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North Yilgarn Seismic Survey 2001,

Field Acquisition and Operations Report

Trace Energy Services

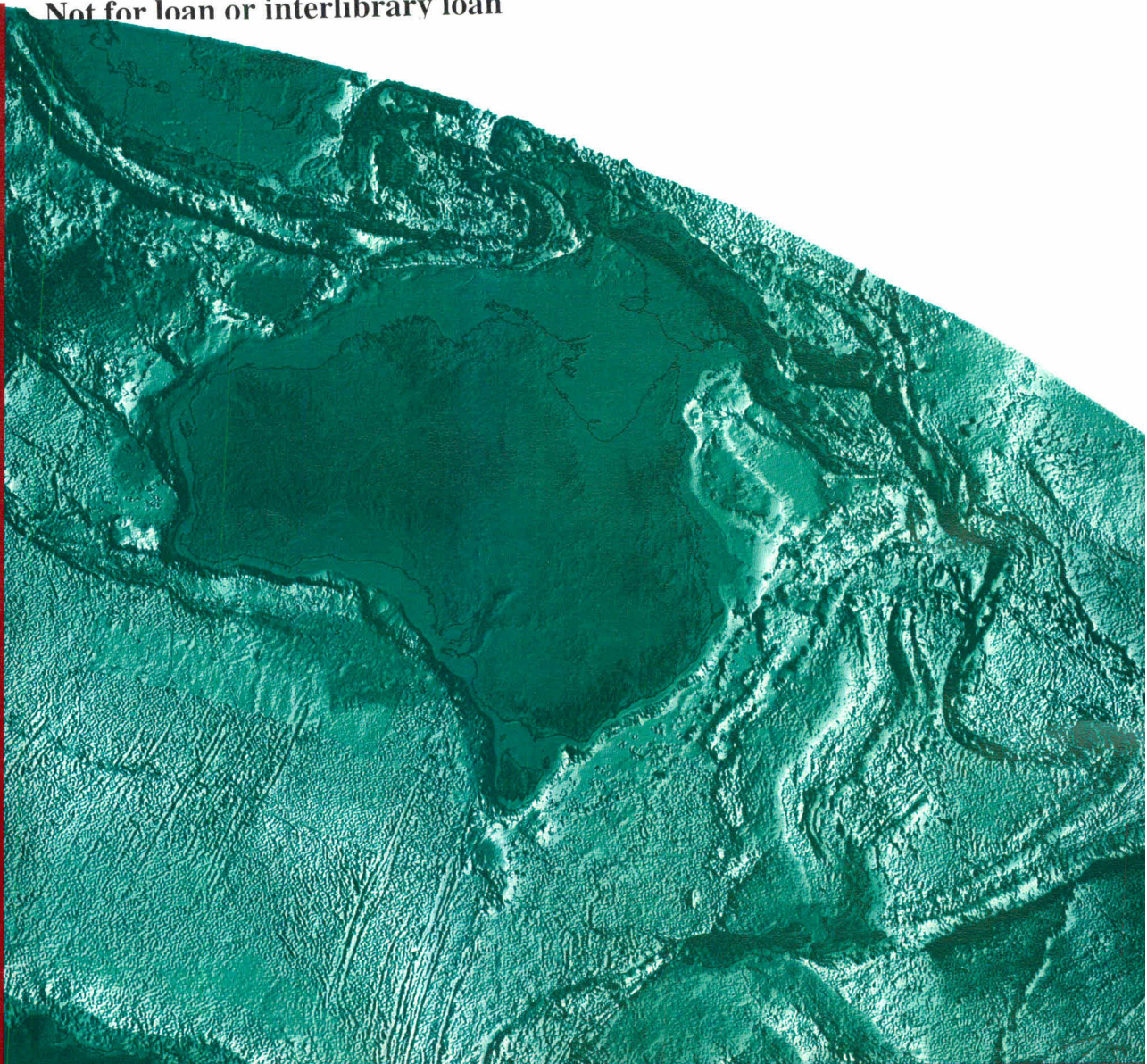
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TRACE
TRACE ENERGY SERVICES

NORTH YILGARN SEISMIC SURVEY

WESTERN AUSTRALIA

FIELD ACQUISITION AND OPERATIONS REPORT

FOR

AGSO

(Australian Geological Survey Organisation)

BY

TRACE ENERGY SERVICES

AUGUST - SEPTEMBER 2001



FINAL REPORT - OPERATIONS

BY

S.BARBOUR

OF

**TRACE ENERGY SERVICES
1ST FLOOR, 2/37 HOWSON WAY
BIBRA LAKE, WESTERN AUSTRALIA 6106**

FOR

**AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
SYMONSTON
ACT 2609**

TABLE OF CONTENTS

1	INTRODUCTION	4
1.1	GEOGRAPHICAL AREA	4
1.2	WEATHER	5
1.3	LOGISTICS	6
2	SURVEYING	7
2.1	RANGING/CHAINING/SURVEY	7
2.2	LINE CLEARING/FENCING	7
2.3	PERMITTING	7
3	RECORDING	8
4	PERSONNEL	9
5	EQUIPMENT	10
5.1	RECORDING EQUIPMENT	10
5.2	SOURCE EQUIPMENT	10
5.3	OFFICE EQUIPMENT AND COMMUNICATIONS	10
5.4	VEHICLES	11
5.5	CAMP EQUIPMENT	11
5.6	OCCUPATIONAL HEALTH AND SAFETY STANDARDS	12
5.7	FIRE PREVENTION EQUIPMENT	12
6	3490E TAPE LISTING	13
7	SAFETY MEETING REPORTS	15
8	SAFETY STATISTICS	18
 APPENDIX		
A)	DAILY OPERATION REPORTS	See Marker
B)	PARAMETER SHEETS	See Marker
C)	DSS SURVEY REPORT (INC CHAINING NOTES)	See Marker

1 INTRODUCTION

Trace Energy Services was contracted by AGSO to conduct the North Yilgarn 2D Seismic Survey located in the West Australian goldfields region. In total 505.90 kms of 240 channel 2D data was recorded on 4 lines from the 2nd August to the 4th September 2001.

This report covers various field operations relating to chaining, survey, and recording.

1.1 GEOGRAPHICAL AREA

The North Yilgarn 2D seismic program consisted of 4 seismic lines numbered from 01AGSNY1 through to 01AGSNY4. The total surface coverage was 505.90 kms.

The North Yilgarn program was located north of Kalgoorlie in the state of Western Australia. The program covered a large region extending from Leonora through to Laverton and then continued to the northeast beyond Yeo Lake Nature Reserve.

Most of the lines followed existing tracks and road, however a small amount of line clearing was necessary on Line 01AGSNY3 and Line 01AGSNY4.

Line 01AGSNY2 was located at Granny Smith goldmine 21 kilometres south of Laverton. This line followed existing tracks and the main haul road within the mining lease.

Line 01AGSNY4 was located at Sunrise Dam goldmine; the mine is located approximately 70 kilometres south of Laverton. This line was within the mining lease and followed existing tracks. To allow access for the vibes a small amount of line clearing was necessary.

Line 01AGSNY3 was located to the east of Yeo Lake Nature Reserve and traversed Mulga flats and small sand dunes. Line preparation was carried out under the supervision of the Geological Survey of West Australia (GSA)



The longest line 01AGSNY1 started to the west of Leonora at Sons of Gwalia minesite. The line then followed the old Leonora to Laverton road passing through the Centre of Laverton; it then extended east finishing on the Anne Beadell Highway (Serpentine Lakes Track) just east of the Yeo Lake Nature Reserve.



1.2 WEATHER

The weather was generally fine and windy with cold nights and warm days. Heavy rains on the 29th August delayed the crew by 1 hour due to slippery conditions and line problems.

1.3 LOGISTICS

On the 1st August 2001 the crew mobilised from Kalgoorlie after spending 2 days unloading recording equipment and preparing the crew for the North Yilgarn Seismic Survey. Whilst in Kalgoorlie the crew stayed at the Albion Shamrock Hotel/Motel in Boulder.

The crew was accommodated in a mobile trailer camp. The camp was set up at 6 locations.

The first camp was established on the 1st August 2001 at Old Murrin Murrin township located approximately 50 km east of Leonora on the Old Leonora to Laverton Rd. This provided access to the western end of line 01AGSNY1. On the 8th August the camp was moved to a location 5 km west of Laverton. On the 17th August the 3rd move had the crew set up at a campsite 65 km east of Laverton on White Cliff's Station. After 2 days at White Cliff station the camp was then relocated on the 19th to Yamarna Homestead (abandoned) 110 km east of Laverton. The camp was then moved again to a new site east of Yeo Lake Nature Reserve, this location provided access to the eastern end of line 01AGSNY1 and line 01AGSNY3. The final camp move took place on the 2nd September to a campsite 16 km south of Laverton, this camp location was used whilst recording line 01AGSNY4.

Bulk fuel was delivered from Leonora by Westside Petroleum for storage in Trace Energy Service's bulk diesel storage tanks, it was necessary for the Trace fuel truck to drive to a rendezvous point on the delivery route as access to some campsites was difficult for the Westside road train.

Potable water was transported to camp by a 9000 litre water tank mounted on Trace Energy Services 6 x 4 Kenworth. Water was sourced from both Leonora and Laverton from an overhead standpipe. It should be noted that the water supply at both locations is coin operated.

Data tapes were handed to AGSO on a daily basis for infield processing and quality control.

Digital phones (Telstra) worked in some areas, although signal strength on the lines varied with the majority of the area experiencing no signal.

Radio communications between all parties was via Trace Energy Services own UHF radios and 40 Channel UHF CB radios channel 9.

2 SURVEYING

2.1 RANGING/CHAINING/SURVEY

Chaining and Survey was contracted to Dynamic Satellite Surveys of Yeppoon, Queensland, Australia. See DSS Final Report Appendix "C".

The survey commenced on the 28th July and was completed on the 30th August 2001.

When chaining, plastic pin markers were placed at 30 or 40 metre intervals along the seismic lines. Even numbered pegs were marked with the station number. Permanent markers were placed on fences as close to starts, ends and intersections of lines as possible. P.M.'s were also placed on road verges. P.M.'s consisted of a full star iron driven into the ground and concrete placed around the base. The PM was then fitted with a stamped aluminium tag bolted to the top. The tag was marked with the line number and closest VP number.

2.2 LINE CLEARING/FENCING

Line clearing was kept to an absolute minimum with almost the entire program planned to follow existing tracks with only line 01AGSNY3 and part of 01AGSNY4 being cleared through scrub.

To minimise disturbance to the rootstock a stick rake was fitted to the dozer, the dozer also weaved along the seismic line leaving all trees.

2.3 PERMITTING

Permitting was conducted by AGSO and GSWA appointed permit persons.

3 RECORDING

The first production profile was recorded on Line 01AGSNY1 on the 2nd August 2001. The final day's production took place on the 4th September on Line 01AGSNY4.

Recording Parameter sheets form Appendix 'B' of this report. These cover all aspects of the parameters for each line. Details of recording equipment are listed in Section 5 of this report. A list of 3490 tapes forms Section 6 of this report.



4 PERSONNEL

CREW LIST

AGSO NORTH YILGARN SEISMIC SURVEY

1	Crew Chief	Bob Stephenson
2	Safety Officer	Russel Gregg
3	Senior Observer	Wayne Arnold
4	Line Boss	Mark hill-Webber
5	Line Crew 1	Mathew Barbour
6	Line Crew 2	Leeton McHugh
7	Line Crew 3	Luke Francis
8	Line Crew 4	Nick Kapeller
9	Line Crew 5	Gary Steel
10	Line Crew 6	Scott Green
11	Line Crew 7	Liz Goold
12	Line Crew 8	Joseph Keane
13	Line Crew 9	Dave Depootert
14	Line Crew 10	Desmond Postans
15	Line Crew 11	Michael Lilly
16	Line Crew 12	Mathew Hartlieb
17	Electronics Engineer	Mike Bokor
18	Senior Vibe Mechanic	John Philippson
19	Vibe Mechanic	Richard Barnes
20	Senior Vehicle Mechanic	Colin Sharam
21	Cook	Waati Waerea
22	Cooks Assistant	Shane Wood
23	Camp Attendant	Julien Goossens
24	Vibrator Driver 1	Shane Goossens
25	Vibrator Driver 2	Allan Tanner
26	Vibrator Driver 3	James Butcher
27	Mechanic / Supply Driver	Peter McKenzie
28	Cable/Geophone Repair	Noel Grainger
29	Security Personnel 1	Eric Olsen
30	Security Personnel 2	Jon Tanner

5 Equipment

5.1 RECORDING EQUIPMENT

ARAM 24 Seismic Data Acquisition and Processing System including

- Real Time Parallel Processor Correlator
- One (1) 10 metre Radio Mast on Recorder with High Gain Antenna
- Forty Five (45) Remote Acquisition Modules [360 Channels]
- Forty-Five (45) Telemetry Data Cables [360 channels], 348 metres long, with eight (8) take outs spaced at 43 metres apart.
- Geospace DX4 10Hz High Specification Superphones
- [Broad Dynamic Range, High S/N, High Specification]
- Three Hundred and Sixty (360) geophone strings [360 Channels with 12 ph/group],
- Sensor SMT-200 Geophone Tester and QC System

5.2 SOURCE EQUIPMENT

Four (4) IVI Hemi 60 4x4 Articulated Buggy mounted Vibrators

- Peak force is 62,031 lbs per Vibe and
- Hold-Down weight is 63,000 lbs per Vibe
- One (1) Pelton Advance 2 Model 6 PC Based VIBRASIG
- Real Time Similarity System
- Five (5) Pelton Advance 2 Model 6 VCEs plus various spare boards.
- One (1) Pelton Advance 2 Model 6 ESG for Recording Truck plus spare boards.
- Three (3) Vibrators operating Online [186,093lbs Force] and One (1) on Standby.
- Vibrators are equipped with Force Control and Ground Force Phase Lock using
- M5 High Performance accelerometers.
- Electronics are capable of correlating various individual sweep frequencies and compositing any range or variation of Upsweeps or Downsweeps within the same VP location. This process is Trade Marked as Varisweep.

5.3 OFFICE EQUIPMENT AND COMMUNICATIONS

- One (1) PC based Crew Management and Information System complete with software, Laptop PC and printer
- Four (4) Mobile UHF Radios for Crew and Local Shire Communications.
- One (1) Optus Satellite Telephone in PMs Office or Toyota

- One (1) Motorola Syntrex or equivalent FM radio for Field Communications
- Assorted Daily, weekly and Monthly Operations forms, Safety and Environmental Incident report Forms, crew and System Technical Manuals and Maintenance Handbooks.

5.4 VEHICLES

- One (1) Isuzu 4WD Recording Truck equipped with an Airconditioned recording cab, Power generator and First Aid Kit
- One (1) HZJ75 Toyota 4x4 Party Manager
- Two (2) HZJ75 Toyota 4x4ATU Line Unit
- One (1) HZJ75 Toyota 4x4Line Boss Unit
- Three (3) HZJ75 Toyota 4x4Line Units
- One (1) HZJ75 Toyota 4x4Chaining Unit
- One (1) HZJ75 Toyota 4x4 GPS Survey Unit
- One (1) HZJ75 Toyota 4x4Mechanics Unit
- One (1) Isuzu 4x4 Vibrator Service Unit.
- One (1) Isuzu 4x4 Cable/Geophone Unit.
- One (1) Hino 4x4 Supply Truck.
- One (1) Kenworth 6x4 Water Truck.

5.5 CAMP EQUIPMENT

- One (1) Mobile office
- Ten (10) Mobile sleeper vans.
- One (1) Mobile kitchen van
- One (1) Mobile stores van
- One (1) Mobile Diner
- One (1) Mobile ablutions
- One (1) Mobile cable repair
- One (1) Workshop/Parts Store Caravan equipped with power and hand tools, electric and oxy/acetylene welding equipment.
- One (1) AGSO office van
- One (1) 65 kva generator
- Two (2) Chemical toilets

5.6 OCCUPATIONAL HEALTH AND SAFETY STANDARDS

- Crew Startup Induction/Safety meeting
- Weekly Senior Personnel Performance/Operations Meeting
- Sunday Crew Safety Meeting
- Sunscreens and UV blockout creams supplied at no cost to all crew members
- Hats, shirts and covered safety footwear must be worn by field crew at all times
- Reflective Safety Vests for all Survey and Recording Crew personnel
- Road signage to Australian Standard AS 1742.3
- UHF 40 channel Radios along with Mobile Satellite Telephones and Fax machines
- Crew Medivac procedures in place as per SSSP

5.7 FIRE PREVENTION EQUIPMENT

- One (1) Backpack Portable Water Spray Unit and metal rake mounted on each vehicle.
- Two 900L Portable Firefighting units

6 3490E Tape Listing

Reel Number:	L15401001	Stn To Stn:	1216 To 1228	File To File:	1 To 12	01AGSNY1
Reel Number:	L15401002	Stn To Stn:	1216 To 1228	File To File:	13 To 30	01AGSNY1
Reel Number:	L15401003	Stn To Stn:	992 To 1240	File To File:	1 to 120	01AGSNY1
Reel Number:	L15401004	Stn To Stn:	1242 To 1306	File To File:	121 to 153	01AGSNY1
Reel Number:	L15401005	Stn To Stn:	1308 To 1548	File To File:	154 To 274	01AGSNY1
Reel Number:	L15401006	Stn To Stn:	1550 To 1732	File To File:	275 To 366	01AGSNY1
Reel Number:	L15401007	Stn To Stn:	1734 To 1926	File To File:	367 To 463	01AGSNY1
Reel Number:	L15401008	Stn To Stn:	1928 To 2128	File To File:	464 To 565	01AGSNY1
Reel Number:	L15401009	Stn To Stn:	2130 To 2222	File To File:	566 To 612	01AGSNY1
Reel Number:	L15401010	Stn To Stn:	2224 To 2426	File To File:	613 To 714	01AGSNY1
Reel Number:	L15401011	Stn To Stn:	2428 To 2630	File To File:	715 to 816	01AGSNY1
Reel Number:	L15401012	Stn To Stn:	2632 To 2726	File To File:	817 To 864	01AGSNY1
Reel Number:	L15401013	Stn To Stn:	2728 To 2896	File To File:	865 To 949	01AGSNY1
Reel Number:	L15401014	Stn To Stn:	2898 To 3100	File To File:	950 To 1051	01AGSNY1
Reel Number:	L15401015	Stn To Stn:	3102 To 3240	File To File:	1052 To 1121	01AGSNY1
Reel Number:	L15401016	Stn To Stn:	3242 To 3442	File To File:	1122 To 1223	01AGSNY1
Reel Number:	L15401017	Stn To Stn:	3444 To 3646	File To File:	1224 To 1325	01AGSNY1
Reel Number:	L15401018	Stn To Stn:	3648 To 3750	File To File:	1326 To 1377	01AGSNY1
Reel Number:	L15401019	Stn To Stn:	3752 To 3954	File To File:	1378 To 1479	01AGSNY1
Reel Number:	L15401020	Stn To Stn:	3956 To 4072	File To File:	1480 To 1538	01AGSNY1
Reel Number:	L15401021	Stn To Stn:	4106 To 4270	File To File:	1539 To 1621	01AGSNY1
Reel Number:	L15401022	Stn To Stn:	4272 To 4474	File To File:	1622 To 1723	01AGSNY1
Reel Number:	L15401023	Stn To Stn:	4476 To 4678	File To File:	1724 To 1825	01AGSNY1
Reel Number:	L15401024	Stn To Stn:	4680 To 4788	File To File:	1826 To 1880	01AGSNY1
Reel Number:	L15401025	Stn To Stn:	4790 To 4992	File To File:	1881 To 1982	01AGSNY1
Reel Number:	L15401026	Stn To Stn:	4994 To 5196	File To File:	1983 To 2084	01AGSNY1
Reel Number:	L15401027	Stn To Stn:	5198 To 5306	File To File:	2085 To 2139	01AGSNY1
Reel Number:	L15401028	Stn To Stn:	1000 To 1010	File To File:	2140 To 2151	01AGSNY2
Reel Number:	L15401029	Stn To Stn:	1000 To 1202	File To File:	2146 To 2247	01AGSNY2
Reel Number:	L15401030	Stn To Stn:	1204 To 1380	File To File:	2248 To 2335	01AGSNY2
Reel Number:	L15401031	Stn To Stn:	1382 To 1584	File To File:	2336 To 2437	01AGSNY2
Reel Number:	L15401032	Stn To Stn:	1586 To 1796	File To File:	2438 To 2539	01AGSNY2
Reel Number:	L15401033	Stn To Stn:	1798 To 1846	File To File:	2540 To 2564	01AGSNY2
Reel Number:	L15401034	Stn To Stn:	1848 To 2030	File To File:	2565 To 2647	01AGSNY2
Reel Number:	L15401035	Stn To Stn:	2032 To 2196	File To File:	2648 To 2708	01AGSNY2
Reel Number:	L15401036	Stn To Stn:	5308 To 5510	File To File:	2709 To 2810	01AGSNY1
Reel Number:	L15401037	Stn To Stn:	5512 To 5714	File To File:	2811 To 2912	01AGSNY1
Reel Number:	L15401038	Stn To Stn:	5716 To 5898	File To File:	2913 To 3004	01AGSNY1
Reel Number:	L15401039	Stn To Stn:	5900 To 6036	File To File:	3005 To 3073	01AGSNY1
Reel Number:	L15401040	Stn To Stn:	6038 To 6218	File To File:	3074 To 3164	01AGSNY1
Reel Number:	L15401041	Stn To Stn:	6220 To 6366	File To File:	3165 To 3238	01AGSNY1
Reel Number:	L15401042	Stn To Stn:	6368 To 6648	File To File:	3239 To 3329	01AGSNY1
Reel Number:	L15401043	Stn To Stn:	6650 To 6570	File To File:	3330 To 3340	01AGSNY1
Reel Number:	L15401044	Stn To Stn:	6572 To 6756	File To File:	3341 To 3433	01AGSNY1
Reel Number:	L15401045	Stn To Stn:	6758 To 6942	File To File:	3434 To 3526	01AGSNY1
Reel Number:	L15401046	Stn To Stn:	6944 To 7010	File To File:	3527 To 3560	01AGSNY1
Reel Number:	L15401047	Stn To Stn:	7012 To 7196	File To File:	3561 To 3653	01AGSNY1
Reel Number:	L15401048	Stn To Stn:	7198 To 7382	File To File:	3654 To 3746	01AGSNY1
Reel Number:	L15401049	Stn To Stn:	7384 To 7532	File To File:	3747 To 3821	01AGSNY1
Reel Number:	L15401050	Stn To Stn:	7534 To 7718	File To File:	3822 To 3914	01AGSNY1
Reel Number:	L15401051	Stn To Stn:	7720 To 7904	File To File:	3915 To 4007	01AGSNY1
Reel Number:	L15401052	Stn To Stn:	7906 To 7980	File To File:	4008 To 4045	01AGSNY1
Reel Number:	L15401053	Stn To Stn:	7982 To 8146	File To File:	4046 To 4128	01AGSNY1
Reel Number:	L15401054	Stn To Stn:	8148 To 8332	File To File:	4129 To 4221	01AGSNY1
Reel Number:	L15401055	Stn To Stn:	8334 To 8456	File To File:	4222 To 4283	01AGSNY1
Reel Number:	L15401056	Stn To Stn:	8458 To 8642	File To File:	4284 To 4376	01AGSNY1
Reel Number:	L15401057	Stn To Stn:	8644 To 8748	File To File:	4377 To 4429	01AGSNY1
Reel Number:	L15401058	Stn To Stn:	8750 To 8934	File To File:	4430 To 4522	01AGSNY1
Reel Number:	L15401059	Stn To Stn:	8936 To 9120	File To File:	4523 To 4615	01AGSNY1
Reel Number:	L15401060	Stn To Stn:	9122 To 9306	File To File:	4616 To 4708	01AGSNY1
Reel Number:	L15401061	Stn To Stn:	9308 To 9492	File To File:	4709 To 4801	01AGSNY1
Reel Number:	L15401062	Stn To Stn:	9494 To 9680	File To File:	4802 To 4895	01AGSNY1
Reel Number:	L15401063	Stn To Stn:	9682 To 9870	File To File:	4896 To 4990	01AGSNY1
Reel Number:	L15401064	Stn To Stn:	9872 To 9970	File To File:	4991 To 5040	01AGSNY1
Reel Number:	L15401065	Stn To Stn:	9972 To 10160	File To File:	5041 To 5135	01AGSNY1
Reel Number:	L15401066	Stn To Stn:	10162 To 10310	File To File:	5136 To 5210	01AGSNY1
Reel Number:	L15401067	Stn To Stn:	10312 To 10492	File To File:	5211 To 5301	01AGSNY1
Reel Number:	L15401068	Stn To Stn:	10496 To 10592	File To File:	5302 To 5351	01AGSNY1

Reel Number:	L15401069	Stn To Stn:	1040 To 1044	File To File	5352 To 5386	01AGSNY3
Reel Number:	L15401070	Stn To Stn:	1040 To 1145	File To File	5387 To 5492	01AGSNY3
Reel Number:	L15401071	Stn To Stn:	1146 To 1245	File To File	5493 To 5592	01AGSNY3
Reel Number:	L15401072	Stn To Stn:	1246 To 1351	File To File	5593 To 5698	01AGSNY3
Reel Number:	L15401073	Stn To Stn:	1352 To 1457	File To File	5699 To 5804	01AGSNY3
Reel Number:	L15401074	Stn To Stn:	1458 To 1563	File To File	5805 To 5910	01AGSNY3
Reel Number:	L15401075	Stn To Stn:	1564 To 1645	File To File	5911 To 5992	01AGSNY3
Reel Number:	L15401076	Stn To Stn:	1646 To 1856	File To File	5993 To 6098	01AGSNY3
Reel Number:	L15401077	Stn To Stn:	1858 To 2036	File To File	6099 To 6204	01AGSNY3
Reel Number:	L15401078	Stn To Stn:	2037 To 2124	File To File	6205 To 6292	01AGSNY3
Reel Number:	L15401079	Stn To Stn:	2126 To 2360	File To File	6293 To 6398	01AGSNY3
Reel Number:	L15401080	Stn To Stn:	2362 To 2502	File To File	6398 To 6467	01AGSNY3
Reel Number:	L15401081	Stn To Stn:	2504 To 2722	File To File	6468 To 6576	01AGSNY3
Reel Number:	L15401082	Stn To Stn:	2724 To 2794	File To File	6577 To 6612	01AGSNY3
Reel Number:	L15401083	Stn To Stn:	1074 To 1082	File To File:	6613 To 6627	01AGSNY4
Reel Number:	L15401084	Stn To Stn:	1004 To 1224	File To File:	6628 To 6733	01AGSNY4
Reel Number:	L15401085	Stn To Stn:	1226 To 1300	File To File:	6734 To 6770	01AGSNY4
Reel Number:	L15401086	Stn To Stn:	1302 To 1516	File To File:	6771 To 6876	01AGSNY4
Reel Number:	L15401087	Stn To Stn:	1518 To 1536	File To File:	6877 To 6885	01AGSNY4

7 SAFETY MEETING REPORTS

Date :	5-08-01
Client:	AGSO
Prospect:	North Yilgarn
Area:	Leonora
State:	W.A.
Party Manager:	R.Stephenson
Safety Officer:	R. Gregg
Scribe:	R.Stephenson
Client Rep:	D. Johnstone

# Of Accidents Since Last Meeting. Vehicles	0
# Of Accidents Since Last Meeting. Employees	0
# Of Compensation Claims Since Last Meeting.	0
# Of LTI'S Since Last Meeting.	0

DETAILS:

The meeting was held at 0630 at the Trace Energy site Camp 40kms east of Leonora.

1. The crew was notified that the camp has just received a new camp first aid kit.
2. The crew was warned about the risk of walking around the camp barefoot. It was strongly suggested that at a minimum thongs be worn around camp
3. The crew was asked always ensure that hands are washed before entering diner.
4. The evacuation plan was explained to the crew, as was the destination of the emergency evacuation point.
5. Hygiene was spoken about briefly, it was explained that a minimum distance of at least 250m was the required distance from camp if one was not inclined to use the toilets provided.
6. Smoking in the crew sleepers has been banned.
7. Food scraps and rubbish are to be put in bins provided.
8. The crew asked if something could be done with the drinking water as the water we have at the moment is very highly chlorinated and they find it difficult to drink. It was suggested that bottled water be brought in.
9. Morning vehicle checks were touched on, as was daily cleaning of air cleaners on all vehicles returning from the field.
10. All vehicle faults are to be reported to the mechanics so they can be rectified.
11. Rubbish is to be brought back into camp and disposed of in the bins provided.
12. Care to be taken on the line as it is a road even though it is fairly quiet it only takes one careless driver to cause an accident which could end in harm or even death.
13. The crew was warned that from now on they will be driving into the sun to work and on the way back to camp as well, it was also noted that the road was becoming dustier and more care should be taken.
14. Passing on of information is a great work plan, but please ensure that the information passed on is correct.

Trace Personnel.

R.Stephenson, M.Bokor, W. Arnold, R. Gregg, J. Philippon, R. Barnes, N. Grainger, P. McKenzie, C. Sharam, E. Olsen, J. Turner, M. Hill- Webber, S. Goossens, A. Tanner, J. Butcher, M. Barbour, L. McHugh, L. Francis, N. Kapeller, L. Goold, M. Lilley, D. Postans, G. Steele, S. Green, D. Depooter, M. Hartlieb, J. Keane, J. Goossens, W. Waerea, S. Wood.

AGSO Personnel

D. Johnstone T. Barton.

Date:	12-08-01
Client:	AGSO
Prospect:	North Yilgarn
Area:	Laverton
State:	W.A.
Party Manager:	R.Stephenson
Safety Officer:	R. Gregg
Scribe:	R.Stephenson
Client Rep:	D. Johnstone

# Of Accidents Since Last Meeting. Vehicles	0
# Of Accidents Since Last Meeting. Employees	0
# Of Compensation Claims Since Last Meeting.	0
# Of LTI'S Since Last Meeting.	0

DETAILS:

The meeting was held at 0630 at the Camp at Laverton. The following aspects were discussed.

Crew has to be at Granny Smith's mine site at 1.30pm today to do inductions for entry into the mine site.

The crew will conduct them selves as per company standards while operating on the mine site.

All available road signs will be used while operating on the mine site.

All personnel will wear the appropriate P.P.E. while operating on the mine site.

The project is going well and we have had no accidents or incidents to date, lets keep it that way.

Russell Gregg the Safety Officer spoke to the crew about how some one had a flat tyre and destroyed the rim, rather than own up to the damage they removed a spare tyre off another vehicle and exchanged it for theirs. This action will not be condoned on the crew.

The crew is moving further east after completing the Granny Smith mine site line. We will be getting further away from any known water supplies and every body has to conserve water as much as possible.

Trace Personnel.

R.Stephenson, M.Bokor, W. Arnold, R. Gregg, J. Philippson, R. Barnes, N. Grainger, P. McKenzie, C. Sharam, E. Olsen, J. Turner, M. Hill- Webber, S. Goossens, A. Tanner, J. Butcher, M. Barbour, L. McHugh, L. Francis, N. Kapeller, L. Goold, M. Lilley, D. Postans, G. Steele, S. Green, D. Depooter, M. Hartlieb, J. Keane, J. Goossens, W. Waerea, S. Wood.

AGSO Personnel

D. Johnstone
L. Jones

Date:	26/08/2001
Client:	AGSO
Prospect:	Yilgarn Seismic Survey
Area:	East Laverton
State:	Western Australia
Party Manager:	R. Stephenson
Scribe:	R.Gregg
Client Rep:	David Johnstone

# Of Accidents Since Last Meeting. Vehicles	0
# Of Accidents Since Last Meeting. Employees	0
# Of Compensation Claims Since Last Meeting.	0
# Of LTI'S Since Last Meeting.	0

DETAILS:

The meeting was held at 0630 at Trace-Terracorp Seismic Camp, East Laverton

1. Bob Stephenson asked the crew if they could try to conserve water as, it is a 500km round trip to Laverton and back.
2. The crew were also warned of the sand dunes on the next line, the way they should be driven always in 4wd, under no circumstance is 2wd drive to be used when going over dunes.
3. It was also noted that this line has been stick raked, and that stumps and other debris may still be left on line, so be aware of punctures.
4. John Philippon also said that once a Toyota was on line it was to be put in 4wd and left in until the vehicle came off line as this is what the vehicle was made for, as many people in the past have not been doing so.
5. Alan Tanner made a query on why three people have been made to sit in the front of a Toyota when it was not fitted with a seatbelt.
6. Richard Barnes asked the question of will there be any washing done whilst in this camp, Bob Stephenson answered Richard that the camp attendant is doing washing nearly every day non-stop and that this should not be required.
7. Russell Gregg told the crew of the larger first aid box arriving and of some of the extra equipment that it carries.
8. He also mentioned that a workplace paramedic will be on crew with in a short time and also that first aid training is being looked into for some crewmembers.
9. The crew was told of two near misses that happened during the week and what to look out for.

Crew Personnel:

R.Stephenson, R.Gregg, M.Bokor, W.Arnold, R.Barnes, J.Phillipson, A.Tanner, S.Goosens, J.Goossens, L.Goold, N.Grainger, P.Mckenzie, J.Butcher, C.Sharam, L.Mchugh, M.Barbour, L.Francis, M.Lilley, G.Steele, D.Postans, N.Kapeller, D.Depooter, J.Keene, M.Hartlieb, S.Green, M.Hill-Webber, E.Olsen, J.Turner

AGSO Personnel:

D.Johnstone

8 Safety Statistics

Month:	AUGUST	
Year	2001	
Client	AGSO	
Location	North Yilgarn Seismic Survey	
Permit Area		WA
Total Personnel on Crew		30
Total Hours Worked	(a)	357.5
Total Exposure Hours	(b)	10725
No. Of Minor Injuries	(c)	0
No. Medical Treatments	(d)	1
No. of LTI's	(e)	0

Month:	SEPTEMBER	
Year	2001	
Client	AGSO	
Location	North Yilgarn Seismic Survey	
Permit Area		WA
Total Personnel on Crew		30
Total Hours Worked		80.50
(a)		
Total Exposure Hours	(b)	2415
No. Of Minor Injuries	(c)	0
No. Medical Treatments	(d)	0
No. of LTI's	(e)	0

- (a) Total Number of Hours worked in the permit area per person.
- (b) Total exposure hours = (a) x total number of personnel.
- (c) Number of injuries that required treatment by first aider/medic.
- (d) Number of injuries that required treatment by medical practitioner. Not LTI's
- (e) Number of LTI's as defined by Australian Standard 1885.

