

# GM 34198

RAPPORT TECHNIQUE STATUAIRE SISMIQUE 1978-1979, BASSES TERRES DU ST-LAURENT ET REGION DE RIVIERE-DU-LOUP

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Énergie et Ressources  
naturelles

Québec 

RAPPORT TECHNIQUE STATUTAIRE  
SISMIQUE 1978-1979  
BASSES TERRES DU ST-LAURENT  
ET  
REGION DE RIVIERE-DU-LOUP

Rapport # 10355

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SERVICE DE LA  
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I- AVANT-PROPOS

Le 7 juillet 1978 une entente était convenue entre SOQUIP et Géosource Inc., à l'effet que SOQUIP désirait obtenir des données de sismique réflexion sur les territoires dont elle détenait les permis et Géosource Inc. s'engageait à effectuer ces travaux de sismique, ayant la technologie et le personnel dûment qualifié.

II- RESUME

L'équipe sismique 6850 de Géosource Inc. a travaillé du 1er août au 5 septembre 1978, du 23 septembre au 25 septembre 1978 et du 10 novembre 1978 au 28 février 1979 à l'acquisition de 485.28 kilomètres de sismique réflexion sur différents permis de SOQUIP (annexes 1 et 2).

Le programme sismique a été complété en entier et les différentes clauses du contrat ont bien été respectées par les deux parties.

SOQUIP s'est engagée à acquérir les droits de passage ainsi que les droits de coupe de bois lorsque les profils quittaient la voie publique. Au total, 149 permis de droits de passage ont été obtenus par le domaine minier.

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Un contremaître de SOQUIP veillait à la bonne marche et à la synchronisation des travaux d'ouverture de lignes, tandis qu'un géophysicien contrôlait la qualité des enregistrements sismiques.

### III- INTRODUCTION

#### III-1 But du relevé sismique

Au printemps 1978, à la suite des recommandations géologiques et géophysiques qui succédèrent l'analyse des données acquises dans les Basses Terres et dans la région de Rivière-du-Loup, SOQUIP envisagea dès lors la possibilité de parfaire ses connaissances de la sous surface de ces territoires. Elle ordonna la mise en oeuvre d'un programme sismique pour l'été et l'automne suivant.

#### III-2 Les objectifs du relevé sismique

Le programme sismique SOQUIP-1978 touche aux quatre grandes zones tectoniques des Basses Terres du St-Laurent. De ce fait, les objectifs en vue de repérer des structures favorables à l'emmagasinement des hydrocarbures en sont d'autant plus variés. Le tableau 1 illustre les différentes cibles ayant fait l'objet de ce relevé.

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TABLEAU 1

REGION	PROFIL	OBJECTIFS
Trois-Rivières	78-808	
Trois-Rivières	78-809	
Trois-Rivières	78-816	
Cap-de-la-Madeleine	78-810	Plateforme peu profonde et reconnaissance
Champlain	78-801	
Champlain	78-811	
Baptiscan	78-812	
Ste-Anne	78-813	
Nicolet	78-802	
Nicolet	78-803	
Nicolet	78-804	Hauts structuraux de la plateforme peu profonde
Bécancour	78-805	
Bécancour	78-806	
Bécancour	78-807	
Les Becquets	78-814	Hauts structuraux de la plateforme profonde et peu profonde
Les Becquets	78-815	
Les Becquets	78-825 N	
Villeroy	78-822	
Villeroy	78-823	Shales fracturés
Villeroy	78-824	
Villeroy	78-825 S	
Québec	78-818	Hauts structuraux de la plateforme peu profonde
Québec	78-819	
Québec	78-820	
Québec	78-821	
Blandford	78-833	
Blandford	78-834	Ecailles de carbonates
Blandford	78-835	
Lotbinière	78-817	Pièges stratigraphiques et plateforme peu profonde
Lotbinière	78-836	
St-Hyacinthe	78-826	
St-Hyacinthe	78-827	Ecailles de chevauchement
St-Hyacinthe	78-832	

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St-Jean	78-828	
St-Jean	78-829	Hauts structuraux de la
St-Jean	78-830	plateforme et les écailles
St-Jean	78-831	de chevauchement

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Parke (Rivière-du-Loup)	78-201	
Parke (Rivière-du-Loup)	78-202	Réservoir souterrain et
Parke (Rivière-du-Loup)	78-203	écailles de chevauchement
Parke (Rivière-du-Loup)	78-204	

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III-3 Soumissions reçues

Les compagnies suivantes ont soumissionné pour le programme sismique 1978:

- Vibro-X Exploration (Calgary)
- Géosource Inc. (Calgary)
- Seiscan Delta (Calgary)

Les demandes de soumissions ont également été envoyées à Grant Geophysical, GSI et Western Geophysical; malheureusement, ces compagnies étaient entièrement engagées lors de la demande.

III-4 Soumission retenue

La compagnie Géosource Inc. fut choisie pour effectuer le relevé. Les raisons en sont les suivantes:

- Disponibilité (2 semaines d'avis)
- Equipement conforme aux normes
- Plus basse soumission
- Connaissance antérieure de la région
- Géophones Min-Max

III-5 Principaux termes du contrat

- Contrat horaire, 510\$/heure
- Mobilisation et démobilitation, 85 000\$ (à partager au prorata avec la DGE).
- Minimum d'heures travaillées par mois, 210 heures
- Allocation journalière ("hot shot") par homme par jour, 22\$

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III-6 Autorisation de dépenses

Le budget initial accordé pour l'acquisition sismique 1978 s'élevait à un million (1 000 000\$) de dollars. Il fut augmenté de 190 180\$ suite à l'addition de quelques profils, ainsi qu'au prolongement du profil 78-203 de Parke.

IV- PREPARATION DU RELEVÉ SISMIQUE

Tous les profils sismiques anticipés furent minutieusement inspectés avant que copie soit remise à l'entrepreneur (Géosource Inc.). Les points suivants ont reçu une attention particulière:

- l'accessibilité
- la proximité des édifices
- la nature instable du sol
- les droits de passages
- l'ouverture de sentiers
- les stations à ne pas vibrer (pont, viaduc, etc...).
- l'équipement spécial ("jumper cables", moto-neige, véhicule 4 x 4, etc...).

Après chaque reconnaissance, une liste de recommandations était transmise aux autorités concernées, soit au domaine minier, au contremaître, à l'entrepreneur et au responsable de la mission.

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IV-1 Domaine minier

Le domaine minier de SOQUIP s'est chargé de l'obtention de 149 demandes de droits de passages privés et publics. La répartition par localité est la suivante:

Tableau 2

LOCALITE	PRIVE	PUBLIC
Lotbinière	20	3
Québec	71	8
St-Hyacinthe	7	3
St-Jean	20	3
Trois-Rivières	8	3
Parke	2	1

Un consultant, en la personne de Jean-Jacques Lessard fut engagé temporairement pour alléger la tâche du domaine minier lors de l'acquisition de ces droits de passages.

IV-2 Service de la géophysique

Le service de la géophysique était constamment représenté sur le terrain lors des travaux de production. Le rôle premier du géophysicien responsable était le contrôle de la qualité des enregistrements, par le choix des paramètres d'acquisition.

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Son rôle second était de maintenir les communications entre SOQUIP et:

- l'équipe sismique
- autorités provinciales et municipales
- particuliers ayant accordé le droit de passage
- citoyens non initiés à ces travaux.

IV-3 Documents à l'entrepreneur

Tous les profils sismiques furent localisés sur cartes topographiques à l'échelle 1: 50 000 (en 3 copies) et remises par la suite à l'entrepreneur. De plus, toutes les localisations de repères géodésiques (B.M.) requises par l'équipe d'arpenteurs de l'entrepreneur ont été fournies.

IV-4 Localisation des profils

Pour fin de traitement, l'entrepreneur en acquisition (Géosource Inc.) remettra à l'entrepreneur en traitement (Geodigit) les coordonnées (UTM) ainsi que l'élévation de tous les points de tir.

De plus, pour fin d'interprétation, l'entrepreneur en acquisition fournira à SOQUIP une carte (échelle 1: 50 000) de localisation de tous les points de tir effectués sur chacun des profils.

IV-5 Opération

Ce programme sismique a nécessité l'utilisation de machinerie lourde pour effectuer l'ouverture, l'entretien et le déneigement des lignes pendant l'hiver. Le tableau 3 fait état de ces dépenses.

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Tableau 3

TABLEAU DE REPARTITION DES COUTS  
D'OUVERTURE ET D'ENTRETIEN

Ouverture à Parke		
22 km à 2324.72/km		64334\$
Entretien et déneigement, Basses Terres et Parke		
Chargeur	14 heures	490\$
Charue	40 heures	1380\$
Débusqueuse	168 heures	3208\$
Fardier	38.5 heures	1343\$
Niveleuse	40.5 heures	1187\$
Pépine	8.5 heures	153\$
Souffleuse	171.5 heures	4992\$
Tracteur à chenilles	418.5 heures	14287\$
TOTAL:		<u>91384\$</u>

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V- ACQUISITION PROPREMENT DITE

V-1 Equipement géophysique

Source: Cinq (5) vibrateurs Y-600B avec système électronique SHV-210A

Laboratoire: Du 780801 au 781201  
48 traces SUM-IT VII

Du 781202 au 790228  
48 traces MDS-10

Receveurs: Géophones Min-Max, MD-81, 10Hz

Arpentage: Deux (2) équipements complets (théodolites, chaînes).

V-2 Personnel

Chef de mission (1)  
Secrétaire (1)  
Arpenteurs (2)  
Observateur (1)  
Observateur junior (1)  
Technicien de ligne (1)  
Technicien de géophones (1)  
Conducteurs (3)  
Mécanicien (1)  
Assistant mécanicien (1)  
Opérateurs de vibrateurs (5)  
Journaliers (13)

Au total: 31 personnes (annexe 5)

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V-3 Assistance aux vibrateurs

Un tracteur à chenilles assista les vibrateurs lors des travaux de production sur les profils suivants:

78-201 entier  
78-202 entier  
78-203 entier  
78-204 entier  
78-824 partie  
78-834 partie

Un chargeur hissa tous les véhicules aux sommets des pentes raides du profil 78-819.

Les coûts relatifs de cette assistance sont inclus dans le tableau de répartition des coûts d'opération.

V-4 Paramètres d'acquisition

Les paramètres d'acquisition furent changés et ajustés suivant les conditions du terrain, les bruits parasites et les objectifs sous investigation.

A) Paramètres constants

1- Configuration de la ligne de géophones:

- 48 traces
- tir au centre

2- Echantillonnage:

- 4 millisecondes SUM-IT VII
- 2 millisecondes MDS-10

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3- Couverture:

- 1200% (12 CDP)

4- Filtre terrain:

- 9-80 Hz, SUM-IT VII

- 9-125 Hz, MDS-10

5- Nombre de vibrateurs:

- 4 minimum

6- Nombre de géophones par trace:

- 20 géophones

B) Paramètres variables

Le tableau 4 illustre les paramètres variables ayant été préalablement sélectionnés lors d'essais expérimentaux:

Tableau 4

No. du profil	Déport (pieds)	Distance entre les traces (pieds)	Nombre de balayage	Fréquence du balayage (Hz)	Longueur du balayage (sec.)
78-201	1320	220	16	56-14	14
78-202	1760	220	16	56-14	14
78-203	1320	220	16	56-14	14
78-204	440	220	16	56-14	14
78-801	440	220	16	67-14	10
78-802	440	220	16-24	67-14	10
78-803	440	220	16-24	67-14	10
78-804	440	220	16-24	67-14	10
78-805	440	220	16-24	67-14	10
78-806	440	220	16	67-14	10
78-807	440	220	16	67-14	10
78-808	440	220	16-24	67-14	10
78-809	440	220	16	67-14	10
78-810	440	220	16	67-14	10
78-811	440	220	16	67-14	10

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Tableau 4 (suite)

No. du profil	Déport (pieds)	Distance entre les traces (pieds)	Nombre de balayage	Fréquence du balayage (Hz)	Longueur du balayage (sec.)
78-812	440	220	16	67-14	10
78-813	440	220	16	67-14	10
78-814	440	220	16	67-14	10
78-815	440	220	16	67-14	10
78-816	440	220	16	67-14	10
78-817	440	220	16	67-14	10
78-818	330	165	16	67-14	10
78-819	440	220	16-24-32	67(56)-14	10
78-820	440	220	16-24	67-14	10
78-821	330	165	16-24	67-14	10
78-822	660	165	24-32	80-20	14
78-823	660	165	24	80-20	14
78-824	660	165	16-24	80-20	14
78-825 S	660	165	16	80-20	14
78-825 N	440	220	16	67-14	10
78-826	1760	220	16	58-12	14
78-827	1760	220	16	58-12	14
78-828	880	220	16	58-12	14
78-829	880	220	16	58-12	14
78-830	880	220	16	58-12	14
78-831	1760	220	16	58-12	14
78-832	880	220	16	58-12	14
78-833	440	220	16-24	58-12	14
78-834	1320	220	16-24	58-12	14
78-835	440	220	16-24	58-12	14
78-836	660	165	16	80-20	14

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VI- RAPPORT JOURNALIER DU RENDEMENT DE L'EQUIPE

Tableau 5

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DATE	JOUR	PROFIL	STATIONS	# KM	HEURES CHARGEES	REMARQUES
78-08-01	mardi					L'équipement arrive à Québec par train.
78-08-02	mercredi				5.0	L'équipement est déménagé de Québec à Trois-Rivières
78-08-03	jeudi					Installation du système "noise rejection" à l'enregistreur SUM VII.
78-08-04	vendredi	78-801	expérimental		5.0	Quatre lignes de géophones étendues pour fins expérimentales.
78-08-05	samedi	78-801	expérimental		12.0	Tir de bruit et choix des paramètres. Problèmes avec radio, corrélateur et préamplificateurs.
78-08-06	dimanche	78-802	101-135	2.50	10.0	Début de la production, problèmes avec les préamplificateurs.
78-08-07	lundi	78-802	137-235	6.60	10.5	Problèmes de similarité et de préamplificateurs; manque de personnel sur la ligne.
78-08-08	mardi	78-802	237-279	2.80	5.5	Vibrateur défectueux, mauvais câbles et pluie.
78-08-09	mercredi	78-802	281-365	5.60	9.5	Problèmes avec un vibrateur et les préamplificateurs.
78-08-10	jeudi	78-802	367-389	2.14	4.0	Un camion de câbles brisé, troubles de préamplificateurs qui persistent.
		78-803	101-117	1.08		
78-08-11	vendredi	78-803	119-149	2.01	3.0	Câbles et préamplificateurs défectueux.
78-08-12	samedi					Réparation des préamplificateurs.
78-08-13	dimanche					Réparation des préamplificateurs.
78-08-14	lundi					Réparation des préamplificateurs.
78-08-15	mardi	78-803	101-185	5.63	6.0	Reprend la ligne 78-803; bruit, manque de géophones, mauvais préamplificateurs.
78-08-16	mercredi	78-803	187-297	4.70	11.0	Arrêt dû à un orage, préamplificateurs endommagés.
		78-804	101-133	2.14		



DATE	JOUR	PROFIL	STATIONS	# KM	HEURES CHARGÉES	REMARQUES
78-08-17	jeudi	78-804	135-201	4.42	7.0	Réparation de 50 préamplificateurs endommagés par l'orage.
78-08-18	vendredi	78-804	203-289	5.76	15.0	Erreur d'arpentage, extrémité nord de 78-804; arrêt à 22:00 sur 78-807 à cause de travaux.
		78-807	101-155	3.50		
78-08-19	samedi	78-806	101-191	6.03	12.5	Interférence radio avec Plessisville.
		78-805	101-141	2.69		
78-08-20	dimanche					Vingt-quatre heures de repos obligatoire.
78-08-21	lundi	78-805	145-213	4.55	12.0	Câbles étendus de nouveau sur 78-805; réflexions 0.6 sec sur 78-809.
		78-809	117-175	3.90		
78-08-22	mardi	78-809	177-263	5.76	8.0	Arrêt à 15:00, trafic, à terminer de nuit.
78-08-23	mercredi	78-809	265-315 (jusqu'à 24:00)		4.5	Travail de nuit, bonnes réflexions peu profondes.
78-08-24	jeudi	78-809 78-808	315-349	9.00	11.0	78-809 terminé à 6:00. Câbles étendus sur 78-808 de 22:00 à 24:00.
78-08-25	vendredi	78-808	101-257	10.46	11.5	Travaux de nuit, un peu de trafic.
78-08-26	samedi	78-808	299-413	10.46	12.0	Un peu de pluie, trafic sur la ligne 78-810, travaux de nuit.
		78-810	101-117	1.08		
78-08-27	dimanche	78-810	117-279	10.86	10.0	Réflexions pauvres, perte de un vibreur pour une heure.
78-08-28	lundi	78-801	101-161	4.02	6.5	Travail de jour, arrêt dans l'après-midi à cause de la pluie.
78-08-29	mardi	78-801	161-239	5.23	6.5	Pluie le matin, fin de la ligne 78-801.
78-08-30	mercredi	78-811	101-141	2.69	12.5	Bonnes réflexions 0.5 sec sur 78-811. Arrêt à 18:15 sur 78-812 à cause de la pluie.
		78-812	101-223	8.17		
78-08-31	jeudi	78-812	223-271	3.22	10.5	Très bonnes réflexions peu profondes. Profils 78-812 et 78-813 terminés.
		78-813	101-167	4.43		

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DATE	JOUR	PROFIL	STATIONS	# KM	HEURES CHARGEES	REMARQUES
78-09-01	vendredi	78-815	101-267	11.14	12.0	Vibration sur route de sable et gravier.
78-09-02	samedi	78-815	267-391	8.32	9.0	Réflexions 1.1 et 1.3 sec profil 78-815 terminé. Arrêt de 2.5 heures, vibreur défectueux.
78-09-03	dimanche					Vingt-quatre heures de repos obligatoire.
78-09-04	lundi				10.0	Congé de la fête du Travail (voir article 13).
78-09-05	mardi	78-814	101-233	8.85	10.0	Vibration sur route de sable. Profil 78-814 terminé.
78-09-06	mercredi					L'équipe travaille pour la DGE jusqu'au 22 septembre 1978.
78-09-23	samedi	78-816	1091-1261	11.40	12.0	Câbles spéciaux (Jumper) pour la traversée du pont Laviolette.
78-09-24	dimanche					Vingt-quatre heures de repos obligatoire.
78-09-25	lundi	78-816	1261-1333	4.83	5.5	Essais avec des géophones standard. Fin du profil 78-816.
78-09-26	mardi					La mission poursuit les travaux pour la DGE jusqu'au vendredi 17 novembre 1978.
78-11-18	samedi				6.0	Déménagement de Thetford Mines à Bernières.
78-11-19	dimanche					Vingt-quatre heures de repos obligatoire.
78-11-20	lundi	78-817	101-217	7.78	11.0	Accotement gelé, profil 78-817 terminé.
78-11-21	mardi	78-818	101-257	7.85	12.0	Très bonnes réflexions à 0.5 sec.
78-11-22	mercredi	78-818	257-295	1.90		
		78-820	101-149	3.22	11.0	Fin du profil 78-818. Arrêt à 17:00 à cause du trafic.
78-11-23	jeudi	78-820	149-239	6.09	11.0	Arrêt à 17:00 trafic et prévisions météorologiques.
78-11-24	vendredi	78-820				Tempête de neige, sans production.

DATE	JOUR	PROFIL	STATIONS	# KM	HEURES CHARGÉES	REMARQUES
78-11-25	samedi	78-820	239-265	1.74	10.5	Arrêt à 13:00, 60 Hz, les câbles sont séchés. Arrêt à nouveau 20:30, 60 Hz.
78-11-26	dimanche					Vingt-quatre heures de repos obligatoire.
78-11-27	lundi				10.0	La mission déménagement à Parke.
78-11-28	mardi	78-202	expérimental		10.0	Tir de bruit, câbles endommagés. Arrêt de 2 heures.
78-11-29	mercredi	78-202	101-113	0.80	11.0	Fin du tir de bruit AM, début de la production 14:00.
78-11-30	jeudi	78-202	113-180	4.50	11.5	Très bonnes réflexions.
78-12-01	vendredi	78-202 78-203	180-189 87-99	0.61 "staking"	11.0	Profil 78-202 terminé, 11:15. Etude comparative SUM VII - MDS-10, frais partagés. Début de production 78-203 à 17:00.
78-12-02	samedi	78-203	101-143	2.82	10.5	Très bonnes réflexions 1.15 et 1.55 sec.
78-12-03	dimanche					Vingt-quatre heures de repos obligatoire.
78-12-04	lundi	78-203	145-170	1.82	11.0	Bonnes réflexions malgré la pluie et verglas, profil 78-203 terminé.
78-12-05	mardi	78-201	101-143	2.82	11.0	HD-16 assiste les vibrateurs, début de production 13:00, très bonnes réflexions.
78-12-06	mercredi	78-201 78-204	143-155 101-149	0.80 3.22	12.0	Fin du profil 78-201, début du profil 78-204, réflexions 1.3 et 1.6 sec.
78-12-07	jeudi	78-204	149-189	2.69	12.0	Statique, 3 heures d'arrêt consacrées au changement de préamplificateurs. Réflexions 1.1 sec, accident de moto-neige.
78-12-08	vendredi	78-204	189-221	2.14	10.5	Fin du profil 78-204, bonnes réflexions.
78-12-09	samedi	78-203 extension	179-193	0.93	14.0	Neuf heures de production, réflexions 0.4 et 1.6 sec, 5 heures de déménagement à Bernières. Mission Parke terminée.
78-12-10	dimanche					Vingt-quatre heures de repos obligatoire.
78-12-11	lundi				2.5	Terminons le déménagement, réparation de l'équipement, déneigement du profil 78-819.

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DATE	JOUR	PROFIL	STATIONS	# KM	HEURES CHARGEES	REMARQUES
78-12-12	mardi	78-819	645-609	2.41	11.0	Beaucoup de 60 Hz sous la ligne haute tension, 2 vibrateurs s'enlisent (3 heures), socle 0.6 sec.
78-12-13	mercredi	78-819	609-555	3.75	11.5	Atténuation de 60 Hz, socle 0.6 sec.
78-12-14	jeudi	78-819	555-543	0.80	9.5	Neige et poudrerie, ouverture de la ligne, vibrateurs et remorque s'enlisent.
78-12-15	vendredi	78-819	543-489	3.48	10.5	Réflexions marquées par le 60 Hz. Dénéigement de la gravière.
78-12-16	samedi	78-809	489-445	2.95	9.0	Beaucoup de 60 Hz, vibrateurs dans la gravière (staking).
78-12-17	dimanche					Vingt-quatre heures de repos obligatoire.
78-12-18	lundi	78-819			4.0	Neige et poudrerie, ligne de géophones et câbles sont ramassés.
78-12-19	mardi	78-819	445-387	3.90	12.0	Traverse St-Augustin et parti de Cap Rouge, fin des opérations pour 1978.
78-12-20	mercredi					Mise en ordre et remisage de l'équipement pour les vacances de Noël.
78-12-25	lundi				10.0	Noël (article 13).
78-12-26	mardi				10.0	Lendemain de Noël (article 13).
79-01-01	lundi				10.0	Jour de l'An (article 13).
79-01-02	mardi					Dernière journée de vacances.
79-01-03	mercredi	78-819	387-357	2.01	7.0	Début de la production 14:00, 60 Hz.
79-01-04	jeudi	78-819	357-307	3.35	11.0	Câbles sectionnés par train et moto-neige, 60 Hz.
79-01-05	vendredi	78-819	307-217	6.04	13.0	Changement de paramètres 67-14 Hz - 56-14 Hz, 24 sweeps.
79-01-06	samedi	78-819			4.5	Ramassons câbles et géophones pour fin de nettoyage (NaCl).

