2000OA231-02

RAPPORT DE FORAGE - Junex, Bécancour No. 1

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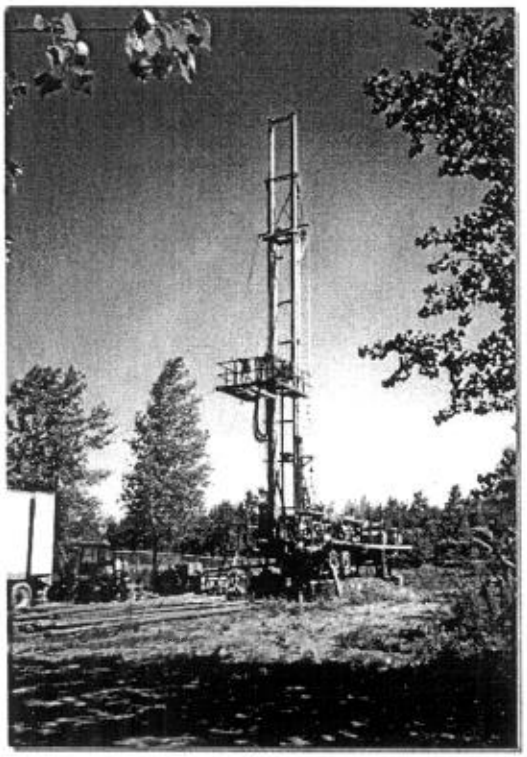
Énergie et Ressources naturelles
Québec

JUNEX inc.

JUNEX Bécancour no. 1

RAPPORT DE FORAGE



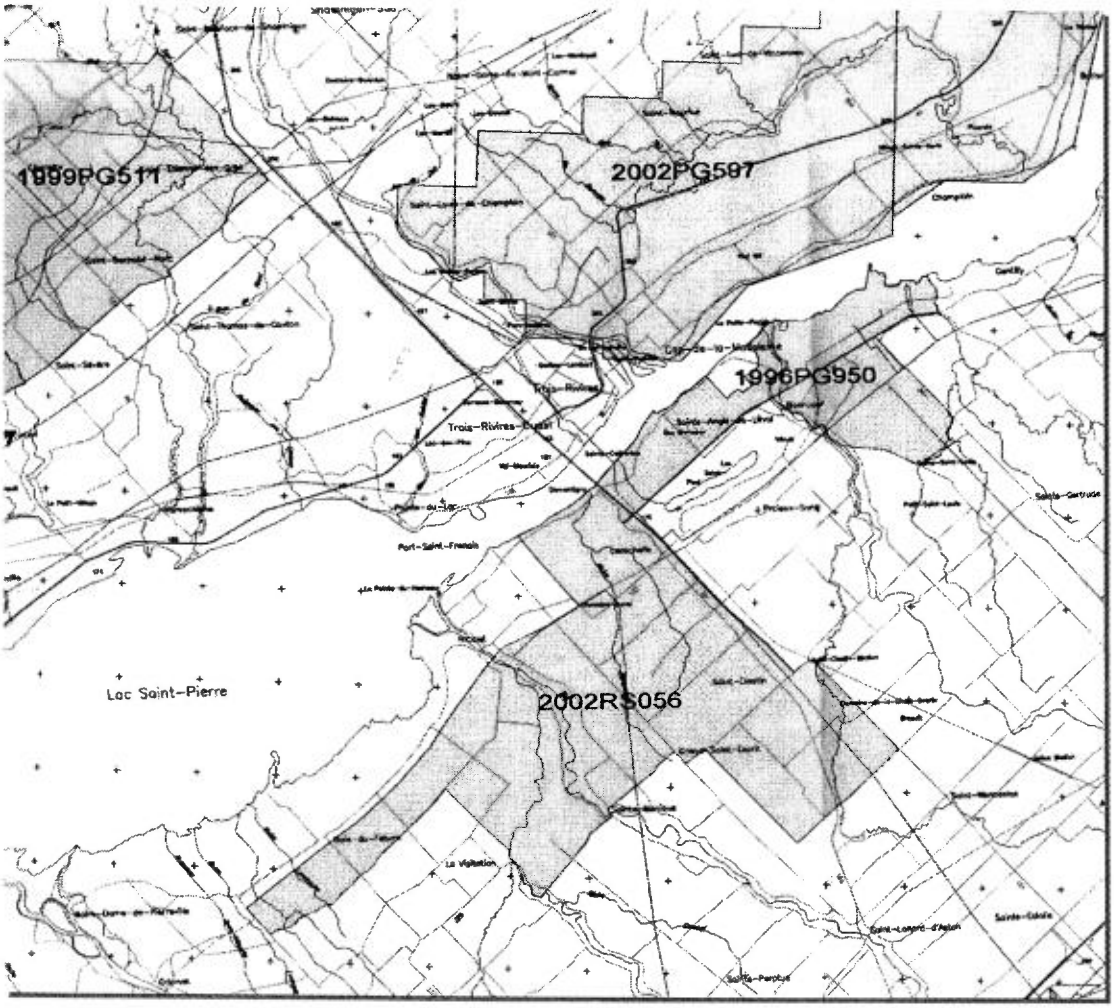
Junex inc.

Date : Janvier 2002

2000OA231-02

JUNEX inc.
3075, Quatre-Bourgeois, bur. 103, Québec, G1W 4Y5
tél : 418-654-9661 web : www.junex.ca

Localisation du permis 1996PG950



En jaune, les permis d'exploration de *JUNEX inc.*

Table des matières

Historique et nature du projet

Le rapport qui suit présente une mise à jour des travaux de forage effectués sur le puits JUNEX Bécancour no. 1. Ce puits est situé dans le parc industriel de Bécancour sur la rue Raoul-Duchesne et les travaux de forage ont débuté en novembre 2000. Un premier rapport sur l'avancement des travaux a été remis par JUNEX en août 2001. Les travaux sont actuellement suspendus suite à un arrêt temporaire. Cet arrêt temporaire a été engendré par l'effondrement de la partie inférieure du Groupe de Lorraine ayant pour effet de bloquer l'accès au fond du puits. Le trou a été nettoyé et un coffrage a été porté jusqu'au niveau des Calcaires de Trenton. La zone d'effondrement est la même que celle rencontrée dans le puits Intermont Bécancour no. 2 et elle est reliée à une zone de faille de chevauchement.

Le puits JUNEX Bécancour no. 1 est un puits devié vers le sud-est avec un angle de déviation finale de 60 degrés. Actuellement, le forage est arrêté au *kick off point* à une profondeur de 850 mètres. Les cibles du forage sont les grainstones et les dolomies fracturés des formations de Deschambault et du contact Beauharnois-Theresa. Ces horizons ont révélé des porosités et des perméabilités intéressantes dans les forages antérieurs. Des essais aux tiges dans puits SOQUIP Petrofina Bécancour no. 1 et 2 ont révélés d'excellentes perméabilités pour ces zones. JUNEX considère que la proximité de ces cibles avec la *zone de faille normale de Bécancour* permettra de rencontrer des horizons très fracturés et plus perméables.

JUNEX entend poursuivre le forage du puits jusqu'à l'atteinte de l'objectif avant l'hiver 2002.

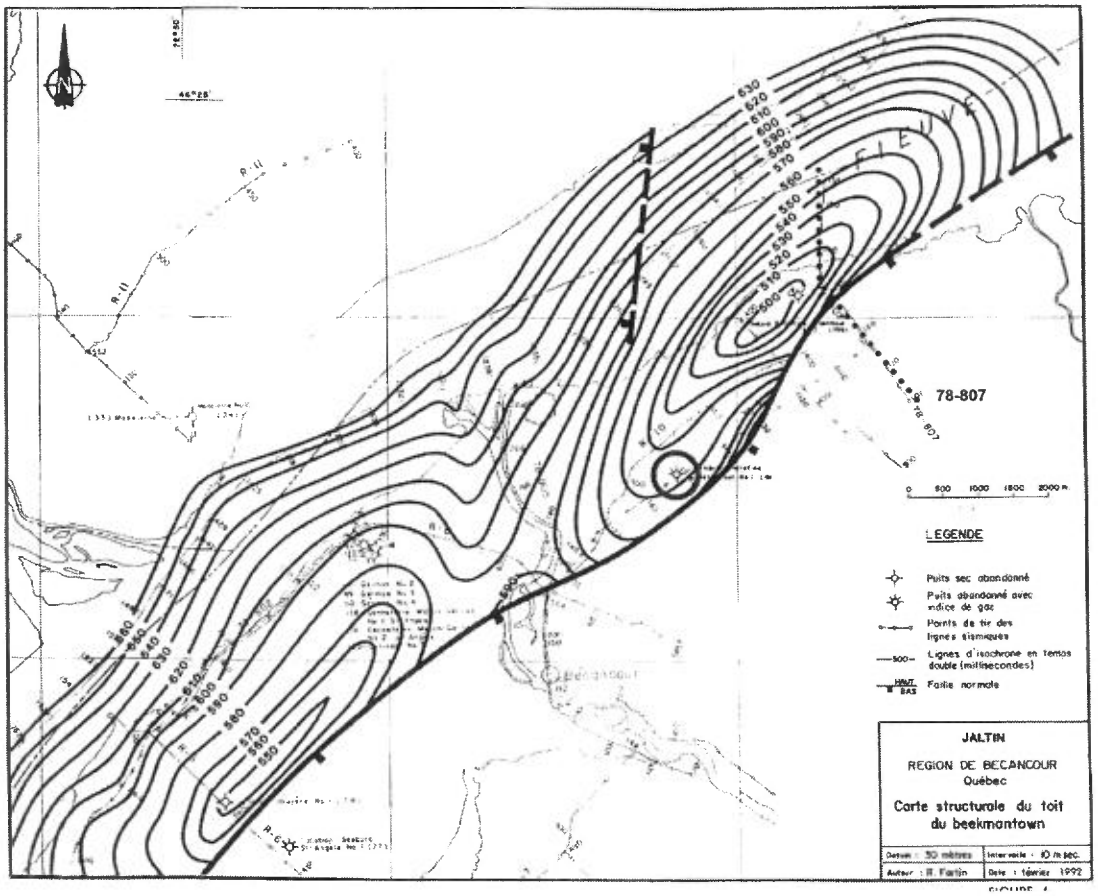
Résumé

- En novembre 2000, JUNEX inc a débuté le forage de JUNEX Bécancour no. 1. Le coffrage de surface a été installé.
- En juin 2001, JUNEX continue le forage du puits et atteint la profondeur de 850 mètres. Le kick-off point est atteint.
- Une série de test de positionnement du trou est effectuée à l'aide du ReflexIT, une première canadienne, les résultats sont concluant.
- En juillet 2002, une partie des murs du trou s'effondre forçant JUNEX à coffrer les 830 premiers mètres du forage.

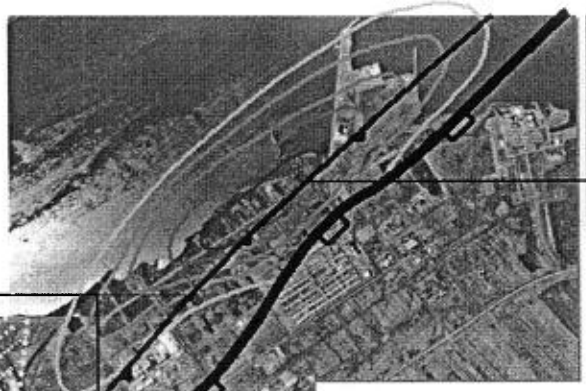
Informations générales

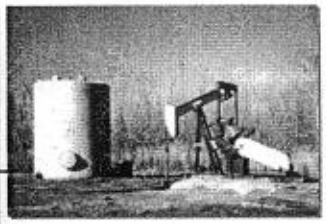
Nom du puits	:	JUNEX Bécancour no.1
Foreuse	:	Barber
Opérateur	:	JUNEX inc. 3075, Quatre-Bourgeois Québec, G1W 4Y5
Contracteur	:	Foragaz inc. 1205, Impériale Québec, G3K 1Y7
Coordonnées	:	UTMy 5 137 680 mN UTMx 699 172 mE Zone 18
Élévation	:	Niveau du sol : 7,52 m Table de rotation : 9,5 m
Permis	:	1996PG950
Profondeur totale	:	1150 mkb (prévision)
Début des travaux	:	25 novembre 2000
Fin des travaux	:	1er octobre 2002 (prévision)
Toit de la fenêtre	:	870 mkb (prévision)
Statut	:	Puits d'exploration en arrêt temporaire

Plan de localisation



SOQUIP Bécancour no. 1

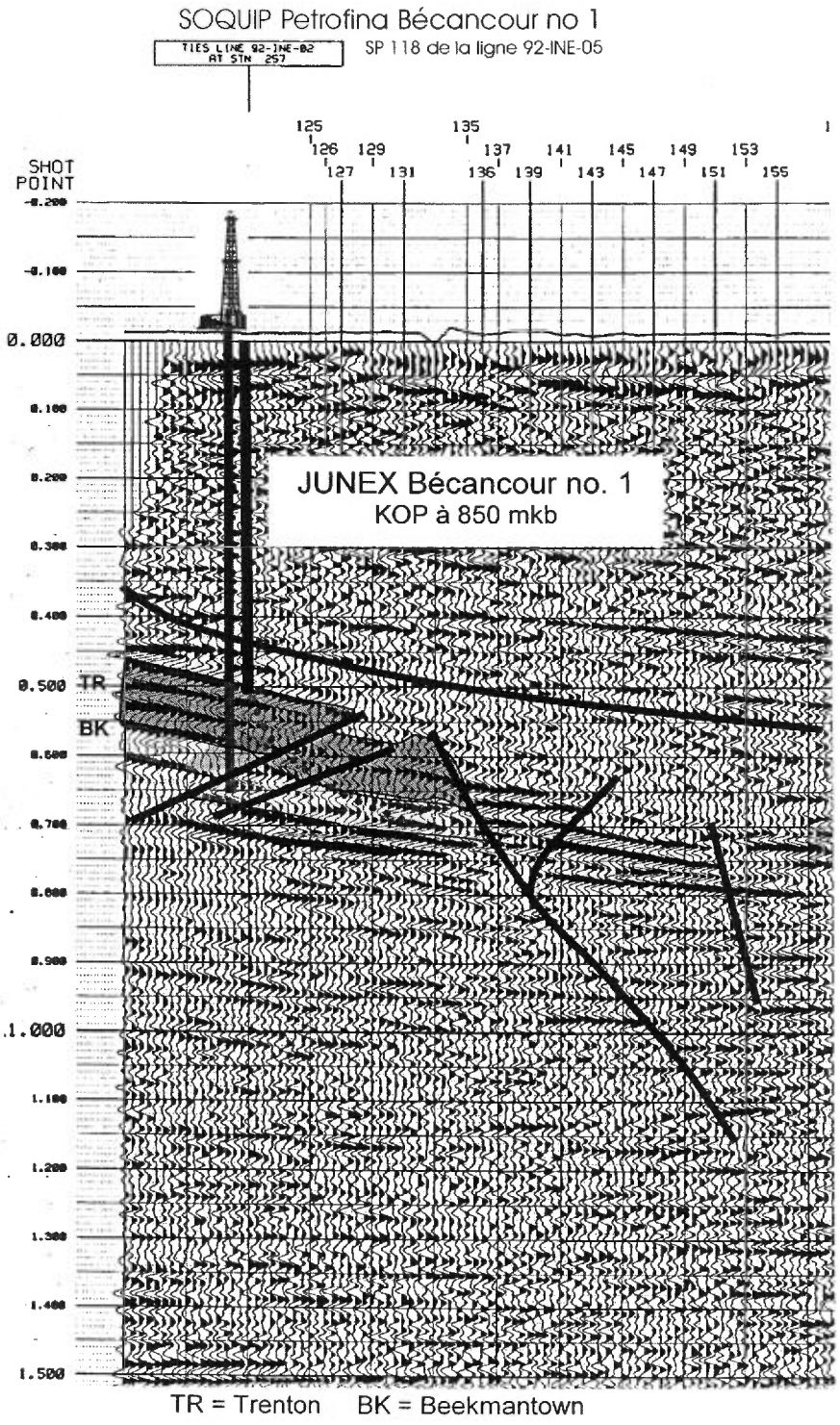




Site JUNEX (S) no. 2
Extraction de saumure

Site JUNEX Bécancour no. 1 et
Intermont Bécancour no.1 et no.2
Présence de gaz et de condensat

Profil sismique

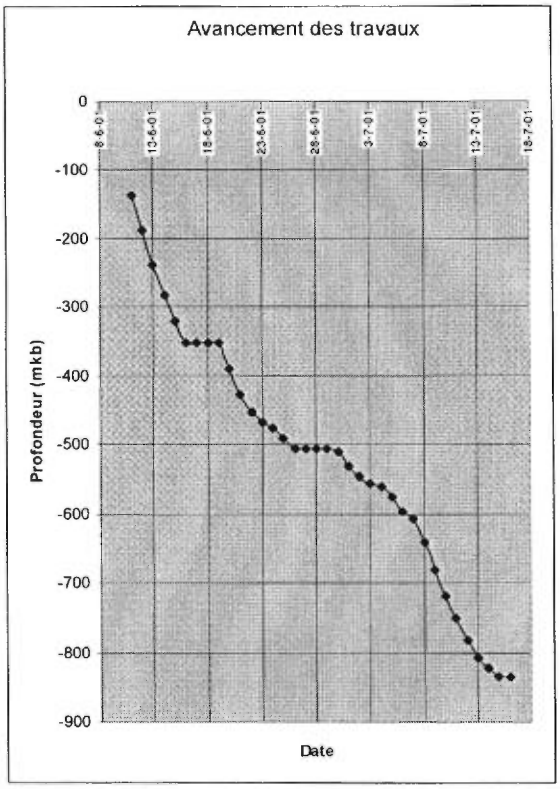


TR = Trenton BK = Beekmantown

Ingénierie

Description de l'état du puits

Au moment d'écrire ce rapport, la puits JUNEX Bécancour no. 1 est en arrêt temporaire. La profondeur du puits est de 858 mkb. Le tableau qui suit présente le taux d'avancement du forage.



Relevé directionnel

Un relevé directionnel a été effectué à l'aide d'un système ReflexIT (annexe 2).

Test d'évaluation du puits

Aucun test d'évaluation du puits n'a été effectué

Diagraphies

Aucune diagraphie n'a été prise.

Échantillonnage

Les seuls échantillons recueillis lors du forage sont des retailles et elles sont décrites à l'annexe 3.

Liste des trépans

Pour le forage des 858 premiers mètres 4 trépans ont été utilisés

	Trépan	Profondeur	Dimension
1	M44NG	130m – 351m	215,9 mm
2	M44NF	351m – 556m	215,9 mm
3	S-84F	556m – 608m	215,9 mm
4	SDGH	608m – 858m	215,9 mm
5	Mud Motor		

Ciment

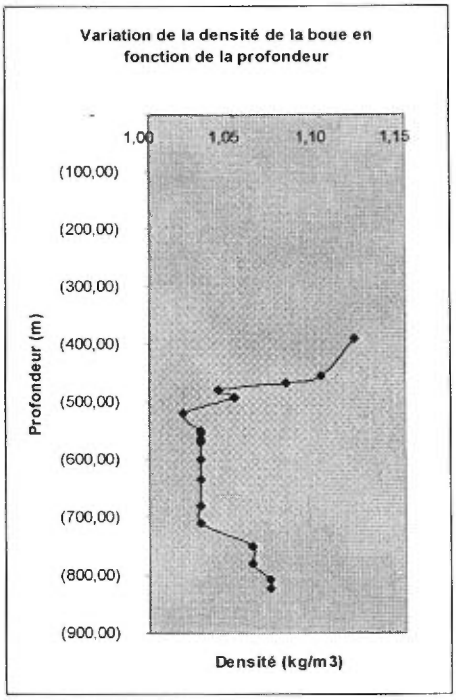
Le ciment utilisé pour le coffrage est de type Portland de classe G.

Lors des travaux de coffrage du puits, en août 2001, quatre-vingt (80) sacs de bentonite ont été utilisés pour solidifier les parois du trou. Chaque sac pesait 100 lbs. De plus, 25 lbs de Costic ont également été utilisées.

Boues utilisées

La boue utilisée pour cette première partie du forage est de l'eau. Le tableau suivant donne les variations de densité de la boue.

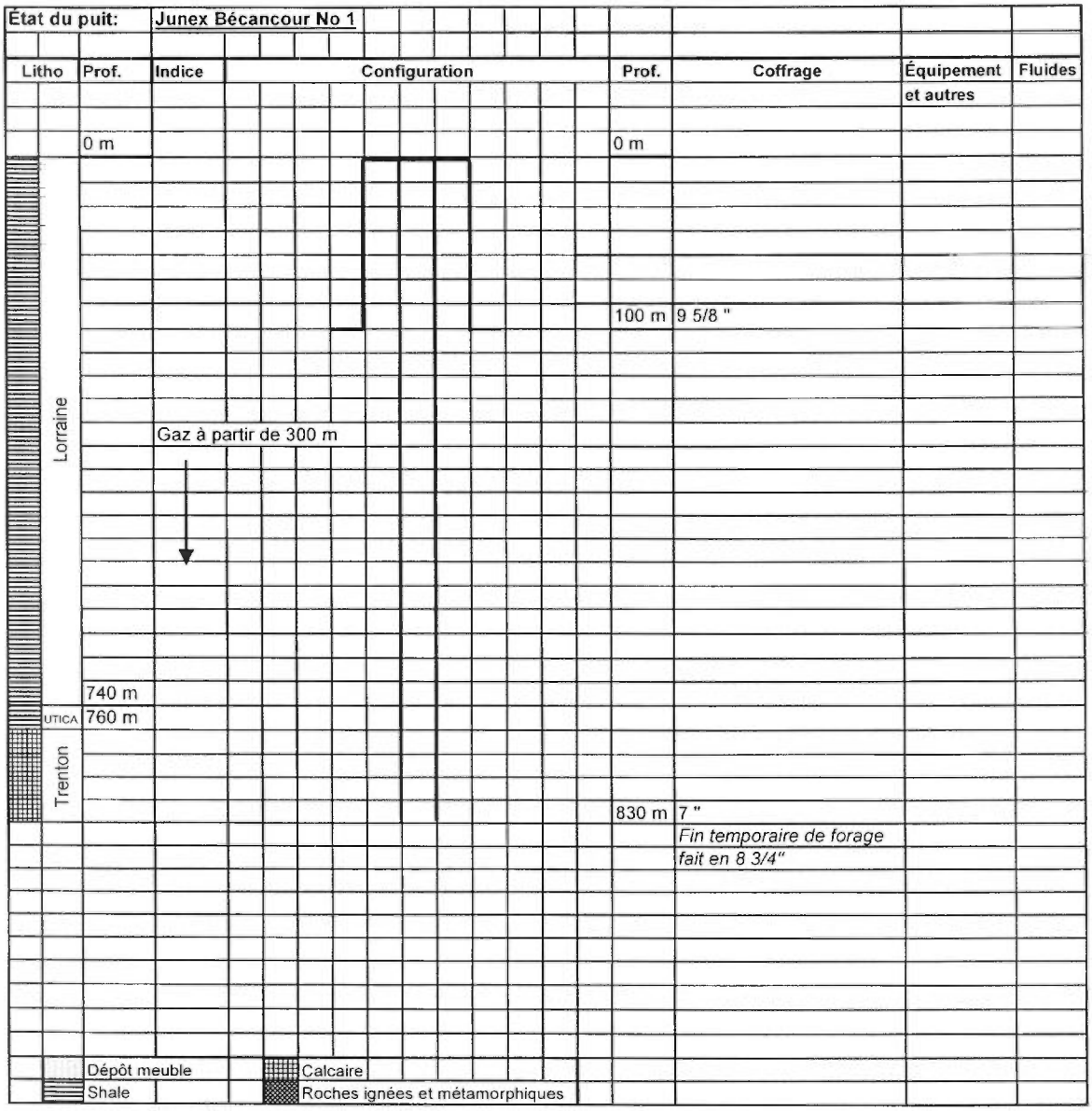
Profondeur (m)	Densité (kg/m^3)
389	1,12
455	1,10
467	1,08
480	1,04
492	1,05
520	1,02
550	1,03
556	1,03
565	1,03
570	1,03
600	1,03
636	1,03
681	1,03
710	1,03
750	1,06
780	1,06
807	1,07
822	1,07



Procédure suivie pour l'arrêt du forage

La tête de puits a été enlevé et un plaque de métal de ½ pouce (12,5 mm) a été boulonnée sur la bride d'accouplement. Le puits est suspendu de façon temporaire.

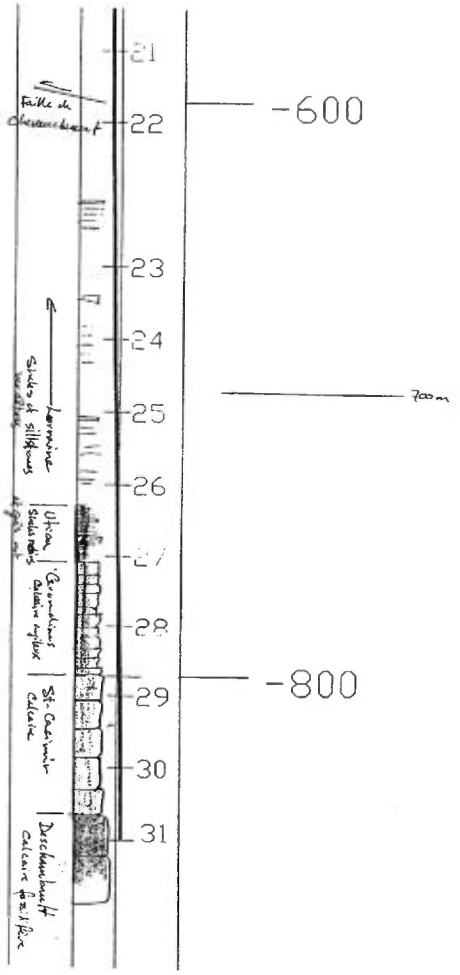
Design actuel du puits JUNEX Bécancour no. 1



Géologie du puits JUNEX Bécancour no. 1

Formation	Sommet (mkb)
Lorraine	+2
Utica	738
Neuville Mb Grondines	758
Neuville Mb St-Casimir	800
Deschambault	845

Colonne stratigraphique du forage



Annexe 1 :
Rapports journaliers des travaux

CAD

Foragaz Inc.

Client: Junex Inc.

Date: 2000/12/19

Projet: **Travaux au puits Junex Bécancour No 1 pendant période du 31 octobre 2000 au 13 décembre 2000.**

Facture No 227 **TPS: R121192546**
TVQ: 1003638461

ITEM 1 PRÉPARATION DU SITE DE FORAGE

Tracteur-Débrousailleur avec opérateur
12 hres

Construction d'une rampe d'accès
avec blocs de béton

ITEM 2 MOBILISATION-DÉMOBILISATION

Montant forfaitaire

ITEM 3 FOREUSE EN OPÉRATION

Date	Description des travaux	Heures Foreuse
25 nov 00	Installation de la foreuse	8
27 nov 00	Terminé l'installation de la foreuse. Début du forage en 8 1/2". Foré jusqu'à 20 m.	9
28 nov 00	Sorti l'assemblage de forage du trou; afin d'augmenter la stabilisation.	9

FORAGAZ INC.
1205, Impériale, Val- Bélair, Québec, Canada, C.P. 8091, G3K 1Y7, tél.:(418)845-0938

29 nov 00	Terminé la stabilisation Forage jusqu'à 55 m.	9
30 nov 00	Forage jusqu'à 110 m.en 8 1/2". Sorti le train de tiges et re-entré avecun trépan de 12 1/4". Alésage jusqu,à 20 m.	13
01 déc 00	Alésage en 12 1/4" jusqu'à 78 m.	11,5
03 déc 00	Alésage jusqu'à 103 m.	12
04 déc 00	Alésage jusqu,à 110 m. Circulation et sortie du trou. Mise en place du coffrage 9 5/8" (105 m)	12
05 déc 00	Préparatifs pour cimentation Cimentation et nettoyage.	10
06 déc 00	Mise en place du "casing bowl" de 9 5/8"	9
07 déc 00	Mise en place des BOP Commencé à entrer dans le trou avec l'assemblage de fond (BHA).	7
08 déc 00	Terminé la mise en place de la goulotte d'écoulement Test BOP.Forage du bouchon de ciment. Forage jusqu'à 130 m.	12,5
09 déc 00	Forage jusqu'à 150 m. Bris de la foreuse. Réparations pour le reste de la journée	3,5
10 déc 00	Décision d'arrêter le forage (BOP inopérant dû au froid) Démontage de la foreuse et des équipements.Foreuse libérée	10,5

ITEM 4 MATÉRIAUX

Medina Supply Inc No 113079
Coffrage 9 5/8" (346.5 pi)
avec transport

Béton Central No 767691-1

C.L.Baril No 100818
C.L.Baril No 100835

Excavation Gentilly No 006208

Equipements de cimentation pour
coffrage 9 5/8" incluant:
3 centralizeurs, un sabot-guide
un bouchon de déplacement

"Casing bowl" usage de 9 5/8"

"Adapter flange" de 9 5/8"(3000psi)
à 7 1/16" (3000psi)

Trépan usagé de 8 1/2"

Trépan usagé de 12 1/4"

ITEM 5 AUTRES SERVICES

Brefer Inc No 12752
Usinage sur stabilizeurs 8 1/2"

Supervision de chantier incluant
véhicule + dépenses + cellulaire
600$/jr * 10 jours

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

Foragaz Inc.

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE: ______
PUITS: BECANCOUR JUNEX
DATE: 24 NOV
FOREUSE: ______
TEMPERATURE: ______

Profondeur m : ______
Avancement m : ______
Formation: ______

TREPAN:
Dia. mm: ______
Série: ______
Poids: ______
RPM: ______
Mètres forés: ______
Cumulatif: ______

MATERIAUX:	DESCRIPTION	COUT
Foreuse		
Puits		

BOUE:
WT: ______
VIS: ______
PH: ______

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Préparatifs																								
Mobilisation																								
Démobilisation																								
Installation																								
Forage																								
Attente																								
Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ______

REMARQUE: 5200 KPA
7HRS DEPLACÉ TOOL HOUSE COUPÉ ARBRE
PLACE DRILL MONTE LE MAT PLACE PUMP
VERIFIER SUB FINI 16HRS

Bertrand Haley
Signature du foreur

8
Heures

J PLEBVESQUE 8

J DEROSIER
Signature de l'assistant-foreur

8
Heures

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE:
PUITS: BECANCOUR SUNEX
DATE: 27 NOV 2000
FOREUSE: BARBER
TEMPERATURE:

Profondeur m :
Avancement m : 20M
Formation:

TREPAN:
Dia. mm: 8 1/2
Série:
Poids:
RPM: 70
Mètres forés:
Cumulatif:

MATERIAUX: DESCRIPTION COUT
Foreuse
Puits

BOUE:
WT:
VIS: EAU
PH:

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
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Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

PUIT ENCLOT 5800 KPA

Heures travaillées

REMARQUE: 7HRS FINIR DE RIG UP PRIME PUMP
DRILL EN 8 1/2" 16 HRS BRISE HOSE HYDRAU[illegible]
FINI 17HRS

[signature] 10
Signature du foreur — Heures

J DEROSIER 9
Signature de l'assistant-foreur — Heures

J P LESOESSQUE
9 HRS

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE: FORAGAZ
PUITS: BECHANCOUR JUNEX
DATE: 28 NOV 2000
FOREUSE: BARBER
TEMPERATURE: _____

Profondeur m : _____
Avancement m : 56 m.
Formation: _____

TREPAN:
Dia. mm: _____
Série: _____
Poids: _____
RPM: _____
Mètres forés: _____
Cumulatif: _____

MATERIAUX:

	DESCRIPTION	COÛT
Foreuse		
Puits		

BOUE:
WT: _____
VIS: _____
PH: _____

REPARTITION DU TEMPS

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Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées _____

REMARQUE: PUIT ENCLOT 5500 KPA MATIN 5800 KPA SOIR
7 HR REPARÉ HOSE HYDRAULIC SORTIR
COLLAR 6 1/4" POUR BATIR STAB TRAVAIL
APRÈS PELLE KUBOTA FINI 17 HRS

Bastien Hudon — Signature du foreur — 9 Heures — JPLESUESSO 9 HRS

J P EROSIER — Signature de l'assistant-foreur — 9 Heures

Foragaz Inc.

