs** CORE F/220 **AFE #** **KB to GL.**  
**Rig & Rig No.** ECD RIG#1 **Grd. Elev** 50m **K.B.Elev.** 55.4  
**Directions**

Drilling Fluid				BIT DATA				Time Analysis		Hours
Properties			Additives	Number	5			Connections		
WT / kg/m	1180		SALT 30sacks	Size	76			Trip		
VIS				Type	SERIES2			Deviation Survey		
WL				Serial No.	2v6476			Rig Service		
Cake				Jets				Circ. & Cond. Mud		10
pH				Out At				Repair Rig		
Gels				Hours	4			Run Casing		
Soilds				ROP m/hr	2			N/up,BOP Test		
PV				Cum. M	27			Logging		
YP				Cum. Hrs.	16			Coring		
Oil				T / B / G				Formation Tstg.		
Sand				WT. on Bit				Weld bowl		
CL				RPM				W.O.C.		
Deviations				Stroke				Rig out		
Depth	Deg.	Depth	Deg.	Depth	Deg.			Move rig		
								Actual drilling		
								Cementing		
								Total hours		
DST No.	Formation		Interval		Initial flow, hrs					
ISI	FF		FSI		IHP		FHP			
PF	IFP		FFP		ISIP		FSIP			
BHT	Choke		Results							
Weather	RAIN		Temp.		8		Roads		GOOD	

Co-ordinates;		LONGS8 31' 52-8"W LAT48 23' 6.5N		Drill String Sequence		
Tool	Size mm	Length				
BIT	76	0.07				
R.SHELL	78	0.13				
CORE BBL	76	3.39				
ADP SUB	76	.15				
LOCK COUF	76	0.23				
1XNT	76	4.57				
18X6.09NT	76	109.62				
X/O	76	0.09				
16X6.00NQ	76	96.00				
1X3.00NQ	76	3.00				
KD		2.75				
Total Depth,mkb		220.00				
String Wt.dan.		1500				

CON't to mix brine  
 NOT DRILLING AHEAD UNTIL FULLY SATURATED

<b>DAILY:</b>	3600	<b>Cum:</b>		<b>Reported By:</b>	COLIN CRANE
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WELL: FLAT BAY 93-101-#1  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION :  
" DEPTH : 220 M  
YESTERDAY DEPTH : 220 M.  
FOOTAGE/STORAGE AT : \_\_\_\_\_

FORMATION :

DRILLING FLUID: BAINE

DRILLING ASSEMBLY:

REMARKS: DOWN TO FLUID.

06-04-01 76' 9" 9 A.M.

06-05-01 76' 9" 9 A.M.

06-06-01 76' 9" 4 P.M.

06-07-01 76' 9" 4 P.M.

06-08-01 76' 9" 10 A.M.

06-09-01 76' 9" 4 P.M.

06-10-01 76' 9" 2 P.M.

WARREN HANSON

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION :

" DEPTH : 220 M.

YESTERDAY DEPTH : 220 M.

FOOTAGE/METREAGE <sup>WT</sup> : \_\_\_\_\_

FORMATION :

DRELLING FLUID: BRINE

DRELLING ASSEMBLY:

REMARKS: DOWN TO FLUID

06-11-01 76' 9" 7: A.M.

06-12-01 - 76' 9" 9: A.M.

06-13-01 - 76' 9" 9: A.M.

06-14-01 - 76' 9" 8: A.M.

06-15-01 - 76' 9" 4: P.M.

06-16-01 - 76' 9" 9: A.M.

06-17-01 - 76' 9" 10: A.M.

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION :

" DEPTH : 220 M

YESTERDAY DEPTH : 220 M.

FOOTAGE/METERAGE AT : \_\_\_\_\_

FORMATION :

DRELLING FLUID: BRINE

DRELLING ASSEMBLY:

REMARKS: DOWN TO FLUID

06-18-01 76' 9" 9: AM.

06-19-01 76' 9" 7: AM.

06-20-01 76' 9" 10 AM.

06-21-01 76' 9" 4 P. M.

06-22-01 76' 9" 2 P. M.

06-23-01 76' 9" 9: AM.

06-24-01 76' 9" 10: AM.

WARREN HANSON



WELL: FLAT BAY 93-101-01

AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION :

" DEPTH : 220 m

YESTERDAY DEPTH : 220 m

FOOTAGE/METERAGE <sup>WT</sup> :                     

FORMATION :

DRELLING FLUID :

DRELLING ASSEMBLY: BRINE

REMARKS: DOWN TO FLUID

06-25-01 - 76' 9"

06-26-01 - 76' 9"

06-27-01 - 76' 9"

06-28-01 - 76' 9"

06-29-01 - 76' 9"

06-30-01 - 76' 9"

07-01-01 - 76' 9"

WARREN HANSON

WELL: FLAT BAY 93-101-01  
AMERICAN RESERVE ENERGY 709-649-1376 PHONE  
FAX

CURRENT OPERATION:

" DEPTH: 220 m

YESTERDAY DEPTH: 220 m

FOOTAGE/MEASURED BY: \_\_\_\_\_

FORMATION:

DRELLING FLUID: BRINE

DRELLING ASSEMBLY:

REMARKS: DOWN TO FLUID

07-02-01 - 76' 9"

07-03-01 76' 9"

07-04-01 76' 9"

07-05-01 76' 9"

07-06-01 76' 9"

07-07-01 76' 9"

07-08-01 76' 9"

Warren Hanson

**American Reserve Energy Canada Corp.**

**Daily Report # 1**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date:** July 17, 2001

**Well:** Flat Bay 93 – 101 # 1

**Current Operation:** Tagged resistance @ 216.1m  
Milling Iron rods  
(from previous drill contractor )inside HQ string

**Current Day Depth** 216.1m @ 24:00 hrs

**Previous Day Depth:** 216.1m

**Footage 24 Hours meters (footage):** 0 m

**Formation:** Codroy Road Formation (Halite unit)

**Drilling Fluid:** Viscous Salt Brine Mud  
Viscosity: 45 Ocean Salt Water + Matex  
Density: 1200kg/m<sup>3</sup> (10 lbs/gal)  
pH: 7.5

**Drilling Assembly:** Retrieveable Core Barrel Assembly: 4 m  
71 joints NQ @ 213 m

**Remarks:** 07:00 hrs 218.1 m  
Milling Iron with 5 gal (22.5 l) / min  
Pump Volume 100psi. Full Mud Returns.  
Mud Weight In: 10 lbs/gal  
Mud Weigh Out: 10 lbs/gal  
Received 240 bags of Fisheries Salt  
Received 115 joints NQ rods from Petro  
Received 81 joints HQ rods from Petro

**Drilling Superintendent:** Ed Weiterman: Ed Weiterman

**American Reserve Energy Canada Corp.**

**Daily Report #2**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date: July 18, 2001**

**Well: Flat Bay 93 – 101 # 1**

**Current Operation: Coring in Halite**

**Current Day Depth 229m**

**Previous Day Depth: 216m (started coring @ 220m)**

**Footage 24 Hours meters 9m (29.5')**

**Formation: Codroy Road (Halite unit)**

**Drilling Fluid: Viscous Salt Brine Mud**  
**Viscosity: 45 Ocean Salt Water + Matex**  
**Density: 1200kg/m<sup>3</sup> (10 lbs/gal)**  
**pH: 7.5**

**Drilling Assembly: Retrieveable Core Barrel Assembly: 4 m**  
**75 joints NQ @ 229 m**

**Remarks: From 24:00 to 07:00: Coring from 229 to 235m.**  
**Recovered 2 core runs with a total 6 m**  
**Full Recovery with excellent Quality.**

**Drilling Superintendent: Ed. Weiterman Ed. Weiterman**

**American Reserve Energy Canada Corp.**

**Daily Report #3**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date: July 19, 2001**

**Well: Flat Bay 93 – 101 # 1**

**Current Operation: Coring in Halite**

**Current Day Depth 253m**

**Previous Day Depth: 229m (started coring @ 220m)**

**Footage 24 Hours meters 24m (78.7')**

**Formation: Codroy Road (Halite unit)**

**Drilling Fluid: Viscous Salt Brine Mud**  
**Viscosity: 45 Ocean Salt Water + Matex**  
**Density: 1200kg/m<sup>3</sup> (10 lbs/gal)**  
**pH: 7.5**

**Drilling Assembly: Retrieveable Core Barrel Assembly: 4 m**  
**83 joints NQ @ 249 m**

**Remarks: Changed Series # 6 bit for PDC**  
**Increase in rate of penetration**  
**Full Recovery with excellent Quality.**

**Drilling Superintendent: Ed. Weiterman Ed. Weiterman**

Drilling Superintendent: Ed. Weiterman Ed. Weiterman

**American Reserve Energy Canada Corp.**

**Daily Report #4**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date: July 20, 2001**

**Well: Flat Bay 93 – 101 # 1**

**Current Operation: Coring in Halite**

**Current Day Depth 301m (988')**

**Previous Day Depth: 253m (830') [started coring @ 220m]**

**Footage 24 Hours meters 48m (157.5')**

**Formation: Codroy Road (Halite unit)**

**Drilling Parameters: Wt: 0.5 to 1 Ton: RPM 100-130:  
Pump: 8gal/min @ 300psi**

**Drilling Fluid: Viscous Salt Brine Mud  
Viscosity: 50 Ocean Salt Water + Matex  
Density: 1200kg/m<sup>3</sup> (10 lbs/gal)  
pH: 7.5**

**Drilling Assembly: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13')  
100 joints NQ @ 301 m (988')**

**Remarks: Bit # 4 PDC  
Increase in rate of penetration 1.35m/hr – 3.13m/hr  
Full Recovery with excellent Quality.**

Drilling Superintendent: Ed. Weiterman Ed. Weiterman



**American Reserve Energy Canada Corp.**

**Daily Report #5**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date: July 21, 2001**

**Well: Flat Bay 93 – 101 # 1**

**Current Operation: Coring in Halite**

**Current Day Depth 361m (1184') @ 24:00 hrs.**

**Previous Day Depth: 301m (988') [started coring @ 220m]**

**Footage 24 Hours meters 60m (196.8')**

**Formation: Codroy Road (Halite unit)**

**Drilling Parameters: WOB: 0.5 to 1.5 Ton: RPM 200:  
Pump: 8gal/min @ 300psi. Avg. ROP=5m/hr**

**Drilling Fluid: Viscous Salt Brine Mud  
Ocean Salt Water + Matex**

	<b><u>In</u></b>	<b><u>Out</u></b>
Viscosity:	36	36
Mud Weight	10.1	10.2 lb/gal
PH	7	7

**Drilling Assembly: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13')**

**124 joints NQ @ 375 m + 1m (1234')  
@ 07:00 hr. Depth = 376m (1234')**

**Remarks: Bit # 4 PDC 12hrs On bottom: 12hrs retr core & land  
BBL.: Full Core Recovery with excellent Quality.**

**American Reserve Energy Canada Corp.**

**Daily Report #6**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date:** July 22, 2001

**Well:** Flat Bay 93 – 101 # 1

**Current Operation:** Coring in Halite

**Current Day Depth** 415m (1362') @ 24:00 hrs.

**Previous Day Depth:** 361m (1184') [started coring @ 220m]

**Footage 24 Hours meters** 54m (177.2')

**Formation:** Codroy Road (Halite unit)

**Drilling Parameters:** WOB:1.0 Ton: RPM 200: HYDC = 72 units  
Pump: 8gal/min @ 300psi. Avg. ROP=5.4m/hr

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.2	10.2 lb/gal
PH	7	7

**Drilling Assembly:** Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13')  
143 joints NQ @ 429 m + 1 m (1411')  
@ 07:00 hr. Depth = 430m (1411')

**Remarks:** Bit # 4 PDC 10hrs On bottom: 14hrs retr core & land  
BBL.: Full Core Recovery with excellent Quality.  
Survey: @ 394m Inc: 2° Az: 316°  
Run DBL line block for excess string weight.

**Drilling Superitendent:** Ed. Weiterman *Ed. Weiterman*

## Donna Taylor - Daliy Reports July 23/01

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**From:** Roland Strickland <roland.strickland@nf.sympatico.ca>  
**To:** Wes Foote <wesfoote@mail.gov.nf.ca>, Donna Taylor <donnataylor@mail.gov.nf.ca>  
**Date:** 7/23/01 10:34 AM  
**Subject:** Daliy Reports July 23/01

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Hello Guys:

To follow 3 attachments.

The accumulator is working with the new nitrogen tanks. (Accumulator working pressure 2000 psi).

The CAODC will be complete and ready to be forwarded your way today.

We are presently in Anhydrite. Hopefully we are at the bottom of this vaporite sequence.

When I drilled the Vulcan well the bottom Anhydrite was 35m thick. Then into Ship Cove Limestone 10m. Then to Fishell's Conglomerate.

We are presently @ 487 & still in Anhydrite.

Consequently we will need approval to drill this well to TD 600m.

We will keep you all informed as to what we are doing on whatever basis you need.

Regards

Roland.