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TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 01-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager.. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.	SKIPS	PROFILES	TOTALS
Line No.....	01AGS-NY1	Rec	Rec			Profiles.....	0
Line No.....		Rec	Rec			Skips.....	0
Line No.....		Rec	Rec			Kms.....	0.000
Line No.....		Rec	Rec			Cum Kms..	0.000
Line No.....		Rec	Rec				

HOUS	Travel Time.....	Down Time -	Extra Charges
	Test Time.....	Recorder.....	Extra Hrs.....
	Recording Time...	Cables.....	Detours Charge Hrs
Other Time	Line Change.....	ATU's.....	Washdowns.....Hrs
	Recorder Move..	Detours/Terr...	Extra Other Charge..
	Detours/Terrain.	W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...	Stock Damage	Total Extra(Job).Hrs 0.00
	Other Charge...	Other.....	Processing Hrs.....
	Wait on Spread.		
	Weather Time...		
	Stock Damage..	Total Down Time..... 0.00	Total Day.....Hrs 10.00
	Safety Meeting..	Cum. Down Time (Job) 0.00	Total Hrs (Job)..... 10.00

COMMENTS: Crew mobilised from Kalgoorlie to old Murrin - Murrin town site and set up camp.
 The last two vibes were transported to Leonora

SURVEY						
Line No.....	01AGSNY1	STN.. 2350	STN.. 2750	Kms. 16.000		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.	Total Kms.....	16.000
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job).....	66.280

CHAINING						
Line No.....	01AGSNY1	STN.. 2350	STN.. 2750	Kms. 16.000		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.	Total Kms.....	16.000
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job).....	66.280

RANGING			COMMENTS :	
Line No.....	Kms			
Line No.....	Kms			
Line No.....	Kms			Total Kms..... 0.000
Line No.....	Kms			Cum. Kms. (Job)..... 0.00

LINE CLEAR				
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING		
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 2-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No..... 01AGS-NY1	Rec	Rec	6	Profiles..... 6
Line No.....	Rec	Rec		Skips..... 0
Line No.....	Rec	Rec		Kms..... 0.000
Line No.....	Rec	Rec		Cum Kms.. 0.000
Line No.....	Rec	Rec		

HOURS	Travel Time.....	1.00	Down Time -	Extra Charges
	Test Time.....		Recorder..... 2.00	Extra Hrs..... 0.00
	Recording Time...	0.50	Cables..... 1.00	Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's	Washdowns... Hrs 0.00
	Recorder Move..		Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs 0.00
	Lay Spread	5.00	Vibes..... 1.00	Processing Hrs.....
	Wait on Spread.			
	Weather Time...			
	Stock Damage..		Total Down Time..... 4.00	Total Day.....Hrs 11.00
	Safety Meeting..	0.50	Cum. Down Time (Job) 4.00	Total Hrs (Job)..... 21.00

COMMENTS: Traveled to Line 01AGS-NY1 and laid spread, Problems with recording instruments and Vibe Instruments.
 3 bad cables and 2 sets of geophones. Ran some experimental tests.

SURVEY	Line No.....	01AGS-NY1	STN..	1044	STN..	1093	Kms.	1.960	
	Line No.....		STN..	2750	STN..	3026	Kms.	11.040	
	Line No.....		STN..		STN..		Kms.		
	Line No.....		STN..		STN..		Kms.		Total Kms..... 13.000
	Line No.....		STN..		STN..		Kms.		Cum. Kms. (Job)..... 79.280

CHAINING	Line No.....	01AGS-NY1	STN..	1044	STN..	1093	Kms.	1.960	
	Line No.....		STN..	2750	STN..	3026	Kms.	11.040	
	Line No.....		STN..		STN..		Kms.		
	Line No.....		STN..		STN..		Kms.		Total Kms..... 13.000
	Line No.....		STN..		STN..		Kms.		Cum. Kms. (Job)..... 79.280

RANGING	Line No.....	Kms	COMMENTS :	Total Kms.....
	Line No.....	Kms		0.000
	Line No.....	Kms		Cum. Kms. (Job)..... 0.00

LINE CLEAR	Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms.....
	Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
	Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
	Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING	Rig No.	1	# Mtr	#Holes	Hrs	PRE LOADING	1	# Holes	# Dets	# Charges
	Rig No.	2	# Mtr	#Holes	Hrs		2	# Holes	# Dets	# Charges
	Rig No.	3	# Mtr	#Holes	Hrs		3	# Holes	# Dets	# Charges
	Rig No.	4	# Mtr	#Holes	Hrs		4	# Holes	# Dets	# Charges
	Rig No.	5	# Mtr	#Holes	Hrs		5	# Holes	# Dets	# Charges
	Rig No.	6	# Mtr	#Holes	Hrs		6	# Holes	# Dets	# Charges
	Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)		0
	Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)		0
	Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)		0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 3-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.		SKIPS	PROFILES	TOTALS	
Line No.....	01ASGNY1	Rec	992.0	Rec	1306.0	12.560	6	308	Profiles..... 308
Line No.....		Rec		Rec					Skips..... 6
Line No.....		Rec		Rec					Kms..... 12.560
Line No.....		Rec		Rec					Cum Kms.. 12.560
Line No.....		Rec		Rec					

HOURS	Travel Time.....	1.75	Down Time -	Extra Charges
	Test Time.....		Recorder.....	Extra Hrs..... 0.00
	Recording Time...	4.75	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change		ATTI's	Washdowns Hrs 0.00
	Recorder Move..	0.25	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.	0.25	W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...	2.25	Stock Damage	Total Extra(Job):Hrs 0.00
	Other Charge...	1.25	Vibes	Processing Hrs.....
	Wait on Spread.			
	Weather Time...			
	Stock Damage..		Total Down Time.....	Total Day.....Hrs 11.50
	Safety Meeting..		Cum. Down Time (Job)	Total Hrs (Job)..... 32.50

COMMENTS: Completed experimentals and commenced recording on western end of Line 01AGSNY1 in Sons Of Gawlia mine lease.
 Other Charge 1.25hrs Vibes moving from experimental to start of line. 1hr down time Vibes leaking lift ram and Valve.

SURVEY

Line No.....	01AGSNY1	STN..	992	STN..	1044	Kms.	2.080	
Line No.....		STN..	3026	STN..	3360	Kms.	13.360	
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		Total Kms..... 15.440
Line No.....		STN..		STN..		Kms.		Cum. Kms. (Job)..... 94.720

CHAINING

Line No.....	01AGSNY1	STN..	992	STN..	1044	Kms.	2.080	
Line No.....		STN..	3026	STN..	3360	Kms.	13.360	
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		Total Kms..... 15.440
Line No.....		STN..		STN..		Kms.		Cum. Kms. (Job)..... 94.720

RANGING

Line No.....	Kms	COMMENTS :
Line No.....	Kms.	
Line No.....	Kms	
Line No.....	Kms	Total Kms..... 0.000
Line No.....	Kms	Cum. Kms. (Job)..... 0.00

LINE CLEAR

Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....	Kms.Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING

RIG DATA				THE LOGGING							
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges			
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges			
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges			
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges			
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges			
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges			
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....		0	Cum #Holes(Job)		0
Total Drilled.....		0.0	Cum Drilled(Job)..		0.0	Total Dets.....		0	Cum Dets(Job)		0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges		0	Total # Charges(Job)		0

COMMENT DSS surveys moved camp from Leonora to Laverton

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 4-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.		SKIPS	PROFILES	TOTALS		
Line No.....	01AGSNY1	Rec	1306.0	Rec	1732.0	17.040	0	426	Profiles.....	426
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	17.040
Line No.....		Rec		Rec					Cum Kms..	29.600
Line No.....		Rec		Rec						

HOURS		Travel Time.....	1.25	Down Time -		Extra Charges	
		Test Time.....	0.25		Recorder.....	Extra Hrs.....	0.00
		Recording Time...	8.50		Cables.....	Detours Charge Hrs	0.00
Other Time	Line Change....				ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move..	0.50			Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.				W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...				Stock Damage	Total Extra(Job).Hrs	0.00
	QC spread	1.25			Other.....	Processing Hrs.....	
	Wait on Spread.						
	Weather Time...						
	Stock Damage..			Total Down Time.....	0.00	Total Day.....Hrs	11.75
	Safety Meeting..			Cum. Down Time (Job)	5.00	Total Hrs (Job).....	44.25

COMMENTS: QC Spread involves repairing line after native live stock damage overnight.

SURVEY							
Line No.....	01AGSNY1	STN..	3360	STN..	3800	Kms.	17.600
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	17.600
						Cum. Kms. (Job).....	112.320

CHAINING							
Line No.....	01AGSNY1	STN..	3360	STN..	3800	Kms.	17.600
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	17.600
						Cum. Kms. (Job).....	112.320

RANGING				COMMENTS :			
Line No.....		Kms					
Line No.....		Kms					
Line No.....		Kms					
Line No.....		Kms					
						Total Kms.....	0.000
						Cum. Kms. (Job).....	0.00

LINE CLEAR							
Dozer	1 Line No.....		Kms. Cut.....	Hrs.		Total Kms.....	0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.		Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.		Total Hours.....	0.00
Grader	1 Line No.....		Kms. Graded....	Hrs.		Total Hrs (Job).....	0.00

DRILLING					PRE LOADING			Elect Dets		
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges		
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges		
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges		
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges		
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges		
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges		
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....		0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..		0.0	Total Dets.....		0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges		0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 5-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.	SKIPS	PROFILES	TOTALS			
Line No.....	01AGSNY1	Rec	1732.0	Rec	2222.0	19.600	0	490	Profiles.....	490
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	19.600
Line No.....		Rec		Rec					Cum Kms..	49.200
Line No.....		Rec		Rec						

HOURS	Travel Time.....	1.00	Down Time -	Extra Charges	
	Test Time.....	0.25	Recorder.....	Extra Hrs.....	0.00
	Recording Time...	9.00	Cables.....	Detours Charge Hrs	0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move..	0.50	Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs	0.00
	Other Charge...	0.75	Other.....	Processing Hrs.....	
	Wait on Spread.				
	Weather Time...				
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 11.75
	Safety Meeting..	0.25	Cum. Down Time (Job)	5.00	Total Hrs (Job)..... 56.00

COMMENTS: Other Charge vibe maintenance

SURVEY							
Line No.....	01AGSNY1	STN..	3800	STN..	4200	Kms.	16.000
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	16.000
						Cum. Kms. (Job).....	128.320

CHAINING							
Line No.....	01AGSNY1	STN..	3800	STN..	4200	Kms.	16.000
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	16.000
						Cum. Kms. (Job).....	128.320

RANGING							
Line No.....		Kms					
Line No.....		Kms					
Line No.....		Kms					
Line No.....		Kms					
						Total Kms.....	0.000
						Cum. Kms. (Job).....	0.00

LINE CLEAR							
Dozer	1 Line No.....		Kms. Cut.....	Hrs.		Total Kms.....	0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.		Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.		Total Hours.....	0.00
Grader	1 Line No.....		Kms. Graded....	Hrs.		Total Hrs (Job).....	0.00

DRILLING					PRE LOADING				Elect Dets			
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges				
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges				
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges				
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges				
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges				
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges				
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....		0	Cum #Holes(Job)		0	
Total Drilled.....		0.0	Cum Drilled(Job)..		0.0	Total Dets.....		0	Cum Dets(Job)		0	
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges		0	Total # Charges(Job)		0	

COMMENT Line 01AGSNY1 runs down main street of the township of Laverton.

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 6-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Windy

RECORDING				Kms.	SKIPS	PROFILES	TOTALS			
Line No.....	01AGSNY1	Rec	2222.0	Rec	2726.0	20.160	0	504	Profiles.....	504
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	20.160
Line No.....		Rec		Rec					Cum Kms..	69.360
Line No.....		Rec		Rec						

HOURS	Travel Time.....	0.75	Down Time -	Extra Charges	
	Test Time.....	0.25	Recorder.....	Extra Hrs.....	0.00
	Recording Time...	9.50	Cables.....	Detours Charge Hrs	0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move..	0.50	Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs	0.00
	Download Exabyte	0.75	Other.....	Processing Hrs.....	
	Wait on Spread.				
	Weather Time...				
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 11.75
	Safety Meeting..		Cum. Down Time (Job)	5.00	Total Hrs (Job)..... 67.75

COMMENTS: Very windy day, wind coming from the north east and then changing to the south west later in the day.

SURVEY						
Line No.....	01ASGNY1	STN..	4200	STN..	4580	Kms. 15.200
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 15.200
						Cum. Kms. (Job)..... 143.520

CHAINING							
Line No.....	01AGSNY!	STN..	4200	STN..	4580	Kms.	15.200
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	Total Kms..... 15.200
Line No.....		STN..		STN..		Kms.	Cum. Kms. (Job)..... 143.520

BRANGING				COMMENTS :
Line No.....		Kms		
Line No.....		Kms		
Line No.....		Kms		
Line No.....		Kms		
				Total Kms..... 0.000
				Cum. Kms. (Job)..... 0.00

LINE CLEAR				
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....	Kms.Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING			Elect Dets	
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges	
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..		0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 7-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING			Kms.		SKIPS	PROFILES	TOTALS			
Line No.....	01AGSNY1	Rec	2726.0	Rec	3240.0	20.560	0	514	Profiles.....	514
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	20.560
Line No.....		Rec		Rec					Cum Kms..	89.920
Line No.....		Rec		Rec						

HOURS	Travel Time.....	1.00	Down Time -	Extra Charges
	Test Time.....	0.25	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	9.00	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	0.50	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.		W /on Spread.	Total Extra.....Hrs 0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs 0.00
	QC Spread	0.75	Vibes 0.50	Processing Hrs.....
	Wait on Spread.			
	Weather Time...			
	Stock Damage..		Total Down Time..... 0.50	Total Day.....Hrs 12.00
Safety Meeting..		Cum. Down Time (Job) 5.50	Total Hrs (Job)..... 79.75	

COMMENTS: Vibe Down time leaking lift ram, no oil spilt on site.

SURVEY							
Line No.....	01AGSNY1	STN..	4580	STN..	5000	Kms.	16.800
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	16.800
						Cum. Kms. (Job).....	160.320

CHAINING							
Line No.....	01AGSNY1	STN..	4580	STN..	5000	Kms.	16.800
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	16.800
						Cum. Kms. (Job).....	160.320

RANGING							
Line No.....		Kms					
Line No.....		Kms					
Line No.....		Kms					
Line No.....		Kms					
						Total Kms.....	0.000
						Cum. Kms. (Job).....	0.00

LINE CLEAR							
Dozer	1 Line No.....		Kms. Cut.....	Hrs.		Total Kms.....	0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.		Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.		Total Hours.....	0.00
Grader	1 Line No.....		Kms.Graded....	Hrs.		Total Hrs (Job).....	0.00

DRILLING						PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs		1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs		2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs		3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs		4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs		5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs		6	# Holes	# Dets	# Charges
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0		Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0		Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0		Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 8-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.	SKIPS	PROFILES	TOTALS			
Line No.....	01AGSNY1	Rec	3240.0	Rec	3750.0	20.400	0	510	Profiles.....	510
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	20.400
Line No.....		Rec		Rec					Cum Kms..	110.320
Line No.....		Rec		Rec						

HOURS		Travel Time.....	0.75	Down Time -		Extra Charges	
		Test Time.....	0.25		Recorder.....	Extra Hrs.....	0.00
		Recording Time...	8.75		Cables.....	Detours Charge Hrs	0.00
Other Time	Line Change.....				ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move..	0.50			Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.				W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...				Stock Damage	Total Extra(Job).Hrs	0.00
	QC Spread.....	0.25			Vibes 0.50	Processing Hrs.....	0.00
	Wait on Spread.						
	Weather Time...						
	Stock Damage..			Total Down Time.....	0.50	Total Day.....Hrs	11.00
	Safety Meeting..			Cum. Down Time (Job)	6.00	Total Hrs (Job).....	90.75

COMMENTS: Crew moved camp from Murrin - Murrin to five Km west of Laverton.

SURVEY						
Line No.....	01GSNY1	STN..	5000	STN..	5426	Kms. 17.040
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 17.040
						Cum. Kms. (Job)..... 177.360

CHAINING						
Line No.....	01AGSNY1	STN..	5000	STN..	5426	Kms. 17.040
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 17.040
						Cum. Kms. (Job)..... 177.360

RANGING		COMMENTS :		
Line No.....	Kms			
Line No.....	Kms			
Line No.....	Kms			
Line No.....	Kms			
				Total Kms..... 0.000
				Cum. Kms. (Job)..... 0.00

LINE CLEAR				Kms. Cut.....	Hrs.	Total Kms.....	0.000
Dozer	1 Line No.....			Kms. Cut.....	Hrs.	Cum. Kms. (Job).....	0.000
Dozer	2 Line No.....			Kms. Cut.....	Hrs.	Total Hours.....	0.00
Dozer	3 Line No.....			Kms. Cut.....	Hrs.	Total Hrs (Job).....	0.00
Grader	1 Line No.....			Kms. Graded....	Hrs.		

DRILLING					PRE LOADING			Elect Dets	
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges	
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..		0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 9-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.	SKIPS	PROFILES	TOTALS	
Line No.....	01AGSNY1	Rec	3750.0	Rec 4270.0	20.800	17	503	Profiles..... 503
Line No.....		Rec		Rec				Skips..... 17
Line No.....		Rec		Rec				Kms..... 20.800
Line No.....		Rec		Rec				Cum Kms.. 193.360
Line No.....		Rec		Rec				

HOURS	Travel Time.....	0.50	Down Time -	Extra Charges	
	Test Time.....	0.25	Recorder.....	Extra Hrs.....	0.00
	Recording Time...	9.00	Cables.....	Detours Charge Hrs	0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move..	0.50	Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs	0.00
	QC Spread	0.75	Other.....	Processing Hrs.....	0.00
	Wait on Spread.				
	Weather Time...				
	Stock Damage..		Total Down Time.....	Total Day.....Hrs	11.00
	Safety Meeting..		Cum. Down Time (Job)	Total Hrs (Job).....	135.25

COMMENTS: Line 01AGSNY1 recorded through the township of Laverton, Line ran down the main street of the town.

SURVEY					
Line No.....	01AGSNY2	STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job)..... 177.360

CHAINING					
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job)..... 177.360

RANGING				COMMENTS :	
Line No.....		Kms			
Line No.....		Kms			
Line No.....		Kms			Total Kms..... 0.000
Line No.....		Kms			Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....		Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....		Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING			Elect Dets	
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges	
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..		0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT 4hrs Mine site induction, Drove line with Generative Geologist Justin Baulch, Ran control survey

TRACE ENERGY SERVICES DAILY PRODUCTION REPORT

CREW 401

DATE..... 10-Aug-01

Client.....	AGSO	Party Manager.	Bob Stephenson
Survey Name.	Yilgarn	Client Rep.....	David Johnstone
Area.....	Leonora / Laverton	Weather.....	Fine
State.....	WA		

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No..... 01AGSNY1	Rec 4270.0	Rec 4788.0	20.720	0
Line No.....	Rec	Rec		518
Line No.....	Rec	Rec		Profiles..... 518
Line No.....	Rec	Rec		Skips..... 0
Line No.....	Rec	Rec		Kms..... 20.720
Line No.....	Rec	Rec		Cum Kms.. 214.080

HOURS	Travel Time.....	1.00	Down Time -	Extra Charges
	Test Time.....	0.25	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	9.25	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..		Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs 0.00
	Experimental....		Stock Damage	Total Extra(Job).Hrs 0.00
	QC Spread	0.50	Other.....	Processing Hrs..... 0.00
	Wait on Spread.			
	Weather Time...			
	Stock Damage..		Total Down Time.....	0.00
	Safety Meeting..		Cum. Down Time (Job)	6.00
			Total Day.....Hrs	11.00
			Total Hrs (Job).....	146.25

COMMENTS: Good day no problems Data good.

SURVEY	STN..	Kms.	Granny Smith's Line
Line No..... 01AGSNY2	1000	STN.. 1575	Kms. 23.000
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
			Total Kms..... 23.000
			Cum. Kms. (Job)..... 200.360

CHAINING	STN..	Kms.	Granny Smith's Line
Line No..... 01AGSNY2	1000	STN.. 1575	Kms. 23.000
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
			Total Kms..... 23.000
			Cum. Kms. (Job)..... 200.360

RANGING	Kms	Total Kms.....
Line No.....	Kms	0.000
Line No.....	Kms	
Line No.....	Kms	
Line No.....	Kms	
		Cum. Kms. (Job)..... 0.00

LINE CLEAR	Kms. Cut.....	Hrs.	Total Kms.....
Dozer 1 Line No.....			0.000
Dozer 2 Line No.....			Cum. Kms. (Job)..... 0.000
Dozer 3 Line No.....			Total Hours..... 0.00
Grader 1 Line No.....	Kms.Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING	# Mtr	#Holes	Hrs	PRE LOADING	# Holes	# Dets	# Charges
Rig No. 1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges
Rig No. 2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges
Rig No. 3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges
Rig No. 4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges
Rig No. 5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges
Rig No. 6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT Long tiring day for survey crew to tyr and get ahead of recording crew.

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 11-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Leonora / Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.	SKIPS	PROFILES	TOTALS
Line No.....	01AGSNY1	Rec 4788.0	Rec 5306.0	20.720	0	518	Profiles..... 518
Line No.....		Rec	Rec				Skips..... 0
Line No.....		Rec	Rec				Kms..... 20.720
Line No.....		Rec	Rec				Cum Kms.. 172.560
Line No.....		Rec	Rec				

HOURS	Travel Time.....	1.00	Down Time -	Extra Charges
	Test Time.....	0.25	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	9.00	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	0.50	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs 0.00
	QC Spread	0.75	Other.....	Processing Hrs..... 0.00
	Wait on Spread.			
	Weather Time...			
	Stock Damage..		Total Down Time.....	Total Day.....Hrs 11.50
	Safety Meeting..		Cum. Down Time (Job) 6.00	Total Hrs (Job)..... 124.25

COMMENTS: Finished recording on Line 01AGSNY1 for now, will pick up spread tomorrow morning and move to line 01AGSNY2 at Granny Smith's Mine. On completion of this line we will move back onto line 01AGSNY1.

SURVEY						
Line No.....	01AGSNY2	STN.. 1575	STN.. 2100	Kms. 21.000	Granny Smith's Line	
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.	Total Kms.....	21.000
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job).....	221.360

CHAINING						
Line No.....	01AGSNY2	STN.. 1575	STN.. 2100	Kms. 21.000	Granny Smith's Line	
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.	Total Kms.....	21.000
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job).....	221.360

RANGING	COMMENTS :		
Line No.....	Kms		
Line No.....	Kms		
Line No.....	Kms		Total Kms..... 0.000
Line No.....	Kms		Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms.....	0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours.....	0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job).....	0.00

DRILLING					PRE LOADING		
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 12-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Granny Smith Mine
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No..... Rec Rec			Profiles.....	0
Line No..... Rec Rec			Skips.....	0
Line No..... Rec Rec			Kms.....	0.000
Line No..... Rec Rec			Cum Kms..	172.560
Line No..... Rec Rec				

HOURS	Travel Time..... 2.00	Down Time -	Extra Charges	
	Test Time.....	Recorder.....	Extra Hrs.....	0.00
	Recording Time...	Cables.....	Detours Charge Hrs	0.00
Other Time	Line Change.....	ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move..	Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.	W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...	Stock Damage	Total Extra(Job).Hrs	0.00
	Other 4.00	Other.....	Processing Hrs.....	0.00
	Pick up Spread... 4.00			
	Weather Time...			
	Stock Damage..	Total Down Time..... 0.00	Total Day.....Hrs	10.00
	Safety Meeting..	Cum. Down Time (Job) 6.00	Total Hrs - (Job).....	134.25

COMMENTS: Travel to Line 01AGSNy1 Pick up spread and return to camp. Left camp and went to Granny Smith Mine site and did induction 4hrs.
 Granny Smith Charge 10Hrs.

SURVEY								
Line No.....	01AGSNY2	STN..	2100	STN..	2746	Kms.	25.840	
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		Total Kms..... 25.840
Line No.....		STN..		STN..		Kms.		Cum. Kms. (Job)..... 247.200

CHAINING								
Line No.....	01AGSNY2	STN..	2100	STN..	2746	Kms.	25.840	
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		Total Kms..... 25.840
Line No.....		STN..		STN..		Kms.		Cum. Kms. (Job)..... 247.200

CRANING	COMMENTS :							
Line No.....		Kms						
Line No.....		Kms						
Line No.....		Kms						Total Kms..... 0.000
Line No.....		Kms						Cum. Kms. (Job)..... 0.00

LINE CLEAR								
Dozer	1 Line No.....			Kms. Cut.....	Hrs.		Total Kms.....	0.000
Dozer	2 Line No.....			Kms. Cut.....	Hrs.		Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....			Kms. Cut.....	Hrs.		Total Hours.....	0.00
Grader	1 Line No.....			Kms.Graded....	Hrs.		Total Hrs (Job).....	0.00

DRILLING					PRE LOADING			Elect Dets	
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges	
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....		0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....		0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges		0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 13-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Granny Smith Mine
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Windy

RECORDING				Kms.	SKIPS	PROFILES	TOTALS			
Line No.....	01AGSNY2	Rec	1000.0	Rec	1380.0	15.200	0	380	Profiles.....	380
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	15.200
Line No.....		Rec		Rec					Cum Kms..	187.760
Line No.....		Rec		Rec						

HOURS	Travel Time.....	1.00	Down Time -	Extra Charges
	Test Time.....		Recorder.....	Extra Hrs..... 0.00
	Recording Time...	6.75	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..		Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...	0.25	Stock Damage	Total Extra(Job).Hrs 0.00
	Other Charge...		Other.....	Processing Hrs..... 0.00
	Lay & QC Spread..	4.00		
	Weather Time...			
	Stock Damage..		Total Down Time..... 0.00	Total Day.....Hrs 12.00
	Safety Meeting..		Cum. Down Time (Job) 6.00	Total Hrs (Job)..... 146.25

COMMENTS: Traveled to line 01AGSNY2 and commenced to lay spread from the eastern end of the line. Ran experimentals on the eastern end of the line. Commenced recording at 11.15am at station 1000.

SURVEY							
Line No.....	01AGSNY1	STN..	5426	STN..	5550	Kms.	4.960
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	4.960
						Cum. Kms. (Job).....	252.160

CHAINING							
Line No.....	01AGSNY1	STN..	5426	STN..	5550	Kms.	4.960
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	Total Kms..... 4.960
Line No.....		STN..		STN..		Kms.	Cum. Kms. (Job)..... 252.160

RANGING				COMMENTS :
Line No.....		Kms		
Line No.....		Kms		
Line No.....		Kms		
Line No.....		Kms		
			Total Kms.....	0.000
			Cum. Kms. (Job).....	0.00

LINE CLEAR					
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms.....	0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours.....	0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job).....	0.00

DRILLING					PRE LOADING			Elect Dets	
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges	
Total # Mtr.....		0.0 Cum # Mtr(Job).....		0.0	Total # Holes.....		0	Cum #Holes(Job)	0
Total Drilled.....		0.0 Cum Drilled(Job)..		0.0	Total Dets.....		0	Cum Dets(Job)	0
Total Hrs.....		0.0 Total # Hrs(Job).....		0.0	Total Charges		0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 14-Aug-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Granny Smith Mine
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Windy

RECORDING				Kms.	SKIPS	PROFILES	TOTALS
Line No.....	01AGSNY2	Rec	1380.0	Rec 1846.0	18.640	466	Profiles..... 466
Line No.....		Rec		Rec			Skips..... 0
Line No.....		Rec		Rec			Kms..... 18.640
Line No.....		Rec		Rec			Cum Kms.. 206.400
Line No.....		Rec		Rec			

HOURS	Travel Time.....	1.50	Down Time -	Extra Charges
	Test Time.....	0.25	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	7.00	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	1.25	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs 0.00
	QC Spread	0.75	Other.....	Processing Hrs..... 0.00
	Wait on Spread.			
	Weather Time...			
	Stock Damage..		Total Down Time.....	Total Day.....Hrs 10.75
	Safety Meeting..		Cum. Down Time (Job)	Total Hrs (Job)..... 157.00

COMMENTS: Windy conditions all day. Line along power line and Haul road.

SURVEY						
Line No.....	01AGSNY1	STN..	5550	STN..	6000	Kms. 18.000
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 18.000
						Cum. Kms. (Job)..... 270.160

CHAINING						
Line No.....	01AGSNY1	STN..	5550	STN..	6000	Kms. 18.000
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 18.000
						Cum. Kms. (Job)..... 270.160

RANGING			COMMENTS :		
Line No.....		Kms			
Line No.....		Kms			
Line No.....		Kms			
Line No.....		Kms			
					Total Kms..... 0.000
					Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....		Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....		Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING		
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job) 0
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job) 0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job) 0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401		DATE..... 15-Aug-01
Client..... AGSO	Party Manager. Bob Stephenson	
Survey Name. Yilgarn	Client Rep..... David Johnstone	
Area..... Granny Smith Mine	Weather..... Overcast / Windy	
State..... WA		

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No..... 01AGSNY2 Rec 1846.0 Rec 2196.0	14.000	28	320	Profiles..... 320
Line No..... Rec Rec				Skips..... 28
Line No..... Rec Rec				Kms..... 14.000
Line No..... Rec Rec				Cum Kms.. 220.400
Line No..... Rec Rec				

COURS	Travel Time.....	2.00	Down Time -		Extra Charges
	Test Time.....	0.25		Recorder.....	Extra Hrs..... 0.00
	Recording Time...	5.00		Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change			ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	0.50		Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.			W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...			Stock Damage	Total Extra(Job).Hrs 0.00
	Other Charge...			Other.....	Processing Hrs..... 0.00
	Wait on Spread.	4.00			
	Weather Time...				
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 11.75
	Safety Meeting..		Cum. Down Time (Job)	6.00	Total Hrs (Job)..... 168.75

COMMENTS: Delay laying spread through Wallaby Mine pit, Completed recording line 01AGSNY2 to station 2196.

Total length of line 01AGSNY2 recorded = 47.84km.

SURVEY	STN..	STN..	Kms.	TOTALS
Line No..... 01AGSNY1	6000	6450	18.000	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 18.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 288.160

THAINING	STN..	STN..	Kms.	TOTALS
Line No..... 01AGSNY1	6000	6450	18.000	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 18.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 288.160

RANGING	Kms	TOTALS
Line No.....	Kms	
Line No.....	Kms	
Line No.....	Kms	Total Kms..... 0.000
Line No.....	Kms	Cum. Kms. (Job)..... 0.00

LINE CLEAR	Kms. Cut.....	Hrs.	TOTALS
Dozer 1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer 2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer 3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader 1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING	# Mtr	#Holes	Hrs	PRE LOADING	# Dets	# Charges
Rig No. 1	# Mtr	#Holes	Hrs	1	# Holes	# Charges
Rig No. 2	# Mtr	#Holes	Hrs	2	# Holes	# Charges
Rig No. 3	# Mtr	#Holes	Hrs	3	# Holes	# Charges
Rig No. 4	# Mtr	#Holes	Hrs	4	# Holes	# Charges
Rig No. 5	# Mtr	#Holes	Hrs	5	# Holes	# Charges
Rig No. 6	# Mtr	#Holes	Hrs	6	# Holes	# Charges
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job) 0
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job) 0
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job) 0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401		DATE..... 16-Aug-01
Client.....	AGSO	Party Manager. Bob Stephenson
Survey Name.	Yilgarn	Client Rep..... David Johnstone
Area.....	Laverton	Weather..... Fine / windy
State.....	WA	

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No..... 01AGSNY1	Rec 5306.0	Rec 5510.0	8.160	0
Line No.....	Rec	Rec		204
Line No.....	Rec	Rec		Profiles..... 204
Line No.....	Rec	Rec		Skips..... 0
Line No.....	Rec	Rec		Kms..... 8.160
Line No.....	Rec	Rec		Cum Kms.. 228.560

HOURS	Travel Time.....	2.00	Down Time -		Extra Charges
	Test Time.....	0.25			Extra Hrs..... 0.00
	Recording Time...	3.50			Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....		Washdowns.....Hrs 0.00
	Recorder Move..		Detours/Terr...		Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.		Total Extra.....Hrs 0.00
	Experimental...		Stock Damage		Total Extra(Job).Hrs 0.00
	Lay Spread	2.50	Other.....		Processing Hrs..... 0.00
	Pick up Spread	3.25			
	Weather Time...				
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 11.50
	Safety Meeting..		Cum. Down Time (Job)	6.00	Total Hrs (Job)..... 180.25

COMMENTS: Pick up spread from line 01AGSNY2 and relay spread on line 01AGSNY1 and commence recording east.

SURVEY	STN..	STN..	Kms.	Total Kms.....
Line No..... 01AGSNY1	6450	6920	18.800	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	18.800
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 306.960

CHAINING	STN..	STN..	Kms.	Total Kms.....
Line No..... 01AGSNY1	6450	6920	18.800	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	18.800
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 306.960

RANGING	Kms	Total Kms.....
Line No.....	Kms	0.000
Line No.....	Kms	
Line No.....	Kms	Cum. Kms. (Job)..... 0.00

LINE CLEAR	Kms. Cut.....	Hrs.	Total Kms.....
Dozer 1 Line No.....			0.000
Dozer 2 Line No.....			Cum. Kms. (Job)..... 0.000
Dozer 3 Line No.....			Total Hours..... 0.00
Grader 1 Line No.....			Total Hrs (Job)..... 0.00

DRILLING	# Mtr	#Holes	Hrs	Total # Mtr.....
Rig No. 1				0.0
Rig No. 2				Cum # Mtr(Job).....
Rig No. 3				0.0
Rig No. 4				Cum Drilled(Job)..
Rig No. 5				0.0
Rig No. 6				Total # Hrs(Job).....
Total # Mtr.....	0.0			0.0
Total Drilled.....	0.0			0.0
Total Hrs.....	0.0			0.0

PRE LOADING	# Holes	# Dets	# Charges	Total # Holes.....
1				0
2				Cum #Holes(Job)
3				0
4				Cum Dets(Job)
5				0
6				Total # Charges(Job)
Total # Holes.....	0			0
Total Dets.....	0			0
Total Charges	0			0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401 DATE..... 17-Aug-01

Client..... AGSO	Party Manager. Bob Stephenson
Survey Name. Yilgarn	Client Rep..... David Johnstone
Area..... Laverton	Weather..... Fine
State..... WA	

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No..... 01AGSNY1 Rec 5510.0 Rec 6036.0	21.040	0	524	Profiles..... 524
Line No..... Rec Rec				Skips..... 0
Line No..... Rec Rec				Kms..... 21.040
Line No..... Rec Rec				Cum Kms.. 249.600
Line No..... Rec Rec				

OURS	Travel Time..... 1.50	Down Time -	Extra Charges
	Test Time..... 0.25	Recorder.....	Extra Hrs..... 0.00
	Recording Time... 8.25	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change....	ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move.. 0.75	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.	W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...	Stock Damage	Total Extra(Job).Hrs 0.00
	QC Spread 0.75	Other.....	Processing Hrs..... 0.00
	Wait on Spread.		
	Weather Time...		
	Stock Damage..	Total Down Time..... 0.00	Total Day.....Hrs 11.50
	Safety Meeting..	Cum. Down Time (Job) 6.00	Total Hrs (Job)..... 191.75

COMMENTS: Crew moved camp from five km west of Laverton to White Cliffs Station, 65km east of Laverton.

SURVEY	STN..	STN..	Kms.	Total Kms.....
Line No..... 01AGSNY1	6920	7350	17.200	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 17.200
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 324.160

CHAINING	STN..	STN..	Kms.	Total Kms.....
Line No..... 01AGSNY1	6920	7350	17.200	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 17.200
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 324.160

RANGING	Kms	Total Kms.....
Line No.....	Kms	
Line No.....	Kms	
Line No.....	Kms	Total Kms..... 0.000
Line No.....	Kms	Cum. Kms. (Job)..... 0.00

LINE CLEAR	Kms. Cut.....	Hrs.	Total Kms.....
Dozer 1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer 2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer 3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader 1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING	# Mtr	#Holes	Hrs	Total # Mtr.....	Total Drilled.....	Total Hrs.....
Rig No. 1	# Mtr	#Holes	Hrs	0.0	0.0	0.0
Rig No. 2	# Mtr	#Holes	Hrs	0.0	0.0	0.0
Rig No. 3	# Mtr	#Holes	Hrs	0.0	0.0	0.0
Rig No. 4	# Mtr	#Holes	Hrs	0.0	0.0	0.0
Rig No. 5	# Mtr	#Holes	Hrs	0.0	0.0	0.0
Rig No. 6	# Mtr	#Holes	Hrs	0.0	0.0	0.0
				Cum # Mtr(Job).....	Cum Drilled(Job)..	Total # Hrs(Job).....