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE FORAGE ET DE COMPLETION

COMPAGNIE: Foragaz inc
PUITS: Jesmer Bécancour
DATE: 29 NOV 2000
FOREUSE: ____
TEMPERATURE: ____

Profondeur m : 55M
Avancement m : ____
Formation: ____

TREPAN:
Dia. mm: ____
Série: ____
Poids: ____
RPM: ____
Mètres forés: ____
Cumulatif: ____

MATERIAUX:

	DESCRIPTION	COUT
Foreuse		
Puits		

BOUE:
WT: ____
VIS: ____
PH: ____

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
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Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ____

REMARQUE:

7HRS SOUDÉ APRES STB DEBUT DBL
13HRS A 17HRS

Breton Hely
Signature du foreur — 9 Heures

J PLESOESQUC
9

J DEROSIER
Signature de l'assistant-foreur — 9 Heures

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE: FORAGAZ
PUITS: Jumper Becancour #
DATE: 30 NOV 2000
FOREUSE: BARBER
TEMPERATURE: _____

Profondeur m : 100
Avancement m : _____
Formation: _____

REHM 20M 12¼" DRILL

TREPAN:
Dia. mm: 8½
Série: _____
Poids: _____
RPM: _____
Mètres forés: _____
Cumulatif: _____

MATERIAUX:

	DESCRIPTION	COUT
Foreuse		
Puits		

BOUE:
WT: _____
VIS: _____
PH: _____

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
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Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées _____

REMARQUE:

7HRS DRILL JUSQU'A 110M 14½ HRS SORTIE DU TROU DIFFICULTE A SORTIR 3 PREMIER COLLAR TRIP DRILL EN 12¼" 18H A 20HRS 20M FINI 20HRS

Signature du foreur — 13 Heures — JP LESUEUR

Signature de l'assistant-foreur — 13 Heures — 13 HR

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE: FORAGAZ
PUITS: Bureau Bécancour 1
DATE: 01 DEC 2000
FOREUSE: BARBER
TEMPERATURE: _____

Profondeur m : 78
Avancement m : _____
Formation: _____

TREPAN:
Dia. mm: 12 1/4 "
Série: _____
Poids: _____
RPM: _____
Mètres forés: _____
Cumulatif: _____

MATERIAUX:

	DESCRIPTION	COUT
Foreuse		
Puits		

BOUE:
WT: _____
VIS: _____
PH: _____

REPARTITION DU TEMPS

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Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ____

REMARQUE:

7 HRS ALÉSE DRILL EN 12 1/4" ARRÊTE DRILL
~~78 M~~ 18 HRS DRAIN HOSE FINI 18 1/2 HRS

Beatrice Label — Signature du foreur — 11 1/2 Heures — J P LESUESSO

J DEBOSIER — Signature de l'assistant-foreur — 11 1/2 Heures — 11 1/2

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE FORAGE ET DE COMPLETION

COMPAGNIE:
PUITS: J UNIEX Bécancour
DATE: 5 DEC 2000
FOREUSE:
TEMPERATURE:

Profondeur m : 103M
Avancement m : 27M
Formation:

TREPAN:
Dia. mm: 12 1/4
Série:
Poids:
RPM:
Mètres forés:
Cumulatif:

MATERIAUX:

	DESCRIPTION	COUT
Foreuse		
Puits		

BOUE:
WT: EAU
VIS:
PH:

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
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Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées

REMARQUE: 7 1/2 HRS DRILL 12 1/4" FINI 19 1/2 HRS

[signature] 12
Signature du foreur — Heures

J DEROSIER 12
Signature de l'assistant-foreur — Heures

J PLESUESQU
12 HR

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE FORAGE ET DE COMPLETION

COMPAGNIE: _____
PUITS: JUDIEX Becancour
DATE: 4 DEC 2002
FOREUSE: BARBIER
TEMPERATURE: _____

Profondeur m : 110 MM
Avancement m : _____
Formation: _____

TREPAN:
Dia. mm: 12 1/4
Série: _____
Poids: _____
RPM: _____
Mètres forés: _____
Cumulatif: _____

MATERIAUX:

	DESCRIPTION	COU'
Foreuse		
Puits		

BOUE:
WT: _____
VIS: _____
PH: _____

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Préparatifs																								
Mobilisation																								
Démobilisation																								
Installation																								
Forage																								
Attente																								
Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ____

REMARQUE:
6 HRS FINIR DE DRILLÉ 110 MM 12 1/4
10 HRS SORTIR DU TRAV MIDI INSTALL
SALEUR RENTRE CASSING 9 5/8 FINI
18 HRS

Signature du foreur — 12 Heures — J PLÉSUE

J PEROSIER — Signature de l'assistant-foreur — 12 Heures — 12 hrs

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE:
PUITS: JUNEX Becancour 1
DATE: 5 DEC 2000
FOREUSE: BARBER
TEMPERATURE:

Profondeur m :
Avancement m :
Formation:

9 5/8 CASSING

TREPAN:
Dia. mm:
Série:
Poids:
RPM:
Mètres forés:
Cumulatif:

~~[illegible]~~ MM + 105 M +1.00 M K-B

MATERIAUX:
Foreuse
Puits

DESCRIPTION	COU

BOUE:
WT:
VIS:
PH:

RETOUR DE CIMENT
SURFACE

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Préparatifs																								
Mobilisation																								
Démobilisation																								
Installation																								
Forage																								
Attente																								
Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées

REMARQUE:

7 HRS PRIME PUMP CIRCULÉ CASSING
DENISE BAGUE 9 3/8 ~~[illegible]~~ 9½ HRS ATTENTE POU
CIMENT 12½ HRS BRIDE CIMENTE 13¼ HRS
FINI LAVE PUMP FINI 12 HRS

Signature du foreur — 10 Heures

J DEROSIER
Signature de l'assistant-foreur — 10 Heures

J P LESUESQUE
10 HRS

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE FORAGE ET DE COMPLETION

COMPAGNIE: ______
PUITS: JUNEX BECANCOUR
DATE: 6 DEC 2000
FOREUSE: BARBER
TEMPERATURE: ______

Profondeur m : ______
Avancement m : ______
Formation: ______

TREPAN:
Dia. mm: ______
Série: ______
Poids: ______
RPM: ______
Mètres forés: ______
Cumulatif: ______

MATERIAUX: DESCRIPTION COU'
Foreuse ______
Puits ______

BOUE:
WT: ______
VIS: ______
PH: ______

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Préparatifs																								
Mobilisation																								
Démobilisation																								
Installation																								
Forage																								
Attente																								
Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ______

REMARQUE: 7HRS TRAVAILLÉ CHASSING BOWL
BERTRAND DOCTEUR FAIRE TRAVAILLE [illegible]

[signature] 9 Heures
Signature du foreur

J DEROSIER 9 Heures
Signature de l'assistant-foreur

JP LESVESQUE
9 HR

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE: _____
PUITS: JUNEX BÉCANCOURT2
DATE: 7 DEC 2000
FOREUSE: BARBER
TEMPERATURE: _____

Profondeur m : _____
Avancement m : _____
Formation: _____

TREPAN:
Dia. mm: _____
Série: _____
Poids: _____
RPM: _____
Mètres forés: _____
Cumulatif: _____

MATERIAUX: DESCRIPTION COU'
Foreuse _____ _____
_____ _____
_____ _____
Puits _____ _____
_____ _____
_____ _____

BOUE:
WT: _____
VIS: _____
PH: _____

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Préparatifs																								
Mobilisation																								
Démobilisation																								
Installation																								
Forage																								
Attente																								
Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ____

REMARQUE: 6HRS ALLÉ THEDFORD STB RAMASSÉ FLANGE 12HRS SITE SOUDE FLANGE REMETRE DANS LE TROU 5 COLLAR Rig UP BOP FINI 19HRS

Signature du foreur — 12 Heures — J PLESSIS 90

Signature de l'assistant-foreur — 7 Heures — 7

J DEROSIER

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Belair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE: _____
PUITS: JUNEX BERAN COUR
DATE: 8 DEC. 2000
FOREUSE: _____
TEMPERATURE: _____

Profondeur m : 130 M
Avancement m : _____
Formation: _____

TREPAN:
Dia. mm: 8 1/2
Série: _____
Poids: _____
RPM: _____
Mètres forés: _____
Cumulatif: _____

MATERIAUX:

	DESCRIPTION	COUT
Foreuse		
Puits		

BOUE:
WT: _____
VIS: _____
PH: _____

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Préparatifs																								
Mobilisation																								
Démobilisation																								
Installation																								
Forage																								
Attente																								
Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ____

REMARQUE: 6 HRS FINIR FLOW NIPPLE PRIMÉ PUMP
RENTRE DANS LE TROU DÉBUT DRILL 13h
DRILL CIMENT FORMATION 130 M DRAINER
HOSE PUMP 15 1/2 HRS

Brian Halal — Signature du foreur — 12 1/2 Heures — J PLESUESQUE

J DEBOSIER — Signature de l'assistant-foreur — 12 1/2 Heures

12 1/2

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE
FORAGE ET DE COMPLETION

COMPAGNIE: FORAGAZ INC
PUITS: Jupiter Becancour I
DATE: 19 Decembre 2000
FOREUSE: _____
TEMPERATURE: _____

Profondeur m : _____
Avancement m : _____
Formation: _____

TREPAN:
Dia. mm: _____
Série: _____
Poids: _____
RPM: _____
Mètres forés: _____
Cumulatif: _____

MATERIAUX: DESCRIPTION COU

Foreuse _____ _____
_____ _____
_____ _____

Puits _____ _____
_____ _____
_____ _____

BOUE:
WT: _____
VIS: _____
PH: _____

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Préparatifs																								
Mobilisation																								
Démobilisation																								
Installation																								
Forage																								
Attente																								
Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ___

REMARQUE: 7HRS DEBUT DRILL 9HRS A 10½HRS BRISE BEARING DE LA TETE 4ELLE TROIS RIVIERE 2 FOIS FINI 18HRS

Signature du foreur — 11 Heures — J PLESCESSUS

Signature de l'assistant-foreur — 10 Heures — 10

Foragaz Inc.

FORAGAZ INC.
1205 Impériale
C.P. 8091 Val-Bélair, Qc
G3K 1Y7
Tél: (418) 845-0938

RAPPORT JOURNALIER DE FORAGE ET DE COMPLETION

COMPAGNIE: Foragaz inc
PUITS: Junex Bécancour 1
DATE: 10 Décembre 2000
FOREUSE: ______
TEMPERATURE: ______

Profondeur m : ______
Avancement m : ______
Formation: ______

TREPAN:
Dia. mm: ______
Série: ______
Poids: ______
RPM: ______
Mètres forés: ______
Cumulatif: ______

MATERIAUX: DESCRIPTION COU'
Foreuse ______ ______
Puits ______ ______

BOUE:
WT: ______
VIS: ______
PH: ______

REPARTITION DU TEMPS

HEURES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Préparatifs																								
Mobilisation																								
Démobilisation																								
Installation																								
Forage																								
Attente																								
Repas																								
Essai																								
Diagraphie																								
Pose de coffrage																								
Cimentation																								
Développement																								
Entretien																								
Divers																								

Heures travaillées ______

REMARQUE:
7hRS START DRILL GELÈ DANS LES B
8½hRS ARRETE FORAGE SORTI 2 COLLAR
RAMASSÉ BAISSÉ MAT APPORTÉ DRILL ENTR
FINI 19½hRS

Tempo Forget

[illegible] — 10½ — J PLESVESG[illegible]
Signature du foreur — Heures

J DEROSIER — 10½ — 10½
Signature de l'assistant-foreur — Heures

payé chèque 00159
août 2001

Client: Junex Inc.

Date: 2001/07/27

Projet: **Travaux au puits Junex Bécancour No 1 pendant période du 1 juin 2001 au 15 juillet 2001.**
Re: Opérations de forage

Facture No 229
TPS: R121192546
TVQ: 1003638461

ITEM 1 MOBILISATION DE LA FOREUSE ET INSTALLATION

Montant forfaitaire

ITEM 2 FOREUSE EN OPÉRATION

Date	Description des travaux	Heures Foreuse
11 juin 01	Début du forage	4,5
12 juin 01	Foré jusqu'à 188m	12
13 juin 01	Foré jusqu'à 239 m.	12
14 juin 01	Foré jusqu'à 283 m.	12
15 juin 01	Foré jusqu'à 321 m.	12
16 juin 01	Foré jusqu'à 351 m.	12
17 juin 01	Entretien sur tête de rotation	0
18 juin 01	Terminé entretien et sortir du trou	6
19 juin 01	Terminé entretien et rentré dans le trou avec un nouveau trépan.	6
20 juin 01	Foré jusqu'à 389 m.	12

Foragaz Inc.

21 juin 01	Foré jusqu'à 428 m.	12
22 juin 01	Foré jusqu'à 453 m.	12
23 juin 01	Foré jusqu'à 467 m	12
24 juin 01	Foré jusqu'à 476 m.	8
25 juin 01	Foré jusqu'à 492 m.	11
26 juin 01	Foré jusqu'à 506 m.	12
27 juin 01	Foré jusqu'à 507 m Bris du systême hydraulique	2
28 juin 01	Réparations	0
29 juin 01	Réparations	0
30 juin 01	Terminé réparations et foré jusqu'à 510 m.	2
1 juil. 01	Foré jusqu'à 532 m.	12
2 juil. 01	Foré jusqu'à 545 m.	8
3 juil. 01	Foré jusqu'à 556 m.	12
4 juil. 01	Foré jusqu'à 560m et sorti du trou pour changer de trépan.	12
5 juil. 01	Foré jusqu'à 576 m.	12
6 juil. 01	Foré jusqu'à 596 m.	12
7 juil, 01	Foré jusqu'à 608 m.	12
8 juil. 01	Foré jusqu'à 641 m.	12
9 juil. 01	Foré jusqu'à 681 m.	12
10 juil 01	Foré jusqu'à 719 m.	12
11 juil 01	Foré jusqu'à 750 m.	12
12 juil 01	Foré jusqu'à 781 m.	12

FORAGAZ INC.
1205, Impériale, Val- Bélair, Québec, Canada, C.P. 8091, G3K 1Y7, tél.:(418)845-0938

13 juil 01	Foré jusqu'à 807 m.	12
14 juil 01	Foré jusqu'à 822 m.	10
15 juil 01	Foré jusqu'à 834 m.	12

IEM 3 SERVICES PAR FORAGAZ

1- Pelle Kubota Kh-28

3- Roulotte de chantier

4- Location et réparations de 3 stabilizeurs de 8 1/2"
5- Véhicule + cellulaire + essence;

6- Service de géologie de sonde à temps partiel.

ITEM 4 AUTRES SERVICES

1- Alberta Instrument No 9108
2- Location Bécancour No 020678
3- Location Bécancour No 020643
4- H.M.Métal Inc. No 11676
5- Air Canada no 014-74177515

ITEM 5 MATÉRIAUX

1- Murphy's Bits No 7191
2- Murphy's Bits no 7235 et 7258
3- Wesburne No 5996459-01
4- Wesburne No 5996586-01
5- Wesburne No 5986373-01
6- H.M.Métal No 11646
7- Usinage NY-KA No 2458
8- Impact Oilfield No 10560
9- Weldco No 587174
10- Frank M. O'Dowd No 0187547-00
11- Papeterie
12- Leblanc Inc.No 1-561345
13- Hyco Canada No 10182

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
BECANCOUR	#1			01 06 11

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ	

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½	13.5 (#) / 8	E	4 3/4"	3½ IF	1	1	BETHEM	DUPLEX	254

= millimetre (mm)
weight on bit indicator will record decanewton (daN)
linear mass = gram per metre (kg/m)
viscosity = stoke per litre (s/L)

plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)		Initial
(3) Mast Inspected Before Raising or Lowering		Initial

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	9 5/8		ERW						

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA — No.

DATE 11 06 11 ST 12 (Year Month Day)

WELL NAME & No. BECANCOUR

COMPANY FORAGAZ

RIG MANAGER BERTRAND HABEL

PROVINCE QUEBEC

CAMP ____ NONCAMP ____

RIG No. 1

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1.	RIG UP AND TEAR DOWN		
2.	DRILL ACTUAL	1½	12
3.	REAMING		
4.	CORING		
5.	CONDITION MUD & CIRCULATE		
6.	TRIPS		
7.	LUBRICATE RIG		
8.	REPAIR RIG		
9.	CUT OFF DRILLING LINE		
10.	DEVIATION SURVEY		
11.	WIRE LINE LOGS		
12.	RUN CASING & CEMENT		
13.	WAIT ON CEMENT		
14.	NIPPLE UP B.O.P.		
15.	TEST B.O.P.		
16.	DRILL STEM TEST		
17.	PLUG BACK		
18.	SQUEEZE CEMENT		
19.	FISHING		
20.	DIR. WORK		
21.	Rig up Drlg.	10½	
22.			
23.			
COMPLETION	A. PERF'R'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK

No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.
TOTAL MUD COST

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			m
	BIT	BHO	150,75
	STB RMR -	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	1
SIZE	
MFG.	
TYPE	
JETS mm	
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.			m
	BIT #1		23
	NB		1.10
	STB RMR STB	OD	1.19
	D.C. ID X.O	OD	.18
	STB RMR	OD	
4	D.C. ID 6 11	OD	36.87
12	STB RMR 4 3/4	OD	111.27
4	STANDS DP		37.66
	SINGLES DP		
	KELLY DOWN		
	TOTAL		188.50
	(FORCE) WT. OF STRING		188.50

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	EAU		
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

METRES DRILLED

FROM	TO	DR., D RM. R CORE..C	CORE No.
130m	137.5		

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAREL - P COM'D - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
17.30				Début Forage	14.30
	19.00	1½	2		

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DERSTER	12		
MOTORMAN		J-P LESVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

METRES DRILLED

FROM	TO	DR., D RM. R CORE..C	CORE No.
137.5m	185 m		

TE 2001-06-12

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAREL - P COM'D - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
7.00	19.00	12	2	DRILL	

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DERSTER	12		
MOTORMAN		J-P LESVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

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OFFICIAL DAILY D ING REPORT FORM

APPROVAL APPROVED COPYRIGHT

DAILY DRILLING REPORT — REPORT No.

BASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
BECANCOUR	1			01 06 13

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ	I

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER

SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4½	13.75 LBS	E	4¾	3½ IF	1	1	BETLEHEM	DUPLEX	254

TIME DISTRIBUTION - HOURS

OPERATION	FIRST TOUR	SECOND TOUR
RIG UP AND TEAR DOWN		
DRILL ACTUAL	12	12
REAMING		
CORING		
CONDITION MUD & CIRCULATE		
TRIPS		
LUBRICATE RIG		
REPAIR RIG		
CUT OFF DRILLING LINE		
DEVIATION SURVEYS		
WIRE LINE LOGS		
RUN CASING & CEMENT		
WAIT ON CEMENT		
NIPPLE UP B.O.P.		
TEST B.O.P.		
DRILL STEM TEST		
PLUG BACK		
SQUEEZE CEMENT		
FISHING		
OTHER WORK		
A. PERFR'TN		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'NL		
G.		
TOTALS	12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

W/CONTR. D.P.
W/OPR. D.P.
W/O DP
STANDBY
DAY WORK
DAYS
SPUD
CUMULATIVE DRILLING HRS.
MUD COST

DRILLING ASSEMBLY (at end of tour) — BIT RECORD — MUD RECORD

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD	
	BIT 1	.23 m	BIT No.	1
	NB	1.10	SIZE	8 3/4"
	STB RMR STB OD	1.19 m	MFG.	
	D.C. ID 2.X0 OD	.18 m	TYPE	
	STB RMR OD	m	JETS mm	0 F E N
4	D.C. ID 6" OD	36.37 m	SER No.	6144 NE
12	STB RMR 4 3/4 OD	111.27 m	DEPTH OUT	
			DEPTH IN	
			TOTAL METRES DRILLED	
			TOTAL HRS. RUN	
	STANDS DP	m	COND. 1/8's T/B/GAGE	
10	SINGLES DP	95.56 m	FLOW RATE m³/min	
	KELLY DOWN	m	PRESSURE DROP kPa	
	TOTAL	245.48		

(FORCE) WT. OF STRING daN

MUD RECORD			
TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY	F	A	V
PV mPa·s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: UN PETIT PLU DE GAZ QUI PERCOLE DANS LA BOUE A LA SURFACE

DRILLER

FIRST TOUR

DRILLING ASSEMBLY (at end of tour) — BIT RECORD — MUD RECORD

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD	
	BIT 1	.23 m	BIT No.	1
	NB	1.10	SIZE	8 3/4"
	STB RMR STB OD	1.19 m	MFG.	
	D.C. ID 2.X0 OD	.18 m	TYPE	
	STB RMR OD	m	JETS mm	0 F E N
4	D.C. ID 6" OD	36.87 m	SER No.	6144 NE
12	STB RMR 4 3/4 OD	111.27 m	DEPTH OUT	
			DEPTH IN	
			TOTAL METRES DRILLED	
			TOTAL HRS. RUN	
19	STANDS DP	192.96	COND. 1/8's T/B/GAGE	
	SINGLES DP	m	FLOW RATE m³/min	
	KELLY DOWN	283.81	PRESSURE DROP kPa	
	TOTAL	476.77		

(FORCE) WT. OF STRING daN

MUD RECORD			
TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa·s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: QUELQUE PETIT BOUILLON DE GAZ DANS LE TROU LE TROU RESTE PLEIN D'EAU

DRILLER

SECOND TOUR

pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator weight = record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa·s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B. — OP. — R.M.

	OP.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H&S Signs Posted (if required)	Initial	Initial
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)		Initial
(3) Mast Inspected Before Raising or Lowering		Initial

LEGAL LAND DESCRIPTION

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

LAST CASING, TUBING OR LINER

	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	PKR. TO CSG. HD.	SET AT
	9⅝		ERW			11	109.35 m		

METRES DRILLED — FORMATION (SHOW CORE RECOVERY)

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARREL - P COM'D - C
188	239				65	10/12		5½	10⁴			
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
7.00	19.00	12	2	DRILL	

METRES DRILLED — FORMATION (SHOW CORE RECOVERY)

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARREL - P COM'D - C
239	283			DRILL 2001-06-14	45			5½	10			
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
7.00	19.00	12	2	DRILL	

DRILLING CREW PAYROLL DATA — No.

DATE 2001 (Year) 06 (Month) 13 (Day) 14 — PROVINCE QUEBEC
WELL NAME & No. BECANCOUR — CAMP ____ NONCAMP ____
COMPANY FORAGAZ
RIG MANAGER BERTRAND HABEL — RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DEROSIER	12		
MOTORMAN		J-P LESUESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DEROSIER	12		
MOTORMAN		J-P LESUESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
BECANCOUR	# 1			2001 06 15 & 16

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC	I

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3 1/2	13.5 LBS	E	4 3/4	3 1/2 IF	1	1	BETLEHEM	DUPLEX	254

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = mm = millimetre (mm); weight of string = decadecanewton (daN); weight on bit: indicatcator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (s/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial ____ R.M. Initial ____
(2) Detailed Inspection-Weekly (using check list) — Initial ____ Initial ____
(3) H2S Signs Posted (if required) — Initial ____ Initial ____

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ____
(3) Mast Inspected Before Raising or Lowering — Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	9 5/8		ERW			11	104.35		105.35

WIRE LINE RECORD — REEL No. — SIZE — No. LINES — METRES SLIPPED — METRES CUT OFF — PRESENT LENGTH — MEGAJOULES SINCE LAST CUT — CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	12	12
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'RT'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.	ITEM	LENGTH (m)
1	BIT 1	.23
1	NBS	1.10
1	STB RMR STB	1.19
1	D.C. XO	.18
	STB RMR	
4	D.C. 6"	36.87
12	STB RMR 4 3/4	111.27
	STANDS DP	
18	SINGLES DP	171.22
	KELLY DOWN	
	TOTAL	322.06
	(FORCE) WT. OF STRING (daN)	

BIT RECORD

BIT No.	1
SIZE	8 3/4
MFG.	
TYPE	M44NG
JETS mm	OPEN
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa·s / YP Pa	EAU
GEL STR. Pa	
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED — TYPE — AMT. kg — TYPE — AMT. kg

REMARKS: PETITE BULLE DE GAZ LE MATIN
SOQUIP BECANCOUR I TUBING SOOKPA
ANNULUS 5800KPA
A 301M UN PETIT PEU DE GAZ

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
283	321				65	10/12		5 1/2	48			

DEVIATION RECORD — DEPTH — DEV. — DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	19:00	12	2	DRILL

BOILER HOURS

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.	ITEM	LENGTH (m)
1	BIT 1	.23
1	N.B.S.	1.10
1	STB RMR STB	1.19
1	D.C. XO	.18
	STB RMR	
4	D.C. 6"	36.81
12	STB RMR 4 3/4	111.27
	STANDS DP	200.22
21	SINGLES DP	
	KELLY DOWN	
	TOTAL	351.06
	(FORCE) WT. OF STRING (daN)	

BIT RECORD

BIT No.	1
SIZE	8 3/4
MFG.	
TYPE	M44NG
JETS mm	OPEN
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa·s / YP Pa	EAU
GEL STR. Pa	
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED — TYPE — AMT. kg — TYPE — AMT. kg

REMARKS

DRILLER

DATE 2001-06-16

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
321	351				65	10/12		5 1/2	48			

DEVIATION RECORD — DEPTH — DEV. — DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	19:00	12	2	DRILL

BOILER HOURS

DRILLING CREW PAYROLL DATA — No.

DATE 2001 06 15 & 16 (Year Month Day) — PROVINCE QUEBEC
WELL NAME & No. BECANCOUR #1 — CAMP ____ NONCAMP ____
COMPANY FORAGAZ INC
RIG MANAGER BERTRAND HABEL — RIG No. I

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DESROSIER	12		
MOTORMAN		J-P-LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B- HABEL	12		
DERRICKMAN		J-DESROSIERS	12		
MOTORMAN		J.P. LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

FORM 2T6m — APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY — Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	# 1			2001 06 17 & 18 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]
SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½	13.51B	E	4¾	3½IF	1	1	BETLEHEM	DUALEX	254

Metric expressions: pump-stroke lgth = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (s/L); density = kilogram per cubic metre (kg/m³); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.: (1) Daily Walk Around Inspection — OPR. Initial / R.M. Initial; (2) Detailed Inspection-Weekly (using check list) — Initial / Initial; (3) H₂S Signs Posted (if required) — Initial / Initial

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial; (2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial; (3) Mast Inspected Before Raising or Lowering — Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	9⅝		FRN			11	105.35		105.35

WIRE LINE RECORD — REEL No.: ; SIZE: ; No. LINES: ; METRES SLIPPED: ; METRES CUT OFF: ; PRESENT LENGTH: ; MEGAJOULES SINCE LAST CUT: ; CUMULATIVE MEGAJOULES:

DRILLING CREW PAYROLL DATA

No.

DATE: 2001 06 17 & 18 (Year Month Day) — PROVINCE: QUEBEC
WELL NAME & No.: BECANCOUR #1 — CAMP ___ NONCAMP ✓
COMPANY: FORAGAZ INC.
RIG MANAGER: BERTRAND HABEL — RIG No.: 1

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		5½
7	LUBRICATE RIG		
8	REPAIR RIG	6	6
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	OUTILS		½
22			
23			
COMPLETION A	PERF'RT'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS		6	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY): HRS. W/CONTR. D.P. ; HRS. W/OPR. D.P. ; HRS. W/O/DP ; HRS. STANDBY ; TOTAL DAY WORK ; No. OF DAYS FROM SPUD ; CUMULATIVE ROTATING HRS. ; TOTAL MUD COST

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.	Item	Length (m)
1	BIT 1	.23
1	N.B.S.	1.10
1	STB RMR T.B. OD	1.14
1	D.C. ID X.O.	.18
	STB RMR OD	
4	D.C. 6¼ OD	36.87
12	STB RMR 4¾ OD	111.27
	STANDS DP	
21	SINGLES DP	200.22
	KELLY DOWN	
	TOTAL	351.06
	(FORCE) WT. OF STRING daN	

BIT RECORD

BIT No.	1
SIZE	8½"
MFG.	
TYPE	M44NG
JETS mm	OPEN
SER No.	
DEPTH OUT	351
DEPTH IN	0
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa·s YP Pa: EAU; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %

MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg

REMARKS:

DRILLER

METRES DRILLED FROM	TO	DR.'D RM.'R CORE.'C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	METHOD RUN SGL-S PARTEL-P COM'D-C
351	351											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION
351	5½	

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7⁰⁰	13⁰⁰	6HS	8	DEMANCHER TETE ROTATION

BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		BERTRAND HABEL	4		
DERRICKMAN		J. DESROSIERS	6		
MOTORMAN		J-P. LEVESQUE	6		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST-TIME ACCIDENT

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.	Item	Length (m)
1	BIT 1	.23
1	N.B.S.	1.10
1	STB RMR T.B. OD	1.14
1	D.C. ID X.O.	.18
	STB RMR OD	
4	D.C. 6¼ OD	36.87
12	STB RMR 4¾ OD	111.27
	STANDS DP	
21	SINGLES DP	200.22
	KELLY DOWN	
	TOTAL	351.06
	(FORCE) WT. OF STRING daN	

BIT RECORD

BIT No.	1
SIZE	8½"
MFG.	
TYPE	M44NG
JETS mm	OPEN
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa·s YP Pa: EAU; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %

MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg

REMARKS:

DRILLER

METRES DRILLED FROM	TO	DR.'D RM.'R CORE.'C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	METHOD RUN SGL-S PARTEL-P COM'D-C
351	351											

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7⁰⁰	13⁰⁰	6⁰⁰	8	TRAVAILLER APRES TETE ROTATION (CHANGE)
13⁰⁰	18½	5½	6	SORTIE DU TROU POUR BIT (ENLEVER B.O.P.)
18½	19⁰⁰	½	21	RAMASSER LES OUTILS

BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	12		
DERRICKMAN		J. DESROSIERS	12		
MOTORMAN		J-P-LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	#1			2006 11 20

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3 1/2	13.3/16	E	4 1/4"	3 1/2 IF	1	1	EMSCO	DUPLEX	254

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		12
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	5.00	
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	ATTENTE	7.30	
22			
23			
COMPLETION	A. PERF'R'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12.30	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. W/O DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

DRILLING ASSEMBLY (at end of tour) — BIT RECORD: B.H.A. 151.85

No.			
1	BIT	1	0.23 m
1	STB RMR	N.B.S.	1.10 m
1	D.C. ID 6 11	OD 9.20	m
1	STB RMR	T.B.S.	1.19 m
1	D.C. ID 6 11	OD 9.32	m
1	STB RMR	T.B.S.	1.19 m
2	6 11		18.35
1	X.O.		0.18
12	4 3/4"		111.09
	STANDS DP		m
24	SINGLES DP		220.22
	KELLY DOWN		m
	TOTAL		352.07 m
	(FORCE) WT. OF STRING		daN

BIT RECORD: No. 2; SIZE 8 1/2"; MFG. HUGHES; TYPE HP44WE; JETS mm OPEN; SER No. 454922; DEPTH OUT; DEPTH IN 351; TOTAL METRES DRILLED; TOTAL HRS. RUN; COND. 1/8's T/B/GAGE; FLOW RATE m³/min; PRESSURE DROP kPa

MUD RECORD: TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa•s / YP Pa; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %

MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg

REMARKS

DRILLER

SECOND TOUR

DRILLING ASSEMBLY (at end of tour) — BIT RECORD: B.H.A. 151.85

No.			
1	BIT	1	0.23 m
1	STB RMR	N.B.S.	1.10 m
1	D.C. ID 6 11	OD 9.20	m
1	STB RMR	T.B.S.	1.19 m
1	D.C. ID 6 11	OD 9.32	m
1	STB RMR	T.B.S.	1.19 m
2	6 11		18.35
1	X.O.		0.18
12	4 3/4		111.09
	STANDS DP		m
25	SINGLES DP		229.06
	KELLY DOWN		m
	TOTAL		289.91 m
	(FORCE) WT. OF STRING		daN

BIT RECORD: No. 2; SIZE 8 1/2"; MFG. HUGHES; TYPE HP44WE; JETS mm OPEN; SER No. 454922; DEPTH OUT; DEPTH IN 389; TOTAL METRES DRILLED 38; TOTAL HRS. RUN 12 1/4; COND. 1/8's T/B/GAGE; FLOW RATE m³/min; PRESSURE DROP kPa

MUD RECORD: TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa•s / YP Pa; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %

MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg

REMARKS: A little Bit of Dog Camming-up on Kelly.

DRILLER

Metric expressions: mud density = kg/m³; pump-stroke length = m; weight of string = daN; weight on bit = daN; linear mass = kg/m; viscosity = second per litre (s/L); flow rate = cubic metre per minute (m³/min); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa•s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	initial	initial
(2) Detailed Inspection-Weekly (using check list)	initial	initial
(3) H₂S Signs Posted (if required)	initial	initial
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)		initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)		initial
(3) Mast Inspected Before Raising or Lowering		initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
4 1/16		IRW			11	104.35		105.35

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF		PRESENT LENGTH
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA — No.

DATE 2006 11 20 (Year Month Day)

WELL NAME & No. BECANCOUR #1

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL

PROVINCE QUÉBEC

CAMP ____ NONCAMP ✓

RIG No. 1

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PART'L - P COM'D - C
351	351											

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
7.00	10.30	3.30	21	ATTENTE PIECE ROTATION TETE	
10.30	15.30	5.00	6	RENTREE DANS LE TROU CALIPER MESURER, REMETTRE PLACE B.O.P.	
15.30	19.00	3.30	21	INSTALLER TETE ROTATION PRETE A FONCTIONNER	
19.00	19.30	0.30	21	CHARGER PELLE POUR GASPÉ	

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DESROSIERS	12		
MOTORMAN		S-P LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

2006 - 06 - 14 & 20

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PART'L - P COM'D - C
351	389				60	9/11		52	50			

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
380 m.	5 1/2°							

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
7.00	19.00	12	2	DRILL 351 TO 389	
				PUIT JUNEX GALT & STEPHANE ST BEAT FORTIERVILLE GASPÉ AVEC KUBOTA ET PETITE DRILL AVEC FARDIER	

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		J-DESROSIERS	12		
DERRICKMAN		S-P LEVESQUE	12		
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE		B-HABEL	12		
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	1			2001 06 21/22

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Stéphane [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½"	13.3 lb	E	4¾"	3½ IF	1	1	BETLEHEM	DUPLEX	254

TIME DISTRIBUTION – HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	12	10
3	REAMING	~~2~~	2
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY): HRS. W/CONTR. D.P. / HRS. W/OPR. D.P. / HRS. WO/DP / HRS. STANDBY / TOTAL DAY WORK / No. OF DAYS FROM SPUD / CUMULATIVE ROTATING HRS / TOTAL MUD COST

FIRST TOUR

Drilling Assembly (at end of tour)

No.	Item	Length (m)
1	BIT 1	0.23
1	STB. RMR. N.B.S. OD	1.10
1	D.C. ID 6" OD	9.20
1	STB. RMR. ST.B. OD	1.19
1	D.C. ID 6" OD	9.32
1	STB. RMR. ST.B. OD	1.19
2	6"	18.35
1	X.O.	0.18
12	4¾"	111.19
	STANDS DP	
29	SINGLES DP	277.94
	KELLY DOWN	
	TOTAL	428.14
	(FORCE) WT. OF STRING daN	

Bit Record — B.H.A. 151.85

BIT No.	2
SIZE	8½"
MFG.	
TYPE	ALHINF
JETS mm	OPEN
SER. No.	454922
DEPTH OUT	
DEPTH IN	428
TOTAL METRES DRILLED	4?
TOTAL HRS. RUN	24
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

Mud Record

TIME	7:00	17:00
DENSITY kg/m³	1.16	1.15
PRESSURE GRADIENT		
VISCOSITY	50	54
PV mPa·s / YP Pa	1 EAU	
GEL STR. Pa		
WATER LOSS cm³		
pH		
SOLIDS %		

MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg

REMARKS: A LITTLE OFF GAZ WAS COMING UP ~~DE~~ ALL DAY

DRILLER

METRES DRILLED FROM	TO	DR. D R.M.R CORE. C	CORE No.
389	428		

2001-06-21 FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
65	9/10		5½	50			

DEVIATION RECORD DEPTH	DEV.
389	5°
409	6°

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	19:00	12	~~2~~	DRILL

JUNEX GALT I STEPHANE & BERTRAND PARTIR DE CHEZ ADAMS 6.30 HRS MONTE SUR SITE PRESSION DU PUIT ANNULUS 150 PSI 1100 KPA INSTALLE DRILL DEBUT DU POMPAGE AVEC SUCKER ROD MIDI POMPE JUSQUA 18 HRS PAS DE LIQUIDE A LA SURFACE FERME POUR LA NUIT

Par Stéphane Hébert Junex

SECOND TOUR

Drilling Assembly (at end of tour)

No.	Item	Length (m)
1	BIT 1	0.23
1	STB. RMR. N.B.S. OD	1.10
1	D.C. ID 6" OD	9.20
1	STB. RMR. ST.B. OD	1.19
1	D.C. ID 6" OD	9.32
1	STB. RMR. ST.B. OD	1.19
2	6"	18.35
1	X.O.	0.18
12	4¾"	111.09
	STANDS DP	
32	SINGLES DP	307.0
	KELLY DOWN	
	TOTAL	457.85
	(FORCE) WT. OF STRING daN	

Bit Record — B.H.A. 151.85

BIT No.	2
SIZE	8½"
MFG.	
TYPE	H44NF
JETS mm	OPEN
SER. No.	454922
DEPTH OUT	
DEPTH IN	453
TOTAL METRES DRILLED	102m
TOTAL HRS. RUN	34½
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

Mud Record

TIME	12:00	17:00
DENSITY kg/m³	1.12	1.12
PRESSURE GRADIENT		
VISCOSITY	44	46
PV mPa·s / YP Pa	7 EAU	
GEL STR. Pa		
WATER LOSS cm³		
pH		
SOLIDS %		

MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg

REMARKS: FRACTURES A PARTIR DE 433m.

DRILLER

METRES DRILLED FROM	TO	DR. D R.M.R CORE. C	CORE No.
428	453		

2001-06-22 FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
60	9/8		5½	50			

DEVIATION RECORD DEPTH	DEV.
428	5.5°
448	4.5°

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	9:00	2:00	3	Reaming 40m to clean the hole
9:00	19:00	10:00	7	DRILL

JUNEX GALT I STEPHAN & BERTRAND 6.30 HRS PRESSION DU PUIT 30 KPA TELEPHONE SORTIR PUMP LIQUIDE A INTERIEUR TUBING 15 M DIFICULTE A SORTIR PUMP POMPAGE FINI TRIP 15 HRS DINER REMONTE INTER CHARGE VOYAGE POUR RETOUR BECANCOUR FINI 22 HRS

Par Stéphane Hébert Junex

Metric expressions / inspections

E.R.C.B.: (1) Daily Walk Around Inspection; (2) Detailed Inspection-Weekly (using check list); (3) H₂S Signs Posted (if required) — OPR. Initial / R.M. Initial

(1) Rig Site Health and Safety Meeting (one meeting/crew/month); (2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month); (3) Mast Inspected Before Raising or Lowering — R.M. Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	7⅝"		ERW		11	101.35		103.5

WIRE LINE RECORD — REEL No. / SIZE / No. LINES / METRES SLIPPED / METRES CUT OFF / PRESENT LENGTH / MEGAJOULES SINCE LAST CUT / CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

DATE: 2001 06 21 & 22 — PROVINCE: QUEBEC

WELL NAME & No.: BECANCOUR 1 — CAMP / NONCAMP

COMPANY: FORAGAZ INC.

