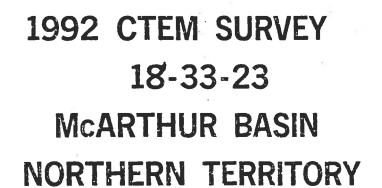
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FINAL REPORT - OPERATIONS

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PACIFIC OIL & GAS PTY LIMITED



# OPEN FILE

1992 CTEM SURVEY

EP 18, 33 MCARTHUR BASIN NORTHERN TERRITORY

FINAL REPORT - OPERATIONS

by

S.P.C. TOBIN, R. PEARCE, B. MATTHES

of

#### GEOSYSTEMS PTY LTD

A wholly owned subsidiary of Geophysical Systems Corporation Pasadena, California, U.S.A.

for

PACIFIC OIL & GAS PTY. LTD

826 Whitehorse Road BOX HILL, VICTORIA 3128

0 R93/79

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#### 1. INTRODUCTION

This report covers the operation of the CTEM survey carried out by Geo Systems Pty Ltd. for Pacific Oil and Gas during the period 24th May 1992 and the 1st August 1992 in EP 18/33 in the Northern Territory of Australia.

The total survey consisted of 290 kilometres of line involving the use of 592,  $500 \times 500 \text{m}$  transmitter loops. It had originally envisaged that the survey would be centred around the Jamison/Mason No. 1 structures with 3 short CTEM traverses over features of interest from previous seismic surveys. These later traverses were however cancelled and preference given to further features in the main Jamison/Mason area.

#### 2. OPERATIONS

GeoSystems Pty Ltd. was originally contracted to provide a camp suitable for a total of up to 30 personnel including 21 of their own personnel to help with the acquisition of the CTEM data. A list of the camp equipment provided by GeoSystems is included in the weekly reports. All the recording equipment and ancillary equipment required for the collection of the CTEM data was provided by and the responsibility of Pacific Oil and Gas.

The total crew was divided into four distinct groups for the collection and processing of the CTEM data as follows.

#### 2.1 SURVEY CREW

This section consisted of one qualified surveyor, one helper and one Toyota together with all necessary survey equipment. All the survey

with the exception of the eastern ends of lines MA91-210 and MA91-230 were along previously cut seismic lines. Wherever possible the old VP pegs were located and used to locate the corners and centres of the receiver loops. On many occasions this was not possible due to the age of the seismic line or due to the presence of cattle. When pegs were not available distances were established by the use of an EDM from permanent markers. Both the corners and centres of the loops were marked by the use of wooden six foot pegs together with a 300mm wooden marker peg. The bearings of the sides and centres of the receiver loops were turned off using a magnetic compass or a theodolite depending on the condition of the seismic line. These bearings were marked using three sighting markers for use by the chaining crew.

As both Line Nos. MA91-210 and MA91-230 were extensions of existing seismic lines, this required line clearing and surveying of the cleared lines.

Seismic lines that had previously been closed off were re-opened with the use of a front end loader prior to the commencement of operations. Coordinates and elevations of the corners and centres of all receiver loops were based on values from previous seismic surveys.

#### 2.2 CHAINING CREW

As one of the main objectives of the survey was to cause the minimum of environmental damage, several changes to the composition of this section were made to the crew during the project. Vegetation throughout the prospect area varied considerably, from thick lancewood to thick scrub, to reasonably open conditions particularly on line SH90-100.

At the start of operations due problems with the recording equipment, only one chaining crew with one Toyota was utilised. This section of the crew certainly had the most difficult job on the whole crew. They were responsible for the cutting of the sides, backs and centres of the receiver loops. All the cutting was done by hand using

machetes with great care being taken to do the least amount of damage as possible to the environment. Wherever possible three people were used to cut the sides of the loops, two people operating a 100m chain and the third person cutting the line and ranging the line using the pegs set up by the surveyors together with any additional ranging pegs as required. On completion of the side the crew would then return down the cut line, picking up all ranging poles and making sure that the line was adequately marked with flagging for the recording crew. A wooden six foot marker pole was left at the end of each side to prevent any confusion with the recording crews. people were utilised to cut the centre lines using a 50m chain. back lines of the receiver loops were set off using a magnetic compass bearing from the side of the square. The back of the loop was then cut in using compass bearings to the end of the next square. An accuracy of less than 2 meters was allowed along this side before necessitating it to be re-cut.

As recording production increased on the crew, a second chaining crew and an extra vehicle were used. In areas of thin bush a chaining crew of only three personnel were used and by carefully checking of lines prior to chaining, a total cutting crew of 11 personnel was found to be sufficient to cut an average of 12 loops per day. This however does not take into consideration personnel unable to work due to pulled muscle or injuries due to the nature of this heavy work.

#### 2.3 RECORDING CREW

Initially the survey started operations using one recording crew due to problems with the Russian Impulse 3 Receiver and Transmitter units, the first loop not being acquired until 29th May. The second unit did not come into operation until the 2nd June. During the first three weeks of operations production continued extremely slowly due to many problems with the Russian equipment. It had originally been anticipated that a total of 2 operators and 6 helpers would be required for each recording crew. However after initial trials, it was discovered that three helpers would be sufficient on each crew together with two operators for the recording equipment under normal operating conditions.

Both recording crews consisted of a Toyota personnel carrier for the electronic recording equipment, one Toyota pick-up for loop cables etc. and a 15KVA mobile DC generator.

The three helpers were used primarily to move the 500m long loop cables as required, whilst both operators were responsible for the operating of the receiver and transmitter equipment. The transmitting equipment was mounted in the personnel carriers but it was necessary to carry the receiver equipment to the centre of the receiver loop via the precut 250m long centre lines. The front 500m receiver cable running along the seismic line was moved up by towing it behind the line pick-up Toyota, and the side 500m loop cable was reeled in using the power winders supplied by Zonge Engineering to Pacific Oil and Gas. The back cables were pulled in by hand using either one or two helpers depending on the thickness of the bush. using a total of seven cables the recording crew was able to lay out cables in advance, thus cutting down waiting time at the completion

of recording each loop. The mobile generators were towed between the centre locations of each loop by either of the Toyota's on the individual crews.