PRE LOADING	# Holes	# Dets	# Charges	Total # Holes.....	Total Dets.....	Total Charges
1	# Holes	# Dets	# Charges	0	0	0
2	# Holes	# Dets	# Charges	0	0	0
3	# Holes	# Dets	# Charges	0	0	0
4	# Holes	# Dets	# Charges	0	0	0
5	# Holes	# Dets	# Charges	0	0	0
6	# Holes	# Dets	# Charges	0	0	0
				Cum #Holes(Job)	Cum Dets(Job)	Total # Charges(Job)

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401		DATE..... 18-Aug-01
Client..... AGSO	Party Manager. Bob Stephenson	
Survey Name. Yilgarn	Client Rep..... David Johnstone	
Area..... Laverton	Weather..... Fine	
State..... WA		

RECORDING				Kms.	SKIPS	PROFILES	TOTALS	
Line No.....	01AGSNY1	Rec	6036.0	Rec 6570.0	21.360	0	534	Profiles..... 534
Line No.....		Rec		Rec				Skips..... 0
Line No.....		Rec		Rec				Kms..... 21.360
Line No.....		Rec		Rec				Cum Kms.. 270.960
Line No.....		Rec		Rec				

OURS		Travel Time.....	1.50	Down Time -		Extra Charges	
		Test Time.....	0.25		Recorder.....	Extra Hrs.....	0.00
		Recording Time...	8.00		Cables.....	Detours Charge Hrs	0.00
Other Time		Line Change....			ATU's.....	Washdowns.....Hrs	0.00
		Recorder Move..	0.50		Detours/Terr...	Extra Other Charge..	0.00
		Detours/Terrain.			W / on Spread.	Total Extra.....Hrs	0.00
		Experimental...			Stock Damage	Total Extra(Job).Hrs	0.00
		QC Spread	1.00		Other.....	Processing Hrs.....	0.00
		Wait on Spread.					
		Weather Time...					
		Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs	11.25
		Safety Meeting..		Cum. Down Time (Job)	6.00	Total Hrs (Job).....	203.00

COMMENTS: Continue recording on line 01AGSNY1, QC Spread for one hour many bad plants from geophones pulled out by wild life.

SURVEY						
Line No.....	01AGSNY1	STN..	7350	STN..	7820	Kms. 18.800
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 18.800
						Cum. Kms. (Job)..... 342.960

TRAINING						
Line No.....	01AGSNY1	STN..	7350	STN..	7820	Kms. 18.800
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 18.800
						Cum. Kms. (Job)..... 342.960

RANGING		COMMENTS:		
Line No.....	Kms			
Line No.....	Kms			
Line No.....	Kms			Total Kms..... 0.000
Line No.....	Kms			Cum. Kms. (Job)..... 0.00

LINE CLEAR				Kms. Cut.....	Hrs.	Total Kms.....	
Dozer	1 Line No.....			Kms. Cut.....	Hrs.	Cum. Kms. (Job).....	0.000
Dozer	2 Line No.....			Kms. Cut.....	Hrs.	Total Hours.....	0.00
Dozer	3 Line No.....			Kms. Cut.....	Hrs.	Total Hrs (Job).....	0.00
Grader	1 Line No.....			Kms.Graded....	Hrs.		

DRILLING					PRE LOADING			Elect Dets		
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets		# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets		# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets		# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets		# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets		# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets		# Charges	
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....	0	Cum #Holes(Job)		0
Total Drilled.....		0.0	Cum Drilled(Job)...		0.0	Total Dets.....	0	Cum Dets(Job)		0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges	0	Total # Charges(Job)		0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401	DATE..... 19-Aug-01
Client..... AGSO	Party Manager. Bob Stephenson
Survey Name. Yilgarn	Client Rep..... David Johnstone
Area..... Laverton	Weather..... Fine
State..... WA	

RECORDING				Kms.	SKIPS	PROFILES	TOTALS			
Line No.....	01AGSNY1	Rec	6570.0	Rec	7010.0	17.600	0	440	Profiles.....	440
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	17.600
Line No.....		Rec		Rec					Cum Kms..	288.560
Line No.....		Rec		Rec						

OURS	Travel Time.....	1.50	Down Time -	Extra Charges		
	Test Time.....	0.25		Recorder.....	Extra Hrs.....	0.00
	Recording Time...	6.75		Cables.....	Detours Charge Hrs	0.00
Other Time	Line Change.....			ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move..	1.00		Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.			W/ on Spread.	Total Extra.....Hrs	0.00
	Experimental...			Stock Damage	Total Extra(Job).Hrs	0.00
	QC Spread	0.75		Other.....	Processing Hrs.....	0.00
	Wait on Spread.	1.00				
	Weather Time...					
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs	11.50
	Safety Meeting..	0.25	Cum. Down Time (Job)	6.00	Total Hrs (Job).....	214.50

COMMENTS: Crew moved camp to Yamarna, difficulty moving spread from back of spread to front of spread due to narrow road. Vibes had to stop production to allow vehicles to pass. Crew now camped at Yamarna station for next four days.

SURVEY						
Line No.....	01AGSNY1	STN..	7820	STN..	8270	Kms. 18.000
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 18.000
						Cum. Kms. (Job)..... 360.960

CHAINING						
Line No.....	01AGSNY1	STN..	7820	STN..	8270	Kms. 18.000
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 18.000
						Cum. Kms. (Job)..... 360.960

RANGING			COMMENTS :			
Line No.....		Kms				
Line No.....		Kms				
Line No.....		Kms				Total Kms..... 0.000
Line No.....		Kms				Cum. Kms. (Job)..... 0.00

LINE CLEAR						
Dozer	1 Line No.....		Kms. Cut.....	Hrs.		Total Kms..... 0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.		Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.		Total Hours..... 0.00
Grader	1 Line No.....		Kms.Graded....	Hrs.		Total Hrs (Job)..... 0.00

DRILLING						PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs		1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs		2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs		3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs		4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs		5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs		6	# Holes	# Dets	# Charges
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0		Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)...	0.0		Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0		Total Charges	0	Total # Charges(Job)	0

COMMENT

DAILY PRODUCTION REPORT

DATE..... 20-Aug-01

Party Manager.	Bob Stephenson
Client Rep.....	David Johnstone
Weather.....	Fine

RECORDING					Kms.	SKIPS	PROFILES	TOTALS		
Line No.....	01AGSNY1	Rec	7010.0	Rec	7532.0	20.880	0	522	Profiles.....	522
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	20.880
Line No.....		Rec		Rec					Cum Kms..	309.440
Line No.....		Rec		Rec						

HOURS		Down Time -		Extra Charges	
	Travel Time..... 1.00		Recorder.....	Extra Hrs.....	0.00
	Test Time..... 0.25		Cables.....	Detours Charge Hrs	0.00
	Recording Time... 7.50		ATU's.....	Washdowns....Hrs	0.00
Other Time	Line Change.....		Detours/Terr...	Extra Other Charge..	0.00
	Recorder Move.. 1.75		W / on Spread.	Total Extra.....Hrs	0.00
	Detours/Terrain.		Stock Damage	Total Extra(Job).Hrs	0.00
	Experimental...		Other.....	Processing Hrs.....	0.00
	QC Spread 0.75				
	Wait on Spread.				
	Weather Time...				
	Stock Damage..	Total Down Time.....	0.00	Total Day.....Hrs	11.25
	Safety Meeting..	Cum. Down Time (Job)	6.00	Total Hrs (Job).....	225.75

COMMENTS: AGSO received conformation from the WA Mines and Energy of the aboriginal clearance for the line south east of Yeo.

SURVEY.							
Line No.....	01AGSNY1	STN..	8270	STN..	8370	Kms.	4.000
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	Total Kms..... 4.000
Line No.....		STN..		STN..		Kms.	Cum. Kms. (Job)..... 364.960

CHAINING							
Line No.....	01AGSNY1	STN..	8270	STN..	8370	Kms.	4.000
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	4.000
						Cum. Kms. (Job).....	364.960

RANGING		COMMENTS :	
Job No.....	Kms		
Job No.....	Kms		
Line No.....	Kms		Total Kms..... 0.000
Job No.....	Kms		Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms.....	0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours.....	0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job).....	0.00

DRILLING					PRE LOADING			Elect Dets	
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges	
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0	
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0	
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0	

Survey move camp to Point Sunday, Run Control Pm17,Pm18, Pt Sunday to Pm 20
Supply run to Laverton , Food,water,Star pickets, Fuel Etc (Maree)

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401	DATE..... 21-Aug-01
Client..... AGSO	Party Manager. Bob Stephenson
Survey Name. Yilgarn	Client Rep..... David Johnstone
Area..... Laverton	Weather..... Fine
State..... WA	

RECORDING				Kms.	SKIPS	PROFILES	TOTALS
Line No.....	01AGSNY1	Rec 7532.0	Rec 7980.0	17.920	0	448	Profiles..... 448
Line No.....		Rec	Rec				Skips..... 0
Line No.....		Rec	Rec				Kms..... 17.920
Line No.....		Rec	Rec				Cum Kms.. 327.360
Line No.....		Rec	Rec				

DURS	Travel Time.....	1.00	Down Time -		Extra Charges
	Test Time.....	0.25		Recorder.....	Extra Hrs..... 0.00
	Recording Time...	8.00		Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....			ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	1.25		Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.			W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...			Stock Damage	Total Extra(Job).Hrs 0.00
	QC Spread	1.25		Other.....	Processing Hrs..... 0.00
	Wait on Spread.				
	Weather Time...				
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 11.75
	Safety Meeting..		Cum. Down Time (Job)	6.00	Total Hrs (Job)..... 237.50

COMMENTS: From station 7604 line becomes very narrow, difficult to pass vibes with spread and line very rough in places and is getting rougher as vibes have to shake in the middle of the line. The line will need grading before we can move camp along it.

SURVEY					
Line No.....	01AGSNY1	STN.. 8370	STN.. 8900	Kms. 21.200	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	Total Kms..... 21.200
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job)..... 386.160

CHAINING					
Line No.....	01AGSNY1	STN.. 8370	STN.. 8900	Kms. 21.200	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	Total Kms..... 21.200
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job)..... 386.160

RANGING			COMMENTS :		
Line No.....		Kms			
Line No.....		Kms			
Line No.....		Kms			Total Kms..... 0.000
Line No.....		Kms			Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....		Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....		Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING		
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401

DATE..... 22-Aug-01

Client..... AGSO/GSWA
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING					Kms.	SKIPS	PROFILES	TOTALS		
Line No.....	01AGSNY1	Rec	7980.0	Rec	8456.0	19.040	0	476	Profiles.....	476
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	19.040
Line No.....		Rec		Rec					Cum Kms..	346.400
Line No.....		Rec		Rec						

OURS	Travel Time.....	1.50	Down Time -		Extra Charges	
	Test Time.....	0.25	Recorder.....		Extra Hrs.....	0.00
	Recording Time...	8.50	Cables.....		Detours Charge Hrs	0.00
ther Time	Line Change.....		ATU's.....		Washdowns.....Hrs	0.00
	Recorder Move..	1.00	Detours/Terr...		Extra Other Charge..	0.00
	Detours/Terrain.		W / on Spread.		Total Extra.....Hrs	0.00
	Experimental...		Stock Damage		Total Extra(Job).Hrs	0.00
	QC Spread	0.75	Other.....		Processing Hrs.....	0.00
	Wait on Spread.	0.50				
	Weather Time...					
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs	12.50
	Safety Meeting..		Cum. Down Time (Job)	6.00	Total Hrs (Job).....	250.00

COMMENTS: Line 01AGSNY1 has become very narrow and very rough, it is difficult to transport spread from the back to the front.
 The line is getting rougher as more traffic drives over line.
 Start of GSWA charge on line 01AGSNY1

SURVEY						
Line No.....	01AGSNY1	STN..	8900	STN..	9380	Kms. 19.200
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 19.200
						Cum. Kms. (Job)..... 405.360

CHAINING						
Line No.....	01AGSNY1	STN..		STN..		Kms.
Line No.....		STN..	8900	STN..	9380	Kms. 19.200
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 19.200
						Cum. Kms. (Job)..... 405.360

RANGING						COMMENTS :
Line No.....		Kms				
Line No.....		Kms				
Line No.....		Kms				Total Kms..... 0.000
Line No.....		Kms				Cum. Kms. (Job)..... 0.00

LINE CLEAR						
Dozer	1 Line No.....		Kms. Cut.....	Hrs.		Total Kms..... 0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.		Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.		Total Hours..... 0.00
Grader	1 Line No.....		Kms.Graded....	Hrs.		Total Hrs (Job)..... 0.00

DRILLING						PRE LOADING			Elect Dets
Rig No.	1	# Mtr	#Holes	Hrs		1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs		2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs		3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs		4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs		5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs		6	# Holes	# Dets	# Charges
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)		0
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)		0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)		0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401 DATE..... 23-Aug-01

Client..... AGSO/GSWA	Party Manager. Bob Stephenson
Survey Name. Yilgarn	Client Rep..... David Johnstone
Area..... Laverton	Weather..... Storms
State..... WA	

RECORDING				Kms.	SKIPS	PROFILES	TOTALS
Line No.....	01AGSNY1	Rec 8456.0	Rec 8748.0	11.680	0	292	Profiles..... 292
Line No.....		Rec	Rec				Skips..... 0
Line No.....		Rec	Rec				Kms..... 11.680
Line No.....		Rec	Rec				Cum Kms.. 358.080
Line No.....		Rec	Rec				

HOURS		Travel Time.....	2.50	Down Time -		Extra Charges	
		Test Time.....	0.25		Recorder.....	Extra Hrs.....	0.00
		Recording Time...	4.00		Cables.....	Detours Charge Hrs	0.00
Other Time		Line Change....			ATU's.....	Washdowns.....Hrs	0.00
		Recorder Move..	1.25		Detours/Terr...	Extra Other Charge..	3.50
		Detours/Terrain.			W / on Spread.	Total Extra.....Hrs	3.50
		Experimental...			Stock Damage	Total Extra(Job).Hrs	3.50
		Other Time...	1.5		Other.....	Processing Hrs.....	0.00
		Wait on Spread.	1.50				
		Weather Time...					
		QC Spread	0.50	Total Down Time.....	0.00	Total Day.....Hrs	11.50
		Safety Meeting..		Cum. Down Time (Job)	6.00	Total Hrs (Job).....	261.50

COMMENTS: Line 01AGSNY1 very rough and slow travel to and from work site, Still waiting for grader to arrive to clean up line.
Recording crew on standby while lowloader with dozer on went through active spread, spread had to be repaired after lowloader went through as he picked up and pulled some of the spread.

SURVEY						
Line No.....	01AGSNY1	STN.. 9380	STN.. 9770	Kms. 15.600		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.	Total Kms.....	15.600
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job).....	420.960

CHAINING						
Line No.....	01AGSNY1	STN.. 9380	STN.. 9770	Kms. 15.600		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.		
Line No.....		STN..	STN..	Kms.	Total Kms.....	15.600
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job).....	420.960

RANGING				COMMENTS :		
Line No.....		Kms				
Line No.....		Kms				
Line No.....		Kms			Total Kms.....	0.000
Line No.....		Kms			Cum. Kms. (Job).....	0.00

LINE CLEAR				Kms. Cut.....		
Dozer	1 Line No.....			Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....			Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....			Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....			Kms.Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CLIENT: EW 401 DATE: 24-Aug-01
 Client..... AGSO/GSWA Party Manager. Bob Stephenson
 Survey Name. Yilgarn Client Rep..... David Johnstone
 Area..... Laverton Weather..... Overcast / Windy
 State..... WA

RECORDING				Kms.	SKIPS	PROFILES	TOTALS
Line No.....	01AGSNY1	Rec 8748.0	Rec 9120.0	14.880	0	372	Profiles..... 372
Line No.....		Rec	Rec				Skips..... 0
Line No.....		Rec	Rec				Kms..... 14.880
Line No.....		Rec	Rec				Cum Kms.. 372.960
Line No.....		Rec	Rec				

OURS	Travel Time.....	3.00	Down Time -	Extra Charges	
	Test Time.....	0.25	Recorder.....	Extra Hrs.....	0.00
	Recording Time...	5.25	Cables.....	Detours Charge Hrs	0.00
her Time	Line Change.....		ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move...	1.25	Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs	3.50
	QC Spread	0.25	Other.....	Processing Hrs.....	0.00
	Wait on Spread.	0.75			
	Weather Time...				
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 10.75
	Safety Meeting..		Cum. Down Time (Job)	6.00	Total Hrs (Job)..... 272.25

COMMENTS: Waiting on spread due to narrow road and no where to pass the Vibes due to thick brush in places, difficult to get spread form the back to the front. Grader arrived on Thursday night and commenced cleaning up road to Yeo today. Will move camp On Saturday to end of Yeo Lake Nature Reserve and record rest of prospect from there.

SURVEY					
Line No.....	01AGSNY1	STN.. 9770	STN.. 10350	Kms. 23.200	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	Total Kms..... 23.200
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job)..... 444.160

CHAINING					
Line No.....	01AGSNY1	STN.. 9770	STN.. 10350	Kms. 23.200	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	Total Kms..... 23.200
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job)..... 444.160

CHANGING					
Line No.....		Kms			
Line No.....		Kms			
Line No.....		Kms			Total Kms..... 0.000
Line No.....		Kms			Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....		Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....		Kms.Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING			Elect Dets		
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets		# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets		# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets		# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets		# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets		# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets		# Charges	
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....		0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..		0.0	Total Dets.....		0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges		0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401		DATE..... 25-Aug-01
Client..... AGSO/GSWA	Party Manager. Bob Stephenson	
Survey Name. Yilgarn	Client Rep..... David Johnstone	
Area..... Laverton	Weather..... Over Cast	
State..... WA		

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No..... 01AGSNY1 Rec 9120.0 Rec 9492.0 14.880 0 372			Profiles.....	372
Line No..... Rec Rec			Skips.....	0
Line No..... Rec Rec			Kms.....	14.880
Line No..... Rec Rec			Cum Kms..	387.840

DOURS	Travel Time.....	3.00	Down Time -	Extra Charges	
	Test Time.....		Recorder.....	Extra Hrs.....	0.00
	Recording Time...	7.00	Cables.....	Detours Charge Hrs	0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move..	1.25	Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs	3.50
	QC Spread	0.75	Other.....	Processing Hrs.....	0.00
	Wait on Spread.				
	Weather Time...				
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 12.00
	Safety Meeting..		Cum. Down Time (Job)	6.00	Total Hrs (Job)..... 284.25

COMMENTS: Crew moved camp from Yamarna to eastern end of Yeo Lake Nature Reserve, This affected production as recording crew had to tow caravans some of the way and grader had not completed the grading of the road

SURVEY							
Line No.....	01AGSNY1	STN..	10350	STN..	10592	Kms. 9.680	
Line No.....	01AGSNY3	STN..	1160	STN..	1500	Kms. 10.200	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	Total Kms..... 19.880
Line No.....		STN..		STN..		Kms.	Cum. Kms. (Job)..... 464.040

CHAINING							
Line No.....	01AGSNY1	STN..	10350	STN..	10592	Kms. 9.680	
Line No.....	01AGSNY3	STN..	1160	STN..	1500	Kms. 10.200	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	Total Kms..... 19.880
Line No.....		STN..		STN..		Kms.	Cum. Kms. (Job)..... 464.040

LACING				COMMENTS :
Line No.....		Kms		
Line No.....		Kms		
Line No.....		Kms		
Line No.....		Kms		Total Kms..... 0.000
				Cum. Kms. (Job)..... 0.00

LINE CLEAR				
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT

DAILY PRODUCTION REPORT

CREW 401

DATE..... 26-Aug-01

Client..... AGSO/GSWA
 Survey Name. Yilgarn
 Loca..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING					Kms.	SKIPS	PROFILES	TOTALS
Line No.....	01AGSNY1	Rec	9492.0	Rec	9970.0	19.120	0	478
Line No.....		Rec		Rec				Profiles..... 478
Line No.....		Rec		Rec				Skips..... 0
Line No.....		Rec		Rec				Kms..... 19.120
Line No.....		Rec		Rec				Cum Kms.. 406.960

HOURS	Travel Time.....	1.25	Down Time -	Extra Charges
	Test Time.....	0.25	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	7.25	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	1.50	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain...		W / on Spread...	Total Extra.....Hrs 0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs 3.50
	QC Spread	0.50	Other.....	Processing Hrs..... 0.00
	Wait on Spread.	0.50		
	Weather Time...			
	Stock Damage..		Total Down Time.....	Total Day.....Hrs 11.50
	Safety Meeting..	0.25	Cum. Down Time (Job)	Total Hrs (Job)..... 295.75

COMMENTS: Safety meeting first thing in the morning. Grader cleaning up line on his way back to Laverton.

SURVEY						
Line No.....	01AGSNY3	STN..	1500	STN..	2100	Kms. 18.000
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 18.000
						Cum. Kms. (Job)..... 482.040

CHAINING						
Line No.....	01AGSNY3	STN..	1500	STN..	2100	Kms. 18.000
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
Line No.....		STN..		STN..		Kms.
						Total Kms..... 18.000
						Cum. Kms. (Job)..... 482.040

CHAINING			COMMENTS :	
Line No.....		Kms		
Line No.....		Kms		
Line No.....		Kms		
Line No.....		Kms		
				Total Kms..... 0.000
				Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....		Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....		Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING						PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs		1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs		2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs		3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs		4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs		5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs		6	# Holes	# Dets	# Charges
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0		Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0		Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0		Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401		DATE..... 27-Aug-01
Client..... AGSO/GSWA	Party Manager. Bob Stephenson	
Survey Name. Yilgarn	Client Rep..... David Johnstone	
Area..... Laverton	Weather..... Fine	
State..... WA		

	RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No..... 01AGSNY1	Rec 9970.0	Rec 10492.0	20.880	0	522
Line No.....	Rec	Rec			Profiles..... 522
Line No.....	Rec	Rec			Skips..... 0
Line No.....	Rec	Rec			Kms..... 20.880
Line No.....	Rec	Rec			Cum Kms.. 427.840

OURS	Travel Time.....	0.50	Down Time -		Extra Charges
	Test Time.....	0.25	Recorder.....		Extra Hrs..... 0.00
	Recording Time...	8.75	Cables.....		Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....		Washdowns.....Hrs 0.00
	Recorder Move..	1.00	Detours/Terr...		Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.		Total Extra.....Hrs 0.00
	Experimental...		Stock Damage		Total Extra(Job).Hrs 3.50
	QC Spread	0.25	Other.....		Processing Hrs..... 0.00
	Wait on Spread.	0.75			
	Weather Time...				
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 11.50
	Safety Meeting..		Cum. Down Time (Job)	0.00	Total Hrs (Job)..... 307.25

COMMENTS: Recording crew recording passed camp, recorder parked in camp. 4km left on line 01AGSNY1 to complete line.

SURVEY					
Line No.....	01AGSNY3	STN.. 2100	STN.. 2794	Kms. 20.820	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	Total Kms..... 20.820
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job)..... 502.860

CHAINING					
Line No.....	01AGSNY3	STN.. 2100	STN.. 2794	Kms. 20.820	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	
Line No.....		STN..	STN..	Kms.	Total Kms..... 20.820
Line No.....		STN..	STN..	Kms.	Cum. Kms. (Job)..... 502.860

RANGING					
Line No.....		Kms			
Line No.....		Kms			
Line No.....		Kms			Total Kms..... 0.000
Line No.....		Kms			Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....	Kms. Cut.....	Hrs.		Total Kms..... 0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.		Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.		Total Hours..... 0.00
Grader	1 Line No.....	Kms.Graded....	Hrs.		Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING				
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges	
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0	
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0	
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0	

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401

DATE..... 28-Aug-01

Client..... AGSO/GSWA
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING					Kms.	SKIPS	PROFILES	TOTALS		
Line No.....	01AGSNY1	Rec	10492.0	Rec	10592.0	4.000	0	100	Profiles.....	305
Line No.....		Rec		Rec					Skips.....	0
Line No.....	01AGSNY3	Rec	1040.0	Rec	1245.0	6.150	0	205	Kms.....	10.150
Line No.....		Rec		Rec					Cum Kms..	437.990
Line No.....		Rec		Rec						

COURS				Down Time -		Extra Charges	
Travel Time.....	0.50			Recorder.....		Extra Hrs.....	0.00
Test Time.....	0.25			Cables.....		Detours Charge Hrs	0.00
Recording Time...	6.00			ATU's.....		Washdowns.....Hrs	0.00
Other Time	Line Change.....	2.25		Detours/Terr...		Extra Other Charge..	0.00
	Recorder Move..	0.50		W / on Spread.		Total Extra.....Hrs	9.50
	Detours/Terrain.			Stock Damage		Total Extra(Job).Hrs	13.00
	Experimental...	1.75		Other.....		Processing Hrs.....	0.00
	QC Spread	0.25					
	Wait on Spread.						
	Weather Time...						
	Stock Damage..			Total Down Time.....	0.00	Total Day.....Hrs	11.50
	Safety Meeting..			Cum. Down Time (Job)	0.00	Total Hrs (Job).....	318.75

COMMENTS: Completed line 01AGSNY1 for a total length of 384km. Ran experimentals on line 01AGSNY3 to determin sweep parameters and commenced recording on this line.

SURVEY							
Line No.....	01AGSNY3	STN..	1040	STN..	1160	Kms.	3.600
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	Total Kms..... 3.600
Line No.....		STN..		STN..		Kms.	Cum. Kms. (Job)..... 506.460

CHAINING							
Line No.....	01AGSNY3	STN..	1040	STN..	1160	Kms.	3.600
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
Line No.....		STN..		STN..		Kms.	
						Total Kms.....	3.600
						Cum. Kms. (Job).....	506.460

RANGING				COMMENTS :			
Line No.....		Kms					
Line No.....		Kms					
Line No.....		Kms				Total Kms.....	0.000
Line No.....		Kms				Cum. Kms. (Job).....	0.00

LINE CLEAR							
Dozer	1 Line No.....		Kms. Cut.....	Hrs.		Total Kms.....	0.000
Dozer	2 Line No.....		Kms. Cut.....	Hrs.		Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....		Kms. Cut.....	Hrs.		Total Hours.....	0.00
Grader	1 Line No.....		Kms. Graded....	Hrs.		Total Hrs (Job).....	0.00

DRILLING					PRE LOADING			Elect Dets		
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges		
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges		
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges		
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges		
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges		
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges		
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....		0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..		0.0	Total Dets.....		0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges		0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401

DATE..... 29-Aug-01

Client..... AGSO/GSWA
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.	SKIPS	PROFILES	TOTALS			
Line No.....	01AGSNY3	Rec	1245.0	Rec	1645.0	12.000	0	400	Profiles.....	400
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	12.000
Line No.....		Rec		Rec					Cum Kms..	449.990
Line No.....		Rec		Rec						

OURS	Travel Time.....	1.00	Down Time -	Extra Charges
	Test Time.....		Recorder.....	Extra Hrs..... 0.00
	Recording Time...	9.50	Cables.....	Detours Charge Hrs 0.00
ther Time	Line Change.....		ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	1.00	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs 0.00
	Download Data	1.00	Stock Damage	Total Extra(Job).Hrs 13.00
	QC Spread	1.00	Other.....	Processing Hrs..... 0.00
	Wait on Spread.			
	Weather Time...			
	Stock Damage..		Total Down Time.....	0.00
	Safety Meeting..		Cum. Down Time (Job)	0.00
				Total Day.....Hrs 13.50
				Total Hrs (Job)..... 332.25

COMMENTS: 12km per day is the maximum production obtainable with the currant parameters, but as travel time is increasing daily the daily production will drop. To reach the end of the line we will either have to work an extra day or drop the fold coverage.

SURVEY					
Line No.....	STN..	STN..	Kms.		
Line No.....	STN..	STN..	Kms.		
Line No.....	STN..	STN..	Kms.		
Line No.....	STN..	STN..	Kms.	Total Kms.....	0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job).....	506.460

CHAINING					
Line No.....	STN..	STN..	Kms.		
Line No.....	STN..	STN..	Kms.		
Line No.....	STN..	STN..	Kms.		
Line No.....	STN..	STN..	Kms.	Total Kms.....	0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job).....	506.460

RANGING			COMMENTS :		
Line No.....	Kms				
Line No.....	Kms				
Line No.....	Kms			Total Kms.....	0.000
Line No.....	Kms			Cum. Kms. (Job).....	0.00

LINE CLEAR					
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms.....	0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours.....	0.00
Grader	1 Line No.....	Kms.Graded....	Hrs.	Total Hrs (Job).....	0.00

DRILLING					PRE LOADING			
Rig No.		# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0	
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0	
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0	

COMMENT Survey ran control on line 01AGSNY2 and 01AGSNY4

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

REW 401

DATE..... 30-Aug-01

Client..... AGSO/GSWA
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Showers

RECORDING				Kms.	SKIPS	PROFILES	TOTALS			
Line No.....	01AGSNY3	Rec	1645.0	Rec	2124.0	14.370	0	479	Profiles.....	479
Line No.....		Rec		Rec					Skips.....	0
Line No.....		Rec		Rec					Kms.....	14.370
Line No.....		Rec		Rec					Cum Kms..	464.360
Line No.....		Rec		Rec						

OURS	Travel Time.....	2.00	Down Time -	Extra Charges	
	Test Time.....		Recorder.....	Extra Hrs.....	0.00
	Recording Time...	9.00	Cables.....	Detours Charge Hrs	0.00
ther Time	Line Change....		ATU's.....	Washdowns.....Hrs	0.00
	Recorder Move...	1.00	Detours/Terr...	Extra Other Charge..	0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs	0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs	13.00
	Other Charge...		Other.....	Processing Hrs.....	0.00
	Wait on Spread.				
	Weather Time...	1.00			
	Stock Damage..		Total Down Time.....	0.00	Total Day.....Hrs 13.00
	Safety Meeting..		Cum. Down Time (Job)	0.00	Total Hrs (Job)..... 345.25

COMMENTS: Recording 60 fold up to station 2004, recording 120 fold from 2004 to 2124, rest of line will be recorded at 60 fold.
 Showers over night and during the day caused leakage on line first thing this morning.

SURVEY								
Line No.....	01AGSNY4	STN..	1000	STN..	1536	Kms.	21.440	
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		Total Kms..... 21.440
Line No.....		STN..		STN..		Kms.		Cum. Kms. (Job)..... 527.900

CHAINING								
Line No.....	01AGSNY4	STN..	1000	STN..	1536	Kms.	21.440	
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		
Line No.....		STN..		STN..		Kms.		Total Kms..... 21.440
Line No.....		STN..		STN..		Kms.		Cum. Kms. (Job)..... 527.900

ANGING								
Line No.....		Kms						
Line No.....		Kms						
Line No.....		Kms						Total Kms..... 0.000
Line No.....		Kms						Cum. Kms. (Job)..... 0.00

LINE CLEAR								
Dozer	1 Line No.....		Kms. Cut.....	Hrs.		Total Kms.....	0.000	
Dozer	2 Line No.....		Kms. Cut.....	Hrs.		Cum. Kms. (Job).....	0.000	
Dozer	3 Line No.....		Kms. Cut.....	Hrs.		Total Hours.....	0.00	
ader	1 Line No.....		Kms.Graded....	Hrs.		Total Hrs (Job).....	0.00	

DRILLING					PRE LOADING			Elect Dets			
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges			
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges			
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges			
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges			
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges			
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges			
Total # Mtr.....		0.0	Cum # Mtr(Job).....		0.0	Total # Holes.....		0	Cum #Holes(Job)		0
Total Drilled.....		0.0	Cum Drilled(Job).....		0.0	Total Dets.....		0	Cum Dets(Job)		0
Total Hrs.....		0.0	Total # Hrs(Job).....		0.0	Total Charges		0	Total # Charges(Job)		0

COMMENT Survey completed except for final office comps, these will be completed tomorrow morning.

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401 DATE..... 31-Aug-01

Client..... AGSO/GSWA Party Manager. Bob Stephenson

Survey Name. Yilgarn Client Rep..... David Johnstone

Area..... Laverton Weather..... Fine

State..... WA

RECORDING				Kms.	SKIPS	PROFILES	TOTALS		
Line No.....	01AGSNY3	Rec	2124.0	Rec	2502.0	11.340	0	378	Profiles..... 378
Line No.....		Rec		Rec					Skips..... 0
Line No.....		Rec		Rec					Kms..... 11.340
Line No.....		Rec		Rec					Cum Kms.. 475.700
Line No.....		Rec		Rec					

HOURS		Travel Time.....	3.75	Down Time -	Extra Charges
	Test Time.....			Recorder.....	Extra Hrs..... 0.00
	Recording Time...	5.50		Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change....			ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	2.00		Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.	1.00		W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...			Stock Damage	Total Extra(Job).Hrs 13.00
	Other Charge...			Other.....	Processing Hrs..... 0.00
	Wait on Spread.				
	Weather Time...				
	Stock Damage..			Total Down Time.....	0.00
	Safety Meeting..			Cum. Down Time (Job)	0.00
				Total Day.....Hrs	12.25
				Total Hrs (Job).....	357.50

COMMENTS: Vibes having trouble getting over dunes, recorder had a flat tyre on recorder move.

Travel time eating up a good part of the day, line is getting slower to travel on.

SURVEY				Kms.	Total Kms.....
Line No.....	STN..	STN..		Kms.	0.000
Line No.....	STN..	STN..		Kms.	
Line No.....	STN..	STN..		Kms.	
Line No.....	STN..	STN..		Kms.	
Line No.....	STN..	STN..		Kms.	527.900

CHAINING				Kms.	Total Kms.....
Line No.....	STN..	STN..		Kms.	0.000
Line No.....	STN..	STN..		Kms.	
Line No.....	STN..	STN..		Kms.	
Line No.....	STN..	STN..		Kms.	
Line No.....	STN..	STN..		Kms.	527.900

RANGING				COMMENTS :	Total Kms.....
Line No.....		Kms			0.000
Line No.....		Kms			
Line No.....		Kms			
Line No.....		Kms			0.00

LINE CLEAR				Total Kms.....
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	0.00

DRILLING				PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT Survey completed Final comps and handed data to Leonie Jones of AGSO at Laverton.

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 01-Sep-01

Client..... AGSO / GSWA
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager.. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.	SKIPS	PROFILES	TOTALS
Line No.....	01AGSNY3	Rec 2502.0	Rec 2794.0	8.760	0	292	Profiles..... 292
Line No.....		Rec	Rec				Skips..... 0
Line No.....		Rec	Rec				Kms..... 8.760
Line No.....		Rec	Rec				Cum Kms.. 484.460
Line No.....		Rec	Rec				

HOUS	Travel Time.....	4.00	Down Time -	Extra Charges
	Test Time.....		Recorder.....	Extra Hrs.....
	Recording Time...	3.50	Cables.....	Detours Charge Hrs
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs
	Recorder Move..		Detours/Terr...	Extra Other Charge..
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs 0.00
	QC Spread	0.25	Other.....	Processing Hrs.....
	Pick up Spread....	1.50		
	Vibes Drive to Camp	3.25		
	Stock Damage..		Total Down Time.....	Total Day.....Hrs 12.50
	Safety Meeting..		Cum. Down Time (Job)	Total Hrs (Job)..... 370.00
			0.00	

COMMENTS: Completed Line 01AGDNY3, picked up spread and moved back to camp site ready for Demob to Laverton.

Total length of Line 01AGSNY3 52.62km.