RIG MANAGER: BERTRAND HABEL — RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		J. DESROSIERS	12		
DERRICKMAN		J.-P. LEVESQUE	12		
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE		B-HABEL	12		
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		J. DESROSIERS	12		
DERRICKMAN		J.-P. LEVESQUE	12		
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE		B-HABEL	15		
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

FORM 2T6m — APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY — Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	1			2001 06 24

OPERATOR	CONTRACTOR	RIG No.
SUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]
SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½"	13.5kg	E	4¾"	3½IF	1	1	BETLEHEM	DUPLEX	2.4

TIME DISTRIBUTION - HOURS

CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1. RIG UP AND TEAR DOWN		
2. DRILL ACTUAL	8	5
3. REAMING		
4. CORING		
5. CONDITION MUD & CIRCULATE		30
6. TRIPS		
7. LUBRICATE RIG		
8. REPAIR RIG		
9. CUT OFF DRILLING LINE		
10. DEVIATION SURVEY		
11. WIRE LINE LOGS		
12. RUN CASING & CEMENT		
13. WAIT ON CEMENT		
14. NIPPLE UP B.O.P.		
15. TEST B.O.P.		
16. DRILL STEM TEST		
17. PLUG BACK	4	2³⁰
18. SQUEEZE CEMENT		
19. FISHING		
20. DIR. WORK		
21.		
22.		
23.		
COMPLETION A. PERF'RT'N		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'N'L		
G.		
TOTALS	12	8

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.	DRILLING ASSEMBLY	m
1	BIT 1	0.23 m
1	STB RMR U.B.S. OD	1.10 m
1	D.C. ID 6" OD	9.20 m
1	STB RMR S.T.B. OD	1.19 m
1	D.C. ID 6" OD	9.32 m
1	STB RMR S.T.B. OD	1.19 m
2	6"	18.35
1	X.O.	0.18
12	4¾"	111.09
	STANDS DP	m
33	SINGLES DP	316.95 m
	KELLY DOWN	m
	TOTAL	467.80 m
	(FORCE) WT. OF STRING	daN

BIT RECORD (B.H.A. 151.85)

BIT No.	2	
SIZE	8½"	
MFG.		
TYPE	M44NF	
JETS mm	OPEN	
SER No.	454922	
DEPTH OUT		
DEPTH IN	467	
TOTAL METRES DRILLED	116	
TOTAL HRS. RUN	42	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	12⁰⁰		
DENSITY kg/m³	1.12		
PRESSURE GRADIENT			
VISCOSITY	49		
PV mPa·s YP Pa	/ EAU		/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: 459 m l'eau a voulue déborder en haut de la table.

DRILLER

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.	DRILLING ASSEMBLY	m
1	BIT 1	0.23 m
1	STB RMR U.B.S. OD	1.10 m
1	D.C. ID 6" OD	9.20 m
1	STB RMR S.T.B. OD	1.19 m
1	D.C. ID 6" OD	9.32 m
1	STB RMR S.T.B. OD	1.19 m
2	6"	18.35
1	X.O.	0.18
12	4¾"	111.09
34	STANDS DP PIPE	326.02 m
22	SINGLES DP	467.88
	KELLY DOWN	m
	TOTAL	476.87
	(FORCE) WT. OF STRING	daN

BIT RECORD (B.H.A. 151.85)

BIT No.	2	
SIZE	8½"	
MFG.		
TYPE	M44NF	
JETS mm	OPEN	
SER No.	454.922	
DEPTH OUT		
DEPTH IN	476	
TOTAL METRES DRILLED	125	
TOTAL HRS. RUN	47	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	2⁰⁰	6⁰⁰	
DENSITY kg/m³	1.10	1.08	
PRESSURE GRADIENT			
VISCOSITY	49	49	
PV mPa·s YP Pa	EAU		/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

FORM 2T6m — APPROVAL PENDING — CAODC APPROVED — Revised December 1986

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Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (s/L); [...] in metres to two decimal places; flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial ____	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial ____	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) H2S Signs Posted (if required)	Initial ____	Initial ____	(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	9⅝		LRW			11	104.3		103.3

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF ____ PRESENT LENGTH ____
MEGAJOULES SINCE LAST CUT ____
CUMULATIVE MEGAJOULES ____

DRILLING CREW PAYROLL DATA — No.

DATE 2001 06 23 & 24 (Year Month Day) — PROVINCE QUÉBEC
WELL NAME & No. BECANCOUR 1 — CAMP ____ NONCAMP ____
COMPANY FORAGAZ INC.
RIG MANAGER BERTRAND HABEL — RIG No. 1

FIRST TOUR

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL-S PAR'EL-P COM'D-C
351	467			2001-06-23	60	98		5½	50			

REDUCED PUMP SPEED

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	467	1.36°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7⁰⁰	15⁰⁰	8	2	DRILL
15⁰⁰	19⁰⁰	4⁰⁰	17	TREPAN BOUCHE SORTIR 6 JOINT
				ESSAYE JUSQUA 19 HRS
				TRANSPORT GASPÉ FORTIERVILLE

BOILER HOURS

for [signature] / SUNEX inc

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		J. DESROSIERS	12		
DERRICKMAN		J.P. LEVESQUE	12		
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE		B-HABEL	11		
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL-S PAR'EL-P COM'D-C
467	476			2001-06-24	60	98		5½	50			

REDUCED PUMP SPEED

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
11⁰⁰	13³⁰			TRAVAILLE POUR DEBOUCHER BIT
	13.30	2³⁰	17	REUSSI A 13.30 HRS REMIRE 6 TIGE
13³⁰	14⁰⁰	30	5	CIRCULE REMIRE TIGE AU FOND
14⁰⁰	19³⁰		2	DRILL

BOILER HOURS

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	8		
DERRICKMAN		J-DEROSIER	8		
MOTORMAN		J-P LESVESQUE	8		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — APPROVED

COPYRIGHT

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	1			2004-06-25 & 26

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	4

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½"	15.5 lbs	E	4¾"	3½ IF	1	1	BETLEHEM	DUPLEX	254

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10¼	12
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	45m	
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		11	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.

HRS. W/OPR. D.P.

HRS. W/O D.P.

HRS. STANDBY

TOTAL DAY WORK

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD B.H.A. 151.85		MUD RECORD		
1	BIT 1	0.23 m	BIT No.	2	TIME	10:00	17:00
			SIZE	8½"	DENSITY kg/m³	49	49
1	STB. RMR. NBS OD	1.10 m	MFG.		PRESSURE GRADIENT		
1	D.C. ID 6" OD	9.20 m	TYPE	M44NF	VISCOSITY	1.08	1.09
1	STB. RMR. S.T.B. OD	1.19 m	JETS mm	OPEN	PV mPa·s / YP Pa	12 / 40	
1	D.C. ID 6 OD	9.32 m	SER No.	4154922	GEL STR. Pa	/	/
1	STB. RMR. S.T.B. OD	1.19 m	DEPTH OUT		WATER LOSS cm³		
2	6"	18.35	DEPTH IN	492	pH		
1	X.O.	0.18	TOTAL METRES DRILLED	147	SOLIDS %		
12	4¾"	111.09	TOTAL HRS. RUN	57			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg		
36	SINGLES DP	245.92 m	FLOW RATE m³/min	/ /			
	KELLY DOWN	m	PRESSURE DROP kPa				
	TOTAL	496.77 m					
	(FORCE) WT. OF STRING	daN					

REMARKS

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD B.H.A. 151.85		MUD RECORD		
1	BIT 1	0.23 m	BIT No.	2	TIME	10:00	17:00
			SIZE	8½"	DENSITY kg/m³	28	28
1	STB. RMR. NBS OD	1.10 m	MFG.		PRESSURE GRADIENT		
1	D.C. ID 6" OD	9.20 m	TYPE	M44NF	VISCOSITY	1.04	1.05
1	STB. RMR. S.T.B. OD	1.19 m	JETS mm	OPEN	PV mPa·s / YP Pa	F / 40	
1	D.C. ID 6" OD	9.32 m	SER No.	4154922	GEL STR. Pa	/	/
1	STB. RMR. S.T.B. OD	1.19 m	DEPTH OUT		WATER LOSS cm³		
2	6"	18.35	DEPTH IN	506	pH		
1	X.O.	0.18	TOTAL METRES DRILLED	155	SOLIDS %		
12	4¾"	111.09	TOTAL HRS. RUN	69			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg		
37	SINGLES DP	355.87 m	FLOW RATE m³/min	/ /			
	KELLY DOWN	m	PRESSURE DROP kPa				
	TOTAL	506.68 m					
	(FORCE) WT. OF STRING	daN					

REMARKS

DRILLER

FORM 2T6m

APPROVAL PENDING

CAODC APPROVED COPYRIGHT 1977 JANUARY

Revised December 1986

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (s/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B. — OPR. / R.M.
(1) Daily Walk Around Inspection — Initial ___ Initial ___
(2) Detailed Inspection-Weekly (using check list) — Initial ___ Initial ___
(3) H₂S Signs Posted (if required) — Initial ___ Initial ___

R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — Initial ___
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ___
(3) Mast Inspected Before Raising or Lowering — Initial ___

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	9⅝"		ERW			11	104.35		105.35

WIRE LINE RECORD — REEL No. / SIZE / No. LINES / METRES SLIPPED / METRES CUT OFF / PRESENT LENGTH / MEGAJOULES SINCE LAST CUT / CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE 2004-06-25 & 26 (Year Month Day) PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 CAMP ___ NONCAMP ___

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL RIG No. 7

FIRST TOUR

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
476	492			2004-06-25	60	9/8		5¼	54			

REDUCED PUMP SPEED

DEVIATION RECORD	DEPTH	DEV.	DIRECTION
	486 m.	4°	

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	15:00	7:00	2	Drill
15:00	15:45	45 m.	10	DEVIATION SURVEY
15:45	19:00	3:15	2	Drill

BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	11		
DERRICKMAN		J-DESROSIERS	11		
MOTORMAN		J-P LEVESQUE	11		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
492	506			2004-06-26	55	4/6		5¼	54			

REDUCED PUMP SPEED

DEVIATION RECORD	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	19:00	12	2	Drill

BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DESROSIERS	12		
MOTORMAN		J-P LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING

CAODC APPROVED COPYRIGHT 1977 JANUARY

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	1			2001-06-26

OPERATOR	CONTRACTOR	RIG No.
SUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]
SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½"	13.5 KG	E	4¾"	3½ IF	1	1	BETLEHEM	DUPLEX	254

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (s/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial ____ R.M. Initial ____
(2) Detailed Inspection-Weekly (using check list) — Initial ____ Initial ____
(3) H₂S Signs Posted (if required) — Initial ____ Initial ____

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ____
(3) Mast Inspected Before Raising or Lowering — Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	7⅝"		ERW			11	104.35		105.5

WIRE LINE RECORD — REEL No. ____
SIZE ____ No. LINES ____ METRES SLIPPED ____
METRES CUT OFF ____ PRESENT LENGTH ____
MEGAJOULES SINCE LAST CUT ____
CUMULATIVE MEGAJOULES ____

TIME DISTRIBUTION - HOURS

CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1. RIG UP AND TEAR DOWN		
2. DRILL ACTUAL	1	
3. REAMING		
4. CORING		
5. CONDITION MUD & CIRCULATE		
6. TRIPS		
7. LUBRICATE RIG		
8. REPAIR RIG	9.5	12
9. CUT OFF DRILLING LINE		
10. DEVIATION SURVEY	.5	
11. WIRE LINE LOGS		
12. RUN CASING & CEMENT		
13. WAIT ON CEMENT		
14. NIPPLE UP B.O.P.		
15. TEST B.O.P.		
16. DRILL STEM TEST		
17. PLUG BACK		
18. SQUEEZE CEMENT		
19. FISHING		
20. DIR. WORK		
21.		
22.		
23.		
COMPLETION A. PERF'RT'N		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'N'L		
G.		
TOTALS	11	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD B.H.A. 151.85		MUD RECORD	
1	BIT 1	0.23 m	BIT No.	2	TIME	
			SIZE	8½"	DENSITY kg/m³	
1	STB RMR 8.5 OD	1.10 m	MFG.		PRESSURE GRADIENT	
1	D.C. ID 6" OD	9.20 m	TYPE	M44NF	VISCOSITY	
1	STB RMR S.T.B.	1.19 m	JETS mm	OPEN	PV mPa·s YP Pa	EAU
1	D.C. ID 6" OD	9.32 m	SER No.	454922	GEL STR. Pa	
1	STB RMR S.T.B.	1.19 m	DEPTH OUT		WATER LOSS cm³	
2	6"	18.35	DEPTH IN	507	pH	
1	X.O.	0.18	TOTAL METRES DRILLED	1.6	SOLIDS %	
12	4¾"	111.09	TOTAL HRS. RUN	70		
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
38	SINGLES DP	365.83 m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	576.68 m				
(FORCE) WT. OF STRING		daN				

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
506	507			2001-06-27					4			

REDUCED PUMP SPEED

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	506	[illegible]							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
[illegible]	8.00	1	2	FOREÉ
[illegible]	8.30	0.5	10	DEVIATION SURVEY
[illegible]	6.00	9.5	8	REPAIR HYDRAULIC SYSTEM + PUMP

BOILER HOURS

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD B.H.A. 151.85		MUD RECORD	
1	BIT 1	0.23 m	BIT No.	2	TIME	
			SIZE	8½"	DENSITY kg/m³	
1	STB RMR 8.5 OD	1.10 m	MFG.		PRESSURE GRADIENT	
1	D.C. ID 6" OD	9.20 m	TYPE	M44NF	VISCOSITY	
1	STB RMR S.T.B.	1.19 m	JETS mm	OPEN	PV mPa·s YP Pa	EAU
1	D.C. ID 6" OD	9.32 m	SER No.	454922	GEL STR. Pa	
1	STB RMR S.T.B.	1.19 m	DEPTH OUT		WATER LOSS cm³	
2	6"	18.35	DEPTH IN	507	pH	
1	X.O.	0.18	TOTAL METRES DRILLED	1.6	SOLIDS %	
12	4¾"	111.09	TOTAL HRS. RUN	70		
	STANDS DP	365.83 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
38	SINGLES DP	[illegible] m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	576.68				
(FORCE) WT. OF STRING		daN				

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
506	506			2001-06-28								

REDUCED PUMP SPEED

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	19.00	12	8	TRAVAILLER APRÈS L'HYDRAULIQUE

BOILER HOURS

DRILLING CREW PAYROLL DATA

No.

DATE 2001-06-27 & 28 (Year Month Day) — PROVINCE QUÉBEC
WELL NAME & No. BÉCANCOUR #1 — CAMP ____ NONCAMP ____
COMPANY FORAGAZ INC.
RIG MANAGER BERTRAND HABEL — RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.		INJURIES YES	NO
DRILLER		B. HABEL	11			
DERRICKMAN		J. DESROSIERS	11			
MOTORMAN		J-P. LEFEBVRE	11			
FLOORMAN						
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.		INJURIES YES	NO
DRILLER		B-HABEL	12			
DERRICKMAN		J-DESROSIERS	12			
MOTORMAN		J-P-LEFEBVRE	12			
FLOORMAN						
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BEAUCOUR	1			2001-06-30

OPERATOR	CONTRACTOR	RIG No.
JONEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
(signature)	(signature)

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½"	13.36	E	4¾"	3½ IF	1	1	BETHLEHEM	DUPLEX	254

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1.	RIG UP AND TEAR DOWN		
2.	DRILL ACTUAL		2
3.	REAMING		
4.	CORING		
5.	CONDITION MUD & CIRCULATE		
6.	TRIPS		
7.	LUBRICATE RIG		
8.	REPAIR RIG		10
9.	CUT OFF DRILLING LINE		
10.	DEVIATION SURVEY		
11.	WIRE LINE LOGS		
12.	RUN CASING & CEMENT		
13.	WAIT ON CEMENT		
14.	NIPPLE UP B.O.P.		
15.	TEST B.O.P.		
16.	DRILL STEM TEST		
17.	PLUG BACK		
18.	SQUEEZE CEMENT		
19.	FISHING		
20.	DIR. WORK		
21.	[illegible]	9	
22.			
23.			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		9	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.	ITEM	OD / ID	LENGTH (m)
1	BIT 1		0.22
1	STB/RMR	NBS	1.10
1	D.C.	6"	9.20
1	STB/RMR	STB	1.14
1	D.C.	6"	9.32
1	STB/RMR	STB	1.14
2	6"		18.55
1	X.O.		0.18
12	4¾"		111.09
	STANDS DP		
28	SINGLES DP		365.83
	KELLY DOWN		
	TOTAL		517.68
	(FORCE) WT. OF STRING daN		

BIT RECORD (B.H.A.)

BIT No.	2
SIZE	8½"
MFG.	
TYPE	HP44 HF
JETS mm	OPEN
SER No.	454922
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa·s / YP Pa	EAU			
GEL STR. Pa				
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
7⅝"		[illegible]			11	104.5		105.3

LEGAL LAND DESCRIPTION

WIRE LINE RECORD

REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
506	506			2001-06-29								

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	16:00	9:00	21	Wash & and [illegible] Rig Repair [illegible]

BOILER HOURS

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.	ITEM	OD / ID	LENGTH (m)
1	BIT 1		0.23
1	STB/RMR	NBS	1.10
1	D.C.	6"	9.20
1	STB/RMR	STB	1.14
1	D.C.	6"	9.32
1	STB/RMR	STB	1.14
2	6"		18.55
1	X.O.		0.18
12	4¾"		111.09
	STANDS DP		
28	SINGLES DP		365.83
	KELLY DOWN		
	TOTAL		517.68
	(FORCE) WT. OF STRING daN		

BIT RECORD (B.H.A. 151.85)

BIT No.	2
SIZE	8½"
MFG.	
TYPE	HP44 HF
JETS mm	OPEN
SER No.	454922
DEPTH OUT	
DEPTH IN	510
TOTAL METRES DRILLED	160
TOTAL HRS. RUN	72
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa·s / YP Pa	EAU			
GEL STR. Pa				
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
~~506~~	510			2001-06-30								
506	510				70			6¾	54			

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	17:00	10	8	Repair Rig
11:00	14:00	2	2	[illegible]

BOILER HOURS

DRILLING CREW PAYROLL DATA

No.

DATE 2001-06-29 & 30 (Year Month Day) PROVINCE QUEBEC

WELL NAME & No. BEAUCOUR 1 CAMP ____ NONCAMP ____

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.		INJURIES YES	INJURIES NO
DRILLER		J. DESROSIERS	9			
DERRICKMAN		J-P LEVESQUE	9			
MOTORMAN						
FLOORMAN						
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE		B. HABEL	16			
DERRICKMAN (2)						

No. OF DAYS ________ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.		INJURIES YES	INJURIES NO
DRILLER		BERTRAND HABEL	12			
DERRICKMAN		J. DESROSIERS	12			
MOTORMAN		J-P LEVESQUE	12			
FLOORMAN						
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

No. OF DAYS ________ SINCE LAST LOST TIME ACCIDENT

Safety

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial ____
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial ____
(3) H₂S Signs Posted (if required)	Initial ____	Initial ____

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) Mast Inspected Before Raising or Lowering	Initial ____

Units: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = seconds per litre (s/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

OFFICIAL DAILY DRILLING REPORT FORM

FORM 2T6m APPROVAL PENDING CAODC APPROVED COPYRIGHT 1977 JANUARY Revised December 1986

APPROVAL PENDING CAODC APPROVED COPYRIGHT 1977 JANUARY

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	1			2001 07 01 02

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]
SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½"	13.76	E	4¾"	S.DIF	1	1	BETHLEHEM	DUPLEX	254

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	11 30	8
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.30	
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'RT'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	8

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK
No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT 1	0.23	m
1	STB RMR 8½ OD	1.10	m
1	D.C. ID 6" OD	9.20	m
1	STB RMR 8½ OD	1.19	m
1	D.C. ID 6" OD	9.32	m
1	STB RMR 7⅞	1.19	m
2	6"	18.35	
1	X.O.	0.16	
12	4¾"	111.09	
	STANDS DP		m
40	SINGLES DP	385.71	m
	KELLY DOWN		m
	TOTAL	537.59	
	(FORCE) WT. OF STRING		daN

BIT RECORD (B.H.A. 151.85)	
BIT No.	2
SIZE	8½"
MFG.	
TYPE	MFINF
JETS mm	OPEN
SER No.	154922
DEPTH OUT	
DEPTH IN	532
TOTAL METRES DRILLED	182
TOTAL HRS. RUN	84
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD		
TIME	9 00	15 00
DENSITY kg/m³	1.02	1.02
PRESSURE GRADIENT		
VISCOSITY	28	28
PV mPa·s YP Pa	1 F/4	
GEL STR. Pa		
WATER LOSS cm³		
pH		
SOLIDS %		

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GDE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
9⅝		FRW			11	109.5		105.5

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF — PRESENT LENGTH
MEGAJOULES SINCE LAST CUT
CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR.D RM.R CORE..C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
510	532			001 / 01	72	14		6½	54			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
527m	4¼	4¼						

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7 00	15 00	8 00	2	Drill
15 00	15 30	.30	10	Deviation Survey
15 30	19 00	3 30	2	Drill

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT 1	0.23	m
1	STB RMR 8½ OD	1.10	m
1	D.C. ID 6" OD	9.20	m
1	STB RMR 8½ OD	1.19	m
1	D.C. ID 6" OD	9.32	m
1	STB RMR 7⅞	1.19	m
2	6"	18.35	
1	X.O.	0.18	
12	4¾"	111.09	
	STANDS DP		m
41	SINGLES DP	395.68	m
	KELLY DOWN		m
	TOTAL	547.54	
	(FORCE) WT. OF STRING		daN

BIT RECORD (B.H.A. 151.85)	
BIT No.	2
SIZE	8½"
MFG.	
TYPE	MFINF
JETS mm	OPEN
SER No.	154922
DEPTH OUT	
DEPTH IN	545
TOTAL METRES DRILLED	195
TOTAL HRS. RUN	92
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD	
TIME	11 00
DENSITY kg/m³	1.02
PRESSURE GRADIENT	
VISCOSITY	29
PV mPa·s YP Pa	1 F/4
GEL STR. Pa	
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR.D RM.R CORE..C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
532	545			2001 / 2	70	14		6½	54			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	16 00	8	2	DRILL

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial ____ R.M. Initial ____
(2) Detailed Inspection-Weekly (using check list) — Initial ____ Initial ____
(3) H₂S Signs Posted (if required) — Initial ____ Initial ____
(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ____
(3) Mast Inspected Before Raising or Lowering — Initial ____

LEGAL LAND DESCRIPTION

DRILLING CREW PAYROLL DATA — No.

DATE 2001 07 01 02 (Year Month Day) — PROVINCE QUEBEC
WELL NAME & No. BECANCOUR 1 — CAMP ____ NONCAMP ____
COMPANY FORAGAZ INC.
RIG MANAGER BERTRAND HABEL — RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	12		
DERRICKMAN		S-DESROSIERS	12		
MOTORMAN		J-P-LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	8		
DERRICKMAN		J-DESROSIERS	8		
MOTORMAN		J-P-LEVESQUE	8		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

FORM 216m — APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY — Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	1			2001 07 04

OPERATOR	CONTRACTOR	RIG No.
JONEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½"	13.26	E	4¾	3½ IF	1	1	BETLEHEM	DUPLEX	254

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = seconds per litre (s/L); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H₂S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	7⅝"		TAW			11	104.??		105.??

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF — PRESENT LENGTH — MEGAJOULES SINCE LAST CUT — CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE 2001-07-03 & 04 (Year Month Day) — PROVINCE QUEBEC

WELL NAME & No. BECANCOUR 1 — CAMP ____ NONCAMP ____

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL — RIG No. 1

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1.	RIG UP AND TEAR DOWN		
2.	DRILL ACTUAL	11.30	3.45
3.	REAMING		
4.	CORING		
5.	CONDITION MUD & CIRCULATE		.15
6.	TRIPS		7.00
7.	LUBRICATE RIG		
8.	REPAIR RIG		1
9.	CUT OFF DRILLING LINE		
10.	DEVIATION SURVEY	.30	
11.	WIRE LINE LOGS		
12.	RUN CASING & CEMENT		
13.	WAIT ON CEMENT		
14.	NIPPLE UP B.O.P.		
15.	TEST B.O.P.		
16.	DRILL STEM TEST		
17.	PLUG BACK		
18.	SQUEEZE CEMENT		
19.	FISHING		
20.	DIR. WORK		
21.			
22.			
23.			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			m
2	BIT	2	0.23
1	STB RMR	UBS OD	1.10
1	D.C. ID	6" OD	9.20
1	STB RMR	S.T.B. OD	1.19
1	D.C. ID	6" OD	9.32
1	STB RMR	S.T.B. OD	1.19
2		6"	18.??
1		X.O.	0.18
12		4¾"	111.09
	STANDS DP		
12	SINGLES DP		105.65
	KELLY DOWN		
	TOTAL		557.??
	(FORCE) WT. OF STRING		daN

BIT RECORD (B.H.A. 151.85)

BIT No.	2	
SIZE	8½"	
MFG.		
TYPE	M44NF	
JETS mm	OPEN	
SER No.	454922	
DEPTH OUT		
DEPTH IN	356	
TOTAL METRES DRILLED	206	
TOTAL HRS. RUN	10¼	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	4.00	16.00	
DENSITY kg/m³	1.03	1.03	
PRESSURE GRADIENT			
VISCOSITY	27	27	
PV mPa·s / YP Pa	EAU		
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR.-D RM.-R CORE-C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL-S PAR'EL-P COM'D-C
345	556			2001 ???	70	4/5		5½	54			

REDUCED PUMP SPEED

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	547	1¼°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	9.00	2	2	Drill
9.00	9.30	.30	10	Deviation Survey
9.30	19.00	9.30	2	Drill

BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DEROSIERS	12		
MOTORMAN		J-P LAVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.			m
	BIT		.23
1	STB RMR	UBS OD	1.10
1	D.C. ID	6" OD	9.20
1	STB RMR	S.T.B. OD	1.19
1	D.C. ID	6" OD	9.32
1	STB RMR	S.T.B. OD	1.19
2		6"	18.??
1		X.O.	0.18
12		4¾"	111.09
	STANDS DP		
	SINGLES DP		
	KELLY DOWN		
	TOTAL		
	(FORCE) WT. OF STRING		daN

BIT RECORD (B.H.A. 151.85)

BIT No.	2	3
SIZE	8½"	8½
MFG.		
TYPE	M44NF	S-84F
JETS mm	OPEN	
SER No.	454922	57680
DEPTH OUT	556	
DEPTH IN	356	556
TOTAL METRES DRILLED	206	4
TOTAL HRS. RUN	10¼	3¾
COND. 1/8's T/B/GAGE	[illegible]	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	16:00	18:??	
DENSITY kg/m³	1.03	1.03	
PRESSURE GRADIENT			
VISCOSITY	27	27	
PV mPa·s / YP Pa	EAU		
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR.-D RM.-R CORE-C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL-S PAR'EL-P COM'D-C
556	560			2001 ???	75	4/5		5½	54			

REDUCED PUMP SPEED

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	8.00	1.00	8	REPARE MOTEUR SHUT-OFF
8.00	15.00	7.00	6	ENLEVÉ BOP P.O.O.H
15.00	15.15	0.15	5	CIRCULE
15.15	19.00	3.45	2	DRILL

BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DEROSIER	12		
MOTORMAN		J-P LESVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

FORM 2T6m — APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY — Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE Yr. Mo. Day

OPERATOR	CONTRACTOR	RIG No.

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER

O.D. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

E.R.C.B.

	DPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE (Year Month Day) PROVINCE

WELL NAME & No. CAMP NONCAMP

COMPANY

RIG MANAGER RIG No.

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
	RIG UP AND TEAR DOWN		
	DRILL ACTUAL		
	REAMING		
	CORING		
	CONDITION MUD & CIRCULATE		
	TRIPS		
	LUBRICATE RIG		
	REPAIR RIG		
	CUT OFF DRILLING LINE		
	DEVIATION SURVEY		
	WIRE LINE LOGS		
	RUN CASING & CEMENT		
	WAIT ON CEMENT		
	NIPPLE UP B.O.P.		
	TEST B.O.P.		
	DRILL STEM TEST		
	PLUG BACK		
	SQUEEZE CEMENT		
	FISHING		
	DIR. WORK		
	A. PERF'R'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
	TALS		

COMPLETION

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

S. W/CONTR. D.P.
S. W/OPR. D.P.
S. WO/DP
S. STANDBY

TAL DAY WORK

OF DAYS OM SPUD
JULATIVE TATING HRS.
TAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa·s YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min		TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa·s YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min		TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

FIRST TOUR

METRES DRILLED FROM / TO | DR., D RM. R CORE., C | CORE No. | **FORMATION** (SHOW CORE RECOVERY) | ROTARY RPM | (FORCE) WT. ON BIT daN | PUMP PRESS | PUMP No. LINER SIZE | PUMP No. STROKES per min | PUMP No. LINER SIZE | PUMP No. STROKES per min | METHOD RUN SGL - S PART'L - P COM'D - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

METRES DRILLED FROM / TO | DR., D RM. R CORE., C | CORE No. | **FORMATION** (SHOW CORE RECOVERY) | ROTARY RPM | (FORCE) WT. ON BIT daN | PUMP PRESS | PUMP No. LINER SIZE | PUMP No. STROKES per min | PUMP No. LINER SIZE | PUMP No. STROKES per min | METHOD RUN SGL - S PART'L - P COM'D - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT REPORT No.

SE	WELL No.	WELL NUMBER	WATER DEPTH	DATE Yr. Mo. Day
ERATOR		CONTRACTOR		RIG No.
NATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER		

SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H₂S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE Year Month Day PROVINCE

WELL NAME & No. CAMP ____ NONCAMP ____

COMPANY

RIG MANAGER RIG No.

TIME DISTRIBUTION - HOURS

OPERATION	FIRST TOUR	SECOND TOUR
T UP AND AR DOWN		
LL ACTUAL		
AMING		
RING		
NDITION MUD CIRCULATE		
PS		
RICATE RIG		
PAIR RIG		
T OFF LLING LINE		
VIATION SURVEY		
RE LINE LOGS		
N CASING & CEMENT		
T ON CEMENT		
PPLE UP B.O.P.		
ST B.O.P.		
LL STEM TEST		
G BACK		
UEEZE CEMENT		
RING		
R. WORK		
A. PERF'R'TN		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'NL		
G.		
S		

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

W/CONTR. D.P.
W/OPR. D.P.
W/O DP
STANDBY
DAY WORK

F DAYS
SPUD
ULATIVE
TING HRS.
MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB: RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB: RMR OD	m	JETS mm		PV mPa•s YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. MTS TAB/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min		TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa•s YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. MTS TAB/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min		TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

FIRST TOUR

METRES DRILLED

FROM	TO	DR., D RM. R CORE, C	CORE No.

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES N
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

METRES DRILLED

FROM	TO	DR., D RM. R CORE, C	CORE No.

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES
DRILLER				
DERRICKMAN				
MOTORMAN				
FLOORMAN				
FLOORMAN				
FLOORMAN				
LEASEMAN				
CRANE SUPT.				
MECHANIC				
WELDER				
ROUSTABOUT				
ROUSTABOUT				
TRAINEE				
DERRICKMAN (2)				

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE Yr. Mo. Day
OPERATOR		CONTRACTOR		RIG No.
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER		

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H&S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1.	RIG UP AND TEAR DOWN		
2.	DRILL ACTUAL		
3.	REAMING		
4.	CORING		
5.	CONDITION MUD & CIRCULATE		
6.	TRIPS		
7.	LUBRICATE RIG		
8.	REPAIR RIG		
9.	CUT OFF DRILLING LINE		
10.	DEVIATION SURVEY		
11.	WIRE LINE LOGS		
12.	RUN CASING & CEMENT		
13.	WAIT ON CEMENT		
14.	NIPPLE UP B.O.P.		
15.	TEST B.O.P.		
16.	DRILL STEM TEST		
17.	PLUG BACK		
18.	SQUEEZE CEMENT		
19.	FISHING		
20.	DIR. WORK		
21.			
22.			
23.			
COMPLETION	A. PERF'RTN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDITN'L		
	G.		
TOTALS			

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa·s YP Pa	/
	D.C. ID OD	m	SER No.		GEL STR. Pa	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/B's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa·s YP Pa	/
	D.C. ID OD	m	SER No.		GEL STR. Pa	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/B's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA No.

DATE ____ (Year Month Day) PROVINCE ____

WELL NAME & No. ____ CAMP ____ NONCAMP ____

COMPANY ____

RIG MANAGER ____ RIG No. ____

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARL - P COMD - C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARL - P COMD - C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

payé par avance
le 12-11-2001

Foragaz Inc.

CLIENT: Junex Inc.

DATE: 5 novembre 2001

PROJET: Travaux au puits Junex Bécancour No1, pendant la période du 16 juillet au 10 septembre 2001.
Re: Opération de forage

FACTURE: No. 231

#TPS: R121192546
#TVQ: 1003638461

ITEM 1

Démobilisation de la foreuse à la fin du contrat, du 7-au 10 septembre 2001, de Bécancour à Fortierville.
Montant forfaitaire

ITEM 2

Foreuse en opération :

DATE	DESCRIPTION DES TRAVAUX	HEURES FOREUSE
Du 16 juillet au 1 août 01	Fabrication d'une nouvelle tête de rotation. Travail au puits Bécancour No 2	----- -----
2 août 01	Foré jusqu'à 843 m.	12
3 août 01	Foré jusqu'à 855 m.	12
4 août 01	Foré jusqu'à 858 m.	9
6 août 01	Démonté les BOP. Prise de levés orientés.	12
7 août 01	Terminé la prise de levés. Préparation du "mud motor"	12

DATE	DESCRIPTION DES TRAVAUX	HEURES FOREUSE
8 août 01	Entré dans le trou et ressorti le "mud motor"	12
9 août 01	Terminé la sortie du trou et réparé le "mud motor"	12.5
10 août 01	Rentré au fond du trou. Train de tiges coincé.	13.5
11 août 01	Fabrication d'un marteau. Essai de tir pour décoincer l'outil.	12.5
12 août 01	Essai pour sortir le train de tiges. Infructueux.	5
13 août 01	Foreuse en attente.	-
14 août 01	Foreuse en attente.	-
15 août 01	Foreuse en attente.	-
16 août 01	Foreuse en attente.	-
17 août 01	Réception du coffrage de 5 1/2". Entré le coffrage jusqu'à 300 m.	12
18 août 01	Entré le coffrage à 775 m. Mélange de la boue et circulation.	12
19 août 01	Circulation et sortie du trou.	12
20 août 01	Terminé la sortie, 5 sections manquantes.	12
21 août 01	Terminé la mise à terre du coffrage. Installation d'un marteau pneumatique.	12.5
22 août 01	Terminé l'essai avec le marteau et attente de Computalog.	10.5
23 août 01	Attente de Computalog.	-
24 août 01	Effectué le "free point" à 769 m. : réussi.	10.5

DATE	DESCRIPTION DES TRAVAUX	HEURES FOREUSE	TOTAL
25 août 01	Entré dans le trou avec le "fishing tool".	12	
26 août 01	Ré-entrè avec le "fishing tool". Rec : 1 section 5 1/2".	9	
27 août 01	Préparatifs pour entrer avec le coffrage de 7".	12	
28 août 01	Rentré avec l'assemblage jusqu'à 792,09 m.	12	
29 août 01	Nettoyage jusqu'au fond.	12	
30 août 01	Descendu au fond. 25 m de retombées. Circulation.	12	
31 août 01	Terminé la sortie du trou. Installation de l'outil de raccord. Récupéré l'assemblage, à l'exception du coffrage de 7". Arrêt des opérations jusqu'au 5 septembre.	12	
5 sept 01	Terminé la sortie du "mud motor". Rentré dans le trou et rencontré un effrondement à 668 m.	11	
6 sept 01	Circulation. Alésé de 668 m à 672 m. Ressorti le train de tiges du trou.	11.5	

ITEM 3

Service par Foragaz :

1 - Pelle Kubota Kh-28
1,5 mois * 3000 $/mois

2 - Roulotte de chantier
1,5 mois * 450 $/mois

3 - Location et réparation de 2 "fishing tools"

4 - Véhicule + cellulaire + essence
1,5 mois * 850 $/mois

5 - Service de géologie de sonde, 1 500$/mois
à temps partiel

Total item

ITEM 4

Autres services :

1 - Alberta Instrument #R9574
2- Marlex Energy #R12900
3 - Marlex Energy #R13210
4 - Location Bécancour #021217
5 - Location Bécancour #021368
6 - Location Bécancour #021441
7 - H.M. Métal #11887
8 - H.M. Métal #11977
9 - Hydrexcel #103231
10 - Hydrexcel #103289
11 - Reimer #597
12 - Frank M.O'Dowd #01-0188552-00
13 - United Parcel Services, 9 juillet 01

Total item

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE Yr. Mo. Day
OPERATOR		CONTRACTOR		RIG No.
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER		

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE | No. LINES | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE Year Month Day

WELL NAME & No.