**American Reserve Energy Canada Corp.**

**Daily Report #7**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

Date: July 23, 2001

Well: Flat Bay 93 - 101 #

Current Operation: Coring in Anhydrite

Current Day Depth: 472m (1803')

Previous Day Depth: 415m (1362') [start

Footage 24 Hours meters: 57m (187.0')

Formation: Codroy Road (Anhydrite unit)

Drilling Parameters: WOB: 1.0 Ton: RPM 200: HYDC = 78 units  
Pump: 8gal/min @ 400psi. Avg. ROP=5.4m/hr

Drilling Fluid: Viscous Salt Brine Mud  
Ocean Salt Water + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Drilling Assembly: Joint # 1: Retrieveable Core Barrel Assembly:  
4 m (13')

158 joints NQ @ 471 m + 1 m (1549')  
@ 07:00 hr. Depth = 484m (1588') Anhydrite

Remarks: Bit # 4 PDC 10hrs On bottom: 14hrs retr core & land  
BBL.: Full Core Recovery with excellent Quality.  
Survey: @ 394m Inc: 2° Az: 316°  
Hole Conditions Very Good.

Drilling Superintendent: Greg Walsh Greg Walsh

493

Anhydrite

5.4 m/hr  
1.5 gpm

**American Reserve Energy Canada Corp.**

**Daily Report #8**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date: July 24, 2001**

**Well: Flat Bay 93 – 101 # 1**

**Current Operation: Coring in Anhydrite**

**Current Day Depth 523m (1715') @ 24:00 hrs.**

**Previous Day Depth: 472m (1549') [started coring @ 220m]**

**Footage 24 Hours meters 51m (167.0')**

**Formation: Codroy Road (Anhydrite unit)**

**Drilling Parameters: WOB:1.0 Ton: RPM 200: HYDC = 86 units  
Pump: 8gal/min @ 400psi. Avg. ROP=4.25m/hr**

**Drilling Fluid: Viscous Salt Brine Mud  
Ocean Salt Water + Matex**

	<b><u>In</u></b>	<b><u>Out</u></b>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

**Drilling Assembly: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13')**

174 joints NQ @ 522 m + 1 m (1716')  
@ 07:00 hr. Depth = 535m (1755') Anhydrite

**Remarks: Bit # 4 PDC 10hrs On bottom: 14hrs retr core & land  
BBL.: Full Core Recovery with excellent Quality.  
HYDC increase from 78 – 86 units.  
Hole Conditions Very Good.**

**Drilling Superintendent: Greg Walsh Greg Walsh**

## Donna Taylor - Daily Report July 25/01

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**From:** Roland Strickland <roland.strickland@nf.sympatico.ca>  
**To:** Wes Foote <wesfoote@mail.gov.nf.ca>, Donna Taylor <donnaataylor@mail.gov.nf.ca>, Dale Steinkuehler <dale.steinkuehler@americanreserve.com>  
**Date:** 7/25/01 11:34 AM  
**Subject:** Daily Report July 25/01

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Hello Folks:

To follow 2 attachments.

Regards

Roland.

**American Reserve Energy Canada Corp.**

**Daily Report #9**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date: July 25, 2001**

**Well: Flat Bay 93 – 101 # 1**

**Current Operation: Control Drilling to Casing Point: Coring in Anhydrite**

**Current Day Depth 580m (1902.8') @ 24:00 hrs.**

**Previous Day Depth: 523m (1715') [started coring @ 220m]**

**Footage 24 Hours meters 57m (187.0')**

**Formation: Codroy Road (Anhydrite unit)**

**Drilling Parameters: WOB:1.0 Ton: RPM 200: HYDC = 89 units  
Pump: 8gal/min @ 300psi. Avg. ROP=4.75m/hr**

**Drilling Fluid: Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex**

	<b><u>In</u></b>	<b><u>Out</u></b>
Viscosity:	31	31
Mud Weight	10.05	10.05 lb/gal
PH	7	7

**Drilling Assembly: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13')**

**193 joints NQ @ 579 m + 1 m (1902')  
@ 07:00 hr. Depth = 592m (1942') Halite**

**Remarks: Bit # 4 PDC 12hrs On bottom: 12hrs retr core & land BBL.:  
Full Core Recovery with excellent Quality.  
HYDC increase from 86 – 90 units.  
Hole Conditions Very Good.**

**Drilling Superintendent: Greg Walsh Greg Walsh**

## **Donna Taylor - Daily Report July 26/01**

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**From:** Roland Strickland <roland.strickland@nf.sympatico.ca>  
**To:** WEs Foote <w.foote@roadrunner.nf.net>, Wes Foote <wesfoote@mail.gov.nf.ca>, Gerald Butt <petroltd@thezone.net>, Donna Taylor <donnaataylor@mail.gov.nf.ca>, Dale Steinkuehler <dale.steinkuehler@americanreserve.com>  
**Date:** 7/26/01 2:23 PM  
**Subject:** Daily Report July 26/01

---

Hello Folks::

To follow 2 attachments.

I have included two e-mail addresses for the Drilling Engineer because of his busy schedule!!!!!!

Have a good One

Regards

Roland.



**American Reserve Energy Canada Corp.**

**Daily Report #10**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date:** July 26, 2001

**Well:** Flat Bay 93 – 101 # 1

**Current Operation:** Control Drilling to Casing Point: Coring in  
Anhydrite w/ Calcareous Shale Laminae.

**Current Day Depth** 625m (2050.5') @ 24:00 hrs.

**Previous Day Depth:** 580m (1902.8') [started coring @ 220m]

**Footage 24 Hours meters** 45m (147.6')

**Formation:** Codroy Road (Anhydrite unit, increase in  
calcareous dark grey Shale)

**Drilling Parameters:** WOB:1.0 Ton: RPM 200: HYDC = 82 units  
Pump: 8gal/min @ 300psi. Avg. ROP=4.73m/hr  
Anhydrite @ 500psi: Calcareous Shale @ 525psi

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<b><u>In</u></b>	<b><u>Out</u></b>
Viscosity:	31	31
Mud Weight	10.1	10.1 lb/gal
PH	7	7

**Drilling Assembly:** Joint # 1:Retrieveable Core Barrel Assembly: 4 m  
(13')  
208 joints NQ @ 624 m + 1 m (2050.5')  
@ 07:00 hr. Depth = 640m (2099.7') Anhydrite w/  
Calcareous Shale.

Remarks:

Bit # 4 PDC 9.5hrs On bottom: 14.5hrs retr core & land  
BBL.:

Extra core runs were required because of Control Drilling  
towards Casing Point.

HYDC decrease from 90 – 82 units

Held BOP Drill with both crews, Discussed importance of  
alertness while drilling towards Casing Point.

Full Core Recovery with excellent Quality.

Hole Conditions Very Good.

Drilling Superintendent:

Greg Walsh

Greg Walsh

Project Manager:

Roland Strickland

Roland Strickland

## Donna Taylor - Daily Report July 27/01

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**From:** Roland Strickland <roland.strickland@nf.sympatico.ca>  
**To:** Wes Foote <wesfoote@mail.gov.nf.ca>, Donna Taylor <donnataylor@mail.gov.nf.ca>, Dale Steinkuehler  
<dale.steinkuehler@americanreserve.com>  
**Date:** 7/27/01 11:58 AM  
**Subject:** Daily Report July 27/01

---

Hello Folks:

To follow 3 attachments

Regards

Roland.

**American Reserve Energy Canada Corp.**

**Daily Report #11**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date:** July 27, 2001

**Well:** Flat Bay 93 – 101 # 1

**Current Operation:** Circulating at a reduced rate , waiting on parts.

**Current Day Depth** 649m (2129') @ 24:00 hrs.

**Previous Day Depth:** 625m (2050.5') [started coring @ 220m]

**Footage 24 Hours meters** 24m (78.7')

**Formation:** Codroy Road (Anhydrite unit, increase in calcareous dark grey Shale)

**Drilling Parameters:** WOB:1.0 Ton: RPM 200: HYDC = 79 units  
Pump: 8gal/min @ 500psi. in Anhydrite  
@ 525 psi in Calcareous Shale  
Avg. ROP=4.00m/hr

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	31	31
Mud Weight	10.1	10.1 lb/gal
PH	7	7

**Drilling Assembly:** Joint # 1:Retrieveable Core Barrel Assembly: 4 m (13')  
216 joints NQ @ 648 m + 1 m (2129')  
@ 07:00 hr. Depth = 649m (2129') Anhydrite w/  
Calcareous Shale.

Remarks: Bit # 4 PDC 6hrs On bottom: 7hrs retr core & land BBL.:  
11 hrs circulating, waiting on parts.  
Extra core runs were required because of Control Drilling  
towards Casing Point.  
HYDC decrease from 82 – 78 units  
Full Core Recovery with excellent Quality.  
Hole Conditions Very Good.

24 Hr Look Ahead: Install New 3" Annular Element  
Function & Pressure Test Upper & Lower Annular  
Preventers to 1500 psi for 10 min.  
Control Drilling to Casing Point.

Drilling Superintendent:	Greg Walsh	Greg Walsh
Project Manager:	Roland Strickland	Roland Strickland

## **Donna Taylor - Daily Report July 28/01**

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**From:** Roland Strickland <roland.strickland@nf.sympatico.ca>  
**To:** Wes Foote <wesfoote@mail.gov.nf.ca>, Donna Taylor <donnataylor@mail.gov.nf.ca>  
**Date:** 7/29/01 6:51 AM  
**Subject:** Daily Report July 28/01

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Hello Folks:

To follow 3 attachments.

Regards

Roland.

**American Reserve Energy Canada Corp.**

**Daily Report #12**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date:** July 28, 2001

**Well:** Flat Bay 93 – 101 # 1

**Current Operation:** Rigging up to wash & ream over NQ with HQ,  
starting @ 220.2m

**Current Day Depth** 655m (2149') @ 24:00 hrs.

**Previous Day Depth:** 649m (2129') [started coring @ 220m]

**Footage 24 Hours meters** 6m (19.7')

**Formation:** Codroy Road (Anhydrite unit, increase in Shale  
calcareous dark grey)

**Drilling Parameters:** WOB:1.0 Ton: RPM 200: HYDC = 52 units  
Pump: 8gal/min @ 500psi. in Anhydrite  
@ 525 psi in Calcareous Shale  
@ 800 psi in Limestone  
Avg. ROP=4.00m/hr

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.2	10.2 lb/gal
PH	7	7

**Drilling Assembly:** Joint # 1:Retrieveable Core Barrel Assembly: 4 m  
(13')  
220 joints NQ @ 660 m + 1 m (2165')  
@ 07:00 hr. Depth = Casing Point 661m (2168.6')  
Anhydrite w/ Ship Cove Limestone.

Remarks: Bit # 4 PDC 1.5 hrs On bottom: 1.5 hrs retr core & land  
BBL.: 21 hrs circulating, waiting on parts.  
Tool box talk with both crews regarding monitoring  
equipment & wellbore influx.  
Installed new 3" upper annular element. Tested same to  
1.5mPa 5min: 10.4 mPa 10min.  
Full Core Recovery with excellent Quality.  
Hole Conditions Very Good.  
Well in stable conditions with no Losses or Gains.

24 Hr Look Ahead: R/U to wash & ream to TD with HQ over the NQ to  
Casing Point while monitoring Well Control.

Drilling Superintendent:	Greg Walsh	Greg Walsh
Project Manager:	Roland Strickland	Roland Strickland



## **Donna Taylor - Daily Report July 29/01**

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**m:** Roland Strickland <roland.strickland@nf.sympatico.ca>  
**To:** Wes Foote <wesfoote@mail.gov.nf.ca>, Donna Taylor <donnaataylor@mail.gov.nf.ca>, Dale Steinkuehler  
<dale.steinkuehler@americanreserve.com>  
**Date:** 7/29/01 8:40 PM  
**Subject:** Daily Report July 29/01

---

Hello Folks:

To follow 2 attachments.

Regards

Roland.

**American Reserve Energy Canada Corp.**

**Daily Report #13**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date:** July 29, 2001

**Well:** Flat Bay 93 – 101 # 1

**Current Operation:** Wash & ream over NQ with HQ, starting @ 220.2m to Casing Point.

**Current Day Depth** 661 m (2168') @ 24:00 hrs.

**Previous Day Depth:** 655m (2149') [started coring @ 220m]

**24 Hours meters (footage)** 6m (19.7')

**Formation:** Ship Cove Limestone (Transition Zone ) with interbedded Anhydrite.

**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 150-2000: HYDC = 49 units. Pump: 7gal/min @ 200-400 psi in Salt. Avg. ROP=4.00m/hr

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
**Ship Cove Limestone w/ interbedded Anhydrite.**

**Drilling Assembly:** HQ:83 Joints HQ @ 250m - 1m (823.5')  
@07:00 hr Depth = 251 m.  
**Formation:** Codroy Road (Halite Unit)

**Remarks:** Control drilled to Casing Point. Flow checking as required. Recover Core. Flow check and circulate hole clean.  
Reaming over NQ with HQ from 220-661m  
Work free tight HQ @ 220.2m.  
Wash & ream over NQ with HQ from 220m-244m.  
Indications of pump pressure increase & head pressure or WOB increase. POOH to check shoe.  
All inserts worn off HQ shoe: probably due to junk damage from previous drilling contractor.  
M/U new shoe. RIH. Ream from 238m - 250m @ 07:00  
Hole taking in volume. No returns while reaming.  
Mixing drilling mud (note properties above).  
Pumping high Vis: Hi weighted sweeps while drilling.  
Monitoring fluid level while making connections.  
No drag.