SURVEY			
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
			Total Kms..... 0.000
			Cum. Kms. (Job)..... 527.900

CHAINING			
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
Line No.....	STN..	STN..	Kms.
			Total Kms..... 0.000
			Cum. Kms. (Job)..... 527.900

DRAINING			
Line No.....	Kms		
Line No.....	Kms		
Line No.....	Kms		
Line No.....	Kms		
			Total Kms..... 0.000
			Cum. Kms. (Job)..... 0.00

LINE CLEAR			
Dozer	1 Line No.....	Kms. Cut.....	Hrs.
Dozer	2 Line No.....	Kms. Cut.....	Hrs.
Dozer	3 Line No.....	Kms. Cut.....	Hrs.
Grader	1 Line No.....	Kms. Graded....	Hrs.
			Total Kms..... 0.000
			Cum. Kms. (Job)..... 0.000
			Total Hours..... 0.00
			Total Hrs (Job)..... 0.00

DRILLING			
Rig No.	# Mtr	#Holes	Hrs
Rig No.	# Mtr	#Holes	Hrs
Rig No.	# Mtr	#Holes	Hrs
Rig No.	# Mtr	#Holes	Hrs
Rig No.	# Mtr	#Holes	Hrs
Rig No.	# Mtr	#Holes	Hrs
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0

PRE LOADING			
			Elect Dets
1	# Holes	# Dets	# Charges
2	# Holes	# Dets	# Charges
3	# Holes	# Dets	# Charges
4	# Holes	# Dets	# Charges
5	# Holes	# Dets	# Charges
6	# Holes	# Dets	# Charges
Total # Holes.....	0	Cum #Holes(Job)	0
Total Dets.....	0	Cum Dets(Job)	0
Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 2-Sep-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No.....	Rec	Rec	Profiles.....	0
Line No.....	Rec	Rec	Skips.....	0
Line No.....	Rec	Rec	Kms.....	0.000
Line No.....	Rec	Rec	Cum Kms..	484.460
Line No.....	Rec	Rec		

OURS	Travel Time.....	Down Time -	Extra Charges
	Test Time.....	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....	ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.	W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...	Stock Damage	Total Extra(Job).Hrs 0.00
	Camp move 11.50	Vibes.....	Processing Hrs.....
	Wait on Spread.		
	Weather Time...		
	Stock Damage..	Total Down Time..... 0.00	Total Day.....Hrs 11.50
	Safety Meeting..	Cum. Down Time (Job) 0.00	Total Hrs (Job)..... 381.50

COMMENTS: Camp move from Yeo Lake Nature Reserve to 16km south of Laverton. 271km move.

SURVEY	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

CHAINING	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

ANGING	COMMENTS :	
Line No.....	Kms	
Line No.....	Kms	
Line No.....	Kms	Total Kms..... 0.000
Line No.....	Kms	Cum. Kms. (Job)..... 0.00

LINE CLEAR				
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges
Total # Mtr.....		0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0
Total Drilled.....		0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0
Total Hrs.....		0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 3-Sep-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING				Kms.		SKIPS	PROFILES	TOTALS
Line No.....	01AGSNY4	Rec	1000.0	Rec	1300.0	12.000	8	150
Line No.....		Rec		Rec				Profiles..... 150
Line No.....		Rec		Rec				Skips..... 8
Line No.....		Rec		Rec				Kms..... 12.000
Line No.....		Rec		Rec				Cum Kms.. 496.460

HOURS		Travel Time.....		1.50	Down Time -		Extra Charges	
		Test Time.....			Recorder.....		Extra Hrs.....	0.00
		Recording Time...		5.75	Cables.....		Detours Charge Hrs	0.00
Other Time		Line Change....			ATU's.....		Washdowns.....Hrs	0.00
		Recorder Move..		0.25	Detours/Terr...		Extra Other Charge..	0.00
		Detours/Terrain.		1.50	W / on Spread.		Total Extra.....Hrs	0.00
		Experimental...		0.75	Stock Damage		Total Extra(Job).Hrs	0.00
		Other Charge...			Vibes		Processing Hrs.....	
		Lay Spread		2.00				
		Weather Time...						
		Stock Damage..			Total Down Time.....		Total Day.....Hrs	12.00
		Safety Induction		0.25	Cum. Down Time (Job)		Total Hrs (Job).....	393.50

COMMENTS: Safety Induction at start of Line, Lay Spread, Ran Experimental, Vibes detour around boggy section on line.
 Recording Line 01AGSNY4 with the same parameters as we recorded line 01AGSNY1.

SURVEY				Kms.		
Line No.....	STN..	STN..		Kms.		
Line No.....	STN..	STN..		Kms.		
Line No.....	STN..	STN..		Kms.		
Line No.....	STN..	STN..		Kms.	Total Kms.....	0.000
Line No.....	STN..	STN..		Kms.	Cum. Kms. (Job).....	527.900

CHAINING				Kms.		
Line No.....	STN..	STN..		Kms.		
Line No.....	STN..	STN..		Kms.		
Line No.....	STN..	STN..		Kms.		
Line No.....	STN..	STN..		Kms.	Total Kms.....	0.000
Line No.....	STN..	STN..		Kms.	Cum. Kms. (Job).....	527.900

RANGING		COMMENTS :		
Line No.....	Kms			
Line No.....	Kms			
Line No.....	Kms			Total Kms..... 0.000
Line No.....	Kms			Cum. Kms. (Job)..... 0.00

LINE CLEAR				Kms. Cut.....		Hrs.	Total Kms.....	0.000
Dozer	1 Line No.....			Kms. Cut.....		Hrs.	Cum. Kms. (Job).....	0.000
Dozer	2 Line No.....			Kms. Cut.....		Hrs.	Total Hours.....	0.00
Dozer	3 Line No.....			Kms. Graded....		Hrs.	Total Hrs (Job).....	0.00
Grader	1 Line No.....							

DRILLING				PRE LOADING				Elect Dets	
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges	
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges	
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges	
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges	
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges	
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges	
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0		
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0		
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0		

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 4-Sep-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING					Kms.	SKIPS	PROFILES	TOTALS	
Line No.....	01AGSNY4	Rec	1300.0	Rec	1536.0	9.440	1	115	Profiles..... 115
Line No.....		Rec		Rec					Skips..... 1
Line No.....		Rec		Rec					Kms..... 9.440
Line No.....		Rec		Rec					Cum Kms.. 505.900
Line No.....		Rec		Rec					

HOURS	Travel Time.....	1.50	Down Time -	Extra Charges
	Test Time.....		Recorder.....	Extra Hrs..... 0.00
	Recording Time...	3.50	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....		ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..		Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.		W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...		Stock Damage	Total Extra(Job).Hrs 0.00
	QC spread	0.50	Other.....	Processing Hrs.....
	Pick up Spread	3.00		
	Weather Time...			
	Stock Damage..		Total Down Time..... 0.00	Total Day.....Hrs 8.50
	Safety Meeting..		Cum. Down Time (Job) 0.00	Total Hrs (Job)..... 402.00

COMMENTS: Completed recording line 01AGSNY4, picked up spread and packed up equipment, washed as many vehicles as possible. Packed up ready to demob to kalgoorlie tomorrow.
 Difference in survey km and recording km, 22km not recorded on line 01AGSNY2

SURVEY	Line No.....	STN..	STN..	Kms.	
	Line No.....	STN..	STN..	Kms.	
	Line No.....	STN..	STN..	Kms.	
	Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
	Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

CHAINING	Line No.....	STN..	STN..	Kms.	
	Line No.....	STN..	STN..	Kms.	
	Line No.....	STN..	STN..	Kms.	
	Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
	Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

RANGING	Line No.....	Kms	COMMENTS :	
	Line No.....	Kms		
	Line No.....	Kms		Total Kms..... 0.000
	Line No.....	Kms		Cum. Kms. (Job)..... 0.00

LINE CLEAR					
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms.....	0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job).....	0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours.....	0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job).....	0.00

DRILLING	Rig No.	1	# Mtr	#Holes	Hrs	PRE LOADING	1	# Holes	# Dets	# Charges
	Rig No.	2	# Mtr	#Holes	Hrs		2	# Holes	# Dets	# Charges
	Rig No.	3	# Mtr	#Holes	Hrs		3	# Holes	# Dets	# Charges
	Rig No.	4	# Mtr	#Holes	Hrs		4	# Holes	# Dets	# Charges
	Rig No.	5	# Mtr	#Holes	Hrs		5	# Holes	# Dets	# Charges
	Rig No.	6	# Mtr	#Holes	Hrs		6	# Holes	# Dets	# Charges
	Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0		
	Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0		
	Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0		

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 5-Sep-01

Client.....	AGSO	Party Manager.	Bob Stephenson
Survey Name.	Yilgarn	Client Rep.....	David Johnstone
Area.....	Laverton	Weather.....	Fine
State.....	WA		

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No.....	Rec	Rec	Profiles.....	0
Line No.....	Rec	Rec	Skips.....	0
Line No.....	Rec	Rec	Kms.....	0.000
Line No.....	Rec	Rec	Cum Kms..	505.900
Line No.....	Rec	Rec		

HOURS	Travel Time.....	Down Time -	Extra Charges
	Test Time.....	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....	ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.	W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...	Stock Damage	Total Extra(Job).Hrs 0.00
	Other Charge...	Other.....	Processing Hrs.....
	Wait on Spread.		
	Weather Time...		
	Stock Damage..	Total Down Time..... 0.00	Total Day.....Hrs 0.00
	Safety Meeting..	Cum. Down Time (Job) 0.00	Total Hrs (Job)..... 402.00

COMMENTS: Demob from Laverton to Kalgoorlie with all camp and vehicles, Vibes being transported by lowloaders.

SURVEY	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

CHAINING	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

RANGING	Kms	
Line No.....	Kms	
Line No.....	Kms	
Line No.....	Kms	Total Kms..... 0.000
Line No.....	Kms	Cum. Kms. (Job)..... 0.00

LINE CLEAR		Kms. Cut.....	Hrs.	Total Kms.....	0.000
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job).....	0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Total Hours.....	0.00
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hrs (Job).....	0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.		

DRILLING		Hrs		PRE LOADING		Hrs	
Rig No.	1 # Mtr #Holes	Hrs		1 # Holes # Dets	Hrs		
Rig No.	2 # Mtr #Holes	Hrs		2 # Holes # Dets	Hrs		
Rig No.	3 # Mtr #Holes	Hrs		3 # Holes # Dets	Hrs		
Rig No.	4 # Mtr #Holes	Hrs		4 # Holes # Dets	Hrs		
Rig No.	5 # Mtr #Holes	Hrs		5 # Holes # Dets	Hrs		
Rig No.	6 # Mtr #Holes	Hrs		6 # Holes # Dets	Hrs		
Total # Mtr.....	0.0 Cum # Mtr(Job).....	0.0		Total # Holes.....	0		Cum #Holes(Job) 0
Total Drilled.....	0.0 Cum Drilled(Job)..	0.0		Total Dets.....	0		Cum Dets(Job) 0
Total Hrs.....	0.0 Total # Hrs(Job).....	0.0		Total Charges	0		Total # Charges(Job) 0

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 6-Sep-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No.....	Rec	Rec	Profiles.....	0
Line No.....	Rec	Rec	Skips.....	0
Line No.....	Rec	Rec	Kms.....	0.000
Line No.....	Rec	Rec	Cum Kms..	505.900
Line No.....	Rec	Rec		

MOURS	Travel Time.....	Down Time -	Extra Charges
	Test Time.....	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....	ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.	W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...	Stock Damage	Total Extra(Job).Hrs 0.00
	Download Exabyte	Other.....	Processing Hrs.....
	Wait on Spread.		
	Weather Time...		
	Stock Damage..	Total Down Time..... 0.00	Total Day.....Hrs 0.00
	Safety Meeting..	Cum. Down Time (Job) 0.00	Total Hrs (Job)..... 402.00

COMMENTS: Washing vibes and recorder and packing acquisition spread in container. Vibes, recorder and container will be stored in Hampton transport's yard.

SURVEY	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

CHAINING	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

RANGING	COMMENTS :
Line No.....	Kms
Line No.....	Kms
Line No.....	Kms
Line No.....	Kms
	Total Kms..... 0.000
	Cum. Kms. (Job)..... 0.00

LINE CLEAR				
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0	
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0	
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0	

COMMENT

TRACE ENERGY SERVICES

DAILY PRODUCTION REPORT

CREW 401

DATE..... 7-Sep-01

Client..... AGSO
 Survey Name. Yilgarn
 Area..... Laverton
 State..... WA

Party Manager. Bob Stephenson
 Client Rep..... David Johnstone
 Weather..... Fine

RECORDING	Kms.	SKIPS	PROFILES	TOTALS
Line No.....	Rec	Rec	Profiles.....	0
Line No.....	Rec	Rec	Skips.....	0
Line No.....	Rec	Rec	Kms.....	0.000
Line No.....	Rec	Rec	Cum Kms..	505.900
Line No.....	Rec	Rec		

HOURS	Travel Time.....	Down Time -	Extra Charges
	Test Time.....	Recorder.....	Extra Hrs..... 0.00
	Recording Time...	Cables.....	Detours Charge Hrs 0.00
Other Time	Line Change.....	ATU's.....	Washdowns.....Hrs 0.00
	Recorder Move..	Detours/Terr...	Extra Other Charge.. 0.00
	Detours/Terrain.	W / on Spread.	Total Extra.....Hrs 0.00
	Experimental...	Stock Damage	Total Extra(Job).Hrs 0.00
	QC Spread	Vibes	Processing Hrs.....
	Wait on Spread.		
	Weather Time...		
	Stock Damage..	Total Down Time..... 0.00	Total Day.....Hrs 0.00
	Safety Meeting..	Cum. Down Time (Job) 0.00	Total Hrs (Job)..... 402.00

COMMENTS: Crew demob to perth with Trace Energy services equipment.

SURVEY	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

CHAINING	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	
Line No.....	STN..	STN..	Kms.	Total Kms..... 0.000
Line No.....	STN..	STN..	Kms.	Cum. Kms. (Job)..... 527.900

RANGING	COMMENTS :
Line No.....	Kms
Line No.....	Kms
Line No.....	Kms
Line No.....	Kms
	Total Kms..... 0.000
	Cum. Kms. (Job)..... 0.00

LINE CLEAR				
Dozer	1 Line No.....	Kms. Cut.....	Hrs.	Total Kms..... 0.000
Dozer	2 Line No.....	Kms. Cut.....	Hrs.	Cum. Kms. (Job)..... 0.000
Dozer	3 Line No.....	Kms. Cut.....	Hrs.	Total Hours..... 0.00
Grader	1 Line No.....	Kms. Graded....	Hrs.	Total Hrs (Job)..... 0.00

DRILLING					PRE LOADING			
Rig No.	1	# Mtr	#Holes	Hrs	1	# Holes	# Dets	# Charges
Rig No.	2	# Mtr	#Holes	Hrs	2	# Holes	# Dets	# Charges
Rig No.	3	# Mtr	#Holes	Hrs	3	# Holes	# Dets	# Charges
Rig No.	4	# Mtr	#Holes	Hrs	4	# Holes	# Dets	# Charges
Rig No.	5	# Mtr	#Holes	Hrs	5	# Holes	# Dets	# Charges
Rig No.	6	# Mtr	#Holes	Hrs	6	# Holes	# Dets	# Charges
Total # Mtr.....	0.0	Cum # Mtr(Job).....	0.0	Total # Holes.....	0	Cum #Holes(Job)	0	
Total Drilled.....	0.0	Cum Drilled(Job)..	0.0	Total Dets.....	0	Cum Dets(Job)	0	
Total Hrs.....	0.0	Total # Hrs(Job).....	0.0	Total Charges	0	Total # Charges(Job)	0	

COMMENT

EXPERIMENTAL PROGRAM

The initial experimental program for the 2001 Northern Yilgarn Seismic Survey was conducted on Thursday 2nd and Friday 3rd August 2001 on the western end of Line 01AGS-NY1. Experimentals were then conducted at the beginning of each of the lines 01AGS-NY2, 01AGS-NY3 and 01AGS-NY4

Aim of the Experimental Program

The fundamental acquisition parameters of group interval, number of channels, CDP Fold, VP interval and record length were decided based on the quality of data previously acquired in the Yilgarn Block in the Kalgoorlie vicinity (AGSO survey L150 in 1999), so that the main objective of the experimentals was then to determine optimum:

- Sweep type (Varisweep vs Monosweep)
- Sweep Frequencies (Bandwidth and Shape)

Line 01AGS-NY1 - Sweep Frequency Tests - Thursday 2nd and Friday 3rd August 2001

Thursday 2nd August 2001 – Reel No. L15401001 (Line TESTS)

Live spread of 240 receiver groups @ 40m GI. 12 x Geospace 10 Hz Geophones laid over 40 metres with 3.3 m phone spacing. (Centred between stations, ie 1000 centred at 1000.5) 6 VPs every second station (80 m VP interval) from 1216 to 1228 with a skip at 1222 for a pipe. Vibe array centred on peg. Roll along of spread for successive VPs.

Offsets –4800 to +4800m

16 s record length sampled at 2 ms

FFID No.	V.P.	Spread	Sweep Freq	No. Sweeps	Sweep Length	Source Config	No. Vibes
1	1216	1096-1335	Monosweep 6 –90 Hz	3	12 s	15mP-P/15m Moveups	3
3	1218	1098-1337	Monosweep 6 –90 Hz	3	12 s	15mP-P/15m Moveups	3
4	1220	1100-1339	Monosweep 6 –90 Hz	3	12 s	15mP-P/15m Moveups	3
5	1224	1104-1343	Monosweep 6 –90 Hz	3	12 s	15mP-P/15m Moveups	3
6	1226	1106-1345	Monosweep 6 –90 Hz	3	12 s	15mP-P/15m Moveups	3
7	1228	1108-1347	Monosweep 6 –90 Hz	3	12 s	15mP-P/15m Moveups	3

Attempts were made to run tests with varisweep of 7-56 Hz, 12-80 Hz and 8-72 Hz over same range (FFID 8-12), but Pelton controller errors and correlation problems forced deferral of tests to next day.

Friday 3rd August 2001 – Reel No. L15401002 (Line TESTS)

For the varisweep tests, the live spread started from 1120 due to logistical reasons, with the station range as shown below. Geophone arrays still centred between pegs @ 40m GI.

6 VPs every second station (80 m VP interval) from 1216 to 1228 with a skip at 1222 for a pipe. Vibe array centred on peg. Roll along of spread for successive VPs.

Offsets approximately -4000 to +4800m

16 s record length sampled at 2 ms

FFID No.	V.P.	Spread	Sweep Freq	No. Sweeps	Sweep Length	Source Config	No. Vibes
13	1216	1120-1335	Varisweep*	3	12 s	15mP-P/15m Moveups	3
14	1218	1120-1337	Varisweep*	3	12 s	15mP-P/15m Moveups	3
15	1220	1120-1339	Varisweep*	3	12 s	15mP-P/15m Moveups	3
16	1224	1120-1343	Varisweep*	3	12 s	15mP-P/15m Moveups	3
17	1226	1120-1345	Varisweep*	3	12 s	15mP-P/15m Moveups	3
18	1228	1120-1347	Varisweep*	3	12 s	15mP-P/15m Moveups	3

*Varisweep parameters: 7-56 Hz, 12-80 Hz and 8-72 Hz

FFID No.	V.P.	Spread	Sweep Freq	No. Sweeps	Sweep Length	Source Config	No. Vibes
19	1216	1120-1335	Varisweep#	4	8 s	15mP-P/15m Moveups	3
20	1218	1120-1337	Varisweep#	4	8 s	15mP-P/15m Moveups	3
21	1220	1120-1339	Varisweep#	4	8 s	15mP-P/15m Moveups	3
22	1224	1120-1343	Varisweep#	4	8 s	15mP-P/15m Moveups	3
23	1226	1120-1345	Varisweep#	4	8 s	15mP-P/15m Moveups	3
24	1228	1120-1347	Varisweep#	4	8 s	15mP-P/15m Moveups	3

#Varisweep parameters: 6-64 Hz, 12-120 Hz , 12-100 Hz and 6-80 Hz

Repeat of 2/8/01 tests with same source/spread configuration and monosweep parameters, i.e. live spread of 240 receiver groups @ 40m GI.

6 VPs every second station (80 m VP interval) from 1216 to 1228 with a skip at 1222 for a pipe. Vibe array centred on peg. Roll along of spread for successive VPs.

Offsets -4800 to +4800m

16 s record length sampled at 2 ms

FFID No.	V.P.	Spread	Sweep Freq	No. Sweeps	Sweep Length	Source Config	No. Vibes
25	1216	1096-1335	Monosweep 6-90 Hz	3	12 s	15mP-P/15m Moveups	3
26	1218	1098-1337	Monosweep 6-90 Hz	3	12 s	15mP-P/15m Moveups	3
27	1220	1100-1339	Monosweep 6-90 Hz	3	12 s	15mP-P/15m Moveups	3
28	1224	1104-1343	Monosweep 6-90 Hz	3	12 s	15mP-P/15m Moveups	3
29	1226	1106-1345	Monosweep 6-90 Hz	3	12 s	15mP-P/15m Moveups	3
30	1228	1108-1347	Monosweep 6-90 Hz	3	12 s	15mP-P/15m Moveups	3

Line 01AGS-NY2 - Sweep Frequency Tests - Monday 13th August 2001

Reel No. L15401028 (Line 01AGS-NY2)

Live spread from 1000-1239, with 240 receiver groups (centred between pegs) @ 40m GI.
5 consecutive VPs every second station from 1000-1010 at 80 m VP interval, vibe array
centred on peg. No roll along of spread.
Offsets 0 to +9600 m at VP 1000
16 s record length, sampled at 2 ms

FFID No.	V.P.	Sweep Freq	No. Sweeps	Sweep Length	Source Config	No. Vibes
2140-2145	1000-1010	Varisweep 7 - 56 Hz 12 - 100 Hz 8 - 72 Hz	3	12 s	15mP-P/15m Moveups	3
2146-2151	1000-1010	Varisweep 7 - 56 Hz 12 - 80 Hz 8 - 72 Hz	3	12 s	15mP-P/15m Moveups	3

NB: FFID 2146 - 2151 also start of production

Line 01AGS-NY3 - Sweep Frequency Tests - Tuesday 28th August 2001

Reel No. L15401069 (Line 01AGS-NY3)

Live spread from 1040-1279, with 240 receiver groups (centred between pegs) @ 30m GI.
5 consecutive VPs 1040-1044 at 30 m VP interval, vibe array centred on peg. No roll along
of spread.

Offsets 0 to +7200m at VP 1040

16 s record length, sampled at 2 ms

FFID No.	V.P.	Sweep Freq	No. Sweeps	Sweep Length	Source Config	No. Vibes
5352-5356	1040-1044	Varisweep 7 – 56 Hz 12 – 80 Hz 8 – 72 Hz	3	8 s	15mP-P/10m Moveups	3
5357-5361	1040-1044	Varisweep 8 – 72 Hz 12 – 100 Hz 6 – 80 Hz	3	8 s	15mP-P/10m Moveups	3
5362-5366	1040-1044	Monosweep 6 – 90 Hz	3	8 s	15mP-P/10m Moveups	3
5367-5371	1040-1044	Monosweep 12 – 100 Hz	3	8 s	15mP-P/10m Moveups	3
5372-5376	1040-1044	Varisweep 6 – 64 Hz 12 – 90 Hz 8 – 76 Hz	3	8 s	15mP-P/10m Moveups	3
5377-5381	1040-1044	Varisweep 10 – 72 Hz 16 – 96 Hz 12 – 84 Hz	3	8 s	15mP-P/10m Moveups	3
5382-5386	1040-1044	Varisweep 8 – 72 Hz 16 – 90 Hz 10 – 90 Hz	3	8 s	15mP-P/10m Moveups	3

Line 01AGS-NY4 - Sweep Frequency Tests - Monday 3rd September 2001

Reel No. L15401083 (Line 01AGS-NY4)

Live spread from 1000-1239, with 240 receiver groups (centred between pegs) @ 40m GI.
5 consecutive VPs every second station from 1074-1082 at 80 m VP interval, vibe array
centred on peg. No roll along of spread.
Offsets -3000 m to + 6600 m at VP 1074
16 s record length, sampled at 2 ms

FFID No.	V.P.	Sweep Freq	No. Sweeps	Sweep Length	Source Config	No. Vibes
6613-6617	1074-1082	Monosweep 6 – 90 Hz	3	12 s	15mP-P/15m Moveups	3
6618-6622	1074-1082	Varisweep 8 – 72 Hz 12 – 100 Hz 6 – 80 Hz	3	12 s	15mP-P/15m Moveups	3
6623-6627	1074-1082	Varisweep 7 – 56 Hz 12 – 80 Hz 8 – 72 Hz	3	12 s	15mP-P/15m Moveups	3



AGSO

Northern Yilgarn Seismic Profiling 2001

Party No. # 401

Date Recorded: 3 to 28 August 2001

Observer: Mike Bokor
Observer: Wayne Arnold

01AGSNY1

Instrumentation

Recording System: Aram 24
Plotter: GS-612

Shooting System: Pelton Advance II Model 6
Geophone Model: OYO GS-32CT

Recording Parameters

Record Length:	16,000 Mil	Sample Rate:	2 ms.	Preamp Gain:	30 dB
Noise Edit Type:	None	Tape Format:	Seg Y	Tape Density:	32 Bit Floating Point
Low Cut Filter:	3 Hz	High Cut:	205 Hz	HPE Filter:	Out
Aux. Chan. #1:	Time Break	Aux. Chan. #2:	True Reference	Aux. Chan. #3:	W.L. Reference
CSM Process:	Correlate Before Stack	Stations in Gap:	0	No. of Chan.:	240 + 3 Aux

Receiver Parameters

Geophone Array:	12 Over 40 M	Geophone Frequency:	10 Hz
Geophone Wiring:	12 Phones Series/ Parallel	Geophone Base:	3" Spikes
Geophone Spacing:	3.33 M	Geophone Damping:	0.70%
Receiver Station Intervals:	40 M	No. of Receiver Lines:	1
Receiver Station Centre:	Mid Peg	First Receiver On Line:	992
Direction of Recording:	West To East	Last Receiver On Line:	10592

Source Parameters

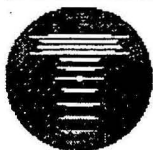
Source Type:	IVI Hemi 60 Vibrator	Source Array Length:	60 M
Vibe Spacing:	15M	Vibe Move ups:	15 M
Source Point Intervals:	80 M	Number of Composites:	3
Sweep Length:	12,000 Mil	Sweep Taper:	200 Mil
Source Centre:	On Peg	Sweep Type:	Linear
Sweep # 1	7-56 Hz	Num Vibes On Line:	3
Sweep # 2	12-80 Hz	First Source Point:	992
Sweep # 3	8-72 Hz	Last Source Point:	10592

3490E Tape Summary

Reel Number:	L15401001	Stn To Stn:	1216 To 1228	File To File:	1 To 12
Reel Number:	L15401002	Stn To Stn:	1216 To 1228	File To File:	13 To 30
Reel Number:	L15401003	Stn To Stn:	992 To 1240	File To File:	1 to 120
Reel Number:	L15401004	Stn To Stn:	1242 To 1306	File To File:	121 to 153
Reel Number:	L15401005	Stn To Stn:	1308 To 1548	File To File:	154 To 274
Reel Number:	L15401006	Stn To Stn:	1550 To 1732	File To File:	275 To 366
Reel Number:	L15401007	Stn To Stn:	1734 To 1926	File To File:	367 To 463
Reel Number:	L15401008	Stn To Stn:	1928 To 2128	File To File:	464 To 565
Reel Number:	L15401009	Stn To Stn:	2130 To 2222	File To File:	566 To 612
Reel Number:	L15401010	Stn To Stn:	2224 To 2426	File To File:	613 To 714
Reel Number:	L15401011	Stn To Stn:	2428 To 2630	File To File:	715 to 816
Reel Number:	L15401012	Stn To Stn:	2632 To 2726	File To File:	817 To 864
Reel Number:	L15401013	Stn To Stn:	2728 To 2896	File To File:	865 To 949
Reel Number:	L15401014	Stn To Stn:	2898 To 3100	File To File:	950 To 1051
Reel Number:	L15401015	Stn To Stn:	3102 To 3240	File To File:	1052 To 1121
Reel Number:	L15401016	Stn To Stn:	3242 To 3442	File To File:	1122 To 1223
Reel Number:	L15401017	Stn To Stn:	3444 To 3646	File To File:	1224 To 1325
Reel Number:	L15401018	Stn To Stn:	3648 To 3750	File To File:	1326 To 1377
Reel Number:	L15401019	Stn To Stn:	3752 To 3954	File To File:	1378 To 1479
Reel Number:	L15401020	Stn To Stn:	3956 To 4072	File To File:	1480 To 1538
Reel Number:	L15401021	Stn To Stn:	4106 To 4270	File To File:	1539 To 1621
Reel Number:	L15401022	Stn To Stn:	4272 To 4474	File To File:	1622 To 1723
Reel Number:	L15401023	Stn To Stn:	4476 To 4678	File To File:	1724 To 1825

Reel Number:	L15401024	Stn To Stn:	4680 To 4788	File To File	1826 To 1880
Reel Number:	L15401025	Stn To Stn:	4790 To 4992	File To File	1881 To 1982
Reel Number:	L15401026	Stn To Stn:	4994 To 5196	File To File	1983 To 2084
Reel Number:	L15401027	Stn To Stn:	5198 To 5306	File To File	2085 To 2139
Reel Number:	L15401036	Stn To Stn:	5308 To 5510	File To File	2709 To 2810
Reel Number:	L15401037	Stn To Stn:	5512 To 5714	File To File	2811 To 2912
Reel Number:	L15401038	Stn To Stn:	5716 To 5898	File To File	2913 To 3004
Reel Number:	L15401039	Stn To Stn:	5900 To 6036	File To File	3005 To 3073
Reel Number:	L15401040	Stn To Stn:	6038 To 6218	File To File	3074 To 3164
Reel Number:	L15401041	Stn To Stn:	6220 To 6366	File To File	3165 To 3238
Reel Number:	L15401042	Stn To Stn:	6368 To 6648 6548	File To File	3239 To 3329
Reel Number:	L15401043	Stn To Stn:	6650 6550 To 6570	File To File	3330 To 3340
Reel Number:	L15401044	Stn To Stn:	6572 To 6756	File To File	3341 To 3433
Reel Number:	L15401045	Stn To Stn:	6758 To 6942	File To File	3434 To 3526
Reel Number:	L15401046	Stn To Stn:	6944 To 7010	File To File	3527 To 3560
Reel Number:	L15401047	Stn To Stn:	7012 To 7196	File To File	3561 To 3653
Reel Number:	L15401048	Stn To Stn:	7198 To 7382	File To File	3654 To 3746
Reel Number:	L15401049	Stn To Stn:	7384 To 7532	File To File	3747 To 3821
Reel Number:	L15401050	Stn To Stn:	7534 To 7718	File To File	3822 To 3914
Reel Number:	L15401051	Stn To Stn:	7720 To 7904	File To File	3915 To 4007
Reel Number:	L15401052	Stn To Stn:	7906 To 7980	File To File	4008 To 4045
Reel Number:	L15401053	Stn To Stn:	7982 To 8146	File To File	4046 To 4128
Reel Number:	L15401054	Stn To Stn:	8148 To 8332	File To File	4129 To 4221
Reel Number:	L15401055	Stn To Stn:	8334 To 8456	File To File	4222 To 4283
Reel Number:	L15401056	Stn To Stn:	8458 To 8642	File To File	4284 To 4376
Reel Number:	L15401057	Stn To Stn:	8644 To 8748	File To File	4377 To 4429
Reel Number:	L15401058	Stn To Stn:	8750 To 8934	File To File	4430 To 4522
Reel Number:	L15401059	Stn To Stn:	8936 To 9120	File To File	4523 To 4615
Reel Number:	L15401060	Stn To Stn:	9122 To 9306	File To File	4616 To 4708
Reel Number:	L15401061	Stn To Stn:	9308 To 9492	File To File	4709 To 4801
Reel Number:	L15401062	Stn To Stn:	9494 To 9680	File To File	4802 To 4895
Reel Number:	L15401063	Stn To Stn:	9682 To 9870	File To File	4896 To 4990
Reel Number:	L15401064	Stn To Stn:	9872 To 9970	File To File	4991 To 5040
Reel Number:	L15401065	Stn To Stn:	9972 To 10160	File To File	5041 To 5135
Reel Number:	L15401066	Stn To Stn:	10162 To 10310	File To File	5136 To 5210
Reel Number:	L15401067	Stn To Stn:	10312 To 10492	File To File	5211 To 5301
Reel Number:	L15401068	Stn To Stn:	10496 To 10592	File To File	5302 To 5351

Comments: Tapes 1 and 2 are Testing
Record length changed to 18,000 Mil at VP 5732



TRACE

Party No. # 401

AGSO

Northern Yilgarn Seismic Profiling 2001

Date Recorded: 13 To 15 August 2001

Observer: Wayne Arnold
Observer: Mike Bokor

01AGSNY2

Instrumentation

Recording System: Aram 24
Plotter: GS-612

Shooting System: Pelton Advance II Model 6
Geophone Model: OYO GS-32CT

Recording Parameters

Record Length:	16,000 Mil	Sample Rate:	2 ms.	Preamp Gain:	30 dB
Noise Edit Type:	None	Tape Format:	Seg Y	Tape:	32 Bit Floating Point
Low Cut Filter:	3 Hz	High Cut:	205 Hz	HPE Filter:	Out
Aux. Chan. #1:	Time Break	Aux. Chan. #2:	True Reference	Aux. Chan. #3:	W.L. Reference
CSM Process:	Correlate Before Stack	Stations in Gap:	0	No. of Chan.:	240 + 3 Aux

Receiver Parameters

Geophone Array:	12 Over 40 M	Geophone Frequency:	10 Hz
Geophone Wiring:	12 Phones Series/ Parallel	Geophone Base:	3" Spikes
Geophone Spacing:	3.33 M	Geophone Damping:	0.70%
Receiver Station Intervals:	40 M	No. of Receiver Lines:	1
Receiver Station Centre:	Mid Station	First Receiver On Line	1000
Direction of Recording:	East To West	Last Receiver On Line	2240

Source Parameters

Source Type:	IVI Hemi 60 Vibrator	Source Array Length:	60 M
Vibe Spacing:	15M	Vibe Move ups:	15 M
Source Point Intervals:	80 M	Number of Composites:	3
Sweep Length:	12,000 Mil	Sweep Taper:	200 Mil
Source Centre:	On Peg	Sweep Type:	Linear
Sweep # 1	7-56 Hz	Num Vibes On Line:	3
Sweep # 2	12-80 Hz	First Source Point:	1000
Sweep # 3	8-72 Hz	Last Source Point:	2196

3490E Tape Summary

Reel Number:	L15401028	Stn To Stn:	1000 To 1010	File To File:	2140 To 2051 ²¹⁵¹
Reel Number:	L15401029	Stn To Stn:	1000 To 1202	File To File:	2146 To 2247
Reel Number:	L15401030	Stn To Stn:	1204 To 1380	File To File:	2248 To 2335
Reel Number:	L15401031	Stn To Stn:	1382 To 1584	File To File:	2336 To 2437
Reel Number:	L15401032	Stn To Stn:	1586 To 1796	File To File:	2438 To 2539
Reel Number:	L15401033	Stn To Stn:	1798 To 1846	File To File:	2540 To 2564
Reel Number:	L15401034	Stn To Stn:	1848 To 2030	File To File:	2565 To 2647
Reel Number:	L15401035	Stn To Stn:	2032 To 2196	File To File:	2648 To 2708

Comments: Tape 28 is Testing. Line started with 240 channels active. Line ended with 240 active



TRACE
INTEGRATED GEOGRAPHIC DATA

AGSO

Northern Yilgarn Seismic Profiling 2001

Date Recorded: 28 August To 1 September 2001

Party No. # 401

01AGSNY3

Observer: Wayne Arnold
Observer: Mike Bokor

Instrumentation

Recording System: Aram 24
Plotter: GS-612

Shooting System: Pelton Advance II Model 6
Geophone Model: OYO GS-32CT

Recording Parameters

Record Length:	16,000 Mil	Sample Rate:	2 ms.	Preamplifier Gain:	30 dB
Noise Edit-Type:	None	Tape Format:	Seg-Y	Tape:	32-Bit-Floating-Point
Low Cut Filter:	3 Hz	High Cut:	205 Hz	HPE Filter:	Out
Aux. Chan. #1:	Time Break	Aux. Chan. #2:	True Reference	Aux. Chan. #3:	W.L. Reference
CSM Process:	Correlate Before Stack	Stations in Gap:	0	No. of Chan.:	240 + 3 Aux