DATE	JOUR	PROFIL	STATIONS	# KM	HEURES CHARGÉES	REMARQUES
79-01-07	dimanche					Vingt-quatre heures de repos les câbles entreposés pour séchage.
79-01-08	lundi	78-819				Ligne étendue sur le Boulevard Champlain, géophones abîmés par NaCl, hors d'usage.
79-01-09	mardi	78-819				Attendons de nouveaux géophones et préamplificateurs de Calgary.
79-01-10	mercredi	78-824	expérimental		9.5	Tir de bruit à Villeroy avec le nouveau matériel.
79-01-11	jeudi	78-819	295-225			Petty-Ray reprend le Boulevard Champlain à ses frais.
79-01-12	vendredi	78-819	225-139	5.63	8.5	V.P. 225 à 215 au frais de Petty-Ray. Profil 78-819 terminé.
79-01-13	samedi	78-821	101-217	5.84	10.0	Seize et vingt-quatre sweeps, socle à 0.3 sec. Profil 78-821 terminé.
79-01-14	dimanche					Vingt-quatre heures de repos obligatoire.
79-01-15	lundi	78-822	101-139	1.92	11.0	Vibrateurs démarrent difficilement, très froid, pertes des hautes Hz, 20 sweeps.
79-01-16	mardi	78-822	139-189	2.52	7.5	Bris mécaniques de 3:15 heures, 3 vibrateurs, 32 sweeps socle 1.3 sec.
79-01-17	mercredi	78-823	189-289	5.04	12.5	Bonnes réflexions, socle 1.35 sec.
79-01-18	jeudi	78-824	169-107	4.33	11.0	Perte des hautes Hz.
79-01-19	vendredi	78-804	101-187	4.92	15.0	Vibrateurs s'enlisent de 17:30 à 21:30, plateforme localisée entré 1.1 et 1.4 sec.
79-01-20	samedi	78-824	187-285	4.92	11.5	Très bonnes réflexions, 0.98 et 1.20 sec.
79-01-21	dimanche					Vingt-quatre heures de repos obligatoire.
79-01-22	lundi					Tempête de neige.
79-01-23	mardi	78-833				Ligne étendue, vibrateur défectueux, ligne ramassée.
79-01-24	mercredi	78-824	285-395	5.54	12.0	Chemin étroit, bonnes réflexions, 16 sweeps.

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DATE	JOUR	PROFIL	STATIONS	# KM	HEURES CHARGÉES	REMARQUES
79-01-25	jeudi					Neige et poudrerie, sans production.
79-01-26	vendredi	78-804	473-395	3.93	11.5	Pluie, chemin glissant, très bonnes réflexions sur bloc de Parisville, 0.44 et 0.64 sec.
79-01-27	samedi	78-825 S	89-117	1.41	9.5	Ligne étendue à bras d'hommes, inaccessible aux véhicules, pluie, enregistreur défectueux.
79-01-28	dimanche	78-825 S	117-221	5.23	12.5	Pluie et brume, chaussée très glissante, bonne réflexions 1.1 et 1.3 sec.
79-01-29	lundi	78-825 S 78-825 N	221-311 79-133	4.52 3.62	13.0	Profil 78-825 S terminé, changement de paramètres, très bonnes réflexions, 1.1 et 1.3 sec.
79-01-30	mardi	78-825 N	133-285	10.19	12.5	Zone de faille, rejet de 0.6 sec, plateforme localisée entre 0.45 et 0.65 sec.
79-01-31	mercredi	78-814	101-233	8.85	12.0	Zone de failles importantes, très bonnes réflexions.
79-02-01	jeudi	78-836	101-169	3.43	10.0	Poudrerie, visibilité nulle, arrêt à 14:00.
79-02-02	vendredi					Sans production, déneigement.
79-02-03	samedi	78-836	169-277	5.44	10.0	Zone de faille, socle 0.45 sec.
79-02-04	dimanche					Vingt-quatre heures de repos, sauf pour l'équipe d'arpentage.
79-02-05	lundi	78-835	101-233	8.85	13.5	Expérimental, zone de faille, réflexions pauvres.
79-02-06	mardi	78-833	101-219	7.60	12.5	Autoroute # 20, réflexions pauvres, parallèlement à une zone de faille?
79-02-07	mercredi	78-834	101-161	4.02	11.0	Vibrateurs s'enlisent, bris mécaniques, assistance de la S.Q. pour traverser la # 20, 1.45 et 1.60 sec.
79-02-08	jeudi	78-834	161-229	4.55	12.5	Bonnes réflexions, les véhicules s'enlisent tous. Attendons que la gelée fasse son effet avant de terminer cette ligne.
79-02-09	vendredi				10.0	Déménagement à Rougemont.
79-02-10	samedi					Sans production, les vibrateurs sont gelés.

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DATE	JOUR	PROFIL	STATIONS	# KM	HEURES CHARGÉES	REMARQUES
79-02-11	dimanche					Vingt-quatre heures de repos obligatoire.
79-02-12	lundi	78-834	229-291	4.15	12.0	Bonnes réflexions, zone de faille, socle 2.5 sec. Profil 78-834 terminé.
79-02-13	mardi	78-826	101-201	6.71	13.5	Tir de bruit, début des opérations dans la région de St-Hyacinthe.
79-02-14	mercredi	78-826	201-331	8.72	13.5	Vibrons au-travers champs, traversons Rivière Yamaska, socle 1.8 sec.
79-02-15	jeudi	78-827				Ligne étendue, laboratoire défectueux, sans production.
79-02-16	vendredi					Vingt-quatre heures de repos, réparation du "power supply" de l'enregistreur.
79-02-17	samedi	78-827	109-217	7.24	10.5	Mauvais câbles, socle 2.0 sec.
79-02-18	dimanche	78-827	217-355	9.25	13.0	Traversons Rivière Yamaska, bonnes réflexions à 1.7 sec.
79-02-19	lundi	78-827	355-393	2.54	12.5	Fin de la ligne 78-827, début de la production sur l'autoroute des Cantons de l'Est.
		78-831	101-165	4.30		
79-02-20	mardi	78-831	165-267	6.84	10.5	Vibrateur brisé pendant plusieurs heures. Traffic rapide.
79-02-21	mercredi	78-831	267-345	5.23	8.5	Fin de la ligne 78-831 à 15:30.
79-02-22	jeudi	78-830	91-221	8.85	13.0	Fin de la ligne 78-830, 60 Hz.
79-02-23	vendredi	78-829	101-189	6.04	12.5	Fin de la ligne 78-829, début 78-828. Pluie vers 17:30.
		78-828	101-123	1.61		
79-02-24	samedi	78-828				
		78-832	101-179	5.23	10.5	Ramassons la ligne sur 78-828, début de 78-832. Humide, brume et traffic.
79-02-25	dimanche					Vingt-quatre heures de repos obligatoire.
79-02-26	lundi	78-828	123-155	2.15	7.0	Traverse d'un champ. Arrêt à 14:30, tempête.
79-02-27	mardi	78-828	155-291	9.12	12.5	Bonnes réflexions, fin de la ligne 78-828.
79-02-28	mercredi	78-832	179-323	9.66	16.0	Soixante Hz, neige fondante, traffic, fin de la ligne, 78-832 à 23:10. Fin de la mission 1978-1979.
TOTAL:				<u>485.28</u>	<u>1035.5</u>	

VII- CONTROLE DE LA QUALITE

La qualité des informations enregistrées sur ruban magnétique s'effectuait directement sur le terrain à l'aide des moniteurs (12 traces SUM-IT VII, 24 traces MDS-10) corréliées et non corrigées. Il est difficile de se prononcer de façon définitive sur ce que sera la section finale après addition. Toutefois, l'étude de ces moniteurs démontre que la qualité des enregistrements est moyenne dans l'ensemble du programme et varie de pauvre à excellente.

Les facteurs ayant pu contribuer à la détérioration des enregistrements relèvent soit de la source, du système d'enregistrement (géophones, câbles et enregistreur) ou des facteurs externes incontrôlables.

Suite aux défauts de l'équipement, l'entrepreneur a repris à ses frais les stations jugées pauvres ou inacceptables. Le contrôle du facteur équipement s'est effectué de façon rigoureuse et peut être considéré comme négligeable.

Toutefois, il doit être mentionné que du début des opérations jusqu'au 27 septembre 1978, la position de l'horloge du gain était "2" et aurait normalement dû être "0". Les profils ayant été vibrés avant cette rectification (resouder le fil au bon endroit) risquent d'être plus bruités, car en cette position, les bruits inhérents à la circulation et aux villes étaient diminués proportionnellement avec l'augmentation des balayages et non par le système de "noise rejection".

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Le résultat des comparaisons n'a pas justifié la reprise de ces profils.

Les facteurs incontrôlables se regroupent en trois grandes catégories:

1- Conditions géologiques et géomorphologiques

- épaisseur du mort-terrain
- marécages
- topographie

2- Effets dus à l'urbanisation

- densité de la circulation routière
- bruits inhérents aux villes
- lignes de haute tension
- NaCl répandu sur les routes

3- Le climat

- le vent
- la pluie
- l'humidité
- la gelée
- la neige

Le tableau 6 estime qualitativement chaque profil sismique avant addition, en tenant compte des facteurs incontrôlables ci-haut mentionnés.

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Tableau 6

No. profil	Estimation qualitative	Remarques
78-201	très bonne	topographie et vent
78-202	très bonne	topographie et vent
78-203	très bonne	topographie et vent
78-204	très bonne	topographie et vent
78-801	médiocre	épaisseur du mort terrain
78-802	bonne	circulation routière
78-803	bonne	ville de Nicolet
78-804	bonne	ville de Nicolet
78-805	très bonne	conditions favorables
78-806	très bonne	conditions favorables
78-807	très bonne	conditions favorables
78-808	médiocre	épaisseur du mort terrain
78-809	médiocre	épaisseur du mort terrain
78-810	médiocre	épaisseur du mort terrain
78-811	médiocre	épaisseur du mort terrain
78-812	médiocre	épaisseur du mort terrain
78-813	médiocre	épaisseur du mort terrain
78-814	très bonne	conditions favorables
78-815	très bonne	conditions favorables
78-816	médiocre	épaisseur du mort terrain
78-817	médiocre	contact sol-géophone
78-818	excellente	conditions favorables
78-819	pauvre	60 Hz, circulation NaCl
78-820	bonne	circulation, NaCl
78-821	médiocre-excellente	circulation
78-822	bonne	marécages
78-823	bonne	marécages
78-824	bonne-excellente	marécages
78-825 N	très bonne	conditions favorables
78-825 S	très bonne	conditions favorables
78-826	bonne-excellente	circulation, rivières
78-827	pauvre-bonne	circulation, rivières
78-828	bonne	conditions géologiques
78-829	bonne	conditions géologiques
78-830	bonne	conditions géologiques
78-831	médiocre	circulation (autoroute)
78-832	pauvre	circulation et ville St-Hyacinthe
78-833	pauvre	circulation (autoroute)
78-834	bonne	circulation, rivière, marécages
78-835	médiocre	conditions géologiques
78-836	très bonne	vent

VIII- REPARTITION DES COUTS DE PRODUCTION  
(AD, PROJETS, PERMIS)

Tableau 7

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Tableau 7

TABLEAU DE REPARTITION DES COUTS DE PRODUCTION

-27-

AD	PROJET	PERMIS	LIGNE	V.P.	NOMBRE DE V.P.	NOMBRE DE KM	KM/AD	HEURES	HEURES/AD
535	2057	641	78-802	101-399	299	19.99		38.5	
535	2057	641	78-803	101-201	101	6.71		10.0	
535	2057	653 (vieux 243)	78-803	201-257	57	3.76		4.0	
535	2057	641	78-804	101-289	189	12.61		22.0	
535	2057	641	78-805	101-213	113	7.51		10.5	
535	2057	641	78-806	101-191	91	6.04		8.0	
535	2057	641	78-807	101-155	55	3.62		7.0	
535	2045	642 (vieux 255)	78-801	101-239	139	9.26		35.0	
535	2045	642 (vieux 255)	78-810	101-279	179	11.94		13.0	
535	2045	642 (vieux 255)	78-811	101-141	41	2.68		4.0	
535	2045	642 (vieux 255)	78-812	101-271	171	11.40		13.5	
535	2045	642 (vieux 255)	78-813	101-167	67	4.43		5.5	
535	2045	642 (vieux 255)	78-814	101-233	133	8.86		20.0	
535	2045	642 (vieux 255)	78-815	101-391	291	19.45		21.0	
535	2045	642 (vieux 255)	78-825	79-285	207	13.82	142.08	18.5	230.5

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Tableau 7 (suite)

## TABLEAU DE REPARTITION DES COUTS DE PRODUCTION

-28-

AD	PROJET	PERMIS	LIGNE	V.P.	NOMBRE DE V.P.	NOMBRE DE KM	KM/AD	HEURES	HEURES/AD
540	2041	566	78-808	101-202 292-359	170	11.34		10.0	
540	2041	253	78-808	359-413	55	3.62		6.0	
540	2042	338	78-808	202-292	90	5.97		6.5	
540	2041	566	78-809	117-332	216	14.42		18.5	
540	2041	253	78-809	332-449	118	7.85		9.0	
540	2041	566	78-816	1091-1333	243	16.23	59.43	17.5	67.5
550	2065	504	78-818	101-295	195	13.01		16.0	
550	2065	504	78-819	441-645	205	13.69		58.0	
550	2065	436	78-819	139-441	303	20.26		86.0	
550	2065	436	78-821	101-217	117	5.89	52.85	10.0	170.0
576	2076	633	78-201	91-169	79	5.23		14.0	
576	2076	633	78-202	101-201	101	6.71		48.5	
576	2076	633	78-203	87-198	112	7.45		40.5	
576	2076	633	78-204	101-235	135	8.99	28.38	31.5	134.5
545	2045	197	78-817	101-217	117	7.78		17.0	
545	2045	197	78-820	232-265	34	2.21		10.5	
545	2045	647	78-820	101-232	132	8.79		18.0	
545	2045	197	78-822	93-289	197	9.86		31.0	

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Tableau 7 (suite)

## TABLEAU DE REPARTITION DES COUTS DE PRODUCTION

-29-

AD	PROJET	PERMIS	LIGNE	V.P.	NOMBRE DE V.P.	NOMBRE DE KM	KM/AD	HEURES	HEURES/AD	
545	2045	197	78-823	107-169	63	3.12		11.0		
545	2045	197	78-824	101-473	373	18.77		59.5		
545	2045	197	78-825	89-311	223	11.17		29.0		
545	2045	197	78-826	101-331	231	15.50		27.0		
545	2045	197	78-827	109-393	285	19.12		28.5		
545	2045	197	78-828	101-291	191	12.81		24.5		
545	2045	197	78-829	101-189	89	5.97		9.5		
545	2045	197	78-830	91-221	131	8.79		13.0		
545	2045	642	78-814	101-233	133	8.86	132.65	12.0	290.5	
616	2045	197	78-831	101-345	245	16.44		26.5		
616	2045	197	78-832	101-323	223	14.96		24.5		
616	2045	197	78-833	101-219	119	7.92		12.5		
616	2045	197	78-834	101-291	191	12.75		45.5		
616	2045	197	78-835	101-233	133	8.86		13.5		
616	2045	197	78-836	101-277	177	8.86	69.79	20.0	142.5	
GRAND TOTAL:							<u>485.28 km</u>	<u>1035.5 h</u>	<u>1035.5</u>	

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IX- OBLIGATIONS STATUTAIRES

Le tableau 8 fait état des travaux statutaires sur les permis affectés par ce relevé sismique. Les factures ainsi comptabilisées s'appliquent à l'année budgétaire prenant fin le 31 mars 1979.

Il restera donc dix-sept (17) lignes dont le traitement est présentement en cours chez Geodigit. Le coût estimé de cette balance de traitement est évalué à 61 498,60\$ et sera appliqué comme exigences statutaires pour l'année budgétaire 1979-80.

Ceci complète les dépenses relatives à l'acquisition et au traitement des travaux géophysiques 1978-79.

TABLEAU 8  
TABLEAU DE REPARTITION DES TRAVAUX STATUTAIRES SUR LES  
PERMIS AFFECTES

PERMIS	OBLIGATIONS STATUTAIRES		REPARTITION DES HEURES ET DU KILOMETRAGE				REPARTITION DES DEPENSES		
	TRAV. STATUTAIRES 1978-79	OBLIG. STATUTAIRES REELLES (EXCEDENTS)	HRS DE PROD.	% HRS DE PROD.	KILOME- TRAGE	% DU KILO- METRAGE	ACQUI- SITION	TRAITE- MENT	CHARGES INTERNES
197	1 107 916,00	nil	403.0	38.92	184.89	38.10	312 692,07	7 833,52	24 457,58
293	32 850,00	nil	15.0	1.45	11.47	2.36	20 080,97	965,31	1 887,73
338	33 000,00	nil	6.5	0.63	5.97	1.23	10 477,51	502,66	982,00
436	40 820,00	40 820,00	96.0	9.27	26.15	5.38	54 835,34	2 194,98	1 461,14
504	33 000,00	nil	74.0	7.15	26.70	5.50	55 987,91	2 241,12	1 491,86
566	40 800,00	nil	46.0	4.44	41.99	8.65	73 655,26	3 533,63	6 910,28
633	20 272,00	nil	134.5	12.98	28.38	5.85	164 712,75	11 586,80	18 610,54
641	8 200,00	nil	96.0	9.27	56.48	11.63	37 471,42	10 649,03	5 249,93
642	5 200,00	5 200,00	142.5	13.76	90.7	18.69	120 522,75	15 945,85	9 149,30
647	11 500,00	11 500,00	18.0	1.74	8.79	1.81	10 587,05	510,19	1 538,07
653	6 000,00	6 000,00	4.0	0.39	3.76	0.80	5 053,39	709,94	349,53
SOUS TOTAL .....							866 076,42	56 673,03	72 087,96
TOTAL.....							<u><u>994 837,41</u></u>		



X- CONCLUSIONS

A) Evaluation de l'entrepreneur

L'équipe sismique 6850 de Géosource Inc. a effectué le programme sismique SOQUIP-1978 en entier et les termes du contrat furent bien respectés. Au total, 485.28 kilomètres de sismique réflexion ont été acquis et 1035.5 heures payées à l'entrepreneur. Ces heures se répartissent de la façon suivante:

- 940.5 heures de production (5.16 km/jour, en moyenne)
- 40.0 heures fériées (4 jours à 10 heures/jr)
- 28.5 heures consacrées au déménagement
- 26.5 heures de tir expérimental

Lors de ce programme sismique, cinq jours entiers ont été perdus suite aux intempéries et sept jours entiers furent consacrés à la réparation de troubles électroniques et/ou mécaniques majeurs. Ces pertes de temps, non comptabilisées peuvent être considérées normales, vu la rigueur de notre climat et l'accessibilité de certains profils.

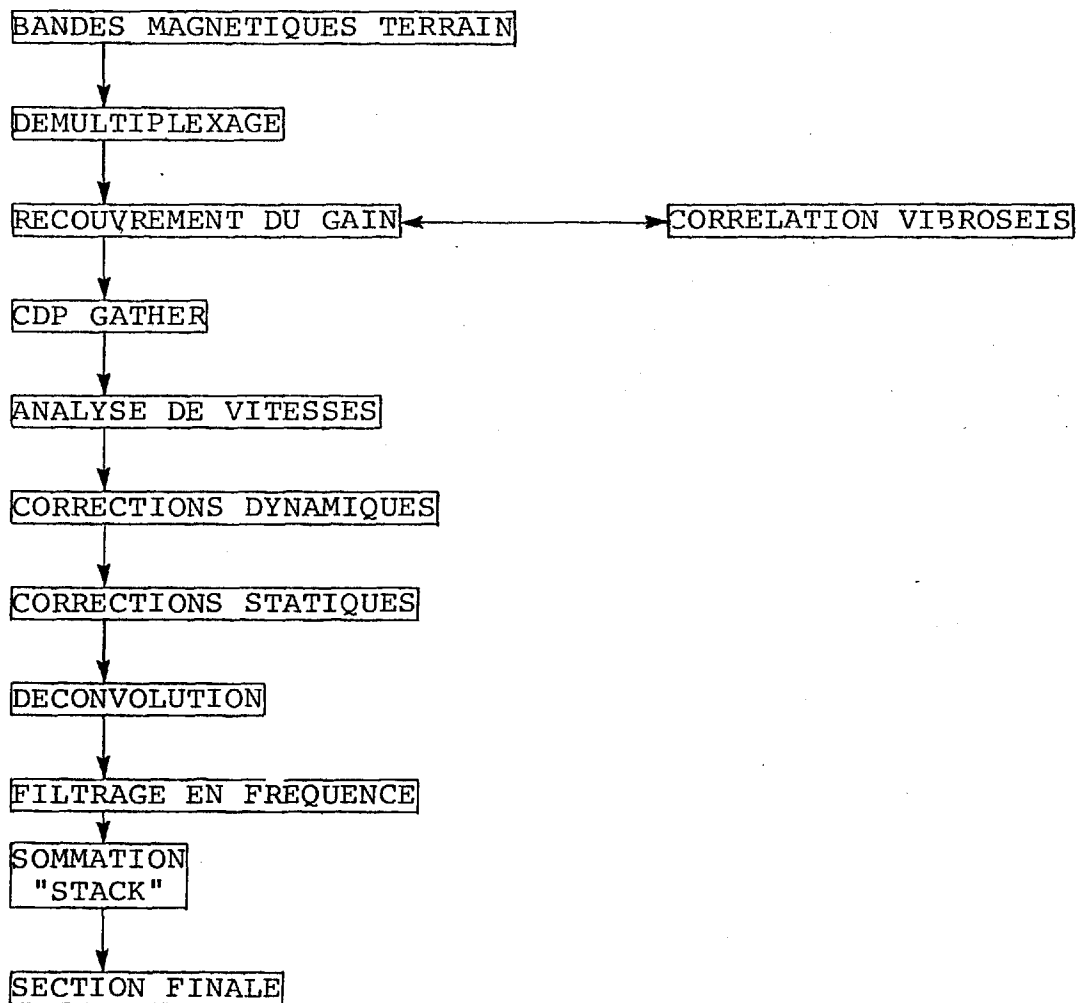
Les seules critiques adressées à l'équipe de Géosource touchent deux pièces d'équipement qui n'ont pas donné le rendement anticipé. Il s'agit de troubles intermittents du corrélateur et du manque de synchronisation (jusqu'au 27 septembre 1978) du système de "noise rejection" de l'enregistreur SUM-IT VII.