**24 Hr Look Ahead:** Continue reaming to Casing Point while monitoring Well & mixing drilling mud + sweeps.

<b>Drilling Superintendent:</b>	Greg Walsh	<i>Greg Walsh</i>
<b>Project Manager:</b>	Roland Strickland	<i>Roland Strickland</i>

## Donna Taylor - Daily Report July 30/01

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**From:** Roland Strickland <roland.strickland@nf.sympatico.ca>  
**To:** Wes Foote <wesfoote@mail.gov.nf.ca>, Donna Taylor <donna.taylor@mail.gov.nf.ca>, Dale Steinkuehler <dale.steinkuehler@americanreserve.com>  
**Date:** 7/30/01 2:31 PM  
**Subject:** Daily Report July 30/01

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Hello Folks:

To follow 2 attachments.

Regards

Roland.

**American Reserve Energy Canada Corp.**

**Daily Report #14**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date:** July 30, 2001

**Well:** Flat Bay 93 – 101 # 1

**Current Operation:** Wash & ream over NQ with HQ, starting @ 220.2m to Casing Point.

**Current Day Depth** 336 m (1102') @ 24:00 hrs.

**Previous Day Depth:** 244m (800') [started coring @ 220m]

**24 Hours meters (footage)** 92m (302')

**Formation:** Codroy Road (Halite Unit)

**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 200-250: HYDC = 48 units. Pump: 7gal/min @ 200-400 psi in Salt. Avg. ROP=6.00m/hr

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
**Ship Cove Limestone w/ interbedded Anhydrite.**

**Reaming Assembly:** HQ: 121 Joints HQ @ 360m - 1m (1184.4')  
@07:00 hr Depth = 361 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Reamed ahead with no returns to surface.  
Mixing viscous Salt Brine Mud @ 32 Vis, 10.1 weight & pH 7.  
Pumping High Viscous matex sweeps as required.  
Monitoring fluid level while making connections. No change.  
Matex sweeps showing improvement on torque.  
No drag up or down  
Indications shoe is wearing.

**24 Hr Look Ahead:** POOH to inspect reaming shoe.  
Monitoring Well while tripping out rods & RIH.  
Mixing mud as required  
RIH & Ream ahead to Casing Point.

**Drilling Superintendent:** Greg Walsh *Greg Walsh*  
**Project Manager:** Roland Strickland *Roland Strickland*

**American Reserve Energy Canada Corp.****Daily Report #15****Tel: 709-649 1375****Fax: 709-643-2358****Date: July 31, 2001****Well: Flat Bay 93 - 101 # 1****Current Operation:** Pulling out of hole with NQ 76mm tubing,  
attempting to correct obstruction @ 165m (541')**Current Day Depth:** 661 m (2168') @ 24:00 hrs.  
Reamed to 361m (1184')**Fish Depth:** 165m (541')**Previous Day Depth:** 336m (1102')**24 Hours meters (footage)** 25m (82')**Formation:** Codroy Road Halite Unit.**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 200-250: HYDC = 48  
units. Pump: 7gal/min @ 200-400 psi in Salt.  
Avg. ROP=6.00m/hr**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

Note: Full returns-no losses, no gains.

**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'); 220 Joints NQ @ 660m + 1m (2165')  
Ship Cove Limestone w/ interbedded  
Anhydrite.

Drilling Superintendent: Greg Walsh      *Greg Walsh*  
Project Manager: Roland Strickland      *Roland Strickland*  
Wellsite Geologist: Kevin England      *Kevin England*



**American Reserve Energy Canada Corp.**

**Daily Report #16**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date: August 1, 2001**

**Well: Flat Bay 93 - 101 # 1**

**Current Operation:** Pulling out of hole with NQ 76mm tubing,  
attempting to correct obstruction @ 165m (541')

**Current Day Depth:** 661 m (2168') @ 24:00 hrs.  
Reamed to 361m (1184')

**Fish Depth:** 166m (544')

**Previous Day Depth:** 336m (1102')

**24 Hours meters (footage)** 13m (43')

**Formation:** Codroy Road Halite Unit.

**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 200-250: HYDC = 48  
units. Pump: 7gal/min @ 200-400 psi in Salt.  
Avg. ROP=6.00m/hr

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

Note: Lost circulation encountered at 172m

**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
**Ship Cove Limestone w/ interbedded  
Anhydrite.**

**Reaming Assembly:** HQ: 60 Joints HQ @ 175m + 1m (587')  
@07:00 hr Depth = 171 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Made up Clusterite Milling shoe and RIH with same.  
Tag fish @ 168m.  
Mill fish to 175m.  
Pull out of hole to change Milling Shoe.  
RIH with new milling shoe.  
Lost returns, spot Matex, Sawdust and Expand  
LCM pill @ 165m.  
Tag fish @ 165m and mill on same.

**24 Hr Look Ahead:** Mill ahead on fish.  
Ream to bottom.

<b>Drilling Superintendent:</b>	Bill Williams	<i>Bill Williams</i>
<b>Project Manager:</b>	Roland Strickland	<i>Roland Strickland</i>
<b>Wellsite Geologist:</b>	Kevin England	<i>Kevin England</i>

**American Reserve Energy Canada Corp.**

**Daily Report #17**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date: August 2, 2001**

**Well: Flat Bay 93 - 101 # 1**

**Current Operation:** Pulling out of hole with HQ 76mm tubing.

**Current Day Depth:** 661 m (2168') @ 24:00 hrs.

Reamed to 361m (1184')

**Fish Depth:** 168m (551')

**Previous Day Depth:** 336m (1102')

**24 Hours meters (footage)** 2m (6.6')

**Formation:** Codroy Road Halite Unit.

**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 200-250: HYDC = 48  
units. Pump: 7gal/min @ 200-400 psi in Salt.  
Avg. ROP=6.00m/hr

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

Note: Full returns.

**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
Ship Cove Limestone w/ interbedded  
Anhydrite.

**Reaming Assembly:** HQ: 60 Joints HQ @ 175m + 1m (587')  
@07:00 hr Depth = 171 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Made up Clusterite Milling shoe and RIH with same.  
Tag fish @ 166m. Milled through @ 168m.  
Regain full returns.  
Ream formation to 179m.  
Pull out of hole to change Milling Shoe.  
RIH with new reaming shoe.  
Tag fish again at 168m.  
Reaming shoe failed.  
POOH to replace reaming shoe.  
Wait on new milling shoe.

**24 Hr Look Ahead:** RIH with new milling shoe.  
Ream to bottom.

<b>Drilling Superintendent:</b>	Bill Williams	<i>Bill Williams</i>
<b>Project Manager:</b>	Roland Strickland	<i>Roland Strickland</i>
<b>Wellsite Geologist:</b>	Kevin England	<i>Kevin England</i>

**American Reserve Energy Canada Corp.****Daily Report #18****Tel: 709-649 1375****Fax: 709-643-2358****Date: August 3, 2001****Well: Flat Bay 93 - 101 # 1****Current Operation:** Pulling out of hole with HQ 96mm tubing.**Current Day Depth:** 661 m (2168') @ 24:00 hrs.

Reamed to 364m (1194')

**Fish Depth:** 168m (551')**Previous Day Depth:** 336m (1102')**24 Hours meters (footage)** 0m (0')**Formation:** Codroy Road Halite Unit.**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 50-75: HYDC = 48 units.

Pump: 7gal/min @ 200-400 psi in Salt.

Avg. ROP=6.00m/hr

**Drilling Fluid:** Viscous Salt Brine Mud

Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

**Note:** Full returns.**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:

4 m (13'): 220 Joints NQ @ 660m + 1m (2165')

**Ship Cove Limestone w/ interbedded  
Anhydrite.**

**Reaming Assembly:** HQ: 60 Joints HQ @ 175m + 1m (587')  
@07:00 hr Depth = 171 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Attempt to ream at 364m.  
Unable to circulate-POOH.  
Make up milling shoe and RIH with same.  
Tag fish @ 165m, mill to 168m.  
Ream from 168m to 174m.  
Spot hi-vis pill and POOH.  
Rig up to retrieve NQ tubing.  
Check joints at 175m-OK, RIH with NQ to TD.

**24 Hr Look Ahead:** Mill fish and attempt to ream to bottom.

<b>Drilling Superintendent:</b>	Bill Williams	<i>Bill Williams</i>
<b>Project Manager:</b>	Roland Strickland	<i>Roland Strickland</i>
<b>Wellsite Geologist:</b>	Kevin England	<i>Kevin England</i>

**American Reserve Energy Canada Corp.****Daily Report #20****Tel: 709-649 1375****Fax: 709-643-2358****Date: August 5, 2001****Well:** Flat Bay 93 - 101 # 1**Current Operation:** Milling ahead on fish**Current Day Depth:** 661 m (2168') @ 24:00 hrs.  
Reamed to 361m (1184')**Fish Depth:** 171m (560')**Previous Day Depth:** 336m (1102')**24 Hours meters (footage)** 0m (0')**Formation:** Codroy Road Halite Unit.**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 200-250: Milling at 75  
RPM. HYDC = 48 units. Pump: 7gal/min @ 200-  
400 psi in Salt.**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

Note: Full returns.

**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
Ship Cove Limestone w/ interbedded  
Anhydrite.

**Reaming Assembly:** HQ: 60 Joints HQ @ 175m + 1m (587')  
@07:00 hr Depth = 171 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Make up new milling shoe and RIH.  
Mill on fish at from 168m to 170m. POOH.  
Make up new milling shoe with x-o stabilizer and  
RIH with same to 163m.  
Rotate mill slowly through tight spots, failed to  
break through, POOH.

**24 Hr Look Ahead:** RIH with new milling shoe.  
Mill fish and attempt to team to bottom.

<b>Drilling Superintendent:</b>	Bill Williams	<i>Bill Williams</i>
<b>Project Manager:</b>	Roland Strickland	<i>Roland Strickland</i>
<b>Wellsite Geologist:</b>	Kevin England	<i>Kevin England</i>



**American Reserve Energy Canada Corp.****Daily Report #21****Tel: 709-649 1375****Fax: 709-643-2358****Date: August 6, 2001****Well: Flat Bay 93 - 101 # 1****Current Operation:** Milling ahead on fish  
**Current Day Depth:** 661 m (2168') @ 24:00 hrs.

Reamed to 361m (1184')

**Fish Depth:** 170m (564')**Previous Day Depth:** 336m (1102')**24 Hours meters (footage)** 0m (0')**Formation:** Codroy Road Halite Unit.**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 200-250: Milling at 75  
RPM. HYDC = 48 units. Pump: 7gal/min @ 200-  
400 psi in Salt.**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

Note: Full returns.

**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
**Ship Cove Limestone w/ interbedded**  
**Anhydrite.**

**Reaming Assembly:** HQ: 60 Joints HQ @ 175m + 1m (587')  
@07:00 hr Depth = 171 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Make up new milling shoe with stabilizer and RIH.  
Unable to rotate with stabilizer-POOH.  
Lay out stabilizer and RIH with milling shoe.  
Tag fish at 170m and mill to 172m.  
POOH.  
NQ tubing caught up on HQ tubing.  
RIH and release NQ on bottom.  
POOH and wait on new milling shoe.

**24 Hr Look Ahead:** Mill fish and attempt to ream to bottom.

<b>Drilling Superintendent:</b>	Bill Williams	<i>Bill Williams</i>
<b>Project Manager:</b>	Roland Strickland	<i>Roland Strickland</i>
<b>Wellsite Geologist:</b>	Kevin England	

**American Reserve Energy Canada Corp.****Daily Report #22****Tel: 709-649 1375****Fax: 709-643-2358****Date: August 7, 2001****Well: Flat Bay 93 - 101 # 1****Current Operation: Milling ahead on fish****Current Day Depth: 661 m (2168') @ 24:00 hrs.  
Reamed to 361m (1184')****Fish Depth: 172m (564')****Previous Day Depth: 336m (1102')****24 Hours meters (footage) 0m (0')****Formation: Codroy Road Halite Unit.****Reaming Parameters: WOB:1.0-2.0 Ton: RPM 200-250: Milling at 75  
RPM. HYDC = 48 units. Pump: 7gal/min @ 200-  
400 psi in Salt.****Drilling Fluid: Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex**

	<b><u>In</u></b>	<b><u>Out</u></b>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

**Pumping high Vis Matex Sweeps****Note: Full returns.****Drilling Assembly: NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
Ship Cove Limestone w/ interbedded  
Anhydrite.**

**Reaming Assembly:** HQ: 60 Joints HQ @ 164m + 1m (541')  
@07:00 hr Depth = 168 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Pull out of hole to change Milling Shoe.  
RIH with new reaming shoe.  
Tag fish again at 168m.  
Reaming shoe failed.  
POOH to replace reaming shoe.  
Wait on new milling shoe.  
Make up Milling Shoe and RIH to 168m.  
Mill from 168m to 170m.  
Ream from 170m to 364m

**24 Hr Look Ahead:** RIH with new milling shoe.  
Ream to bottom.

<b>Drilling Superintendent:</b>	Bill Williams	<i>Bill Williams</i>
<b>Project Manager:</b>	Roland Strickland	<i>Roland Strickland</i>
<b>Wellsite Geologist:</b>	Kevin England	<i>Kevin England</i>

**American Reserve Energy Canada Corp.**

**Daily Report #19**

**Tel: 709-649 1375**

**Fax: 709-643-2358**

**Date:** August 4, 2001

**Well:** Flat Bay 93 - 101 # 1

**Current Operation:** Milling ahead on fish

**Current Day Depth:** 661 m (2168') @ 24:00 hrs.

Reamed to 361m (1184')

**Fish Depth:** 168m (551')

**Previous Day Depth:** 336m (1102')

**24 Hours meters (footage)** 0m (0')

**Formation:** Codroy Road Halite Unit.

**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 200-250: Milling at 75 RPM. HYDC = 48 units. Pump: 7gal/min @ 200-400 psi in Salt.