Receiver Parameters

Geophone Array:	12 Over 30 M	Geophone Frequency:	10 Hz
Geophone Wiring:	12 Phones Series/ Parallel	Geophone Base:	3" Spikes
Geophone Spacing:	2.5 M	Geophone Damping:	0.70%
Receiver Station Intervals:	30 M	No. of Receiver Lines:	1
Receiver Station Centre:	Mid Station	First Receiver On Line:	1040
Direction of Recording:	South West To North East	Last Receiver On Line:	2794

Source Parameters

Source Type:	IVI Hemi 60 Vibrator	Source Array Length:	50 M
Vibe Spacing:	15M	Vibe Move ups:	10 M
Source Point Intervals:	30 M	Number of Composites:	3
Sweep Length:	8,000 Mil	Sweep Taper:	200 Mil
Source Centre:	On Peg	Sweep Type:	Linear
Sweep # 1:	8-72 Hz	Num Vibes On Line:	3
Sweep # 2:	12-100 Hz	First Source Point:	1040
Sweep # 3:	6-80 Hz	Last Source Point:	2794

3490E Tape Summary

Reel Number:	L15401069	Stn To Stn:	1040 To 1044	File To File	5352 To 5386
Reel Number:	L15401070	Stn To Stn:	1040 To 1145	File To File	5387 To 5492
Reel Number:	L15401071	Stn To Stn:	1146 To 1245	File To File	5493 To 5592
Reel Number:	L15401072	Stn To Stn:	1246 To 1351	File To File	5593 To 5698
Reel Number:	L15401073	Stn To Stn:	1352 To 1457	File To File	5699 To 5804
Reel Number:	L15401074	Stn To Stn:	1458 To 1563	File To File	5805 To 5910
Reel Number:	L15401075	Stn To Stn:	1564 To 1645	File To File	5911 To 5992
Reel Number:	L15401076	Stn To Stn:	1646 To 1856	File To File	5993 To 6098
Reel Number:	L15401077	Stn To Stn:	1858 To 2036	File To File	6099 To 6204
Reel Number:	L15401078	Stn To Stn:	2037 To 2124	File To File	6205 To 6292
Reel Number:	L15401079	Stn To Stn:	2126 To 2360	File To File	6293 To 6398
Reel Number:	L15401080	Stn To Stn:	2362 To 2502	File To File	6398 To 6467
Reel Number:	L15401081	Stn To Stn:	2504 To 2722	File To File	6468 To 6576
Reel Number:	L15401082	Stn To Stn:	2724 To 2794	File To File	6577 To 6612

Comments: Vibes changed to 60 m VP interval at 1646
Vibes changed to 30 m VP interval at 2004
Vibes changed to 60 m VP interval at 2124

Line started with 240 channels active
Line finished with 120 traces active



AGSO

Northern Yilgarn Seismic Profiling 2001

Sunrise Dam

Party No. # 401

Date Recorded: 3 To 4 September 2001

01AGSNY4

Observer: Wayne Arnold

Observer: Mike Bokor

Instrumentation

Recording System: Aram 24
Plotter: GS-612

Shooting System: Pelton Advance II Model 6
Geophone Model: OYO GS-32CT

Recording Parameters

Record Length:	16,000 Mil	Sample Rate:	2 ms.	Preamp Gain:	30 dB
Noise Edit Type:	None	Tape Format:	Seg Y	Tape:	32 Bit Floating Point
Low Cut Filter:	3 Hz	High Cut:	205 Hz	HPE Filter:	Out
Aux. Chan. #1:	Time Break	Aux. Chan. #2:	True Reference	Aux. Chan. #3:	W.L. Reference
CSM Process:	Correlate Before Stack	Stations in Gap:	0	No. of Chan.:	240 + 3 Aux

Receiver Parameters

Geophone Array:	12 Over 40 M	Geophone Frequency:	10 Hz
Geophone Wiring:	12 Phones Series/ Parallel	Geophone Base:	3" Spikes
Geophone Spacing:	3.33 M	Geophone Damping:	0.70%
Receiver Station Intervals:	40 M	No. of Receiver Lines:	1
Receiver Station Centre:	Mid Station	First Receiver On Line	1000
Direction of Recording:	West To East	Last Receiver On Line	1536

Source Parameters

Source Type:	IVI Hemi 60 Vibrator	Source Array Length:	60 M
Vibe Spacing:	15M	Vibe Move ups:	15 M
Source Point Intervals:	80 M	Number of Composites:	3
Sweep Length:	12,000 Mil	Sweep Taper:	200 Mil
Source Centre:	On Peg	Sweep Type:	Linear
Sweep # 1	7-56 Hz	Num Vibes On Line:	3
Sweep # 2	12-80 Hz	First Source Point:	1004
Sweep # 3	8-72 Hz	Last Source Point:	1536

3490E Tape Summary

Reel Number:	L15401083	Stn To Stn:	1074 To 1082	File To File:	6613 To 6627
Reel Number:	L15401084	Stn To Stn:	1004 To 1224	File To File:	6628 To 6733
Reel Number:	L15401085	Stn To Stn:	1226 To 1300	File To File:	6734 To 6770
Reel Number:	L15401086	Stn To Stn:	1302 To 1516	File To File:	6771 To 6876
Reel Number:	L15401087	Stn To Stn:	1517 To 1536	File To File:	6877 To 6885

Comments: Tape 83 is Testing. Line started with 240 channels active. Line ended with 240 active



Dynamic

Satellite

Surveys

01-66

*Final Operations Report
on the*

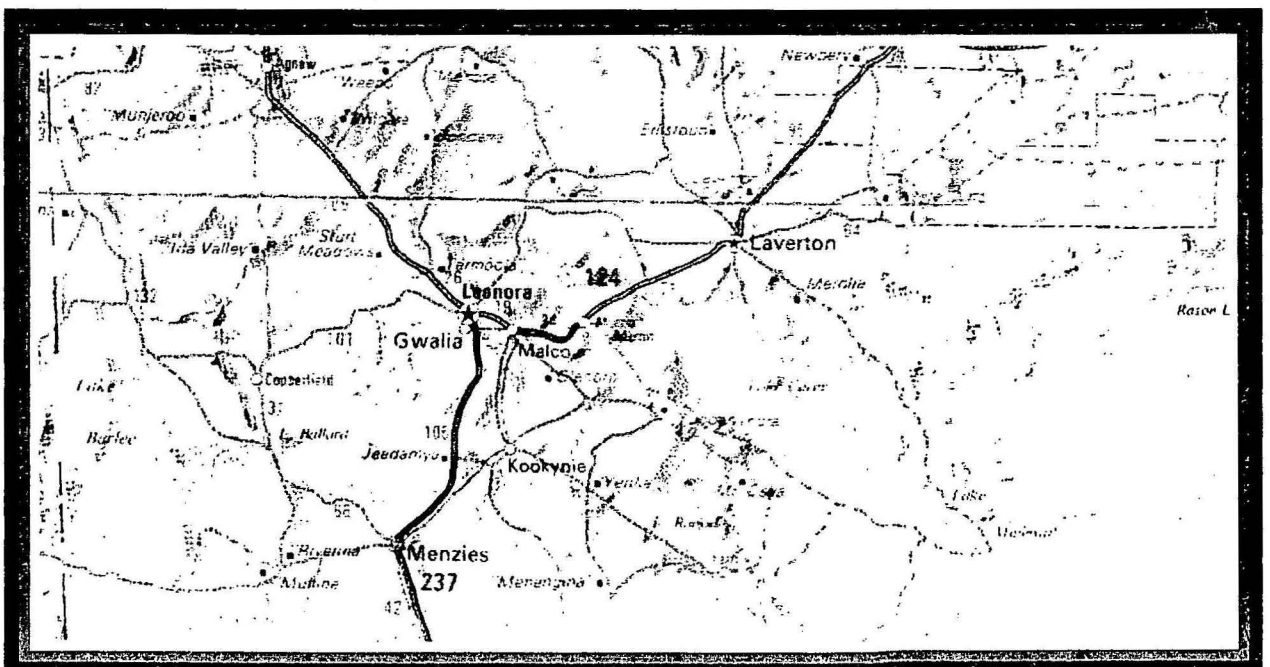
**Australian Geological Survey
Organisation**

2001 Yilgarn 2D Seismic Survey

for

**TRACE ENERGY
SERVICES PTY LTD**

July - August 2001



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Table of Contents

INTRODUCTION	1
INSTRUMENTATION AND PERSONNEL	2
2.1 Personnel	2
2.2 Equipment	2
2.3 Logistics	3
SURVEY REFERENCE SYSTEMS	4
3.1 Geodetic Datum	4
3.1.1 Geocentric Datum of Australia (GDA)	4
3.2 Map Projection	4
3.2.1 MGA94 Projections	4
3.3 Height Datum	5
SURVEY CONTROL	7
4.1 Datum	7
MONUMENTATION	8
METHOD OF SURVEY	9
6.1 GPS Static Surveying	9
6.2 RT20 Surveying	9
6.2 GPS Processing and Quality Control	10
DATA PRESENTATION	11
SAFETY	12
OPERATIONAL ASPECTS	13
CONCLUSIONS AND RECOMMENDATIONS	14
APPENDICES	15
Control Survey, Miscloses and Ties	A - 1
Control Network Diagram	B - 1
New Permanent Marker Listing	C - 1
Survey Base Locations	D - 2
Chaining Maps	E - 1
Photographs	F - 1

1



INTRODUCTION

The following report covers the **2001 Yilgarn Deep Seismic Survey (2D)**, performed by **Dynamic Satellite Surveys Pty Ltd (DSS)** whilst contracted to **Trace Energy Services Pty Ltd** for **Australian Geological Survey Organisation (AGSO)**.

The survey operation consisted of four seismic lines in central WA from the town sites of Leonora and Laverton, heading further eastwards.

The survey commenced on the 28th of July and was completed on the 30th August, 2001.

LINE	Stn From	Stn To	Distance	
01AGSNY1	992	10592	384.00	@40m SI
01AGSNY2	1000	2746	69.84	@40m SI
01AGSNY3	1040	2794	52.62	@30m SI
01AGSNY4	1000	1536	21.44	@40m SI
		TOTAL	527.9 Km	

2



INSTRUMENTATION AND PERSONNEL

2.1 Personnel

DSS personnel involved in the survey were as follows.

- Tom Pickett - Bachelor of Surveying - Curtin University of Technology
(Surveying, Processing, Report Writing), 6 Years experience.
- Maree Davey - Field Assistant with 3 years Seismic experience.

2.2 Equipment

Equipment provided by DSS and used on this project.

	Description	Quantity
Vehicles	Toyota Landcruiser. Hired	2
GPS Receivers	NovAtel - 3151RT20	3
Computers	Mitac Pentium Portable PC	1
	GRiD 386 Field PC	3
Software	Waypoint GPS post-processing	1
	DSS MIB for Windows QC	1
Printer	HP DeskJet 340	1

	Description	Quantity
Miscellaneous	Sundry office and transport equipment	
	Field and Office Consumables	

2.3 Logistics

Personnel and equipment logistics were supported by the DSS Yeppoon office.

Due to the nature of the survey the survey personnel lived independently from the main seismic crew. Survey operations were based from a hired caravan and personnel were required to relocate seven times throughout the duration of the project.

3



SURVEY REFERENCE SYSTEMS

3.1 Geodetic Datum

3.1.1 Geocentric Datum of Australia (GDA)

The Geocentric Datum of Australia 1994 (GDA94) is based on the Geodetic Reference System 1980 (GRS80) model which is described below.

<i>Datum:</i>	GDA94 (Geocentric Datum of Australia)
<i>Spheroid:</i>	GRS80 (Geodetic Reference System)
<i>Reference Frame:</i>	ITRF92 (International Terrestrial Reference Frame)
<i>Semi-Major Axis Length:</i>	6 378 137.0
<i>Inverse Flattening:</i>	298.257222101
<i>The Unit of Measure:</i>	International Metre

3.2 Map Projection

3.2.1 MGA94 Projections

Parameters used for the calculation of the MGA94 projection are below.

<i>Projection:</i>	Zone 51
<i>Latitude of Origin:</i>	0°
<i>Central Meridian (CM):</i>	123° E
<i>Scale Factor at CM:</i>	0.9996
<i>False Easting:</i>	500 000
<i>False Northing:</i>	10 000 000
<i>Unit of Measure:</i>	International Metre

3.3 Height Datum

All elevations obtained relative to GDA94 have been reduced to the Australian Height Datum (AHD) using the **AUSGEOID98** Geoid - Spheroid separation model to determine the geoid-ellipsoid separation (N) for the particular area.

GPS observations are made on the GDA94 datum. The height associated with this datum is an ellipsoidal height (h). The Australian Height Datum (AHD), is an orthometric height which is measured as the height above mean sea level, or the geoid (H).

The function that defines the relationship between the ellipsoidal and orthometric heights is:

$$H = h - N$$

or

$$\text{AHD} = \text{WGS84} - \text{Geoid-Ellipsoid Separation.}$$

AUSGEOID98 is the third in a series of national geoid models produced for Australia by the Australian Surveying and Land Information Group (AUSLIG). The geoid-ellipsoid data is prepared for the Australian region from:

- EGM96 Global Geopotential Model;
- 1996 Australian Gravity database, from the Australian Geological Survey Organisation (AGSO);
- AUSLIG / AGSO GEODATA nine-second digital elevation model;
- Satellite altimeter-derived free air gravity anomalies offshore;
- Theories, techniques and software developed by Associate Professor Will Featherstone, Curtin University of Technology¹.

AUSGEOID98 N values were obtained using the WINTER interpolation software, distributed by AUSLIG.

¹ Johnston, G.M., Featherstone, W.E. (1998) AUSGEOID98: A New Gravimetric Model for Australia

4



SURVEY CONTROL

4.1 Datum

The datum for the prospect was based upon the survey marks LEN 115, LAV 48 and BM XO103.

The coordinates of these station's are as follows.

Station Name	Easting	Northing	Height (AHD)	Comment
LEN 115	337902.455	6801276.362	449.149	1 st Hz, 3 rd Ht
LAV 48	442428.965	6833421.506	456.178	3 rd Hz, 3 rd Ht
BM XO103			368.385	3 rd Order

These marks were used and calculated within a network of all survey control points.

- ◆ LEN 115 was situated near the town site of Leonora
- ◆ LAV 48 was situated near the town site of Laverton
- ◆ BM XO103 was near the end of line 01AGSNY1, Serpentine Lakes Road

Various survey marks were tied within the network and can be seen in **Appendix A - Control Survey, Miscloses and Ties.**

See **Appendix B - Control Network Diagram** for graphical representation.

See **Appendix D - Survey Base Locations** for graphical descriptions.

5



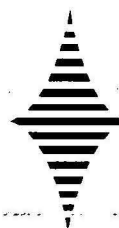
MONUMENTATION

A total of 29 Permanent Markers were placed in the survey. These marks all had GPS static observations and were used for the setout of the seismic lines.

Permanent markers consisted of a star picket with an aluminium tag stating line name and station number.

A coordinate listing of all these permanent markers is contained in **Appendix C - Permanent Markers Listing**. The list of new permanent markers is included in the digital data supplied to the client as file named PMS.xls (excel format).

6



METHOD OF SURVEY

6.1 GPS Static Surveying

This method of survey involves setting up one GPS receiver over a point of known position and another receiver over a point to be coordinated. Both receivers continuously log satellite phase data simultaneously. The length of the observation period required for this method is dependent upon the accuracy desired, the type of GPS receiver used (single or dual frequency), satellite geometry at the time of survey and the length of the line being observed. To achieve an accuracy of 5mm $\pm$ 1ppm over distances of 15km or less, typically observation periods are 30 - 40 minutes for single frequency receivers. This method is the most accurate method of GPS survey and was used for the control setout of Permanent Markers.

Processing of GPS phase data is carried out using the latest version of GrafNet or GrafNav (currently version 6.02) software developed by Waypoint Consulting of Canada. All factors indicating the quality of the obtained solutions are monitored during processing.

6.2 RT20 Surveying

The lines were surveyed using DSS' RT20 real-time kinematic surveying technique. RT20 enables both position and elevation coordinates to be acquired in real time and on the appropriate datum.

The survey method utilised phase data received from US Navy NAVSTAR Satellites to provide three-dimensional positioning. One receiver was set up as a base station at a known location (as per the survey network shown in **Appendix B - Control Network Diagram**), while other receivers were used as remote rovers.

NovAtel real-time kinematic can achieve accuracies of better than $\pm 0.3\text{m}$ in position and elevation depending on base line length. The expected precision for locating pegged positions is better than 0.3 metres in both elevation and height relative to the base station used and is generally better than 0.2 metres.

Initialisation of the RT20 rover GPS usually takes as little as 2-3 minutes, although this is greatly dependant on satellite geometry, availability, and base line length.

A method designed by DSS was utilised to obtain a constant interval of 40m. This field program operates by a constant radial calculation from the previous recorded observation, to obtain the next location point. This approach was required as all lines were quite crooked.

The field data was edited into line files and examined for quality control.

6.2 GPS Processing and Quality Control

When using RT20, all data is recorded internally in GRiD palmtop data loggers and then downloaded to the office computer each evening. Quality of the satellite data was monitored by careful examination of the various on-screen quality control statistics produced by DSS' software. These checks on data integrity are in the form of standard deviation (or sigma) values for latitude, longitude and height and are generally better than 0.2 metres.

The coordinates were then checked using a chaining check routine developed by DSS that calculates line bearing and compares calculated peg distance with actual peg distance. Points outside specified distance and azimuth tolerances are flagged for further investigation and re-surveyed as necessary.

Profile plots were examined to identify any height anomalies.

7



DATA PRESENTATION

On completion of the survey a full digital set of data was presented to both Trace and AGSO.

File	Description	Format
01AGSNY?.CHK	DSS chaining check.	- Ascii
01AGSNY?.CRD	All points along line (E,N,RL).	- ascii
PMS.xls	A full listing of Permanent Markers.	- excel spreadsheet
TIES.xls	A listing of all survey ties and misclose.	- excel spreadsheet

These files are all backed up on digital disks in the Yeppoon Office for future reference.

8



SAFETY

DSS personnel are aware of safety conditions concerning all exploration seismic surveys. DSS safety guidelines were followed at all times.

DSS personnel attended all site specific safety inductions required through various mine sites.

Each DSS vehicle was fitted with a satellite phone, UHF radio, fire extinguisher, first-aid kit, vehicle recovery equipment and weekly vehicle maintenance check lists.

No LTIs (Lost Time Injuries), no near misses and no accidents were reported for the survey.

9



OPERATIONAL ASPECTS

In general field operations for the survey went very smoothly.

A total of 527.90 km of seismic line was surveyed in 34 days, giving a production rate of 15.6 km/day. This exceeded the expected amount as the access along the roads proved to be excellent.

A total of seven camp moves was required to complete the survey, which when properly organised did not hinder on production rates.

The terrain and vegetation allowed easy RT20 real-time kinematic GPS observations. Few points were unreadable due to tree cover blocking the GPS signal. Where this was the case the missed points were either readily interpolated from the data collected or a separate observation made for the elevation of the point.

10



CONCLUSIONS AND RECOMMENDATIONS

The seismic survey was very suitable to RT20 GPS pegging and DSS surveying techniques.

DSS provided enough people to efficiently complete the job in a safe manner. This was evident as DSS had a lead time of five days over recording at the beginning of the survey which it maintained until the conclusion.

There was no lack of communication between all field personnel, as both Trace and DSS knew at what stage each section was at.

The survey control network tied in well with the surrounding marks and all new points of the survey met the required survey tolerances.

All data from DSS jobs are archived in the Yeppoon office and can be reproduced as necessary.

Submitted by,

Tom Pickell

11



APPENDICES

Control Survey, Miscloses and Ties

AGSO / Trace Energy Services

GDA94 MGA, UTM projection, AMG Zone 51 CM=123

YILGARN 2001 Seismic Survey

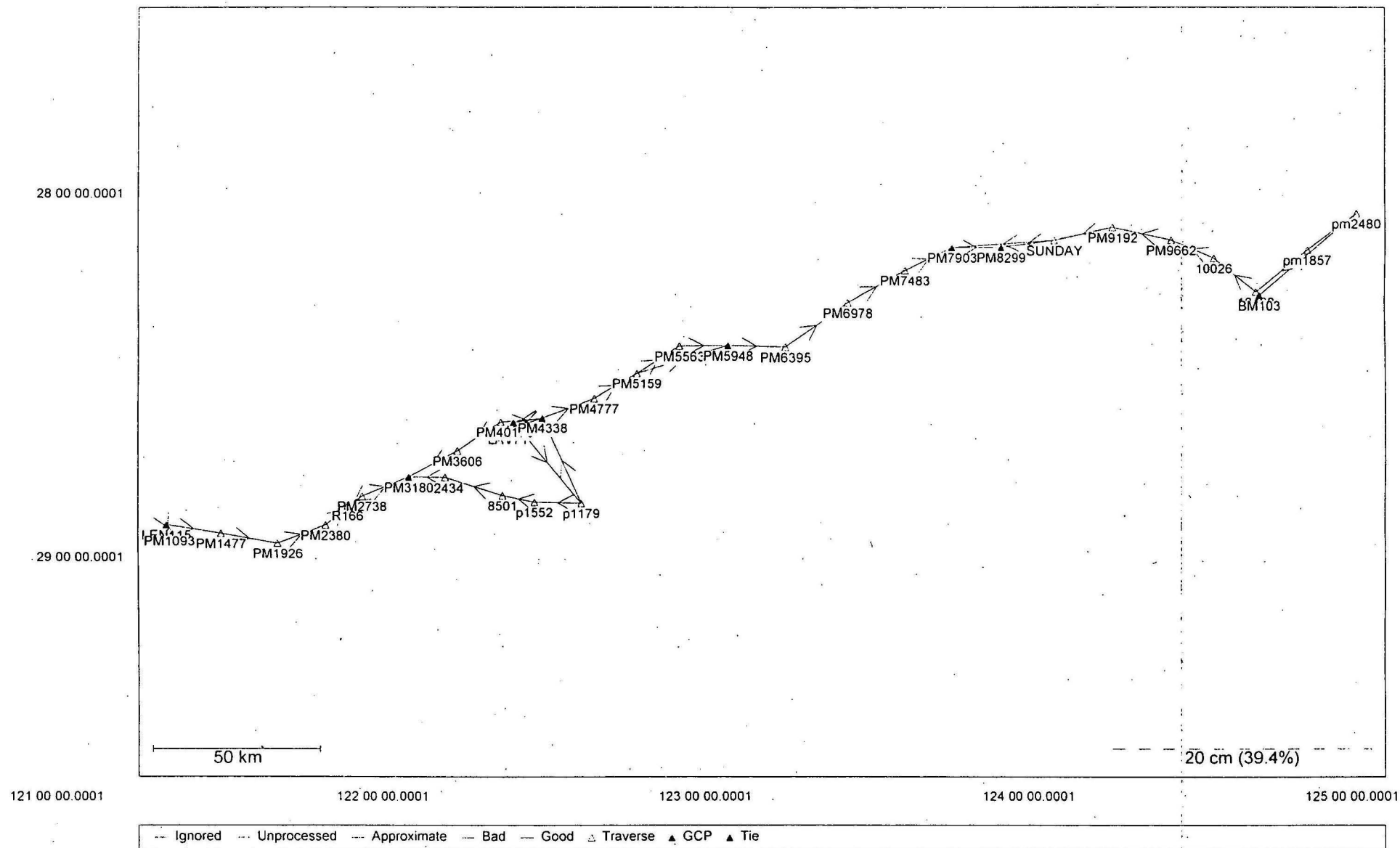
SURVEY TIES AND MISCLOSE

Survey Mark	Easting	Northing	Elevation	Comments
SSM LAV79	357746.240	6799140.410	371.734	1st,3rd order
SSM LAV79	357746.100	6799140.400	371.800	RT20 day211
Misclose	-0.140	-0.010	0.066	
SSM R166	391996.825	6807914.929	475.663	1st,3rd order
SSM R166	391996.885	6807914.921	475.490	Static Network Loop
Misclose	0.060	-0.008	-0.173	
SSM LAV70	427171.124	6825920.231	456.757	1st,3rd order
SSM LAV70	427171.000	6825920.500	456.900	RT20 day216
Misclose	-0.124	0.269	0.143	
SSM LAV71	440708.954	6831374.089		2nd,NO order
SSM LAV71	440708.988	6831374.108	508.810	Static Network Loop
Misclose	0.034	0.019		
SSM LAV16	446149.629	6833967.332		2nd, NO order
SSM LAV16	446149.600	6833967.500	469.600	RT20 day217
Misclose	-0.029	0.168		
Stn 8501	439103.741	6811270.953	441.863	AMG 84 - Granny Smith
Stn 8501	439241.873	6811428.761	441.514	MGA 94 day222
			-0.349	
Pt Sunday	606430.941	6888545.193	435.428	static 232 AY 201 ??
BM ZW96	354096.4	6798954.3	384.1	near PM1477+11
WMC mark ??	581079.6	6887240.2	416.2	RT20 day231
BM XO122	594432.0	6887026.5	425.1	RT20 day231

Survey Mark	Easting	Northing	Elevation	Comments
BM XO120			402.6	3rd Order
BM XO120	604025.6	6888445.2	402.4	RT20 day233
Misclose			-0.2	
BM XO118			391.2	3rd Order
BM XO118	613312.5	6890443.0	390.9	RT20 day233
Misclose			-0.3	
BM XO103			368.4	3rd Order
BM XO103	668312.2	6870942.6	368.6	RT20 day237
Misclose			0.2	
Well NJD1	688218.5	6888141.0	346.0	stn 2064+17 01AGSNY3
	688234.5	6888140.7	346.0	water bore
TD3 (AMG84)	446430.4	6783144.3	407.3	Sunrise Dam
TD3	446430.3	6783144.2	407.4	RT20 day242
	-0.1	-0.0	0.1	

Control Network Diagram

Traverse - Map



New Permanent Marker Listing

AGSO / Trace

GDA94 / MGA, UTM projection, AMG Zone 51, CM=123

YILGARN 40.00m

Permanent Markers

Line Name	Station	Easting	Northing	Elevation	Comments
01AGSNY1	PM1093	338797.91	6799530.69	374.13	Sons Of Gwalia Fence
	PM1477+11	354096.58	6798953.25	384.07	Rail Xing
	PM1926+18	371000.74	6796086.00	377.04	16km East of Malcolm
	PM2380+22	385363.25	6801860.63	431.45	grid, Minara H.S.
	PM2738+3	396316.15	6810870.07	432.62	
	PM3180+13	410557.88	6816685.22	428.23	Mt Morgans Haulroad
	PM3606+20	425319.36	6824655.52	412.93	
	PM4017+35	438624.81	6833466.58	451.32	3km West of Laverton
	PM4338+24	451169.03	6834817.28	486.47	9km East Of Laverton
	PM4777+6	466842.00	6840829.44	488.23	
	PM5159+7	479661.97	6848483.18	486.79	2km East of Pt Kidman grid
	PM5563+23	492619.96	6856731.13	497.17	White Cliffs grid
	PM5948+32	507351.53	6856940.73	511.77	
	PM6395+9	524565.44	6856451.42	501.78	
	PM6978+7	543348.79	6869812.49	426.91	
	PM7483+18	560796.36	6879679.72	452.80	7km West of Yamarna H.S.
	PM7903+20	575188.24	6886604.16	472.25	10km East of Yamarna H.S.
	PM8299+10	590159.07	6886567.20	398.45	
	PM8707+29	605866.26	6888632.71	408.24	Yeo Lakes Nat. Reserve
	PM9192	624296.75	6892321.99	372.18	5.5km West of Yeo H.S.
	PM9662+31	641862.72	6888255.97	372.02	
	PM10026+5	654797.36	6882577.84	366.14	
	PM10460+34	667305.70	6872016.33	365.51	xing 01AGSNY3
01AGSNY2	PM1179+13	462966.84	6809117.38	453.06	
	PM1552+16	448838.70	6809421.68	415.73	powerline
	PM2434+30	421690.56	6816652.88	402.62	Mt Margaret Road
	PM2740+20	410557.88	6816685.22	428.23	xing 01AGSNY1
01AGSNY3	PM1160	667305.70	6872016.33	365.51	xing 01AGSNY1
	PM1857+3	683210.87	6884628.23	344.16	
	PM2480+22	698115.13	6895497.70	394.26	
01AGSNY4	PM1121+14	446420.12	6781210.11	404.03	AMG Sunrise Dam road
	PM1346+11	454683.64	6784297.91	454.83	AMG fence

Survey Base Locations

01-AGSNY1



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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: LEN 115

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-2 Laverton

Horizontal Control Information

Easting: **337 902.455**

Northing: **6 801 276.362**

Datum: **MGA94** Zone: **51**

Accuracy: **3ppm**

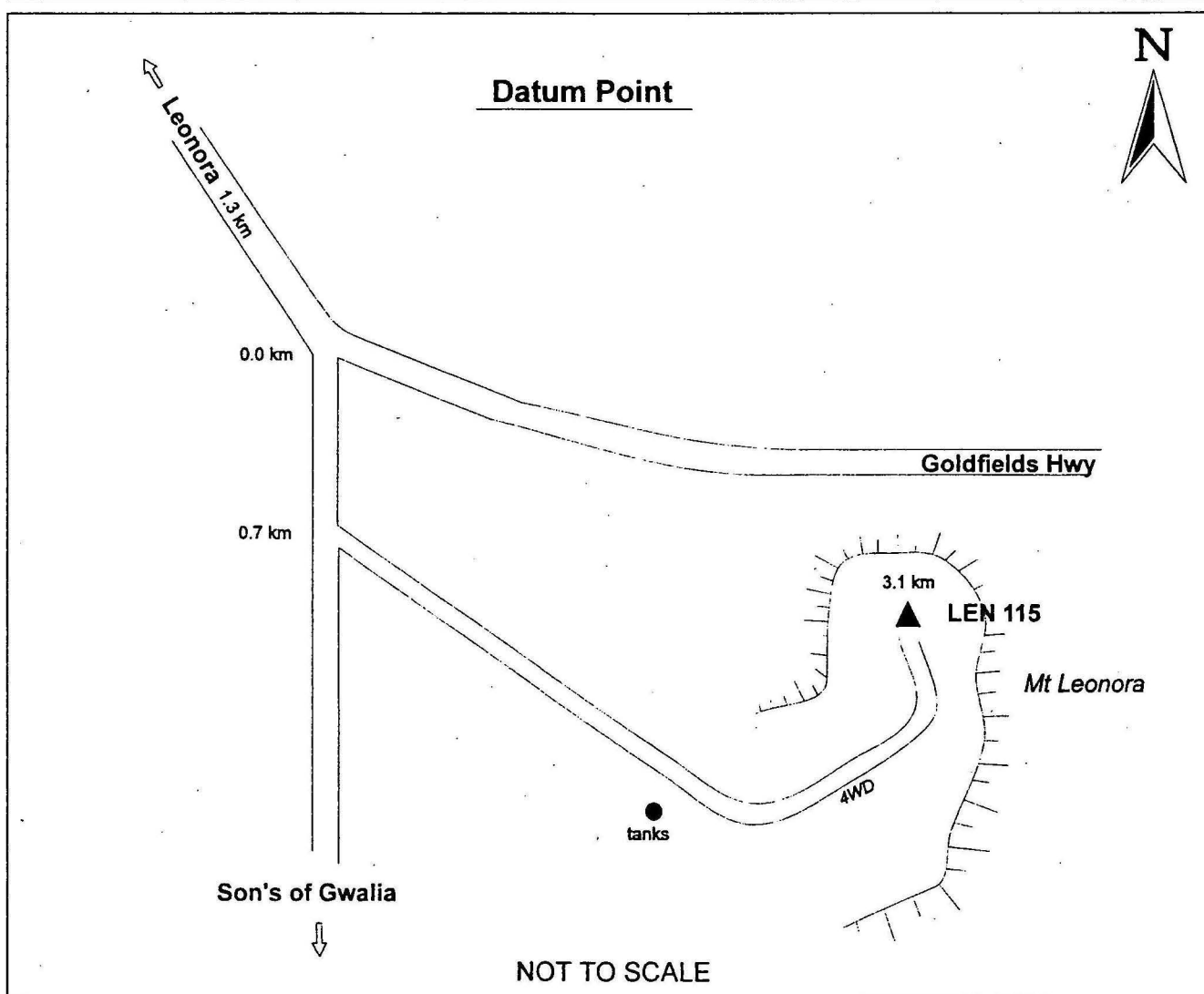
Vertical Control Information

RL: **449.149**

Datum: **AHD**

Accuracy: **12√K**

Mark Description: **Brass Plaque set in concrete.**





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15
REV 6.0
Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1093 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-1 Leonora

Horizontal Control Information

Easting: **338 797.91**

Northing: **6 799 530.69**

Datum: **MGA94** Zone: **51**

Origin: **LEN 115 / LAV 48**

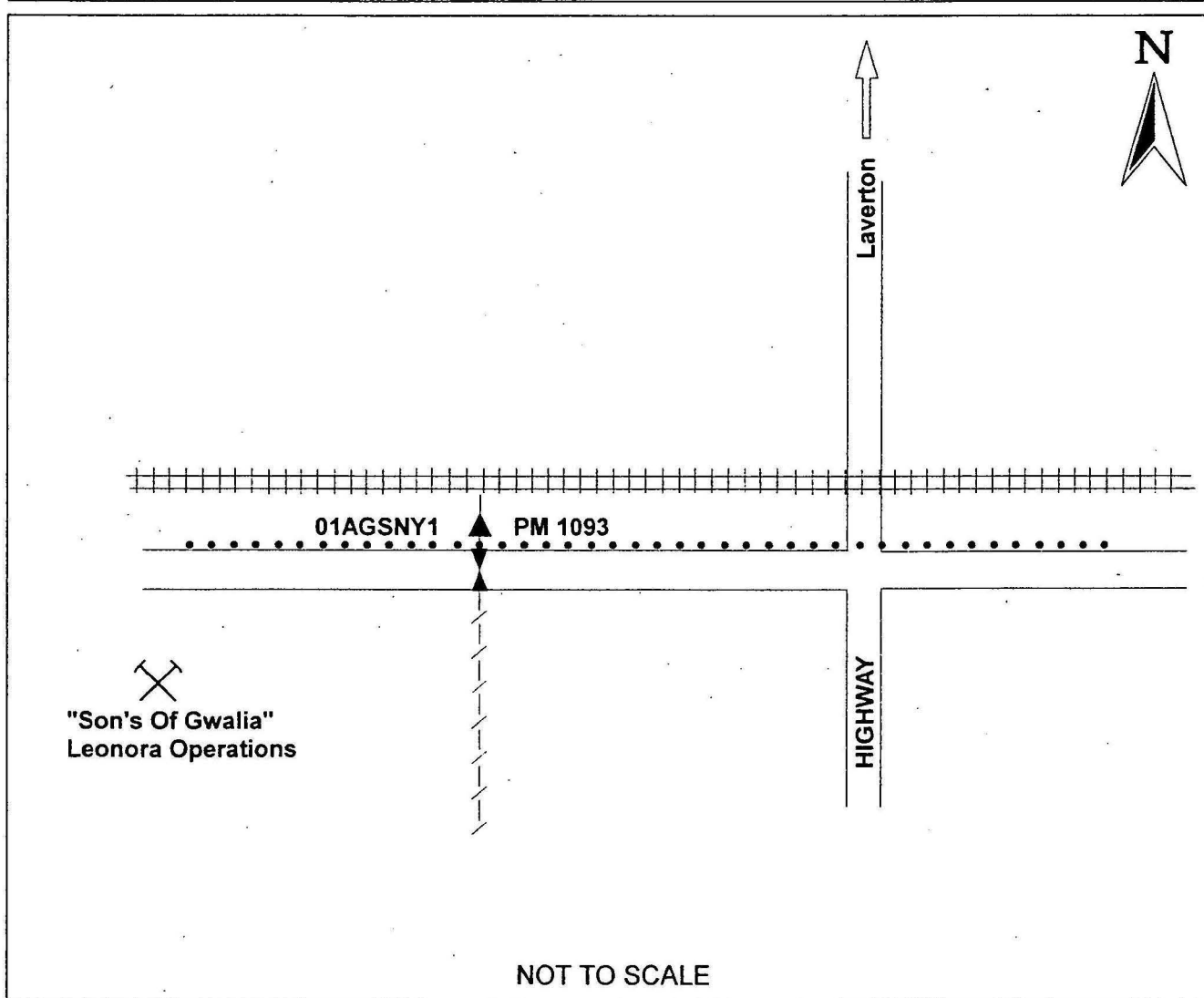
Vertical Control Information

RL: **374.13**

Datum: **AHD**

Origin: **LEN 115 / LAV48**

Mark Description: **Star Picket**





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01- 66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1477+11 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-1 Leonora