.../

Le camion enregistreur muni du système MDS-10 a fait preuve d'une nette amélioration technologique, quant à son efficacité et la qualité des moniteurs terrain.

B) Traitement des données

Les bandes magnétiques furent envoyées directement du terrain à la compagnie Geodigit de Calgary. Chaque bande fût soumise au traitement numérique de routine suivant:



.../

C) Stockage des bandes magnétiques

Après traitement, les bandes magnétiques terrain seront entreposées chez:

Stac's Data Services Ltd.

3651 - 23 Street N.E.

CALGARY, Alberta

T2E 6T2

D) Interprétation des données sismiques

Les sections sismiques finales de la mission 1978-79 furent interprétées dès leur réception du centre de traitement de Calgary. Les "sonic log" des puits forés à proximité de ces profils ont servi au calage. Les données au socle de la section 5Q-1050 de Shell (1971) ont dû être utilisées afin de mieux corréler les failles de part et d'autre du St-Laurent, entre Ste-Croix de Lotbinière et Neuville.

Tels sont les outils géophysiques utilisés à la mise en plan de la carte structurale du socle présentée à l'annexe 6.

Sur cette carte isochrone à l'échelle de 1: 250 000 nous distinguons principalement deux zones de failles orientées NE-SW, d'où origine un réseau de failles normales secondaires, dont l'expression est parfois observable en surface. Les failles de St-Prosper, St-Casimir, Deschambault, Donnacona et Neuville en sont d'excellents exemples.

Le bloc délimité par ces deux zones de failles accuse une inclinaison vers le NW et montre des

.../

différences de profondeurs atteignant jusqu'à 130 msec. Les données sismiques démontrent bien que ce bloc s'est effondré graduellement du NE vers le SW. Observable en surface dans la région de Québec, il atteint des profondeurs de l'ordre de 850 msec dans la région de Trois-Rivières.

Dans les régions de Blandford et St-Jean St-Hyacinthe, il est malheureusement impossible de corréler les failles avec un réseau principal, toutefois, nous constatons que le socle se situe à des profondeurs variant entre 1000 et 2000 msec.

Dans la région de Rivière-du-Loup, le socle n'est pas visible sur les sections. Toutefois nous croyons qu'il se situe vers 4000 msec.

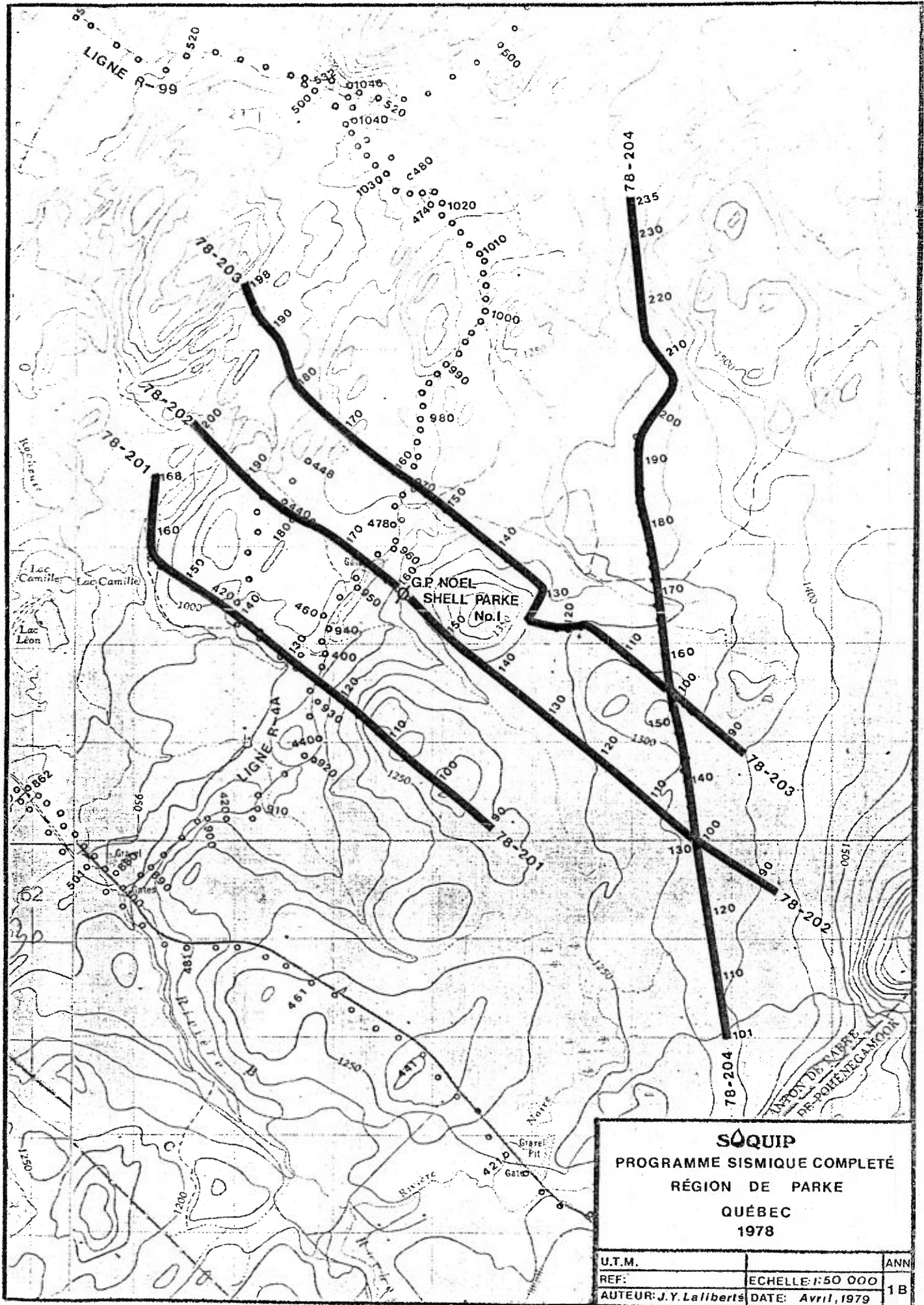
Toutes les failles normales localisées au niveau du socle Précambrien ont été actives pendant presque toute la période de déposition des sédiments de la plateforme; c'est-à-dire du Cambrien inférieur à l'Ordovicien supérieur.



JEAN-YVES LALIBERTE

JYLL/cd

**CARTES DES PROFILS SISMIQUES 1978**



**CARTES DES PERMIS**







**RAPPORT HEBDOMADAIRE  
DE PRODUCTION DE L'ENTREPRENEUR**

# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED

August 6 1978

PARTY NO <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>Hourly</b>	PARTY MANAGER <b>A. J. FRANCE</b>	GEOPHYSICAL SUPERVISOR <b>H. MCGREGOR</b>	
SEND MAIL TO <input type="checkbox"/>	PARTY ADDRESS <b>PO Box 1087 STNM</b>		CITY <b>CALGARY</b>	STATE-ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-822</b>
<input checked="" type="checkbox"/>	HOT SHOT ADDRESS <b>P.O. Box</b>		CITY <b>TROIS RIVIERES</b>	STATE-ZIP <b>QUEBEC</b>	TELEPHONE <b>819-</b>
PROSPECT NO			CLIENT COMPANY <b>SOQUIP</b>	CLIENT SUPERVISOR <b>ANDRÉ TRÉDANIER</b>	

PROSPECT NAME			COUNTY <b>NICOLET</b>	STATE <b>QUEBEC</b>
---------------	--	--	--------------------------	------------------------

RECORDING	<input type="checkbox"/> DYNAMITE	<input type="checkbox"/> DINOSEIS	<input type="checkbox"/> AIR-SUN	PERCENT COVERED <b>1200</b>
	<input type="checkbox"/> WEIGHT DROP	<input checked="" type="checkbox"/> VIBROSEIS	<input type="checkbox"/>	

	DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON								
TUE	1	0	0	0	0	0	0	UNLOAD EQUIPMENT FROM TRAIN
WED	2	0	0	0	5	5	5	EQUIPMENT MOVE QUE CITY TO TROIS RIVIERES
THU	3	0	0	0	0	0	0	RAIN - INSTAL NOISE REJECT INSUIT ON
FRI	4	0	0	0	4	1	5	LINE 78-01 EXPERIMENTAL - LAY OUT VISIBILITY CARB & GEOPHONE PROBLEMS, ELECTRONIC PROBLEMS
SAT	5	28	1704	EXPERIMENTAL	12	1	12	LINE 78-01 - VARIOUS EXPERIMENTAL ARRAYS & VIS TRAILER 1.5 HRS. + HEAVY TRAFFIC + HOT & HUMID
SUN	6	18	1152	2.500 KM	12	1	10	LINE 78-02 STN 101 THRU 135. DRAIN FROM EXP LINE 78-01 LAYOUT ON 78-02. CARB TRAILER + MIN MAX TRAILER + VIS TRAILER = 30 HRS

TOTALS	FOR WEEK	46	2856	2.500 KM	28	5	32	CONTRACT HOURS			
	MONTH TO DATE	46	2856	2.500 KM	28	5	32	LAST WEEK	THIS WEEK	MONTH TO DATE	
								UNDER	OVER	UNDER	OVER

UNITS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS			
	11414				11415				11418				11419					11756		
	OPERATOR				OPERATOR				OPERATOR				OPERATOR				OPERATOR			
	GUNDERSON				MARCHANT				VIENS				KELLERMAN				GIBSON			
	DAY OF MO.	NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	HRS. CHGD CLIENT	NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	HRS. CHGD CLIENT	NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	HRS. CHGD CLIENT	NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	HRS. CHGD CLIENT	NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	HRS. CHGD CLIENT	NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	HRS. CHGD CLIENT	
MON																				SWP - 67-14 HZ
TUE	1	0																		LENGTH - 16 sec
WED	2			50			50						50							DOWN SWP
THU	3			0			0						0							10 SEC RECORD
FRI	4			50			50						50							4 VIBS 50' SPACING
SAT	5			125			0						125							MOVE 13' OVER 440
SUN	6			70			130						60							5 VIBS 50' SPACING
TOTALS	FOR WEEK			295			230						235							355
	MONTH TO DATE			295			230						235							355

LD RECORDER <b>SLIMIT VII</b>	RECORD FILTER <b>BOYNOTCHIN</b>	SPREAD DISTANCES <b>6720-440-0-440-6720</b>	SOURCE ARRAY <b>4 @ 50' MOVE 13'</b>	GEOPHONE ARRAY <b>MIN MAX (22')</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 ~</b>	DATE <b>08-06-78</b>	SIGNATURE (P.C. OR D.M.) <i>[Signature]</i>	

WEEKLY ACTIVITY REPORT

**Petty-Ray**

Petty-Ray Geophysical, Inc.

WEEK ENDED  
**August 13, 1978**

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>Hourly</b>	PARTY MANAGER <b>A. J. FRANCE</b>	GEOPHYSICAL SUPERVISOR <b>H. MCGREGOR</b>	
ND <input type="checkbox"/> IL <input type="checkbox"/> J <input checked="" type="checkbox"/>	PARTY ADDRESS <b>Pc Box 1087 Stn M</b>		CITY <b>CALGARY</b>	STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>
	HOT SHOT ADDRESS <b>CP 1118</b>		CITY <b>TROIS RIVIERES</b>	STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>819-</b>
PROSPECT NO.		CLIENT COMPANY <b>SCQUIP</b>		CLIENT SUPERVISOR <b>ANDRÉ TRÉPANTIER</b>	
PROSPECT NAME				COUNTY <b>Nicolet/Béarnois</b>	STATE <b>QUEBEC</b>

<b>RECORDING</b>	<input type="checkbox"/> DYNAMITE	<input type="checkbox"/> DINOSEIS	<input type="checkbox"/> AIR-GUN	PERCENT COVERED <b>1200</b>
	<input type="checkbox"/> WEIGHT DROP	<input checked="" type="checkbox"/> VIBROSEIS	<input type="checkbox"/>	

	DAY OF MONTH	NO. SHOTS/IMPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON	7	48/50	3488	6.444 KM	13 <sup>5</sup>	1 <sup>0</sup>	10 <sup>5</sup>	LINE 78-802 STN 135 thru 235 - MUCH MIN MAX TRUBLE & HEAVY TRAFFIC. SHUT DOWN 1/2 HOUR. 30 BD - SKIPS DUE TO CARGON & HOT & HUMID
TUE	8	22	1408	3.056 KM	6 <sup>0</sup>	1 <sup>0</sup>	5 <sup>5</sup>	LINE 78-802 STN 235 thru 279 - MEDIUM TO HEAVY TRAFFIC & RAINED OUT IN PM. 1/2 HR TRUBLE & SOME CABLE TRUBLE. 15 - 100 BD
WED	9	42	2688	5.833 KM	11 <sup>5</sup>	1 <sup>0</sup>	9 <sup>5</sup>	LINE 78-802 STN 279 thru 303 - MEDIUM TO HEAVY TRAFFIC & HI HUMIDITY - HOT. 30 BD - BINTAPE, VIB TRUBLE & MIN MAX TRUBLE
THU	10	24	1584	3.333 KM	11 <sup>5</sup>	1 <sup>0</sup>	4 <sup>0</sup> 5 <sup>0</sup>	LINE 78-802 STN 303 thru 399 - COL 78-803 STN 1-115. 7 <sup>5</sup> lost TIME DUE TO MIN MAX AMP TRUBLE
FRI	11	19	1176	2.639 KM	11 <sup>0</sup>	1 <sup>0</sup>	3 <sup>0</sup>	LINE 78-803 STN 105 thru 151. 9 <sup>0</sup> lost TIME DUE TO MIN MAX TRUBLE
SAT	12	0	0	0	0	0	0	CREW SHUT DOWN - MIN MAX TRUBLE
SUN	13	0	0	0	0	0	0	CREW SHUT DOWN - MIN MAX TRUBLE

TOTALS	FOR WEEK	155/157	10344	21,805 KM	53 <sup>5</sup>	5 <sup>0</sup>	33 <sup>5</sup>	CONTRACT HOURS						
								LAST WEEK	THIS WEEK	MONTH TO DATE	OVER	UNDER	OVER	UNDER
	MONTH TO DATE	201/208	13200	24,305 KM	82 <sup>0</sup>	13 <sup>0</sup>	65 <sup>5</sup>							

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS
	11414			11415			11418			11419			11756			
	OPERATOR CUNDERSON			OPERATOR MARCHANT			OPERATOR VIENS			OPERATOR KELLERMAN			OPERATOR GIBSON			
DAY OF MONTH	NO HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	NO HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	NO HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	NO HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	NO HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	
MON	7			0			13 <sup>5</sup>			13 <sup>5</sup>			13 <sup>5</sup>			
TUE	8			0			7 <sup>0</sup>			7 <sup>0</sup>			7 <sup>0</sup>			
WED	9			0			12 <sup>5</sup>			11 <sup>5</sup>			12 <sup>5</sup>			
THU	10			12 <sup>5</sup>			12 <sup>5</sup>			0			12 <sup>5</sup>			
FRI	11			12 <sup>0</sup>			0			12 <sup>0</sup>			12 <sup>0</sup>			
SAT	12			0			0			0			0			
SUN	13			0			0			0			0			
TOTALS	FOR WEEK			24 <sup>5</sup>			45 <sup>5</sup>			44 <sup>5</sup>			57 <sup>5</sup>			
	MONTH TO DATE			54 <sup>0</sup>			68 <sup>5</sup>			67 <sup>5</sup>			93 <sup>0</sup>			

FIELD RECORDER <b>Sumit 211</b>	RECORD FILTER <b>80-Natch W</b>	SPREAD DISTANCES <b>6720-440-0-440-6720</b>	SOURCE ARRAY <b>4050' MOVE 13'</b>	GEOPHONE ARRAY <b>INLINE @ 22'</b>
TYPE GEOPHONE <b>Min Max M210</b>	GEO. FREQUENCY <b>100</b>	DATE <b>08-13-78</b>	SIGNATURE (P.C. OR P.M.) <i>[Signature]</i>	

WEEKLY ACTIVITY REPORT

# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED

AUG 20, 1978

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>H. MCCREGOR</b>	
SEND <input type="checkbox"/>	PARTY ADDRESS <b>P.O. BOX 1087 STN M</b>		CITY <b>CALGARY</b>	STATE-ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>
<input checked="" type="checkbox"/>	HOT SHOT ADDRESS <b>CP 1118</b>		CITY <b>TRIS RIVIERES</b>	STATE-ZIP <b>QUEBEC</b>	TELEPHONE <b>819-376-7273</b>
PROSPECT NO.		CLIENT COMPANY <b>SOQUIP</b>		CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>	
PROSPECT NAME				COUNTY <b>NIOLET/BEAUCOUR</b>	STATE <b>QUEBEC</b>

RECORDING  DYNAMITE  DIMOSEIS  AIR-GUN  WEIGHT DROP  VIBROSEIS  PERCENT COVERED **1200**

DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 14	0	0	0	0	0	0	CREW DOWN MANY TROUBLE
TUE 15	4084	47	6.238 Km	5.0	1.0	6.0	LN 78-803 STN 101 TO 185 - REPEAT OF LINE TO STN 149 DUE TO DEAD TRACES AND HEAVY TRAFFIC. COMPLETE LAYOUT LN 78-803 STN 187 TO 257 EOL
WED 16	3584	46	6.103 Km	11.0	1.0	11.0	LN 78-804 STN 101 TO 133. SHUT DOWN, ELECT. STORM
THU 17	2203	34	4.561 Km	12.5	1.0	7.0	LN 78-804 STN 135 TO 201 - 5 WRS LOST DUE TO 75 PREAMPS DAMAGED BY LIGHTNING - 30 REPAIRED IN FIELD
FRI 18	5568	71	9.524 Km	14.5	1.0	15.0	LN 78-804 STN 203 TO 289 EOL MOVE TO LINE 307
SAT 19	4443	67/168	9.391 Km	11.5	1.0	12.5	LN 78-806 STN 101 TO 191 EOL LN 78-805 STN 101 TO 143 - 143 SKIP - CHURCH
SUN 20	0	0	0	0	0	0	DAY OFF

TOTALS	FOR WEEK		CONTRACT HOURS					LAST WEEK		THIS WEEK		MONTH TO DATE	
	NO.	PROF.	OVER	UNDER	OVER	UNDER	OVER	UNDER	OVER	UNDER			
	19872	265/366	35.817	54.5	5.0	51.5							
MONTH TO DATE	30216	420/423	60.122	136.5	18.0	117.0							

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS
	OPERATOR			OPERATOR			OPERATOR			OPERATOR			OPERATOR			
	DAY OF MO.	NO. HOLES IMPL	FOOTAGE DRILLED/TRVRS	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/TRVRS	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/TRVRS	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/TRVRS	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/TRVRS	
	111414			111415			111418			111419			111756			
	GUNDERSON			MARCHANT			VIENS			HELLERMAN			GIBSON			
MON																
TUE			6.0			6.0			6.0			6.0				
WED			11.0			11.0			11.0			11.0				
THU			7.0			7.0			7.0						7.0	
FRI			15.0			15.0			15.0						15.0	
SAT			12.5			12.5			12.5						12.5	
SUN			0			0			0						0	
TOTALS	FOR WEEK		51.5			51.5			51.5			120			345	
	MONTH DATE		105.5			110.0			119.0			110.0			127.5	

FIELD RECORDER <b>SUM IT VII</b>	RECORD FILTER <b>80 - NOTCH IN</b>	SPREAD DISTANCES <b>6720-440-0-940-6720</b>	SOURCE ARRAY <b>4 @ 50' MOVE 13'</b>	GEOPHONE ARRAY <b>IN LINE 22'</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>08-20-78</b>	SIGNATURE (P.C. OR P.M.) <i>[Signature]</i>	



Geophysical, Inc.