**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

Note: Full returns.

**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
Ship Cove Limestone w/ interbedded  
Anhydrite.

**Reaming Assembly:** HQ: 60 Joints HQ @ 175m + 1m (587')  
@07:00 hr Depth = 171 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Wait on new milling shoe.  
Make up new milling shoe and RIH with same.  
Tag fish at 172m and mill to 175m.  
POOH.  
Make up new milling shoe and RIH.  
Tag fish at 175m and attempt to mill.  
NQ pipe twisted off-POOH.

**24 Hr Look Ahead:** RIH with HQ pipe over the twisted off NQ.  
RIH with NQ mill and mill off top of NQ tubing.  
POOH and RIH with spear assembly to pull out NQ.

**Drilling Superintendent:** Bill Williams *Bill Williams*  
**Project Manager:** Roland Strickland *Roland Strickland*  
**Wellsite Geologist:** Kevin England

**American Reserve Energy Canada Corp.****Daily Report #23****Tel: 709-649 1375****Fax: 709-643-2358****Date: August 8, 2001****Well: Flat Bay 93 - 101 # 1****Current Operation:** Attempt to spear twisted off NQ tubing.**Current Day Depth:** 661 m (2168') @ 24:00 hrs.

Reamed to 361m (1184')

**Fish Depth:** 172m (564')**Previous Day Depth:** 336m (1102')**24 Hours meters (footage)** 0m (0')**Formation:** Codroy Road Halite Unit.**Reaming Parameters:** WOB:1.0-2.0 Ton: RPM 200-250: Milling at 75  
RPM. HYDC = 48 units. Pump: 7gal/min @ 200-  
400 psi in Salt.**Drilling Fluid:** Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex

	<u>In</u>	<u>Out</u>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

Pumping high Vis Matex Sweeps

**Note:** Full returns.**Drilling Assembly:** NQ: Joint # 1:Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
Ship Cove Limestone w/ interbedded  
Anhydrite.

**Reaming Assembly:** HQ: 60 Joints HQ @ 175m + 1m (587')  
@07:00 hr Depth = 171 m.  
**Formation: Codroy Road (Halite Unit)**

**Remarks:** Wait on fishing tools from Springdale.  
Make up HQ drive shoe and RIH to tag NQ fish at 171m.  
Make up spear and mill bit on NQ string and RIH with same.  
Ream top of fish at 173m. Tap into top of NQ tubing fish and attempt to retrieve, fail.  
POOH with NQ tubing fishing string.  
RIH with bull nose mill bit assembly on NQ tubing.

**24 Hr Look Ahead:** Attempt to mill and retrieve NQ tubing.

<b>Drilling Superintendent:</b>	Bill Williams	<i>Bill Williams</i>
<b>Project Manager:</b>	Roland Strickland	<i>Roland Strickland</i>
<b>Wellsite Geologist:</b>	Kevin England	



**American Reserve Energy Canada Corp.****Daily Report #24****Tel: 709-649 1375****Fax: 709-643-2358****Date: August 9, 2001****Well: Flat Bay 93 - 101 # 1****Current Operation: Drilling Suspended****Current Day Depth: 661 m (2168') @ 24:00 hrs.  
Reamed to 361m (1184')****NQ fish depth: 173.7m (569.7')****Fish Depth: 172m (564')****Previous Day Depth: 336m (1102')****24 Hours meters (footage) 0m (0')****Formation: Codroy Road Halite Unit.****Reaming Parameters: WOB:1.0-2.0 Ton: RPM 200-250: Milling at 75  
RPM. HYDC = 4 units. Pump: 7gal/min @ 200-  
400 psi in Salt.****Drilling Fluid: Viscous Salt Brine Mud  
Ocean Salt Water + Fisheries Salt + Matex**

	<b><u>In</u></b>	<b><u>Out</u></b>
Viscosity:	32	32
Mud Weight	10.1	10.1 lb/gal
PH	7	7

**Pumping high Vis Matex Sweeps****Note: Full returns.****Drilling Assembly: NQ: Joint # 1: Retrieveable Core Barrel Assembly:  
4 m (13'): 220 Joints NQ @ 660m + 1m (2165')  
Ship Cove Limestone w/ interbedded  
Anhydrite.**

Remarks:

### 24 Hr Look Ahead:

Drilling Superintendent: Bill Williams  
Project Manager: Roland Strickland  
Wellsite Geologist: Kevin England

End Of Data Submitted By  
American Reserve Energy (Canada) Corporation.

## **Appendix IV**

### **Drill Bit Record**

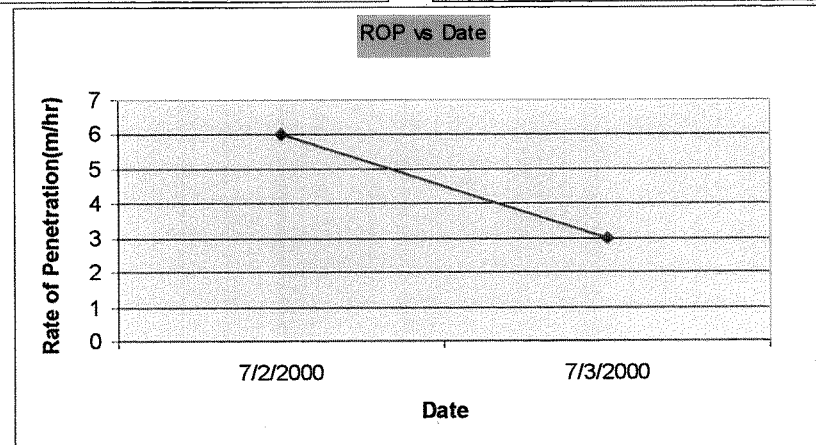
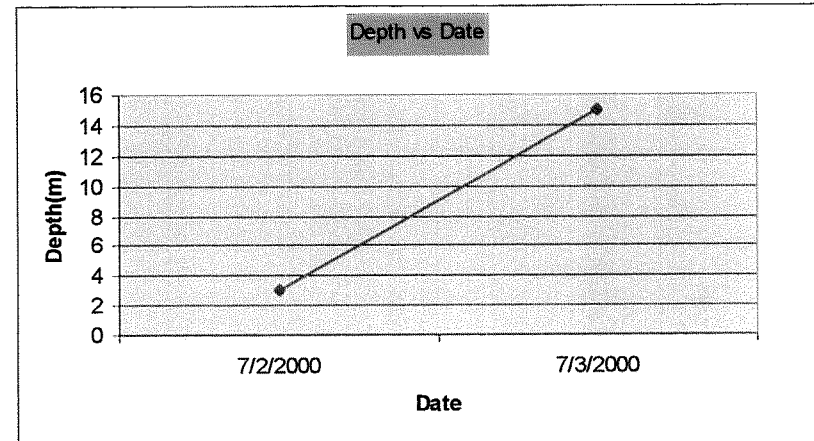
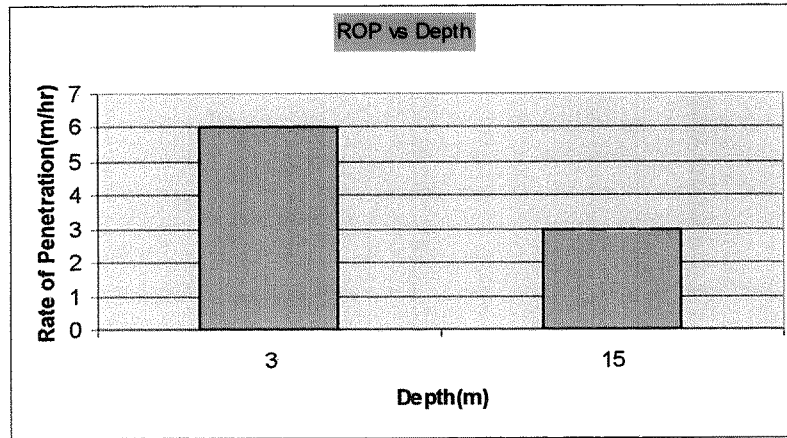
**Flat Bay #1**  
**Bit Record**

Bit	Size	Type	Serial #	Depth In	Depth Out	Comments
1	215.9mm	Percussion	N/A	0	12	Water well rig/conductor pipe
2	158.8mm	Percussion	N/A	12	15	Water well rig/conductor pipe
3	96mm	JK6	20304	15	18	
<u>Note:</u> At this time pipe got stuck down hole so the operator decided to move to abandon and skid rig over approx. 1.5m south.						
1	156mm	Percussion	N/A	0	143	Water well rig 168mm drive pipe to 50m. 114.3mm Surface casing at 143m.
2	76mm	Coring Bit	N/A	143	150	Drilled out cement
3	76mm	SERIES2	N/A	150	178	
4	76mm	Surface Set	3914	178	193	
5	76mm	SERIES2	2v6476	193	220	
6	76mm	SERIES6	N/A	220	253	
7	76mm	Bit #4 PDC	N/A	253	661	

**Appendix V**  
**Composite Well Record**

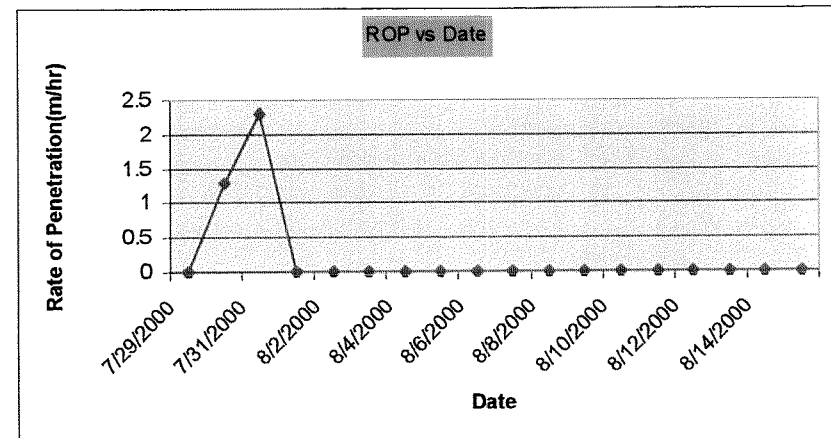
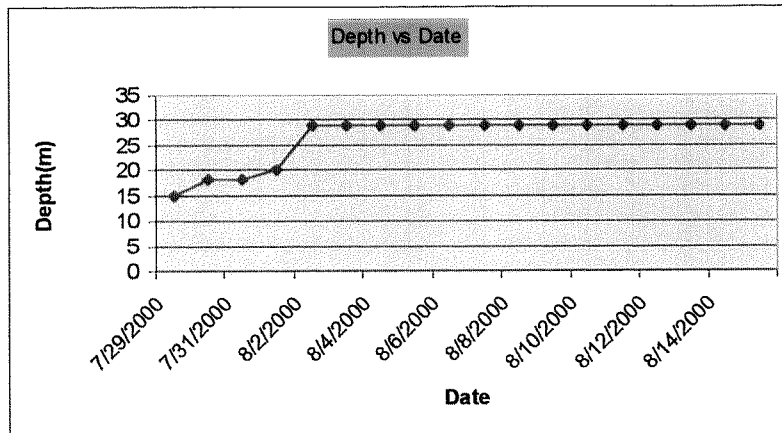
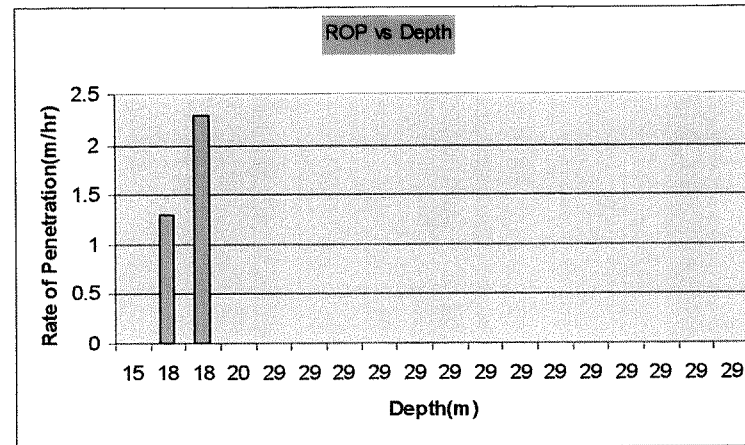
The following well data is for the Clearwater rig which spudded the well on July 2, 2000 at 10:00 am.  
Please note: ROP includes the time for drilling only.