Recording times per loops varied depending on the problems experienced but were normally just less than one hour per loop.

One recording crew was operated by two Russians, Alexander Zakharkin and Anatolii Pauli, whilst the other crew was operated by two Geo System's personnel who had previously been trained by the two above mentioned personnel. All electronic repairs to the Impulse 3 equipment were carried out by the Russian personnel on the crew.

#### 2.4 PROCESSING

Initial processing of the data was carried out on the crew by David McInnes from Pacific Oil and Gas and one Russian operator Yuri Isaev. This part of the operation was left totally under the control of Pacific Oil and Gas.

#### 3. CAMP AND SUPPORT FACILITIES

The camp which was supplied by GeoSystems Pty. Ltd. was situated at the Jameson No. 1 Wellsite, approximately 45 kilometres South east of Dunmarra Roadhouse. Access to the campsite was from the Stuart Highway via reasonable station tracks and fence lines. Good water supplies were drawn by means of a 1.5HP semi-submersible pump  $f_{\text{rom}}$  a depth of 110 meters from the water bore on site.

Fuel supplies for both the camp and the operations were from a bulk fuel tanker supplied by Ampol Australia Ltd. from Katherine.

Food supplies were delivered  $via\; Dunmarra\; Roadhouse\; on\; a\; weekly\; basis\; by\; Trans\; Territory\; Foods\; out\; of\; Katherine.$ 

All survey pegs and supplies were road transported to the crew from Hirex Pty. Ltd. in Alice Springs.

Mechanical parts and various parts required during the crews operations were obtained via GeoSystem's Pty. Ltd. in Perth.

#### 4. PERSONNEL

Party ManagerR.R. Pearce
Ass. Party ManagerD. Cursaro
Surveyor
Mechanic
Operators
J. Smith
Line Boss (Group A)
Line Boss (Group B)J. O'Loughlin
Chaining Crew BossA. Salmon
Chaining Crew Boss
Chaining Crew BossP. Justice
Survey AssistantA. Mackay
CookR. Shanley
Cooks AssistantA. Glass
Camp Assistant
Plus11 Line Helpers

#### 5. SAFETY MEETING REPORT

#### PERSONNEL PRESENT

R. Lane Pacific Oil and Gas

D. McInnes Pacific Oil and Gas

4 Russians

1 Interpreter

Complete CTEM crew (21 People)

MEETING CONDUCTED BY:- R. Lane, R. Pearce

#### POINTS DISCUSSED

- (1) The need for Safety requirements whilst handling loop cables due to the high electric current they carry.
- (2) Continuous 15 second blast on the siren to be given before loop connected up.
  - (3) Three short blasts to be given on siren when loop powered down.
  - (4) If in doubt do not touch cable without checking with operator.
- (5) Make sure that all cables are correctly connected. Demonstrations given .
- (6) GeoSystems Safety manuals given to all line bosses for distribution to crew.
- (7) List of emergency telephone numbers to be displayed at all times in office.
  - (8) Full RFDS medical kit available in office.
  - (9) Each crew to carry an everyday medical kit
- (10) Boots to be worn at all times in field.
- (11) Excessive speeding of vehicles will not be tolerated.
- (12) Vehicles to checked for spare tyres and jacks every day.
- (13) Water to be carried at all times.
- (14) Russians not covered by insurance to drive vehicles.
- (15) Safety glasses to be used at all times when using the power winders.
- (16) The need to be extremely environmentally conscious during the job was explained and personnel warned that any unwarranted damage to the bush or to any of the station owners property would not be tolerated.

#### OTHER POINTS DISCUSSED IN GENERAL DEBATE

The complete crew with the exception of the cook and cook's assistant were then taken to the line where further demonstrations of connecting cables use of the power winders were given and personnel allowed to practice under supervision.

#### SAFETY MEETING REPORT

#### PERSONNEL PRESENT

R. Lane

Pacific Oil and Gas

D. McInnes

Pacific Oil and Gas

4 Russians

Complete CTEM crew (21 People)

MEETING CONDUCTED BY:- R. Pearce

#### POINTS DISCUSSED

- (1) Boots to be worn at all times on the line.
- (2) No bare feet around camp.
- (3) No travelling in the back of vehicles when additional vehicle arrives on crew.
  - (4) Check Jacks, Wheel braces and spares each day.
  - (5) Make sure water carried on all vehicles.
  - (6) Hayfield Station is a NO-GO area.
  - (7) Watch out for washouts on tracks-very difficult to see.
  - (8) Cattle in grass-lands, check cables very carefully before powering up receiver loops.
  - (9) Cleanliness around camp particularly cigarette ends. Use the tins provided around the camp.
  - (10) Reminder about taking as much care as possible when cutting lines.
  - (11) Reminder about snakes.
  - (12) Reminder about continued safety whilst working on loops.

#### OTHER POINTS DISCUSSED IN GENERAL DEBATE

- (1) Need for three extra people on chaining crew. Agreed by R. Lane
- (2) Need for an extra vehicle on chaining crew. This to be covered by survey vehicle for the present.
  - (3) More water required on line. 2 additional eskies to be ordered.

#### PERSONNEL PRESENT

R. Lane

Pacific Oil and Gas

D. McInnes

Pacific Oil and Gas

4 Russians

Complete CTEM crew (24 People)

MEETING CONDUCTED BY:- D. Cursaro

NOT PRESENT R. Pearce - on leave.

#### POINTS DISCUSSED

- (1) Boots to be worn at all times on the line.
- (2) No bare feet around camp.
- (3) No travelling in the back of vehicles when additional vehicle arrives tomorrow.
  - (4) Check Jacks, Wheel braces and spares each day.
  - (5) Make sure water carried on all vehicles.
  - (6) Warning signs to be used at either end of receiver loops.
- (7) All first aid kits on vehicles to checked and topped up if necessary from the office.
- (8) As a lot of cuts have started to get infected the Sister at Elliott recommends using Betadine.
- (9) Snake seen on camp take extra care at night and wear shoes all the time.
- (10) Reminder about taking as much care as possible when cutting lines.
- (11) Reminder about continued safety whilst working on loops.