Horizontal Control Information

Vertical Control Information

Easting: 354 096.58

RL: 384.07

Northing: 6 798 953.25

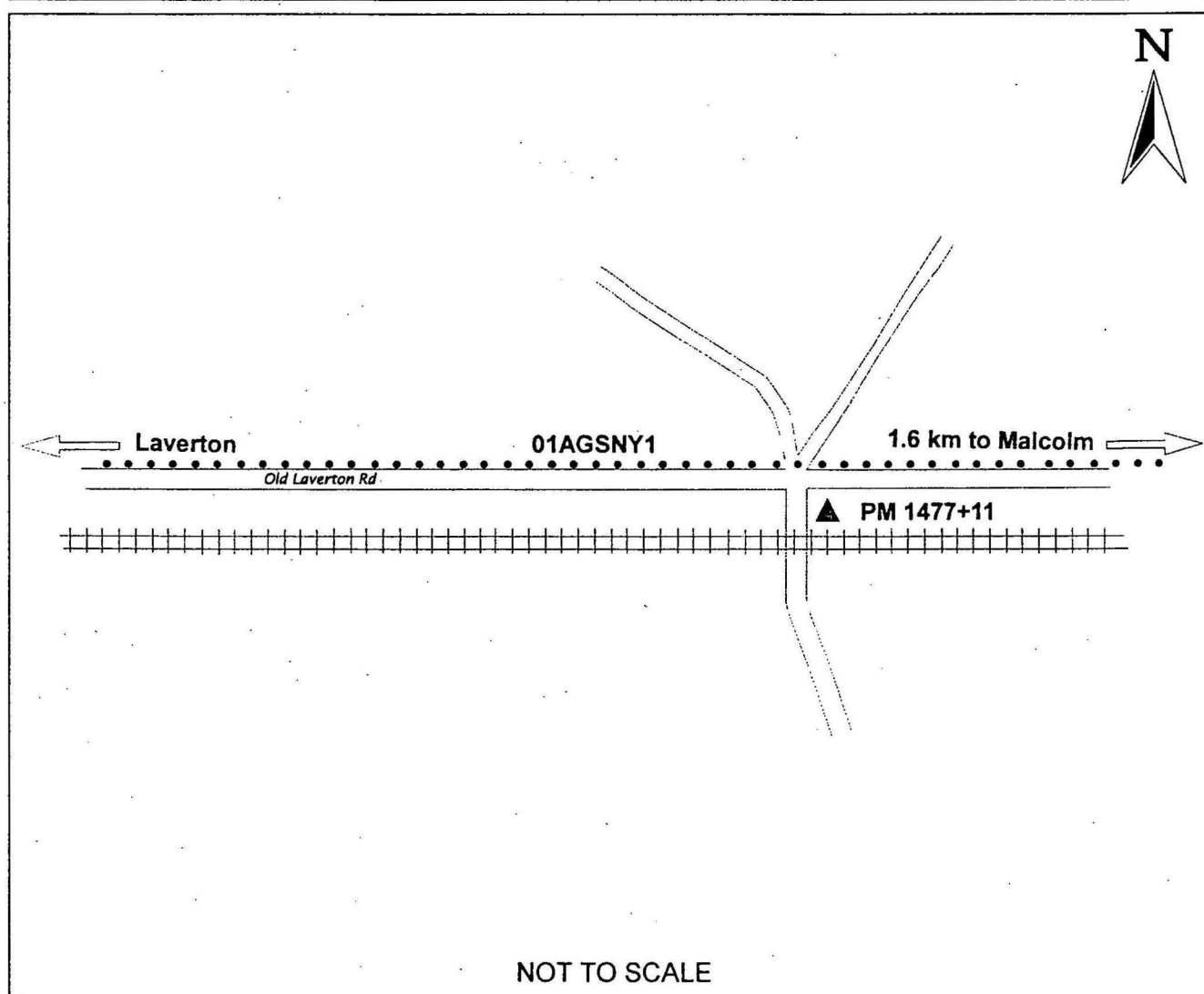
Datum: AHD

Datum: MGA94 Zone: 51

Origin: LEN 115 / LAV48

Origin: LEN 115 / LAV48

Mark Description: Star Picket





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01- 66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1926+18 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: 371 000.74

RL: 377.04

Northing: 6 796 086 .00

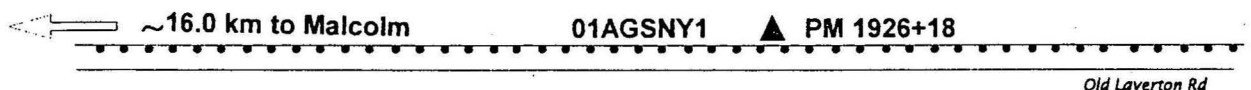
Datum: AHD

Datum: MGA94 Zone: 51

Origin: LEN 115 / LAV48

Origin: LEN 115 / LAV48

Mark Description: Star Picket



NOT TO SCALE



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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 2380+22 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Easting: **385 363.25**

Northing: **6 801 860.63**

Datum: **MGA94** Zone: **51**

Origin: **LEN 115 / LAV48**

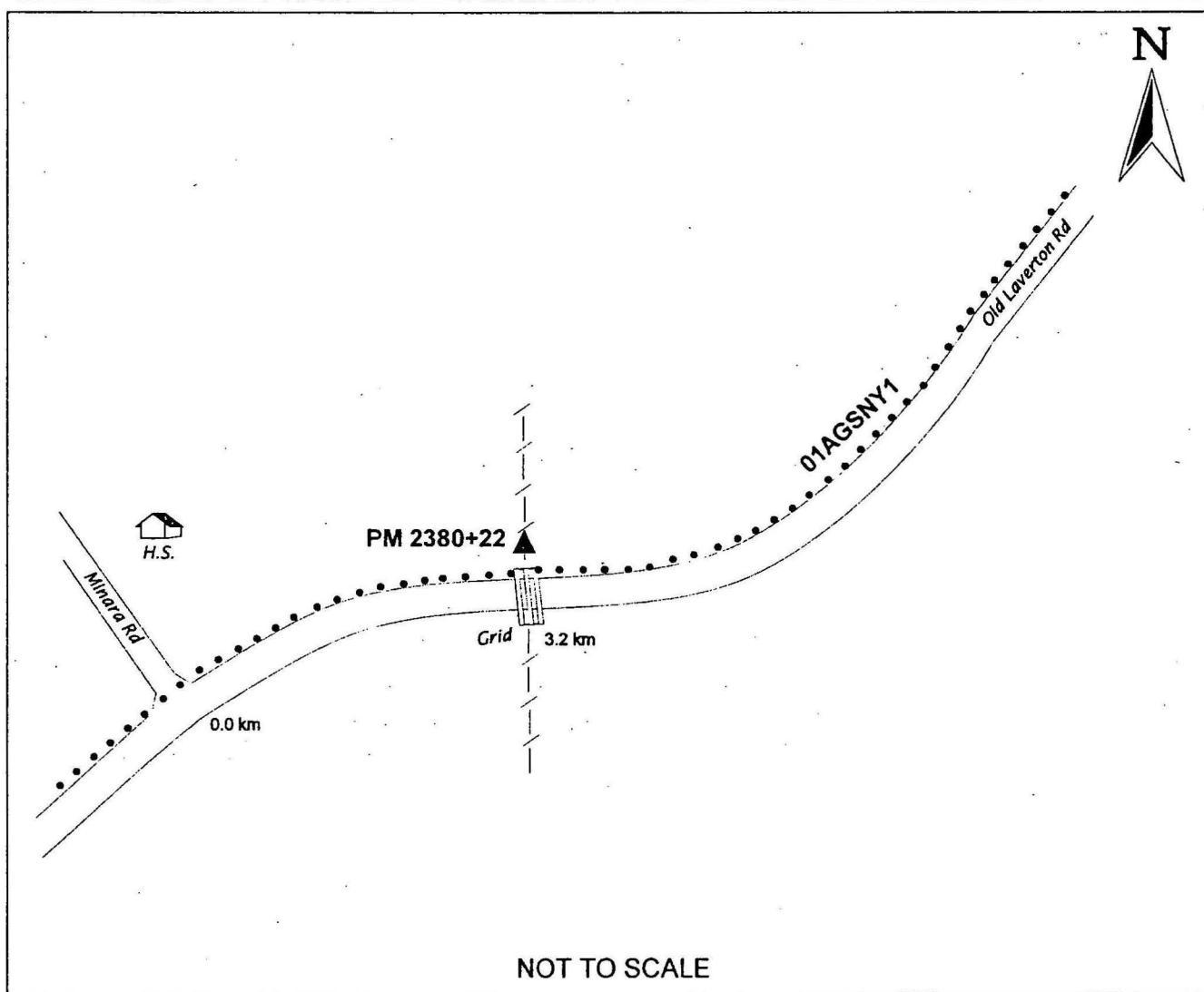
Vertical Control Information

RL: **431.45**

Datum: **AHD**

Origin: **LEN 115 / LAV48**

Mark Description: **Star Picket**





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01- 66 CLIENT AGSO / Trace Energy

STATION NAME: PM 2738+3 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Easting: **396 316.15**

Northing: **6 810 870.07**

Datum: **MGA94** Zone: **51**

Origin: **LEN 115 / LAV48**

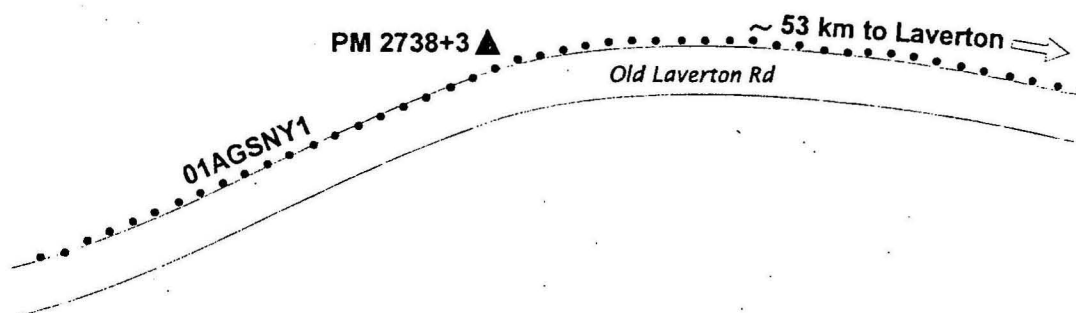
Vertical Control Information

RL: **432.62**

Datum: **AHD**

Origin: **LEN 115 / LAV48**

Mark Description: **Star Picket**



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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 3180+13 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: **410 557.88**

RL: **428.23**

Northing: **6 816 685.22**

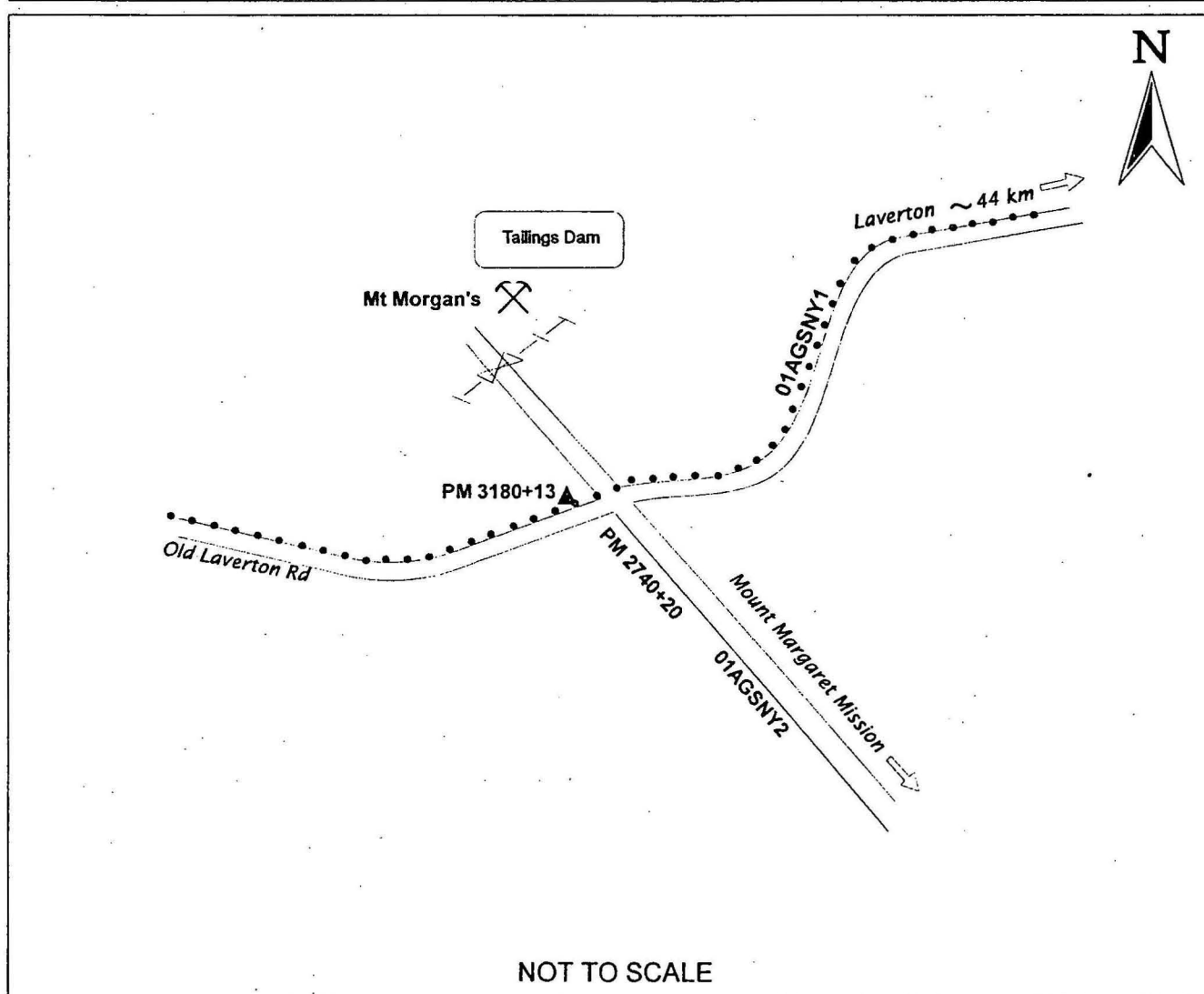
Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LEN 115 / LAV48**

Origin: **LEN 115 / LAV48**

Mark Description: **Star Picket**





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STATION LOCATION DIAGRAM

DSS-FF-15
REV 6.0
Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 3606+20 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-2 Laverton

Horizontal Control Information

Easting: 425 319.36

Northing: 6 824 655.52

Datum: MGA94 Zone: 51

Origin: LEN 115 / LAV48

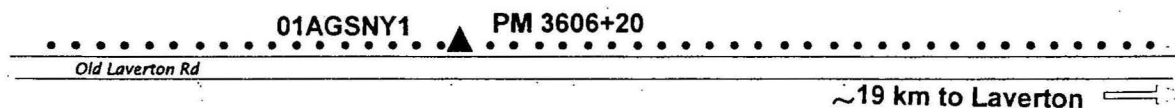
Vertical Control Information

RL: 412.93

Datum: AHD

Origin: LEN 115 / LAV48

Mark Description: Star Picket



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STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 4017+35 (01AGSNY1)

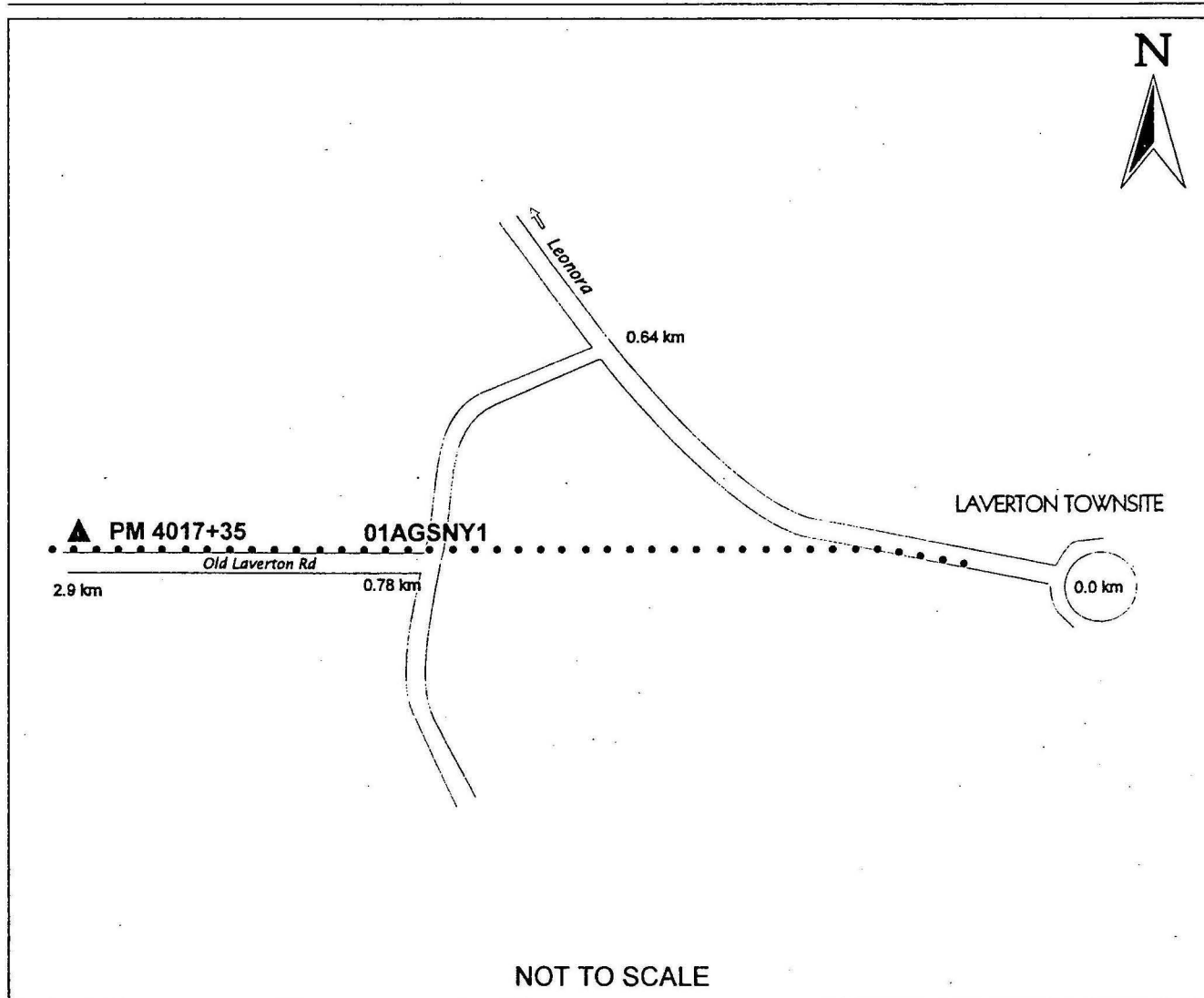
AREA: Yilgarn 2001 Seismic MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: 438 624.81	RL: 451.129
Northing: 6 833 466.58	Datum: AHD
Datum: MGA94 Zone: 51	Origin: LEN 115 / LAV48
Origin: LEN 115 / LAV48	

Mark Description: Star Picket





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S_{atellite}

S_{urveys}

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01- 66 CLIENT AGSO / Trace Energy

STATION NAME: PM 4338+24 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: **451 169.03**

RL: **486.47**

Northing: **6 834 817.28**

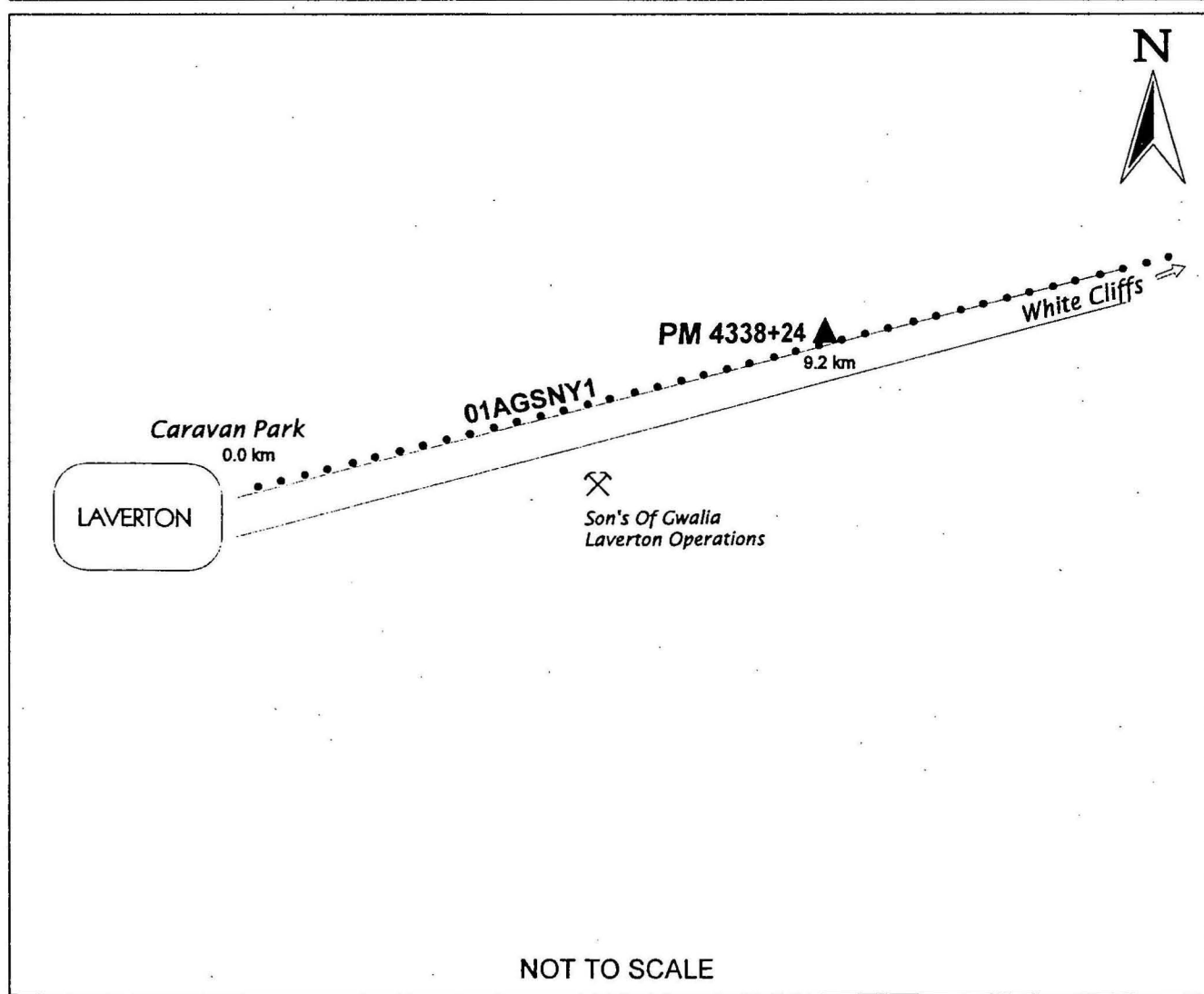
Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LAV 48 / BM XO103**

Origin: **LAV48**

Mark Description: **Star Picket**





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 4777+6 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: 466 842.00

RL: 488.23

Northing: 6 840 829.44

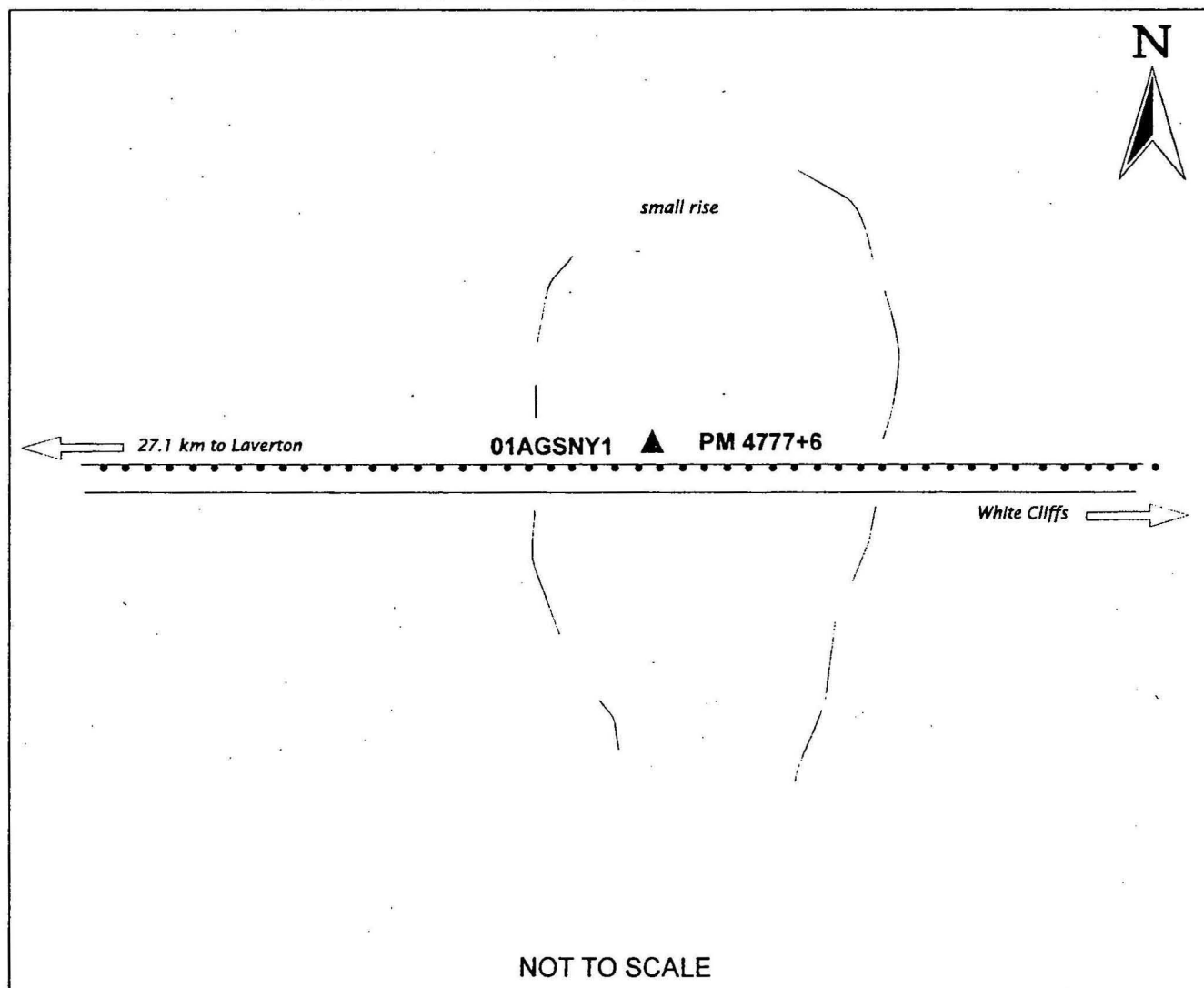
Datum: AHD

Datum: MGA94 Zone: 51

Origin: LAV 48 / BM XO103

Origin: LAV 48

Mark Description: Star Picket





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STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 5159+7 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: **479 661.97**

RL: **486.79**

Northing: **6 848 483.18**

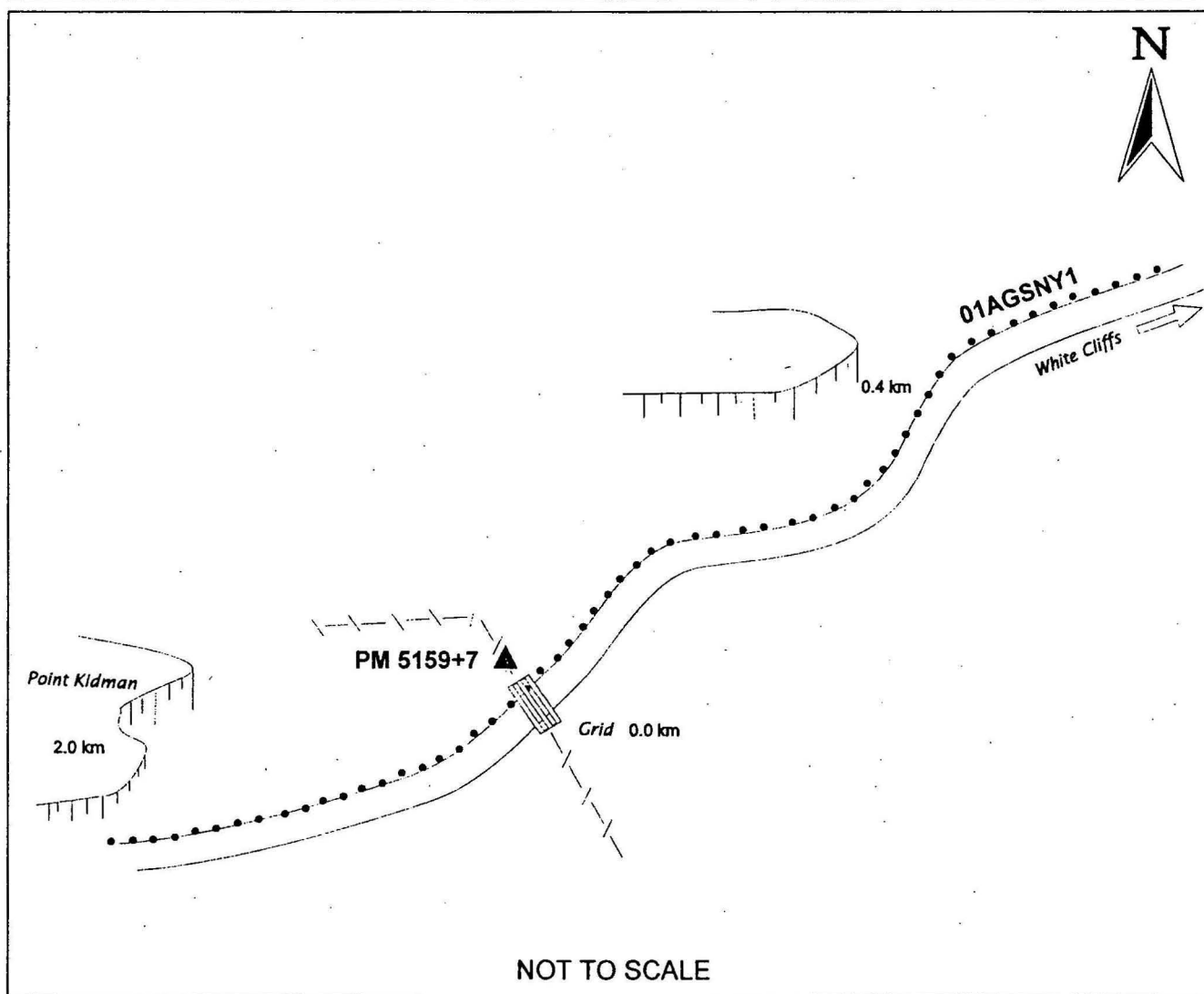
Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LAV 48 / BM XO103**

Origin: **LAV 48**

Mark Description: **Star Picket**





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S_{atellite}

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STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 5563+23 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: **492 619.96**

RL: **497.17**

Northing: **6 856 731.13**

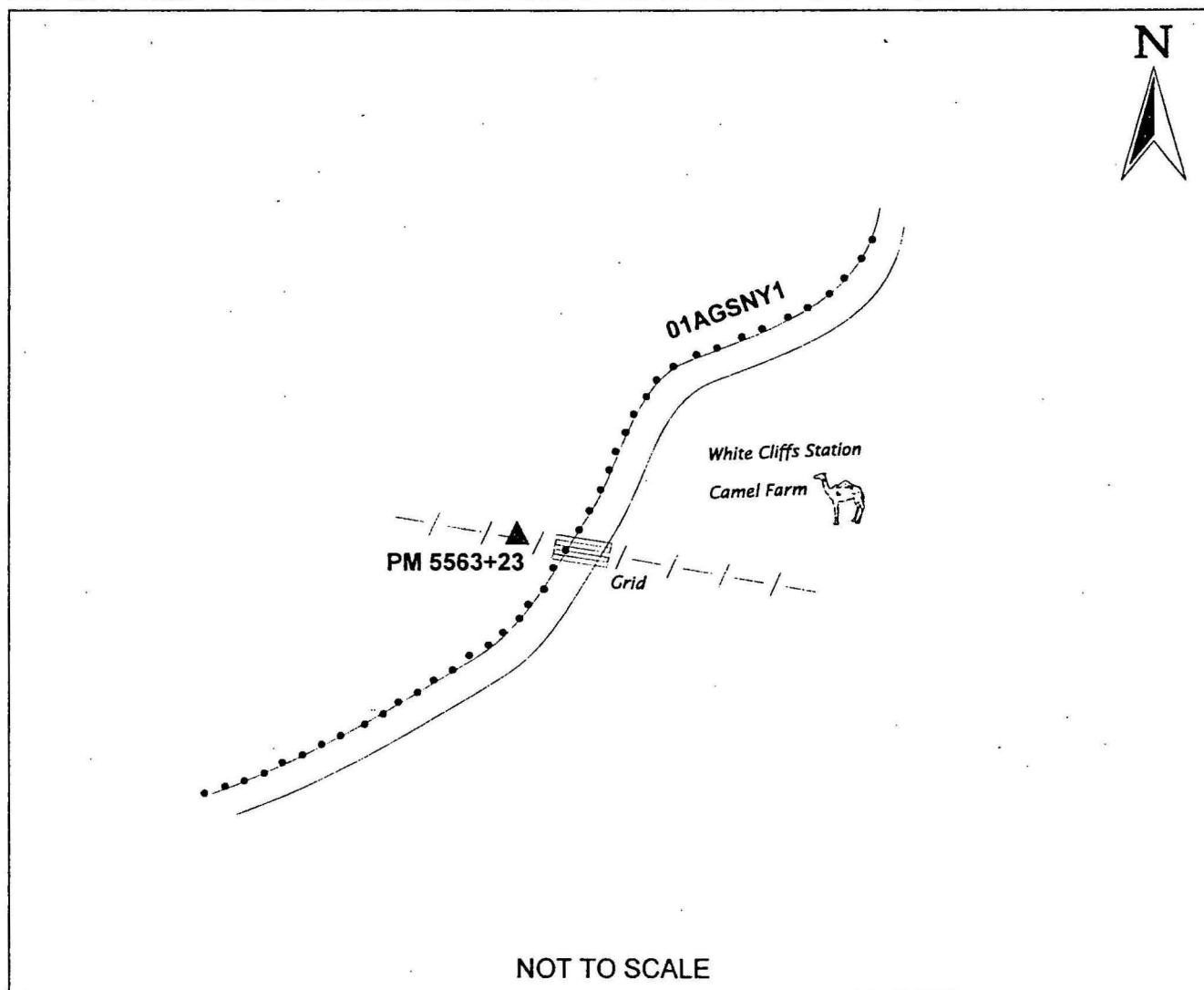
Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LAV 48 / BM XO103**