PARTY NO. <b>6350</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>H. M. GREGOR</b>
PARTY ADDRESS <b>RD. 807 1087 STN M</b>		CITY <b>CALGARY</b>		STATE - ZIP <b>ALBERTA</b>
HOT SPOT ADDRESS <b>CP. 412</b>		CITY <b>TADUS RIVIERES</b>		STATE - ZIP <b>QUEBEC</b>
PROSPECT NO.			CLIENT COMPANY <b>SOQUIP</b>	CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>
PROSP. NAME			COUNTY <b>MICOLET / BECAN COUR</b>	STATE <b>QUEBEC</b>

<b>RECORDING</b>	<input type="checkbox"/> DYNAMITE	<input type="checkbox"/> DINOSEIS	<input type="checkbox"/> AIR-GUN	PERCENT COVERED <b>1200%</b>
	<input type="checkbox"/> WEIGHT DROP	<input checked="" type="checkbox"/> VIBROSEIS	<input type="checkbox"/>	

DAY OF MONTH	NO. SHOTS/INPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 21	4509	65	8.586 Km	13.0	1.0	12.0	LN 78-805 STN 149 TO 213 EOL
TUE 22	2944	46	6.171 Km	7.0	1.0	8.0	LN 78-809 STN 117 TO 175 EARLY DUE TO HEAVY TRAFFIC. START NIGHT WORK
WED 23	1667	26	3.489 Km	4.5	0.5	4.5	LN 78-809 STN 177 TO 263 STOPPED LN 78-809 STN 265 TO 315 (7PM TO MIDNIGHT)
THU 24	7233	67	8.989 Km	10.0	1.0	11.0	LN 78-809 STN 317 TO 449 EOL. (TO 9 AM) LAY OUT ON LINE 78-808 (9 TO 12 MIDNIGHT)
FRI 25	5216	79	10.599	12.5	0.5	11.5	LN 78-808 STN 101 TO 257
SAT 26	5548	87	11.605	12.5	1.0	12.0	LN 78-808 STN 259 TO 413 EOL. LN 78-810 STN 101 TO 117
SUN 27	5083	81	10.868	10.0	0.5	10.0	LN 78-810 STN 119 TO 279 EOL PICKED UP LINE

FOR WEEK	29376	451	60.307	19.5	5.5	69.0	<b>CONTRACT HOURS</b>					
MONTH TO DATE	871	120.429	206.0	23.5	186.0		LAST WEEK		THIS WEEK		MONTH TO DATE	
							OVER	UNDER	OVER	UNDER	OVER	UNDER

UNITS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS	
	NO.	FOOTAGE	HRS.	CHGD	NO.	FOOTAGE	HRS.	CHGD	NO.	FOOTAGE	HRS.	CHGD	NO.	FOOTAGE	HRS.	CHGD		
MON 21	111414				111415				111418				111419				111256	
TUE 22	GUNDERSON				MARCHANT				WIENS				ROLLERMAN				GIBSON	
WED 23																		
THU 24																		
FRI 25																		
SAT 26																		
SUN 27																		
FOR WEEK																		
MONTH TO DATE																		

ELD RECORDER <b>SU-1T</b>	RECORD FILTER <b>80 NORTH IN</b>	SPREAD DISTANCES <b>6720-440-0-440-6720</b>	SOURCE ARRAY <b>4@ 50' MOVE 13'</b>	GEOPHONE ARRAY <b>IN LINE 22'</b>
PI NO. ONE <b>RAIN MAT</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>08-27-78</b>	SIGNATURE (P.C. OR P.M.) <i>R. Clark</i>	

31 AUG 78

CITY NO. 6550	CONTRACT NO. 834	TYPE CONTRACT HOURLY	PARTY MANAGER R. J. CLARK	GEOPHYSICAL SUPERVISOR H. MCGREGOR
CITY ADDRESS P.O. BOX 1087 STN "M"	CITY CALGARY	STATE - ZIP ALBERTA	TELEPHONE 403-253-8281	
POST OFFICE ADDRESS C.P. 118	CITY TROIS RIVIERE	STATE - ZIP QUEBEC	TELEPHONE 819-376-7273	
CLIENT COMPANY SOQUIP	CLIENT SUPERVISOR ANDRE TREPANIER	COUNTY CHAMPLAIN	STATE	

RECORDING  DYNAMITE  DIMPLES  AIR-GUN  WEIGHT DROP  VIBROSEIS  PERCENT COVERED 1200

DAY OF MONTH	NO. SHOTS/INPL	PROFILE MILES NO.	SURFACE	HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
				OBSVD	TRVL	TOTAL	
ON 28	1974	31	4.085 Km	3.5	1.0	6.5	LN 78-801 STN 101 TO 161 RAINED OUT IN AFTERNOON
JE 29	2496	39	5.232 Km	5.5	1.0	6.5	RAIN IN MORNING LN 78-801 STN 163 TO 239 EOL
ED 30	5312	83	11.001 Km	11.5	1.0	12.5	LN 78-811 STN 101 TO 141 EOL LN 78-812 STN 101 TO 223
BU 31	3712	53	7.714 Km	9.0	1.5	10.5	LN 78-812 STN 227 TO 271 EOL LN 78-812 STN 101 TO 167 EOL SERVICE TA

FOR WEEK 13504	211	27.972 Km	31.5	14.5	36.0	CONTRACT HOURS					
			LAST WEEK			THIS WEEK		MONTH TO DATE			
MONTH TO DATE 73024	1027	148.901 Km	202.5	71.0	232.0	OVER	UNDER	OVER	UNDER	OVER	UNDER

UNIT OR CONTRACTOR	UNIT OR CONTRACTOR	UNIT OR CONTRACTOR	UNIT OR CONTRACTOR	UNIT OR CONTRACTOR	REMARKS
111914	111914	111918	111919	111756	
OPERATOR GUNDERSON	OPERATOR MARRIOTT	OPERATOR VIE NS	OPERATOR WELLENMAN	OPERATOR GIBSON	

DAY NO.	NO. HOLES INPL	FOOTAGE DRILLED/TRYRSD	MRS. CHOD CLIENT	NO. HOLES INPL	FOOTAGE DRILLED/TRYRSD	MRS. CHOD CLIENT	NO. HOLES INPL	FOOTAGE DRILLED/TRYRSD	MRS. CHOD CLIENT	NO. HOLES INPL	FOOTAGE DRILLED/TRYRSD	MRS. CHOD CLIENT	NO. HOLES INPL	FOOTAGE DRILLED/TRYRSD	MRS. CHOD CLIENT	REMARKS
ON 28																
JE 29																
ED 30																
BU 31																

FOR WEEK 255	36.0	36.0	10.5	36.0
MONTH TO DATE 164.0	225.0	210.0	158.0	232.5

LD RECORDER	RECORD FILTER	SPREAD DISTANCES	SOURCE ARRAY	GEOPHONE ARRAY
SUA	IT VII	80 METER IN	6720-440-0-440-6720	4@50' MOVE 13' IN LINE 22'
DATE	GEO. FREQUENCY	DATE	SIGNATURE (P.C. OR P.M.)	
10 MAY	10 HZ	31 AUG 78	[Signature]	



ACTIVITY REPORT

# Petty-Ray

WEEK ENDED  
**3 SEP 78**  
GEOPHYSICAL SUPERVISOR  
**H. MCGREGOR**

Partly-Ray Geophysical, Inc.  
PARTY NO. **6850** CONTRACT **834** TYPE CONTRACT **HOURLY** PARTY MANAGER **R. J. CLARK**

SEND MAIL TO  PARTY ADDRESS **P.O. BOX 1087 STN "M"** CITY **CALGARY** STATE - ZIP **ALBERTA** TELEPHONE **403-253-8281**  
 HOT SHOT ADDRESS **C.P. 1118** CITY **TROIS RIVIERES** STATE - ZIP **QUEBEC** TELEPHONE **819-376-7273**

PROSPECT NO. \_\_\_\_\_ CLIENT COMPANY **SOQUIP** CLIENT SUPERVISOR **ANDRE TREPANIER**  
PROSPECT NAME \_\_\_\_\_ COUNTY **NICOLET** STATE \_\_\_\_\_

**RECORDING**  DYNAMITE  DIMOSEIS  AIR-GUN  WEIGHT DROP  VIBROSEIS  \_\_\_\_\_ PERCENT COVERED **1200**

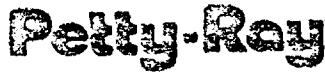
DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN: IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON							
TUE							
WED							
THU							
FRI	1	5408	84	11.2022	10.0	2.0	12.0
SAT	2	4064	62	8.318 Km	10.0	1.5	9.0
SUN	3	0	0	0	0	0	0

TOTALS	CONTRACT HOURS							LAST WEEK		THIS WEEK		MONTH TO DATE	
	FOR WEEK	NO.	NO.	NO.	NO.	NO.	NO.	OVER	UNDER	OVER	UNDER	OVER	UNDER
FOR WEEK	9972	146	19.520 Km	20.0	3.5	21.0							
MONTH TO DATE	9972	146	19.520 Km	20.0	3.5	21.0							

SUNTS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS
	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR				
	111414				111415				111418				111419				111756				
	GUNDERSON				MARCHANT				VIENS				KELLERMAN				GIBSON				
	DAY OF MONTH	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSED	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSED	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSED	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSED	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSED	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSED	HRS. CHGD CLIENT		
MON																					
TUE																					
WED																					
THU																					
FRI	1			0			12.0			12.0			12.0			12.0			12.0		
SAT	2			9.0			9.0			9.0			6.0			3.0			11419 INSTRUMENTS		
SUN	3			0			0			0			0			0			11756 BROKEN U-TOIN		
TOTALS	FOR WEEK			9.0			21.0			21.0			18.0			15.0					
	MONTH TO DATE			9.0			21.0			21.0			18.0			15.0					

FIELD RECORDER **SUM-IT VII** RECORD FILTER **80 NOTCH IN** SPREAD DISTANCES **6720-440-0-440-6720** SOURCE ARRAY **4@ 50' MOVE 13'** GEOPHONE ARRAY **IN LINE 22'**  
TYPE GEOPHONE **MIN MAX** GEO. FREQUENCY **10 HZ** DATE **3 SEP 78** SIGNATURE (P.C. OR P.M.) **H. Black**

WEEKLY ACTIVITY REPORT



Petty-Ray Geophysical, Inc.

WEEK ENDED  
5 SEP 78

PARTY NO. 6850	CONTRACT 834	TYPE CONTRACT MONTHLY	PARTY MANAGER R. J. CLARK	GEOPHYSICAL SUPERVISOR H. MCGREGOR	
PARTY ADDRESS P.O. BOX 1087 STN. "M"		CITY CALGARY	STATE-ZIP ALBERTA	TELEPHONE 403-253-8281	
HOT SHOT ADDRESS C.P. 118		CITY TADIS AVIERE	STATE-ZIP QUEBEC	TELEPHONE 819-367-7273	
PROSPECT NO.	CLIENT COMPANY SOQUIP		CLIENT SUPERVISOR ANDRE TREPANNIER		
PROSPECT NAME			COUNTY	STATE	

RECORDING  DYNAMITE  DINOSEIS  AIR-GUN  WEIGHT DROP  VIBROSEIS  PERCENT COVERED 1200

DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 4	0	0	0	0	0	0	LABOUR DAY HOLIDAY
TUE 5	4416	67	8.922	8.5	2.0	10.5	LN 78-814 STN 101 TO 233 E.O.L. RECORDER DOWN 5 HR.
WED 6							START D.G.E. LN. 2002
THU 7							
FRI 8							
SAT 9							
SUN 10							

TOTALS	FOR WEEK	4416	67	8.922	8.5	2.0	10.5	CONTRACT HOURS				
	MONTH TO DATE	13888	213	28.422	28.5	5.5	31.5	OVER	UNDER	OVER	UNDER	OVER

SUN	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS
	111414				111415				111418				111419				111956				
OPERATOR				OPERATOR				OPERATOR				OPERATOR				OPERATOR					
GUNDERSON				MARCHANT				VIENS				HELLEMAN				GIBSON					
DAY OF MONTH	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSO	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSO	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSO	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSO	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSO	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSO	HRS. CHGD CLIENT			
MON 1			0			0			0			0			0			0			
TUE 5			10.5			10.5			10.5			10.5			10.5			0			
WED 6																					
THU 7																					
FRI 8																					
SAT 9																					
SUN 10																					
TOTALS	FOR WEEK		10.5			10.5			10.5			10.5			10.5			0			
W TUE			19.5			31.5			31.5			28.5			8.0						

FIELD RECORDER SUM-IT VII	RECORD FILTER SDNOTCH IN	SPREAD DISTANCES 6720-440-0-440-6720	SOURCE ARRAY 4@50' MOVE 13'	GEOPHONE ARRAY IN LINE 22'
TYPE GEOPHONE MIN MAX	GEO. FREQUENCY 10 HZ	DATE 5 SEP 78	SIGNATURE (P.C. OR P.M.) R. J. Clark	



WEEKLY ACTIVITY REPORT

**Polly-Ray**

PAGE 2

WEEK ENDED  
**24 SEP 78**

PARTY NO. **8950** CONTRACT **834** TYPE CONTRACT **HOURLY** PARTY MANAGER **R.J. CLARK** GEOPHYSICAL SUPERVISOR **H. MCGREGOR**

PARTY ADDRESS **BOX 1087 STN "M"** CITY **CALCARY** STATE - ZIP **ALBERTA** TELEPHONE **403-253-8281**

NOT SHOT ADDRESS **CR 110** CITY **TRUIS ANNEVES** STATE - ZIP **QUEBEC** TELEPHONE **919-376-7273**

CLIENT COMPANY **SOQUIP** CLIENT SUPERVISOR **ANDRE TREPANNIER**

PROSPECT NAME \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_

**RECORDING**  DYNAMITE  DINOSEIS  AIR-GUN  WEIGHT DROP  VIBROSEIS  PERCENT COVERED **1200**

DAY OF MONTH	NO. SHOTS/INPUT	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 18							
TUE 19							
WED 20							
THU 21							
FRI 22							
SAT 23	5539	87	11.672 Km	11.5	.5	12.0	FINISHED LINE M2002 FOR D.G.E. 78-915 STN. 1091 TO 1261
SUN 24	0	0	0	0	0	0	DAY OFF

FOR WEEK	NO. SHOTS/INPUT	PROFILE MILES		HOURS CHARGED			CONTRACT HOURS					
		NO.	SURFACE	OBSVD	TRVL	TOTAL	LAST WEEK		THIS WEEK		MONTH TO DATE	
MONTH TO DATE							OVER	UNDER	OVER	UNDER	OVER	UNDER
5539	87	11.672 Km	11.5	.5	12.0							
4156	300	40.094 Km	40.0	6.0	43.5							

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS
	DAY OF MO.	NO. HOLES DRILLED/IMPL	FOOTAGE TRVRSD	HRS. CHGD CLIENT	DAY OF MO.	NO. HOLES DRILLED/IMPL	FOOTAGE TRVRSD	HRS. CHGD CLIENT	DAY OF MO.	NO. HOLES DRILLED/IMPL	FOOTAGE TRVRSD	HRS. CHGD CLIENT	
MON 18													
TUE 19													
WED 20													
THU 21													
FRI 22													
SAT 23			12.0	0			12.0			12.0		12.0	
SUN 24			0	0			0			0		0	DAY OFF
TOTALS			12.0	0			12.0			12.0		12.0	
FOR WEEK			12.0	0			12.0			12.0		12.0	
MONTH TO DATE			31.5	0			31.5			30.5		27.0	

FIELD RECORDER **SW 17 VII** RECORD FILTER **9-80 NOTCH IN** SPREAD DISTANCES **5731 - 440 - 0 - 440 - 5720** SOURCE ARRAY **4060'** GEOPHONE ARRAY **INLINE 22'**

MIN **10 Hz** MAX **24 SEP 78** DATE **24 SEP 78** SIGNATURE (P.C. OR P.M.) *[Signature]*

WEEKLY ACTIVITY REPORT

**Petty-Ray**

Petty-Ray Geophysical, Inc.

WEEK ENDED  
**26 NOV 78**

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R.J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A.J. FRANCE</b>	
PARTY ADDRESS <b>P.O. BOX 1087 STN "M"</b>		CITY <b>CALGARY</b>	STATE-ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>	
HOT SHOT ADDRESS <b>C.P. 9</b>		CITY <b>BERNARD</b>	STATE-ZIP <b>QUEBEC</b>	TELEPHONE	
PROSPECT NO	CLIENT COMPANY <b>SOQUIP</b>		CLIENT SUPERVISOR <b>HANDRE TREPANIER</b>		
PROSPECT NAME			COUNTY	STATE	

RECORDING  DYNAMITE  DINOSEIS  AIR-GUN  PERCENT COVERED **1200**  
 WEIGHT DROP  VIBROSEIS

	DAY OF MONTH	NO. SHOTS/IMPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON	20	4992	59	7.849 Km	10.0	1.0	11.0	LN 78-817 BDL STN 101 TO STN 217 EOL
TUE	21	5056	79	8.000 Km	11.0	1.0	12.0	165' STN INTERVAL LN 78-818 BDL STN 101 TO 257
WED	22	4288	44	5.199 Km	10.0	1.0	11.0	LN 78-818 STN 259 TO 295 BDL 165' INT LN 78-820 STN 101 TO 249, 120' INT HEAVY TRAFFIC
THU	23	5696	45	6.238 Km	10.0	1.0	11.0	PICK UP LINE - SNOW FORECAST LN 78-823 STN 151 TO 239
FRI	24	0	0	0	2.0	1.0	0	MAINTENANCE ON CABLES, GEOPHONES ETC. HEAVY SNOW - SERVICE VEHICLES ALL DAY
SAT	25	1472	13	1.744 Km	9.0	2.0	10.5	WET SLUSHY SNOW SALTED HIGHWAYS, SALT DOWN AT 2:15 PM FOR LOUAGRE - TRIPD AGAIN 6 PM. NG. LN 78-823 STN 241 TO 265 TEMP. SNOW DOWN LATE
SUN	26	0	0	0	0	0	0	WAL PROCESS 25% PRODUCTION TO DECIDE ON RETURN DAY OFF MOVE TO RIVIERE DU LOUP 27th.

TOTALS	FOR WEEK	21574	240	28.830 Km	52.0	7.0	55.5	CONTRACT HOURS					
	MONTH TO DATE	96772	746	96.719 Km	302.5	39.0	231.5	LAST WEEK		THIS WEEK		MONTH TO DATE	
								OVER	UNDER	OVER	UNDER	OVER	UNDER

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS
	NO.	FOOTAGE DRILLED/IMPL	HRS. CHOD/CLIENT	NO.	FOOTAGE DRILLED/IMPL	HRS. CHOD/CLIENT	NO.	FOOTAGE DRILLED/IMPL	HRS. CHOD/CLIENT	NO.	FOOTAGE DRILLED/IMPL	HRS. CHOD/CLIENT	NO.	FOOTAGE DRILLED/IMPL	HRS. CHOD/CLIENT	
	117414			111415			111418			111419			111756			
	NADBAH			MARCHANT			BARR			KELLERMAN			GIBSON			
	20		0			11.0			11.0			11.0			11.0	
	21		12.0			0			12.0			12.0			12.0	
WED	22		11.0			11.0			0			11.0			11.0	
THU	23		11.0			11.0			11.0			0			11.0	
FRI	24		0			0			0			0			0	
SAT	25		10.5			10.5			10.5			10.5			0	
SUN	26		0			0			0			0			0	
TOT	FOR WEEK		44.5			43.5			44.5			44.5			45.0	
	MONTH TO DATE		92.5			135.0			131.5			131.5			198.5	

FIELD RECORDER <b>SMITH VII</b>	RECORD FILTER	SPREAD DISTANCES <b>5720-440.0-440-5720</b>	SOURCE ARRAY <b>4 @ 60'</b>	GEOPHONE ARRAY <b>INLINE 22'</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 Hz</b>	DATE <b>26 NOV 78</b>	SIGNATURE (P.C. OR P.M.) <i>[Signature]</i>	

WEEKLY ACTIVITY REPORT

**Petty-Ray**

Petty-Ray Geophysical, Inc.

WEEK ENDED

30 NOV 78

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R.J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A.J. FRANCE</b>	
SEND <input checked="" type="checkbox"/> M	PARTY ADDRESS <b>P.O. BOX 1087 STN "M"</b>		CITY <b>CALGARY</b>	STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>
	HOT SHOT ADDRESS <b>GENERAL DELIVERY</b>		CITY <b>RIVIERE DU LOUP</b>	STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>418-</b>
PROSPECT NO.	CLIENT COMPANY <b>SOQUIP</b>		CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>		
PROSPECT NAME			COUNTY	STATE	

<b>RECORDING</b>	<input type="checkbox"/> DYNAMITE	<input type="checkbox"/> DINOSEIS	<input type="checkbox"/> AIR-GUN	PERCENT COVERED <b>1200/1400</b>
	<input type="checkbox"/> WEIGHT DROP	<input type="checkbox"/> VIBROSEIS		

	DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON	27	0	0	0	0	10.0	10.0	MOVE FROM QUEBEC CITY TO RIVIERE DU LOUP
TUE	28	12	3	0	10.0	2.0	10.0	CUTLINE - VEHICLES STUCK, DRAGOUTS, TAPE TWT PROBLEM LN 78-207 NOISE STUDY CABLE PROBLEMS ADD 13 NOISE STUDY PROFILES - 2400% COVERAGE
WED	29	2240	17	8.05 Km	9.0	2.0	11.0	LN 78-202 STN 101 TO 118 - 5 STACK ON 101
THU	30	2496	39	4.361 Km	10.5	2.0	11.5	VIB. PROBLEM 45 MIN. 1200% TO STN 169 THEN 2400% TO END OF LINE LN 78-202 STN 115 TO 180
FRI								
SAT								
SUN								

TOTALS	CONTRACT HOURS												
	FOR WEEK	MONTH TO DATE	NO.	PROF. MILES	OBSVD	TRVL	TOTAL	LAST WEEK	THIS WEEK	MONTH TO DATE			
	4748	9120	59	5.166 Km	29.5	16.0	42.5	OVER	UNDER	OVER	UNDER	OVER	UNDER
		9120	905	101.885 Km	232.0	55.0	274.0						

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS	
	DAY OF MONTH	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRS	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRS		HRS. CHGD CLIENT
MON	27			10.0			10.0			10.0			10.0			10.0	
TUE	28			0			13.0			12.0			10.0			10.0	
WED	29			13.0			0			11.0			11.0			11.0	
THU	30			11.5			11.5			0			11.5			11.5	
FRI																	
SAT																	
SUN																	
TOTALS	FOR WEEK			32.5			31.5			31.0			42.5			42.5	
	MONTH TO DATE			915.0			916.6			912.5			924.0			941.0	

FILE RECORDER <b>S.M. IT VII</b>	RECORD FILTER <b>9-80</b>	BSPREAD DISTANCES. <b>5720-440-0-440-5720</b>	SOURCE ARRAY <b>4 @ 60'</b>	GEOPHONE ARRAY <b>INLINE 22'</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>NOV 78</b>	SIGNATURE (P.C. OF P.M.) <b>[Signature]</b>	



WEEKLY ACTIVITY REPORT

# Petty-Roy

Petty-Roy Geophysical, Inc.