#### OTHER POINTS DISCUSSED IN GENERAL DEBATE

None

#### SAFETY MEETING REPORT

#### PERSONNEL PRESENT

- D. McInnes Pacific Oil and Gas
- 4 Russians

Complete CTEM crew (25 People)

MEETING CONDUCTED BY:- R. Pearce

#### NOT PRESENT

#### POINTS DISCUSSED

- (1) People still riding in the back of vehicles. There are now enough vehicles on line and no one is to travel in the back.
- (2) People are still getting injured on line clearance, take as much care as you possibly can.
- (3) Work boots must be worn at all times.
- (4) Not impressed with the cleanliness of the vehicles. In future all vehicles will be cleaned every night.
- (5) Faults on vehicles are not being reported at night. It is no good complaining about breaking down in the bush if the mechanic does not know there is a fault.
- (6) There is an outbreak of Tinea on the crew, everyone should wear thongs in the shower.
- (7) Radio aerials should be checked daily. There were two vehicles without aerials tonight.
- (8) Travel times are getting long but this does not mean an excuse to drive fast. There is a speed limit of 60kms/hr on all line vehicles.
- (9) We are having some problems with the shower pit. The outlet from the toilet has been isolated and lime added to the pit.

#### OTHER POINTS DISCUSSED IN GENERAL DEBATE

- (1) There still appears to be problems hearing the sirens particularly in heavy bush. They are to be raised on poles to see if this solves the problem.
- (2) Some complaints about not enough vehicles on line. After discussion it was decided to use the P.M.s vehicle to replace any vehicle being worked on by the mechanics.
- (3) The possibility of moving one chaining crew to Dunmarra whilst shooting line 91-100 was also discussed.

#### PERSONNEL PRESENT

- D. McInnes Pacific Oil and Gas
- 4 Russians

Complete CTEM crew (25 People)

MEETING CONDUCTED BY:- R. Pearce

NOT PRESENT D. Cursaro - Supply run.

#### POINTS DISCUSSED

- (1) Swimming pool can only be used between the hours of 1700 and 1830 hrs. People must enter the pool via the canvas laid on top of the liner. Any fooling around in the pool and it will be banned to everyone.
  - (2) Vehicles are still travelling too fast. Anyone seen will be dismissed.
  - (3) Two people were on line today without boots. Boots will be worn at all times. No excuses will be allowed.
  - (4) People have been using the RFDS medical kit without permission. There is a yeneral medical kit in the office for every-day use.
- 4 (5) Still a bad outbreak of flu on the crew. Additional flu tablets will be on the crew tonight.
- (6) Recording crew will be staying in Dunmarra for the next five days. If there are any complaints about behaviour in the roadhouse there will be no second chances.
- (7) On line 100 the bush is very sparse and vehicles can be used off line provided that no damage is done to either the bush or the vehicles.
- (8) There are a lot of cows on line 100 and great care should be taken whilst driving.
- (9) Due to number of cows on line 100 receiver loops should be checked well before being powered up.

#### OTHER POINTS DISCUSSED IN GENERAL DEBATE

(1) Three people left the crew, complaining about other crew members. If anyone has got any complaints they should see me or Mick Cursaro before things get out of hand.

#### SAFETY MEETING REPORT

#### PERSONNEL PRESENT

- D. McInnes Pacific Oil and Gas
- 1 Trainee Geologist Pacific Oil and Gas
- 3 Russians

Complete CTEM crew (26 people)

MEETING CONDUCTED BY:- R. Pearce

NOT PRESENT

#### POINTS DISCUSSED

- (1) Line and access roads are starting to cut up, take extra care whilst driving.
- (2) Lines are no longer clear enough to use vehicles off-line.
- (3) Two vehicles again with flat spares. It is a long walk back from the line.
- (4) Weather starting to warm up again, remember to carry plenty of water.
- (5) Some peoples cuts are starting to get infected, make sure that everyone uses Betadine on them.
- (6) People are starting to get tired, easy to make mistakes. Take extra care on the line.

#### OTHER POINTS DISCUSSED IN GENERAL DEBATE

None

#### PERSONNEL PRESENT

- D. McInnes Pacific Oil and Gas-
- 3 Russians

Complete CTEM crew (22 people)

MEETING CONDUCTED BY:- R. Pearce

NOT PRESENT

#### POINTS DISCUSSED

- (1) Only one week to go. Take extra care on the lines and don't make any mistakes.
  - (2) Swimming pool not to be used as water is getting dirty.
- (3) Dozing people back on camp. Watch out for extra vehicles and children round camp site.
- (4) All vehicles to be checked out before end of contract and all defects reported.
- (5) Well done and take it easy to end of the contract. We don't want any major disasters now.

#### OTHER POINTS DISCUSSED IN GENERAL DEBATE

None

#### 6. RECOMMENDATIONS

#### (a) Survey

For any future CTEM surveys it would be necessary for the survey crew to commence work at least two weeks prior to the start of recording operations. All previously cut seismic lines have now been closed off and all VP markers removed. This will entail the chaining or EDM distancing from Permanent Markers. Permanent Marker listings of all lines to be recorded will also be required prior to the commencement of operations. The same combination of one surveyor, one assistant and a Toyota pick-up should be sufficient to complete this section of any future survey.

#### (b) Chaining

For any future survey it is recommended that two crews of 5 people per crew be utilised. This would of course require the provision of two vehicles capable of carrying five persons to prevent people from having to travel on the back of vehicles.

Due to the nature of the work involved cutting access it is also recommended that all line clearance personnel be issued with belts with sheaths capable of carrying machetes and small axes to minimise any dangers when tripping over in the bush.

Each crew should also be issued with 3 Magnetic compasses per crew together with 2x100m chains and 1x50m chain.

It is essential that all personnel employed in this section be very strong and fit. This is not a job for the weak hearted.