COMPANY

RIG MANAGER

PROVINCE

CAMP ____ NONCAMP ____

RIG No.

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS			

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

DRILLING ASSEMBLY (at end of tour) — No.

BIT ____ m

STB RMR OD ____ m

D.C. ID OD ____ m

STB RMR OD ____ m

D.C. ID OD ____ m

STB RMR OD ____ m

STANDS DP ____ m

SINGLES DP ____ m

KELLY DOWN ____ m

TOTAL ____ m

(FORCE) WT. OF STRING ____ daN

BIT RECORD

BIT No. | SIZE | MFG. | TYPE | JETS mm | SER No. | DEPTH OUT | DEPTH IN | TOTAL METRES DRILLED | TOTAL HRS. RUN | COND. 1/8's T/B/GAGE | FLOW RATE m³/min | PRESSURE DROP kPa

MUD RECORD

TIME | DENSITY kg/m³ | PRESSURE GRADIENT | VISCOSITY | PV YP mPa•s Pa | GEL STR. Pa | WATER LOSS cm³ | pH | SOLIDS %

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

SECOND TOUR

DRILLING ASSEMBLY (at end of tour) — No.

BIT ____ m

STB RMR OD ____ m

D.C. ID OD ____ m

STB RMR OD ____ m

D.C. ID OD ____ m

STB RMR OD ____ m

STANDS DP ____ m

SINGLES DP ____ m

KELLY DOWN ____ m

TOTAL ____ m

(FORCE) WT. OF STRING ____ daN

BIT RECORD

BIT No. | SIZE | MFG. | TYPE | JETS mm | SER No. | DEPTH OUT | DEPTH IN | TOTAL METRES DRILLED | TOTAL HRS. RUN | COND. 1/8's T/B/GAGE | FLOW RATE m³/min | PRESSURE DROP kPa

MUD RECORD

TIME | DENSITY kg/m³ | PRESSURE GRADIENT | VISCOSITY | PV YP mPa•s Pa | GEL STR. Pa | WATER LOSS cm³ | pH | SOLIDS %

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

FIRST TOUR

METRES DRILLED FROM | TO

DR., D RM. R CORE..C | CORE No.

2001 07 11

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM | (FORCE) WT. ON BIT daN | PUMP PRESS | PUMP No. LINER SIZE | STROKES per min | PUMP No. LINER SIZE | STROKES per min | METHOD RUN SGL - S PAREL - P COM'D - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM | TO | ELAPSED TIME | CODE No. | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS | BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

METRES DRILLED FROM | TO

DR., D RM. R CORE..C | CORE No.

2001 07 12

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM | (FORCE) WT. ON BIT daN | PUMP PRESS | PUMP No. LINER SIZE | STROKES per min | PUMP No. LINER SIZE | STROKES per min | METHOD RUN SGL - S PAREL - P COM'D - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM | TO | ELAPSED TIME | CODE No. | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS | BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

LLING REPORT FORM

APPROVAL PENDING

APPROVED

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DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE Yr. Mo. Day
OPERATOR		CONTRACTOR		RIG No.
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER		

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

E.P.C.B.
(1) Daily Walk Around Inspection — OPR. Initial ____ R.M. Initial ____
(2) Detailed Inspection-Weekly (using check list) — Initial ____ Initial ____
(3) H&S Signs Posted (if required) — Initial ____ Initial ____
(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ____
(3) Mast Inspected Before Raising or Lowering — Initial ____

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE | No. LINES | METRES SUPP'ED
METRES CUT OFF | PRESENT LENGTH
MEGAJOULES SINCE LAST CUT
CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

DRILLING CREW PAYROLL DATA No.

DATE Year Month Day
PROVINCE
WELL NAME & No.
CAMP ____ NONCAMP ____
COMPANY
RIG MANAGER
RIG No.

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'NL		
	G.		
TOTALS			

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No. DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR	OD	m
D.C. ID	OD	m
STB RMR	OD	m
D.C. ID	OD	m
STB RMR	OD	m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa·s YP Pa	
GEL STR. Pa	
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

SECOND TOUR

No. DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR	OD	m
D.C. ID	OD	m
STB RMR	OD	m
D.C. ID	OD	m
STB RMR	OD	m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa·s YP Pa	
GEL STR. Pa	
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

FIRST TOUR 00:00 TO 12:00

METRES DRILLED

FROM	TO	DRL. D RM. R CORE. C	CORE No.

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARTL - P COMPD - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES N
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

METRES DRILLED

FROM	TO	DRL. D RM. R CORE. C	CORE No.

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARTL - P COMPD - C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES N
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE Yr. Mo. Day

OPERATOR	CONTRACTOR	RIG No.

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

E.R.C.B. OPR. R.M.

	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H&S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE Year Month Day PROVINCE

or

WELL NAME & No. CAMP NONCAMP

COMPANY

RIG MANAGER RIG No.

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1.	RIG UP AND TEAR DOWN		
2.	DRILL ACTUAL		
3.	REAMING		
4.	CORING		
5.	CONDITION MUD & CIRCULATE		
6.	TRIPS		
7.	LUBRICATE RIG		
8.	REPAIR RIG		
9.	CUT OFF DRILLING LINE		
10.	DEVIATION SURVEY		
11.	WIRE LINE LOGS		
12.	RUN CASING & CEMENT		
13.	WAIT ON CEMENT		
14.	NIPPLE UP B.O.P.		
15.	TEST B.O.P.		
16.	DRILL STEM TEST		
17.	PLUG BACK		
18.	SQUEEZE CEMENT		
19.	FISHING		
20.	DIR. WORK		
21.			
22.			
23.			
COMPLETION	A. PERFR'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'NL		
	G.		
TOTALS			

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa•s YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min		TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa•s YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min		TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

FIRST TOUR

METRES DRILLED

FROM	TO	DR., D RM., R CORE., C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

METRES DRILLED

FROM	TO	DR., D RM., R CORE., C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER					
DERRICKMAN					
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS SINCE LAST LOST TIME ACCIDENT

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR #1	1			2001-08-03/04

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½"	13.5	E	4¾"	3½IF	1	1	BETLEHEM	DUPLEX	254

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	12	4³⁰
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		1
6	TRIPS		3³⁰
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION A	PERF'R'T'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
	TOTALS	12	9

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.

HRS. W/OPR. D.P.

HRS. W/O/DP

HRS. STANDBY

TOTAL DAY WORK

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD	
1	BIT 1	0.23 m	BIT No.	4
			SIZE	8½"
1	STB./RMR. NBS OD	1.10 m	MFG.	
1	D.C. ID 6" OD	9.20 m	TYPE	SDGH
1	STB./RMR. STB OD	1.19 m	JETS mm	OPEN
1	D.C. ID 6" OD	9.32 m	SER. No.	L61615
1	STB./RMR. STB OD	1.19 m	DEPTH OUT	
2	6"	18.35	DEPTH IN	598
1	X.O.	0.18	TOTAL METRES DRILLED	257
12	4¾"	111.09	TOTAL HRS. RUN	98.30
	STANDS DP	m	COND. T/B/GAGE	/ /
73	SINGLES DP	703.87	FLOW RATE m³/min	/ /
	KELLY DOWN	m	PRESSURE DROP kPa	
	TOTAL	855.72		
	(FORCE) WT. OF STRING	daN		

MUD RECORD: TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa·s / YP Pa: EAU; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %

MUD & CHEMICALS ADDED: TYPE | AMT. kg | TYPE | AMT. kg

REMARKS

DRILLER

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m
	9⅝"		EAU	

METRES DRILLED FROM	TO	DR. D RM. R CORE C	CORE No.
843	855		

DEVIATION RECORD: DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.
0.00	12.00	12.00	2

FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COMB - C
2001-08-03	65	12/14						

REDUCED PUMP SPEED

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

Drill

BOILER HOURS

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD	
1	BIT 1	0.23 m	BIT No.	4
			SIZE	8½"
1	STB./RMR. NBS OD	1.10 m	MFG.	
1	D.C. ID 6" OD	9.20 m	TYPE	SDGH
1	STB./RMR. STB OD	1.19 m	JETS mm	OPEN
1	D.C. ID 6" OD	9.32 m	SER. No.	L61615
1	STB./RMR. STB OD	1.19 m	DEPTH OUT	
2	6"	18.35	DEPTH IN	598
1	X.O.	0.18	TOTAL METRES DRILLED	260
12	4¾"	111.09	TOTAL HRS. RUN	103
	STANDS DP	m	COND. T/B/GAGE	/ /
74	SINGLES DP	713.24 m	FLOW RATE m³/min	/ /
	KELLY DOWN	m	PRESSURE DROP kPa	
	TOTAL	865.09 m		
	(FORCE) WT. OF STRING	daN		

MUD RECORD: TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa·s / YP Pa: EAU; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %

MUD & CHEMICALS ADDED: TYPE | AMT. kg | TYPE | AMT. kg

REMARKS: CLOSE PIPE RAME à LITTLE BIT FOR SECURITY.

Au départ (Bottom up) 20 milles RPM.

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE C	CORE No.
855	858.20		

DEVIATION RECORD: DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.
7.00	11.30	4.30	2
11.30	12.30	1.00	5
12.30	16.00	3.30	6

FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COMB - C
	65	11/12						

REDUCED PUMP SPEED

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

Drill

Circulate

Sortir 3½" pipe du trou

BOILER HOURS

LEGEND

All lengths expressed in metres to two decimal places

Metric expressions:
- mud density = kilogram per cubic metre (kg/m³)
- pump-stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = seconds per litre (s/L)
- flow rate = cubic metre per minute (m³ / min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial ___ R.M. Initial ___
(2) Detailed Inspection-Weekly (using check list) — OPR. Initial ___ R.M. Initial ___
(3) H₂S Signs Posted (if required) — OPR. Initial ___ R.M. Initial ___

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ___
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — R.M. Initial ___
(3) Mast Inspected Before Raising or Lowering — R.M. Initial ___

LEGAL LAND DESCRIPTION

GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	11	104.35		105.35

WIRE LINE RECORD — REEL No.

SIZE | No. LINES | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE 2001-08-03 & 04 (Year Month Day) — PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 — CAMP ___ NONCAMP ___

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL — RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJ. YES
DRILLER		B. HABEL	12	
DERRICKMAN		J. DESROSIERS	12	
MOTORMAN		J-P. LEVESQUE	12	
FLOORMAN				
FLOORMAN				
FLOORMAN				
LEASEMAN				
CRANE SUPT.				
MECHANIC				
WELDER				
ROUSTABOUT				
ROUSTABOUT				
TRAINEE				
DERRICKMAN (2)				

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJ. YES
DRILLER		B. HABEL	9	
DERRICKMAN		J. DESROSIERS	9	
MOTORMAN		J-P. LEVESQUE	9	
FLOORMAN				
FLOORMAN				
FLOORMAN				
LEASEMAN				
CRANE SUPT.				
MECHANIC				
WELDER				
ROUSTABOUT				
ROUSTABOUT				
TRAINEE				
DERRICKMAN (2)				

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BEAUCOUR #1	1			2001-08-07
OPERATOR		**CONTRACTOR**		**RIG No.**
DONEX		FORAGAZ INC.		1
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S RIG MANAGER**		
		Bertrand Habel		

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
3½	13.5	E	4¾"	3½ IF	1	1	BETHLEHEM	DUPLEX	254

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	2	
7	LUBRICATE RIG		
8	REPAIR RIG	4	4
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	6	3
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Preventer installation		5
22	Set up		1
23			
	A. PERF'RTN		
	B. TBG TRIPS		
COMPLETION	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'NL		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. IN CONTR. D.P.
HRS. W/OPR. D.P.
HRS. W/O D.P.
HRS. STANDBY
TOTAL DAY WORK

No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.
TOTAL MUD COST

DRILLING ASSEMBLY (at end of tour) — BIT RECORD — MUD RECORD

BIT m
STB RMR OD m
D.C. ID OD m
STB RMR OD m
D.C. ID OD m
STB RMR OD m
STANDS DP m
SINGLES DP m
KELLY DOWN m
TOTAL m
(FORCE) WT. OF STRING daN

BIT No.
SIZE
MFG.
TYPE
JETS 32nds
SER No.
DEPTH OUT
DEPTH IN
TOTAL METRES DRILLED
TOTAL HRS. RUN
COND. 1/8's T/B/GAGE
FLOW RATE l/min
PRESSURE DROP kPa

MUD RECORD: TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa·s / YP Pa; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %

MUD & CHEMICALS ADDED: TYPE | AMT. kg | TYPE | AMT. kg

REMARKS CHANGER L'HUILE DE LA FOREUSE + FILTER ET FILTER A PRESTONE.

DRILLER

DRILLING ASSEMBLY (at end of tour) — BIT RECORD — MUD RECORD

(same layout as above)

REMARKS

DRILLER

FIRST TOUR

METRES DRILLED

FROM	TO	DR. D RN. R CORE C	CORE No.

DEVIATION RECORD

DEPTH	DEV.

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.
7.00	9.00	2.00	6
9.00	13.00	4.00	8
13.00	19.00	6.00	10

SECOND TOUR

METRES DRILLED

FROM	TO	DR. D RN. R CORE C	CORE No.

DEVIATION RECORD

DEPTH	DEV.

TIME LOG

FROM	TO	ELAPSED TIME	CODE
7.00	10.00	3	10
10.00	13.00	3	8
13.00	14.00	1	20
14.00	19.00	5	21

LEGEND

All lengths exp

Metric expressions:

mud density =
pump-stroke le
weight of strin
weight on bit:
linear mass =
viscosity = sec

E.R.C.B.
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using check list)
(3) H₂S Signs Posted (if required)

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m
	9⅝		ERW	

ssed in metres to two decimal places

ogram per cubic metre (kg/m³)
th = millimetre (mm)
: decanewton (daN)
icator will record decanewton
ogram per metre (kg/m)
d per litre (s/L)

flow rate = cubic metre per minute (m³ / min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

OPR.	R.M.	
Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)
Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)
Initial	Initial	(3) Mast Inspected Before Raising or Lowering

R.M. Initial Initial

WIRE LINE RECORD — REEL No.

GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG HD.	SET AT
	11	104.35		105.35

SIZE | No. LINES | METRES SLIPPED
METRES CUT OFF | PRESENT LENGTH
MEGAJOULES SINCE LAST CUT
CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE 2001 - 08 - 06 & 07 (Year Month)
WELL NAME & No. BEAUCOUR #1
PROVINCE QUÉBEC
CAMP ____ NONCAMP ____
COMPANY FORAGAZ INC.
RIG MANAGER BERTRAND HABEL
RIG No. 7

FORMATION 2000 [illegible] 06

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAREL - P COM'D - C
	REDUCED PUMP SPEED						

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS — BOILER HOURS

FINIR DESARTIR OU TROUS
ENLEVER LES B.O.P.
DÉMANCHER (HEAD ROTARY)
PREPARER POUR PRENDRE TEST
DESCENDRE DANS LE TROU
POUR PRENDRE LA POSITION & ORIENTATION
2 FOIS A TOUS LE 50 m. ET 1 FOIS A 200 m.
TOUT LES 50 m. DERNIÈRE FOIS
A 438 jusqu'à 338 à Tous les
10 mètre.

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.
DRILLER		B. HABEL	12
DERRICKMAN		S. DESROSIERS	12
MOTORMAN		J-P LEVESQUE	12
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			
CRANE SUPT.			
MECHANIC			
WELDER			
ROUSTABOUT			
ROUSTABOUT			
TRAINEE			
DERRICKMAN (2)			

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

FORMATION 2000/[illegible]08-07

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAREL - P COM'D - C
	REDUCED PUMP SPEED						

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS — BOILER HOURS

DESCENDRE DANS le trou prendre test
Remonter tête de rotation
aller passer le back up.
Préparer mud moteur

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS
DRILLER		B. HABEL	12
DERRICKMAN		S. DESROSIERS	12
MOTORMAN		J-P LEVESQUE	12
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			
CRANE SUPT.			
MECHANIC			
WELDER			
ROUSTABOUT			
ROUSTABOUT			
TRAINEE			
DERRICKMAN (2)			

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

FORM 2T6m — APPROVAL PENDING — APPROVED — Revised December 1986 — COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — APPROV — COPYRI 1977 JANU

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
BECANCOUR #1	1			2001-08-8-9

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	6	4
7	LUBRICATE RIG		
8	REPAIR RIG		5
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	mud moteur	3	3.30
22	[illegible] Bit	3	
23			
COMPLETION	A. PERFORATING		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'NL		
	G.		
TOTALS		12	

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.

HRS. W/OPR. D.P.

HRS. W/O/DP

HRS. STANDBY

TOTAL DAY WORK

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa·s / YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN		MUD & CHEMICALS ADDED (TYPE / AMT. kg / TYPE / AMT. kg)	
	STANDS DP	m	COND. 1/8's T/B/GAGE			
	SINGLES DP	m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.

FORMATION: 2001-08-08

ROTARY RPM	(FORCE) WT ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	10.00	3	21	Travailler après mud moteur avec Jean-Fell
10.00	14.00	4	6	Descendre dans le trous.
14.00	17.00	3	22	enplug mud moteur
17.00	19.00	2	6	ressortir du trous.

BOILER HOURS

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa·s / YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN		MUD & CHEMICALS ADDED (TYPE / AMT. kg / TYPE / AMT. kg)	
	STANDS DP	m	COND. 1/8's T/B/GAGE			
	SINGLES DP	m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.

FORMATION: 2001-08-09

ROTARY RPM	(FORCE) WT ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	12.00	5	8	Repair "POWER TONG"
12.00	16.00	4	6	Sortir du trous
16.00	19.30	3.30	21	demander Mud Moteur.

BOILER HOURS

LEGEND

Metric expressions: All lengths expressed in metres to two decimal places.

mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = seconds per litre (s/L)

flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using check list)
(3) H₂S Signs Posted (if required)

OPR. Initial / R.M. Initial

(1) Rig Site Health and Safety Meeting (one meeting/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)
(3) Mast Inspected Before Raising or Lowering

R.M. Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD	SET AT

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE: 2001-08- 8 et 9 (Year Month Day) — PROVINCE: Québec

WELL NAME & No.: BECANCOUR #1 — CAMP ____ NONCAMP ____

COMPANY: FORAGAZ INC.

RIG MANAGER: Bertrand HABEL — RIG No.: 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.		INJURIES YES	INJURIES NO
DRILLER		B. HABEL	12			
DERRICKMAN		J. DESROSIERS	12			
MOTORMAN		J-P-LEVESQUE	12			
FLOORMAN						
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.		INJURIES YES	INJURIES NO
DRILLER		B. HABEL	12½			
DERRICKMAN		J-DESROSIERS	12½			
MOTORMAN		J-P-LEVESQUE	12½			
FLOORMAN						
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY — Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR #1	1		2001-08	6 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

- mud density = kilogram per cubic metre (kg/m³)
- pump-stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = second per litre (s/L)
- flow rate = cubic metre per minute (m³ / min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using check list)
(3) H₂S Signs Posted (if required)

OPR. Initial / Initial / Initial — R.M. Initial / Initial / Initial

(1) Rig Site Health and Safety Meeting (one meeting/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)
(3) Mast Inspected Before Raising or Lowering

R.M. Initial / Initial / Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD — REEL No. — SIZE — No. LINES — METRES SLIPPED — METRES CUT OFF — PRESENT LENGTH — MEGAJOULES SINCE LAST CUT — CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE 2001-08-10 et 11 (Year Month Day) — PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 — CAMP ___ NONCAMP ___

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL — RIG No. 1

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	3	
6	TRIPS	7	
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	UNPLUG	3½	12½
22			
23			
COMPLETION	A. PERF'RT'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		13½	12½

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

DRILLING ASSEMBLY (at end of tour): BIT, STB RMR OD, D.C. ID OD, STB RMR OD, D.C. ID OD, STB RMR OD, STANDS DP, SINGLES DP, KELLY DOWN, TOTAL, (FORCE) WT. OF STRING daN

BIT RECORD: BIT No., SIZE, MFG., TYPE, JETS mm, SER No., DEPTH OUT, DEPTH IN, TOTAL METRES DRILLED, TOTAL HRS. RUN, COND. 1/8's T/B/GAGE, FLOW RATE m³/min, PRESSURE DROP kPa

MUD RECORD: TIME, DENSITY kg/m³, PRESSURE GRADIENT, VISCOSITY, PV mPa•s YP Pa, GEL STR. Pa, WATER LOSS cm³, pH, SOLIDS %; MUD & CHEMICALS ADDED: TYPE, AMT. kg, TYPE, AMT. kg

REMARKS

DRILLER

METRES DRILLED: FROM, TO, DR. D RM. R CORE. C, CORE No.

FORMATION (SHOW CORE RECOVERY): 2001-08-10

ROTARY RPM — (FORCE) WT. ON BIT daN — PUMP PRESS — PUMP No. LINER SIZE / STROKES per min — PUMP No. LINER SIZE / STROKES per min — METHOD RUN SGL - S PARTEL - P COM'D - C — REDUCED PUMP SPEED

DEVIATION RECORD: DEPTH, DEV., DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	14.00	7.00	6	DESCENDRE DANS LE TROUS ET FAIT TRAVAILLER MUD MOTEUR EN DESCENDANT.
~~11.00~~	~~17.00~~			
14.00	17.00	3.00	5	CIRCULATE
17.00	20.30	3.20	21	ESSAYER DE DEPRENDRE LES RODS DU TROUS.

BOILER HOURS

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	13½		
DERRICKMAN		J-DESROSIERS	13½		
MOTORMAN		J-P-LEVESQUE	13½		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

DRILLING ASSEMBLY (at end of tour): BIT, STB RMR OD, D.C. ID OD, STB RMR OD, D.C. ID OD, STB RMR OD, STANDS DP, SINGLES DP, KELLY DOWN, TOTAL, (FORCE) WT. OF STRING daN

BIT RECORD: BIT No., SIZE, MFG., TYPE, JETS mm, SER No., DEPTH OUT, DEPTH IN, TOTAL METRES DRILLED, TOTAL HRS. RUN, COND. 1/8's T/B/GAGE, FLOW RATE m³/min, PRESSURE DROP kPa

MUD RECORD: TIME, DENSITY kg/m³, PRESSURE GRADIENT, VISCOSITY, PV mPa•s YP Pa, GEL STR. Pa, WATER LOSS cm³, pH, SOLIDS %; MUD & CHEMICALS ADDED: TYPE, AMT. kg, TYPE, AMT. kg

REMARKS

DRILLER

METRES DRILLED: FROM, TO, DR. D RM. R CORE. C, CORE No.

FORMATION (SHOW CORE RECOVERY): 2001-08-11

ROTARY RPM — (FORCE) WT. ON BIT daN — PUMP PRESS — PUMP No. LINER SIZE / STROKES per min — PUMP No. LINER SIZE / STROKES per min — METHOD RUN SGL - S PARTEL - P COM'D - C — REDUCED PUMP SPEED

DEVIATION RECORD: DEPTH, DEV., DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	19.30	12½	21	FABRIQUER UN MARTEAU POUR ESSAYER DE SORTIR DU TROU. RÔGE PRIS DANS LE TROUS.

BOILER HOURS

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	12½		
DERRICKMAN		J-DESROSIERS	12½		
MOTORMAN		J-P-LEVESQUE	12½		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR #1	1			2001-08-12 Yr Mo Day

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	UNLOAD	5	
22	JACK-UP		
23			
COMPLETION	A. PERF'RTN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'NL		
	G		
TOTALS		5	

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/OP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/B's T/B/GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa•s	YP Pa	/	/	/
GEL STR. Pa		/	/	/
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/B's T/B/GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa•s	YP Pa	/	/	/
GEL STR. Pa		/	/	/
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

LES RODS ONT LEVER DE 1'PIEDS.

DRILLER

LEGEND

All lengths exp… sed in metres to two decimal places.

Metric expressions: mud density = … ogram per cubic metre (kg/m³); pump stroke l… th = millimetre (mm); weight of strin… decanewton (daN); weight on bit: … licator will record decanewton; linear mass = … ogram per metre (kg/m); viscosity = sec… d per litre (s/L)

flow rate = cubic metre per minute (m³ / min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using check list)
(3) H₂S Signs Posted (if required)

OPR.	R.M.
Initial	Initial
Initial	Initial
Initial	Initial

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — R.M. Initial
(3) Mast Inspected Before Raising or Lowering — R.M. Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT

WIRE LINE RECORD

REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.

DEVIATION RECORD

DEPTH	DEV.

FORMATION

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARTL - P COMD - C
REDUCED PUMP SPEED							

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.
9.00	13.00	5.00	21

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

ESSAYER DE SORTIR LES RODS DU TROU.

BOILER HOURS

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.

DEVIATION RECORD

DEPTH	DEV.

FORMATION

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARTL - P COMD - C
REDUCED PUMP SPEED							

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.
7.00	17.00	10	22

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FINIR D'INSTALLER "JACK-UP"
PREPARER POUR ST-BAR NAGÉ
Becancour #2

BOILER HOURS

No.

DRILLING CREW PAYROLL DATA

DATE 2001-08-12 Year Month Day

PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1

CAMP ____ NONCAMP ____

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL

RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B. HABEL	5		
DERRICKMAN		J. DESROSIERS	5		
MOTORMAN		J-P LEVESQUE	5		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B. HABEL	10		
DERRICKMAN		J. DESROSIERS	10		
MOTORMAN		J-P LEVESQUE	10		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
~~ST-BARNABE~~ BECANCOUR	#1	1	2001-08	14 15

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE TH/READ	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1.	RIG UP AND TEAR DOWN		
2.	DRILL ACTUAL		
3.	REAMING		
4.	CORING		
5.	CONDITION MUD & CIRCULATE		
6.	TRIPS		
7.	LUBRICATE RIG		
8.	REPAIR RIG		
9.	CUT OFF DRILLING LINE		
10.	DEVIATION SURVEY		
11.	WIRE LINE LOGS		
12.	RUN CASING & CEMENT		
13.	WAIT ON CEMENT		
14.	NIPPLE UP B.O.P.		
15.	TEST B.O.P.		
16.	DRILL STEM TEST		
17.	PLUG BACK		
18.	SQUEEZE CEMENT		
19.	FISHING		
20.	DIR. WORK		
	~~ST-BARNABE~~	12.30	12.30
22.			
23.			
COMPLETION	A. PERF'RTN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'L		
	G.		
TOTALS		12.30	12.30

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. W/O/D.P.		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

DRILLING ASSEMBLY (at end of tour) — BIT RECORD — MUD RECORD

BIT ____ m

STB RMR OD ____ m
D.C. ID OD ____ m
STB RMR OD ____ m
D.C. ID OD ____ m
STB RMR OD ____ m

STANDS DP ____ m
SINGLES DP ____ m
KELLY DOWN ____ m
TOTAL ____ m
(FORCE) WT. OF STRING ____ daN

BIT RECORD	
BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	/ /
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD			
TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s	YP Pa	/	/
GEL STR. Pa		/	/
WATER LOSS cm³			
pH			
SOLIDS %			
MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS REPRIS 11" SUR LES TIGES.

DRILLER

FIRST TOUR

DRILLING ASSEMBLY (at end of tour) — BIT RECORD — MUD RECORD

BIT ____ m

STB RMR OD ____ m
D.C. ID OD ____ m
STB RMR OD ____ m
D.C. ID OD ____ m
STB RMR 11 OD ____ m

STANDS DP ____ m
SINGLES DP ____ m
KELLY DOWN ____ m
TOTAL ____ m
(FORCE) WT. OF STRING ____ daN

BIT RECORD	
BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	/ /
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD			
TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s	YP Pa	/	/
GEL STR. Pa		/	/
WATER LOSS cm³			
pH			
SOLIDS %			
MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

SECOND TOUR

LEGEND

All lengths exp… sed in metres to two decimal places.

Metric expressions:
- mud density = …gram per cubic metre (kg/m³)
- pump-stroke l… = …ith = millimetre (mm)
- weight of strin… = decanewton (daN)
- weight on bit: …dicator will record decanewton
- linear mass = …gram per metre (kg/m)
- viscosity = 98… …per litre (s/L)

flow rate = cubic metre per minute (m³ / min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.P.C.B.
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using check list)
(3) H₂S Signs Posted (if required)

OPR.	R.M.
Initial	Initial
Initial	Initial
Initial	Initial

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — Initial / Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial / Initial
(3) Mast Inspected Before Raising or Lowering — Initial / Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m

GRADE	No. JOINTS	TOTAL LENGTH	PKR. TO CSG. HD.	SET AT

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF ____ PRESENT LENGTH ____

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.

DEVIATION RECORD

DEPTH	DEV.

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARTEL - P COMTD - C

REDUCED PUMP SPEED

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.
7.00	19.30	12.30	21

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS — BOILER HOURS

AMENER FOREUSE + TIGE + PELE KUBOTA AU SITE PREPARER SITE, INSTALLER FOREUSE. POUR CAROTER

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.
0	55		

DEVIATION RECORD

DEPTH	DEV.

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARTEL - P COMTD - C

REDUCED PUMP SPEED

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.
7.00	19.30	12.30	21

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS — BOILER HOURS

DRILLER O A 50 SANS "RECOVERY" ENSUITE DESCENDU "CORBARREL" ET COMMENCER A FORER. CAROTTE

DRILLING CREW PAYROLL DATA

No.

DATE 2001-08 14 15 (Year Month Day)

PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1

CAMP ____ NONCAMP ____

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL

RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B. HABEL	12.30		
DERRICKMAN		S-DESROSIERS	12.30		
MOTORMAN		J-P LEVESQUE	12.30		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		R. HABEL	12.30		
DERRICKMAN		J-DESROSIERS	12.30		
MOTORMAN		J-P LEVESQUE	12.30		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR ST-BARNABE #1				2001-08- [illegible]

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		1
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING ~~& CEMENT~~		3
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	~~TEST~~ B.O.P.		3
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	ST-BARNABE	12.30	
22	UNLOAD		1.30
23	MASSE ET SLIP	~~12~~	3.30
COMPLETION	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12.30	

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK

No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
	STB RMR OD	m	SIZE		DENSITY kg/m³	
	D.C. ID OD	m	MFG.		PRESSURE GRADIENT	
	STB RMR OD	m	TYPE		VISCOSITY	
	D.C. ID OD	m	JETS mm		PV mPa•s / YP Pa	
	STB RMR OD	m	SER No.		GEL STR. Pa	
			DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
	STB RMR OD	m	SIZE		DENSITY kg/m³	
	D.C. ID OD	m	MFG.		PRESSURE GRADIENT	
	STB RMR OD	m	TYPE		VISCOSITY	
	D.C. ID OD	m	JETS mm		PV mPa•s / YP Pa	
	STB RMR OD	m	SER No.		GEL STR. Pa	
			DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min		BENTONITE	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: BENTONITE 11 POCHES DE 100 LBS

DRILLER

FORM 2T6m — APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY — Revised December 1986

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = seconds per litre (s/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa•s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial ____ R.M. Initial ____
(2) Detailed Inspection-Weekly (using check list) — Initial ____ Initial ____
(3) H₂S Signs Posted (if required) — Initial ____ Initial ____

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ____
(3) Mast Inspected Before Raising or Lowering — Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF — PRESENT LENGTH
MEGAJOULES SINCE LAST CUT
CUMULATIVE MEGAJOULES

FIRST TOUR

METRES DRILLED FROM	TO	DR. D / RM. R / CORE. C	CORE No.
55	60		

FORMATION (SHOW CORE RECOVERY): 2001-08-16

ROTARY RPM — (FORCE) WT. ON BIT daN — PUMP PRESS — PUMP No. LINER SIZE / STROKES per min — PUMP No. LINER SIZE / STROKES per min — METHOD RUN SGL - S PARTEL - P COM'D - C — REDUCED PUMP SPEED

DEVIATION RECORD: DEPTH / DEV / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	19.30	12.30	21	CAROTER JUSQU'A 60M ENSUITE CASSER DANS LE TROUS A 30"

BOILER HOURS

SECOND TOUR

METRES DRILLED FROM	TO	DR. D / RM. R / CORE. C	CORE No.

FORMATION (SHOW CORE RECOVERY): 2001-08-17

DEVIATION RECORD: DEPTH / DEV / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	8.20	1.20	22	DECHARGER CASSING
8.20	9.30	1.00	23	ENLEVER MASSUE.
9.30	12.00	2.30	23	ENLEVER SLIP
12.00	13.00	1.00	8	REPAIR HYDRAULIQUE HOSE
13.00	16.00	3.00	15	ENLEVER B.O.P. RIG UP CASSING.
16.00	19.00	3.00	12	RUN CASSING JUSQU'A 300 m.

BOILER HOURS

DRILLING CREW PAYROLL DATA

No.

DATE 2001-08-16 & 17 (Year Month Day) — PROVINCE QUEBEC
WELL NAME & No. ST-BARNABE #3 — CAMP ____ NONCAMP ____
COMPANY FORAGAZ INC
RIG MANAGER BERTRAND HABEL — RIG No. ____

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	12.30		
DERRICKMAN		J-DESROSIERS	12.30		
MOTORMAN		J.P. LEVESQUE	12.30		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	12		
DERRICKMAN		J. DESROSIERS	12		
MOTORMAN		J.P. LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
BECANCOUR #1	1			2001-08-18&19

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: (signature)

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	7	
6	TRIPS		8 30
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT	5	3 30
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION A	PERF'RT'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS		12	

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.

HRS. W/OPR. D.P.