WEEK ENDED

3 DEC 78

PARTY NO. 6850	CONTRACT 334	TYPE CONTRACT HOURLY	PARTY MANAGER A. J. CLARK	GEOPHYSICAL SUPERVISOR A. J. FRANCE	
SEND MAIL <input checked="" type="checkbox"/>	PARTY ADDRESS P.O. BOX 1087 STN "M"		CITY CALGARY	STATE-ZIP ALBERTA	TELEPHONE 403-253-8281
<input type="checkbox"/>	HOT SHOT ADDRESS GENERAL DELIVERY		CITY RIVIERE DU LOUP	STATE-ZIP QUEBEC	TELEPHONE Y16972
PROSPECT NO.	CLIENT COMPANY SOQUIP			CLIENT SUPERVISOR ANDRE TREPANIER	
PROSPECT NAME				COUNTY	STATE

**RECORDING**     DYNAMITE     DINOSZIS     AIR-GUN     WEIGHT DROP     VIBROSEIS     PERCENT COVERED  
1200

DAY OF MONTH	NO. SHOTS/IMPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL, WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON							
TUE							
WED							
THU							
FRI	1	1696	33	2.147 Km	10.5	2.0	11.0
SAT	2	2048	31	2.818 Km	8.5	2.0	10.5
SUN	3	0	0	0	0	0	0

*LN 78-202 STN 191 TO 201 50L DO COMPARISON SHOT SUMMIT VII + MDS 10  
LN 78-203 STN 97 TO 99 BAR AFTER LN CHANGE  
2400% TO ST. 119 THEN 1200%  
LN 78-203 STN 101 TO 113*

TOTALS	CONTRACT HOURS									
	FOR WEEK		LAST WEEK		THIS WEEK		MONTH TO DATE			
	OVER	UNDER	OVER	UNDER	OVER	UNDER	OVER	UNDER	OVER	UNDER
	3744	64	4.965 Km	19.0	4.0	21.5				
MONTH TO DATE	3744	64	4.965 Km	19.0	4.0	21.5				

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS
	111414			111415			111418			111419			111756			
	OPERATOR MADEAU			OPERATOR MARCHANT			OPERATOR BARR			OPERATOR KELLERMAN			OPERATOR GIBSON			
DAY OF MONTH	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	
MON																
TUE																
WED																
THU																
FRI	1			11.0			11.0			11.0			11.0		0	
SAT	2			0			10.5			10.5			10.5		10.5	
SUN	3			0			0			0			0		0	
TOTAL	FOR WEEK			11.0			21.5			21.5			21.5		10.5	
	MONTH TO DATE			11.0			21.5			21.5			21.5		10.5	

D RECORDER SUMMIT VII LN 202 ONLY MDS 10	RECORD FILTER 9-125	SPREAD DISTANCES 6380-1320-0-1320-6380	SOURCE ARRAY 4@60'	GEOPHONE ARRAY INLINE 22'
TYPE GEOPHONE MIN MAX	GEO. FREQUENCY 1042	DATE 3 DEC 78	SIGNATURE (P.C. OR P.M.) A. J. Clark	

WEEKLY ACTIVITY REPORT

# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED

17 DEC 78

PARTY NO. 6850	CONTRACT 834	TYPE CONTRACT HARPLY	PARTY MANAGER R. J. CLARK	GEOPHYSICAL SUPERVISOR A. J. FRANCE	
PARTY ADDRESS P.O. BOX 1087 STN "M"		CITY CALGARY		STATE-ZIP ALBERTA	TELEPHONE 403-253-8281
HOT SHOT ADDRESS C.P. 9		CITY BERNIEARS		STATE-ZIP QUEBEC	TELEPHONE 456-9772
PROSPECT NO.		CLIENT COMPANY SODQUIP		CLIENT SUPERVISOR ANDRE TREPANIER	
PROSPECT NAME				COUNTY	STATE

## RECORDING

DYNAMITE     DINOSEIS     AIR-GUN  
 WEIGHT DROP     VIBROSEIS     \_\_\_\_\_

PERCENT COVERED

1200

DAY OF MONTH	NO. SHOTS/IMPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR, NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 11	0	0	0	0	2.5	2.5	MOVED FROM RIVIERE DU LOUP STN DID REPAIR & MAINTENANCE GEO. & CABLE
TUE 12	1440	21	2.482 Km	9.0	2.0	11.0	VIBS. STUCK 3HRS. ROUNG, ICY. STN 595 - EXPERIMENTAL LN 78-819 STN 645 TO 611(609)
WED 13	1728	27	3.622 Km	9.5	2.0	11.5	ROUNG, ICE, SNOWING. LN 78-819 STN 605(607) TO 555
THU 14	384	6	.905 Km	7.5	2.0	9.5	SLOW - WAIT FOR LINE CLEARING, STUCK, ETC. LN 78-819 STN 553 TO 551(543)
FRI 15	1728	27	3.622 Km	8.5	2.0	10.5	SNOWING - 30 STN DRAGOUT LN 78-819 STN 541 TO 489 SHUT DOWN TO
SAT 16	1344	21	2.817 Km	7.0	2.0	9.0	AC PROBLEMS - DRAGOUT IN HEAVY SNOW LN 78-819 STN 487 TO 433(442)
SUN 17	0	0	0	0	0	0	DAY OFF

TOTALS	FOR WEEK		CONTRACT HOURS		LAST WEEK		THIS WEEK		MONTH TO DATE	
	OVER	UNDER	OVER	UNDER	OVER	UNDER	OVER	UNDER	OVER	UNDER
MONTH TO DATE	2172	345	36.559 Km	112.0	28.5	146.0				

UNITS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS				
	111414				111415				111418				111419					111756			
	OPERATOR				OPERATOR				OPERATOR				OPERATOR								
	MADEAU				MARCHANT				BARR				HELLERMAN				GIBSON				
	DAY OF MONTH	NO. HOLES/IMPL	FOOTAGE DRILLED/TRYRSD	HRS. CHGD CLIENT	NO. HOLES/IMPL	FOOTAGE DRILLED/TRYRSD	HRS. CHGD CLIENT	NO. HOLES/IMPL	FOOTAGE DRILLED/TRYRSD	HRS. CHGD CLIENT	NO. HOLES/IMPL	FOOTAGE DRILLED/TRYRSD	HRS. CHGD CLIENT	NO. HOLES/IMPL	FOOTAGE DRILLED/TRYRSD	HRS. CHGD CLIENT	NO. HOLES/IMPL	FOOTAGE DRILLED/TRYRSD	HRS. CHGD CLIENT		
	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	12			11.0			11.0			11.0			11.0			11.0			11.0		
	13			11.5			11.5			11.5			11.5			11.5			11.5		
	14			9.5			9.5			9.5			9.5			9.5			9.5		
	15			10.5			10.5			10.5			10.5			10.5			10.5		
	16			9.0			9.0			9.0			9.0			9.0			9.0		
	17			0			0			0			0			0			0		
TOTAL	FOR WEEK			42.0			40.0			40.0			43.0			41.0					
	MONTH TO DATE			112.5			121.0			120.0			122.0			102.5					

FIELD RECORDER MDS 10	RECORD FILTER 9-125	SPREAD DISTANCES 5730-440-0-440-5730	SOURCE ARRAY 4x50'	GEOPHONE ARRAY INLINE 22'
TYPE GEOPHONE MIN MAX	GEO. FREQUENCY 10 Hz	DATE 17 DEC 78	SIGNATURE (P.G. OR P.M.) <i>[Signature]</i>	

WEEKLY ACTIVITY REPORT

# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED  
**24 DEC 78**  
 GEOPHYSICAL SUPERVISOR  
**A. S. FRANCE**

PARTY NO. **6850** CONTRACT **834** TYPE CONTRACT **HOURLY** PARTY MANAGER **R. J. CLARK**

ND  PARTY ADDRESS **PO. BOX 1087 STN "M" CALGARY ALBERTA** CITY **CALGARY** STATE-ZIP **ALBERTA** TELEPHONE **403-253-8221**  
 L  HOT SHOT ADDRESS **C. P. 9** CITY **BENNEVILLE** STATE-ZIP **QUEBEC** TELEPHONE **516-9772**  
 TO

PROSPECT NO. CLIENT COMPANY **SOQUIP** CLIENT SUPERVISOR **ANDRE TREPANIER**

PROSPECT NAME COUNTY STATE

RECORDING  DYNAMITE  DINOSEIS  AIR-SUN  WEIGHT DROP  VIBROSEIS  PERCENT COVERED **1200**

DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVE	TOTAL	
MON 18	0	0	0	2.0	2.0	4.0	SNOWSTORM. ROADS VERY DANGEROUS. PARKED UP LINE THROUGH DRAGOUT MAKE STORM PAST 30 TO 40 MPH WIND -13°C BLOWING SNOW
TUE 19	1994	30	4.025 Km	10.0	2.0	12.0	LN 78-319 STN 435(445) TO 387 COAR!
WED 20	0	0	0	0	0	0	WX DAY
THU 21							TRAVEL HOME FOR XMAS
FRI 22							XMAS BREAK
SAT 23							
SUN 24							

TOTALS	FOR WEEK		CONTRACT HOURS			
	1988	30	4.025 Km	12.0	4.0	16.0
	MONTH TO DATE	3776	375	40.584 Km	124.0	32.5
	OVER	UNDER	OVER	UNDER	OVER	UNDER

UNITS	UNIT OR CONTRACTOR		UNIT OR CONTRACTOR		UNIT OR CONTRACTOR		UNIT OR CONTRACTOR		UNIT OR CONTRACTOR		REMARKS	
	111414		111415		111418		111419		111756			
	OPERATOR NADEAU		OPERATOR MARCHANT		OPERATOR BARR		OPERATOR HELLMAN		OPERATOR GIBSON			
DAY OF MONTH	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSD	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSD	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSD	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE DRILLED/TRVRSD	HRS. CHGD CLIENT
MON 18			0			0			0			0
TUE 19			12.0			12.0			12.0			0
WED 20			0			0			0			0
THU 21												
FRI 22												
SAT 23												
SUN 24												
TOTALS			12.0			12.0			12.0			0
MONTH TO DATE			124.5			132.0			132.0			102.5

FIELD RECORDER **MDS-10** RECORD FILTER **9-125** SPREAD DISTANCES **5720-440-0440-5720** SOURCE ARRAY **4X50'** GEOPHONE ARRAY **IN LINE 22'**  
 TYPE GEOPHONE **MINI MAX** GEO. FREQUENCY **10 HZ** DATE **20 DEC 78** SIGNATURE (P.C. OR P.N.) *[Signature]*



# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED

31 DEC 78

PARTY NO. <b>6850</b>	CONTRACT <b>839</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R.J. CLARK</b>	GEOPHYSICAL SUPERVISOR	
PARTY ADDRESS <b>P.O. BOX 1087 STN M'</b>		CITY <b>CALGARY</b>	STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>	
NOT SHOT ADDRESS <b>C.P. 9</b>		CITY <b>BEAVERES</b>	STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>456 9772</b>	
PROSPECT NO.		CLIENT COMPANY <b>SOQUIP</b>	CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>		
PROSPECT NAME			COUNTY	STATE	

## RECORDING

<input type="checkbox"/> DYNAMITE	<input type="checkbox"/> DINOSEIS	<input type="checkbox"/> AIR-GUN	PERCENT COVERED <b>1200</b>
<input type="checkbox"/> WEIGHT DROP	<input checked="" type="checkbox"/> VIBROSEIS	<input type="checkbox"/>	

DAY OF MONTH	NO. SHOTS/INPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 25	0	0	0	0	0	10.0	XMAS HOLIDAY XMAS BREAK
TUE 26							
WED 27							
THU 28							
FRI 29							
SAT 30							
SUN 31							

TOTALS	FOR WEEK	0	0	0	0	0	10.0	CONTRACT HOURS					
	MONTH TO DATE	7377.6	375	40.584 Km	124.0	32.5	172.0	OVER	UNDER	OVER	UNDER	OVER	UNDER

UNITS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS
	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR			
	111414	111415	111418	111419	111756												
	NADEAU	MARCHANT	BARR	KELLEMAN	GIBSON												
	DAY OF NO.	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	
MON 25				0			0			0			0				
TUE 26																	
WED 27																	
THU 28																	
FRI 29																	
SAT 30																	
SUN 31																	
TOTAL	FOR WEEK			0			0			0			0				
	MONTH TO DATE			1945			132.0			132.0			134.0			102.5	

XMAS BREAK

FIELD CORDER <b>INDS 10</b>	RECORD FILTER <b>9-125</b>	SPREAD DISTANCES <b>5720-440-0-440-5720</b>	SOURCE ARRAY <b>4X50</b>	GEOPHONE ARRAY <b>IN-LINE 22'</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>20 DEC 78</b>	SIGNATURE (P.C. OR P.M.) <i>[Signature]</i>	

# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED

7 JAN 79

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A. J. FRANCE</b>	
PARTY ADDRESS <b>P.O. BOX 1087 STN "M"</b>		CITY <b>CALGARY</b>	STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-9291</b>	
HOT SHOT ADDRESS <b>C.P. 9</b>		CITY <b>BEAVERES</b>	STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>516-9773</b>	
PROSPECT NO.	CLIENT COMPANY <b>SOQUIP</b>		CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>		
PROSPECT NAME			COUNTY	STATE	

**RECORDING**     DYNAMITE     DIMOSEIS     AIR-GUN    PERCENT COVERED **1200**  
 WEIGHT-DROP     VIBROSEIS   

	DAY OF MONTH	NO. SHOTS/IMPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON	1	0	0	0	0	0	0	NEW YEARS DAY
TUE	2	0	0	0	0	0	0	TRAVEL BACK TO WORK
WED	3	960	15	2.012 Km	8.5	2.0	7.0	3 HRS. LOAD CABLE - ARRIVE AFTER XMAS BREAK LN 819 STN 325 TO 357
THU	4	1600	25	3.354 Km	9.0	2.0	11.0	LN 819 STN 355 TO 302(302)
FRI	5	2944	45	6.037 Km	11.0	2.0	13.0	LN 819 STN 301(305) TO 219(212)
SAT	6	0	0	0	2.5	2.0	4.5	GEOPHONES SATURATED WITH SALT FROM ROAD CLEARING, PICKED UP, WASHED LN 819 STN - AND DRAIN THEM
SUN	7	0	0	0	0	0	0	DAY OFF

TOTALS	FOR WEEK	5504	85	11.403 Km	31.0	8.0	35.5	CONTRACT HOURS					
	MONTH TO DATE	5504	85	11.403 Km	31.0	8.0	35.5	LAST WEEK	THIS WEEK	MONTH TO DATE			
								OVER	UNDER	OVER	UNDER	OVER	UNDER

UNITS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS				
	111414				111415				111418				111419					111756			
	OPERATOR MADEAU				OPERATOR MARCHANT				OPERATOR BARR				OPERATOR KELLEMAN					OPERATOR GIBSON			
DAY OF MO.	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT			
MON	1		0			0			0			0			0				0		
TUE	2		0			0			0			0			0				0		
WED	3		7.0			7.0			7.0			7.0			7.0				7.0		
THU	4		0			11.0			11.0			11.0			11.0				11.0		
FRI	5		13.0			0			13.0			13.0			13.0				13.0		
SAT	6		4.5			4.5			4.5			4.5			4.5				4.5		
SUN	7		0			0			0			0			0				0		
TOTALS	FOR WEEK		24.5			22.5			31.0			35.5			28.5				28.5		
	MONTH TO DATE		24.5			22.5			31.0			35.5			28.5				28.5		

RECORDER <b>MDS-10</b>	RECORD FILTER <b>9-125</b>	SPREAD DISTANCES <b>5720-440-0-440-5720</b>	SOURCE ARRAY <b>4x50'</b>	GEOPHONE ARRAY <b>INLINE 22'</b>
TYPE GEOPHONE <b>MIN-MAX</b>	GEO. FREQUENCY <b>10 Hz</b>	DATE <b>7 JAN 79</b>	SIGNATURE (P.C. OR P.M.) <i>[Signature]</i>	



WEEKLY ACTIVITY REPORT

# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED  
**14 JAN 79**  
 GEOPHYSICAL SUPERVISOR  
**A. J. FRANCE**

PARTY NO. **5850** CONTRACT **834** TYPE CONTRACT **HOURLY** PARTY MANAGER **R. J. CLARK**

PARTY ADDRESS **P.O. BOX 1087 STN "M"** CITY **CALGARY** STATE-ZIP **ALBERTA** TELEPHONE **403-253-8281**

HOT SHOT ADDRESS **C.P. 9** CITY **BEAVERHEAD** STATE-ZIP **QUEBEC** TELEPHONE **456-9773**

CLIENT COMPANY **SOQUIP** CLIENT SUPERVISOR **ANDRE TREPANIER**

COUNTY \_\_\_\_\_ STATE \_\_\_\_\_

RECORDING  DYNAMITE  DINOSEIS  AIR-GUN  WEIGHT DROP  VIBROSEIS  PERCENT COVERED **1200**

DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN: IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 8	0	0	0	7.0	2.0	0	LAD OUT LINE - STILL UNABLE TO WORK PICK LINE UP, WORK ON GEOPHONES. CHD AND KNICKS ON OLD THINGS PLUS SALT ON ROADS!
TUE 9	0	0	0	4.5	0	0	CHECKED OUT GEOPHONES DID REPAIR & MAINTENANCE
WED 10	768	16	NOISE STUDY	9.0	3.0	9.5	SHALL N.G. NEW PHONES COMING FROM CALGARY. NEW PHONES ARRIVED - TO FIELD AT 9:00 A.M. LN 78-824 INST. PROBLEM 2 HR. DID NOISE STUDY TO DETERMINE STN. INT. NEW ENGINE FOR REORDER OVERNIGHT
THU 11	2304	36	4.830	10.0	1.5	0	LN 78-819 RE-SHOOT 225 TO 225 PETTY RAY CHG. RE-SHOOT 223 - 217 - PETTY RAY CHG 1/2 HR
FRI 12	2752	43	5.769 Km	7.5	1.5	9.5	LN 78-819 - 215 TO 139 EQL. VIB DOWN 1.5 HRS
SAT 13	4640	59	7.849 Km	12.0	1.5	10.0	LN 78-821 STN 101 TO 217 BOL BOL
SUN 14	0	0	0	0	0	0	DAY OFF

TOTALS	FOR WEEK		CONTRACT HOURS		LAST WEEK		THIS WEEK		MONTH TO DATE	
	OVER	UNDER	OVER	UNDER	OVER	UNDER	OVER	UNDER	OVER	UNDER
MONTH TO DATE	15968	239	29.851 Km	79.0	17.5	63.5				

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS	
	DAY OF MO.	NO. HOLES DRILLED/IMPL	FOOTAGE TRVRS	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE TRVRS	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE TRVRS	HRS. CHGD CLIENT	NO. HOLES DRILLED/IMPL	FOOTAGE TRVRS		HRS. CHGD CLIENT
MO 8				9.0			9.0			9.0				
TUE 9				0			0			0				11756 REAR ENGINE OIL
WED 10				12.0			12.0			12.0				
THU 11				11.5			11.5			11.5				
FRI 12				8.5			8.5			8.5				
SAT 13				11.5			10.0			11.5				
SUN 14				0			0			0				
TOTALS				52.5			51.0			52.5				
MONTH TO DATE				77.0			73.5			88.0				78.5

FIELD RECORDER **MDS 10** RECORD FILTER **9-125** SPREAD DISTANCES **5720-440.0-440-5720** SOURCE ARRAY **4 X 50'** GEOPHONE ARRAY **INLINE 22'**

TYPE GEOPHONE **MIN MAX** GEO. FREQUENCY **10 Hz** DATE **JAN 79** SIGNATURE (P.C. OR P.M.) **[Signature]**

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A. J. FRANCE</b>	
PARTY ADDRESS <b>P.O. BOX 1077 STN IMY</b>		CITY <b>CALGARY</b>		STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>
HOT SHOT ADDRESS <b>C. P. 9</b>		CITY <b>BERNIERES</b>		STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>476-9773</b>
PROSPECT NO.		CLIENT COMPANY <b>SOLLIP</b>		CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>	
PROSPECT NAME				COUNTY	STATE

## RECORDING

DYNAMITE     DIMOSEIS     AIR-GUN    PERCENT COVERED  
 WEIGHT DROP     VIBROSEIS        **1200**

	DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON	15	1920	24	2.715 Km	10.0	2.0	11.0	15' STAKE INTERVAL - LAST 1 HR VEHICLES NOT STARTING IN MORNING & SNOWED IN. LN 78-822 VP 121(92) TO 129
TUE	16	2496	26	2.616 Km	11.0	2.0	7.5	WORKING 30133. 825MPS 2.15 CHECKED FOR EXTRA SW DOWN 3.15 BROKEN PIN IN PLUG ON VIB. LN 78-822 VP 141 TO 159
WED	17	4800	50	5.031 Km	10.5	2.0	12.5	LAI D OUT PART OF LINE 78-823 LN 78-822 VP 171 TO 229 E.O.L.
THU	18	3072	32	3.220 Km	10.0	2.0	11.0	VIB DOWN 1 HR LN 78-823 BAL VP 189 TO 119(122) E.O.L.
FRI	19	3552	44	4.428 Km	13.0	2.0	15.0	VIBS STUCK - LINE A MESS! LN 78-824 BOL VP 101 TO 187
SAT	20	3126	49	4.931 Km	9.5	2.0	11.5	LN 78-824 VP 199 TO 225
SUN	21	0	0	0	0	0	0	DAY OFF - WIZZARD!

TOTALS	FOR WEEK	18976	225.0	22.591 Km	64.0	12.0	88.5	CONTRACT HOURS					
	MONTH TO DATE							LAST WEEK		THIS WEEK		MONTH TO DATE	
		OVER	UNDER	OVER	UNDER	OVER	UNDER	OVER	UNDER				

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS
	111414			111415			111418			111419			111756			
	OPERATOR			OPERATOR			OPERATOR			OPERATOR			OPERATOR			
HADJAN			HENRY			BOUCHER			KELGORMAN			GIBSON				
DAY OF MONTH	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSO	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSO	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSO	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSO	HRS. CHGD CLIENT	
MON	15		12.0			12.0			12.0			12.0			12.0	111756 REAR ENGINE O'HRAUL
TUE	16		0		10.0			13.0			13.0			13.0		1144 REAR ENGINE BLOWN 11405 BROKEN PIN IN PLUG
WED	17		12.5			12.5			12.5			12.5			12.5	
THU	18		11.0			11.0			11.0			11.0			11.0	
FRI	19		15.0			15.0			15.0			15.0			15.0	
SAT	20		11.5			11.5			11.5			11.5			11.5	
SUN	21		0			0			0			0			0	
TOTALS			62.0			72.0			72.0			72.0			72.0	
			139.0			145.5			153.5			160.0			168.5	

FIELD RECORDER <b>MDS-10</b>	RECORD FILTER <b>9-125</b>	SPREAD DISTANCES <b>4455-660-0-660-4455</b>	SOURCE ARRAY <b>4X50'</b>	GEOPHONE ARRAY <b>IN LINE 22'</b>
TYPE GEOPHONE <b>MAIN MAX</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>21 JAN 79</b>	SIGNATURE (P.C. OR P.M.) <i>[Signature]</i>	

WEEKLY ACTIVITY REPORT

**Petty-Ray**

Petty-Ray Geophysical, Inc.