#### (c) Recording

This section of the crew worked well with 3 people per line crew together with a Toyota pick-up. There will be occasions when the

crew would need one extra person per crew in very heavy bush but these could always be borrowed from the chaining crew.

Cable reels provided for the conductor cables were a lot heavier than required and the power winders utilising starter motors and fan belts left a lot to be desired. Starter motors are not manufactured to run for long lengths of time which led to numerous burn out of brushes and winders. Some form of geared heavy duty motor I am sure would be far more advantageous. As the power winders are only used from the Toyota, the ideal operation would be to have the reels mounted on the Toyota tray and have some form of power winder that could be connected to each reel. It would also be advantageous to have mounted two larger reels capable of carrying up to 3x500m cables on line moves. There should be two power winder's per crew.

The use of two operators per crew during this year's survey worked well. The majority of down-time which occurred during the 1992 CTEM survey resulted from the unreliability of the recording equipment. Most of this lost time initially came from component failure and noise generated within the system. Toward the later part of the contract however the largest contributor to down time was due mainly to connection problems. For future contracts it is recommended that the transmitting electronic equipment be permanently mounted in either a Toyota crew-cab or personnel carrier preferably in a dust proof container. If possible it would be better to have the receiver electronics mounted in the same vehicle rather than in the centre of the loop. This would certainly help reduce the number of problems resulting from bad connections.

Some of the internal noise problems within the system might be reduced by the use of more screened cables.

Very few spares or test equipment were carried on the crew and had it

not been for the proximity of the seismic crew initially, much more downtime would have occurred. It is imperative that adequate test equipment be available on the crew at all times.

The downtime which occurred on the equipment operated by the two Russians was far less than that on the other set of equipment. Some of this could be attributed to unfamiliarity with the equipment but also to lack of electronic or electrical experience. This area should also be looked into on any future projects.

#### (d) Line Generators

These units which were designed and built by CRA, gave no major problems during the survey. The only criticism was the lack of ground clearance which certainly caused problems when towing on seismic line cut this year. The catches on the side doors were not strong enough and need replacing. There was also no clearance between the side doors and the mudguards of the trailer.

#### (e) Camp

Due to the camp being set up as a permanent camp for the complete survey, travel times on the job were long. On any future projects, thought should be given to the use of a more mobile camp. This however would require some form of water tanker to be added to the equipment on the crew.

7		<u>*</u> )	GEOS	YSTEMS F	TY LTD						
7 . REW NO 205			WEEKLY	OPERATIO	INS SUM	MARY		MEEK END	ING	24/5/92	
Gurvey Name ( Area	PACIFIC C TEM JAMISON/N	OIL AND GAS				Client R Crew Add	ер	. C/O Dunmarra Roadhouse			
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Cables Other Other	 	1 1	i   	i i		i ! !	0.00			1	
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Testing out equipme	ent										
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				VEHIC	LES & E(	UIPMENT					
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Recording Group B 710055 PC
Chaining Group A 718915 UTE
Chaining Group B 718914 UTE
Supply Truck.... 6YR169 ISUZU

ACCOMODATION VAN No.4 6UR103 4 PEOPLE 2 PEOPLE ACCOM/OFFICE VAN T504 KITCHEN VAN SHOWER VAN (HIRED) 4 TENTS 6 PEOPLE

80 KVA GENERATOR

			95031	iaiena ri	1 410						
CREW NO 205			WEEKLY	OPERATION	S SUMMA	RY		MEEK END	ING 3	1/5/92	
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						SAT 30			MONTH		
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Safety meeting hel	d 31/5/92										
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Commenced producti Hours included on				ncludes 1/	6/92						
				VEHICLE	S & EQUI						
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r) P			PEUS	YSTEMS PI	IY LID						
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 	WEEKLY 8	OUIPMENT	STATUS	 !		C	OMMENTS,	VISITORS,	ETC.		
:   Camp generator down 	5&6/6/92			1					4	1.3	
				REMARK	S			1.6			
Group B started pro	duction on	2/6/92							10401		
Group completed lin	e 91-103 a	on 6/6/92									
i Group 8 working on	91-210										
Breakdown of hours	kept from	1/6/92									
 				VEHTCLE	 S & EQUIF	MENT					
Party Manager 79 Survey 70 Recording Group A 89 Recording Group B 73 Chaining Group B 73 Supply Truck 69	05643 UTE AD128 PC I0055 PC IB915 UTE IB914 UTE	U				ACCOM/STON ACCOMODAT ACCOMODAT ACCOM/OFF: KITCHEN VA SHOWER VAN	ION VAN N ION VAN N ION VAN N ICE VAN T AN	o.2 7TF34 o.3 6UR10 o.4 6UR10	1 8 PEOPL 5 8 PEOPL 3 4 PEOPL 2 PEOPL	E E E	
						4 TENTS 80 KVA GEN	ERATOR		6 PEOPLE	2 a	