HRS. W/O/P

HRS. STANDBY

TOTAL DAY WORK

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

DRILLING ASSEMBLY (at end of tour): BIT; STB RMR OD; D.C. ID OD; STB RMR OD; D.C. ID OD; STB RMR OD; STANDS DP; SINGLES DP; KELLY DOWN; TOTAL; (FORCE) WT. OF STRING daN

BIT RECORD: BIT No.; SIZE; MFG.; TYPE; JETS mm; SER No.; DEPTH OUT; DEPTH IN; TOTAL METRES DRILLED; TOTAL HRS. RUN; COND. 1/8's T/B/GAGE; FLOW RATE m³/min; PRESSURE DROP kPa

MUD RECORD: TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa·s YP Pa; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
BENTONITE			

REMARKS: BENTONITE 29 POCHES DE 100 LBS.

DRILLER

METRES DRILLED — FROM | TO | DR. D RM. R CORE. C | CORE No.

DEVIATION RECORD — DEPTH | DEV. | DIRECTION

FORMATION: 2001-08-18

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	12:00	5	12	RUN CASING JUSQU'A 600 m.
12:00	19:00	7	5	CIRCULATE AVEC CASSING JUSQU'A 778 m. AVEC BENTONITE

SECOND TOUR

DRILLING ASSEMBLY (at end of tour) / BIT RECORD / MUD RECORD (as above)

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
BENTONITE			

REMARKS: BENTONITE 10 POCHES DE 100 LBS.

DRILLER

FORMATION: 2001-08-19

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	11:30	3:30	5	CIRCULATE AVEC CASSING 5 1/2"
11:30	19:00	8:30	6	SORTIR DU TROUS

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (s/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.: (1) Daily Walk Around Inspection (2) Detailed Inspection-Weekly (using check list) (3) H₂S Signs Posted (if required)

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) (2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) (3) Mast Inspected Before Raising or Lowering

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER: OUTSIDE DIAMETER | INSIDE DIAMETER | MAKE | kg/m | GRADE | No. JOINTS | TOTAL LENGTH | RKB. TO CSG. HD. | SET AT

WIRE LINE RECORD — REEL No.; SIZE; No. LINES; METRES SLIPPED; METRES CUT OFF; PRESENT LENGTH; MEGAJOULES SINCE LAST CUT; CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE: 2001-08-18&19 — PROVINCE: QUEBEC

WELL NAME & No.: BECANCOUR #1 — CAMP ___ NONCAMP ___

COMPANY: FORAGAZ INC.

RIG MANAGER: BERTRAND HABEL — RIG No. 7

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	12		
DERRICKMAN		J-DESROSIERS	12		
MOTORMAN		J-P-LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	12		
DERRICKMAN		J-DESROSIERS	12		
MOTORMAN		J-P-LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

FORM 2T6m — APPROVAL PENDING — CAODC APPROVED — Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

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APPROVAL PENDING — CAODC APPROVED

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No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	#1 / 1			2001-08-20 / 21

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND — All lengths exp… ssed in metres to two decimal places.

Metric expressions: mud density = …gram per cubic metre (kg/m³); pump-stroke l… …th = millimetre (mm); weight of strin… …decanewton (daN); weight on bit: …icator will record decanewton; linear mass = …gram per metre (kg/m); viscosity = sec… …d per litre (s/L)

flow rate = cubic metre per minute (m³ / min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa•s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using check list)
(3) H&S Signs Posted (if required)

	OPR.	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial	Initial
(3) Mast Inspected Before Raising or Lowering	Initial	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER

GRADE	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

No.

DRILLING CREW PAYROLL DATA

DATE 2001-08-20 & 21 (Year / Month / Day) — PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 — CAMP ____ NONCAMP ____

COMPANY FORAGAZ INC

RIG MANAGER BERTRAND HABEL — RIG No. 1

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	1	
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT	9.30	1.30
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	METEOR GM	2	
22	ST-BARNABE	5.30	
23	MARTEAU		11
	A. PERF'R'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'NL		
	G.		
	TOTALS	12	12.30

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. W/O DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
	BIT	m	BIT No.		TIME				
			SIZE		DENSITY kg/m³				
	STB RMR OD	m	MFG.		PRESSURE GRADIENT				
	D.C. ID OD	m	TYPE		VISCOSITY				
	STB RMR OD	m	JETS mm		PV mPa•s / YP Pa	/	/	/	
	D.C. ID OD	m	SER No.		GEL STR. Pa	/	/	/	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³				
			DEPTH IN		pH				
			TOTAL METRES DRILLED		SOLIDS %				
			TOTAL HRS. RUN		MUD & CHEMICALS ADDED				
	STANDS DP	m	COND. T/B/GAGE		TYPE	AMT. kg	TYPE	AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/	/	/			
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS: BERTRAND ~~HABEL~~ ALLER AVEC FABIEN ST-SAMUEL à VERIFIER POUR COMPRESSEUR

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
	BIT	m	BIT No.		TIME				
			SIZE		DENSITY kg/m³				
	STB RMR OD	m	MFG.		PRESSURE GRADIENT				
	D.C. ID OD	m	TYPE		VISCOSITY				
	STB RMR OD	m	JETS mm		PV mPa•s / YP Pa	/	/	/	
	D.C. ID OD	m	SER No.		GEL STR. Pa	/	/	/	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³				
			DEPTH IN		pH				
			TOTAL METRES DRILLED		SOLIDS %				
			TOTAL HRS. RUN		MUD & CHEMICALS ADDED				
	STANDS DP	m	COND. T/B/GAGE		TYPE	AMT. kg	TYPE	AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/	/	/			
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS

DRILLER

FIRST TOUR

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.

DEVIATION RECORD

DEPTH	DEV.

FORMATION (STRATA PENETRATED / RECOVERED) 2001-08-20

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAREL - P COM'D - C
REDUCED PUMP SPEED							

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.
7.00	8.00	1	6
8.00	10.00	2	21
10.00	11.30	1.30	12
11.30	12.00	.30	22
12.00	17.00	5.00	22
17.00	19.00	2.00	12

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS — BOILER HOURS

FINIR DESORTIR CASING 5 1/2"
MANQUE 5 BARS
TRAVAILLER APRÈS MOTEUR GM.
RAMASSER AUTOUR DE LA DRILL.
RIG-UP LAY DOWN CASING.
S.D. S.P.L., RAMASSER SOCK POUR
ST-BARNABE, FISHING.
ALLER FISHER H.Q.
LAY DOWN CASING

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B. HABEL	12		
DERRICKMAN		J. DESROSIERS	12		
MOTORMAN		J-P LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.

DEVIATION RECORD

DEPTH	DEV.

FORMATION (STRATA PENETRATED / RECOVERED) 2001-08-21

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PAREL - P COM'D - C
REDUCED PUMP SPEED							

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.
7.00	8.30	1.30	12
8.30	14.30	6.00	23
14.30	19.30	5.00	23

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS — BOILER HOURS

FINIR LAY DOWN CASING.
PREPARER POUR INSTALLER MARTEAU
ET ALLER CHERCHER MARTEAU.
T/INSTALLER MARTEAU ET MARTELER.

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B. HABEL	12.30		
DERRICKMAN		J-DESROSIERS	12.30		
MOTORMAN		J-P LEVESQUE	12.30		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED — COPYRIGHT 1977 JANUARY

No.

DAILY DRILLING REPORT   REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
BECANCOUR #1 / ST-BARNABE #3				2001-08-22 / 23

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	MARTEAU		
22			
23	ST-BARNA[BE]		
COMPLETION A	PERF'R'TN		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS			

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

DRILLING ASSEMBLY (at end of tour): BIT; STB RMR OD; DC ID OD; STB RMR OD; DC ID OD; STB RMR OD; STANDS DP; SINGLES DP; KELLY DOWN; TOTAL; (FORCE) WT. OF STRING daN

BIT RECORD: BIT No.; SIZE; MFG.; TYPE; JETS mm; SER No.; DEPTH OUT; DEPTH IN; TOTAL METRES DRILLED; TOTAL HRS. RUN; COND. T/B/GAGE; FLOW RATE m³/min; PRESSURE DROP kPa

MUD RECORD: TIME; DENSITY kg/m³; PRESSURE GRADIENT; VISCOSITY; PV mPa·s YP Pa; GEL STR. Pa; WATER LOSS cm³; pH; SOLIDS %; MUD & CHEMICALS ADDED (TYPE, AMT. kg)

REMARKS: BERTRAND ALLER SHOP POUR RAMASSER "OVER SHOT"

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	11.00	4	21	ESSAYER DE DEPRENDRE LES RODS DU TROUS AVEC MARTEAU.
11.00	13.00	2	22	REPARER MARTEAU BERTRAND EST ALLER PORTER MARTEAU.
13.00	17.30	4.30		TRAVAILLER AUTOUR DE LA DRILL

FORMATION (SHOW CORE RECOVERY): 2001-08-22

SECOND TOUR

DRILLING ASSEMBLY / BIT RECORD / MUD RECORD (blank)

REMARKS:

DRILLER

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	20.00	13.00	23	ALLER A ST-BARNABE POUR "FISHER" LE RODS H.Q. VEULLE PAS VENIR

FORMATION (SHOW CORE RECOVERY): 2001-08-23

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (S/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.: (1) Daily Walk Around Inspection; (2) Detailed Inspection-Weekly (using check list); (3) H₂S Signs Posted (if required) — OPR. Initial / R.M. Initial

(1) Rig Site Health and Safety Meeting (one meeting/crew/month); (2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month); (3) Mast Inspected Before Raising or Lowering — R.M. Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER: OUTSIDE DIAMETER / INSIDE DIAMETER / MAKE / kg/m / GRADE / No. JOINTS / TOTAL LENGTH / RKB. TO CSG. HD. / SET AT

WIRE LINE RECORD: REEL No.; SIZE; No. LINES; METRES SLIPPED; METRES CUT OFF; PRESENT LENGTH; MEGAJOULES SINCE LAST CUT; CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE: 2001-08-22 & 23   PROVINCE: QUEBEC
WELL NAME & No.: BECANCOUR #1   CAMP ____ NONCAMP ____
COMPANY: FORAGAZ INC.
RIG MANAGER: B. HABEL   RIG No. ____

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	13		
DERRICKMAN		S-DESROSIERS	10½		
MOTORMAN		J-P LEVESQUE	10½		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	13		
DERRICKMAN		S-DESROSIERS	13		
MOTORMAN		J-P LEVESQUE	13		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

OFFICIAL DAILY DRILLING REPORT FORM

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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR #1				2001-08-24/25 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
SONEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	5	~~[illegible]~~
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING	1.30	12
20	DIR. WORK		
21	DYNAMITE	4	
22			
23			
COMPLETION	A. PERF'RT'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
	TOTALS	10.30	12.00

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
	STB RMR OD	m	SIZE		DENSITY kg/m³	
	D.C. ID OD	m	MFG.		PRESSURE GRADIENT	
	STB RMR OD	m	TYPE		VISCOSITY	
	D.C. ID OD	m	JETS mm		PV mPa·s YP Pa	
	STB RMR OD	m	SER No.		GEL STR. Pa	
			DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE			
	SINGLES DP	m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS BERTRAND PARTIE AVEC LA "FLOAT" POUR CHERCHER CASSING.

SORTIE UNE BARRE DE CASSING

DRILLER

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

LEGAL LAND DESCRIPTION

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
				2001-08-24								

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	11.00	4.00	21	FAIT SAUTER UN JOINT A LA DYNAMITE A. 769 m.
11.00	16.00	5.00	6	SORTIE DU TROUS
16.00	17.30	1.30	19	PREPARER POUR REDESCENDRE DANS LE TROUS

BOILER HOURS

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
	STB RMR OD	m	SIZE		DENSITY kg/m³	
	D.C. ID OD	m	MFG.		PRESSURE GRADIENT	
	STB RMR OD	m	TYPE		VISCOSITY	
	D.C. ID OD	m	JETS mm		PV mPa·s YP Pa	
	STB RMR OD	m	SER No.		GEL STR. Pa	
			DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE			
	SINGLES DP	m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
				2001-08-25								

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	19.00	12	19	RENTRER DANS LE TROUS POUR "FISHER" CASSING RESORTIE DU TROUS RIEN SORTIES DU CASSING.

BOILER HOURS

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

- mud density = kilogram per cubic metre (kg/m³)
- pump-stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = second per litre (s/L)
- flow rate = cubic metre per minute (m³ / min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa·s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H₂S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA

No.

DATE 2001-08-24/25 (Year Month Day) PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 CAMP ____ NONCAMP ____

COMPANY FORAGAZ INC.

RIG MANAGER B. HABEL RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.		INJURIES YES	NO
DRILLER		B-HABEL	10½			
DERRICKMAN		J-DESROSIERS	10½			
MOTORMAN		J-P-LEVESQUE	10½			
FLOORMAN						
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.		INJURIES YES	NO
DRILLER		B-HABEL	12			
DERRICKMAN		J-DESROSIERS	12			
MOTORMAN		J-P-LEVESQUE	12			
FLOORMAN						
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR	#1			2001-08-26/27 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING ~~& CEMENT~~		3.30
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING	9	8.30
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERFOR'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		9	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	BIT RECORD	MUD RECORD
	BIT m	BIT No.	TIME
	STB RMR OD m	SIZE	DENSITY kg/m³
	D.C. ID OD m	MFG.	PRESSURE GRADIENT
	STB RMR OD m	TYPE	VISCOSITY
	D.C. ID OD m	JETS mm	PV mPa•s / YP Pa
	STB RMR OD m	SER No.	GEL STR. Pa
		DEPTH OUT	WATER LOSS cm³
		DEPTH IN	pH
		TOTAL METRES DRILLED	SOLIDS %
		TOTAL HRS. RUN	
	STANDS DP m	COND. 1/8's T/B/GAGE	MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg
	SINGLES DP m	FLOW RATE m³/min	
	KELLY DOWN m	PRESSURE DROP kPa	
	TOTAL m		
	(FORCE) WT. OF STRING daN		

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
				2001-08-26								

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	16.00	9	19	RENTRER DANS LE TROUS POUR ALLER "FISHER" RESORT. ES DU TROU AVEC SEULEMENT 1 CASING DE 8.70 m RESTE 3 CASING AU FOND

BOILER HOURS

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	BIT RECORD	MUD RECORD
	BIT m	BIT No.	TIME
	STB RMR OD m	SIZE	DENSITY kg/m³
	D.C. ID OD m	MFG.	PRESSURE GRADIENT
	STB RMR OD m	TYPE	VISCOSITY
	D.C. ID OD m	JETS mm	PV mPa•s / YP Pa
	STB RMR OD m	SER No.	GEL STR. Pa
		DEPTH OUT	WATER LOSS cm³
		DEPTH IN	pH
		TOTAL METRES DRILLED	SOLIDS %
		TOTAL HRS. RUN	
	STANDS DP m	COND. 1/8's T/B/GAGE	MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg
	SINGLES DP m	FLOW RATE m³/min	
	KELLY DOWN m	PRESSURE DROP kPa	
	TOTAL m		
	(FORCE) WT. OF STRING daN		

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL - S PAR'EL - P COM'D - C
				2001-08-27								

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	15.30	8.30	19	ALLER FAIRE MACHINER "SHOE CASSING" À POINTE DU LAC CHANGER 1 "CASSING" AVEC FARDIER, SOUDER STAB. APRÈS CASSING. "BOFFER" SHOE. SOUDER SHOE APRÈS CASSING. PREPARER ELEVATEUR ET POWER TONG. PRÈS A DESCENDRE CASSING.
15.30	19.00	3.30	12	DESCENDUES 5 CASSING 7" SOUDER 4 PLACE DE 1" EN BAS ET EN HAUT DE LA BAGUE.

BOILER HOURS

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
- mud density = kilogram per cubic metre (kg/m³)
- pump-stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = seconds per litre (s/L)
- flow rate = cubic metre per minute (m³/min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.
- (1) Daily Walk Around Inspection — OPR. Initial ___ R.M. Initial ___
- (2) Detailed Inspection-Weekly (using check list) — OPR. Initial ___ R.M. Initial ___
- (3) H₂S Signs Posted (if required) — OPR. Initial ___ R.M. Initial ___
- (1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ___
- (2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — R.M. Initial ___
- (3) Mast Inspected Before Raising or Lowering — R.M. Initial ___

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA

No.

DATE (Year Month Day): 2001-08-26-27 — PROVINCE: QUEBEC

WELL NAME & No.: BECANCOUR #1 — CAMP ___ NONCAMP ___

COMPANY: FORAGAZ INC.

RIG MANAGER: BERTRAND HABEL — RIG No: 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B-HABEL	9		
DERRICKMAN		J-DESROSIERS	9		
MOTORMAN		J-P-LEVESQUE	9		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		J-DESROSIERS	12		
DERRICKMAN		B-HABEL	12		
MOTORMAN		J-P-LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC APPROVED COPYRIGHT 1977 JANUARY

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
BECANCOUR #1	1			2001-08-28 / 29

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (S/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa•s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial ____ R.M. Initial ____
(2) Detailed Inspection-Weekly (using check list) — Initial ____ Initial ____
(3) H₂S Signs Posted (if required) — Initial ____ Initial ____

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ____
(3) Mast Inspected Before Raising or Lowering — Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT

WIRE LINE RECORD — REEL No. — SIZE — No. LINES — METRES SLIPPED — METRES CUT OFF — PRESENT LENGTH — MEGAJOULES SINCE LAST CUT — CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE 2001-08-28/29 — PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 — CAMP ____ NONCAMP ____

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL — RIG No. 1

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING	8.30	12
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	2	
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT	1.30	
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION A	PERF'RT'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK
No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.
TOTAL MUD COST

FIRST TOUR

DRILLING ASSEMBLY (at end of tour): BIT, STB RMR OD, D.C. ID OD, STB RMR OD, D.C. ID OD, STB RMR OD, STANDS DP, SINGLES DP, KELLY DOWN, TOTAL, (FORCE) WT. OF STRING daN

BIT RECORD: BIT No., SIZE, MFG., TYPE, JETS mm, SER No., DEPTH OUT, DEPTH IN, TOTAL METRES DRILLED, TOTAL HRS. RUN, COND. T/B/GAGE, FLOW RATE m³/min, PRESSURE DROP kPa

MUD RECORD: TIME, DENSITY kg/m³, PRESSURE GRADIENT, VISCOSITY, PV mPa•s YP Pa, GEL STR. Pa, WATER LOSS cm³, pH, SOLIDS %

MUD & CHEMICALS ADDED TYPE	AMT. kg	TYPE	AMT. kg
BENTONITE			
COSTIK			

REMARKS: 16 SACS DE 100 LBS BENTONITE COSTIC 25 lbs

DRILLER

METRES DRILLED: FROM — TO — DR. D RM. R CORE. C — CORE No.

FORMATION: 2001-08-28

ROTARY RPM — (FORCE) WT. ON BIT daN — PUMP PRESS — PUMP No. LINER SIZE / STROKES per min — PUMP No. LINER SIZE / STROKES per min — METHOD RUN SGL-S PARTEL-P COMB-C — REDUCED PUMP SPEED

DEVIATION RECORD: DEPTH — DEV. — DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	8.30	1.30	12	FINI DESCENDRE "CASING" ~~PRES~~ "READY" A DESCENBRE LES COLAR ET TUBING 4 3/4"
8.30	10.30	2.00	6	DESCENDRE COLAR + TIGE JUSQUA 764M.
10.30	19.00	8.30	3	REAMING CASING de 764m JUSQUA 792.09

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	12		
DERRICKMAN		S. DESROSIERS	12		
MOTORMAN		J-P. LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR

DRILLING ASSEMBLY (at end of tour): BIT, STB RMR OD, D.C. ID OD, STB RMR OD, D.C. ID OD, STB RMR OD, STANDS DP, SINGLES DP, KELLY DOWN, TOTAL, (FORCE) WT. OF STRING daN

BIT RECORD: BIT No., SIZE, MFG., TYPE, JETS mm, SER No., DEPTH OUT, DEPTH IN, TOTAL METRES DRILLED, TOTAL HRS. RUN, COND. T/B/GAGE, FLOW RATE m³/min, PRESSURE DROP kPa

MUD RECORD: TIME, DENSITY kg/m³, PRESSURE GRADIENT, VISCOSITY, PV mPa•s YP Pa, GEL STR. Pa, WATER LOSS cm³, pH, SOLIDS %

MUD & CHEMICALS ADDED TYPE	AMT. kg	TYPE	AMT. kg
Bentonite			

REMARKS: Bentonite 5 sacs 100 lbs

Reamer Jusqu'à 842 m.

DRILLER

METRES DRILLED: FROM — TO — DR. D RM. R CORE. C — CORE No.

FORMATION: 2001-08-29

DEVIATION RECORD: DEPTH — DEV. — DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	19.00	12	3	Redescendre ~~3~~ tiges très bien descendues, Continuer à descendre les 5 tiges restante très bien été sortir 4 tiges et redescendues
				Arrivée au fond à 15 hrs. Circuler 1 hrs remonter 4 tiges

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	12		
DERRICKMAN		S. DESROSIERS	12		
MOTORMAN		J-P. LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
BECANCOUR #1	1			2001-08-30/31 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING	2	
4	CORING		
5	CONDITION MUD & CIRCULATE	6	12
6	TRIPS	4	
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'RT'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
	STB RMR OD	m	SIZE		DENSITY kg/m³	
	D.C. ID OD	m	MFG.		PRESSURE GRADIENT	
	STB RMR OD	m	TYPE		VISCOSITY	
	D.C. ID OD	m	JETS mm		PV mPa•s / YP Pa	
	STB RMR OD	m	SER No.		GEL STR. Pa	
			DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min		BENTONITE	
	KELLY DOWN	m	PRESSURE DROP kPa		COSTIC	
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: BENTONITE 9 SACS DE 100LBS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

FORMATION (SHOW CORE RECOVERY): 2001-08-30

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	9.00	2.00	3	REDESCENDOES LES 8 TIGES AU FOND IL Y AVAIT 25 m. de "FIL".
9.00	15.00	6.00	5	CIRCULER RECONDITIONNER LA BENTONITE
15.00	19.00	4.00	6	SORTIR DU TROUS DIFICULTÉ A PARTIR DU FONDS POUR 60 m.
				Tirer 30 Pipes

BOILER HOURS

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
	STB RMR OD	m	SIZE		DENSITY kg/m³	
	D.C. ID OD	m	MFG.		PRESSURE GRADIENT	
	STB RMR OD	m	TYPE		VISCOSITY	
	D.C. ID OD	m	JETS mm		PV mPa•s / YP Pa	
	STB RMR OD	m	SER No.		GEL STR. Pa	
			DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

FORMATION (SHOW CORE RECOVERY): 2001-08-31

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	9.30	2.30	6	Finir de sortir du trous, préparer "fishing coupling"
9.30	13.30	4.00	6	redescendre dans le trous visser les 6 "rods" manquants plus Monell et mud Moteur.
13.30	19.00	5.30	6	ressortir du trous jusqu'à 5 pipes du mud moteur.
				Échapper 72 m de 7" dans le trous.

BOILER HOURS

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

- mud density = kilogram per cubic metre (kg/m³)
- pump-stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = seconds per litre (s/L)
- flow rate = cubic metre per minute (m³/min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.

	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H₂S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG HD	SET AT

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF / PRESENT LENGTH / MEGAJOULES SINCE LAST CUT / CUMULATIVE MEGAJOULES

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL-S PARTL-P COM'D-C
	REDUCED PUMP SPEED						

DRILLING CREW PAYROLL DATA

No.

DATE 2001-08-30 & 31 (Year Month Day) — PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 — CAMP ___ NONCAMP ___

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL — RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	12		
DERRICKMAN		J. DESROSIERS	12		
MOTORMAN		J-P. LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	NO
DRILLER		B. HABEL	12		
DERRICKMAN		J-DESROSIERS	12		
MOTORMAN		J-P-LEVESQUE	12		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
ST-BARNABE BECANCOUR #1	1			2001-09-04/05

OPERATOR	CONTRACTOR	RIG No.
JUNEX	FORAGAZ INC.	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Habel

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		11
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	PREPARE TOOL	1.30	
22	ST BARNABE	10.30	
23			
COMPLETION	A. PERF'RT'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
	TOTALS	12	11

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV mPa·s / YP Pa	
	D.C. ID OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE C	CORE No.

FORMATION: 2001-09-04

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL-S PARTEL-P COMB-C

REDUCED PUMP SPEED

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	8.30	1.30	21	PREPARER LES OUTILS + "FISHING TOOL" POUR ST-BARNABE
8.30	19.00	10.30	22	FISHER LES H.Q. TUBING du TROUS RAMASSER LES TUBING + DRILL + TRIPLEX. REDESCENDUES A BECANCOUR BERTRAND RAMENER "PTITE" DRILL A "SHOP".

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
1	BIT 1	0.19 m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
1	STB RMR NB OD	m	MFG.		PRESSURE GRADIENT	
1	D.C. ID 4 3/4" OD	m	TYPE		VISCOSITY	
1	STB RMR STB OD	m	JETS mm		PV mPa·s / YP Pa	
1	D.C. ID 4 3/4" OD	m	SER No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min			
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE C	CORE No.

FORMATION: 2001-09-05

REDUCED PUMP SPEED

DEVIATION RECORD

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	9.00	2.00	6	FINIR SORTIR "MUD MOTEUR" + MONELLE + 2 CASSING 5 ½".
9.00	18.00	9.00	6	REDESCENDRE DANS LE TROUS ET "GALIPE" BIT - STAB. + COLAR + PIPES.
				RENCONTRER DU DEBOULIE A 668m.

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (s/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa·s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using check list)
(3) H₂S Signs Posted (if required)

OPR. Initial / R.M. Initial

(1) Rig Site Health and Safety Meeting (one meeting/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)
(3) Mast Inspected Before Raising or Lowering

R.M. Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA

No.

DATE 2001-09-04/05 (Year Month Day) — PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 — CAMP ___ NONCAMP ___

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HABEL — RIG No. 1

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS	INJURIES YES	NO
DRILLER		B- HABEL	12		
DERRICKMAN		J- DESROSIERS	12		
MOTORMAN					
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS	INJURIES YES	NO
DRILLER		B- HABEL	11		
DERRICKMAN		J- DESROSIERS	11		
MOTORMAN		J-P LEVESQUE	11		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ___ SINCE LAST LOST TIME ACCIDENT

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE Yr. Mo. Day
BECANCOUR	#1	1		2001-09-17

OPERATOR	CONTRACTOR	RIG No.
JONEX	FORAGAZ INC.	

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Bertrand Hasle

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND — All lengths exp

Metric expressions: — mud density = / pump-stroke le / weight of strin / weight on bit: / linear mass = / viscosity = sec

ased in metres to two decimal places.
ogram per cubic metre (kg/m³)
ith = millimetre (mm)
decanewton (daN)
licator will record decanewton
ogram per metre (kg/m)
d per litre (s/L)

flow rate = cubic metre per minute (m³ / min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using check list)
(3) H₂S Signs Posted (if required)

OPR. / R.M.
Initial / Initial — (1) Rig Site Health and Safety Meeting (one meeting/crew/month)
Initial / Initial — (2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)
Initial / Initial — (3) Mast Inspected Before Raising or Lowering

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m

WIRE LINE RECORD — REEL No.

ADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT	SIZE	No. LINES	METRES SUPPED

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA — No.

DATE (Year Month Day) 2001-09-17 — PROVINCE QUEBEC

WELL NAME & No. BECANCOUR #1 — CAMP ____ NONCAMP ____

COMPANY FORAGAZ INC.

RIG MANAGER BERTRAND HASLE — RIG No. 1

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1.	RIG UP AND TEAR DOWN		
2.	DRILL ACTUAL		
3.	REAMING	1	
4.	CORING		
5.	CONDITION MUD & CIRCULATE	1	
6.	TRIPS	9 1/2	
7.	LUBRICATE RIG		
8.	REPAIR RIG		
9.	CUT OFF DRILLING LINE		
10.	DEVIATION SURVEY		
11.	WIRE LINE LOGS		
12.	RUN CASING & CEMENT		
13.	WAIT ON CEMENT		
14.	NIPPLE UP B.O.P.		
15.	TEST B.O.P.		
16.	DRILL STEM TEST		
17.	PLUG BACK		
18.	SQUEEZE CEMENT		
19.	FISHING		
20.	DIR. WORK		
21.	Ramonage		9
22.			
23.			
COMPLETION	A. PERF'R'TN		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'NL		
	G		
TOTALS		11 1/2	

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. W/O DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No. DRILLING ASSEMBLY (at end of tour)

BIT ____ m
STB RMR OD ____ m
D.C. ID OD ____ m
STB RMR OD ____ m
D.C. ID OD ____ m
STB RMR OD ____ m
STANDS DP ____ ____ ____ m
SINGLES DP ____ m
KELLY DOWN ____ m
TOTAL ____ m
(FORCE) WT. OF STRING ____ daN

BIT RECORD

BIT No. ____
SIZE ____
MFG. ____
TYPE ____
JETS mm ____
SER No. ____
DEPTH OUT ____
DEPTH IN ____
TOTAL METRES DRILLED ____
TOTAL HRS. RUN ____
COND. 1/8's T/B/GAGE ____
FLOW RATE m³/min ____
PRESSURE DROP kPa ____

MUD RECORD

TIME ____
DENSITY kg/m³ ____
PRESSURE GRADIENT ____
VISCOSITY ____
PV mPa•s / YP Pa ____
GEL STR. Pa ____
WATER LOSS cm³ ____
pH ____
SOLIDS % ____

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

SECOND TOUR

No. DRILLING ASSEMBLY (at end of tour)

BIT ____ m
STB RMR OD ____ m
D.C. ID OD ____ m
STB RMR OD ____ m
D.C. ID OD ____ m
STB RMR OD ____ m
STANDS DP ____ ____ ____ m
SINGLES DP ____ m
KELLY DOWN ____ m
TOTAL ____ m
(FORCE) WT. OF STRING ____ daN

BIT RECORD

BIT No. ____
SIZE ____
MFG. ____
TYPE ____
JETS mm ____
SER No. ____
DEPTH OUT ____
DEPTH IN ____
TOTAL METRES DRILLED ____
TOTAL HRS. RUN ____
COND. 1/8's T/B/GAGE ____
FLOW RATE m³/min ____
PRESSURE DROP kPa ____

MUD RECORD

TIME ____
DENSITY kg/m³ ____
PRESSURE GRADIENT ____
VISCOSITY ____
PV mPa•s / YP Pa ____
GEL STR. Pa ____
WATER LOSS cm³ ____
pH ____
SOLIDS % ____

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No

DEVIATION RECORD

DEPTH	DEV.

TIME LOG

FROM	TO	ELAPSED TIME	CODE No
7.00	8.00	1.00	6
8.00	9.00	1.00	5
9.00	10.00	1.00	3
10.00	18.30	8.30	6

FORMATION (SHOW CORE RECOVERY) — 9 - 6

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARTEL - P COM'D - C

REDUCED PUMP SPEED

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS — BOILER HOURS

REMIER DANS LE TROUS
CIRCULATE
TRAVAILLER DE 668 M A 672 M.
LAY DOWN PIPE ET COLAR

FIRST TOUR 00:00 TO 12:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B-HASLE	11 1/2		
DERRICKMAN		J-DESROSIERS	11 1/2		
MOTORMAN		JP-LAROSE	11 1/2		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No

DEVIATION RECORD

DEPTH	DEV.

TIME LOG

FROM	TO	ELAPSED TIME	CODE No
7.00	16.00	9	21

FORMATION (SHOW CORE RECOVERY) — 9 - 7

ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL - S PARTEL - P COM'D - C

REDUCED PUMP SPEED

DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS — BOILER HOURS

Ramonage autour de la drill amener au voyage à la Shop"

SECOND TOUR 12:00 TO 24:00

CREW	SOC. INS. No.	NAME	HRS.	INJURIES YES	INJURIES NO
DRILLER		B-HASLE	9		
DERRICKMAN		J-DESROSIERS	9		
MOTORMAN		JP-LAROSE	9		
FLOORMAN					
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

FORM 2T6m — APPROVAL PENDING — APPROVED Revised December 1966 — CAODC COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING — CAODC COPYRIGHT 1977 JANUARY

Annexe 2 :
Relevé de déviation

JUNEX inc.

Positionnement du forage JUNEX Bécancour no. 1
Basses-Terres du Saint-Laurent, centre du Québec

Utilisation du système ReflexIT en première canadienne

Jean-Sébastien Marcil
Géologue, JUNEX inc.

FLEXIT

Permis : 1996PG950
Date : Août 2001

Table des matières

Résumé

- **JUNEX inc.** a entrepris le forage *JUNEX Bécancour no.1* en décembre 2000. En juillet 2001, après avoir atteint une profondeur de 858 mètres par rapport à la table de rotation, une déviation oblique du forage en direction du sud-est (N135) a été entreprise. Dans le but de bien positionner et de bien orienter la tête du forage, JUNEX et Foragaz ont utilisé, en première canadienne, le système ReflexIT. Ce système a permis d'arpenter le puits avec succès de façon rapide et précise. La méthodologie d'utilisation de cet appareil est assez simple et les résultats ont été validés par la complétion de plusieurs essais avant de débuter les travaux de déviation.

1. Introduction

Au cours de l'été 2001, *JUNEX inc* a réalisé le puits JUNEX Bécancour no. 1. Ce forage d'une longueur de 1500 mètres est un forage orienté obliquement vers le sud. Il a pour but de tester le potentiel en gaz naturel d'une zone perméable située à proximité d'une faille.

Les travaux de forage sont réalisés par Foragaz inc. sous la supervision de l'ingénieur de forage Jean-Yves Lavoie. Foragaz utilise une foreuse hydraulique de type *Barber*, spécialement équipée et modifiée pour le forage de puits pétroliers et gaziers. La déviation se fera au moyen d'un moteur de fond activé par la boue de type *Computalog 3 3/8" Lobe 5/6* acquis par Foragaz. Bien que la réalisation d'un forage devié représente un défi technique en soi, la détermination de la position et l'orientation de ce genre forage sont des étapes cruciales pour réussir cette entreprise. Dans le but de bien positionner le forage et ainsi d'atteindre avec succès la cible, JUNEX et Foragaz ont utilisé le système ReflexIT. Ce système n'a jamais été utilisé au Canada et JUNEX est une des premières compagnies au monde à l'utiliser. Le rapport qui suit présente les résultats de ces travaux de positionnement et déviation.

a) Localisation

Le Bloc Bécancour est couvert par le permis 1996PG950 et il est la propriété de *JUNEX inc*. Il est situé en bordure du fleuve Saint-Laurent au sud-est de la ville de Trois-Rivières. La rivière Bécancour divise le bloc en deux parties. Le forage *JUNEX Bécancour no.1* est localisé sur le bloc Est. Le forage est situé sur le même site de forage que celui de SOQUIP-Pétrofina Bécancour no. 1 mais à 40 mètres au sud-est.

b) Objectifs

Le forage dévié est équipé d'un système *ReflexIT* qui permettra d'établir la position exacte de la tête de forage tout au long de l'avancé des travaux.. En arpentant adéquatement le trou de forage, il devient plus facile d'atteindre la cible. La méthode doit être précise et efficace car une déviation sur un forage profond pour engendrer un déplacement de plusieurs dizaines de mètres. Une déviation de 1 degré sur 1000 mètres correspond à un déplacement horizontal de 17,5 mètres. Lorsque que le forage est oblique est que la cible est sub-horizontale, une tel déviation est suffisante pour manquer complètement la cible.