PARTY NO. <b>6950</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>Hourly</b>	PARTY MANAGER <b>B. J. CLARK</b>
PARTY ADDRESS <b>P.O. BOX 1087 STN. M.</b>		CITY <b>CALGARY</b>	
HOT SHOT ADDRESS <b>C.P. 9</b>		CITY <b>BERNIERES</b>	
PROSPECT NO.		CLIENT COMPANY <b>SDQUIP</b>	

**RECORDING**  DYNAMITE  DINOSEIS  AIR-GUN  PERCENT COVERED **120**  
 WEIGHT DROP  VIBROSEIS

DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK ALL WEATHER & TERRAIN CONDITIONS PARTY BASE MOVED, # HRS. MILES
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 22	0	0	0	0	0	0	✓
TUE 23	64	1	0.67 Km	6.5	2.0	0	✓ DIGGING DOWN LINE NOT READY TO LINE AT 10:00 AM LN 78-82
WED 24	3520	56	5.534 Km	10.5	2.0	12.0	✓ VIBS DOWN LN 78-82
THU 25	0	0	0	0	0	0	✓ NX DAY -
FRI 26	2496	39	3.924 Km	9.5	2.0	11.5	✓ START RPT FROM LN 78-82
SAT 27	960	15	1.459 Km	10.0	2.0	9.5	✓ 2 HRS. RPT LN 78-82
SUN 28	3328	52	5.233 Km	11.0	2.0	12.5	✓ BAD TAPE PROBLEM LN 78-82
TOTALS	FOR WEEK <b>10368</b>	<b>162.0</b>	<b>16.217 Km</b>	<b>47.5</b>	<b>10.0</b>	<b>46.5</b>	LAST WEEK
MONTH TO DATE	<b>45812</b>	<b>625</b>	<b>68.659 Km</b>	<b>190.5</b>	<b>37.5</b>	<b>177.5</b>	OVER UNDE

UNIT OR CONTRACTOR	OPERATOR	DAY OF MONTH	NO HOLES DRILLED/IMPUL	FOOTAGE DRILLED/TKVRS	HRS. CADD SLIEN	NO HOLES DRILLED/IMPUL	FOOTAGE DRILLED/TKVRS	HRS. CADD SLIEN	NO HOLES DRILLED/IMPUL	FOOTAGE DRILLED/TKVRS	HRS. CADD SLIEN	NO HOLES DRILLED/IMPUL	FOOTAGE DRILLED/TKVRS	HRS. CADD SLIEN			
															UNIT OR CONTRACTOR	OPERATOR	
111414	NADDAH	22	0	0	0	11415	MONNE	23	8.5	8.5	8.5	11418	DOUGHER	24	12.5	12.5	12.5
11419	...	25	0	0	0	11419	...	26	11.5	11.5	11.5	11419	...	27	0	0	0
11419	...	28	0	0	0	11419	...	28	0	0	0	11419	...	28	0	0	0
TOTALS	FOR WEEK	22	0	0	0	23	8.5	8.5	24	12.5	12.5	25	0	0	0	0	
MONTH TO DATE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

FIELD RECORDER: **MDS 10**  
 TYPE GEOPHONE: **MIN MAX**

*[Handwritten notes and signatures on the right side of the page, including dates and names.]*



# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED  
**31 JAN 78**

PARTY NO. <b>850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>H. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A. J. FRANCE</b>	
PARTY ADDRESS <b>P.O. BOX 1087 SYN M</b>		CITY <b>CALGARY</b>	STATE-ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>	
HOT SHOT ADDRESS <b>C. P. 9</b>		CITY <b>BERNIERES</b>	STATE-ZIP <b>QUEBEC</b>	TELEPHONE <b>456 9773</b>	
PROSPECT NO.		CLIENT COMPANY <b>SOQUIP</b>	CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>		
PROSPECT NAME			COUNTY	STATE	

<b>RECORDING</b>	<input type="checkbox"/> DYNAMITE	<input type="checkbox"/> DINOSEIS	<input type="checkbox"/> AIR-GUN	PERCENT COVERED <b>1200</b>
	<input type="checkbox"/> WEIGHT DROP	<input checked="" type="checkbox"/> VIBROSEIS	<input type="checkbox"/>	

	DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL, WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON	29	4576	28	4.528 Km	11.0	2.0	13.0	LN 78-8255 VP 223-311 50L 165' INTERVAL
TUE	30	4864	76	3.690 Km	11.5	2.0	12.5	LN 78-825N VP 79-123 220' INTERVAL VIB DOWN 1 HR.
WED	31	4238	67	10.197 Km	10.0	2.0	12.0	LN 78-825N VP 125-285 REASON - CLIENT REQUEST
THU				8.922 Km				LN 78-814 VP 101-222 50L
FRI								
SAT								
SUN								PLUS 10 HRS. FOR NEW YEARS DAY

TOTALS	FOR WEEK	13728	216	27,337 Km	32.5	6.0	37.5	CONTRACT HOURS				
	MONTH TO DATE	59740	842	95,996 Km	233.0	45.5	215.0	OVER	UNDER	OVER	UNDER	OVER

UNITS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS				
	111414				111415				111418				111419					111756			
	OPERATOR				OPERATOR				OPERATOR				OPERATOR								
	MADEAU				JALBERT				BOUCHER				KELLERMAN				GIBSON				
	DAY	NO. HOLES	FOOTAGE	HRS.	NO. HOLES	FOOTAGE	HRS.	NO. HOLES	FOOTAGE	HRS.	NO. HOLES	FOOTAGE	HRS.	NO. HOLES	FOOTAGE	HRS.	NO. HOLES	FOOTAGE	HRS.		
	OF	DRILLED	CHANGED	CLIENT	DRILLED	CHANGED	CLIENT	DRILLED	CHANGED	CLIENT	DRILLED	CHANGED	CLIENT	DRILLED	CHANGED	CLIENT	DRILLED	CHANGED	CLIENT		
MON	29						13.0			13.0			13.0								
TUE	30						13.5			13.5			13.5								
WED	31						12.0			12.0			12.0								
THU																					
FRI																					
SAT																					
SUN																					
TOTALS							38.5			38.5			38.5							38.5	
	MONTH TO DATE						171.5			241.5			251.5							236.0	92.0

FIELD RECORDER <b>MDS 10</b>	RECORD FILTER <b>9-125</b>	SPREAD DISTANCES <b>4455-660-0-660-4455</b>	SOURCE ARRAY <b>4X50'</b>	GEOPHONE ARRAY <b>INLINE 22'</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>31 JAN 78</b>	SIGNATURE (P.C. OR P.M.) <b>[Signature]</b>	

WEEKLY ACTIVITY REPORT

WEEK ENDED  
**4 FEB 79**  
 GEOPHYSICAL SUPERVISOR  
**A.T. FRANCE**

PARTY NO. <b>6850</b>	CONTRACT <b>334</b>	TYPE CONTRACT <b>JOURNAL</b>	PARTY MANAGER <b>R.J. CLARK</b>	STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-53-8231</b>
PARTY ADDRESS <b>P.O. Box 1537 S.W.M.</b>			<b>CALGARY</b>	STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>456 9775</b>
PROSPECT NO.			CLIENT COMPANY <b>SUNDA</b>	CLIENT SUPERVISOR <b>ANDRE TREPARCER</b>	
PROSPECT NAME			COUNTY	STATE	

**RECORDING**     DYNAMITE     DINOSEIS     AIR-GUN    PERCENT COVERED  
 WEIGHT DROP     VIBROSEIS        **1200**

DAY	NO. OF MONTHS	NO. SHOTS/INPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER B. TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON								
TUE								
WED								
THU	1	240	35	7.47	100	2.0	100	WINDY EARLY - WINDY HIGH WINDS
FRI	2	0	0	0	0	0	0	OFF EARLY AND ON
SAT	3	285	50	11.45	85	2.0	100	WINDY EARLY
SUN	4	0	0	0	0	0	0	OFF
TOTALS	FOR WEEK	519	89	19.42	185	4.0	200	CONTRACT HOURS
	MONTH TO DATE	519	89	19.42	185	4.0	200	WAS WEEK    THIS WEEK    MONTH TO DATE

UNIT OR CONTRACTOR	OPERATOR	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS
		NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	MRS. CHOD CLIENT	NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	MRS. CHOD CLIENT	NO. HOLES	FOOTAGE DRILLED/ TRVRSZD	MRS. CHOD CLIENT	
117414	MADEAU	117415	117416	117417	117418	117419	11756				
WED											
THU	1	0			100			100		10.0	
FRI	2	0			0			0		0	
SAT	3	0			100			100		10.0	
SUN	4	0			0			0		0	
TOTALS	FOR WEEK	0			200			200		20.0	
	MONTH TO DATE	0			200			200		20.0	

RECORD RECORDER    RECORD FILTER    SPREAD DISTANCES    SOURCE ARRAY    GEOPH. NE ARRAY

**10**    **9-125**    **4455-6.0-0.660-4455**    **4750'**    **IN LINE 22**

TYPE GEOPHONE    GEO. FREQUENCY    DATE    SIGNATURE (P.C. OR P.M.)

**MINI HART**    **20 Hz**    **4 FEB 79**    **[Signature]**

WEEKLY ACTIVITY REPORT

# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED  
**11 FEB 79**

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>A. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A. J. FRANCE</b>	
SE MA TO	PARTY ADDRESS <b>P.O. BOX 1097 SYN "M"</b>		CITY <b>CALGARY</b>	STATE-ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>
	HOT SHOT ADDRESS <b>C.P. 9</b>		CITY <b>BENNIERES</b>	STATE-ZIP <b>QUEBEC</b>	TELEPHONE <b>456-9773</b>
PROSPECT NO.	CLIENT COMPANY <b>SOQUIP</b>			CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>	
PROSPECT NAME				COUNTY	STATE

RECORDING	<input type="checkbox"/> DYNAMITE	<input type="checkbox"/> DINOSEIS	<input type="checkbox"/> AIR-GUN	PERCENT COVERED <b>1200</b>
	<input type="checkbox"/> WEIGHT DROP	<input checked="" type="checkbox"/> VIBROSEIS		

	DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON	5	4852	68	9.056 Km	13.0	2.0	13.5	VIBS DOWN 1.5 HR. LN 78-835 VP 101 TO 333 E.O.L.
TU	6	3904	60	8.050 Km	11.5	2.0	12.5	VIB COMPRESSOR FROZE UP. LN 78-833 VP 101 TO 219 E.O.L.
WE	7	2496	31	4.092 Km	11.0	2.0	11.0	VIB DOWN 2 HRS. CHANGE 440' TO 1320' MPSS AT V.P. 109 LN 78-834 VP 101 TO 161
THU	8	2176	34	4.562 Km	10.0	2.5	12.5	CUT LINE OFF TO WAIT ON LINE REPAIR LN 78-834 VP 163 TO 229 VIBS UNABLE
FRI	9	0	0	0	0	10.0	10.0	VERY COLD (BENNIERES) MANY PROBLEMS. MOVE QUEBEC CITY TO ROQUEMONT
SAT	10	0	0	0	0	0	0	VERY COLD - CALLED OFF BECAUSE VIBS WONT START. WORKING ON VIBS ETC.
SUN	11	0	0	0	0	0	0	DAY OFF

TOTALS	FOR WEEK	12928	192.0	25.760	45.5	18.5	59.5	CONTRACT HOURS					
	MONTH TO DATE	18624	282.0	36.477	62.0	23.5	79.5	OVER	UNDER	OVER	UNDER	OVER	UNDER

UNITS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS
	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR			
	111414	111415	111418	111419	111756												
	MADEAU	JALBERT	COUCHER	KELLERMAN	GIBSON												
MON	5																
TUE	6																
WED	7																
THU	8																
FRI	9																
SAT	10																
SUN	11																
TOTALS	FOR WEEK																
	TH TO DATE																

FIELD RECORDER <b>MDS 10</b>	RECORD FILTER <b>9-125</b>	SPREAD DISTANCES <b>445-660-0-660-445 5500-440-0-440-5500</b>	SOURCE ARRAY <b>4x50'</b>	GEOPHONE ARRAY <b>IN LINE 22'</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10HZ</b>	DATE <b>11 FEB 78</b>	SIGNATURE (P.C. OR P.M.) <i>[Signature]</i>	



WEEKLY ACTIVITY REPORT

**Petty-Ray**

Petty-Ray Geophysical, Inc.

WEEK ENDED  
**18 FEB 79**

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>A. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A. J. FRANCE</b>	
PARTY ADDRESS <b>P.O. BOX 1087 STN 'M'</b>		CITY <b>CALGARY</b>		STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8222</b>
HOT SHOT ADDRESS <b>C.P. 490</b>		CITY <b>ROSEMONT</b>		STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>456-9773</b>
PROSPECT NO.		CLIENT COMPANY <b>SOQUIP</b>		CLIENT SUPERVISOR <b>ANDRE TREPANICA</b>	
PROSPECT NAME				COUNTY	STATE

RECORDING	<input type="checkbox"/> DYNAMITE	<input type="checkbox"/> DINOSEIS	<input type="checkbox"/> AIR-GUN	PERCENT COVERED <b>1200</b>
	<input type="checkbox"/> WEIGHT DROP	<input checked="" type="checkbox"/> VIBROSEIS		

DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.						
		NO.	SURFACE	OBSVD	TRVL	TOTAL							
MON 12	1984	31	4.159 Km	9.0	3.0	12.0	LN 78-834 V.P. 233(231) to 262 E.D.L. Lost .5 HR VIBS.						
TUE 13	3456	51	6.775 Km	12.0	2.0	13.5	LN 78-826 V.P. 101 to 201 VIBS 1.5 HRS						
WED 14	4160	65	8.721 Km	13.0	2.0	13.5	LN 78-826 V.P. 203 to 331 E.D.L.						
THU 15	0	0	0	8.0	1.5	0	LAI D OUT LINE - FOUND TAPE TRPT DOWN LN 78-827 PICKED UP & WENT HOME CREW SENT HOME AT 9 AM BACK 17th AT 9 AM.						
FRI 16	0	0	0	3.0	0	0	DAY OFF - VIBS DOWN						
SAT 17	3520	55	7.312 Km	11.0	1.0	10.5	LN 78-827 V.P. 109 to 217						
SUN 18	4416	69	9.258 Km	12.0	1.0	13.0	LN 78-827 V.P. 219 to 355						
TOTALS	FOR WEEK	17576	271	36,225 Km	68.0	10.5	62.5	CONTRACT HOURS					
	MONTH TO DATE	36160	553	72,709 Km	130.0	33.0	142.0	OVER	UNDER	OVER	UNDER	OVER	UNDER

UNITS	UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				UNIT OR CONTRACTOR				REMARKS				
	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR	OPERATOR							
	111414				111415				111418				111419				111756				
	NADÉAU				JALBERT				BOUCHER				KELLEMAN				GIBSON				
	DAY OF MONTH	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSD	HRS. CHGD CLIENT		
MON	12			0			12.0			12.0			12.0			12.0			12.0	10414 ENGINE OIL	
TUE	13			0			14.0			14.0			14.0			14.0			14.0		
WED	14			0			15.0			15.0			13.5			15.0			15.0	111419 CHG. SYSTEM	
THU	15			0			9.5			9.5			9.5			9.5			9.5		
FRI	16			0			0			0			0			0			0		
SAT	17			0			12.0			12.0			10.5			12.0			12.0	111419 CHG. SYSTEM	
SUN	18			0			13.0			13.0			13.0			13.0			13.0		
TOTALS	FOR WEEK			0			75.5			75.5			72.5			75.5			75.5		
	MONTH TO DATE			0			138.0			138.0			154.5			157.5			157.5		

FIELD RECORDER <b>M.D.S 10</b>	RECORD FILTER <b>9-125</b>	SPREAD DISTANCES <b>5500 - 440 - 0 - 440 - 5500</b>	SOURCE ARRAY <b>4x50'</b>	GEOPHONE ARRAY <b>INLINE 221</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>18 FEB 79</b>	SIGNATURE (P.C. OR P.M.) <i>[Signature]</i>	

WEEKLY ACTIVITY REPORT

**Petty-Ray**  
Petty-Ray Geophysical, Inc.

WEEK ENDED  
**25 FEB 79**

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A. J. FRANCE</b>	
PARTY ADDRESS <b>P.O. Box 1087 STN. "A"</b>		CITY <b>CALGARY</b>		STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>
HOT SHOT ADDRESS <b>C.P. 490</b>		CITY <b>ROUGE MONT</b>		STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>456-9773</b>
PROSPECT NO.		CLIENT COMPANY <b>SOQUIP</b>		CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>	
PROSPECT NAME				COUNTY	STATE

**RECORDING**     DYNAMITE     DINOSEIB     AIR-GUN    PERCENT COVERED  
 WEIGHT DROP     VIBROSEIS     \_\_\_\_\_    **12.00**

	DAY OF MONTH	NO. SHOTS/INPL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD, PARTY BASE MOVED, WHERE, MILEAGE, ETC.
			NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON	19	3328	52	6.910 Km	12.0	1.0	12.5	LN 78-827 VP 357 TO 398 EOL
TUE	20	3536	51	6.843 Km	12.0	1.0	10.5	LN 78-831 VP 101 TO 165 APPROX 25 mi LN CHANGE VIB DOWN 1.5 USED 2 VIBS 24 SWP FOR 4 HRS.
WED	21	2496	39	5.233 Km	7.5	1.0	8.5	LN 78-831 VP 167 TO 259 (260) - 1 HR FOR EXTRA SWP TOO LATE TO START ANOTHER LINE
THU	22	4224	66	8.788 Km	12.0	1.0	13.0	LN 78-830 VP 101 (91) TO 221 E.O.L.
FRI	23	3648	57	7.513 Km	11.5	1.0	12.5	LN 78-829 VP 101 TO 189 E.O.L.
SAT	24	2560	40	5.300 Km	10.5	1.0	10.5	LN 78-828 VP 101 TO 123 SHUT DOWN - RAIN VIBS. 45 MIN JUG TRUCK 15 MIN.
SUN	25	0	0	0	0	0	0	DAY OFF

TOTALS	FOR WEEK	19792	305	40.587 Km	65.5	6.0	67.5	CONTRACT HOURS					
	MONTH TO DATE	55952	858	113.289 Km	195.5	39.0	209.5	OVER	UNDER	OVER	UNDER	OVER	UNDER

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS
	NO.	FOOTAGE DRILLED/ TRVRS	HRS. CHOD CLIENT	NO.	FOOTAGE DRILLED/ TRVRS	HRS. CHOD CLIENT	NO.	FOOTAGE DRILLED/ TRVRS	HRS. CHOD CLIENT	NO.	FOOTAGE DRILLED/ TRVRS	HRS. CHOD CLIENT	NO.	FOOTAGE DRILLED/ TRVRS	HRS. CHOD CLIENT	
	111414			111415			111418			111419			111756			
	OPERATOR NADEAU			OPERATOR JALBERT			OPERATOR BOUCHER			OPERATOR KELLERMAN			OPERATOR GIBSON			
MON	19		0			13.0			13.0			13.0			13.0	
TUE	20		0			13.0			13.0			13.0			13.0	7.0
WED	21		8.0			8.0			8.0			0			8.0	8.0
THU	22		13.0			13.0			13.0			0			13.0	
FRI	23		12.5			12.5			12.5			0			12.5	
SAT	24		11.5			11.5			0			11.5			11.5	
SUN	25		0			0			0			0			0	
TOTALS	FOR WEEK		45.0			71.0			59.5			37.5			65.0	
	MONTH TO DATE		45.0			297.0			216.0			192.0			222.5	

111756 HYDRAULIC PROBLEMS RECURRING 111414 BACK IN THE FOLD 20TH P.M.

FIELD RECORDER <b>MDS 10</b>	RECORD FILTER <b>9-125</b>	SPREAD DISTANCES <b>5860-880-0-880-5860</b>	SOURCE ARRAY <b>4 @ 50'</b>	GEOPHONE ARRAY <b>IN LINE 22'</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>25 FEB 79</b>	SIGNATURE (P.C. OR P.M.) <i>R. J. Clark</i>	



WEEKLY ACTIVITY REPORT

# Petty-Ray

Petty-Ray Geophysical, Inc.

WEEK ENDED  
**28 FEB 79**  
 GEOPHYSICAL SUPERVISOR  
**A. J. FRANCE**

PARTY NO. <b>6850</b>	CONTRACT <b>834</b>	TYPE CONTRACT <b>HOURLY</b>	PARTY MANAGER <b>R. J. CLARK</b>	GEOPHYSICAL SUPERVISOR <b>A. J. FRANCE</b>	
PARTY ADDRESS <b>P.O. BOX 1087 STN "M"</b>		CITY <b>CALGARY</b>	STATE - ZIP <b>ALBERTA</b>	TELEPHONE <b>403-253-8281</b>	
HOT SHOT ADDRESS <b>C. P. 490</b>		CITY <b>ROQUEMONT</b>	STATE - ZIP <b>QUEBEC</b>	TELEPHONE <b>514-469-9146</b>	
PROSPECT NO.		CLIENT COMPANY <b>SOQUIP</b>	CLIENT SUPERVISOR <b>ANDRE TREPANIER</b>		
PROSPECT NAME			COUNTY	STATE	

**RECORDING**     DYNAMITE     DINOSEIS     AIR-GUN    PERCENT COVERED  
 WEIGHT DROP     VIBROSEIS     \_\_\_\_\_    **1200**

DAY OF MONTH	NO. SHOTS/IMPUL	PROFILE MILES		HOURS CHARGED			EXPLAIN IF CREW DID NOT WORK A FULL DAY, WORKED OVERTIME OR NOT AT ALL. WEATHER & TERRAIN CONDITIONS, IF EXCESSIVE DISTANCE TO FIELD PARTY BASE MOVED, WHERE, MILEAGE, ETC.
		NO.	SURFACE	OBSVD	TRVL	TOTAL	
MON 26	1024	16	2.147 Km	6.0	1.0	7.0	SHUT DOWN 2 P.M. SNOWSTORM LN 78-828 VP. 125 TO 143 (155)
TUE 27	4352	68	9.123 Km	11.5	1.0	12.5	LN 78-828 VP. 165 (157) TO 291 E.O.L.
WED 28	4608	72	9.660 Km	15.0	1.0 1.5	16.0 16.5	STANICH CITY - LOTS OF CABLE & GEOPHONES W/ACKED LN 78-832 VP. 181 TO 323 E.O.L.
THU							END OF CONTRACT - PACK
FRI							UP AND HEAD WEST.
SAT							
SUN							

TOTALS	CONTRACT HOURS						
	FOR WEEK						
	MONTH TO DATE	OVER	UNDER	OVER	UNDER	OVER	UNDER
	9984	156.0	20.930 Km	38.5	3.5	36.0	
	15936	1014	134.219 Km	229.0	42.5	245.5	

UNITS	UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			UNIT OR CONTRACTOR			REMARKS			
	111414			111415			111418			111419				111756		
	NADEAU			JALBERT			BOUCHER			KELLEYMAN				GIBSON		
DAY OF MONTH	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	NO. HOLES IMPL	FOOTAGE DRILLED/ TRVRSB	HRS. CHGD CLIENT	
MON 26			7.0			7.0			7.0			7.0				
TUE 27			12.5			12.5			12.5			12.5			12.5	
WED 28			16.5			16.5			16.5			16.5			16.5	
THU																
FRI																
SAT																
SUN																
TOTALS	FOR WEEK		36.0			23.5			19.5			36.0			19.0	
	MONTH TO DATE		81.0			250.5			235.5			228.0			251.5	

FIELD RECORDER <b>MDS 10</b>	RECORD FILTER <b>9-125</b>	SPREAD DISTANCES <b>5260-880-0-880-5260</b>	SOURCE ARRAY <b>4 @ 50'</b>	GEOPHONE ARRAY <b>INLINE 22'</b>
TYPE GEOPHONE <b>MIN MAX</b>	GEO. FREQUENCY <b>10 HZ</b>	DATE <b>28 FEB 79</b>	SIGNATURE (P.C. OR P.M.) <i>R.J. Clark</i>	

**RAPPORT HEBDOMADAIRE  
DES FRAIS DE SEJOUR DE L'ENTREPRENEUR**



Division  
GEOSOURCE INC.