		*	6E0S	YSTEMS PT	Y LTD						
CREW NO 205			WEEKLY	OPERATION	S SUMMAR	RY		WEEK END	ING	14/6/92	
				Party Manager Client Rep Crew Address Crew Phone No			55	R.LANE C/O Dunmarra Roadhouse			
11	! MON 8 !			! THU 11   !					HONTH	ű.	
Travel Hours Test Hours Recording Hours Other Hours Total Hours Total Loops	0.00     15.00     3.00     19.00	1.00 0.00 12.00 6.25	1.00 0.00 12.75 5.00 18.75	1.25   0.00   11.75	1.25 0.00 1.50 0.00 2.75	2.00   0.00   11.00   5.75	2.00 0.00 11.00 4.75 17.75	9.50 0.00 75.00 31.00	18.50 1.00 132.75 61.75 214.00	1	
Total Loops cut	8 1		4	7	12			60		144	
Weather		Fine	Fine	Fine		Fine					
O'own Time - Generator Tx/Rx Cables Other Other Total Down Time.	0.00 0.00 0.00 0.00	0.50 0.00 0.00	0.50 1.25 0.00 0.00	1 0.00 i 1 0.50 i 1 0.25 i 1 0.00 i	0.00 17.25 0.00 0.00	0.00 0.50 0.75 0.00	0.00 0.00 1.25 1.00 0.00	0.00 19.00 4.00	38.75 7.00 3.25 0.00	1	
	MEEKLY (	EQUIPMENT	STATUS			• (	COMMENTS,	VISITORS	 , ETC.		
Additional Toyota	an crew 10,	/6/92			12,Pacific Oil and Gas 11/6/92 (1,Visitor 11/6/92					8	
				REMARKS		10200 N.E.	11				
Group A recording	on line 91	-98				12/6/92	oth sets	of instr	uments da	wn E	
Group 8 recording	on line 91	-210				14/6/92 9	Seismic c	rew aoved	from Jam	ison	
3,Additional perso	nel on cha:	ining cre	during	week							
Safety meeting 8/6	/92										
VEHICLES & EQUIPMENT											
Party Manager Survey Recording Group A : Recording Group B Line Group A Line Group B Chaining	70S643 UTE 500-422 HIL 710055 PC 71B915 UTE 71B914 UTE	LUX (HIRE	))			ACCOMODAT ACCOMODAT	ION VAN ION VAN ION VAN ICE VAN		41 8 PEOP 06 8 PEOP 03 4 PEOP	LE LE LE	
Supply Truck		ľU				4 TENTS 80 KVA GE			6 PEOP	LE	

CREW NO 205			WEEKLY	OPERATION	S SUMMA	RY		MEEK END	ING	21/5/92
Client Survey Name Area State				ı	D. CURSAR R.LANE C/O Dunma 007114051	NE unmarra Roadhouse				
	MON 15							WEEK	HONTH	JOB
Travel Hours Test Hours Recording Hours Other Hours Total Hours Total loops Total loops cut	1.00   10.25   0.00   14.00   7   9	3.50   0.00   13.75   2.25   19.50	3.00 0.00 7.75 7.50 18.25	3.50   3.75   9.00   0.00   16.25   7	3.25 3.50 10.25 0.00 17.00	3.50   2.75   7.75   4.25   18.25	4.75 0.00 9.25 5.50 19.50	11.00 68.00 19.50 122.75	12.00 200.75 81.25 336.75	 
Weather	Fine	Fine 1	Fine		Fine	Fine	Fine	i !		<b>{</b>
Down Time - Generator Tx/Rx Cables Other Other Total Down Time.	0.00 4.50 1.10 0.00	0.50   0.00   0.00	1.75 0.00 0.00 0.00	3.75 i 0.00 i 0.00 i	3.00 0.00 0.00	1.25 1 0.00 1 0.00	0.50 0.00 0.00 0.00	15.25 1.10 0.00	\$ 54.00 \$ 8.10 \$ 3.25 \$ 0.00	[   
	MEEKTA E	GUIPMENT	STATUS				COMMENTS,	VISITORS	. ETC.	
1,Additioal vehicle	ex POG or	line 20/	6/92	i.	2,Visito	r Pacific	Oil and (	Gas 18 <b>&amp;</b> 17	/6/92	
				!		r Pacific		Gas 19/6/	92	
***************************************				!	R.Lane 1	eft crew 2	20/6/92			
Group A recording 1	line 91-98			REMARK	S					
Group B completed I Group B recording I										
1,Additional person	on line 2	20/6/92								
Safety meeting 20/6	792									
				VEHICLE	 S & EQUI	 PMENT				
Line Group A	341-124 8AD128 500-422 7I0055 7IB915 7IB914	UTE UTE (PACI PC HILUX (HI PC UTE UTE		AND GAS)		ACCOM/STO ACCOMODAT ACCOM/OFF ACCOM/OFF KITCHEN V SHOWER VA 4 TENTS	ION VAN N ION VAN N ICE VAN N ICE VAN T AN	No.2 No.3 No.4 1505	6UR103	7 PEOPLE 8 PEOPLE 8 PEOPLE 2 PEOPLE 6 PEOPLE
Supply Truck	6YR169	ISUZU				80 KVA 6E	NERATOR (	(HIRED)		

Line Group A....

Line Group B....

Supply Truck....

718915 UTE

71B914 UTE

ISUZU

6YR169

6 PEOPLE!

80 KVA GENERATOR (HIRED)

SHOWER VAN (HIRED)

4 TENTS

			6E0S	YSTEMS PT	Y LTD				19	
CREW NO 205			WEEKLY	OPERATION	IS SUMMAF	RY		WEEK END	ING	28/6/92
Client Survey Name Area State	CTEM		÷	Party ManagerD. CURSARO Client RepD.McINNES Crew AddressC/O Dunmar Crew Phone No007114051						ouse
# # # # # # # # # # # # # # # # # # #	: MON 22	TUE 23	WED 24	THU 25	FRI 26	SAT 27	SUN 28	WEEK	MONTH	; JOB
Travel Hours Test Hours Recording Hours Other Hours Total Hours Total loops Total loops cut	2.00   9.00   4.25   18.75   9   7	0.00   10.00   4.75   18.50   10   6	0.00 8.75 4.00 15.50 8 10	0.00   9.25   4.75	0.00 7.25 4.75 14.75	0.00 6.75 4.00 15.25	0.00 8.00 4.50 15.00	31.00 1114.75 62	 	1 1 1 479.7 1 239 1 253
Weather		5 1		   Fine	Fine	Fine	Fine		E E	l I
Down Time - Generator Tx/Rx Cables Other Total Down Time	1.25 0.00 0.00 0.00 0.00 1.25	1.00   0.50   0.00	1.00 0.00 3.50 0.00 4.50	3.00 0.00 0.00 0.00	5.25 0.00 0.00 0.00	3.75 1.00 0.00 0.00 4.75	5.00 0.00 0.00 0.00 5.00	1.50 1.50	! ! ! ! 91.10	92.
				DEMAN		ş			<u> </u>	
Group A completed l Group A recording l Group B recording l	ine 92-281	l	2	REMAR						
				VEHICLE		MENT				
Party Manager Survey Chaining Chaining Recording Group A Recording Group B	705643 341-124 8AD128 500-422	UTE UTE UTE (PACI PC HILUX (HI		4		ACCOM/STO ACCOMODAT ACCOMODAT ACCOM/OFF	ORES VAN 1 ION VAN 1 ION VAN 1 ICE VAN 1	Na.2 Na.3 Na.4	7TF340 7TF341 6UR106 6UR103	7 PEOP 8 PEOP 8 PEOP 4 PEOP 2 PEOP