Origin: **LAV 48**

Mark Description: **Star Picket**





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 5948+32 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-3 Rason

Horizontal Control Information

Vertical Control Information

Easting: 507 351.53

RL: 511.77

Northing: 6 856 940.73

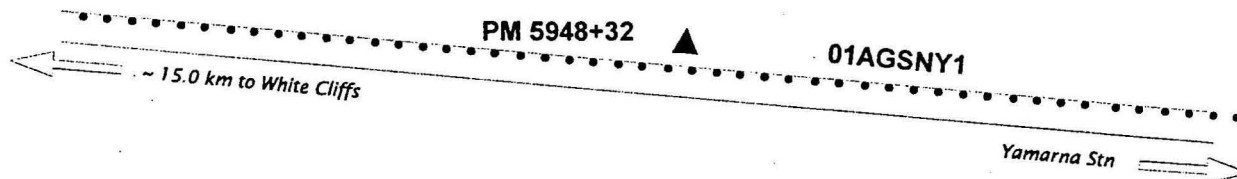
Datum: AHD

Datum: MGA94 Zone: 51

Origin: LAV 48 / BM XO103

Origin: LAV 48

Mark Description: Star Picket



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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 6395+9 (01AGSNY1)

AREA: Yilgarn 2001 Seismic MAP REFERENCE: SH 51-3 Rason

Horizontal Control Information

Easting: 524 565.44

Northing: 6 856 451.42

Datum: MGA94 Zone: 51

Origin: LAV 48

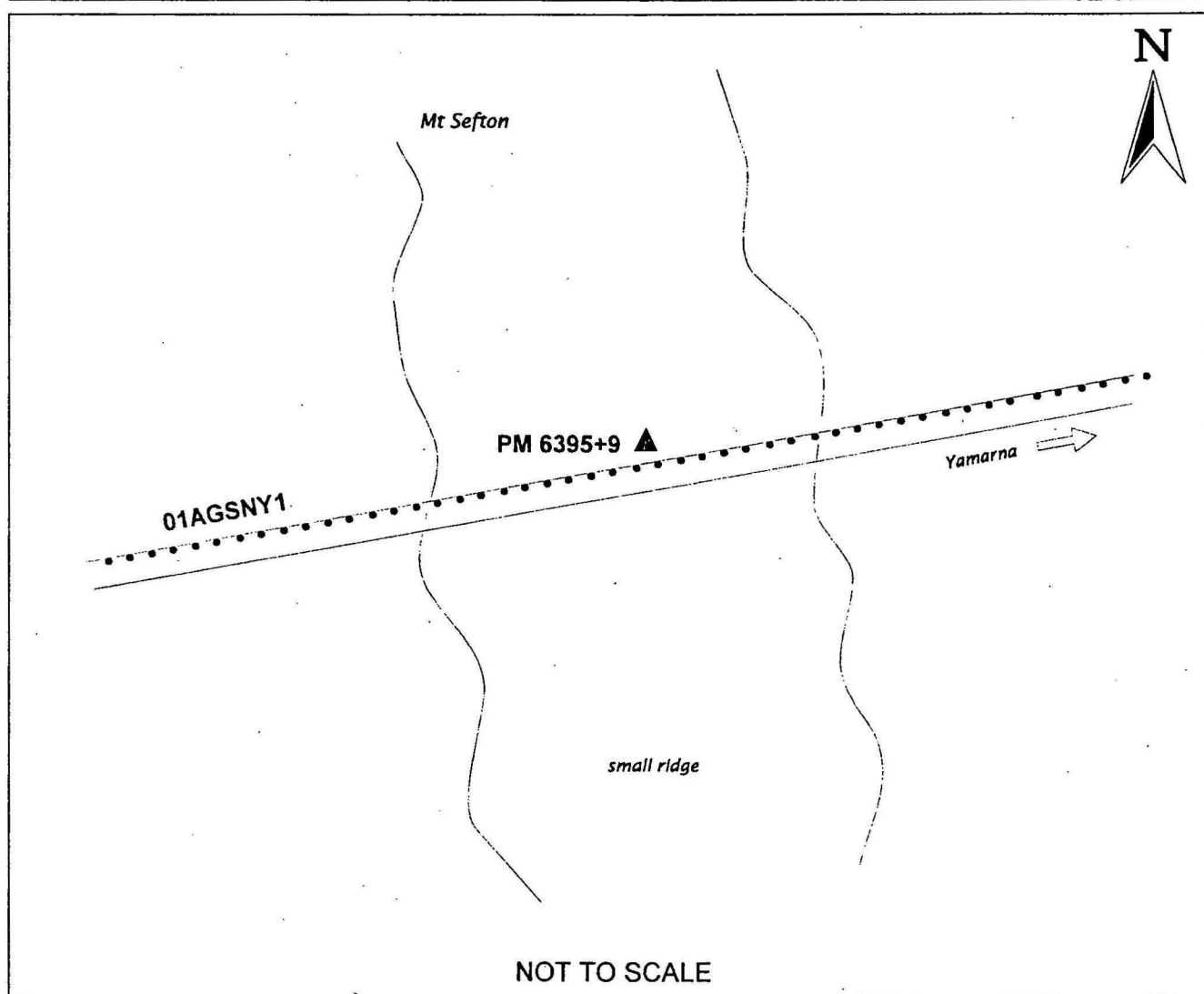
Vertical Control Information

RL: 501.78

Datum: AHD

Origin: LAV 48 / BM XO103

Mark Description: Star Picket





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 6978+7 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-3 Rason

Horizontal Control Information

Vertical Control Information

Easting: **543 348.79**

RL: **426.91**

Northing: **6 869 812.49**

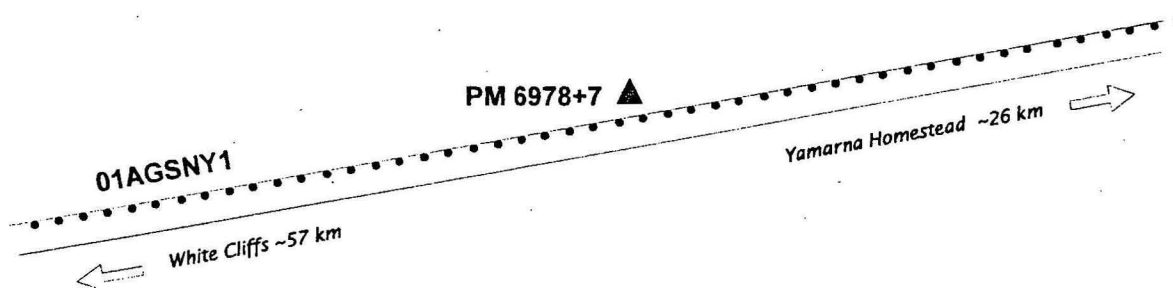
Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LAV 48 / BM XO103**

Origin: **LAV 48**

Mark Description: **Star Picket**



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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 7483+18 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-3 Rason

Horizontal Control Information

Vertical Control Information

Easting: 560 796.36

RL: 452.80

Northing: 6 879 679.72

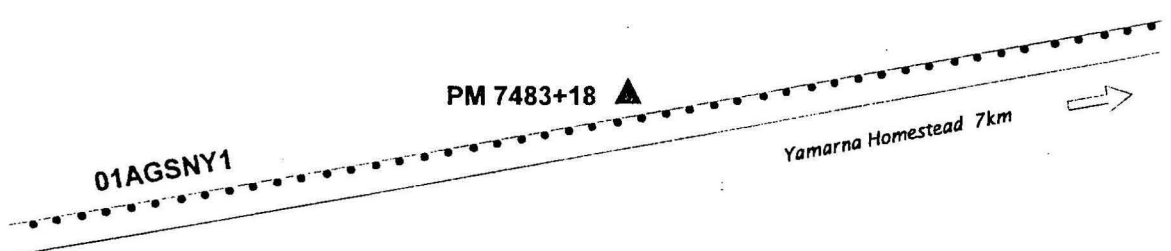
Datum: AHD

Datum: MGA94 Zone: 51

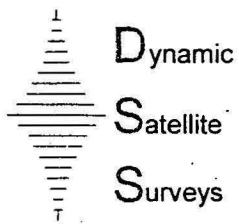
Origin: LAV 48 / BM XO103

Origin: LAV 48

Mark Description: Star Picket



NOT TO SCALE



STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 7903+20 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-3 Rason

Horizontal Control Information

Vertical Control Information

Easting: 575 188.24

RL: 472.25

Northing: 6 886 604.16

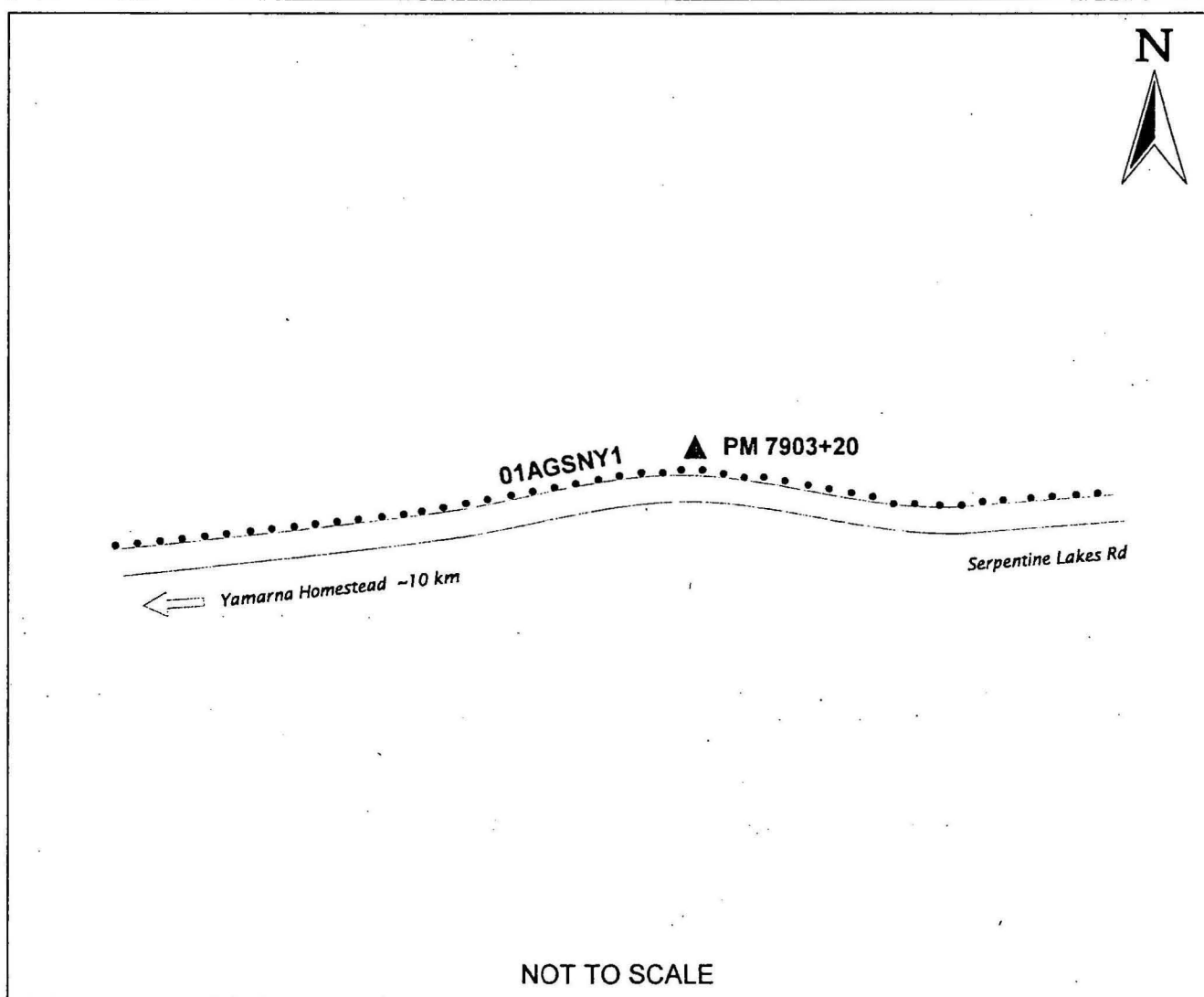
Datum: AHD

Datum: MGA94 Zone: 51

Origin: LAV 48 / BM XO103

Origin: LAV 48

Mark Description: Star Picket





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Satellite

Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 8299+10 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-3 Rason

Horizontal Control Information

Vertical Control Information

Easting: 590 159.07

RL: 398.45

Northing: 6 886 567.20

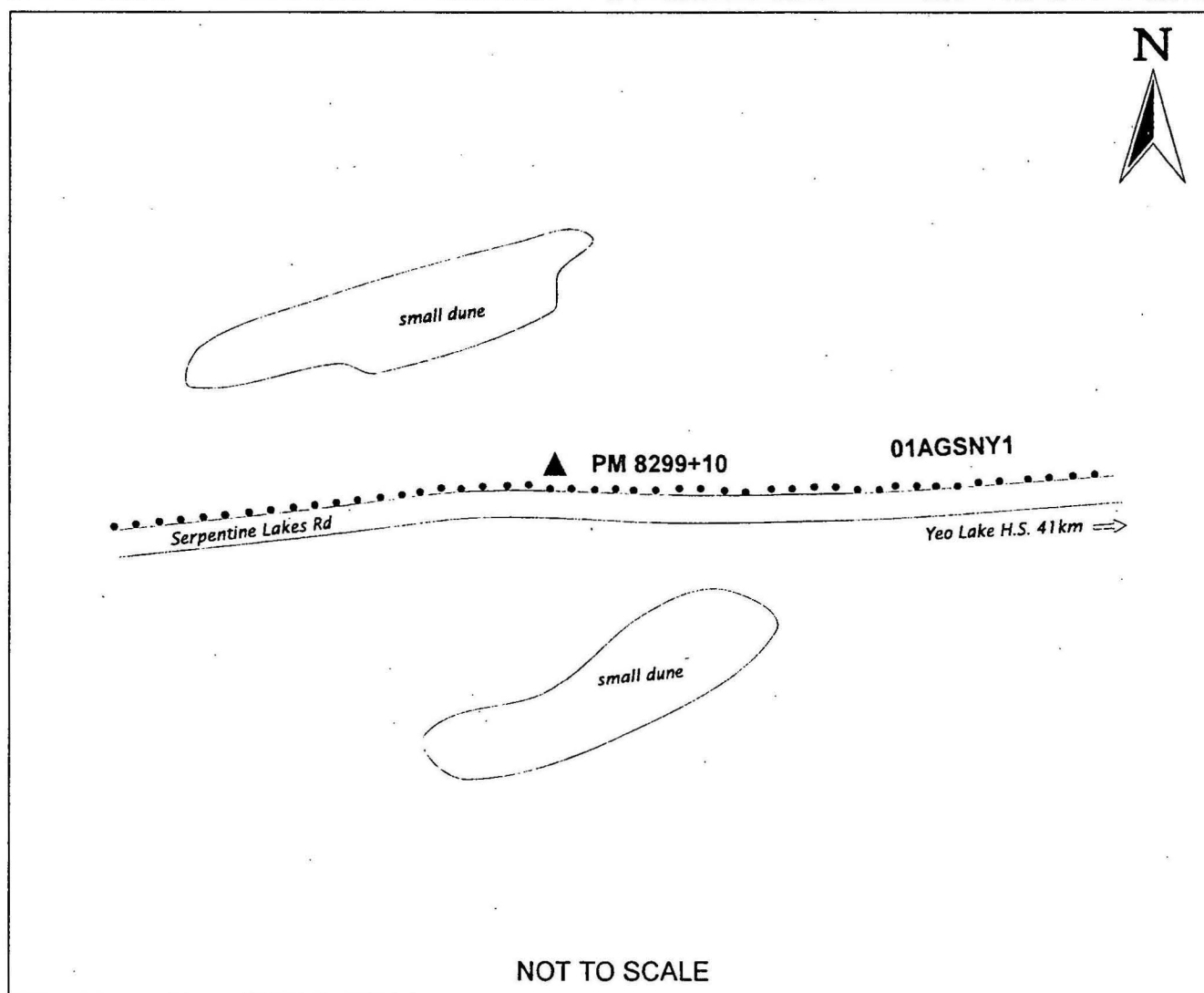
Datum: AHD

Datum: MGA94 Zone: 51

Origin: LAV 48 / BM XO103

Origin: LAV 48

Mark Description: Star Picket





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: Pt Sunday (AY 201)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-3 Rason

Horizontal Control Information

Vertical Control Information

Easting: **606 431.12**

RL: **435.90**

Northing: **6 888 545.15**

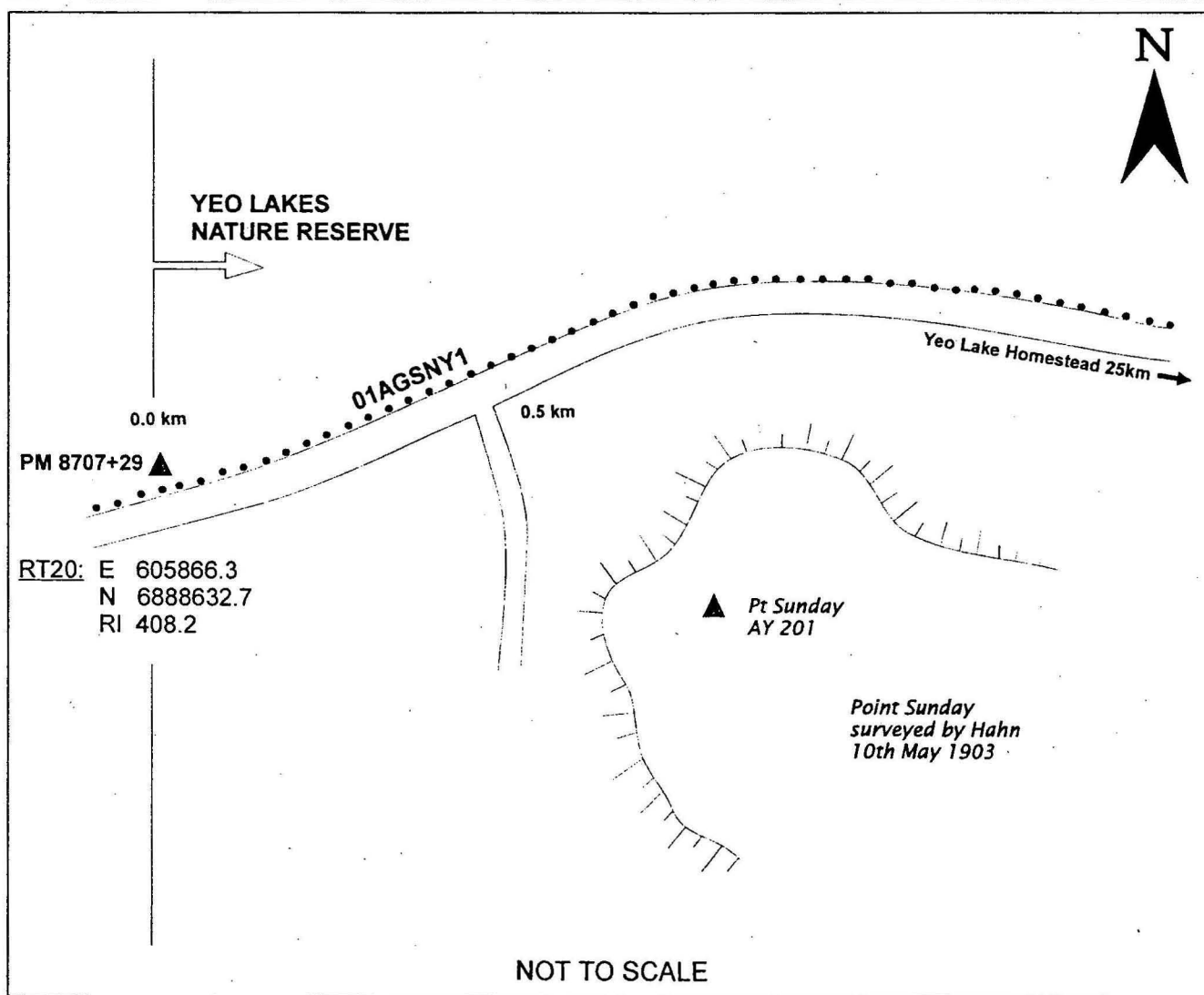
Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LAV 48 / BM XO103**

Origin: **LAV 48**

Mark Description: **Wooden Post in Cairn**





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 9192 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-3 Rason

Horizontal Control Information

Vertical Control Information

Easting: 624 296.75

RL: 372.18

Northing: 6 892 321.99

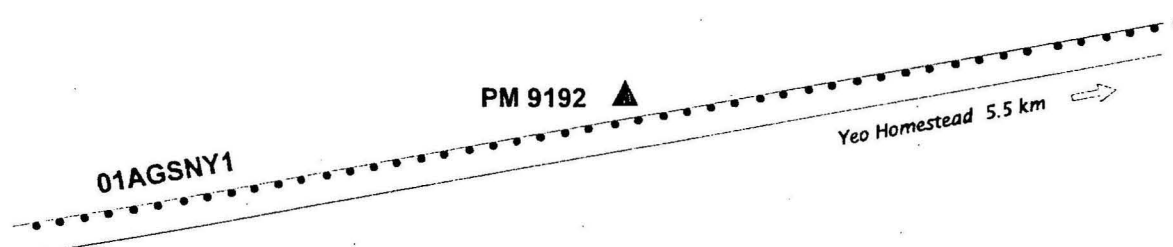
Datum: AHD

Datum: MGA94 Zone: 51

Origin: LAV 48 / BM XO103

Origin: LAV 48

Mark Description: Star Picket



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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 9662+31 (01AGSNY1)

AREA: Yilgarn 2001 Seismic MAP REFERENCE : SH 51-3 Rason

Horizontal Control Information

Easting: **641 862.72**

Northing: **6 888 255.97**

Datum: **MGA94** Zone: **51**

Origin: **LAV 48**

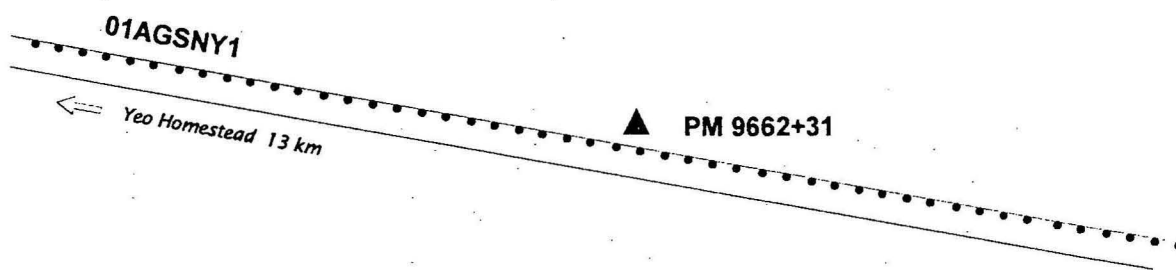
Vertical Control Information

RL: **372.02**

Datum: **AHD**

Origin: **LAV 48 / BM XO103**

Mark Description: **Star Picket**



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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 10026+5 (01AGSNY1)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-4 Neale

Horizontal Control Information

Vertical Control Information

Easting: **654 797.36**

RL: **366.14**

Northing: **6 882 577.84**

Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LAV 48 / BM XO103**

Origin: **LAV 48**

Mark Description: **Star Picket**



01AGSNY1

PM 10026+5

Serpentine Lakes Road

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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 10460+34 (01AGSNY1)

AREA: Yilgarn 2001 Seismic MAP REFERENCE : SH 51-4 Neale

Horizontal Control Information

Easting: 667 305.70

Northing: 6 872 016.33

Datum: MGA94 Zone: 51

Origin: LAV 48

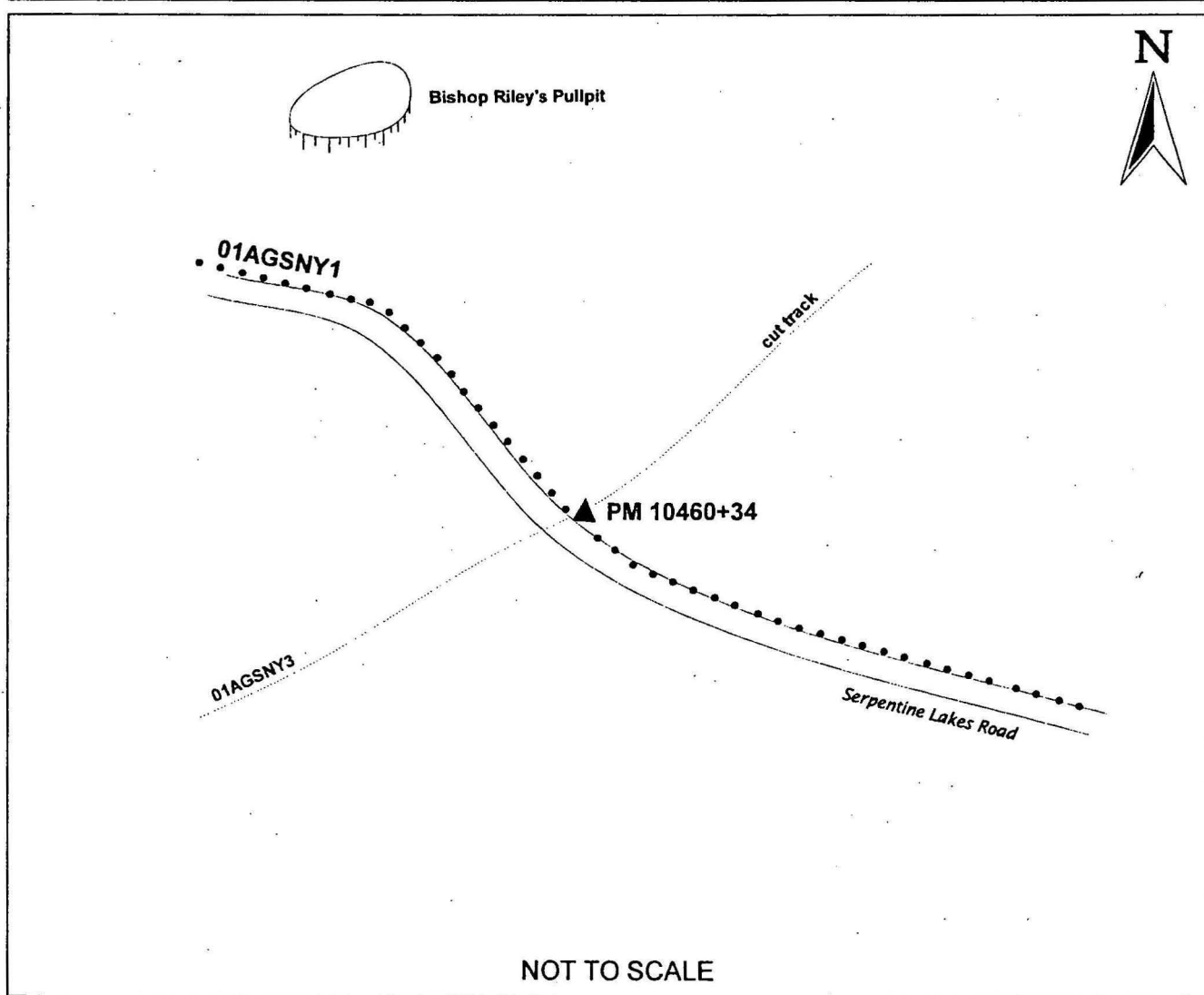
Vertical Control Information

RL: 365.51

Datum: AHD

Origin: LAV 48 / BM XO103

Mark Description: Star Picket



01-AGSNY2



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Satellite

Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1179+13 (01AGSNY2)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: 462 966.84

RL: 453.06

Northing: 6 809 117.38

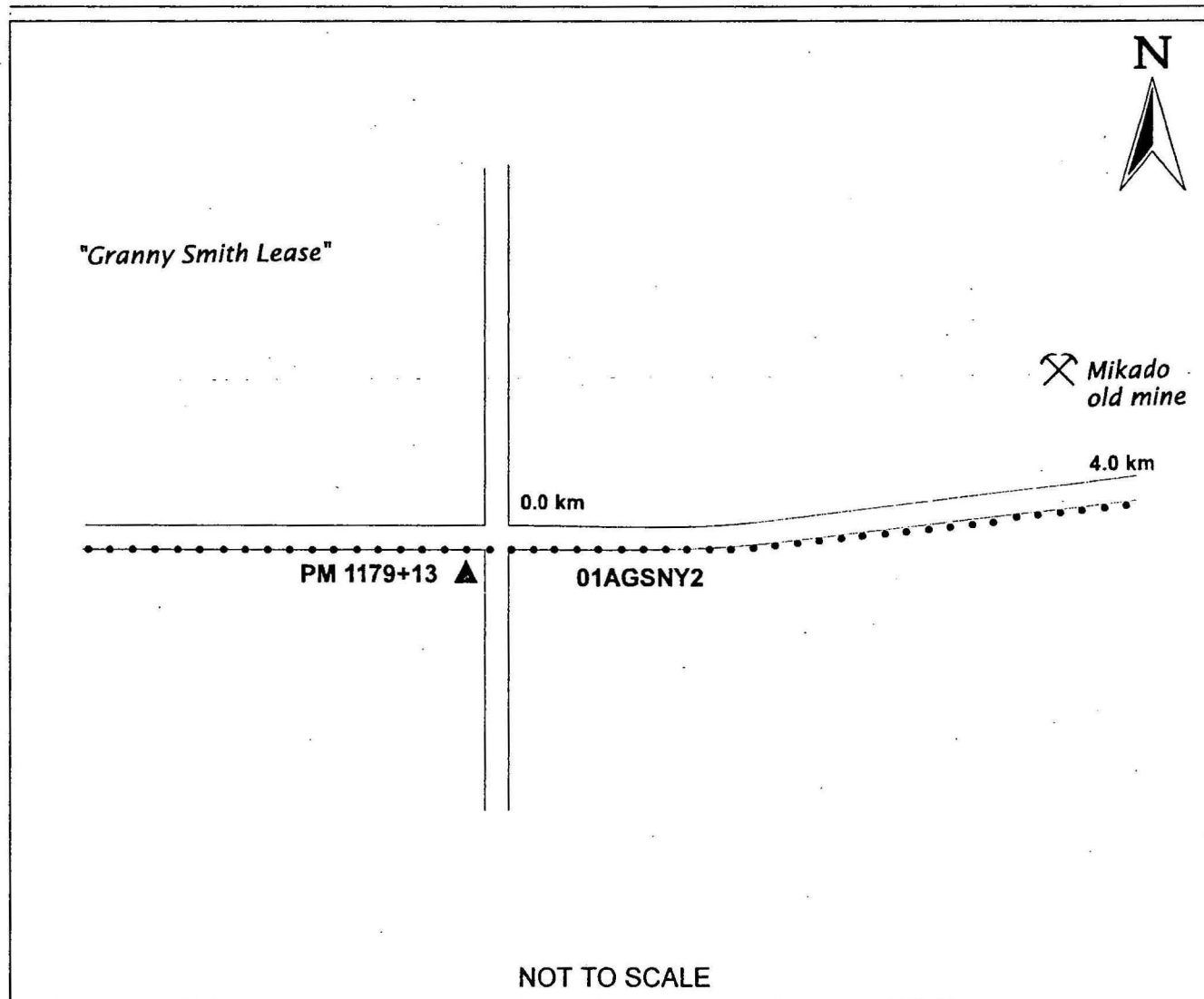
Datum: AHD

Datum: MGA94 Zone: 51

Origin: LEN 115 / LAV 48

Origin: LEN 115 / LAV 48

Mark Description: Star Picket





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1552+16 (01AGSNY2)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: **448 838.70**

RL: **415.73**

Northing: **6 809 421.68**

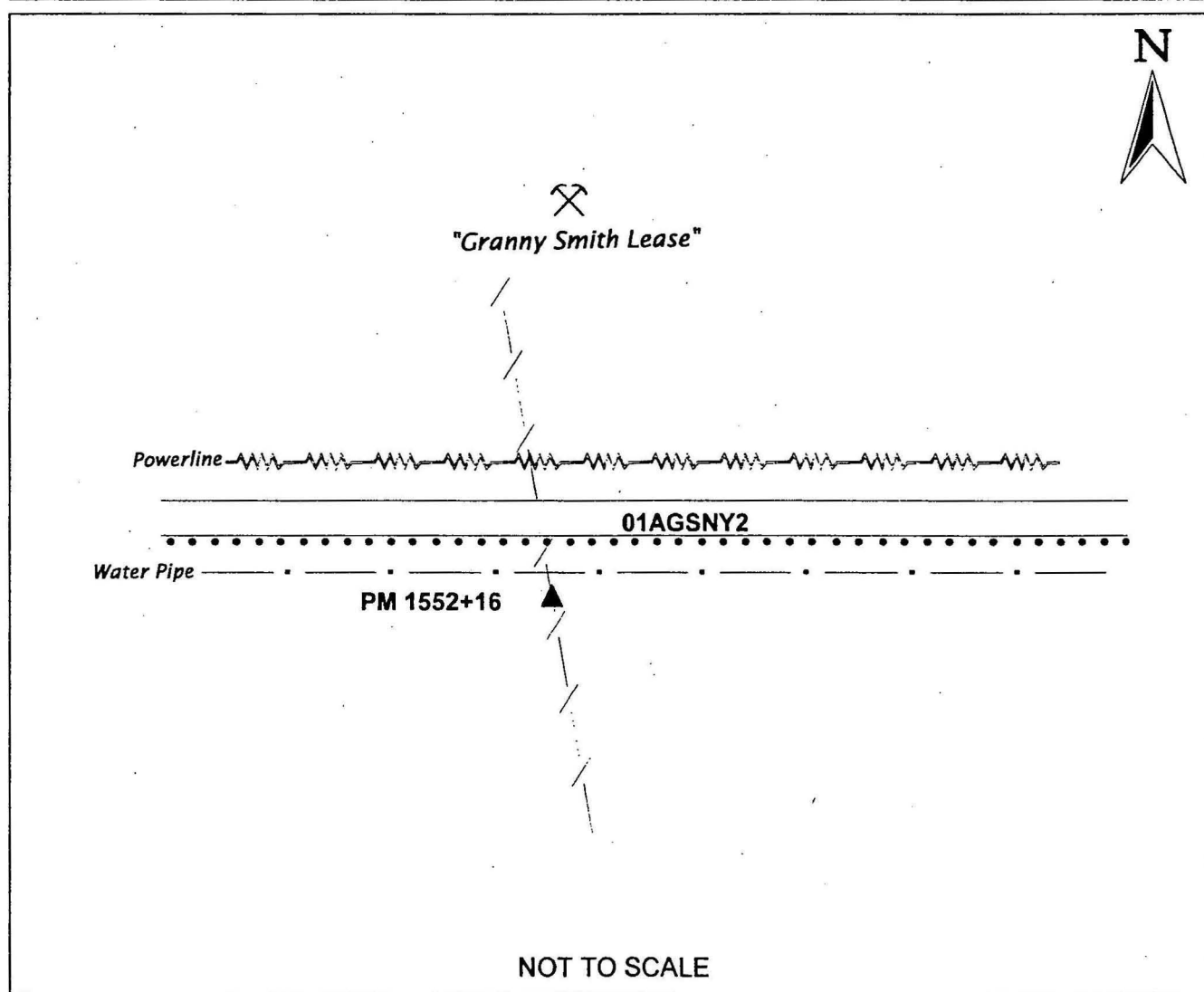
Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LEN 115 / LAV 48**

Origin: **LEN 115 / LAV 48**

Mark Description: **Star Picket**





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Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: stn 8501