GEOSOURCE

850

AUG. 7, 1978

CLIENT REIMBURSABLE - R  
CREW EXPENSE - E

R

6850

834

LA	DATE																					TOTAL NO. OF DAYS	DAILY ALLOWANCE RATE	TOTAL ALLOWANCE		CHECK NUMBER	CHECK AMOUNT	EMPLOYEE PAYROLL NUMBER	EMPLOYEE NAME
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			LIVING	HOT/SHOT				
LA	T	W	T	S	S																			22.00	024674	132.00	780634	Jean Paul Gilbert	
LA																								2.00	024675	88.00	N/A	Normand Jalbert	
LA																								22.00	024676	66.00	N/A	Rene Lesieur	
LA																								22.00	024677	66.00	N/A	Yves Gelinas	
LA																								22.00	024678	132.00	N/A	Michael Greenbank	
LA																								22.00	024679	132.00	N/A	Gisèle Perrault	
LA																								22.00	024680	66.00	N/A	Francine Desharnais	
LA																								22.00	024682	132.00	N/A	Luc Laurion	
												<b>TOTALS</b>		814.00															

FIELD COPY

GEOPHYSICAL SUPERVISOR









# Petroleum Roy

AN OPERATING UNIT OF GEOPHYSICAL INTERNATIONAL INCORPORATED

FWF NO. 850

CHECK DATE Aug 14, 1978

CLIENT REIMBURSABLE = R }  
C EXPENSE = E }

E

CREW NO. 6850

CON

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL NO. OF DAYS	DAILY ALLOWANCE RATE	TOTAL ALLOWANCE		CHECK NUMBER	CHECK AMOUNT	EMPLOYEE PAYROLL NUMBER	EMPLOYEE NAME			
																		LIVING	HOT SHOT							
											S	S														
LA											X	X				2	22.00		22.00		44.00	780309	Gilbert Desharnais			
LA											X	X				2	22.00		22.00		44.00	682107	Rodney Johnston			
HS											X	X				2	22.00		22.00		44.00	771312	Larry McGill			
LA											X	X				2	22.00		22.00		44.00	772097	Neil Barr			
LA											X	X				2	22.00		22.00		44.00	N/A	Andre Asselin			
HS											X	X				2	22.00		22.00		44.00	761674	James Kellerman			
LA											X	X				2	22.00		22.00		44.00	760364	Michael Marchant			
LA											X	X				2	22.00		22.00		44.00	780125	Robert Gibson			
HS											X	X				2	22.00		22.00		44.00	772099	Brent Gunderson			
LA											X	X				2	22.00		22.00		44.00	761571	Michel Viens			
LA											X	X				2	22.00		22.00		44.00	780634	Jean-Paul Gilbert			
LA											X	X				2	22.00		22.00		44.00	N/A	Normand Jalbert			
HS											X	X				2	22.00		22.00		44.00	N/A	Rene Lesieur			
LA											X	X				2	22.00		22.00		44.00	N/A	Yves Galinas			
LA											X	X				2	22.00		22.00		44.00	N/A	Michael Greenbank			
HS											X	X				2	22.00		22.00		44.00	N/A	Francine Desharnais			
LA											X	X				2	22.00		22.00		44.00	N/A	Camil Henri			
LA											X	X				2	22.00		22.00		44.00	N/A	Francine Richard			
HS											X	X				2	22.00		22.00		44.00	N/A	Luc J. Bergeron			
LA											X	X				2	22.00		22.00		44.00	N/A	Annette Larocche			
																					TOTALS					

MOORE PAPER FORMS 226-9161



















LA	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL NO. OF DAYS	DAILY ALLOWANCE RATE	TOTAL ALLOWANCE		CHECK NUMBER	CHECK AMOUNT	EMPLOYEE PAYROLL NUMBER	EMPLOYEE NAME
																			LIVING	HOT-SHOT				
	X	X	X										X	X	X	X	7	22.00		22.00	025739	154.00	771521	Robert J. Clark
			X										X	X	X	X	5	22.00		22.00	025740	110.00	772533	Valerie MacKay
			X										X	X	X	X	5	22.00		22.00	025741	110.00	781819	Jocelyne Leroux
	X	X	X										X	X	X	X	7	22.00		22.00	025742	154.00	671764	Garry Johnston
	X	X	X										X	X	X	X	7	22.00		22.00	025743	154.00	780309	Gilbert Desharnais
	X	X	X										X	X	X	X	7	22.00		22.00	025744	154.00	771223	Michel Mercier
	X	X	X										X	X	X	X	7	22.00		22.00	025745	154.00	682107	Rodney Johnston
	X		X										X	X	X	X	6	22.00		22.00	025746	132.00	771312	Larry McGill
		X	X										X	X	X	X	7	22.00		22.00	025747	154.00	772097	Neil Barr
	X	X	X										X	X	X	X	7	22.00		22.00	025748	154.00	781806	Andre Asselin
	X	X	X										X	X	X	X	7	22.00		22.00	025749	154.00	751267	Paul Sherbanik
	X	X	X										X	X	X	X	7	22.00		22.00	025750	154.00	761674	James Kellerman
	X	X	X										X	X	X	X	7	22.00		22.00	025751	154.00	760364	Michael Marchant
	X	X	X										X	X	X	X	7	22.00		22.00	025752	154.00	780125	Robert Gibson
	X	X	X										X	X	X	X	7	22.00		22.00	025753	154.00	772099	Brent Gunderson
	X		X										X	X	X	X	6	22.00		22.00	025754	132.00	761571	Michel Viens
	X	X	X										X	X	X	X	7	22.00		22.00	025755	154.00	780634	Jean-Paul Gilbert
	X	X	X										X	X	X	X	7	22.00		22.00	025756	154.00	781809	Luc Laurion

TOTALS

GEOPHYSICAL SUPERVISOR APPROVAL:

*[Signature]*

















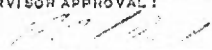
FWF NO.  
850

CHECK DATE  
Sept. 25, 78

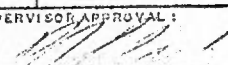
CLIENT REIM SA = R }  
CREW EXPENSE = E }  R

CREW NO.  
6850

TRACT #  
834

DATE	TIME	NO. OF DAYS	DAILY ALLOWANCE RATE	TOTAL ALLOWANCE		CHECK NUMBER	CHECK AMOUNT	EMPLOYEE PAYROLL NUMBER	EMPLOYEE NAME	
				LIVING	HOT-SHOT					
			22.00		22.00	026573	44.00	771521	Robert J. Clark	
			22.00		22.00	026574	44.00	772533	Valerie MacKay	
			22.00		22.00	026575	44.00	781819	Jocelyne Leroux	
			22.00		22.00	026576	44.00	671764	Garry Johnston	
			22.00		22.00	026577	44.00	682107	Rodney Johnston	
			22.00		22.00	026578	44.00	780309	Gilbert Desharnais	
			22.00		22.00	026579	44.00	771223	Michel Mercier	
			22.00		22.00	026580	44.00	772097	Neil Barr	
			22.00		22.00	026581	44.00	781006	Andre Asselin	
			22.00		22.00	026582	44.00	761614	James Kellerman	
			22.00		22.00	026583	44.00	780125	Robert Gibson	
			22.00		22.00	026584	44.00	7720999	Brent Gunderson	
			22.00		22.00	026585	44.00	780634	Jean-Paul Gilbert	
			22.00		22.00	026586	44.00	781809	Luc Laurion	
			22.00		22.00	026587	44.00	781810	Normand Jalbert	
						TOTALS		660.00	GEOPHYSICAL SUPERVISOR APPROVAL: 	



DATE	TIME	TOTAL NO. OF DAYS	DAILY ALLOWANCE RATE	TOTAL ALLOWANCE		CHECK NUMBER	CHECK AMOUNT	EMPLOYEE PAYROLL NUMBER	EMPLOYEE NAME
				LIVING	HOT-SHOT				
		2	22.00		22.00	026588	22.00	781808	Rene Lesieur
		2	22.00		22.00	026589	44.00	781811	Yves Gelin
		2	22.00		22.00	026590	44.00	781808	Francine Desharnais
		2	22.00		22.00	026591	44.00	781818	Camil Henri
		2	22.00		22.00	026592	44.00	781850	Francine Richard
		2	22.00		22.00	026593	44.00	781847	Annette Laroche
		2	22.00		22.00	026594	44.00	N/A	Serge Ferland
		2	22.00		22.00	026595	44.00	N/A	Serge DeMontigny
		2	22.00		22.00	026597	44.00	N/A	Guy Gelin
		2	22.00		22.00	026598	44.00	781008	Gisele Perrault
		2	22.00		22.00	026599	44.00	781950	Jean-Pierre Martel
<b>&lt; TOTALS &gt;</b>							484.00	GEOPHYSICAL SUPERVISOR APPROVAL: 	





# Petty-Ray

INTERNATIONAL UNIT OF CEDSOURCE INTERNATIONAL INCORPORATED

FWF NO.

850

CHECK DATE

Oct. 2 -78

CLIENT REIMB  
CREW EXPENS.

AT = R }  
= E }

R

CREW NO.

6850

CONTRACT #

DATE	DAY	TOTAL NO. OF DAYS	DAILY ALLOWANCE RATE	TOTAL ALLOWANCE		CHECK NUMBER	CHECK AMOUNT	EMPLOYEE PAYROLL NUMBER	EMPLOYEE NAME
				LIVING	HOT-SHOT				
		1	22.00		22.00	026641	22.00	771521	Robert J. Clark
		1	22.00		22.00	026642	22.00	781819	Jocelyne Leroux
		1	22.00		22.00	026643	22.00	671764	Garry Johnston
		1	22.00		22.00	026644	22.00	682107	Rodney Johnston
		1	22.00		22.00	026645	22.00	780309	Gilbert Desharnais
		1	22.00		22.00	026646	22.00	771223	Michel Mercier
		1	22.00		22.00	026647	22.00	772097	Neil Barr
		1	22.00		22.00	026648	22.00	781006	Andre Asselin
		1	22.00		22.00	026649	22.00	771312	Larry McGill
		1	22.00		22.00	026650	22.00	761614	James Kellerman
		1	22.00		22.00	026651	22.00	770108	Michael Marchant
		1	22.00		22.00	026652	22.00	780125	Robert Gibson
		1	22.00		22.00	026653	22.00	772099	Brent Gunderson
		1	22.00		22.00	026654	22.00	780634	Jean-Paul Gilbert
		1	22.00		22.00	026655	22.00	781809	Luc Laurion
		1	22.00		22.00	026656	22.00	781810	Normand Jalbert
						< TOTALS >	752.00	GEOPHYSICAL SUPERVISOR APPROVAL :	

















1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL NO. OF DAYS	DAILY ALLOWANCE RATE	TOTAL ALLOWANCE		CHECK NUMBER	CHECK AMOUNT	EMPLOYEE PAYROLL NUMBER	EMPLOYEE NAME	
																	LIVING	HOT-SHOT					
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	DAY OF WEEK							
			X	X	X	X	X	X							7	22.00	154.00	030265	154.00	771521	Robert J. Clark		
			X	X	X	X	X	X							7	22.00	154.00	030266	154.00	781819	Jocelyne Leroux		
			X	X	X	X	X	X							7	22.00	154.00	030267	154.00	671774	Garry Johnston		
			X	X	X	X	X	X							7	22.00	154.00	030268	154.00	682107	Rodney Johnston		
			X	X	X	X	X	X							7	22.00	154.00	030269	154.00	610629	Karl Thiel		
			X	X	X	X	X	X							7	22.00	154.00	030270	154.00	781196	Michel Mercier		
			X	X	X	X	X	X							7	22.00	154.00	030271	154.00	781809	Luc Laurion		
			X	X	X	X	X	X							7	22.00	154.00	030272	154.00	771312	Larry McGill		
			X	X	X	X	X	X							7	22.00	154.00	030273	154.00	781806	Andre Asselin		
			X	X	X	X	X	X							7	22.00	154.00	030274	154.00	781808	Normand Jalbert		
			X	X	X	X	X	X							7	22.00	154.00	030275	154.00	780634	Jean-Paul Gilbert		
			X	X	X	X	X	X							7	22.00	154.00	030276	154.00	761674	James Kellerman		
			X	X	X	X	X	X							7	22.00	154.00	030277	154.00	770108	Michael Marchant		
			X	X	X	X	X	X							7	22.00	154.00	030278	154.00	780125	Robert Gibson		
			X	X	X	X	X	X							7	22.00	154.00	030279	154.00	772097	Neil Barr		
			X	X	X	X	X	X							7	22.00	154.00	030280	154.00	782524	Pierre Nadeau		
			X	X	X	X	X	X							7	22.00	154.00	030281	154.00	761571	Michel Viens		
			X	X	X	X	X	X							7	22.00	154.00	030282	154.00	752-67	Paul Sherbaniuk		
			X	X	X	X	X	X							6	22.00	132.00	030283	132.00	780309	Gilbert Desharnais		
																	TOTALS		2,904.00	GEOPHYSICAL SUPERVISOR APPROVAL: <i>[Signature]</i>			











































Exploration Services  
Division  
GEOSOURCE INC.

FWF NO.  
850

CHECK DATE  
Feb. 5 - 79

CLIENT REIMBURSABLE = R  
CNEY EXP = E }  R

CREW NO.  
6850

CONTRACT #  
834

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL NO. OF DAYS	ALLOWANCE RATE	TOTAL ALLOWANCE		CHECK NUMBER	CHECK AMOUNT	EMPLOYEE PAYROLL NUMBER	EMPLOYEE NAME	
																	LIVING	NOT LIVING					
T	F	S	S																				
																22.00		88.00	031904	88.00	771521	Robert J. Clark	
																22.00		154.00	031905	154.00	781819	Jocelyne Leroux	
																22.00		154.00	031906	154.00	671774	Garry Johnston	
																22.00		154.00	031907	154.00	682107	Rodney Johnston	
																22.00		154.00	031908	154.00	610629	Karl Thiel	
																22.00		154.00	031909	154.00	781196	Michel Mercier	
																22.00		154.00	031910	154.00	771312	Larry McGill	
																22.00		132.00	031911	132.00	781806	Andre Asselin	
																22.00		132.00	031912	132.00	780634	Jean - Paul Gilbert	
																22.00		154.00	031913	154.00	761674	James Kellerman	
																22.00		154.00	031914	154.00	780125	Robert Gibson	
																22.00		154.00	031915	154.00	782524	Pierre Nadeau	
																22.00		132.00	031916	132.00	N/A	Jean Boucher	
																22.00		132.00	031917	132.00	81810	Normand Jalbert	
																22.00		154.00	031918	154.00	761571	Michel Viens	
																22.00		154.00	031919	154.00	752267	Paul Sherbaniuk	
																22.00		132.00	031920	132.00	781850	Francine Richard	
																22.00		88.00	031921	88.00	781811	Yves Gelinas	
																22.00		88.00	031922	88.00	781808	Rene Lesieur	
																		TOTALS		2,618.00	GEOPHYSICAL SUPERVISOR APPROVAL		



























**RAPPORT HEBDOMADAIRE  
DU PERSONNEL REQUIS**

WEEKLY PERSONNEL REPORT

CREW 6850 CONTRACT 834 DATE August 14, 1978  
 LOCATION Tris Rivieres, Quebec CLIENT Soquip

VG - Very Good

AVG - Average

P - Poor

	POSITION	NAME	EMP #	VEHICLE CARE	SAFETY HABITS	WORK HABITS	JOB INTEREST	CURRENT WAGE RATE	PROMOTABLE POSITION
1.	Party Manager	Allan J. France	600454						
	Field Clerk	Valerie Mac Kay	772533						
	Observer	Garry Johnston	671764						
4.	Jr./Asst. Observer	Gilbert Desharnais	780309						
5.	Surveyor	Karl Thiel	610629						
6.	Jr. Surveyor	Michel Mercier	771223						
7.	Survey Helper	Luc Laurion	N/A						
8.	Survey Helper	Gisele Perrault	N/A					3.30	
9	Mechanic	Rodney Johnston	682107						
10	1st Cable Truck	Larry McGill	771312						
11.	2nd Cable Truck	Neil Barr	772097						
12.	3rd Cable Truck	Andre Asselin	N/A						
13.	Cable Repair	Paul Sherbaniuk	752267						
14.	Rec. Helper	Jean Paul Gilbert	780634						
15.	Rec. Helper	Normand Jalbert	N/A					3.40	
16.	Rec. Helper	Rene Lesieur	N/A					3.40	
17.	Rec. Helper	Yves Gelinis	N/A					3.40	
18.	Rec. Helper	Micheal Greenbank	N/A					3.30	
19.	Rec. Helper	Camil Henri	N/A					3.30	
20.	Rec. Helper	Luc Bergerin	N/A					3.30	
21.	Rec. Helper	Francine Desharnais	N/A					3.30	
22.	Rec. Helper	Francine Richard	N/A					3.30	
23.	Rec. Helper	Annette Larroche	N/A					3.30	
24.	Vib. Driver	James Kellerman	761674						
25.	Vib. Driver	Michael Marchant	760364						
26.	Vib. Driver	Robert Gibson	780125						
27.	Vib. Driver	Brent Gunderson	772099						
28.	Jr. Mech.	Michel Viens	761571						
29.	Tr. Field Clerk	Jocelyne Leroux	N/A						
30.									

COMMENTS:

FORM WPK0016

Party Manager's Signature: \_\_\_\_\_

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_ DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.



CREW 6850 CONTRACT 334 DAY

LOCATION Trois-Rivieres, Quebec

VG - Vary Good

AVG - Average

	POSITION	NAME	EMP #
1.	Party Manager	Robert J. Clark	771521
2.	Field Clerk	Valaria McKay	772593
	Observer	Garry Johnston	671764
4	Jr./Asst. Observer Sub. Contract	Gilbert Desharnais	780309
5.	Surveyor	Michael C. Hughes	
6.	Jr. Surveyor	Michel Mercier	771223
7.	Survey Helper	Luc Laurion	N/A
8.	Survey Helper	Gisele Perrault	N/A
9.	Mechanic	Rodney Johnston	682107
1	1st Cable Truck	Larry McGill	771312
11	2nd Cable Truck	Neil Barr	772097
12.	3rd Cable Truck	Andre Asselin	N/A
13.	Cable Repair	Paul Sherbankuk	752267
14.	Rec. Helper	Jean-Paul Gilbert	780634
15.	Rec. Helper	Normand Jalbert	N/A
16.	Rec. Helper	Rena Lesieur	N/A
17.	Rec. Helper	Yves Gelinis	N/A
18.	Rec. Helper	Michael Greenbank	N/A
19.	Rec. Helper	Camil Henri	N/A
20.	Rec. Helper	Francine Desharnais	N/A
21.	Rec. Helper	Francine Richard	N/A
22.	Rec. Helper	Annette Laroche	N/A
23.	Rec. Helper	Serge Ferland	N/A
24.	Survey Helper	Jean-Pierre Martel	N/A
25.	Vib. Driver	James Kellerman	761674
26.	Vib. Driver	Michael Marchant	760364
27.	Vib. Driver	Robert Gibson	780125
28	Vib. Driver	Brent Gunderson	772099
29.	Jr. Mech.	Michel Viens	761571
30.	Jr. Field Clerk	Jocelyne Leroux	N/A

COMMENTS:

FORM WPP0501B

Party

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_

The above personnel are your basic crew contract req personnel without prior authorization from your cre

LOCATION Trois-Rivieres, Quebec. CLIENT D.G.Z.

	VG - Very Good	AVG - Average	P - Poor	PROMOTABLE POSITION
	POSITION	NAME		
1.	Party Manager	Robert J. Clark		
2.	Field Clerk	Valeria MacKay		
3.	Observer	Garry Johnston		
4.	Jr./Asst. Observer	Gilbert Desharnais		
5.	Surveyor	Michael C. Hughes		
6.	Jr. Surveyor	Michel Marcier		
7.	Survey Helper	Luc Laurion		
8.	Survey Helper	Gisele Perrault		
9.	Mechanic	Rodney Johnston		
10.	1st Cable Truck	Larry McGill		
11.	2nd Cable Truck	Normand Jalbert		
12.	3rd Cable Truck	Andre Asselin		
13.	Cable Repair	Jacelyne Theroux		
14.	Rec. Helper	Jean-Paul Gilbert		
15.	Rec. Helper	Rene Lesieur		
16.	Rec. Helper	Yves Gelinas		
17.	Rec. Helper	Camil Henri		
18.	Rec. Helper	Francine Desharnais		
19.	Rec. Helper	Francine Richard		
20.	Rec. Helper	Annette Laroche		
21.	Rec. Helper	Serge Ferland		
22.	Rec. Helper	Serge DeMontigny		
23.	Rec. Helper	Guy Gelinas		
24.	Sur. Helper	Jean-Pierre Martel		
25.	Vib. Driver	James Kellerman		
26.	Vib. Driver	Michael Marchant		
27.	Vib. Driver	Robert Gibson		
28.	Vib. Driver	Brent Gunderson		
29.	Sr. Mech	Alfred Sandick		
30.	Vib. Driver	Neil Barr		

COMMENTS:

DATE PERMITTED AUTHORIZED BY \_\_\_\_\_ Party Manager's Signature: *[Signature]* DATE Sept 16 1978

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.


WEEKLY PERSONNEL REPORT

CREW 6850 CONTRACT 834 DATE November 27, 1978  
 LOCATION Bernieres, Quebec. CLIENT "Sodup"

	VG - Vary Good	AVG - Average	P - Poor						
	POSITION	NAME	EMP #	VEHICLE CARE	SAFETY HABITS	WORK HABITS	JOB INTEREST	CURRENT WAGE RATE	PROMOTABLE POSITION
1.	Party Manager	Robert J. Clark	771521						
2.	Field Clerk	Jocelyne Leroux	781819						
	Observer	Garry Johnston	671774						
4.	Jr./Asst. Observer	Gilbert Desharnais	780309						
5.	Surveyor	Karl Thiel	610629						
6.	Jr. Surveyor	Michel Mercier	781196						
7.	Survey Helper	Luc Laurion	781809						
8.	Survey Helper	Gisele Perrault	781807						
9.	Mechanic	Rodney Johnston	682107						
10.	1st Cable Truck	Larry McGill	771312						
11.	2nd Cable Truck	Andre Asselin	781806						
12.	3rd Cable Truck	Normand Jalbert	781810						
13.	Cable Repair	Paul Sherbaniuk	752267						
14.	Rec. Helper	Jean - Paul Gilbert	780634						
15.	Rec. Helper	Rene Lesieur	781808						
16.	Rec. Helper	Yves Gelinias	781811						
17.	Rec. Helper	Camil Henri	781818						
18.	Rec. Helper	Francine Desharnais	781805						
19.	Rec. Helper	Francine Richard	781850						
	Rec. Helper	Annette Laroche	781847						
	Rec. Helper	Serge Ferland	781995						
22.	Rec. Helper	Serge DeMontigny	782169						
23.	Rec. Helper	Guy Gelinias	782170						
24.	Sur. Helper	Jean-Pierre Martel	781950						
25.	Vib. Driver	James Kellerman	761674						
26.	Vib. Driver	Michael Marchant	770108						
27.	Vib. Driver	Robert Gibson	780125						
	Vib. Driver	Neil Barr	772097						
29.	Vib. Driver	Pierre Nadeau	782524						
30.	Mech.	Michel Viens	761571						

COMMENTS:

FORM WPR05018

Party Manager's Signature: 

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_

DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.

**PERSONNEL REPORT**

CREW 6850 CONTRACT 834 DATE December 04, 1978

LOCATION St - Alexandre, Cte Kamouraska, Quebec. CLIENT " Soquip "

VG - Very Good                      AVG - Average                      P - Poor

	POSITION	NAME	EMP #
1.	Party Manager	Robert J. Clark	771521
2.	Field Clerk	Jocelyne Leroux	781819
3.	Observer	Garry Johnston	671774
4.	Jr./Asst. Observer	Gilbert Desharnais	780309
5.	Surveyor	Karl Thiel	610629
6.	Jr. Surveyor	Michel Mercier	781196
7.	Survey Helper	Luc Laurion	781809
8.	Survey Helper	Gisele Perrault	781807
9.	Mechanic	Rodney Johnston	682107
10.	1st Cable Truck	Larry McGill	771312
11.	2nd Cable Truck	Andre Asselin	781806
12.	3rd Cable Truck	Normand Jalbert	781810
13.	Cable Repair	Paul Sherbanuk	752267
14.	Rec. Helper	Jean - Paul Gilbert	780634
15.	Rec. Helper	Rene Lesieur	781808
16.	Rec. Helper	Yves Gelinas	781811
17.	Rec. Helper	Camil Henri	781818
18.	Rec. Helper	Francine Desharnais	781805
19.	Rec. Helper	Annette Laroche	781847
	Rec. Helper	Francine Richard	781850
	Rec. Helper	Serge Ferland	781995
22.	Rec. Helper	Serge DeMontigny	782169
23.	Rec. Helper	Guy Gelinas	782170
24.	Sur, Helper	Jean-Pierre Martel	781950
25.	Vib. Driver	James Kellerman	761674
26.	Vib. Driver	Michael Marchant	770108
27.	Vib. Driver	Robert Gibson	780125
	Vib. Driver	Neil Barr	772097
29.	Vib. Driver	Pierre Nadeau	782524
30.	Mech.	Michel Viens	761571

COMMENTS: Observer Rick Calvert } STAFFED ON CREW  
 Party Manager (Tr.) Robert Dutchak }

FORM W-PRO5018 Party Manager's Signature: [Signature]  
 EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_ DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.