1			†/1	GE051	STEMS PT	Y LTD					
\ \ \ \	CREW NO 205			WEEKLY	OPERATION	ONS SUMMARY WEEK ENDING 5/7/92					
1 (	Client F Survey Name C Area S State N	PACIFIC OI TEM TAMISON /M	L AND GAS				Farty Mana Client Rep Crew Addre Crew Phone	255	D.McINNES C/O Dunma	: irra Roadh	ouse
1		MON 29	TUE 30	WED 1	THU 2 I		N 1			MONTH	JOB
1	Travel Hours Test Hours Recording Hours Other Hours Total Hours Total Loops	0.00   7.50   4.50   15.00   7	0.00   8.50   6.50   18.00	0.00 10.00 7.50 20.00	3.00 0.00 9.00 8.00 20.00	3.00 0.00 9.25 4.50 18.75	0.00   8.25   7.25   19.00	3.50 0.00 8.75 6.75 19.00	21.50 0.00 61.25 47.00 129.75	15.50   0.00   45.25   36.00   96.75   50	609.50 306
!	Weather	Fine			l Fine l	Fine	Fine	Fine	i		
	Down Time - Senerator Tx/Rx Cables Other Total Down Time	0.00 1.50 2.00 1.50 1.50 0.00 5.00	0.00 0.50 0.00 1.25 0.00 1.75	0.00 0.00 0.00 0.00 0.00	0.00   0.00   0.00   0.00	0.00 0.00 0.00 1.25 0.00 1.25	0.00 0.00 0.50 0.50 0.00 1.00	0.00 0.00 0.50 0.50 0.00 1.00	0.00 2.00 3.00 5.00 0.00 10.00	0.00   1.00   2.25   0.00   3.25	
0 00000	Graup A recording o	n linn 97	_201		RENHRNS	)					
5	•	(iii)									
ä	Group & recording on line 92-230  I,Additional person on chaining crew										
a T				VEHICLE	S & EGUIPM	ENT					
: 1	Party Manager       7MC078       UTE       ACCGM/STGRES VAN No.1 7TF340 7 PEOPLE         Survey       70S643       UTE       ACCGM/DATION VAN No.2 7TF341 8 PEOPLE         Chaining       341-124       UTE (PACIFIC GIL AND GAS)       ACCGM/DATION VAN No.3 6UR106 8 PEOPLE         Cnaining       8AD128 PC       ACCGM/OFFICE VAN No.4 6UR103 4 PEOPLE         Recording Group A       500-422 HILUX (HIRED)       ACCGM/OFFICE VAN T504 2 PEOPLE         Recording Group B       710055 PC       KITCHEN VAN         Line Group B       718915 UTE       SHOWER VAN (HIRED)         Line Group B       718914 UTE       4 TENTS       6 PEOPLE         Supply Truck       6YR169 ISUZU       80 KVA GENERATOR (HIRED)										

			GEOS'	YSTEMS PI	TY LTD						
CREW NO 205			MEEKLY	OPERATION	NS SUMMAF	8 <b>Y</b> =		WEEK ENDI	NG	12/7/92	
Client Survey Name Area State	CTEM JAMISON /N				· (	Client Rep Crew Addre	 Ss	R.R.PEARCE D.McINNES C/O Dunmarra Roadhouse 007114051			
	MON 6								MONTH	JOB	
Travel Hours Test Hours Recording Hours Other Hours Total Hours Total Loops Total Loops cut	5.00 0.00 9.00 6.00 20.00 9	2.00   0.00   12.50   3.25   17.75   11   12	2.25 0.00 8.50 3.00 18.75 11	1 3.25 1 18.50 1 14 1 13	3.50 0.00 10.25 3.50 17.25 10	3.50 0.00 9.00 6.25 18.75 10	3.75 0.00 9.00 5.25 18.00 10 14	23.25 0.00 70.25 35.50 129.00 75	0.00 1115.50 71.50 225.75	i l l ! 738.50	
	0.00	0.00 2.25 0.25 0.00	0.00 0.25 1.00 0.00	0.00 0.75 0.75 0.75	0.00 0.75 0.00 2.00 0.00	0.00 0.00 1.25 0.00	0.00 0.00 1.00 1.00 0.00	4.00 4.25 2.00 0.00	4.00 5.25 4.25 0.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1, fawer winder no		EQUIPMENT	STATUS		 			POG an c		7/7/92	
Group A completed Group A recording Group A chaining c Group B recording Very light bush on	crew staye rew_campin crew compl	d in ven a g out on l	at Dunmar Line 7/7/	ra from 6 92 to 11/	/7/92 ta 7/92						
		UTE	VEHICLE	S & E9UIF	ACCOM/STO			40 7 PEOP!		7DJ 823	
Chairing	341-124 8AD128 500-422 710055 718915 718914	PC		AND GAS)	ACCOMODA' ACCOM/OFF ACCOM/OFF KITCHEN V SHOWER VA 4 TENTS	TION VAN ? FICE VAN ? FICE VAN ?	No.3 BUR1 No.4 BUR1 1504	41 8 PEOPI 06 3 PEOPI 03 4 PEOPI 2 PEOPI 6 PEOPI	.E - .E	788 109 7EG 108 7IG 615 6KF 386 6KF 387 6KF 388 6KF 390 789 602	