Depth(m)	Date	Rate of Penetration(m/hr)
3	2-Jul-00	6
15	3-Jul-00	3



The following well data is for East Coast rig #1(Longyear 34). Longyear 34 was on site from July 29 to August 15, 2000. Only four hours of coring were done before the pipe got stuck. Please note: ROP includes time for coring and tripping.

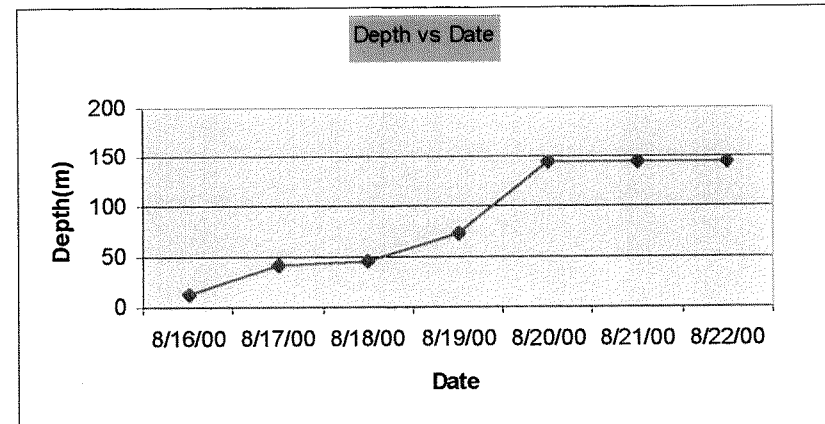
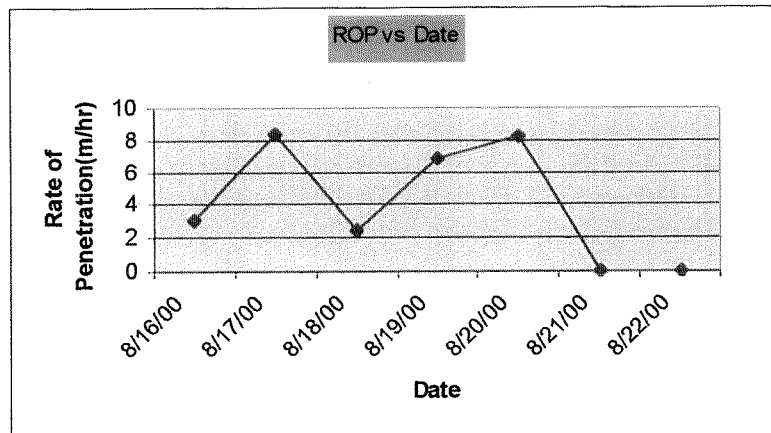
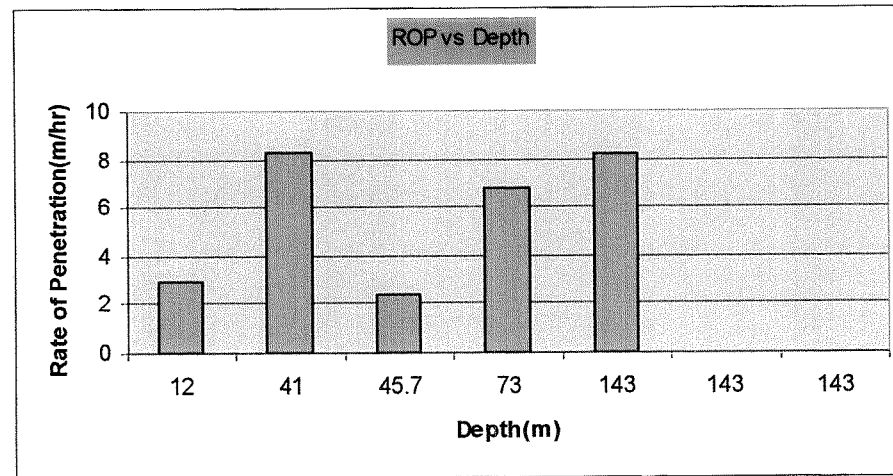
Rate of Penetration(m/hr)	Date	Depth
0	29-Jul-00	15
1.3	30-Jul-00	18
2.3	31-Jul-00	18
0	1-Aug-00	20
0	2-Aug-00	29
0	3-Aug-00	29
0	4-Aug-00	29
0	5-Aug-00	29
0	6-Aug-00	29
0	7-Aug-00	29
0	8-Aug-00	29
0	9-Aug-00	29
0	10-Aug-00	29
0	11-Aug-00	29
0	12-Aug-00	29
0	13-Aug-00	29
0	14-Aug-00	29
0	15-Aug-00	29





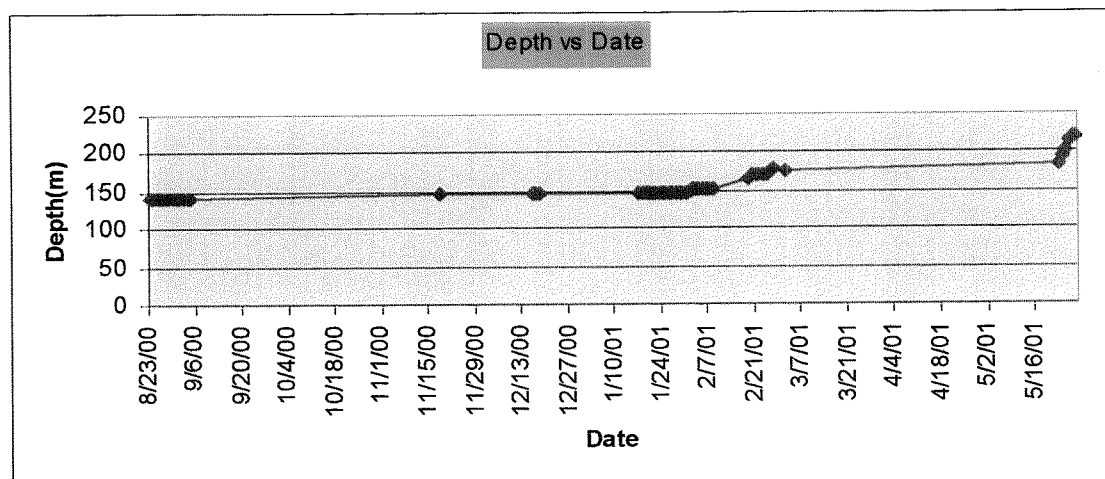
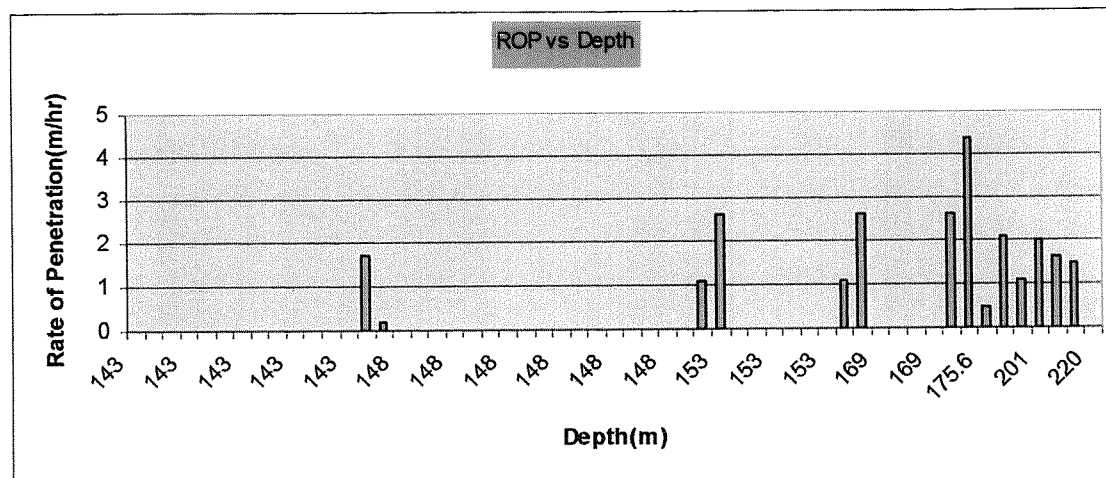
The following well data is for Clearwater's second spud. Because the pipe got stuck in the original hole the drilling contractor decided to move 1.5m south and continue drilling there. Clearwater was needed to spud the new hole. Clearwater was on site from August 16 to August 22, 2000 and drilled to a TD of 143m. Please note: ROP includes time for drilling only.

Rate of Penetration(m/hr)	Date	Depth(m)
3	16-Aug-00	12
8.3	17-Aug-00	41
2.4	18-Aug-00	45.7
6.8	19-Aug-00	73
8.2	20-Aug-00	143
0	21-Aug-00	143
0	22-Aug-00	143

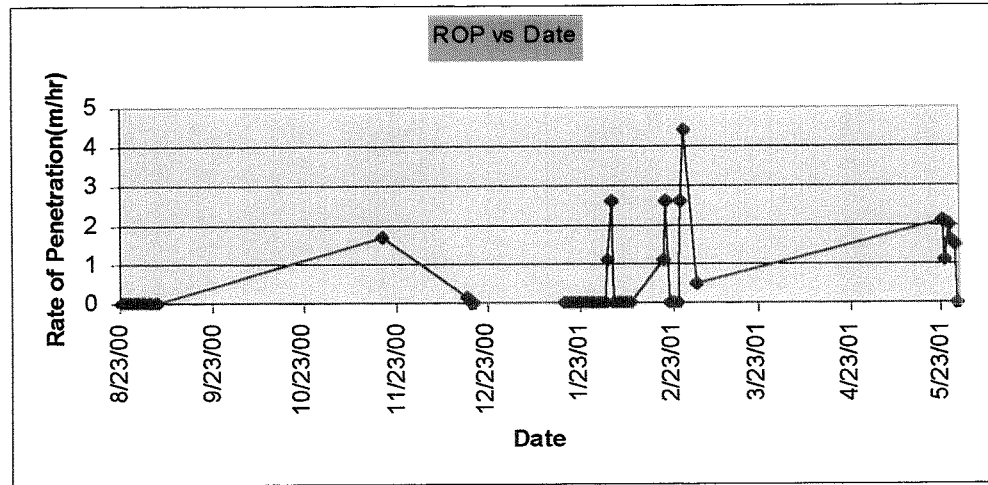


The following well data is for East Coast rig Longyear 38. The Longyear 38 was on rig site from August 23, 2000 to may 30, 2001. the rig drilled to a TD of 220m. Note that the break in dates was caused by the time it took for the Longyear 38 rig to be approved. Please note: ROP includes the time for both coring and tripping.