# WEEKLY PERSONNEL REPORT

CREW 6850 CONTRACT 834 DATE December 11, 1978

LOCATION Bernieres, Quebec. CLIENT " Soucip "

VG - Very Good

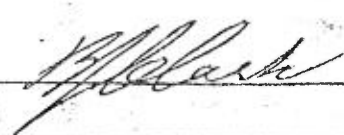
AVG - Average

P - Poor

	POSITION	NAME	EMP #	VEHICLE CARE	SAFETY HABITS	WORK HABITS	JOB INTEREST	CURRENT WAGE RATE	PROMOTABLE POSITION
1.	Party Manager	Robert J. Clark	771521						
	Field Clerk	Jocelyne Leroux	781819						
3.	Observer	Garry Johnston	671774						
4.	Jr./Asst. Observer	Gilbert Desharnais	780309						
5.	Surveyor	Karl Thiel	610629						
6.	Jr. Surveyor	Michel Mercier	781196						
7.	Survey Helper	Luc Laurion	781809						
8.	Survey Helper	Gisele Perrault	781807						
	Mechanic	Rodney Johnston	682107						
10.	1st Cable Truck	Larry McGill	771312						
11.	2nd Cable Truck	Andre Asselin	781806						
12.	3rd Cable Truck	Normand Jalbert	781810						
13.	Cable Repair	Paul Sherbaniuk	752267						
14.	Rec. Helper	Jean - Paul Gilbert	780634						
15.	Rec. Helper	Rene Lesieur	781808						
16.	Rec. Helper	Yves Gelin	781811						
17.	Rec. Helper	Camil Henri	781818						
18.	Rec. Helper	Francine Desharnais	781805						
19.	Rec. Helper	Francine Richard	781850						
20.	Rec. Helper	Annette Laroche	781847						
21.	Rec. Helper	Serge Ferland	781995						
22.	Rec. Helper	Serge DeMontigny	782169						
23.	Rec. Helper	Guy Gelin	781995						
24.	Sur. Helper	Jean-Pierre Martel	781950						
25.	Vib. Driver	James Kellerman	761674						
26.	Vib. Driver	Michael Marchant	770108						
27.	Vib. Driver	Robert Gibson	780125						
28.	Vib. Driver	Neil Barr	772097						
29.	Vib. Driver	Pierre Nadeau	782524						
30.	Mech.	Michel Viens	761571						

COMMENTS: Tr. Party Manager : Robert Dutchak

FORM WPRO5018

Party Manager's Signature: 

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_

DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional

WEEKLY PERSONNEL REPORT

CREW 6850 CONTRACT 834 DATE December 18, 1978

LOCATION Bernieres, Quebec. CLIENT "Sculp"

VG - Very Good


AVG - Average

P - Poor

	POSITION	NAME	EMP #
1.	Party Manager	Robert J. Clark	771521
2.	Field Clerk	Jocelyne Leroux	781819
	Observer	Garry Johnston	671774
4.	Jr./Asst. Observer	Gilbert Desharnais	780309
5.	Surveyor	Karl Thiel	610629
6.	Jr. Surveyor	Michel Mercier	781196
7.	Survey Helper	Luc Laurion	781809
8.	Survey Helper	Cisele Perrault	781807
9.	Mechanic	Rodney Johnston	682107
10.	1st Cable Truck	Larry McGill	771312
11.	2nd Cable Truck	Andre Asselin	781806
12.	3rd Cable Truck	Normand Jalbert	781810
13.	Cable Repair	Paul Sherbaniuk	752267
14.	Rec. Helper	Jean - Paul Gilbert	780634
15.	Rec. Helper	Rene Lesieur	781808
16.	Rec. Helper	Yves Gelinis	781811
17.	Rec. Helper	Camil Henri	781818
18.	Rec. Helper	Francine Desharnais	781805
19.	Rec. Helper	Francine Richard	781850
20.	Rec. Helper	Annette Laroche	781847
	Rec. Helper	Serge Ferland	781995
22.	Rec. Helper	Serge DeMontigny	782169
23.	Rec. Helper	Guy Gelinis	782170
24.	Sur, Helper	Jean - Pierre Martel	781950
25.	Vib. Helper	James Kellerman	761674
26.	Vib. Driver	Michael Marchant	770108
27.	Vib. Driver	Robert Gibson	780125
	Vib. Driver	Niel Barr	772097
29.	Vib. Driver	Pierre Nadeau	782524
30.	Mech.	Michel Viens	761571

COMMENTS: Rec, Helper Remy Hebert N/A  
 Rec. Helper Serge Nadeau N/A

FORM WPP05013

Party Manager's Signature: 

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_

DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.

CREW 6850CONTRACT 834DATE January 08- 1979LOCATION Barnieres, QuebecCLIENT " Soquip "

VG - Very Good

AVG - Average

P - Poor

	POSITION	NAME	EMP #	VEHICLE CARE	SAFETY HABITS	WORK HABITS	JOB INTEREST	CURRENT WAGE RATE	PROMOTABLE POSITION
1.	Party Manager	Robert J. Clark	77152						
2.	Field Clerk	Jocelyne Leroux	781819						
3.	Observer	Garry Johnston	671774						
4.	Jr./Asst. Observer	Gilbert Desharnais	780305						
5.	Surveyor	Karl Thiel	610629						
6.	Jr. Surveyor	Michel Mercier	781196						
7.	Survey Helper	Luc Laurion	781809						
8.	Survey Helper	Gisele Perrault	781807						
9.	Mechanic	Rodney Johnston	682107						
10.	1st Cable Truck	Larry McGill	771312						
11.	2nd Cable Truck	Andre Asselin	781806						
12.	3rd Cable Truck	Yves Gelinac	781811						
13.	Cable Repair	Paul Sherbaniuk	752267						
14.	Rec. Helper	Jean-Paul Gilbert	780632						
15.	Rec. Helper	Camil Henri	781818						
16.	Rec. Helper	Francine Desharnais	781805						
17.	Rec. Helper	Francine Richard	781850						
18.	Rec. Helper	Annette Laroche	781847						
19.	Rec. Helper	Serge Ferland	781995						
20.	Rec. Helper	Serge DeMontigny	782169						
21.	Rec. Helper	Guy Gelinac	782170						
22.	Rec. Helper	Remy Hebert	N/A						
23.	Rec. Helper	Serge Nadeau	N/A						
24.	Sur. Helper	Jean-Pierre Martel	781950						
25.	Vib. Driver	James Kellerman	761674						
26.	Vib. Driver	Michael Marchant	770108						
27.	Vib. Driver	Robert Gibson	780125						
28.	Vib. Driver	Neil Barr	772097						
29.	Vib. Driver	Pierre Nadeau	782524						
30.	Vib. Driver	Jean Boucher	N/A						


COMMENTS:

Mech.

Michel Viens

761571

FORM WPRO5018

Party Manager's Signature: 

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_

DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.

WEEKLY PERSONNEL REPORT

CREW 6350

CONTRACT 834

DATE January 15, 1979

LOCATION Bernieres, Quebec,

CLIENT " Soquip "

VG - Very Good

AVG - Average

P - Poor

	POSITION	NAME	EMP #	VEHICLE CARE	SAFETY HABITS	WORK HABITS	JOB INTEREST	CURRENT WAGE RATE	PROMOTABLE POSITION
1.	Party Manager	Robert J. Clark	771521						
2.	Field Clerk	Jocelyne Laroux	781819						
3.	Observer	Garry Johnston	671774						
4.	Jr./Asst. Observer	Gilbert Desharnais	780309						
5.	Surveyor	Karl Thiel	610629						
6.	Jr. Surveyor	Michel Mercier	781196						
7.	Survey Helper	Luc Layrion	781809						
8.	Survey Helper	Gisele Perrault	781807						
9.	Mechanic	Rodney Johnston	682107						
10.	1st Cable Truck	Larry McGill	771312						
11.	2nd Cable Truck	Andre Asselin	781806						
12.	3rd Cable Truck	Yves Gelinas	781811						
13.	Cable Repair	Paul Sherbaniuk	752267						
14.	Rec. Helper	Jean - Paul Gilbert	780634						
15.	Rec. Helper	Camil Henri	781818						
16.	Rec. Helper	Francine Desharnais	781805						
17.	Rec. Helper	Annette Laroche	781847						
18.	Rec. Helper	Serge Ferland	781995						
19.	Rec. Helper	Serge DeMontigny	782169						
20.	Rec. Helper	Guy Gelinas	782170						
21.	Rec. Helper	Remy Hebert	N/A						
22.	Rec. Helper	Serge Nadeau	N/A						
23.	Cable Helper	Francine Richard	781850						
24.	Sur. Helper	Jean - Pierre Martel	781951						
25.	Vib. Driver	James Kellerman	761674						
26.	Vib. Driver	Robert Gibson	780125						
27.	Vib. Driver	Pierre Nadeau	782524						
28.	Vib. Driver	Jean Boucher	N/A						
29.	Mechanic	Michel Viens	761571						
30.	LIFE TRUCK	NORMAND TALBERT	781810						

COMMENTS: HELPER RENE LESIEUR 781801

FORM WPR-5018

Party Manager's Signature: [Signature]

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_

DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.



WEEKLY PERSONNEL REPORT

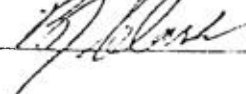
CREW 6850 CONTRACT 834 DATE January 22, 1979

LOCATION Barnieres, Quebec. CLIENT " Soquip "

	VG - Very Good	AVG - Average	
	POSITION	NAME	EMP #
1.	Party Manager	Robert J. Clark	771521
2.	Field Clerk	Jocelyne Leroux	781819
3.	Observer	Garry Johnston	671774
4.	Jr./Asst. Observer	Gilbert Desharnais	780309
5.	Surveyor	Karl Thiel	610629
6.	Jr. Surveyor	Michel Mercier	781196
7.	Survey Helper	Luc Laurion	781809
8.	Survey Helper	Gisele Perrault	781807
9.	Mechanic	Rodney Johnston	682107
10.	1st Cable Truck	Larry McGill	771312
	2nd Cable Truck	Andre Asselin	781806
12.	3rd Cable Truck	Normand Jalbert	781810
13.	Cable Repair	Paul Sherbaniuk	752267
14.	Rec. Helper	Yves Gelinis	781811
15.	Rec. Helper	Jean - Paul Gilbert	780634
16.	Rec. Helper	Rene Lesieur	781808
17.	Rec. Helper	Camil Henri	781818
18.	Rec. Helper	Francine Desharnais	781805
19.	Rec. Helper	Annette Laroche	781847
20.	Rec. Helper	Serge Ferland	781995
21.	Rec. Helper	Serge DeMontigny	782169
22.	Rec. Helper	Guy Gelinis	782170
23.	Rec. Helper	Remy Hebert	N/A
24.	Rec. Helper	Serge Nadeau	N/A
25.	Cable Helper	Francine Richard	781850
26.	Sur. Helper	Jean-Pierre Martel	781950
27.	Vib. Driver	James Kellerman	761674
28.	Vib. Driver	Robert Gibson	780125
29.	Vib. Driver	Pierre Nadeau	782524
30.	Vib. Driver	Jean Boucher	N/A

COMMENTS:  
31 Mechanic Michel Viens 761571

FORM WPR05013

Party Manager's Signature: 

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_ DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager

WEEKLY PERSONNEL REPORT

CREW 6850 CONTRACT 834 DATE January 29 - 1979

LOCATION Berniere, Quebec CLIENT " Soquip "


VG - Very Good

AVG - Average

P - Poor

	POSITION	NAME	EMP #	VEHICLE CARE	SAFETY HABITS	WORK HABITS	JOB INTEREST	CURRENT WAGE RATE	PROMOTABLE POSITION
1	Party Manager	Robert J. Clark	771521						
2	Field Clerk	Jocelyne Leroux	781819						
3	Observer	Garry Johnston	671774						
4	Jr./Asst. Observer	Gilbert Desharnais	780309						
5	Surveyor	Karl Thiel	610629						
6	Jr. Surveyor	Michel Mercier	781196						
7	Survey Helper	Luc Laurion	781809						
8	Survey Helper	Gisele Perrault	781807						
9	Mechanic	Rodney Johnston	682107						
10	1st Cable Truck	Larry McGill	771312						
11	2nd Cable Truck	Andre Asselin	781896						
12	3rd Cable Truck	Normand Jalbert	781810						
13	Cable Repair	Paul Sherbanuk	752267						
14	Rec. Helper	Yves Gelinas	781811						
15	Rec. Helper	Jean - Paul Gilbert	780634						
16	Rec. Helper	Rene Lesieur	781808						
17	Rec. Helper	Camil Henri	781818						
18	Rec. Helper	Francine Desharnais	781805						
19	Rec. Helper	Annette Laroche	781847						
20	Rec. Helper	Serge Ferland	781995						
21	Rec. Helper	Serge DeMontigny	782169						
22	Rec. Helper	Guy Gelinas	782170						
23	Rec. Helper	Remy Hebert	782910						
24	Rec. Helper	Serge Nadeau	782909						
25	Cable Helper	Francine Richard	781850						
26	Sur. Helper	Jean-Pierre Martel	781950						
27	Vib. Driver	James Kellerman	761674						
28	Vib. Driver	Robert Gibson	780125						
29	Vib. Driver	Pierre Nadeau	782524						
30	Vib. Driver	Jean Boucher	N/A						

COMMENTS  
31 Mechanic Michel Vierth 76157

Party Manager's Signature: 

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_ DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.

CREW 0850 CONTRACT 834 DATE February 05, 1979

LOCATION Bernieres, Quebec. CLIENT "Soquip"

VG - Very Good

AVG - Average

P - Poor

	POSITION	NAME	EMP #	VEHICLE CASE	SAFETY HABITS	WORK HABITS	JOB INTEREST	CURRENT WAGE RATE	PROMOTABLE POSITION
1.	Party Manager	Robert J. Clark	771521						
2.	Field Clerk	Jocelyne Leroux	781819						
3.	Observer	Garry Johnston	671774						
4.	Jr./Asst. Observer	Larry McGill	771312						
5.	Surveyor	Karl Thiel	610629						
6.	Jr. Surveyor	Michel Mercier	781196						
7.	Survey Helper	Luc Laurion	781809						
8.	Survey Helper	Gisèle Parrault	781807						
9.	Mechanic	Rodney Johnston	682107						
0.	1st Cable Truck	Andre Asselin	781805						
1.	2nd Cable Truck	Yves Gelinias	781811						
12.	3rd Cable Truck	Rene Lesieur	781808						
13.	Cable Repair	Paul Snerbanius	752267						
14.	Rec. Helper	Jean Paul Gilbert	780634						
15.	Rec. Helper	Camil Henri	781818						
16.	Rec. Helper	Francine Desjardins	781805						
17.	Rec. Helper	Annette Laroche	781847						
18.	Rec. Helper	Serge Perland	781995						
19.	Rec. Helper	Serge Demontigny	782169						
20.	Rec. Helper	Guy Gelinias	782170						
21.	Rec. Helper	Jean Pierre Martel	78195						
22.	Rec. Helper	Remy Habert	782910						
23.	Rec. Helper	Serge Labranche	N/A						
24.	Rec. Helper	Yves Parent	N/A						
25.	Cable Helper	Francine Richard	781850						
26.	Sur. Helper	Serge Nadeau	782909						
27.	Vib. Driver	James Kellerman	761674						
28.	Vib. Driver	Robert Gibson	780125						
29.	Vib. Driver	Pierre Nadeau	782524						
30.	Vib. Driver	Jean Boucher	N/A						
COMMENTS:	Vib. Driver	Normand Jalbert	781810						
	Mechanic	Michel Viana	761571						

FORM WPRC5019

Party Manager's Signature: 

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_

DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.



WEEKLY PERSONNEL REPORT

CREW 6850

CONTRACT 834

DATE February 12, 1979

LOCATION Rougemont, Quebec.

CLIENT " Soquip "

VG - Very Good

AVG - Average

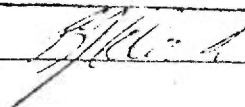
P - Poor


	POSITION	NAME	EMP #
1.	Party Manager	Robert J. Clark	771521
2.	Field Clerk	Jocelyne Leroux	781819
3.	Observer	Garry Johnston	671774
4.	Jr./Asst. Observer	Larry McGill	771312
5.	Surveyor	Karl Thiel	610629
6.	Jr. Surveyor	Michel Mercier	781196
7.	Survey Helper	Luc Laurion	781809
8.	Survey Helper	Gisele Perrault	781807
9.	Mechanic	Rodney Johnston	682107
10.	1st Cable Truck	Andre Asselin	781806
11.	2nd Cable Truck	Yves Gelinas	781811
12.	3rd Cable Truck	Rene Lesieur	781808
13.	Cable Repair	Paul Sherbaniuk	752267
14.	Rec. Helper	Jean-Paul Gilbert	780634
15.	Rec. Helper	Camil Henri	781818
16.	Rec. Helper	Francine Desharnais	781805
17.	Rec. Helper	Annette Laroche	781847
18.	Rec. Helper	Serge Ferland	781995
19.	Rec. Helper	Serge DeMontigny	782169
20.	Rec. Helper	Guy Gelinas	782170
21.	Rec. Helper	Jean-Pierre Martel	781950
22.	Rec. Helper	Remy Hebert	782910
23.	Rec. Helper	Serge Labranche	N/A
24.	Rec. Helper	Yves Parent	N/A
25.	Cable Helper	Francine Richard	781850
26.	Sur. Helper	Serge Nadeau	782909
27.	Vib. Driver	James Kellerman	761674
28.	Vib. Driver	Robert Gibson	780125
29.	Vib. Driver	Pierre Nadeau	782524
30.	Vib. Driver	Jean Boucher	N/A

COMMENTS:

Vib. Driver	Normand Jalbert	781810
Tr. Sur.	Raymond Bibeau	N/A
Mechanic	Michel Viens	761571

FORM WPR05018

Party Manager's Signature: 

EXTRA PERSONNEL AUTHORIZED BY 

DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.



WEEKLY PERSONNEL REPORT

CREW 6850

CONTRACT 834

DATE February 19, 1979

LOCATION Rougemont, Quebec.

CLIENT " Soquip "

VG - Very Good

AVG - Average

P - Poor

	POSITION	NAME	EMP #	VEHICLE CARE	SAFETY HABITS	WORK HABITS	JOB INTEREST	CURRENT WAGE RATE	PROMOTABLE POSITION
1.	Party Manager	Robert J. Clark	77152						
2.	Field Clerk	Jocelyne Leroux	781819						
	Observer	Garry Johnston	671774						
4.	Jr./Asst. Observer	Larry McGill	771312						
5.	Surveyor	Karl Thiel	61062						
6.	Jr. Surveyor	Michel Mercier	781194						
7.	Survey Helper	Luc Laurion	78180						
8.	Survey Helper	Gisele Perrault	78180						
9.	Mechanic	Rodney Johnston	682107						
	1st Cable Truck	Andre Asselin	78180						
	2nd Cable Truck	Yves Gelinas	78181						
12.	3rd Cable Truck	Rene Lesieur	78180						
13.	Cable Repair	Paul Sherbaniuk	75226						
14.	Rec. Helper	Jean - Paul Gilbert	780634						
15.	Rec. Helper	Camil Henri	78181						
16.	Rec. Helper	Françine Desharnais	78180						
17.	Rec. Helper	Annette Laroche	78184						
18.	Rec. Helper	Serge Ferland	78199						
19.	Rec. Helper	Serge DeMontigny	78216						
20.	Rec. Helper	Guy Gelinas	78217						
21.	Rec. Helper	Jean-Pierre Martel	78195						
22.	Rec. Helper	Remy Hebert	78291						
23.	Rec. Helper	Serge Labranche	79025						
24.	Rec. Helper	Yves Parent	79025						
25.	Cable Helper	Francine Richard	78185						
26.	Sur. Helper	Serge Nadeau	78290						
27.	Vib. Driver	James Kellerman	76167						
	Vib. Driver	Robert Gibson	78012						
29.	Vib. Driver	Pierre Nadeau	78252						
30.	Vib. Driver	Jean Boucher	79009						

COMMENTS: Vib. Driver Normand Jalbert 78181

Tr. Sur. Raymond Bibeau N/A

FORM WPR0501B Mechanic Michel Viens 76157

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_ DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.

WEEKLY PERSONNEL REPORT

CREW 6850

CONTRACT 834

DATE February 26, 1979

LOCATION Rougemont, Quebec,

CLIENT " Soquip "

	VG - Very Good	AVG - Average	P - Poor						
	POSITION	NAME	EMP #	VEHICLE CARE	SAFETY	WORK	JOB	CURRENT	PROMOTABLE
1.	Party Manager	Robert J. Clark	771521						
	Field Clerk	Jocelyne Leroux	781819	A					
	Observer	Garry Johnston	671774	VG					
4.	Jr./Asst. Observer	Larry McGill	771312	A					
5.	Surveyor	Karl Thiel	610629	A					
6.	Jr. Surveyor	Raymond Bibeau	N/A	A					
7.	Survey Helper	Luc Laurion	781809	A					
8.	Survey Helper	Gisele Perrault	781807	A					
9.	Mechanic	Rodney Johnston	682107	VG					
10.	1st Cable Truck	Andre Asselin	781806	A					
11.	2nd Cable Truck	Yves Gelinis	781811	A					
12.	3rd Cable Truck	Rene Lesieur	781808	A					
13.	Cable Repair	Paul Sherbaniuk	752267	VG					
14.	Rec. Helper	Francine Desharnais	781805	A					
15.	Rec. Helper	Annette Laroche	781847	A					
16.	Rec. Helper	Serge Ferland	781995	A					
17.	Rec. Helper	Serge DeMontigny	782169	A					
18.	Rec. Helper	Guy Gelinis	782170	A					
19.	Rec. Helper	Jean-Pierre Martel	781950	A					
20.	Rec. Helper	Remy Hebert	782910	A					
21.	Rec. Helper	Serge Labranche	790255	A					
22.	Rec. Helper	Yves Parent	790254	A					
23.	Cable Helper	Francine Richard	781850	A					
24.	Sur. Helper	Serge Nadeau	782909	A					
25.	Vib. Driver	James Kellerman	761674	A					
26.	Vib. Driver	Robert Gibson	780125	A					
27.	Vib. Driver	Pierre Nadeau	782524	A					
28.	Vib. Driver	Jean Boucher	790094	A					
29.	Vib. Driver	Normand Jalbert	781810	A					
30.	Mechanic	Michel Viens	761571	A					

COMMENTS:

FORM WPR05/018

Party Manager's Signature: \_\_\_\_\_

EXTRA PERSONNEL AUTHORIZED BY \_\_\_\_\_

DATE \_\_\_\_\_

The above personnel are your basic crew contract requirements. Do not hire additional personnel without prior authorization from your crew supervisor or area manager.

**CARTE STRUCTURALE  
DU  
SOCLE**