GEOSYSTEMS	PTY	LTD

				GE081	STEMS PT	Y LTD						
	CREW NO 205			WEEKLY	OPERATION	IS SUMMA!	RY		WEEK ENDI	NG	19/7/92	
	Client	CTEM JAMISON //				1	Client Rep Crew Addra	95	R.R.PEARCE D.McINNES C/O Dunmarra Roadhouse 007114051			
		1 MON 13						SUN 19	WEEK	MONTH	J08	
1	Travel Hours Test Hours Recording Hours Other Hours Total Hours Total Loops Total Loops cut	3.50 0.00 9.25 4.25 17.00 10	3.75   0.00   10.00   5.00	3.50 - 0.00 8.50 3.00 15.00	3.00 0.00 10.25 5.25 18.50	3.00 0.00 9.50 5.50 18.00	3.00 0.00 9.25 5.30 17.75	0.00 -10.75 -4.25 -19.50 -13 -9	0.00   67.50   34.75   124.50   76	0.00 193.00 106.25 350.25 201	863.00 457	
-	Weather	Fine	i Fine	Fine	   Fine	Fine	Fine	Fine	i i		i	
	Down Time - Generator Tx/Rx Cables Other Uther Total Down Time.	0.00 0.75 2.25 0.00	0.00   0.25   1.00   0.00	5.00 0.00 0.00 0.00 0.00 5.00	0.00 0.00 0.00 1.50 0.00	2.00 0.00 0.00 0.00	2.00   0.00   0.25   0.00	0.25 0.00 0.25 0.00	2.50 3.00	7.00 7.75 7.25 0.00	 	
	1,Replacement Power		EGUIPMENT	STATUS	0.000	i,,Person	trensfera		VISITORS,			
10 10 to 10	Group A working on	line 90-1	00		REMARKS	5						
2000	Group 8 working on	line 91-9	2								3	
1	Line 100 fairly ope	en										
	Heavy ousn on north	nern end o	f line 93								8	
Catal City				VEHICLE		 1ENT						
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Party Manager         7MC078         UTE         ACCOM/STORES VAN No.1 7TF340 7 PEOPLE           Survey         70S643         UTE         ACCOMODATION VAN No.2 7TF341 8 PEOPLE           Chaining         341-124         UTE (PACIFIC OIL AND GAS)         ACCOMODATION VAN No.3 6UR106 8 PEOPLE           Chaining         3AD128         PC         ACCOM/OFFICE VAN No.4 6UR103 4 PEOPLE           Recording Group A         500-422         HILUX (HIRED)         ACCOM/OFFICE VAN T504         2 PEOPLE           Recording Group B         710055         PC         KITCHEN VAN           Line Group A         718915         UTE         SHOWER VAN (HIRED)           Line Group B         718914         UTE         4 TENTS         6 PEOPLE           Supply Truck         6YR169         ISUZU         80 KVA GENERATOR (HIRED)											

		100	GEOS	STEMS P	TY LTD					
CREW NO 205			WEEKLY	OPERATION	NS SUMMAF	RY		WEEK END	ING	26/7/9
Client	CTEM JAMISON/MA		1	Clien Crew			ty Manager R.R.PEAR ent Rep D.McINNE w Address C/ODunma w Phone No 00711405		S Arra Roadhouse	
	MON 20							. WEEK	I MONTH	; JOB
Travel Hours Test Hours Recording Hours Other Hours Total Hours Total loops cut	3.00 0.00 11.00 4.00 18.00 11	3.50   0.00   8.00   7.00	2.00 0.00 12.00 6.00 20.00	2.50 0.00 10.00 4.50 49.00	3.00 0.00 11.00 5.00 19.00	3.00 0.00 8.00 7.50 18.50	2.00 0.00 10.00 7.00 19.00	0.00 70.00 43.00	1 253.00 1 149.25 1 482.25 1 277	       995.
Weather	; Fine	Fine	Fine	Fine	Fine	Fine	Fine	İ		1
Down Time -  Generator  Tx/Rx  Cables  Other  Total Down Time.	0.00 0.00 0.00 2.00	0.00   0.00   0.00   1.50   0.00	0.00 0.00 0.00 0.00	0.00 0.50 0.00 0.50 0.50	0.00 0.00 0.00 1.00 0.00	0.00   0.75   0.75   0.00	0.00 0.00 0.00 1.00 0.00	1.25 0.75 6.00 0.00	10.25 8.50 13.25	 
Group & Receiver la		EQUIPMENT			3,People	left crev		VISITORS	14 0 mg/s	e e
Group A completed in Stroup A working on Group A in Dunmarra Group B completed in Stroup B working on	91-109 1 21 to 24/ ines 91-93	7/92	51	REMARKS	E)					
				VEHICLE	S & EQUIP	MENT				
Farty Manager Surveyor Chaining Recording Group A Recording Group B Line Group A Supply Truck	7.05643 341-124 8AD128 500-422 710055 71B915 71B914	UTE UTE UTE PC HILUX (HI PC UTE UTE UTE		OIL & GAS	}	ACCOMODAT ACCOMODAT ACCOM/OFF	ION VAN N ION VAN N ICE VAN N ICE VAN 1 AN (HIRED)		1 8 PEOPL 6 8 PEOPL 3 4 PEOPL	.E .E .E