2. Résultats

Le programme de forage, présenté à l'annexe 1, consiste d'abord à forer un puits vertical jusqu'à une profondeur de 850 mètres, suivi d'une partie déviée jusqu'à 1200 mètres (TVD). Cette partie déviée orientée N180 aura une longueur de 650 mètres et atteindre une inclinaison maximal (*maximal drift*) de 60 degrés.

a) Méthodologie d'utilisation de ReflexIT

Il existe plusieurs façon d'utiliser le ReflexIT. Il est possible de l'utiliser en prenant des mesures continues ou en prenant des mesures coordonnées dans le temps. La méthode utilisée par JUNEX consistait à porter la sonde au fond du puits à 850 mètres et de prendre une mesure à tous les 25 mètres. La sonde agissant de façon indépendante, elle prend des mesures de façon continuelle. À tous les 25 mètres, le StoreIT enregistre l'heure à laquelle une mesure à été prise. Lorsque que la sonde revient à la surface le StoreIT se synchronise avec le SensIT pour obtenir la correspondance temps-profondeur. Dans un dernier temps, le système recalibre et corrige toutes les mesures prises lors de la remontée de la sonde.

Les valeurs d'azimuth sont toujours mesurées par rapport au nord magnétique. Il faut donc les corriger avant de les mettre en carte. La déclinaison magnétique à Bécancour est positive de 21 degrés (il faut additionner 21 degrés aux mesures prises par ReflexIT).

b) Relevé des déviations

Lors du forage de la partie verticale du trou, plusieurs mesures de déviation ont été prises à l'aide d'un GoDevil. Cet appareil ne fournit que des mesures d'inclinaison du puits, la direction du trou doit donc être estimée en fonction des déviations mesurées sur les puits localisés à proximité.

Tableau 1 : Relevé des mesures de déviation prises avec le GoDevil

Station	Profondeur (mkb)	Déviation (dir/incli)	
1	0	0	0,00
2	351	305	5,50
3	370	305	5,75
4	390	305	5,00
5	409	305	6,00
6	428	305	5,75
7	448	305	4,75
8	467	305	5,00
9	486	305	4,10
10	506	305	4,35
11	527	305	4,50
12	547	305	4,50
13	567	305	3,50
14	586	305	3,50
15	604	305	3,00
16	633	305	2,25
17	652	305	2,00
18	671	305	1,75
19	690	305	2,00

* Les chiffres en couleur indiquent les stations pouvant être comparées entre les deux tests

En utilisant *Wellpath3*, un logiciel servant à calculer des trajectoires de forage, on calcule un déplacement de 40 mètres vers le nord-ouest. Ce calcul de déviation est peu précis puisqu'on n'a pas de mesures de direction exacte, toutefois, elle permet d'évaluer la distance maximale de déviation du puits si le puits avait toujours dévié dans la même

direction préférentielle. L'utilisation de ReflexIT permettra donc d'avoir une mesure plus exacte et devrait indiquer des inclinaisons similaires.

Quatre essais on été effectuées avec le système ReflexIT dans le but de bien évaluer la précision de l'appareil. Les deux premiers essais avaient pour but de vérifier si les données recueillies par l'appareil étaient reproductibles et cohérentes. Le résultat de ces deux essais étant symétriques, nous en avons conclu que l'appareil fonctionnait adéquatement. Le troisième essais avait pour but de déterminer les paramètres à utiliser pour obtenir les bons graphiques. Le quatrième essai avait pour but de comparer les données recueillies dans la zone ayant connu la plus importante déviation selon le GoDevil.

Le test de déviation a donc été effectué au cinquième essai. Les mesures ont été prises à tous les 25 mètres. Le résultat des

Tableau 2 : Relevé des mesures de déviation prises avec le ReflexIT

Station	Profondeur (mkb)	Déviation (dir/incli)	
1	8	0	0
2	100	0	0
3	133	64,28	0,96
4	157,99	66,05	1
5	182,99	56,55	1,44
6	207,98	61,19	1,45
7	232,97	64,16	1,56
8	257,96	65,39	2,1
9	282,93	69,54	2,81
10	307,89	74,02	4,14
11	332,8	79,88	5,28
12	357,7	79,59	5,21
13	382,6	78,75	5,03
14	407,5	79,59	4,9
15	432,42	80,75	4,67
16	457,34	82,86	4,43
17	482,26	82,22	4,42
18	507,19	82,92	4,67
19	532,12	81,17	3,64
20	557,08	73,45	2,77
21	582,06	61,01	2,25
22	607,04	83,16	2,01
23	657,01	98,49	1,73
24	682	109,51	1,28
25	706,99	134,47	1,76
26	731,99	168,19	1,02
27	756,98	193,71	2,23
28	781,95	213,29	2,73
29	806,92	231,86	2,99
30	831,89	233,17	3,22
31	856,85	238,39	3,17

Le calcul de la déviation montre que le forage a subit trois déviations majeures reliées à des événements géologiques :

- Déviation vers N75 sur une longueur de 600 mètres pour un déplacement horizontal de 30 mètres

- Rotation du forage de 155 degrés dans le sens horaire sur une longueur de 200 mètres amenant un déplacement horizontal de 3 m vers le sud
- Déviation vers N230 sur une longueur de 50 mètres pour un déplacement horizontal de 5 mètres

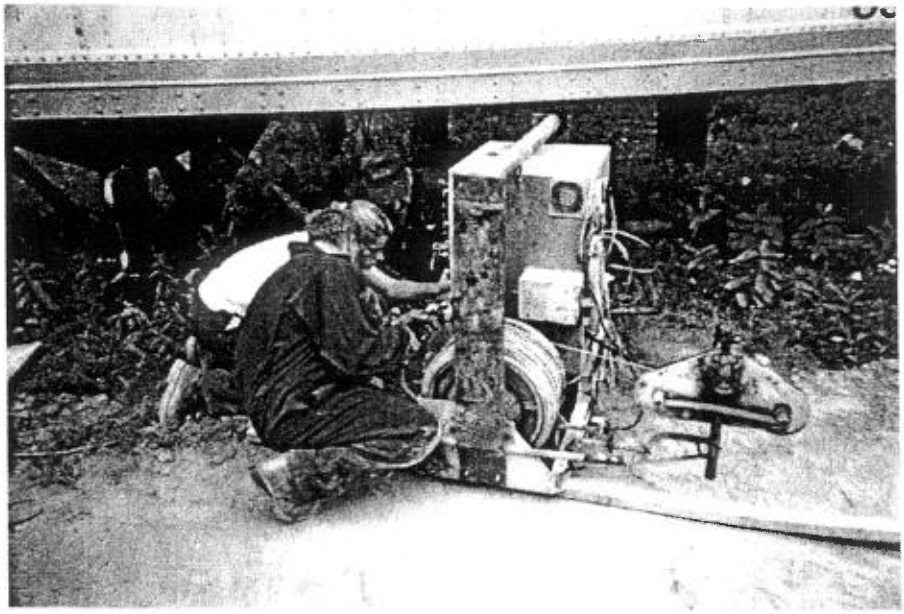
La résultante de ces déviations donne un déplacement horizontal de 26 mètres vers l'est et une profondeur vraie (TVD) de 856,85 mètres. À partir de ce point plusieurs mesures ont été prises tout au long du forage dévié pour déterminer si le forage conservait la bonne orientation vers le sud.

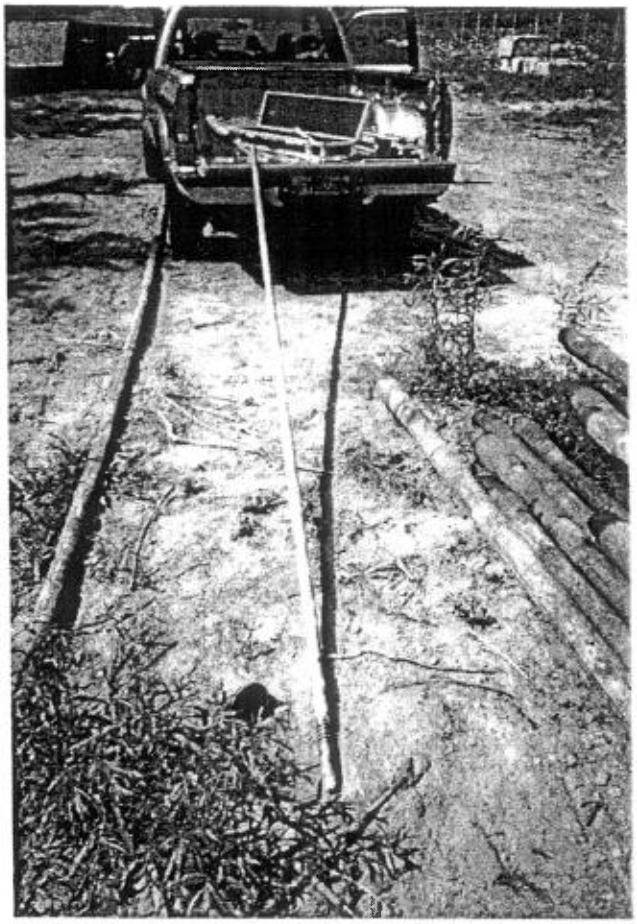
Les événements géologiques reliés à ces déviations sont des failles (présence de stries sur les retailles de forages) et l'interprétation des lignes sismiques indique que ces failles ont un pendage faible et une vergence vers le nord. Ces failles sont des chevauchements au front du bassin d'avant-pays.

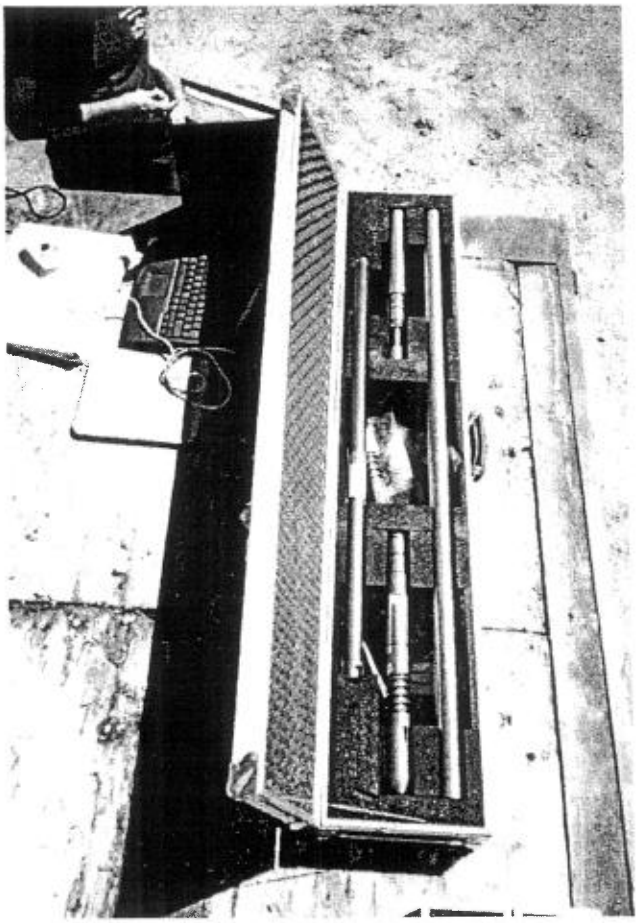
3. Recommandations

La facilité d'utilisation et la précision du système ReflexIT rend cet outil très efficace lors des travaux de forage. Je recommande donc de poursuivre l'utilisation du système ReflexIT pour positionner les forages et mesurer les taux de déviation.

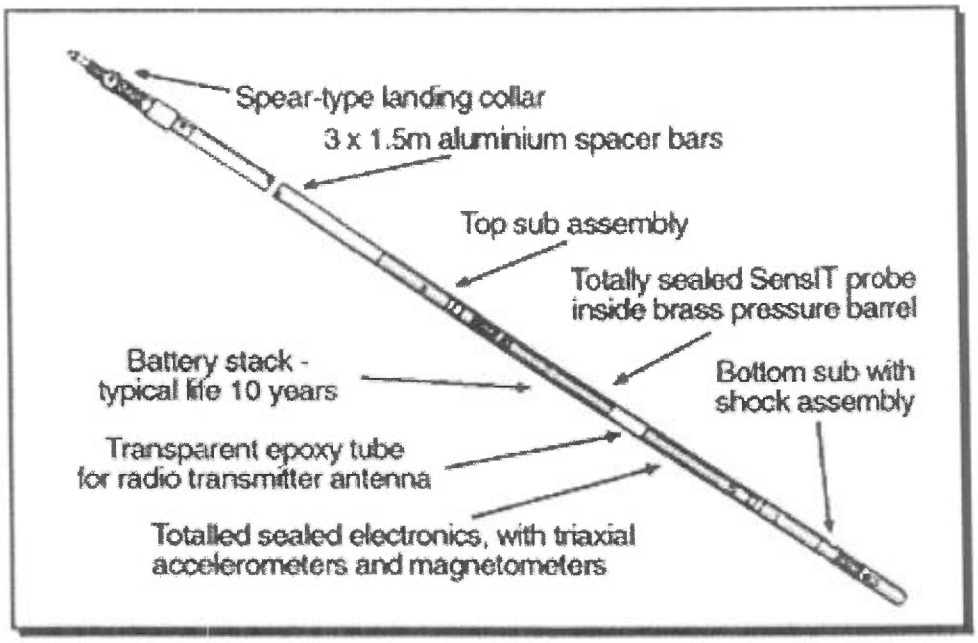
Photographies de terrain prises lors de l'utilisation du ReflexIT

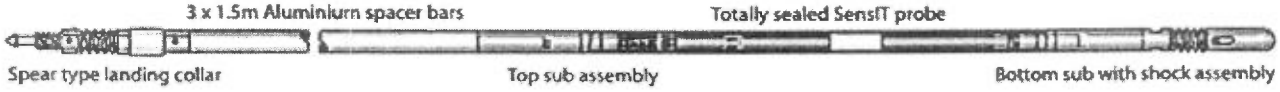


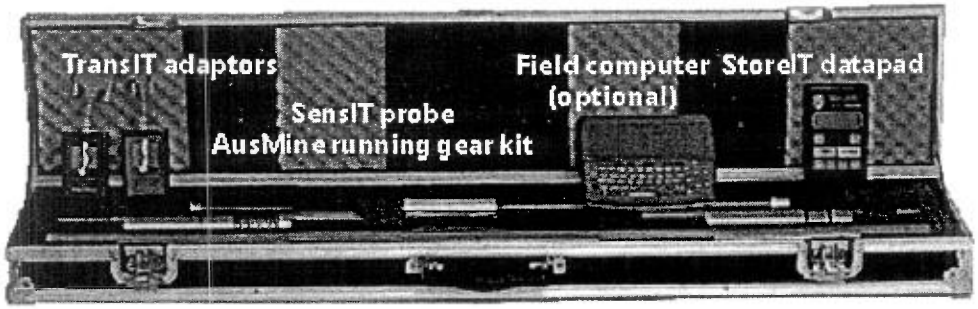


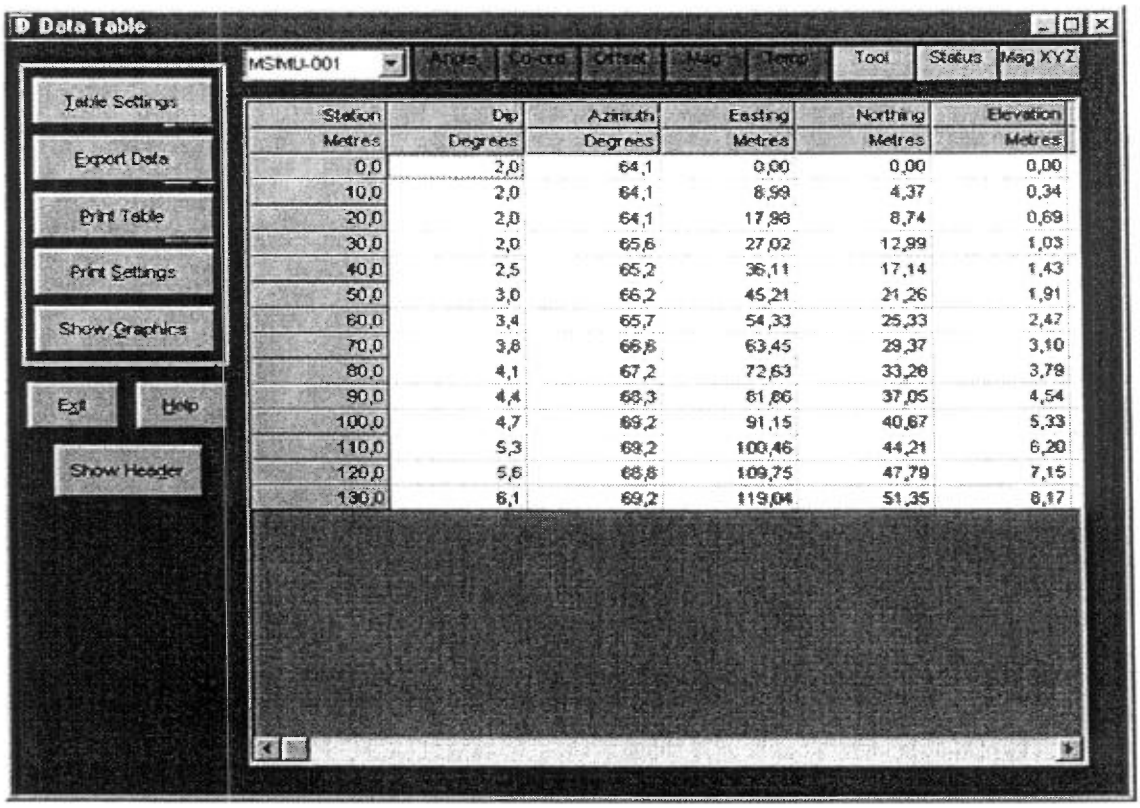


Éléments du système ReflexIT

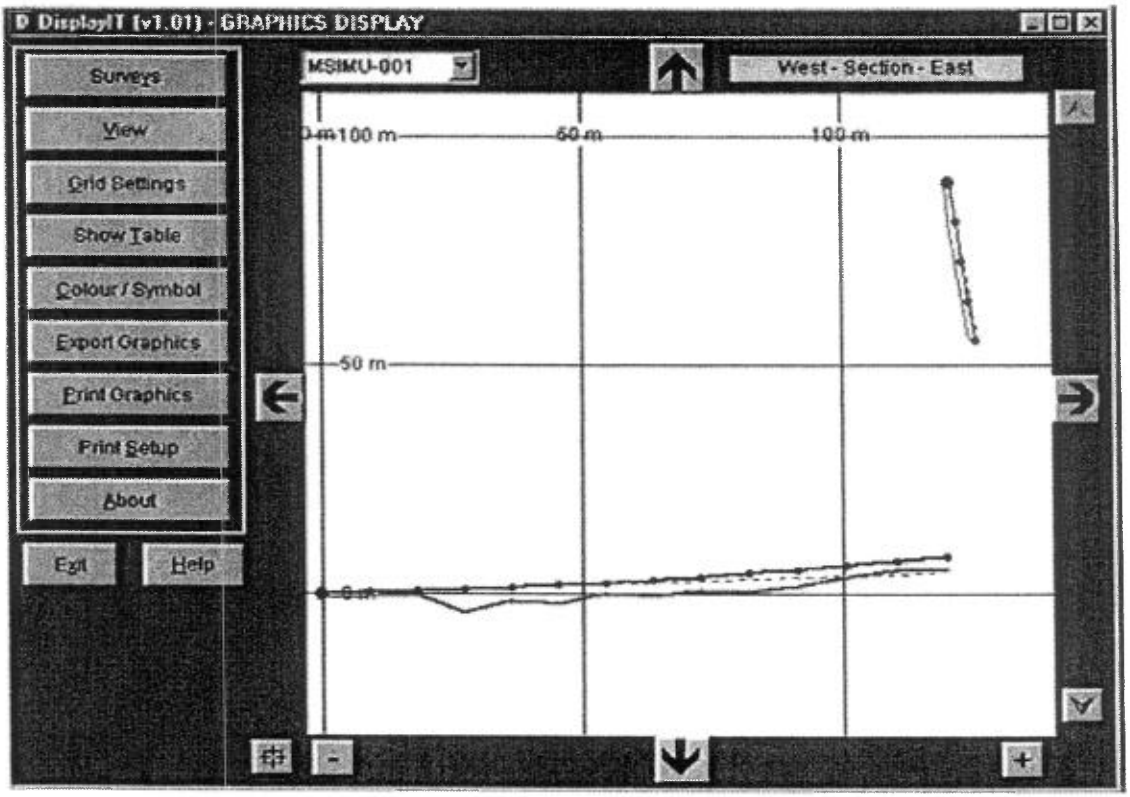








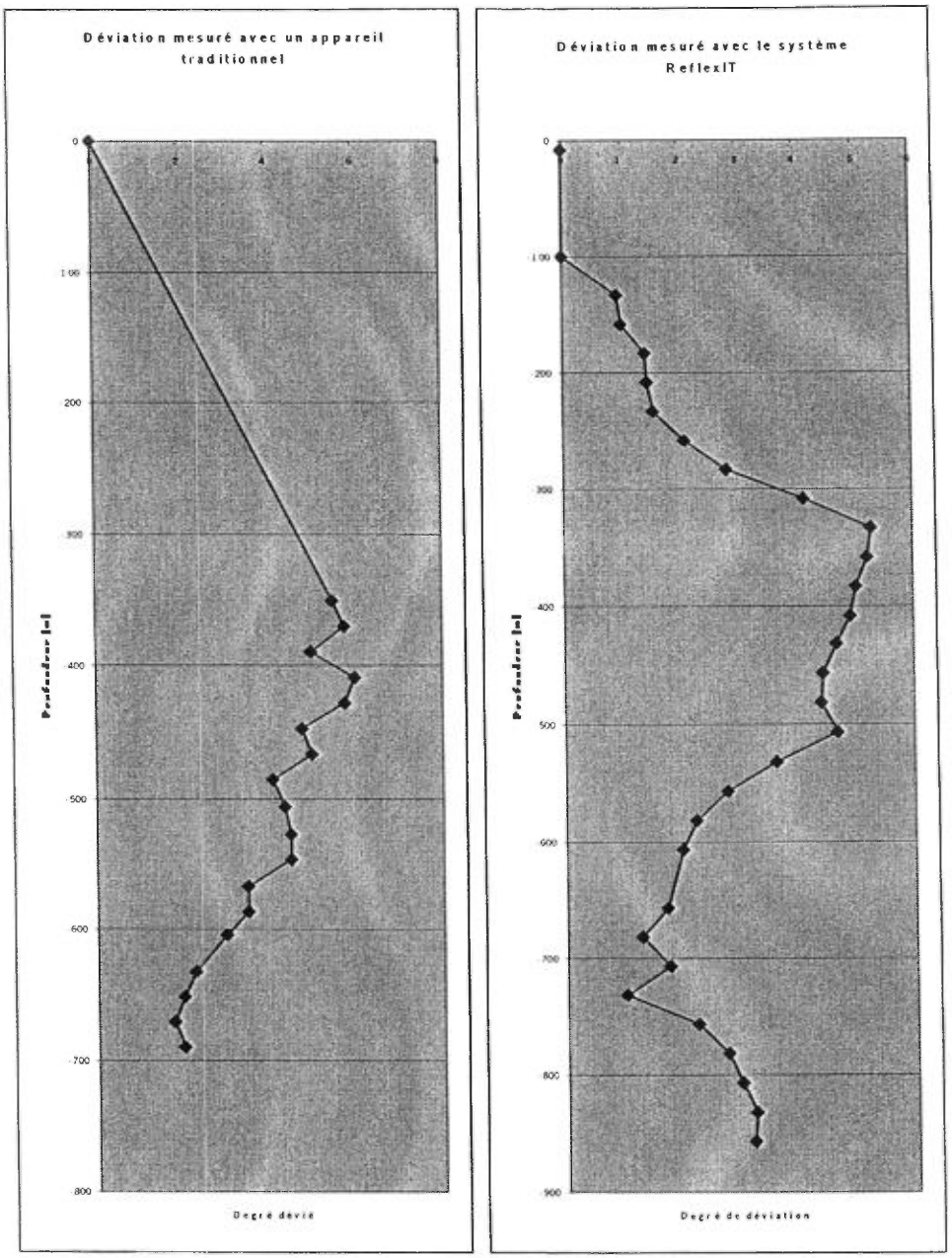
Station	Dip	Azimuth	Easting	Northing	Elevation
Metres	Degrees	Degrees	Metres	Metres	Metres
0,0	2,0	64,1	0,00	0,00	0,00
10,0	2,0	64,1	8,99	4,37	0,34
20,0	2,0	64,1	17,98	8,74	0,69
30,0	2,0	65,6	27,02	12,99	1,03
40,0	2,5	65,2	36,11	17,14	1,43
50,0	3,0	66,2	45,21	21,26	1,91
60,0	3,4	65,7	54,33	25,33	2,47
70,0	3,8	66,6	63,45	29,37	3,10
80,0	4,1	67,2	72,63	33,28	3,78
90,0	4,4	68,3	81,86	37,05	4,54
100,0	4,7	69,2	91,15	40,67	5,33
110,0	5,3	68,2	100,46	44,21	6,20
120,0	5,6	68,8	109,75	47,79	7,15
130,0	6,1	69,2	119,04	51,35	8,17



Logiciels MesureIT et DisplayIT

Comparaison de la déviation en fonction de la profondeur

Mesures prises avec deux appareils différents



Annexe 3 :
Descriptions des déblais de forage

Description des retailles

Junex Bécancour no.1

9m	shale (100%) gris foncé, moyennement calcaireux (50%). Granulométrie des flocons : 1 à 5mm.
18m	shale (50%) et si
405 m	Shale gris foncé avec quelques présences de siltstone. Granulométrie des flocons varie entre 0.5mm (70%) et 2 mm(30%)
410m	Shale entremêlé de siltstone, environ moitié moitié. Granulométrie des particules varie entre 0.5mm (70%) et plus (30%). On remarque la présence de particules allant jusqu'à 5mm (±3%) gris foncé.
415m	shale et siltstone (50/50) gris foncé. Granulométrie des flocons : 1mm(80%)j et 3mm et moins(20%)
420m	shale (±75%) et siltstone (25%) gris foncé. Granulométrie légèrement plus grossière : 2-3 mm uniforme. Flocon très anguleux.
425m	shale (75%) et siltstone (25%) gris foncé. Granulométrie environ 1m, quelques grains à 2mm (5%). Flocon sub-anguleux.
430m	shale (80%) et siltstone (20%), gris foncé. Présence de particules couleur rouille(1%), granulométrie des flocons : 1mm.
435m	shale (90%) et siltstone (10%), gris foncé, présence de particules couleur rouille(1%), granulométrie uniforme (1%).
440m	shale (95%) et siltstone (5%), gris foncé, granulométrie légèrement étalée : 1mm(50%), 2mm(30%), 3mm(20%). Flocon anguleux.
445m	shale (90%) et siltstone (10%), gris foncé. Granulométrie presque uniforme :2mm. Flocon anguleux.

450m shale (90%) et siltstone (10%), gris foncé. Granulométrie uniforme :1mm. Flocon anguleux.

455m shale (85%) et siltstone (15%), gris foncé. Granulométrie étalée : 0.5mm à 3mm. Flocon anguleux.

460m shale (80%) et siltstone (20%), gris foncé. Présence de quelques particules couleur rouille. Granulométrie étalée : 0.5mm à 3mm. Légèrement calcaireux.

465m shale (75%) et siltstone (25%), gris foncé, présence de quelques particules couleur rouille (1%). Granulométrie étalée : 0.5mm à 2mm.

470m shale (90%) et siltstone (10%), gris foncé. Légèrement calcaireux. Granulométrie variable : 1mm (50%), 3mm (50%).

475m shale (85%) et siltstone (15%), gris foncé, présence de quelques particules rouillées (1%). Légèrement calcaireux, granulométrie variable : 0.5mm à 3mm.

480m shale (75%) et siltstone (25%), gris foncé. Présence de quelques particules couleur rouille (1%). Légèrement calcaireux. Granulométrie variable :0.5mm à 3mm.

485m shale (70%) et siltstone (30%), gris foncé. Fracture visible dans des retailles. Granulométrie variable : 0.5mm à 3mm.

490m shale (70%) et siltstone (30%), gris foncé, présences de quelques particules rouillées (1%), calcite de fracture, granulométrie variable : 0.5mm à 3mm.

495m shale (70%) et siltstone (30%), gris foncé. Calcite de fracture. Granulométrie : 2-3mm.

500m shale (75%) et siltstone (25%), gris foncé. Calcite de fracture. Granulométrie variable : 0.5mm à 3mm.

505m shale (75%) et siltstone (25%), gris foncé. Granulométrie variable : 0.5mm à 2mm.

510m siltstone (60%) et shale (40%). Shale gris foncé uniforme. Siltstone gris à beige pâle, parsementé de grains de mica. Pyrite rouillée (1%). Traces de calcite de fracture. Granulométrie des flocons : 1-2mm. Légèrement calcaireux.

515m siltstone (90%) et shale (10%). Shale gris foncé uniforme. Siltstone gris foncé-brun à beige pâle, parsementé de grains de mica. Retaille de shale en flocon anguleux tandis que siltstone est plus arrondi. Légère réaction à l'acide. pyrite rouillée : 0.7%.

520m siltstone (85%) et shale (15%). Shale gris foncé. Siltstone gris foncé à beige pâle, avec présence de grains de mica. Retaille de shale anguleuses ; siltstone arrondies. Légèrement calcaireux. Quelques grains de pyrite rouillées (très peu).

525m siltstone (75%) et shale (25%). Shale gris foncé, siltstone gris foncé à beige pâle, parsementé de grains de mica. Fragment anguleux de shale et arrondi de siltstone. Granulométrie : 1-2mm (flocons). Légèrement calcaireux. Très peu de pyrite rouillées.

530m siltstone (75%) et shale (25%). Shale gris foncé uniforme, siltstone gris foncé à beige pâle, parsementé de grains de mica. Flocons de shale anguleux ; fragments de siltstone arrondi. Légère réaction à l'acide. Pyrite rouillée : 1%. Granulométrie des flocons : 1 à 3mm.

535m siltstone (50%) et shale (50%). Shale gris foncé uniforme, siltstone gris foncé à beige pâle, parsementé de grains de mica. Flocon anguleux de shale et arrondi de siltstone. Granulométrie des flocons : 1-2mm. Pyrite rouillée : 1%. Légèrement calcaireux.

540m siltstone (70%) et shale (30%). Shale gris foncé uniforme. Siltstone gris foncé à beige pâle, parsementé de grains de mica. Flocon de shale anguleux et arrondi de siltstone. Granulométrie des flocons : 1 à 3mm. Pyrite rouillée : 1%. Légèrement calcaireux.

545m siltstone (90%) et shale (10%). Shale gris foncé uniforme. Siltstone gris foncé à beige pâle, avec grains visibles de mica. Granulométrie des flocons : 1mm. Flocons de shale

anguleux ; de siltstone, arrondi. Très peu de grains de pyrite rouillée. Légèrement calcaireux.

550m siltstone (80%) et shale (20%). Sahle gris foncé uniforme. Siltstone gris foncé à beige pâle où se mêle le mica. Flocon anguleux de shale ; arrondi de siltstone. Granulométrie des flocons : 1-2mm. Pyrite rouillée 1%. Légèrement calcaireux.

555m siltstone (80%) et shale (20%). Shale gris foncé uniforme. Siltstone gris foncé à beige pâle où s'entremêle des grains de mica. Flocons de shale anguleux ; siltstone : arrondi. Granulométrie des flocons : 1-3mm. Pyrite rouillée : 1%. Légèrement calcaireux.

560m siltstone (50%) et shale (50%). Shale gris foncé à moyen. Siltstone gris foncé à beige pâle, entremêlé de mica. Flocon de shale très anguleux ; arrondi de siltstone. Granulométrie des flocons : 1mm à quelques 2mm. Pyrite rouille : 2%. Calcite de fracture. Légèrement calcaireux.

565m siltstone (75%) et shale (25%). Shale gris foncé à moyen. Siltstone gris foncé à beige pâle, entremêlé de grains de mica. Granulométrie des flocons : 2mm. Quelques grains de pyrite rouillée. Légèrement calcaireux.

570m siltstone (75%) et shale (25%). Shale gris foncé. Siltstone gris foncé à beige pâle, entremêlé de grains de mica. Granulométrie des flocons : 1mm à 2mm. Quelques grains de pyrite rouillés. Légère réaction à l'acide.

575m siltstone (85%) et shale (15%). Shale gris foncé. Siltstone gris foncé à beige très pâle, entremêlé de grains de mica. Granulométrie des flocons : 1-2mm. Rares grains de pyrite rouillés. Légèrement calcaireux.

580m siltstone (75%) et shale (25%). Shale gris foncé et siltstone gris foncé à beige pâle : grains mica. Granulométrie des flocons : 1mm. Quelques grains de pyrite rouillés. Légèrement calcaireux.

585m shale (20%) et siltstone (80%). Shale gris foncé. Siltstone gris foncé à beige pâle tacheté de grains de mica. Pyrite rouillée

1%. Légèrement calcaireux. Granulométrie des flocons : 1mm.

590m siltstone (85%) et shale (15%). Shale gris foncé. Siltstone gris foncé à beige pâle, tacheté de mica. Granulométrie des flocons : 1mm. Légèrement calcaireux. Pyrite rouillée : 1%. Trace de calcite de fracture.

595m siltstone (85%) et shale (15%). Shale gris foncé. Siltstone gris foncé à beige pâle. Granulométrie des flocons : 1mm. Très peu de pyrite rouillée. Calcite de fracture abondante : 0.8%. Légèrement calcaireux.

600m siltstone (80%) et shale (20%). Shale gris foncé. Siltstone gris foncé à beige pâle. Granulométrie des flocons : 1-2mm. Flocon de shale plus gros et anguleux versus grains arrondis de siltstone. Pyrite rouillée :1%. Calcite de facture en gros grains : 0.5%. Légèrement calcaireux.

605m siltstone (85%) et shale (15%). Shale gris foncé. Siltstone gris foncé à beige pâle. Granulométrie des flocons : 1mm. Flocon de shale grossier et anguleux. Calcite de fracture : contact visible sur flocon (0.7%). Rares grains de pyrite rouillés. Légèrement calcaireux.

610m siltstone (80%) et shale (20%). Shale gris foncé. Siltstone gris foncé à beige pâle. Granulométrie des flocons : 1mm. Flocon de shale anguleux. Traces de calcite de fracture. Peu pyrite rouillée. Légèrement calcaireux.

615m siltstone (70%) et shale (30%). Sahle gris foncé et siltstone gris foncé à beige pâle. Granulométrie des flocons : 1mm. Flocon shale anguleux. Calcite de fracture : 0.5%. Pas pyrite rouillée. Légèrement calcaireux.

620m siltstone (60%) et shale (40%). Shale gris foncé et siltstone gris foncé à beige pâle. Granulométrie des flocons : 1-2mm. Flocon shale anguleux : pas pyrite rouillée. Légèrement calcaireux. Pas de trace de calcite de fracture.

625m siltstone (60%) et shale (40%). Shale gris foncé et siltstone gris foncé à beige pâle. Granulométrie des flocons : 2mm. Trace de calcite de fracture. Pas pyrite.

630m siltstone (70%) et shale (30%). Shale gris foncé. Siltstone gris foncé à beige pâle. Granulométrie des flocons : 1mm. Traces de calcite de fracture (en gros grains). Pas pyrite. Légèrement calcaireux.

635m siltstone (60%) et shale (40%). Shale gris foncé. Siltstone gris foncé à beige pâle. Granulométrie des flocons : 1mm. Traces de calcite de fracture. Pas pyrite. Légèrement calcaireux.

640m siltstone (75%) et shale (25%). Shale gris foncé. Siltstone gris foncé à beige pâle. Granulométrie des flocons : 2mm. Rare pyrite rouillée. Pas calcite fracture visible. Légèrement calcaireux.

645m siltstone (75%) et shale (25%). Shale gris foncé. Siltstone gris foncé à beige pâle. Granulométrie des flocons : 2mm. Pas pyrite rouillé. Pas calcite de fracture visible. Légèrement calcaireux.