Rate of Penetration(m/hr)	Date	Depth
0	23-Aug-00	143
0	24-Aug-00	143
0	25-Aug-00	143
0	26-Aug-00	143
0	27-Aug-00	143
0	28-Aug-00	143
0	29-Aug-00	143
0	30-Aug-00	143
0	31-Aug-00	143
0	1-Sep-00	143
0	2-Sep-00	143
0	3-Sep-00	143
0	4-Sep-00	143
1.7	18-Nov-00	146
0.17	16-Dec-00	148
0	17-Dec-00	148
0	18-Dec-00	148
0	17-Jan-01	148
0	18-Jan-01	148
0	19-Jan-01	148
0	20-Jan-01	148
0	21-Jan-01	148
0	22-Jan-01	148
0	23-Jan-01	148
0	24-Jan-01	148
0	25-Jan-01	148
0	26-Jan-01	148
0	27-Jan-01	148
0	28-Jan-01	148
0	29-Jan-01	148
0	30-Jan-01	148
0	31-Jan-01	148

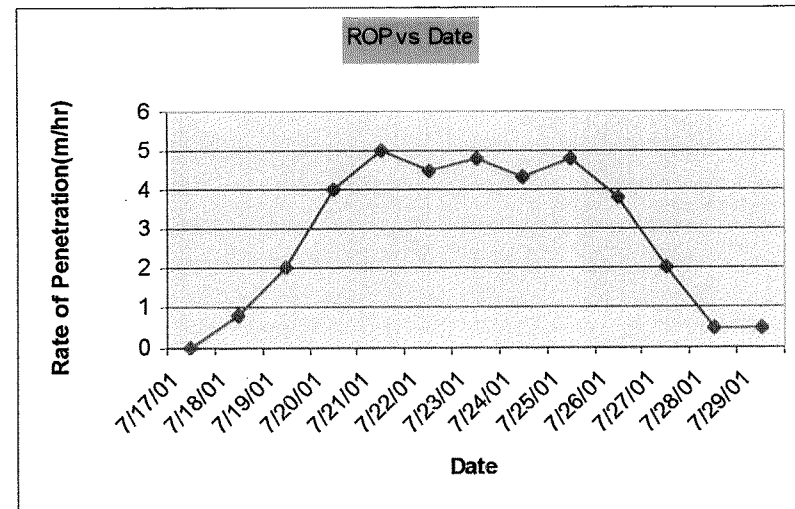
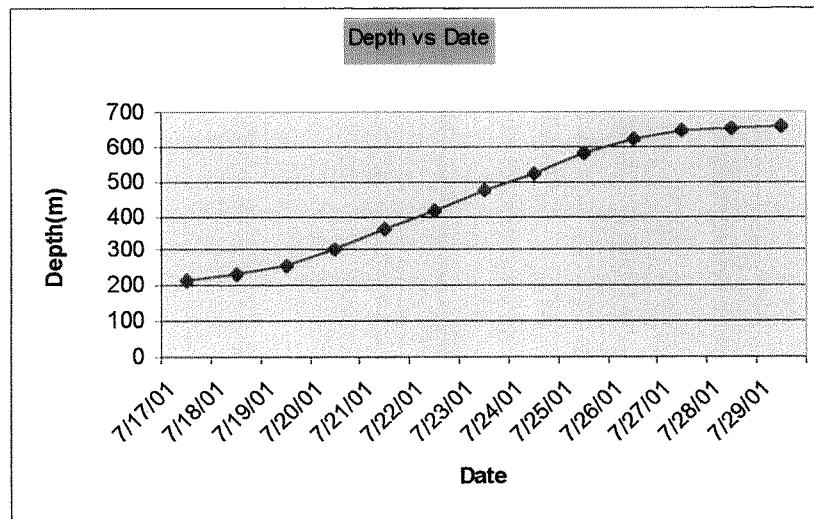
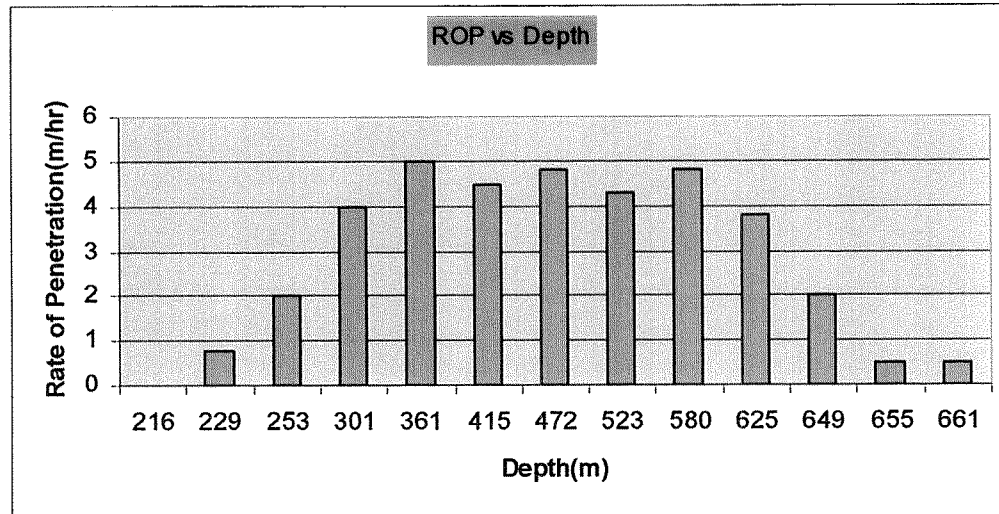


1.1	1-Feb-01	150
2.6	2-Feb-01	153
0	3-Feb-01	153
0	4-Feb-01	153
0	5-Feb-01	153
0	6-Feb-01	153
0	7-Feb-01	153
0	8-Feb-01	153
1.1	19-Feb-01	166
2.6	20-Feb-01	169
0	21-Feb-01	169
0	22-Feb-01	169
0	23-Feb-01	169
0	24-Feb-01	169
2.6	25-Feb-01	172
4.4	26-Feb-01	177
0.5	2-Mar-01	175.6
2.1	23-May-01	184
1.1	24-May-01	193
2	25-May-01	201
1.6	26-May-01	214
1.5	27-May-01	220
0	28-May-01	220

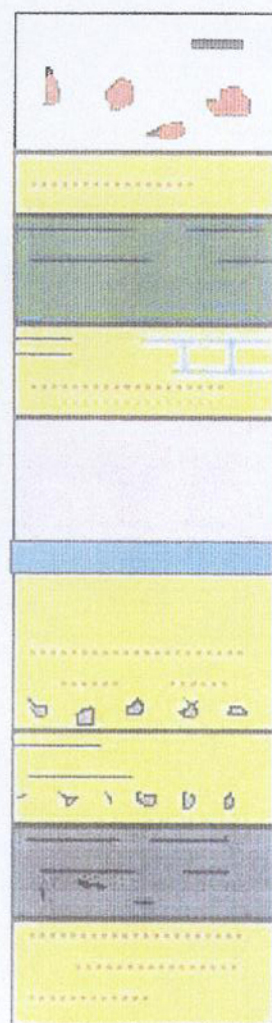


The following well data is for Petro. Drilling Co. who used a JKS-BBS 56 rig. Petro. Drilling Co. was on site from July 17 to August 9, 2001 and drilled to a TD of 671m before the well was suspended and abandoned. Please note: ROP includes time for all daily operations.

Rate of Penetration	Date	Depth
0	17-Jul-01	216
0.8	18-Jul-01	229
2	19-Jul-01	253
4	20-Jul-01	301
5	21-Jul-01	361
4.5	22-Jul-01	415
4.8	23-Jul-01	472
4.3	24-Jul-01	523
4.8	25-Jul-01	580
3.8	26-Jul-01	625
2	27-Jul-01	649
0.5	28-Jul-01	655
0.5	29-Jul-01	661



**Appendix VI**  
**Stratigraphic Column**



GROUP  
BARACHOIS

FORMATION

DESCRIPTION

Fluvial S.S. / Sltst, & minor Coal  
1600'-1900'

SEARSTON

Gn-gy, to rd, S.S., / rd, Sltst. 8200'

CODROY

WOODY CAPE

Bk, dk-gy, Sh, / Dol-lst, Mudst, Sltst, S.S.  
1600'-2300'

ROBINSON'S RV.

Rd-gy, S.S. & Sltst/Sh, & marine Lst.  
3900' 5500'

CODROY ROAD

Carbonates, / gy-rd, sil-clastics 475'-800'

SHIP COVE

Laminated lst, / sulphides 6'-82'  
Rd. braided S.S. / gy. cgl. 2500'-7400'

ANGUILLE

SPOUT FALLS

Fischells Cgl Mbr

Fischells Cgl rounded & sub-rounded  
pebbles & cobbles. Clast from erosion of  
platform carbonate rocks + quartz, jasper, red  
quartzite, cherty limestone + red shale. 20-200m

FRIARS COVE

Gy, fluvial-deltaic S.S. Sh. 1000'-1600'

SNAKE BIGHT

Bk Sh, Mudst, Turbidite, Delatic S.S.  
2600'-5900'

KENNEL BK

Rd. S.S. beds 3300'-10,500'

## **Appendix VII**

### **Diamond Drill Core Logs**

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 1

Date: FEB 21, 2001

Location (NTS): 12 B / 7

Hole No: Flat Bay 93 – 101 # 1

UTM Co-ord: N 53 55990, E 3 86625

Spud Date: June. 30, 2001

Elevation 50.0m (164.05')

Logged by: Roland Strickland

Dip at collar Vertical

Drilled by: East Coast Drilling

Total Depth: 500m (1640.5')

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds	Remarks
143m (469')				Shoe



143.0-153.0m (469.0'-502')				No core recovery
153.0-154.77m (502'-508')	Box 1& 2	<b>Claystone:</b> Predominately red, sticky, very soft, water soluble clay, frequent dark red to red brown to orange brown, interbedded with light green, silty claystone, occasional pebbles and silty intervals up to 0.10m wide, calcareous cemented, occasional varied colored.	Strongly hematitized, occasional calcite veinlets parallel to bedding. Veining with infilled calcite rhombs	Bedding 40°-50° from horizontal.
154.77-155.55m (509'-510')	2	<b>Claystone:</b> Red, sticky, very soft claystone, interbedded with red argillaceous pebbles.	Totally hematitized.	Bedding 30°-40° from horizontal.
155.55-157.92m (510'-518')	3	<b>Claystone:</b> Predominately red, sticky claystone very soft, water soluble, with alternating layers of light green, silty claystone, with frequent feldspar pebbles.	Strongly hematitized, occasional calcite veinlets parallel to bedding. Abundant calcareous cement.	

## AMERICAN RESERVE ENERGY CORPORATION

### FLAT BAY 93 – 101 #1

### DIAMOND DRILL CORE LOG

SHEET # 2

Date: FEB 21, 2001

Location (NTS): 12 B / 7

Hole No: Flat Bay 93 – 101 # 1

UTM Co-ord: N 53 55990, E 3 86625

Spud Date: June. 30, 2001

Elevation 50.0m (164.05')

Logged by: Roland Strickland

Dip at collar Vertical

Drilled by: East Coast Drilling

Total Depth: 500m (1640.5')

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds	Remarks
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157.92-158.42m (518'-520')	Box 4	<b>Claystone:</b> Predominately massive, red, sticky, very soft, water soluble claystone	Well developed slickensides, parallel to bedding @160.66m.	
158.42-158.92m (520'-521')	4	<b>Sandstone:</b> Red, orange yellow, light green, medium to coarse grained, moderately sorted, subrounded, predominately quartz, hard to friable, consolidated with calcareous cement, arkosic, occasionally conglomeratic with brecciated fragments of quartz and orange feldspar.	Strong calcareous cement. Totally hematitized.	Loss 2.24m of core because of the friability. Increased viscosity to prevent losses.
158.92-161.16m (521'-529')				Loss core.
161.16-161.84m (529'-531')	4	<b>Claystone:</b> Red , yellow -brown, rare dark gray, sticky, very soft, unconsolidated.	Strong calcareous cement. Totally hematitized.	
161.84-162.34m (531'-533')	4	<b>Gypsum:</b> White, massive to powdery gypsum, occasionally crystalline, very firm.		

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 3

Date: FEB 21, 2001

Location (NTS): 12 B / 7  
UTM Co-ord: N 53 55990, E 3 86625  
Elevation 50.0m (164.05')  
Dip at collar Vertical  
Total Depth: 500m (1640.5')

Hole No: Flat Bay 93 – 101 # 1  
Spud Date: June. 30, 2001  
Logged by: Roland Strickland  
Drilled by: East Coast Drilling  
Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds	Remarks
162.34-162.58m (533'-533.4')	4	<b>Anhydrite:</b> White, slightly blue -gray, massive, very firm to brittle, fibrous, occasionally coarse crystalline, glassy appearance, slightly mottled, minor red-gray gypsum.		

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 4

Date: May 29, 2001

Location (NTS): 12 B / 7

Hole No: **Flat Bay 93 – 101 # 1**

UTM Co-ord: N 53 55990, E 3 86625

Spud Date: June. 30, 2001

Elevation 50.0m (164.05')

Logged by: Roland Strickland

Dip at collar Vertical

Drilled by: East Coast Drilling

Total Depth: 500m (1640.5')

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds	Remarks
162.58-169.03m (533.4'-555')	5	<b>Anhydrite:</b>	At	
	6	White, slightly blue –gray, massive, very firm to brittle, fibrous, occasionally coarse crystalline, glassy appearance, slightly mottled, minor red-gray gypsum, occasional calcite crystals	164.59m(540') voids infilled with calcite crystals. Red hematite staining and calcareous cement throughout.	
		@ 166.8m(547') to 168.12m(552') brecciated anhydrite fault zone.	brecciated, infilled with dark grey mud + crystalline gypsum, strongly calcareous.	Hematitized with calcite veinlets. <b>Loss 1.38m(4.5')</b> <b>core @</b> <b>166.31m(546')</b>
		@ 168.12m(552') to 169.03m(555') <b>Anhydrite:</b> same as above, white, off white, glassy, crystalline.		