Survey Name	PACIFIC OIL AND GAS CTEM JAMISON/MASON NT					Client R Crew Add	ep ress	R.R.PEARCE D.McINNES C/ODunmarra Roadhouse 007114051		
	MON 27	TUE 28	WED 29	THU 30	FRI 31	SAT 1	1 SUN 2	WEEK	HONTH	1 108
Travel Hours	2.00	2.00	2.00	5.00	2.00	1.00	0.00	14.00	93.00	
Test Hours	0.00	0.00	0.00	0.00	0.00	1 0.00	0.00	0.00	0.00	1
Recording Hours	9.00	11.00	8.00	2.00	12.00	1 4.00	0.00	48.00	295.00	1
Other Hours	8.00	4.00	5.00	9.00	4.00	1 2.50	1 0.00	36.50	185.75	i
Total Hours	19.00	19.00	15.00	16.00	20.00	1 9.50	1 0.00	1 78.50	571.25	11093.5
Total loops	10	11	9	4	16	1 7	1 0	57	327	1 590
Total loops cut	1 7	7	11	8	6	1 2	1 0	41	322	1 593
	1		8		1		1	1	i	1
Weather	Fine	Fine	Fine	Fine	Fine	# Fine	Fine		l !	! !
Down Time -	i		(		1	1	1			
Generator	0.00			0.00					5.00	1
Tx/Rx	1.00	0.00	2.00	2.00	0.00	1 0:00	1 0.00	5.00	15.25	ł
Cables	0.00	0.00	1.00	1.00	0.00	0.00	0.00	2.00	10.50	L L
Other	0.00	1.00	2.00	1.00	0.00	1 0.00	1 0.00	4.00	1 17.25	1
Other	1 0.00	0.00	0.00	0.00	0.00	0.00	1 0.00	0.00	0.00	1
Total Down Time	1.00	1.00	5.00	4.00	0.00	0.00	1 0.00	1 11.00	48.00	1 146.8
Hilux (hired) returned to Darwin 2/8/92 Generator (Hired) returned to Darwin 2/8/92					11,Person left crew 28/7/92 11,Pacific Oil and Gas left 29/7/92 11,Russian left crew 2/8/92 19,Geos. personnel left crew					
								427		
					- A					
227			=	REMARKS	5.			72		
Line 91-109 complet Line 91-251 complet Line 91-103 complet Line 91-296 complet Line 91-223 complet	ted ted ted			REMARKS pleted pr pent pack	-			3		
Line 91-251 complet Line 91-103 complet Line 91-296 complet	ted ted ted ted		2/8/92 s	pleted pr pent pack	ing upec			35		
Line 91-251 complet Line 91-103 complet Line 91-296 complet Line 91-223 complet	ted ted ted ted		2/8/92 s	pleted pr pent pack eap frogg	ing upec	quipment				
Line 91-251 complet Line 91-103 complet Line 91-296 complet Line 91-223 complet 2,Recording crews to	ted ted ted ted used to sho	not line 9	2/8/92 s	pleted pr pent pack eap frogg	ing up ed	quipment	TORES VAN		 40 7 PEOP	 LE
Line 91-251 completed time 91-103 completed time 91-296 completed time 91-223 completed 2. Recording crews to the party Manager	ted ted ted ted ted used to sho	not line 9	2/8/92 s	pleted pr pent pack eap frogg	ing up ed	Quipment  [PMENT  ACCOM/S	TORES VAN			
Line 91-251 complet Line 91-103 complet Line 91-296 complet Line 91-223 complet 2,Recording crews to	ted ted ted ted used to sho 7MC078 . 70S643	ot line 9  UTE UTE	2/8/92 s	pleted pr pent pack eap frogg	ing up ed ing) ES & EQUI	Quipment (PMENT ACCOM/S ACCOMOD		No.2 7TF34	41 8 PEOP	LE
Line 91-251 completed time 91-296 completed time 91-296 completed time 91-223 completed time 91-250 completed	ted ted ted ted used to sho . 7MC078 . 70S643 . 341-124	ot line 9  UTE UTE	2/8/92 s	pleted pr pent pack eap frogg  VEHICL	ing up ed ing) ES & EQUI	PMENT  ACCOM/S  ACCOMODO  ACCOMODO	ATION VAN	No.2 7TF34 No.3 6UR10	41 8 PEOP 06 8 PEOP	LE LE
Line 91-251 completed time 91-296 completed time 91-296 completed time 91-223 completed	ted ted ted ted used to sho 7MC078 70S643 341-124 8AD128	ot line 9  UTE UTE UTE	2/8/92 s	pleted pr pent pack eap frogg  VEHICL	ing up ed ing) ES & EQUI	PMENT  ACCOMODA  ACCOMODA  ACCOMODA	ATION VAN ATION VAN FICE VAN	No.2 7TF34 No.3 6UR1( No.4 6UR1(	41 8 PEOP 06 8 PEOP 03 4 PEOP	LE LE LE
Line 91-251 completed Line 91-103 completed Line 91-296 completed Line 91-223 completed	ted ted ted ted ted . 7MC078 . 70S643 . 341-124 . 8AD128 . 500-422	ute UTE UTE UTE PC	2/8/92 s	pleted pr pent pack eap frogg  VEHICL	ing up ed ing) ES & EQUI	PMENT  ACCOMODA  ACCOMODA  ACCOMODA	ATION VAN ATION VAN FICE VAN FICE VAN	No.2 7TF34 No.3 6UR1( No.4 6UR1(	41 8 PEOP 06 8 PEOP 03 4 PEOP	LE LE LE
Line 91-251 completed Line 91-103 completed Line 91-296 completed Line 91-223 completed	ted ted ted ted ted . 7MC078 . 70S643 . 341-124 . 8AD128 . 500-422 . 7I0055	UTE UTE UTE UTE PC HILUX (HI	2/8/92 s	pleted pr pent pack eap frogg  VEHICL	ing up ed ing) ES & EQUI	PMENT  ACCOM/S' ACCOMODA ACCOM/OF ACCOM/OF ACCOM/OF ACCOM/OF KITCHEN	ATION VAN ATION VAN FICE VAN FICE VAN	No.2 7TF34 No.3 6UR10 No.4 6UR10 F 504	41 8 PEOP 06 8 PEOP 03 4 PEOP	LE LE LE
Line 91-251 completed Line 91-103 completed Line 91-296 completed Line 91-223 completed	ted ted ted ted ted ased to show 70078 705643 341-124 8AD128 500-422 710055 718915	ute ute ute ute PC HILUX (HI	2/8/92 s	pleted pr pent pack eap frogg  VEHICL	ing up ed ing) ES & EQUI	PMENT  ACCOM/S' ACCOMODA ACCOM/OF ACCOM/OF ACCOM/OF ACCOM/OF KITCHEN	ATION VAN I ATION VAN I FICE VAN I VAN	No.2 7TF34 No.3 6UR10 No.4 6UR10 F 504	41 8 PEOP 06 8 PEOP 03 4 PEOP	LE LE LE