650m siltstone (60%) et shale (40%). Shale gris foncé et siltstone gris foncé à beige pâle. Granulométrie des flocons : 2mm. Pas pyrite rouillé. Pas calcite fracture visible. Légèrement calcaireux.

655m siltstone (70%) et shale (30%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 1mm. Quelques grains de pyrite rouillé. Pas calcite de fracture. Légèrement calcaireux.

660m siltstone (75%) et shale (25%). Shale gris foncé et siltstone gris foncé à pâle. granulométrie des flocons : 1mm. Rare grains de pyrite rouillé. Légèrement calcaireux.

665m siltstone (75%) et shale (25%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 1mm. Légèrement calcaireux. Pas pyrite ni calcite de fracture visible.

670m siltstone (70%) et shale (30%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 1 à 2mm. Peu de pyrite. Pas de calcite de fracture. Légèrement calcaireux.

675m siltstone (70%) et shale (30%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 0.5mm. légèrement calcaireux.

680m siltstone (70%) et shale (30%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 0.5mm. légèrement calcaireux.

685m siltstone (70%) et shale (30%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 0.5mm. légèrement calcaireux. Quelques rares grains de pyrite rouilllés.

690m siltstone (50%) et shale (50%). Shale gris foncé, paillette anguleuse. Siltstone gris foncé à pâle, débris arrondis et granuleux. Granulométrie des flocons : 0.5mm. Quelques rares grains de pyrite rouillée. Légèrement calcaireux.

695m siltstone (60%) et shale (40%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 0.5mm. quelques grains de pyrite rouillé. Légèrement calcaireux.

700m siltstone (60%) et shale (40%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 0.5mm. quelques grains pyrites rouillés. Légèrement calcaireux.

705m siltstone (60%) et shale (40%). Shale gris foncé et siltstone gris foncé à pâle. Granulométrie des flocons : 1mm. Traces de calcite de fracture. Quelques grains de pyrite rouillés. Légèrement calcaireux. Note : présence de quelques grains plus foncé de shale (environ 10%).

710m siltstone (40%) et shale (60%). Shale gris foncé à noir et siltstone gris foncé à pâle. Granulométrie des flocons : 1mm. Quelques grains de pyrite rouillés. Très légère réaction à l'acide. Note : grains plus foncé de shale : environ 40%.

715m siltstone (40%) et shale (60%). Shale gris foncé à noir et siltstone gris foncé à pâle. Granulométrie des flocons : 1mm. Quelques grains pyrite rouillé. Traces de calcite de fracture impure (pas transparente). Très légère réaction à l'acide.

720m shale (70%) et siltstone (30%). Shale noir à gris foncé, siltstone gris foncé à pâle. Granulométrie des flocons : 1mm. Quelques grains pyrite rouillés. Quelques morceaux de casing. Légèrement calcaireux.

725m shale (70%) et siltstone (30%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 0.5mm. Quelques grains pyrite rouillés avec morceau de casing. Légèrement calcaireux.

730m shale (75%) et siltstone (25%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 1 à 0.5mm. quelques grains de pyrite rouillés et morceaux de casing. Légèrement calcaireux.

735m shale (65%) et siltstone (35%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 0.5mm. traces de calcite de fracture. Quelques grains rouillés de pyrite et casing. Note : toujours de plus en plus de grains de shale très foncé.

740m shale (70%) et siltstone (30%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 1 à 0.5mm. Quelques grains rouillés de pyrite et casing. Présences de stries (peu). Légèrement calcaireux.

745m shale (75%) et siltstone (25%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 0.5mm. traces de calcite de fracture. Quelques grains rouillés de pyrite et casing. Légèrement calcaireux. Présence de flocon plus grossier : 3-4mm.

750m shale (90%) et siltstone (10%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 0.5mm. traces de calcite de fracture. Présence de morceau (0.5mm) de quartz. Quelques grains rouillés : pyrite et casing. Légèrement calcaireux.

755m shale (95%) et siltstone (5%). Shale noir à gris foncé. Siltstone gris moyen à pâle. Granulométrie des flocons : 2-3mm. Traces de calcite de fracture. Flocon très anguleux. Légèrement calcaireux.

760m shale (95%) et siltstone (5%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 0.5mm. présence de gros flocons anguleux de 2mm. Traces de calcite de fracture. Présence de grains de quartz. Légèrement calcaireux. Grains rouillés.

765m shale (95%) et siltstone (5%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 0.5mm. Quelques gros flocons anguleux : 4.5mm. traces de calcite de fracture. Légèrement calcaireux. Quelques grains plus siliceux.

770m shale (95%) et siltstone (5%). Shale noir à gris foncé. Siltstone gris foncé. Granulométrie des flocons : 0.5mm. Quelques gros flocons anguleux : 4.5mm. traces de calcite de fracture. Légèrement calcaireux. Quelques grains plus siliceux.

775m shale (95%) et siltstone (5%). Shale noir à gris foncé. Siltstone gris moyen. Granulométrie des flocons : 2-3mm. Plusieurs gros flocons anguleux de 5mm. Importante présence de stries et présence de calcite de fracture. Légèrement calcaireux.

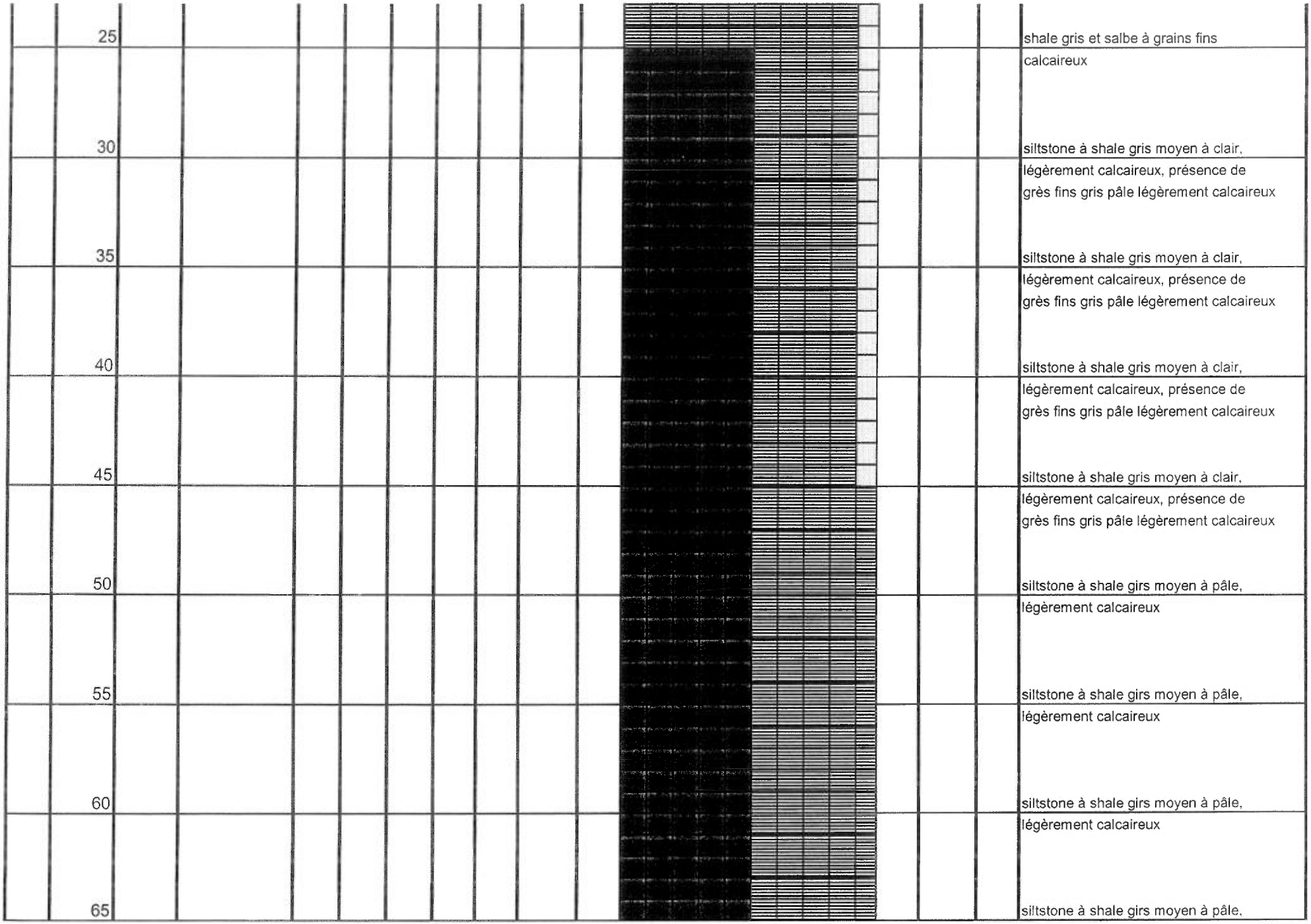
JUNEX inc.

3075, ch. Des Quatre-Bourgeois
Bureau 103,
Québec, (Québec), G1W 4Y5

Nom du puit: JUNEX Bécancour no. 1
Élévation:
Niveau du sol: 7,5 mètres
Table de rotation: 9,5 mètres
Région: Bécancour
Permis: 1996PG950
Coord. UTM: 5 137 680 mN / 699 172 mE Zone 18

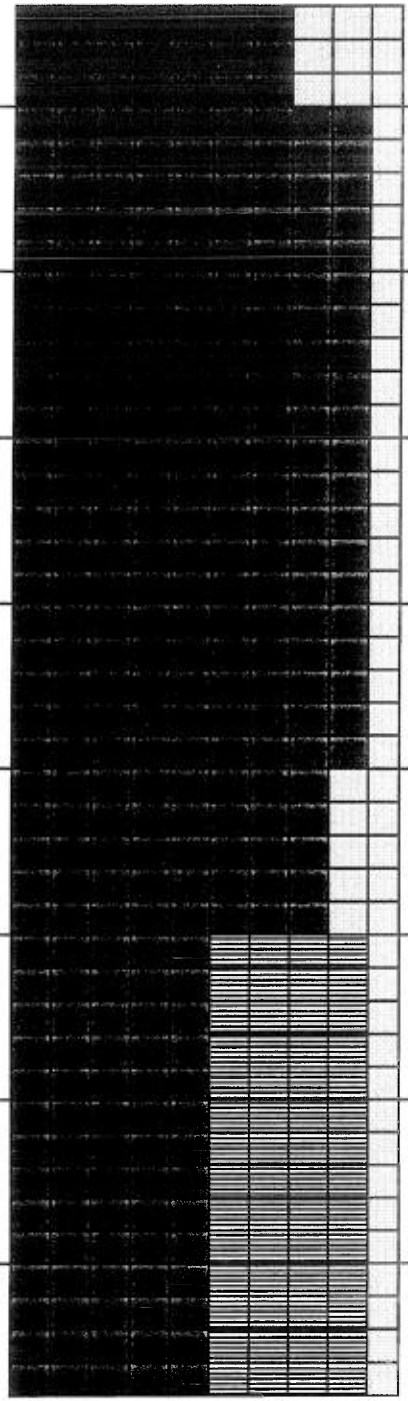
Géologue: Jean-Sébastien Marcil, ing. stag.
Date:
Début: 25 novembre 2000
Fin: 1er octobre 2002 (prévision)
Contracteur: Foragaz inc

Date	Profondeur	Stratigraphie	Taux Avancement (min-mètre) 20	Arpentage du puit x	y	z	Déviation	DST	Gaz total (%) 3 64	Indices	Lithologie %	porosité	Cal/Dol (%) 50	Carottes	Remarques
	5														
-	10														shale gris pâle calcaireux
	15														shale gris pâle et traces de grès
	20														gris moyen, réaction à l'acide
															shale gris pâle et traces de grès
															gris moyen, réaction à l'acide

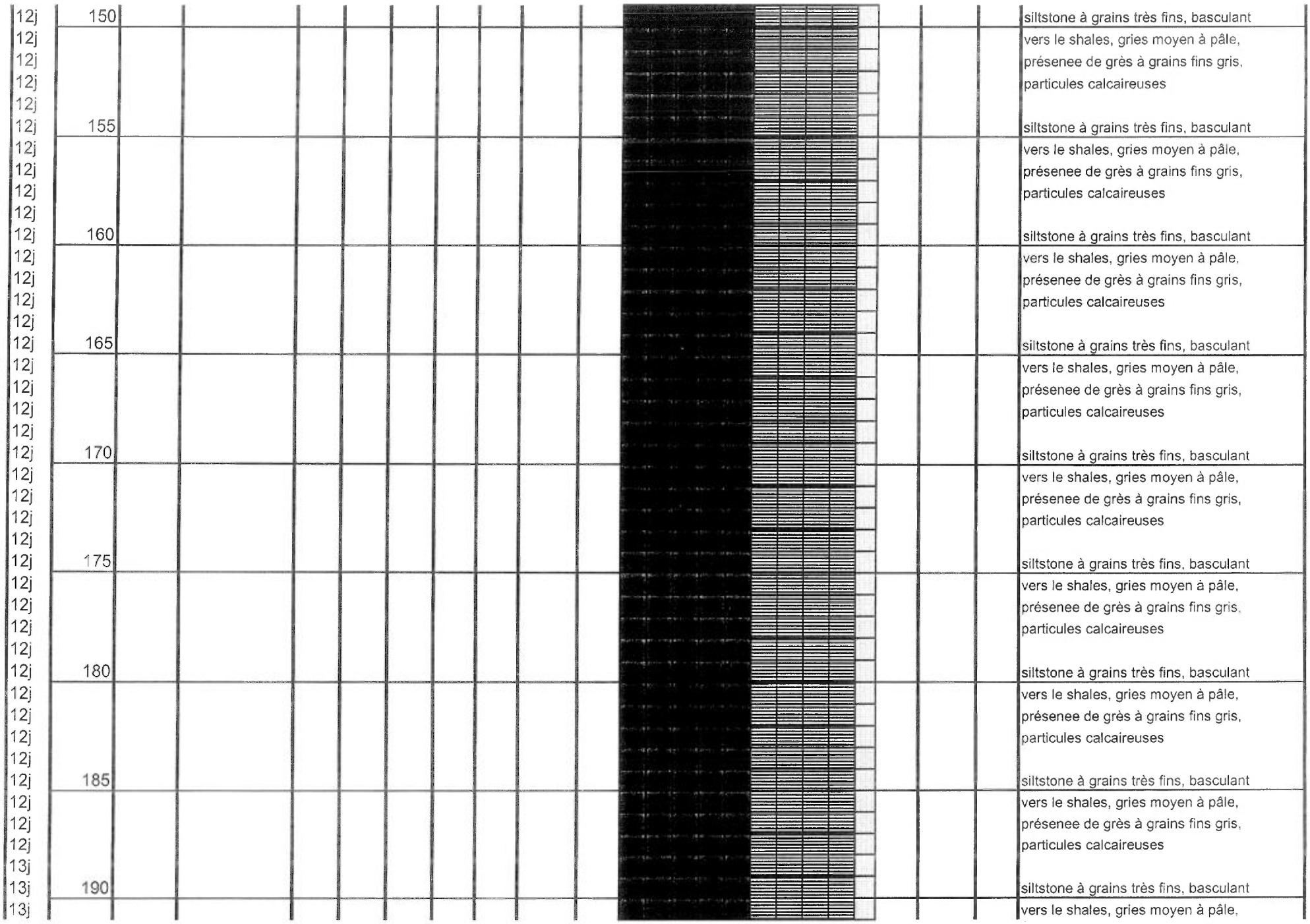


25	shale gris et salbe à grains fins
	calcaireux
30	siltstone à shale gris moyen à clair,
	légèrement calcaireux, présence de
	grès fins gris pâle légèrement calcaireux
35	siltstone à shale gris moyen à clair,
	légèrement calcaireux, présence de
	grès fins gris pâle légèrement calcaireux
40	siltstone à shale gris moyen à clair,
	légèrement calcaireux, présence de
	grès fins gris pâle légèrement calcaireux
45	siltstone à shale gris moyen à clair,
	légèrement calcaireux, présence de
	grès fins gris pâle légèrement calcaireux
50	siltstone à shale girs moyen à pâle,
	légèrement calcaireux
55	siltstone à shale girs moyen à pâle,
	légèrement calcaireux
60	siltstone à shale girs moyen à pâle,
	légèrement calcaireux
65	siltstone à shale girs moyen à pâle,

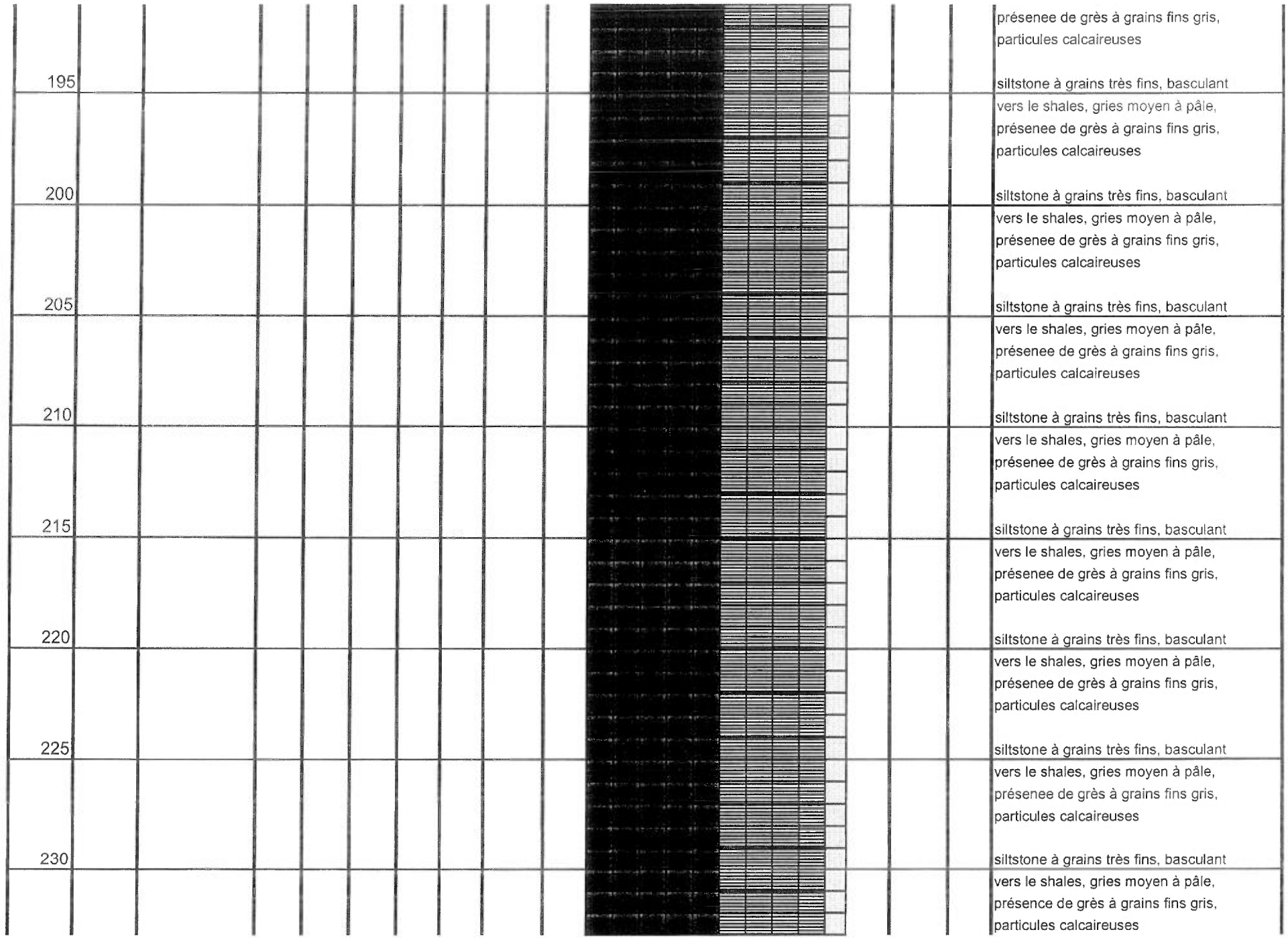
	légèrement calcaireux
70	siltstone gris moyen à clair, calcaireux
	et grès gris pâle à grains fins contient qlqs grains mica.
75	siltstone gris moyen à clair, calcaireux
	et grès gris pâle à grains fins contient qlqs grains mica.
80	siltstone gris moyen à clair, calcaireux
	et grès gris pâle à grains fins contient qlqs grains mica.
85	siltstone gris moyen à clair, calcaireux
	et grès gris pâle à grains fins contient qlqs grains mica.
90	siltstone gris moyen à clair, calcaireux
	et grès gris pâle à grains fins contient qlqs grains mica.
95	siltstone gris moyen à clair, calcaireux
	et grès gris pâle à grains fins contient qlqs grains mica.
100	siltstone gris moyen à clair, calcaireux
	et grès gris pâle à grains fins contient qlqs grains mica.
105	siltstone gris moyen à clair, calcaireux
	et grès gris pâle à grains fins contient qlqs grains mica.



	110	siltstone gris moyen à clair, calcaireux
	115	et grès gris pâle à grains fins contient qlqs grains mica. siltstone gris moyen à clair, calcaireux
	120	et grès gris pâle à grains fins contient qlqs grains mica. siltstone gris moyen à clair, calcaireux
	125	et grès gris pâle à grains fins contient qlqs grains mica. siltstone gris moyen à clair, calcaireux
11j	130	et grès gris pâle à grains fins contient qlqs grains mica. siltstone gris moyen à clair, calcaireux
11j 11j 11j 11j 11j	135	et grès gris pâle à grains fins contient qlqs grains mica. siltstone gris moyen à clair, calcaireux
11j 11j 12j 12j 12j	140	et grès gris pâle à grains fins contient qlqs grains mica. siltstone à grains très fins, basculant
12j 12j 12j 12j 12j	145	vers le shales, gries moyen à pâle, présence de grès à grains fins gris, particules calcaireuses siltstone à grains très fins, basculant
12j 12j 12j 12j		vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses

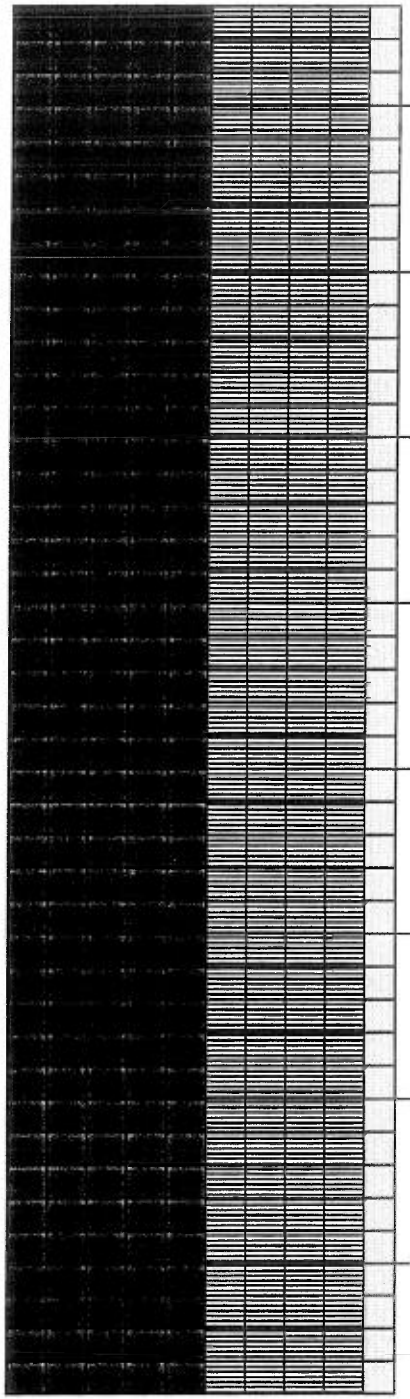


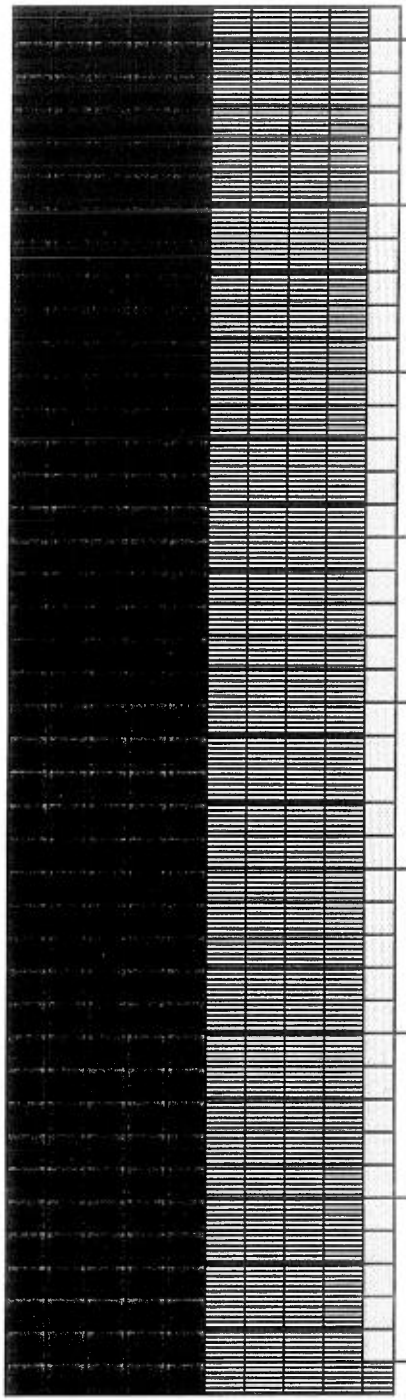
12j	150	siltstone à grains très fins, basculant
12j		vers le shales, gries moyen à pâle,
12j		présenee de grès à grains fins gris,
12j		particules calcaireuses
12j		
12j	155	siltstone à grains très fins, basculant
12j		vers le shales, gries moyen à pâle,
12j		présenee de grès à grains fins gris,
12j		particules calcaireuses
12j		
12j	160	siltstone à grains très fins, basculant
12j		vers le shales, gries moyen à pâle,
12j		présenee de grès à grains fins gris,
12j		particules calcaireuses
12j		
12j	165	siltstone à grains très fins, basculant
12j		vers le shales, gries moyen à pâle,
12j		présenee de grès à grains fins gris,
12j		particules calcaireuses
12j		
12j	170	siltstone à grains très fins, basculant
12j		vers le shales, gries moyen à pâle,
12j		présenee de grès à grains fins gris,
12j		particules calcaireuses
12j		
12j	175	siltstone à grains très fins, basculant
12j		vers le shales, gries moyen à pâle,
12j		présenee de grès à grains fins gris,
12j		particules calcaireuses
12j		
12j	180	siltstone à grains très fins, basculant
12j		vers le shales, gries moyen à pâle,
12j		présenee de grès à grains fins gris,
12j		particules calcaireuses
12j		
12j	185	siltstone à grains très fins, basculant
12j		vers le shales, gries moyen à pâle,
12j		présenee de grès à grains fins gris,
12j		particules calcaireuses
13j		
13j	190	siltstone à grains très fins, basculant
13j		vers le shales, gries moyen à pâle,

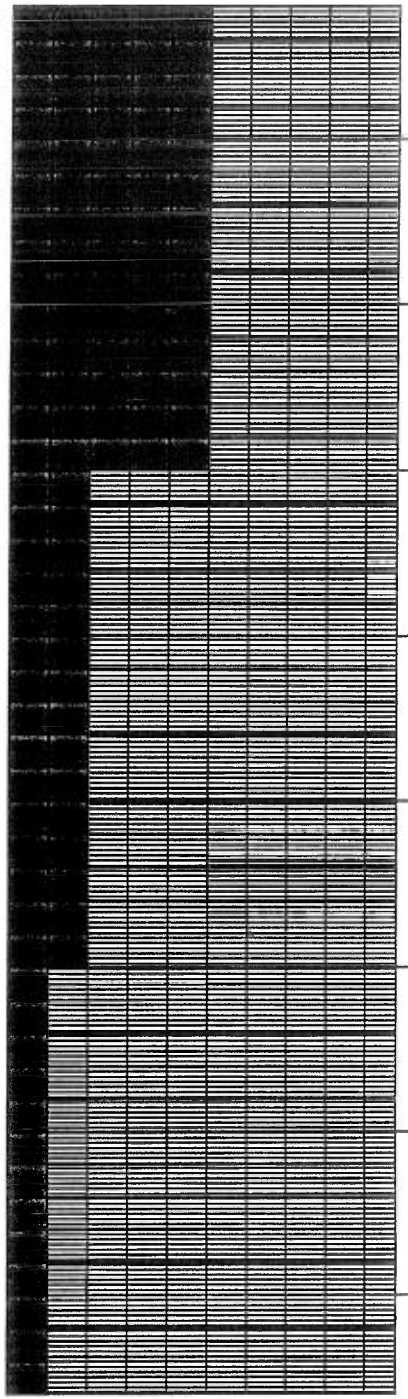

13j
195
présenee de grès à grains fins gris, particules calcaireuses
siltstone à grains très fins, basculant
13j
200
vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
siltstone à grains très fins, basculant
13j
205
vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
siltstone à grains très fins, basculant
13j
210
vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
siltstone à grains très fins, basculant
13j
215
vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
siltstone à grains très fins, basculant
13j
220
vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
siltstone à grains très fins, basculant
13j
225
vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
siltstone à grains très fins, basculant
13j
230
vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
siltstone à grains très fins, basculant
13j
vers le shales, gries moyen à pâle, présence de grès à grains fins gris, particules calcaireuses

13j																
13j	235															siltstone à grains très fins, basculant
13j																vers le shales, gries moyen à pâle,
13j																présenee de grès à grains fins gris,
13j																particules calcaireuses
13j																
14j	240															siltstone à grains très fins, basculant
14j																vers le shales, gries moyen à pâle,
14j																présenee de grès à grains fins gris,
14j																particules calcaireuses
14j																
14j	245															siltstone à grains très fins, basculant
14j																vers le shales, gries moyen à pâle,
14j																présenee de grès à grains fins gris,
14j																particules calcaireuses
14j																
14j	250															siltstone à grains très fins, basculant
14j																vers le shales, gries moyen à pâle,
14j																présenee de grès à grains fins gris,
14j																particules calcaireuses
14j																
14j	255															siltstone à grains très fins, basculant
14j																vers le shales, gries moyen à pâle,
14j																présenee de grès à grains fins gris,
14j																particules calcaireuses
14j																
14j	260															siltstone à grains très fins, basculant
14j																vers le shales, gries moyen à pâle,
14j																présenee de grès à grains fins gris,
14j																particules calcaireuses
14j																
14j	265															siltstone à grains très fins, basculant
14j																vers le shales, gries moyen à pâle,
14j																présenee de grès à grains fins gris,
14j																particules calcaireuses
14j																
14j	270															siltstone à grains très fins, basculant
14j																vers le shales, gries moyen à pâle,
14j																présenee de grès à grains fins gris,
14j																particules calcaireuses
14j																
14j	275															siltstone à grains très fins, basculant

14j																	vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
14j																	
14j																	
14j																	
14j	280																siltstone à grains très fins, basculant
14j																	vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
14j																	
14j																	
15j																	
15j	285																siltstone à grains très fins, basculant
15j																	vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
15j																	
15j																	
15j																	
15j	290																siltstone à grains très fins, basculant
15j																	vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
15j																	
15j																	
15j																	
15j	295																siltstone à grains très fins, basculant
15j																	vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
15j																	
15j																	
15j																	
15j	300																siltstone à grains très fins, basculant
15j										gaz							vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses **début indice de gaz**
15j										gaz							
15j										gaz							
15j										gaz							
15j	305									gaz							siltstone à grains très fins, basculant
15j										gaz							vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
15j										gaz							
15j										gaz							
15j										gaz							
15j	310									gaz							siltstone à grains très fins, basculant
15j										gaz							vers le shales, gries moyen à pâle, présenee de grès à grains fins gris, particules calcaireuses
15j										gaz							
15j										gaz							
15j										gaz							
15j	315									gaz							siltstone à grains très fins, basculant
15j										gaz							vers le shales, gries moyen à pâle, présenee de grès à grains fins gris,
15j										gaz							

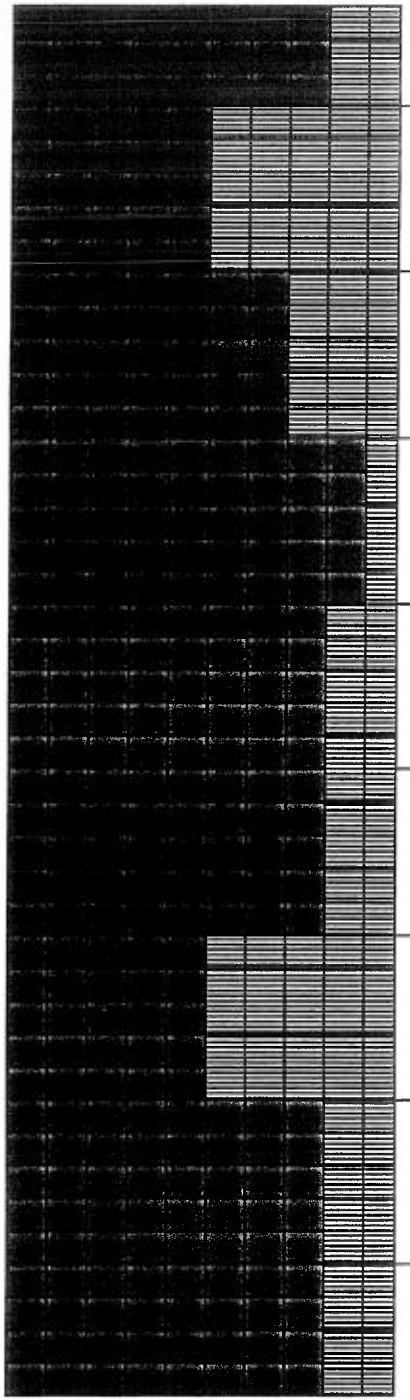
15j										gaz				particules calcaireuses
15j										gaz				
15j	320									gaz				siltstone à grains très fins, basculant
15j										gaz				vers le shales, gries moyen à pâle,
16j										gaz				présenee de grès à grains fins gris,
16j										gaz				particules calcaireuses
16j										gaz				
16j	325									gaz				siltstone à grains très fins, basculant
16j										gaz				vers le shales, gries moyen à pâle,
16j										gaz				présenee de grès à grains fins gris,
16j										gaz				particules calcaireuses
16j										gaz				
16j	330									gaz				siltstone à grains très fins, basculant
16j										gaz				vers le shales, gries moyen à pâle,
16j										gaz				présenee de grès à grains fins gris,
16j										gaz				particules calcaireuses
16j										gaz				**début indice de gaz**
16j	335									gaz				siltstone à grains très fins, basculant
16j										gaz				vers le shales, gries moyen à pâle,
16j										gaz				présenee de grès à grains fins gris,
16j										gaz				particules calcaireuses
16j										gaz				
16j	340									gaz				siltstone à grains très fins, basculant
16j										gaz				vers le shales, gries moyen à pâle,
16j										gaz				présenee de grès à grains fins gris,
16j										gaz				particules calcaireuses
16j										gaz				
16j	345									gaz				siltstone à grains très fins, basculant
16j										gaz				vers le shales, gries moyen à pâle,
16j										gaz				présenee de grès à grains fins gris,
16j										gaz				particules calcaireuses
16j										gaz				
16j	350									gaz				siltstone à grains très fins, basculant
17 j							5.5			gaz				vers le shales, gries moyen à pâle,
20j										gaz				présenee de grès à grains fins gris,
20j										gaz				particules calcaireuses
20j										gaz				
20j	355									gaz				siltstone à grains très fins, basculant
20j										gaz				vers le shales, gries moyen à pâle,
20j										gaz				présenee de grès à grains fins gris,
20j										gaz				particules calcaireuses
20j										gaz				