169.03-170.55m (555'-560')	7	<b>Mudstone:</b> red brown, with light green slightly calcareous, occasional white gypsum stringers		Bedding 40°-50° from horizontal.
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**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 5

Date: May 29, 2001

Location (NTS):	<u>12 B / 7</u>	Hole No:	<u>Flat Bay 93 – 101 # 1</u>
UTM Co-ord:	<u>N 53 55990, E 3 86625</u>	Spud Date:	<u>June. 30, 2001</u>
Elevation	<u>50.0m (164.05')</u>	Logged by:	<u>Roland Strickland</u>
Dip at collar	<u>Vertical</u>	Drilled by:	<u>East Coast Drilling</u>
Total Depth:	<u>500m (1640.5')</u>	Core Size:	<u>NQ</u>

Depth	Box	Lithology Description	Faults / Folds	Remarks
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170.55-184.64m (560'-606')	7	<b>Anhydrite:</b> White, slightly blue -gray, massive, very firm to brittle, fibrous, occasionally coarse crystalline, glassy appearance, slightly mottled, minor red-gray gypsum, occasional calcite crystals.	<b>Loss 0.46m(1.5')</b> <b>core @</b> <b>172.40m(566')</b>
	8	Occasional red stylolitic mud seams @	<b>Loss 4.0m(13.1')</b> <b>core @</b>
	9	178.25m(585')	<b>178.25m(585')</b>
	10	Dark grey shale lenses @ 174.09m(571') 0.15m(0.07') thick.	
	11	White glassy crystalline calcite @ 180.13m(591') 3mm thick.	
	12	Red brown mud seam @ 181.59m(596') 4cm thick.	Bedding 30°-40° from horizontal.
184.64-205.25m (606'-673')	12	Dark grey shale lense @ 181.86m(597') 3mm thick.	
	12	<b>Halite:</b> clear, transparent - translucent, glassy, hard, crystalline, white, occasionally granular. Abundant white crystalline calcite with minor white-tan gypsum and blue white anhydrite. Drilling mud and calcite grains from core barrel @ 190m(623') had trace slow yellow cut florescence. Only retrieved 1.3m(4.26') of core. Assumed Halite core washed away.	Loss circulation @ 188m(605') Gas units from 192m(630')- 196m(643') increased from 36 to 170units. <b>Loss</b> <b>19.31m(63.0')</b> <b>core @ 184.64m-</b> <b>205.25m(606'-</b> <b>673')</b> Drilling ahead with fresh water.

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 - 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 6

Date: May 18, 2001

Location (NTS): 12 B / 7  
UTM Co-ord: N 53 55990, E 3 86625  
Elevation 50.0m (164.05')  
Dip at collar Vertical  
Total Depth: 500m (1640.5')

Hole No: Flat Bay 93 - 101 # 1  
Spud Date: June. 30, 2001  
Logged by: Roland Strickland  
Drilled by: East Coast Drilling  
Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds	Remarks
205.25-217.25m (673'-713')	12	<p>No core recovery after 205.25m(673')</p> <p><b>Calcite:</b> loose grains, predominately coarse granular, white, tan, hard, occasionally crystalline aggregates, trace nodular, trace vitreous luster.</p> <p>From 206.13-214.25m(676'-703') tan, brown, off white, grains of calcite, occasional rhombs.</p>		<p>Loss core 205.25-220m(673'-722').</p> <p>Drilling ahead with fresh water.</p> <p>Halite core assumed washed away.</p>

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 7

Date: July 18, 2001

Location (NTS): 12 B / 7

Hole No: Flat Bay 93 – 101 # 1

UTM Co-ord: N 53 55990, E 3 86625

Spud Date: June. 30, 2001

Elevation 50.0m (164.05')

Logged by: Roland Strickland

Dip at collar Vertical

Drilled by: Petro Drilling

Total Depth: 500m (1640.5')

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds Alterations	Remarks
217.25-221.95m (713'-728')	14	No core recovery.		
221.95-223.3m (728'-733')	14	<b>Halite:</b> clear to translucent, glassy, hard, crystalline, white, occasionally granular, calcareous cement, frequent blebs of gypsum.		
223.3-226m (733'-741')	15	No core recovery.		
226m-239.9m (741'-787')	15 16 17 18 19 20	<b>Halite:</b> clear to translucent, glassy, hard, crystalline, white, occasionally granular, calcareous cement, frequent blebs of gypsum. From 235m-235.35m dark black staining from disseminated fine grained pyrite. From 235.76m-236.15m black staining from disseminated fine grained pyrite. From 239.21m-239.48m black staining from disseminated fine grained pyrite. Frequent blebs of gypsum with calcareous cement throughout.		100% core recovery: excellent quality



**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 8

Date: July 19, 2001

Location (NTS):	<u>12 B / 7</u>	Hole No:	<u>Flat Bay 93 – 101 # 1</u>
UTM Co-ord:	<u>N 53 55990, E 3 86625</u>	Spud Date:	<u>June. 30, 2001</u>
Elevation	<u>50.0m (164.05')</u>	Logged by:	<u>Roland Strickland</u>
Dip at collar	<u>Vertical</u>	Drilled by:	<u>Petro Drilling</u>
Total Depth:	<u>500m (1640.5')</u>	Core Size:	<u>NQ</u>

Depth	Box	Lithology Description	Faults / Folds Alterations	Remarks
239.9m-242.9m (787'-797')	21	<b>Halite:</b> clear to translucent, glassy, hard, crystalline, white, occasionally granular, calcareous cement, frequent blebs of gypsum. From 240.59m-241.00m black staining from disseminated fine grained pyrite.		100% core recovery: excellent quality
	22			
242.9m-243.4m (797'-799')	22	<b>Claystone:</b> Predominately red, sticky claystone soft, with occasional feldspar pebbles, highly hematitized with halite lenses throughout.		100% core recovery: excellent quality
243.4m-254.9m (799'-836')	23	<b>Halite:</b> clear to translucent, glassy, hard, crystalline, frequently massive, white, occasionally granular, minor calcareous cement, frequent blebs of anhydrite		
	24	From 246.69m-247.43m black staining from disseminated fine grained pyrite		
	25	and frequent red iron oxide staining.		
	26			
254.9m-255.5m (836'-838')	27	<b>Anhydrite:</b> white, slightly blue-gray, massive, very firm to brittle, fibrous, occasionally coarse crystalline, glassy appearance, slightly mottled, minor red-gray gypsum, occasional calcite crystals.		
	27			

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 9

Date: July 19-20, 2001

Location (NTS): 12 B / 7

Hole No: Flat Bay 93 – 101 # 1

UTM Co-ord: N 53 55990, E 3 86625

Spud Date: June. 30, 2001

Elevation 50.0m (164.05')

Logged by: Roland Strickland

Dip at collar Vertical

Drilled by: Petro Drilling

Total Depth: 500m (1640.5')

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds Alterations	Remarks
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255.5m-272.5m (838'-894')	28	<b>Halite:</b> clear to translucent, glassy, hard, crystalline, frequently massive, white, occasionally granular, minor calcareous cement, frequent blebs of anhydrite From 268.00m-268.89m black staining from disseminated fine grained pyrite and frequent red iron oxide staining. Grey stringers of shale from 256.18m – 256.52m.	100% core recovery: excellent quality
	29		
	30		
	31		
	32		
	33		
272.5m-275.1m (894'-903')	34	<b>Claystone:</b> Predominately red-brown, grey-green, soft-medium hard, interbedded halite lenses up to 4 cm thick, frequently hematitized, strong calcareous cement	Bedding 40° from horizontal.
	35		
	36		
275.1m-328.9m (903'-1079')	37	<b>Halite:</b> clear to translucent, glassy, hard, coarse crystalline, predominately massive, white, occasionally granular, minor calcareous cement, occasional blebs of anhydrite Red, grey-green claystone – shale @ 301.37m to 301.64m. Minor red-brown hematitization.	100% core recovery: excellent quality
	38		
	39		
	40		
	41		
	42		
	43		
	44		
	45		
	to		
	60		

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 10

Date: July 21-22, 2001

Location (NTS): 12 B / 7

UTM Co-ord: N 53 55990, E 3 86625

Elevation 50.0m (164.05')

Dip at collar Vertical

Total Depth: 500m (1640.5')

Hole No: Flat Bay 93 – 101 # 1

Start Date: July 15, 2001

Logged by: Roland Strickland

Drilled by: Petro Drilling

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds Alterations	Remarks
328.9m-409.5m (1079'-1344')	61 to 96	<b>Halite:</b> clear to translucent, glassy, hard, coarse crystalline, predominately massive, occasional white, granular, minor calcareous cement, occasional blebs of anhydrite Broken core at 355.58-356.97m, 374.55-376.30m, 391.00-391.60m		100% core recovery: excellent quality
409.5m-413.5m (1344'-1357')	96 97 98	<b>Anhydrite:</b> white, slightly blue-gray, massive, very firm to brittle, fibrous, occasionally coarse crystalline, glassy appearance, slightly mottled, occasional calcite crystals.	Small scale plastic deformation.	Bedding 10° -15° from horizontal.
413.5m-438.9m (1357'-1440')	98 to 109	<b>Halite:</b> clear to translucent, glassy, hard, coarse crystalline, predominately massive, occasional white, granular, minor calcareous cement, occasional blebs of anhydrite		100% core recovery: excellent quality

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 11

Date: July 23, 2001

Location (NTS): 12 B / 7

Hole No: Flat Bay 93 – 101 # 1

UTM Co-ord: N 53 55990, E 3 86625

Start Date: July 15, 2001

Elevation 50.0m (164.05')

Logged by: Roland Strickland

Dip at collar Vertical

Drilled by: Petro Drilling

Total Depth: 500m (1640.5')

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds Alterations	Remarks
413.5m-440.4m (1357'-1445')	110	<b>Halite:</b> clear to translucent, glassy, hard, coarse crystalline, predominately massive, occasional white, granular, minor calcareous cement, occasional blebs of anhydrite		100% core recovery: excellent quality
440.4m-456.4m (1445'-1497')	110 to 117	<b>Anhydrite:</b> white, blue-gray, massive, very firm to brittle, fibrous, occasionally coarse crystalline, glassy appearance, slightly mottled, occasional calcite crystals. Two (2) cm grey shale lense @ 442m Vertical salt lense 10mm wide 451.1-451.6m 45° salt lense 2 cm wide @ 454.6m 45° salt lense 2 cm wide 455.4-455.6m		Bedding 30° –46° from horizontal.
456.4m-478.0m (1497'-1568')	117 to 127	<b>Halite:</b> clear to translucent, glassy, hard, coarse crystalline, predominately massive, occasional white, granular, minor calcareous cement, frequent white blebs & stringers of anhydrite. At 456.4-465.72m massive coarse crystalline salt.		100% core recovery: excellent quality
478.0m-503.9m (1568'-1653')	127 to 138	<b>Anhydrite:</b> blue-gray, white, massive, hard, very firm to brittle, fibrous, occasionally coarse crystalline, glassy appearance, slightly mottled, occasional calcite crystals.		Bedding 10° –30° from horizontal. Very high grade. Possibly lower portion of the evaporite basin

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 12

Date: July 24-25, 2001

Location (NTS): 12 B / 7

Hole No: Flat Bay 93 – 101 # 1

UTM Co-ord: N 53 55990, E 3 86625

Start Date: July. 15, 2001

Elevation 50.0m (164.05')

Logged by: Roland Strickland

Dip at collar Vertical

Drilled by: Petro Drilling

Total Depth: 500m (1640.5')

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds Alterations	Remarks
503.9m-582.5m (1653'-1911')	139  to  165  to  173	<b>Anhydrite:</b> blue-gray, white, massive, hard, very firm to brittle, fibrous, frequently coarse crystalline, glassy appearance, slightly mottled. Poor porosity. Saturated with light brown Oil staining, bright yellow florescence throughout, frequent streaming blue-yellow cut florescence. Occasional light brown oil staining from 557.9-582.4m		Bedding 0° -10° from horizontal. Very high grade. Possibly lower portion of the evaporite basin       Bedding 20° -30° from horizontal.
582.5m-606.6m (1911'-1990')	173  to  184	<b>Halite:</b> clear to translucent, glassy, hard, coarse crystalline, predominately massive, occasional white, granular, minor calcareous cement, frequent white blebs & stringers of anhydrite. Frequent stylotitic structures filled with HYDC, giving yellow florescence. Occasional chicken -wire like texture filled with calcareous grey shale Continuous parallel veinlets of anhydrite + frequent blebs & layers 0.3-0.9mm wide. Dark brown impurities throughout, possibly hydc staining. From 592.00-592.08 white anhydrite From 593.62-593.88 increase in anhydrite lenses. Abundant yellow florescence throughout.		Bedding 20° -30° from horizontal.

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 13

Date: July 25-26, 2001

Location (NTS): <u>12 B / 7</u>	Hole No: <u><b>Flat Bay 93 – 101 # 1</b></u>
UTM Co-ord: <u>N 53 55990, E 3 86625</u>	Start Date: <u>July. 15, 2001</u>
Elevation <u>50.0m (164.05')</u>	Logged by: <u>Roland Strickland</u>
Dip at collar <u>Vertical</u>	Drilled by: <u>Petro Drilling</u>
Total Depth: <u>500m (1640.5')</u>	Core Size: <u>NQ</u>

Depth	Box	Lithology Description	Faults / Folds Alterations	Remarks
606.6m-643.0m (1911'-2110')	184	<b>Anhydrite:</b> white, blue-gray, massive, hard, very firm to brittle, fibrous, frequently coarse crystalline, glassy appearance, slightly mottled. Frequent veinlets of grey calcareous shale. Shale lens 2.5cm @ 606.7m. Occasional light brown Oil staining, bright yellow florescence throughout. Shale (dark grey) laminae 8mm wide @ 623.86m, from 632.2-636.3m. From 639.4m-640.0m up to 10mm wide dark grey calcareous Shale.		Bedding 20° -30° from horizontal.  Bedding 30° from horizontal.  Bedding 30° -40° from horizontal.