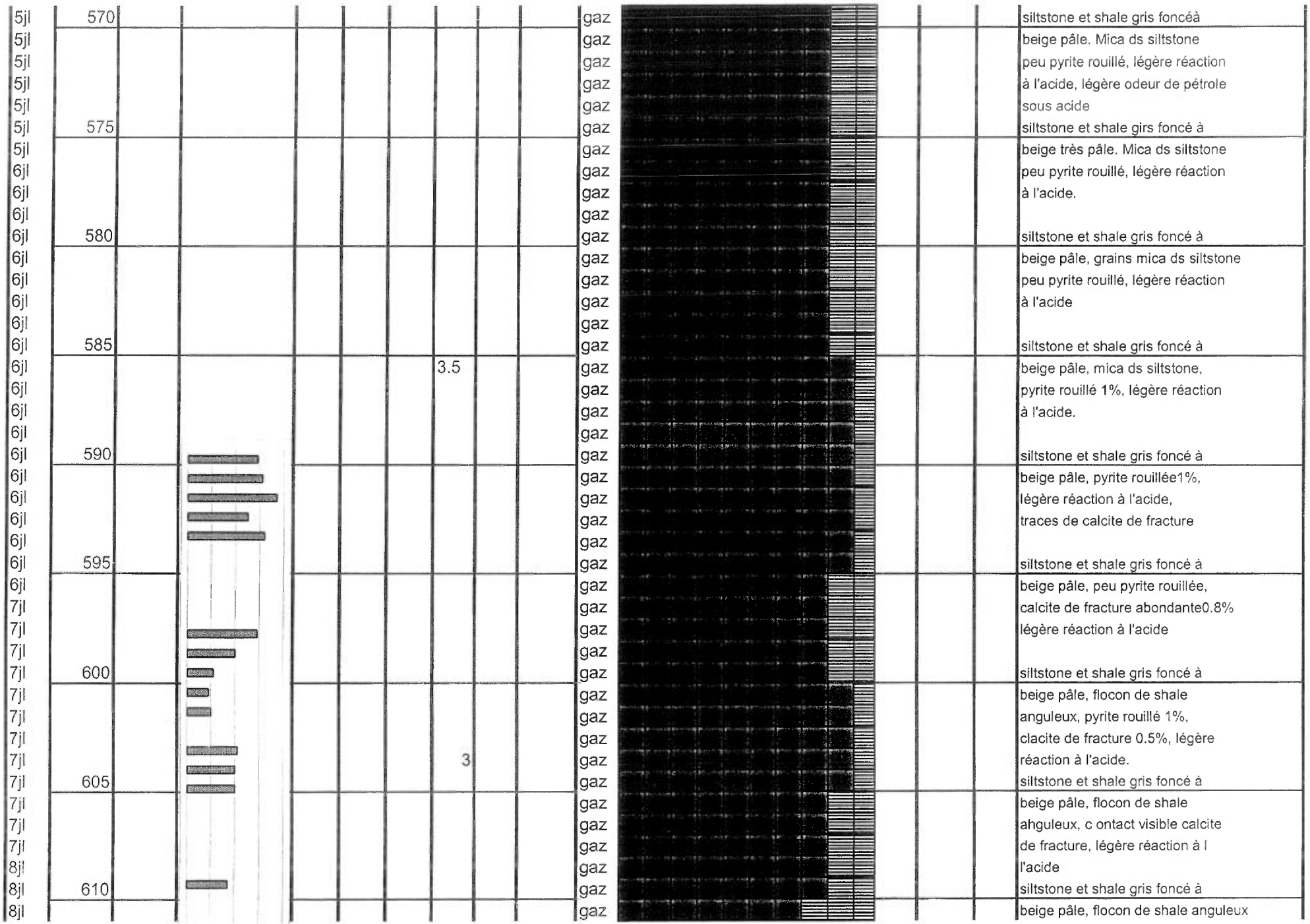
20j	360									gaz				siltstone à grains très fins, basculant
20j										gaz				vers le shales, gries moyen à pâle,
20j										gaz				présenee de grès à grains fins gris,
20j										gaz				particules calcaireuses
20j										gaz				
20j	365									gaz				siltstone à grains très fins, basculant
20j										gaz				vers le shales, gries moyen à pâle,
20j										gaz				présenee de grès à grains fins gris,
20j										gaz				particules calcaireuses
20j										gaz				
20j	370						5.75			gaz				siltstone à grains très fins, basculant
20j										gaz				vers le shales, gries moyen à pâle,
20j										gaz				présenee de grès à grains fins gris,
20j										gaz				particules calcaireuses
20j										gaz				
20j	375									gaz				siltstone à grains très fins, basculant
20j										gaz				vers le shales, gries moyen à pâle,
20j										gaz				présenee de grès à grains fins gris,
20j										gaz				particules calcaireuses
20j										gaz				
20j	380									gaz				siltstone à grains très fins, basculant
20j										gaz				vers le shales, gries moyen à pâle,
20j										gaz				présenee de grès à grains fins gris,
20j										gaz				particules calcaireuses
20j										gaz				
20j	385									gaz				siltstone à grains très fins, basculant
20j										gaz				vers le shales, gries moyen à pâle,
20j										gaz				présenee de grès à grains fins gris,
20j										gaz				particules calcaireuses
20j										gaz				
21j	390						5			gaz				siltstone à grains très fins, basculant
21j										gaz				vers le shales, gries moyen à pâle,
21j										gaz				présenee de grès à grains fins gris,
21j										gaz				particules calcaireuses
21j										gaz				
21j	395									gaz				siltstone à grains très fins, basculant
21j										gaz				vers le shales, gries moyen à pâle,
21j										gaz				présenee de grès à grains fins gris,
21j										gaz				particules calcaireuses
21j										gaz				
21j	400									gaz				siltstone à grains très fins, basculant
21j										gaz				vers le shales, gries moyen à pâle,

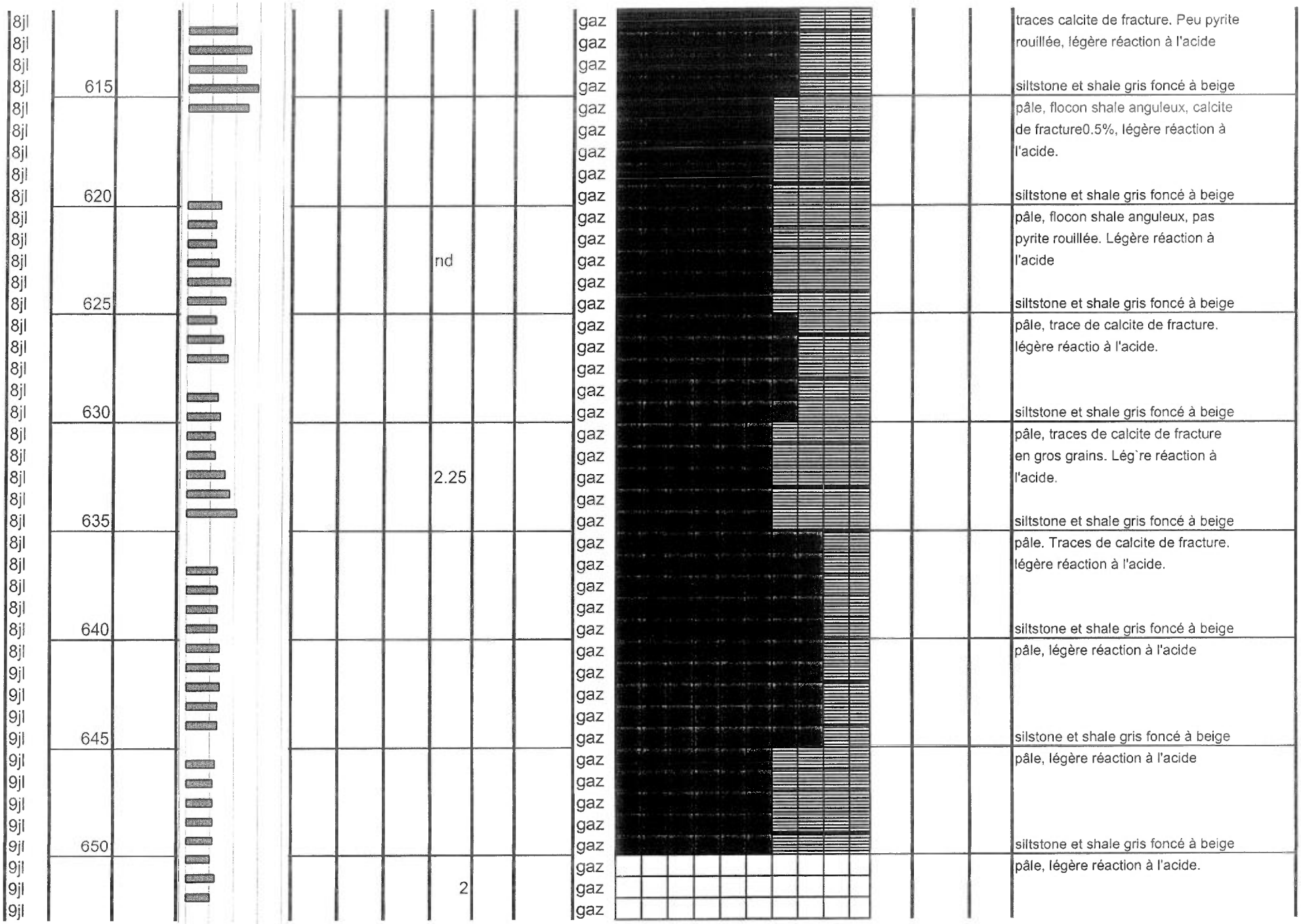
21j											gaz		présenee de grès à grains fins gris,
21j											gaz		particules calcaireuses
21j											gaz		
21j	405										gaz		shle gris foncé avec qlqs prisence
21j											gaz		de siltstone
21j											gaz		
21j											gaz		
21j							6				gaz		
21j	410										gaz		shale entremêlé de siltstone
21j											gaz		
21j											gaz		
21j											gaz		
21j											gaz		
21j	415										gaz		shale et siltstone gris foncé
21j											gaz		
21j											gaz		
21j											gaz		
21j											gaz		
21j	420										gaz		shale et siltstone gris foncé,
21j											gaz		flocon très anguleux
21j											gaz		
21j											gaz		
21j											gaz		
21j	425										gaz		shale et siltstone gris foncé,
21j											gaz		flocon sub-anguleux
21j											gaz		
22j							5.75				gaz		
22j											gaz		
22j	430										gaz		shale et siltstone gris foncé,
22j											gaz		présence de pyrite rouillé
22j											gaz		
22j											gaz		
22j											gaz		
22j	435										gaz		shale et siltstone gis foncé,
22j											gaz		présence de pyrite rouillé1%
22j											gaz		
22j											gaz		
22j											gaz		
22j	440										gaz		shale et siltstone gris foncé ,
22j											gaz		flocon anguleux
22j											gaz		
22j											gaz		

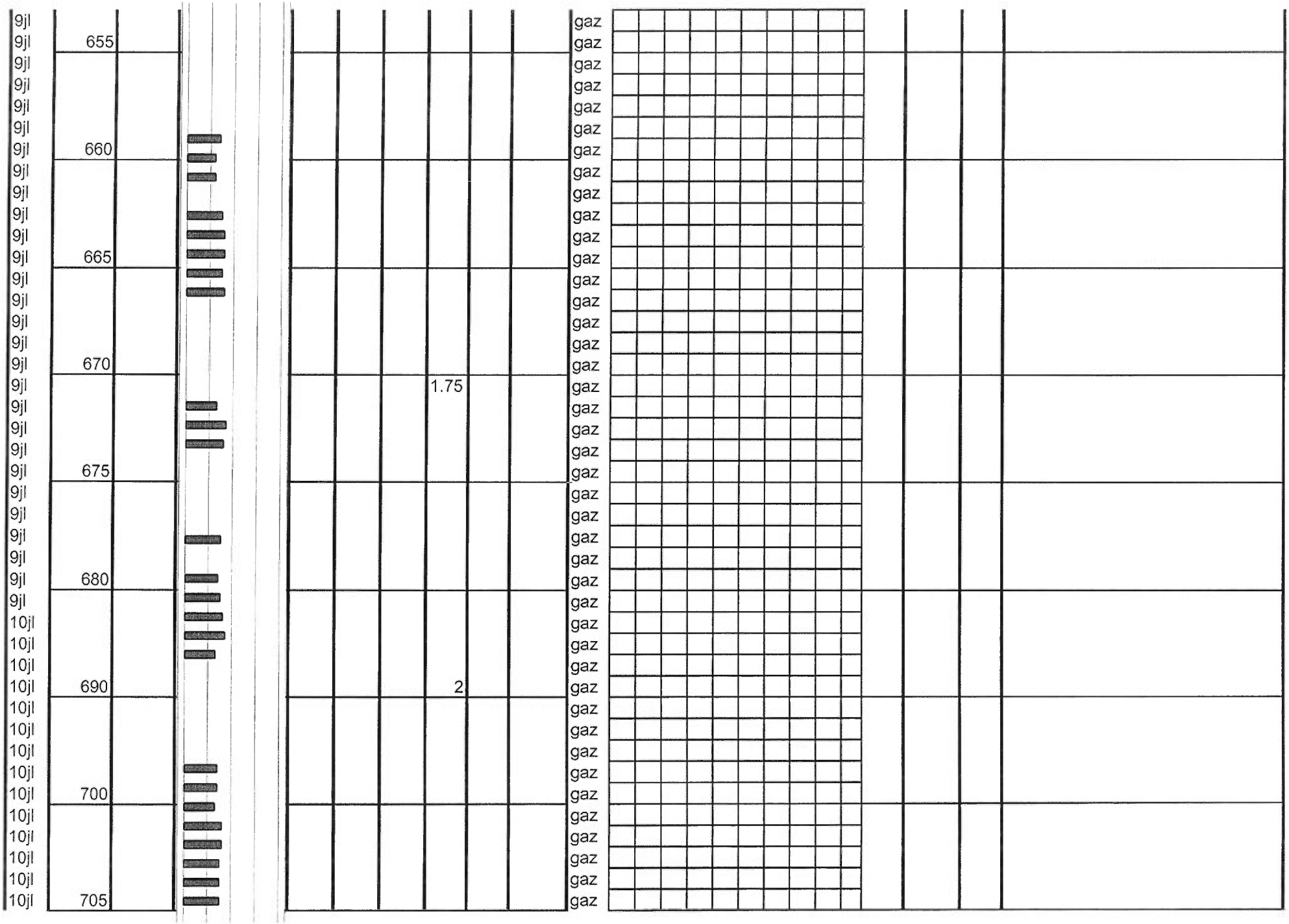
22j										gaz			
22j	445									gaz			shale et siltstone gris foncé,
22j										gaz			flocon anguleux
22j										gaz			
22j							4.75			gaz			
22j										gaz			
22j	450									gaz			shale et siltstone gris foncé
22j										gaz			flpcon anguleux
22j										gaz			
22j										gaz			
23j										gaz			
23j	455									gaz			shale et siltstone gris foncé
23j										gaz			très légère odeur d'huile, flccon
23j										gaz			anguleux
23j										gaz			
23j										gaz			
23j	460									gaz			shale et siltstone gris foncé,
23j										gaz			présence de pyrite couleur rouille,
23j										gaz			calcite de fracture
23j										gaz			
23j										gaz			
23j	465									gaz			shale et siltstone, gris foncé,
23j										gaz			présence de qulqs pyrite rouillé
23j							5			gaz			
24j										gaz			
24j										gaz			
24j	470									gaz			shale et siltstone gris foncé,
24j										gaz			présence de calcite de fracture
24j										gaz			
24j										gaz			
24j										gaz			
24j	475									gaz			shle et diltstone gris foncé,
24j										gaz			présence de pyrite rouillés
25j										gaz			calcite de fracture
25j										gaz			
25j										gaz			
25j	480									gaz			shale et siltstone gris foncé,
25j										gaz			présence de pyrite rouillé1%
25j										gaz			calcite de fracture
25j										gaz			
25j										gaz			
25j	485									gaz			shale et siltstone girs foncé,

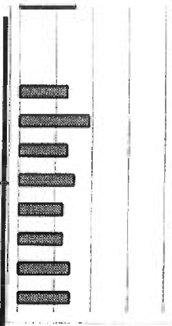
25j		4.1	gaz	veine de calcite visibl e dans
25j			gaz	les retailles
25j			gaz	
25j			gaz	
25j	490		gaz	shale et siltstone gris foncé,
25j			gaz	présence de pyrite rouillé
25j			gaz	calcite de fracture
26j			gaz	
26j			gaz	
26j	495		gaz	shale et siltstone gris foncé
26j			gaz	calcite de fracture
26j			gaz	
26j			gaz	
26j			gaz	
26j	500		gaz	shale et siltstone gris foncé
26j			gaz	calcite de fracture
26j			gaz	
26j			gaz	
26j			gaz	
26j	505		gaz	shale et siltstone gris foncé
27j		4.35	gaz	
30j			gaz	
30j			gaz	
30j			gaz	
30j	510		gaz	siltstone et shale gris foncé à
1jl			gaz	beige pâle, mica ds siltstone
1jl			gaz	pyrite rouillé1%, calcite de fracture
1jl			gaz	légère réaction à l'acide
1jl			gaz	
1jl	515		gaz	siltstone et shale gris foncé à
1jl			gaz	beige pâle, mica ds siltstone
1jl			gaz	pyrite rouillé0.7%, légère réaction
1jl			gaz	à l'acide
1jl			gaz	
1jl	520		gaz	siltstone et shale gis foncé à
1jl			gaz	beige pâle, mica ds siltstone
1jl			gaz	peu pyrite rouillé, légère réaction
1jl			gaz	à l'acide
1jl			gaz	
1jl	525		gaz	slitstone et shale gris foncé à
1jl			gaz	beige pâle. Mica ds siltstone,
1jl		4.5	gaz	peu pyrite rouillé, légère réaction

1jl										gaz			à l'acide
1jl										gaz			
1jl	530									gaz			siltstone et shale gris foncé à
1jl										gaz			beige pâle.Mica ds siltstone,
1jl										gaz			pyrite rouillé 1%, légère réaction
2jl										gaz			à l'acide
2jl										gaz			
2jl	535									gaz			siltstone et shale gris foncé à
2jl										gaz			beige pâle. Mica ds siltstone,
2jl										gaz			pyrite rouillé1%, légère réaction
2jl										gaz			à l'acide
2jl										gaz			
2jl	540									gaz			siltstone et shale gris foncé à
2jl										gaz			beige pâle, mica ds siltstone,
2jl										gaz			pyrite rouillé 1%, légère réaction
2jl										gaz			à l'acide
2jl										gaz			
2jl	545									gaz			siltstone et shale gris foncé à
3jl										gaz			beige pâle, mica ds siltstone,
3jl							4.5			gaz			peu pyrite rouillé, légère réaction
3jl										gaz			à l'acide
3jl										gaz			
3jl	550									gaz			siltstone et shale girs foncé à
3jl										gaz			beige pâle, mica ds siltstone
3jl										gaz			pyrite rouillé1%, légère réaction
3jl										gaz			à l'acide
3jl										gaz			
3jl	555									gaz			siltstone et shale gris foncé à
3jl										gaz			beige pâle, mica ds siltstone
4jl										gaz			pyrite rouillé1%, légère réaction
4jl										gaz			à l'acide
4jl										gaz			
4jl	560									gaz			siltstone et shale gris foncé à
5jl										gaz			beige pâle, mica ds siltstone
5jl										gaz			pyrite rouillé2%, bitume3%,
5jl										gaz			calcite de fracture avec bitume
5jl										gaz			réaction à l'acide
5jl	565									gaz			siltstone et shale gris foncé à
5jl										gaz			beige pâle, mica ds siltstone
5jl							3.5			gaz			peu pyrite rouillé, légère réaction
5jl										gaz			à l'acide
5jl										gaz			


5jl
570
gaz
siltstone et shale gris foncéà
beige pâle. Mica ds siltstone
peu pyrite rouillé, légère réaction
à l'acide, légère odeur de pétrole
sous acide
575
siltstone et shale girs foncé à
beige très pâle. Mica ds siltstone
peu pyrite rouillé, légère réaction
à l'acide.
580
siltstone et shale gris foncé à
beige pâle, grains mica ds siltstone
peu pyrite rouillé, légère réaction
à l'acide
585
siltstone et shale gris foncé à
3.5
beige pâle, mica ds siltstone,
pyrite rouillé 1%, légère réaction
à l'acide.
590
siltstone et shale gris foncé à
beige pâle, pyrite rouillée1%,
légère réaction à l'acide,
traces de calcite de fracture
595
siltstone et shale gris foncé à
beige pâle, peu pyrite rouillée,
calcite de fracture abondante0.8%
légère réaction à l'acide
600
siltstone et shale gris foncé à
beige pâle, flocon de shale
anguleux, pyrite rouillé 1%,
clacite de fracture 0.5%, légère
réaction à l'acide.
3
605
siltstone et shale gris foncé à
beige pâle, flocon de shale
ahguleux, c ontact visible calcite
de fracture, légère réaction à l
l'acide
610
siltstone et shale gris foncé à
beige pâle, flocon de shale anguleux


8jl
615
620
625
630
635
640
9jl
645
650
nd
2.25
2
gaz
traces calcite de fracture. Peu pyrite rouillée, légère réaction à l'acide
siltstone et shale gris foncé à beige
pâle, flocon shale anguleux, calcite de fracture0.5%, légère réaction à l'acide.
siltstone et shale gris foncé à beige
pâle, flocon shale anguleux, pas pyrite rouillée. Légère réaction à l'acide
siltstone et shale gris foncé à beige
pâle, trace de calcite de fracture. légère réactio à l'acide.
siltstone et shale gris foncé à beige
pâle, traces de calcite de fracture en gros grains. Lég`re réaction à l'acide.
siltstone et shale gris foncé à beige
pâle. Traces de calcite de fracture. légère réaction à l'acide.
siltstone et shale gris foncé à beige
pâle, légère réaction à l'acide
silstone et shale gris foncé à beige
pâle, légère réaction à l'acide
siltstone et shale gris foncé à beige
pâle, légère réaction à l'acide.


9jl
655
660
665
670
675
680
690
700
705
10jl
1.75
2
gaz



10jl		gaz
10jl		gaz
10jl		gaz
10jl		gaz
10jl	710	gaz
10jl		gaz
10jl		gaz
10jl		gaz
10jl		gaz
11jl	720	gaz
11jl		
11jl		
11jl		
11jl		
11jl	725	
11jl		
11jl		
11jl		
11jl		
11jl	730	
11jl		
11jl		
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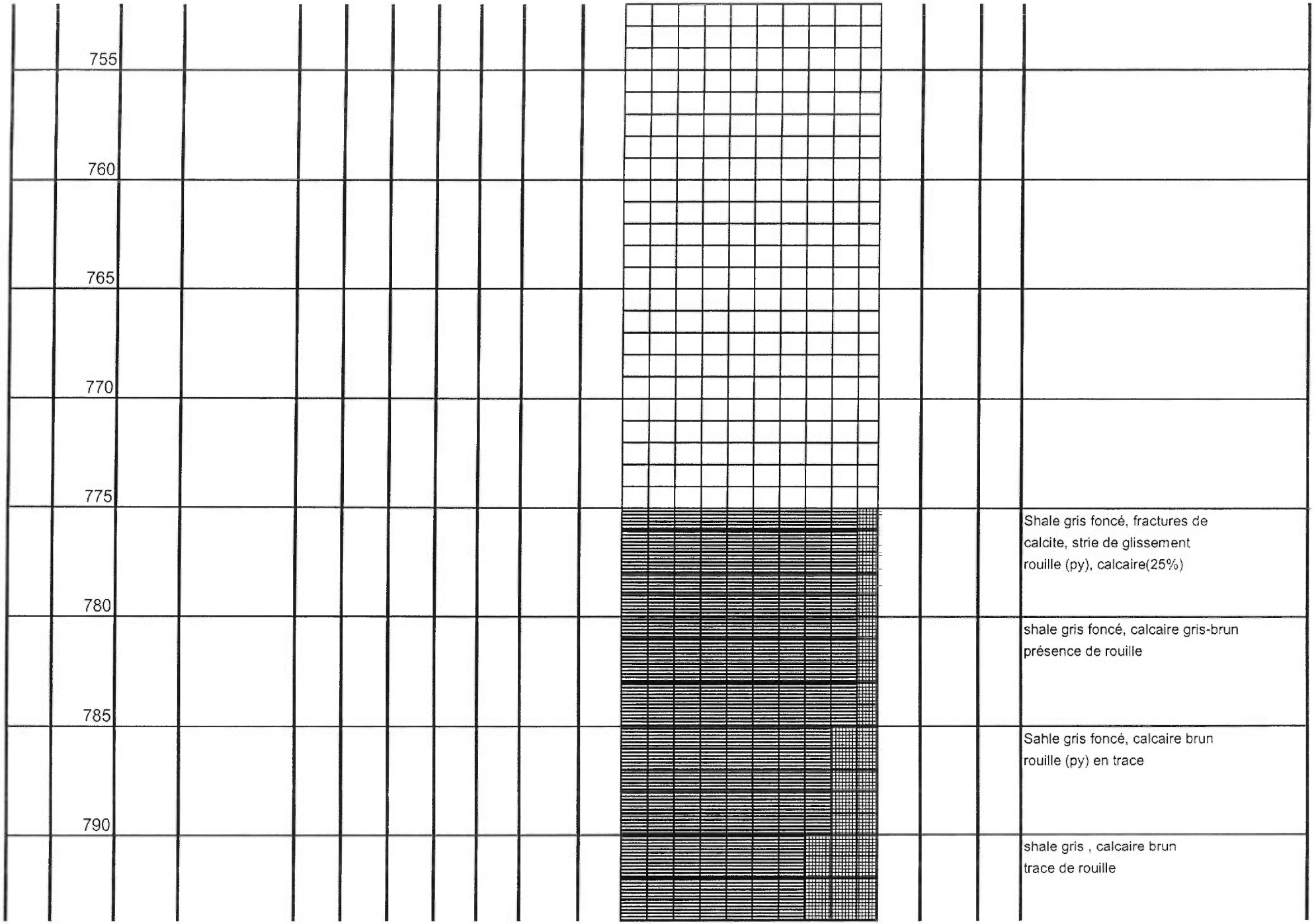
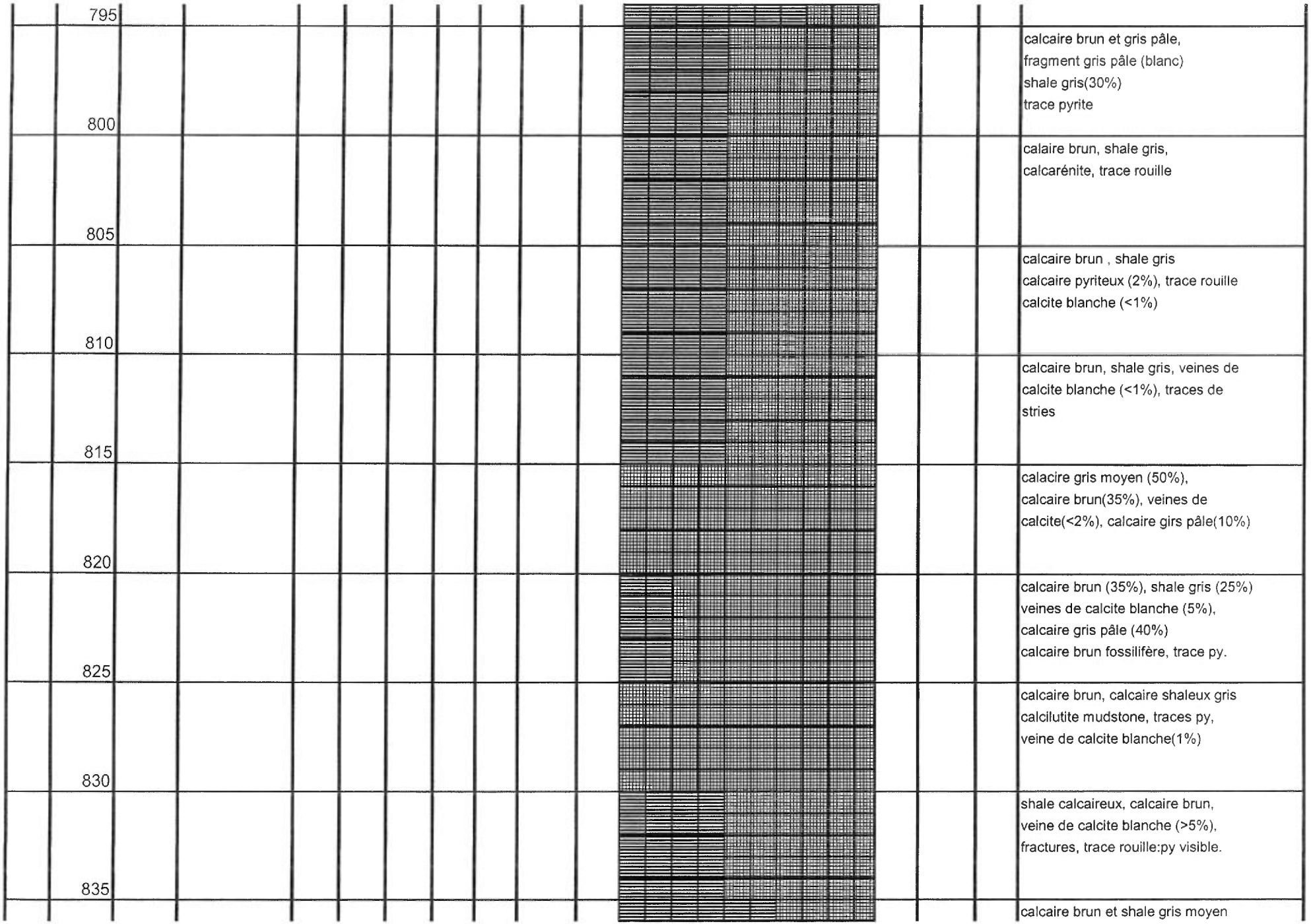
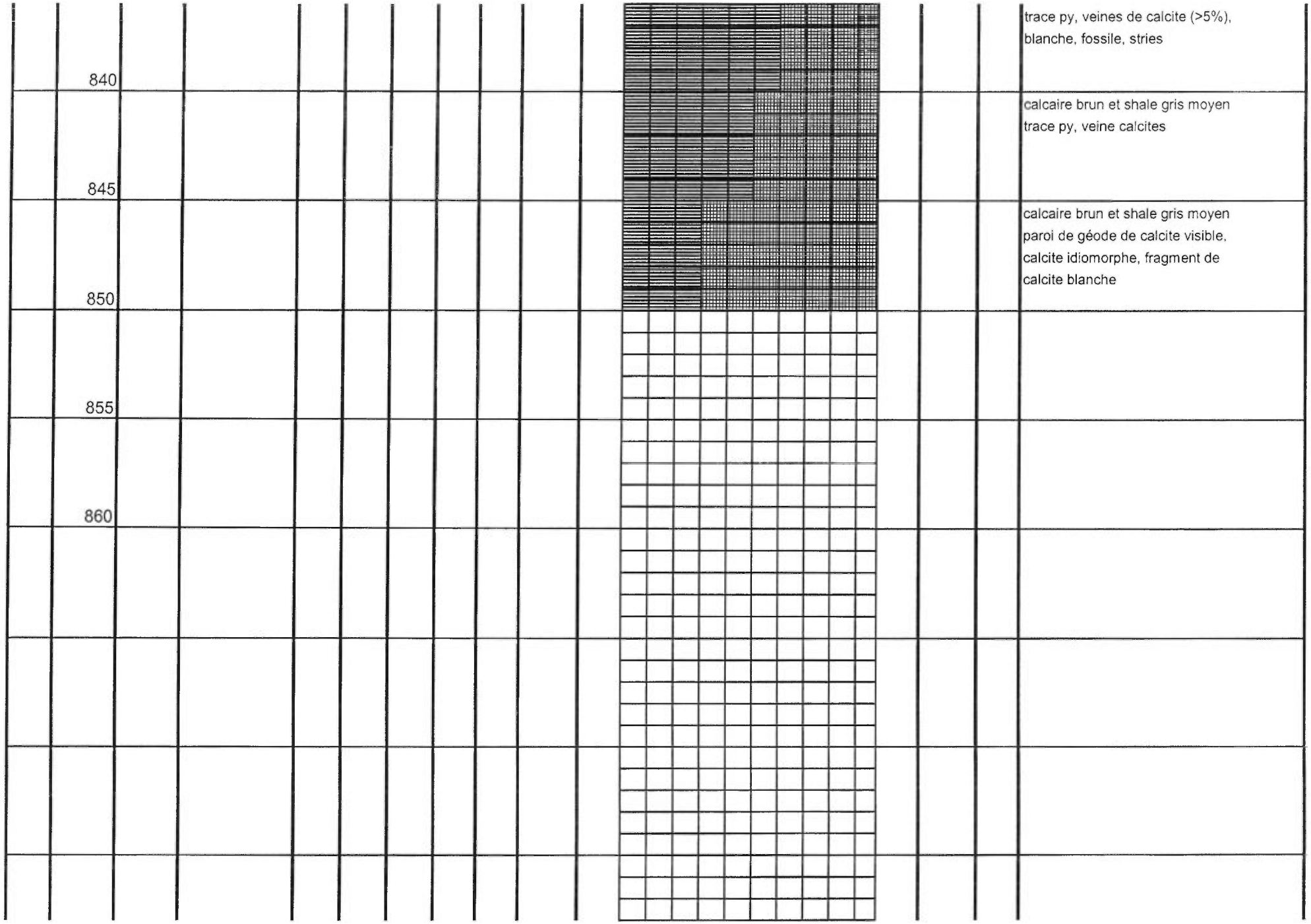
11jl		
11jl	735	
11jl		
11jl		
11jl		
11jl		
11jl	740	
11jl		
11jl		
11jl		
11jl		
11jl	745	
11jl		
11jl		
11jl		
11jl		
11jl	750	


755
760
765
770
775
780
785
790
Shale gris foncé, fractures de calcite, strie de glissement rouille (py), calcaire(25%)
shale gris foncé, calcaire gris-brun présence de rouille
Sahle gris foncé, calcaire brun rouille (py) en trace
shale gris , calcaire brun trace de rouille


795
800
805
810
815
820
825
830
835
calcaire brun et gris pâle,
fragment gris pâle (blanc)
shale gris(30%)
trace pyrite
calaire brun, shale gris,
calcarénite, trace rouille
calcaire brun , shale gris
calcaire pyriteux (2%), trace rouille
calcite blanche (<1%)
calcaire brun, shale gris, veines de
calcite blanche (<1%), traces de
stries
calacire gris moyen (50%),
calcaire brun(35%), veines de
calcite(<2%), calcaire girs pâle(10%)
calcaire brun (35%), shale gris (25%)
veines de calcite blanche (5%),
calcaire gris pâle (40%)
calcaire brun fossilifère, trace py.
calcaire brun, calcaire shaleux gris
calcilutite mudstone, traces py,
veine de calcite blanche(1%)
shale calcaireux, calcaire brun,
veine de calcite blanche (>5%),
fractures, trace rouille:py visible.
calcaire brun et shale gris moyen


840
845
850
855
860
trace py, veines de calcite (>5%), blanche, fossile, stries
calcaire brun et shale gris moyen trace py, veine calcites
calcaire brun et shale gris moyen paroi de géode de calcite visible, calcite idiomorphe, fragment de calcite blanche