**AMERICAN RESERVE ENERGY CORPORATION**  
**FLAT BAY 93 – 101 #1**  
**DIAMOND DRILL CORE LOG**

SHEET # 13

Date: July 25-26, 2001

Location (NTS): 12 B / 7

Hole No: Flat Bay 93 – 101 # 1

UTM Co-ord: N 53 55990, E 3 86625

Start Date: July. 15, 2001

Elevation 50.0m (164.05')

Logged by: Roland Strickland

Dip at collar Vertical

Drilled by: Petro Drilling

Total Depth: 500m (1640.5')

Core Size: NQ

Depth	Box	Lithology Description	Faults / Folds Alterations	Remarks
606.6m-658.7m (1911'-2161')	184  to  207	<b>Anhydrite:</b> white, blue-gray, massive, hard, very firm to brittle, fibrous, frequently coarse crystalline, glassy appearance, slightly mottled. Frequent veinlets of grey calcareous shale. Shale lens 2.5cm @ 606.7m. <del>Occasional light brown Oil staining, bright yellow florescence throughout.</del> Shale (dark grey) laminae 8mm wide @ 623.86m, from 632.2-636.3m. From 639.4m-640.0m up to 10mm wide dark grey calcareous Shale. From 643.0-658.7m increase in overall calcareous shaly limestone. Shale lenses 10-25mm wide from 645.5m – 647.5m		Bedding 20° –30° from horizontal.  Bedding 30° from horizontal.  Bedding 30° –40° from horizontal.  Bedding 20° –30° from horizontal.
658.7m-660.94 (2161'-2169')	207 to 209	<b>Limestone: (Ship Cove Formation)</b> <b>Limestone:</b> dark grey to grey, micro-crystalline to crystalline, hard, laminated, slightly brecciated, algae-stromatolitic structure, occasional moldic porosity, trace bright yellow florescence, with occasional streaming yellow cut-florescence. <b>Anhydrite</b> is interbedded with limestone mainly in a sharp conformable contact, mainly a chicken – wire texture of shaly – limestone. <b>Strong yellow florescence throughout.</b> Shaly-limestone lenses up to 4 cm wide from 658.77m to 660.94m.		Bedding 20° –30° from horizontal.

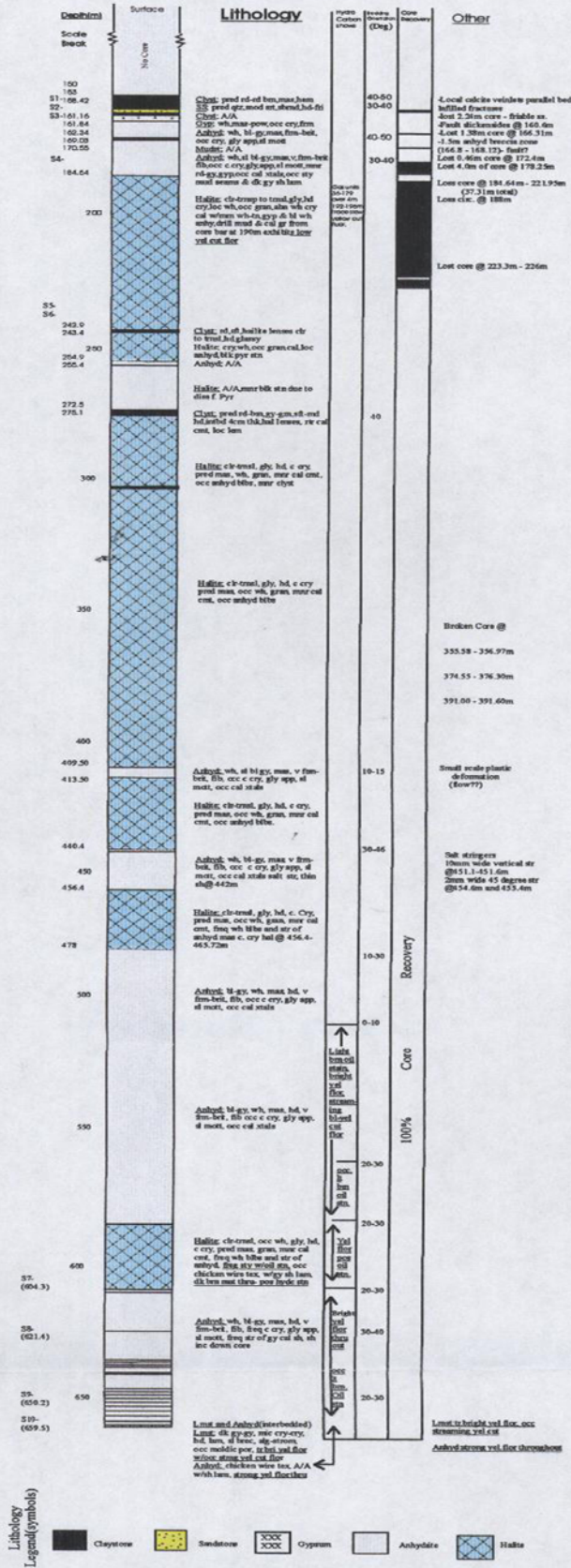


End Of Data Submitted By  
American Reserve Energy (Canada) Corporation.

## **Appendix VIII**

### **Lithology**

# American Reserve Flat Bay 93 - 101 #1

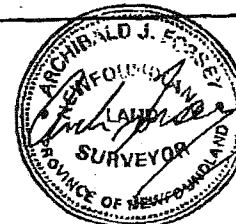


**Appendix IX**  
**Final Legal Survey**



### LEGEND

<p><b>YATES AND WOODS LTD.</b>  NEWFOUNDLAND LAND SURVEYORS  CO-OP BLDG. , 5 PARK STREET P.O.BOX 434  CORNER BROOK, MFLD. A2H 6E3 TEL. 639-9177</p>		
<p><b>S I T E P L A N F O R</b>  <b>AMERICAN RESERVE ENERGY CANADA</b>  <b>ROUTE 403, FLAT BAY, NFLD .</b></p>		
SCALE: 1 : 1000	DWG. NO. 2K0	DRAWN BY E. CARAVAN



DATE- JUNE 19, 2000.

## **Appendix X**

### **Well Termination Record**

WELL TERMINATION  
RECORD

## WELL DATA

Well Name: Flat Bay 93-101 #1	CO-ORDINATES	
Operator: American Reserve Energy (Canada) Corporation	Long: 58 31' 52.8"W	UTM (NAD 27)
Drilling Rig: JKS-BBS-56	Lat: 48 23' 6.5"N	Northings: 5359.990 Eastings: 386.625
Rig Type: Slim Hole Continuous Core	ELEVATION	DEPTH
Drilling Contractor: Petro Drilling Company Limited	RT/KB/RF: 55.4 m G.L.: 50.0 m	TD: 671 m TVD: 671 m
FOR M & E USE ONLY		
Spud Date: July 01, 2000 TD Date: July 29, 2001 Rig Release Date: Oct 25/01 Well Termination Date: Oct 25/01		
For the purpose of interpreting subsection 154(5) of the Petroleum Drilling Regulations, the rig release date is deemed to be: October 25, 2001		

## CASING AND CEMENTING PROGRAM

O.D. (mm)	WEIGHT (kg/m)	GRADE	SETTING DEPTH (m)	CEMENTING DETAILS
168		A-589	50 m	Ready mix cement
114	14.4	K-55	143 m	4.5 tonnes class "A" + 2% CaCl <sub>2</sub>

## PLUGGING PROGRAM

Approval of the following program was obtained by (person) Mr. Frank Nolan from  
(person) Mr. Wes Foote of the Department of Mines & Energy  
by means of correspondence/telephone dated 12 October 2001

Type of Plug	Interval	Felt/Pressure Tested	Cement and Additives
Cement	128-175 m	Felt @ 127 m	0.4 m <sup>3</sup> of Class "A" + 3% CaCl <sub>2</sub>
Cement	10-20 m	N/A	0.085 m <sup>3</sup> of Class "A" neat

Lost Circulation/Overpressure Zones: 188 m - 220 mkB L.C.

Downhole Completion/Suspension Equipment: (1) NO Fish: recoverable core barrel + 162 joints + twisted off joint  
(2) NO Fish: core barrel + 1 joint

(Describe and Attach Sketch) See attached sketch. Casing cut at ~ 1 m from surface at bottom of cellar. Steel plate welded on casing stub. Installed well marker as per PDR Section 118.

## DECLARATION

The undersigned operator's Representative hereby declares that on the basis of personal knowledge of operations undertaken at the above named well, the above information is true, accurate and complete.

Signed Barry Matthews

Operator's Representative

Name Barry Matthews

Title: Operations Mgr.

Date: Oct. 26/01

Acknowledged by

Director

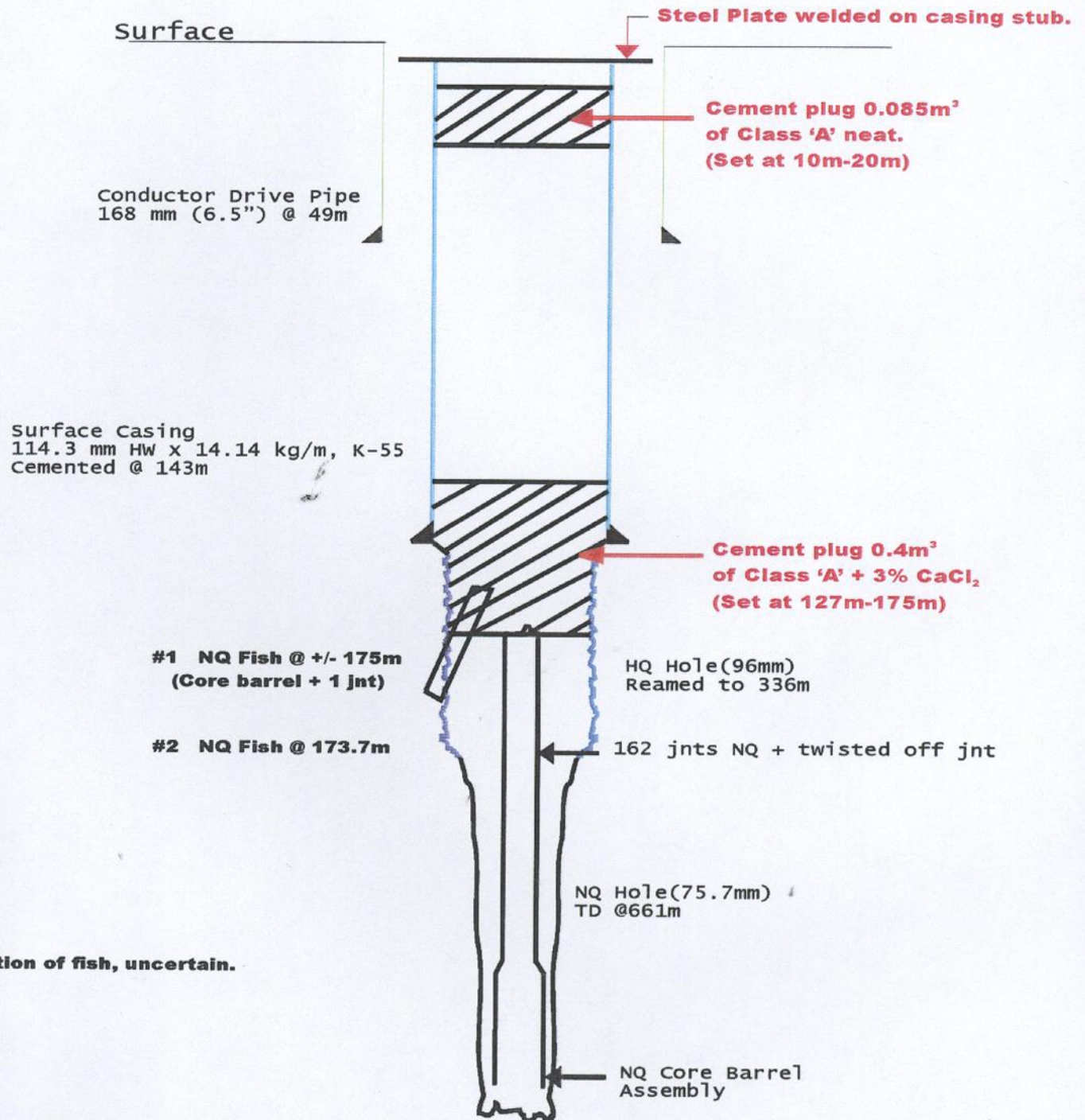
ACKNOWLEDGEMENT

Date: Nov 20/01



# American Reserve Energy

## Flat Bay 93-101 #1



**Note:**  
Orientation of fish, uncertain.