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: **439 241.87**

RL: **441.51**

Northing: **6 811 428.76**

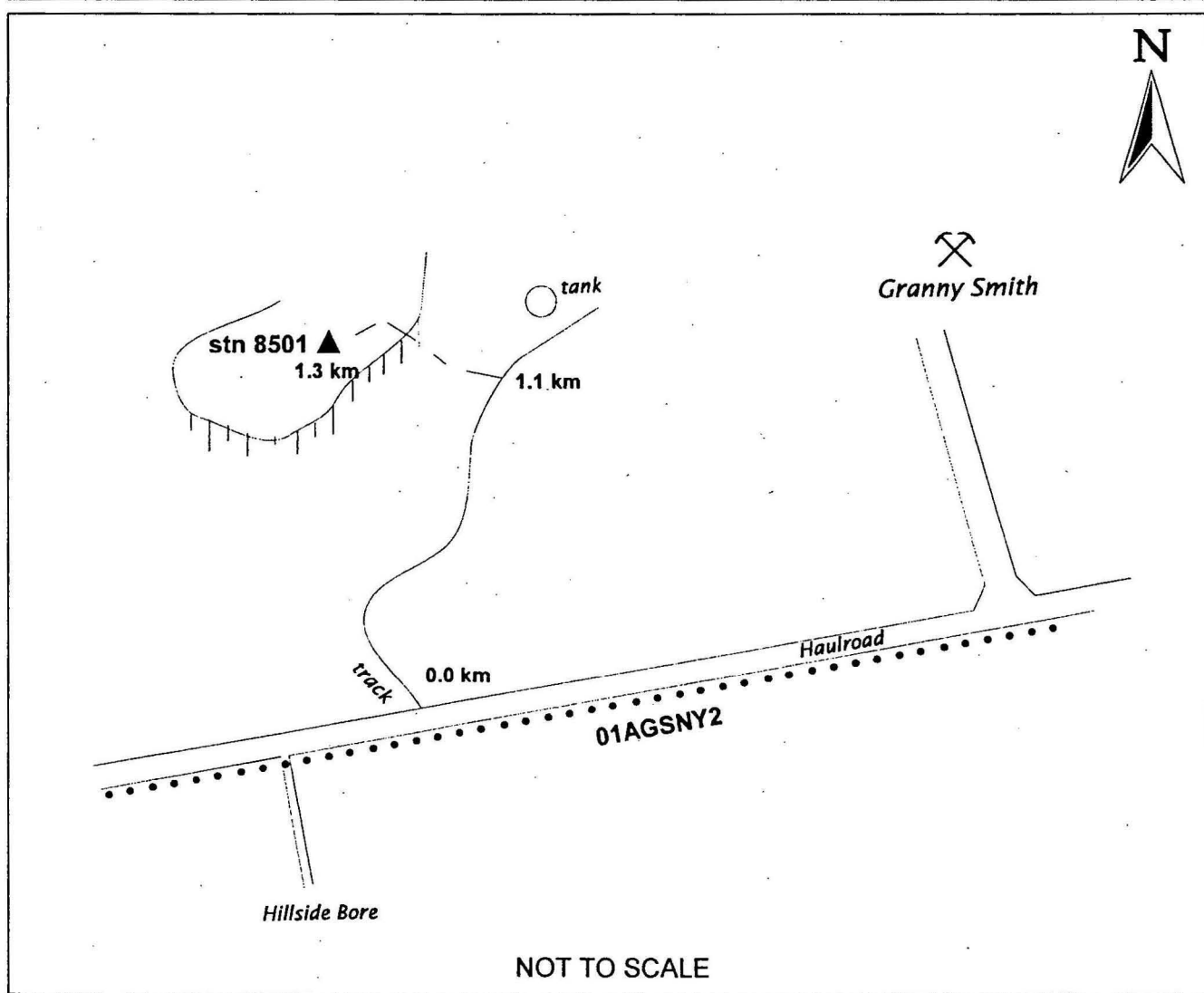
Datum: **AHD**

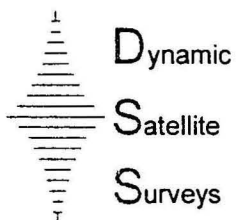
Datum: **MGA94** Zone: **51**

Origin: **LEN 115 / LAV 48**

Origin: **LEN 115 / LAV 48**

Mark Description: **Star Picket cut off at ground. (Granny Smith Survey Mark)**





STATION LOCATION DIAGRAM

DSS-FF-15
REV 6.0
Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 2434+30 (01AGSNY2)

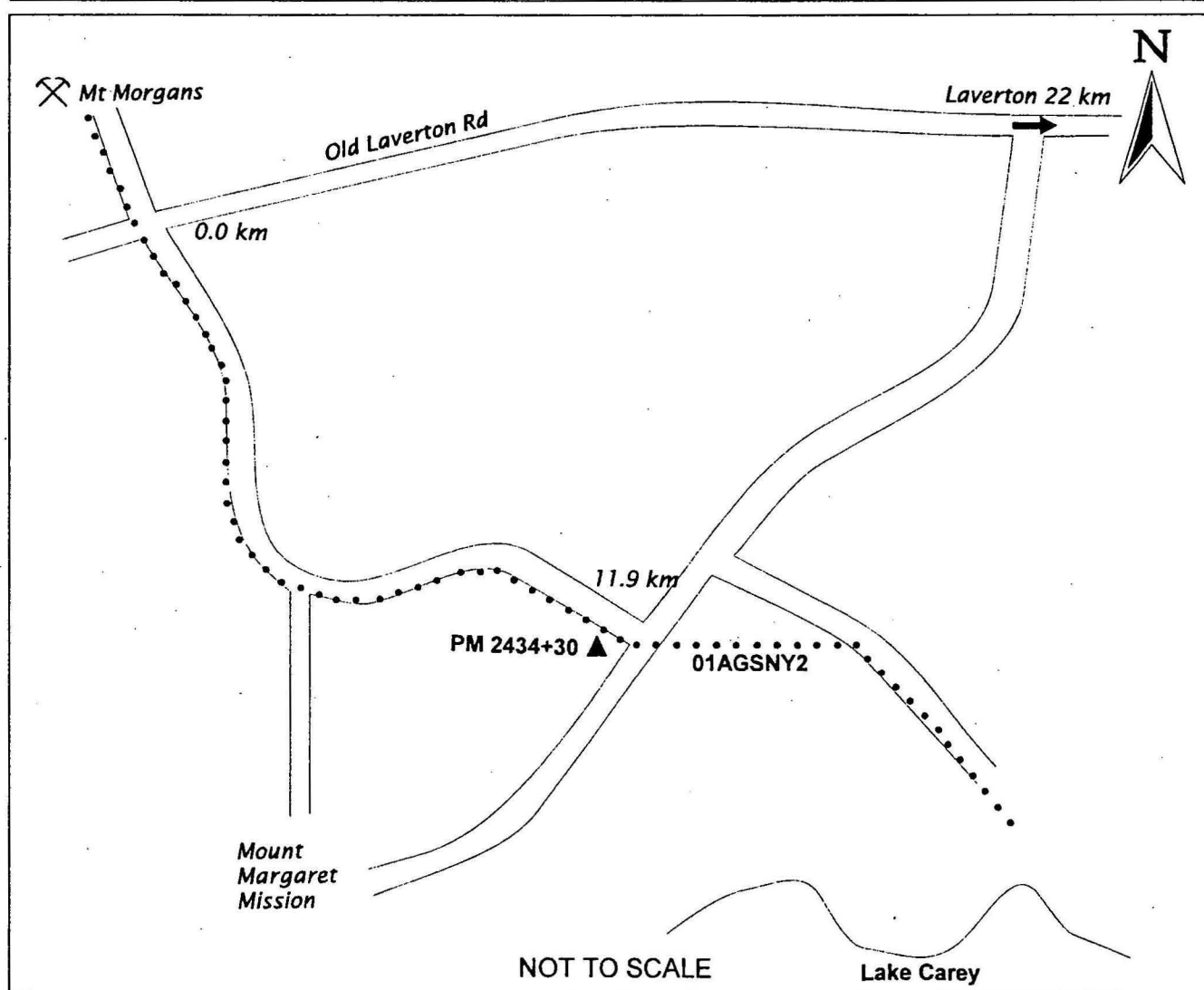
AREA: Yilgarn 2001 Seismic MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Vertical Control Information

Easting: 421690.56	RL: 402.62
Northing: 6 816 652.88	Datum: AHD
Datum: MGA94 Zone: 51	Origin: LEN 115 / LAV 48
Origin: LEN 115 / LAV 48	

Mark Description: **Star Picket**





Dynamic

Satellite

Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 2740+20 (01AGSNY2)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-2 Laverton

Horizontal Control Information

Easting: **410 557.88**

Northing: **6 816 685.22**

Datum: **MGA94** Zone: **51**

Origin: **LEN 115 / LAV 48**

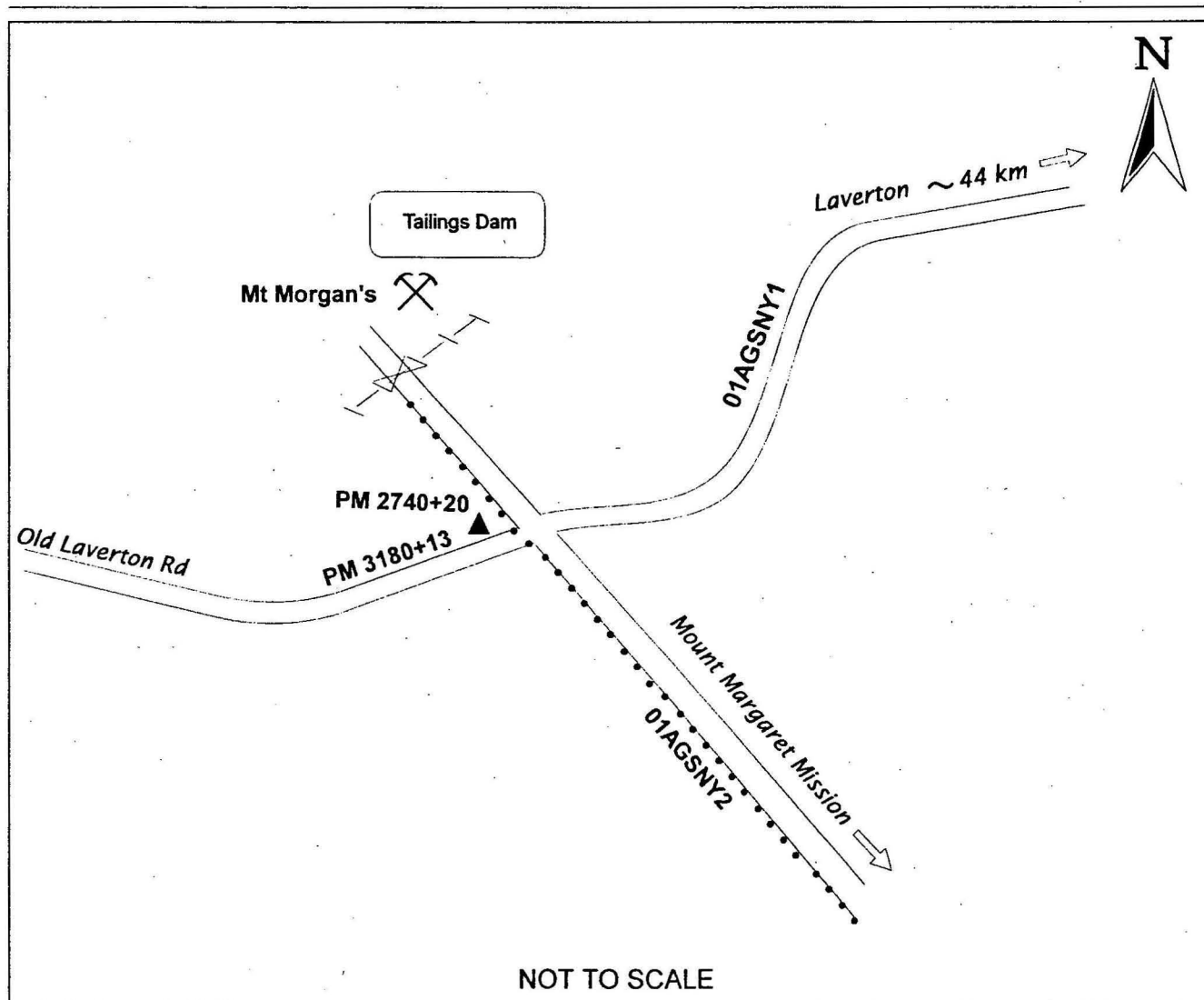
Vertical Control Information

RL: **428.23**

Datum: **AHD**

Origin: **LEN 115 / LAV 48**

Mark Description: **Star Picket**



01-AGSNY3



Dynamic

Satellite

Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1160 (01AGSNY3)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-4 Neale

Horizontal Control Information

Easting: 667 305.70

Northing: 6 872 016.33

Datum: MGA94 Zone: 51

Origin: LAV 48

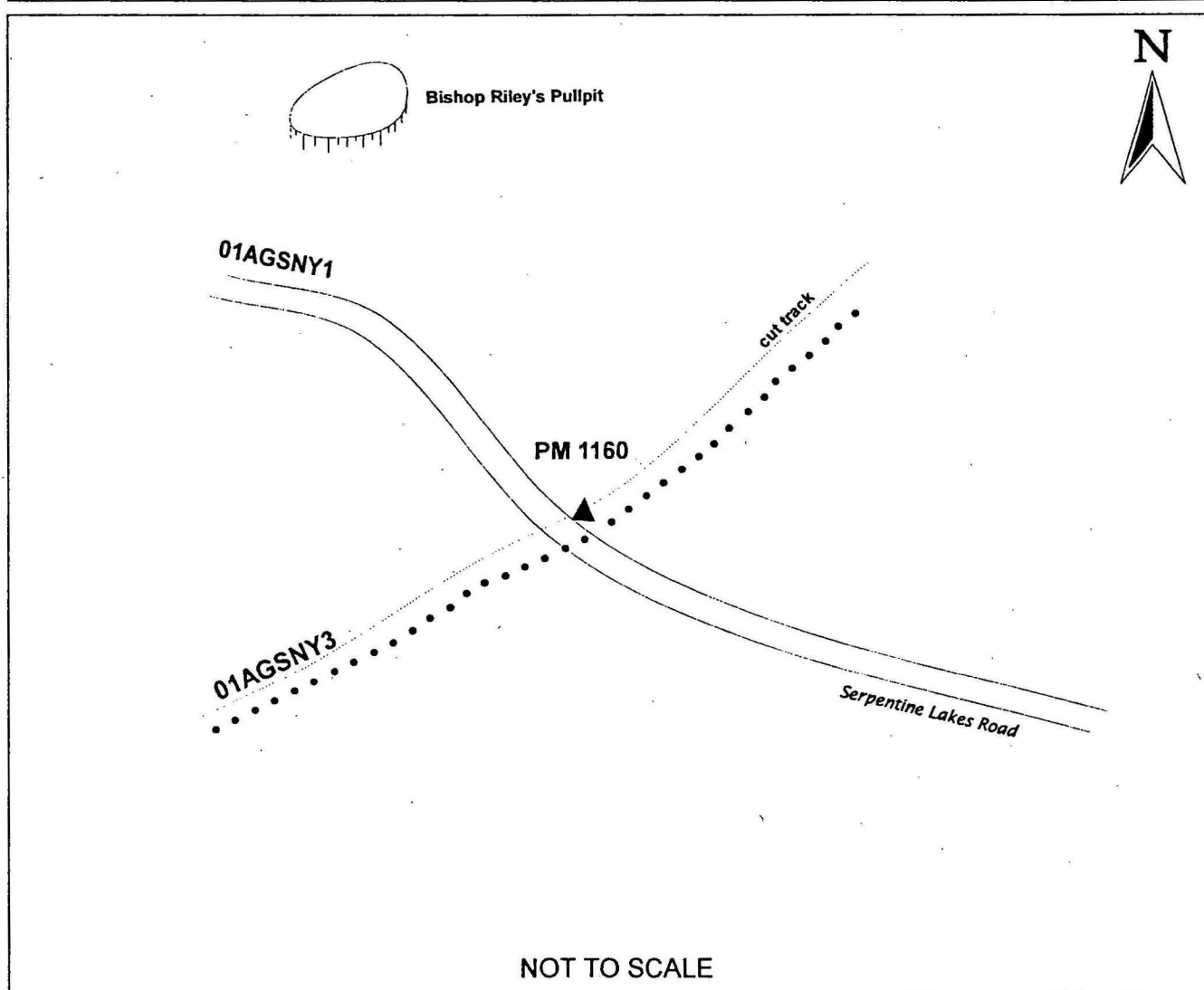
Vertical Control Information

RL: 365.51

Datum: AHD

Origin: LAV 48 / BM XO103

Mark Description: Star Picket





Dynamic

Satellite

Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1857+3 (01AGSNY3)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: SH 51-4 Neale

Horizontal Control Information

Easting: 683 210.87

Northing: 6 884 628.23

Datum: MGA94 Zone: 51

Origin: LAV 48

Vertical Control Information

RL: 344.16

Datum: AHD

Origin: LAV 48 / BM XO103

Mark Description: Star Picket



01AGSNY3

PM 1857+3

cut track

NOT TO SCALE



Dynamic

Satellite

Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 2480+22 (01AGSNY3)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : SH 51-4 Neale

Horizontal Control Information

Vertical Control Information

Easting: **698 115.13**

RL: **394.26**

Northing: **6 895 497.70**

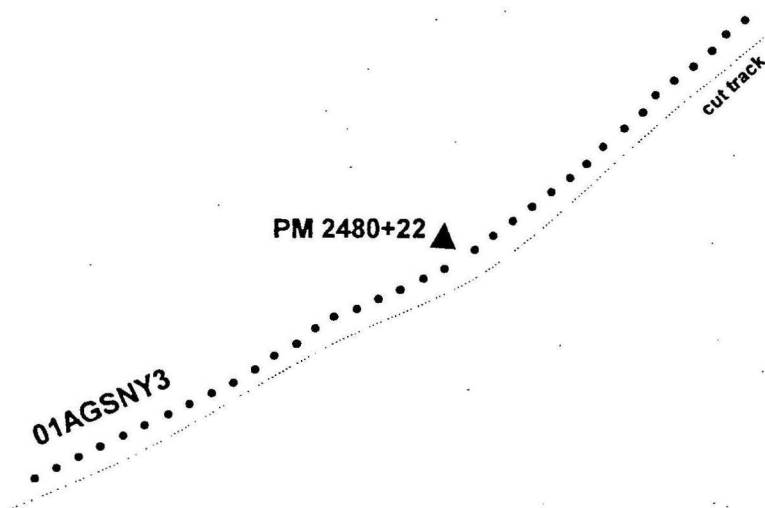
Datum: **AHD**

Datum: **MGA94** Zone: **51**

Origin: **LAV 48 / BM XO103**

Origin: **LAV 48**

Mark Description: **Star Picket**



NOT TO SCALE

01-AGSNY4



Dynamic

Satellite

Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1121+14 (01AGSNY4)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE : _____

Horizontal Control Information

Vertical Control Information

Easting: **446 420.12**

RL: **404.03**

Northing: **6 781 210.11**

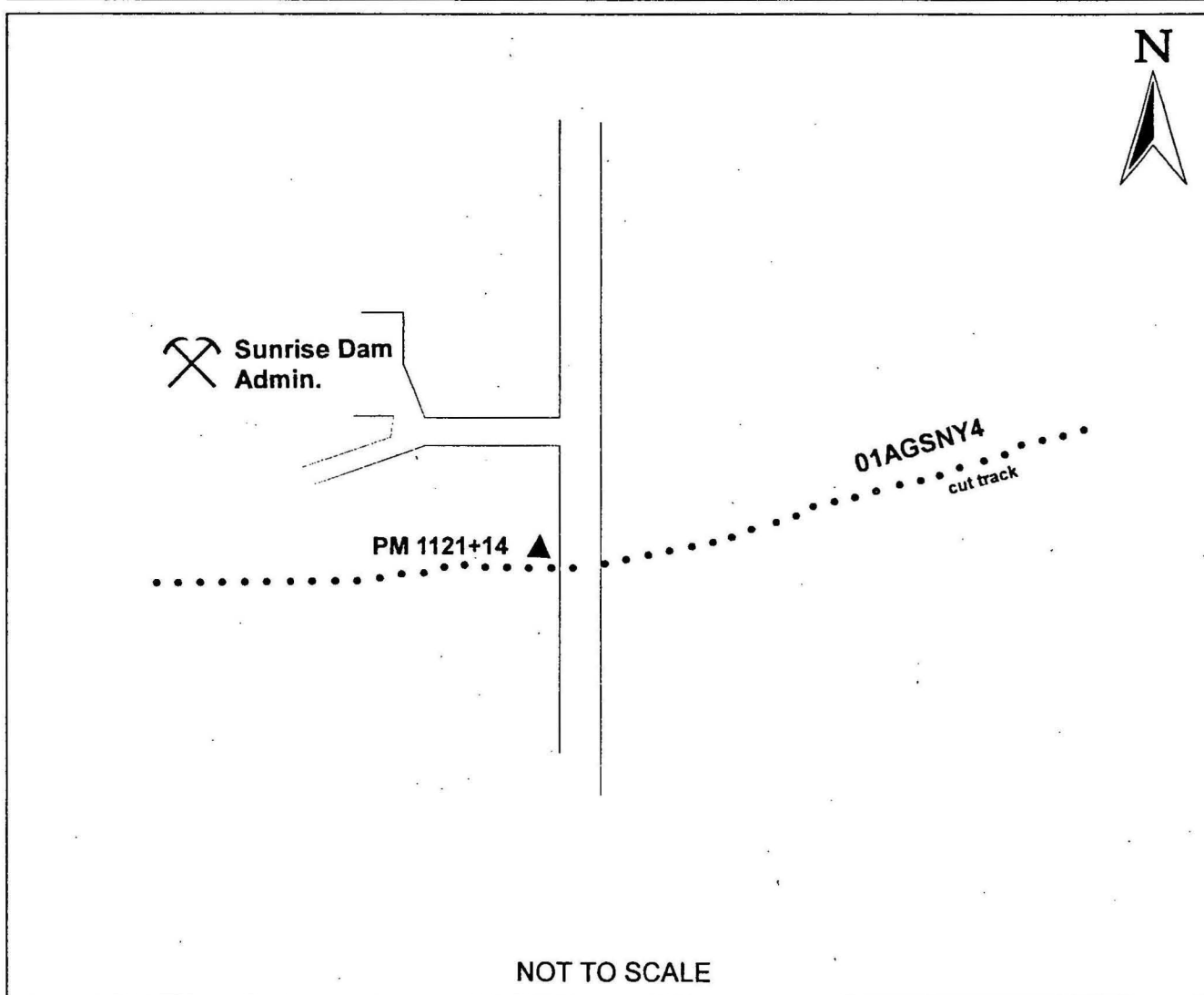
Datum: **AHD**

Datum: **AMG84** Zone: **51**

Origin: **PLT 3**

Origin: **PLT 3**

Mark Description: **Star Picket**





Dynamic

Satellite

Surveys

STATION LOCATION DIAGRAM

DSS-FF-15

REV 6.0

Mar 1999

PROJECT / JOB # 01-66 CLIENT AGSO / Trace Energy

STATION NAME: PM 1346+11 (01AGSNY4)

AREA: Yilgarn 2001 Seismic

MAP REFERENCE: _____

Horizontal Control Information

Vertical Control Information

Easting: **454 683.64**

RL: **454.83**

Northing: **6 784 297.91**

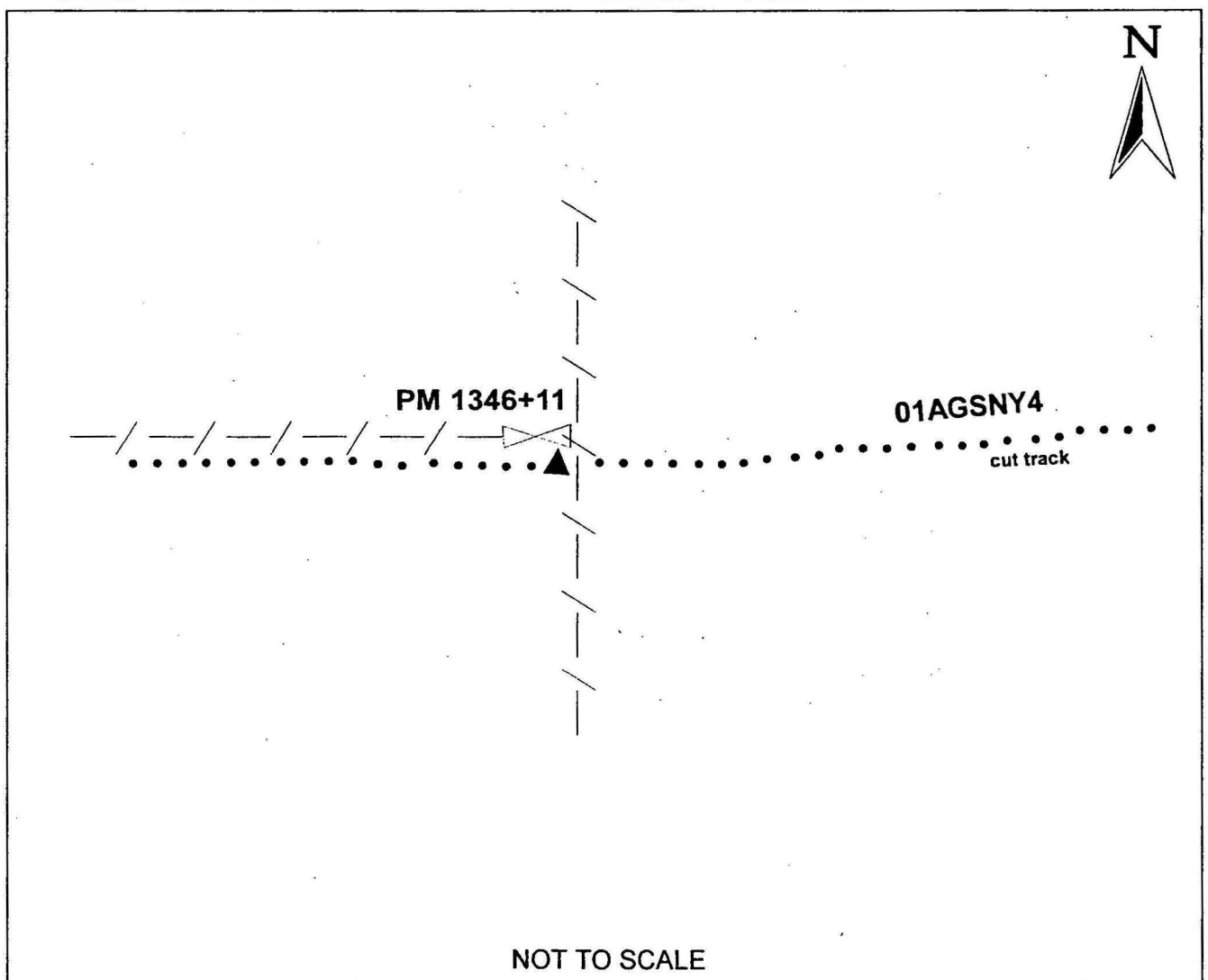
Datum: **AHD**

Datum: **AMG84** Zone: **51**

Origin: **PLT 3**

Origin: **PLT 3**

Mark Description: **Star Picket**



Chaining Maps

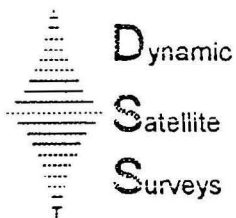
01-AGSNY1

TRACE DIAGRAM

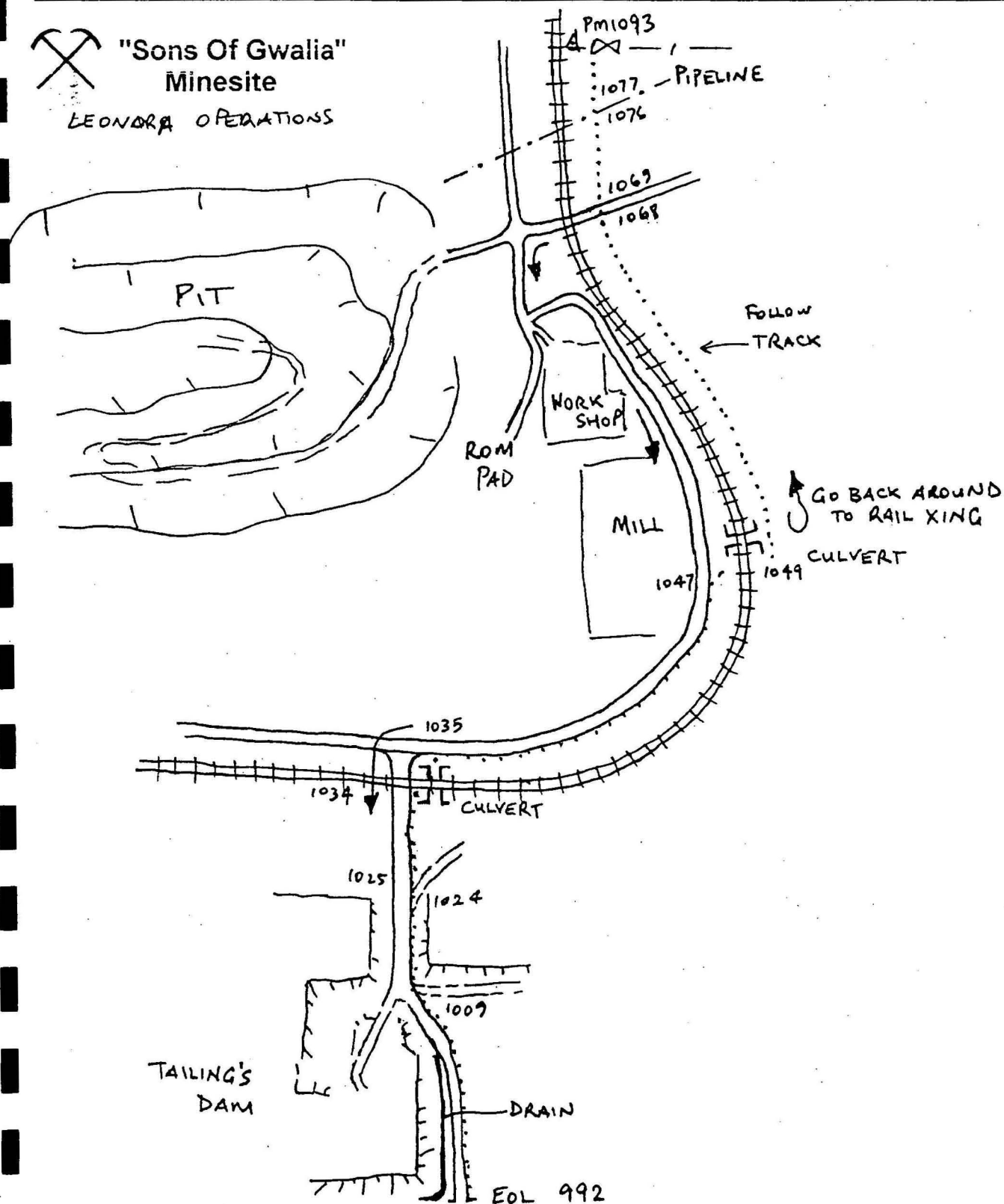
DSS-FF-07

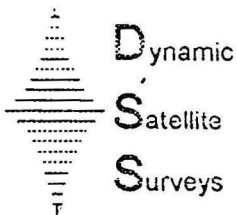
REV 7.0

June 2001

LINE: 01AGS NY1PROJECT/JOB # 01-66 CLIENT AGSOPAGE 1 OF 10 AREA: YILGARN STN INTERVAL: 40 m SHOT INTERVAL: mFROM STN 992 TO STN 1093 SHOOTING DIRECTION: W-E BEARING: ~90 °**"Sons Of Gwalia"**
Minesite

LEONORA OPERATIONS





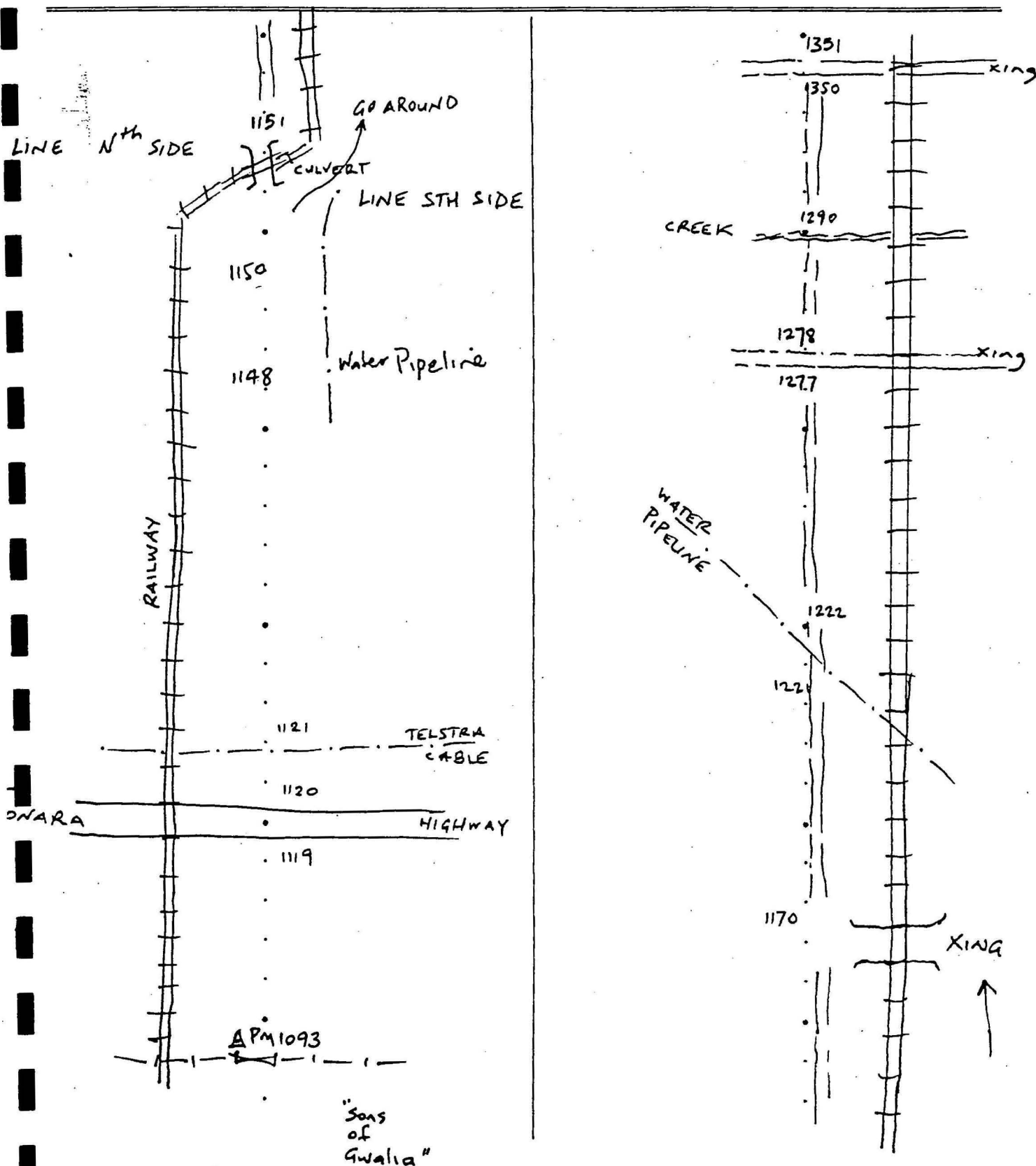
TRACE DIAGRAM

DSS-FF-03
REV 5.0
October 1998

PROJECT/JOB # 01-66 CLIENT AGSO

PAGE 2 OF 10 LINE: 01AGSNY1 AREA: YILGARN STN INTERVAL: 40 m

FROM STN 1093 TO STN 1351 SHOOTING DIRECTION: W-E BEARING: ~90°





Dynamic

Satellite

Surveys

TRACE DIAGRAM

DSS-FF-03

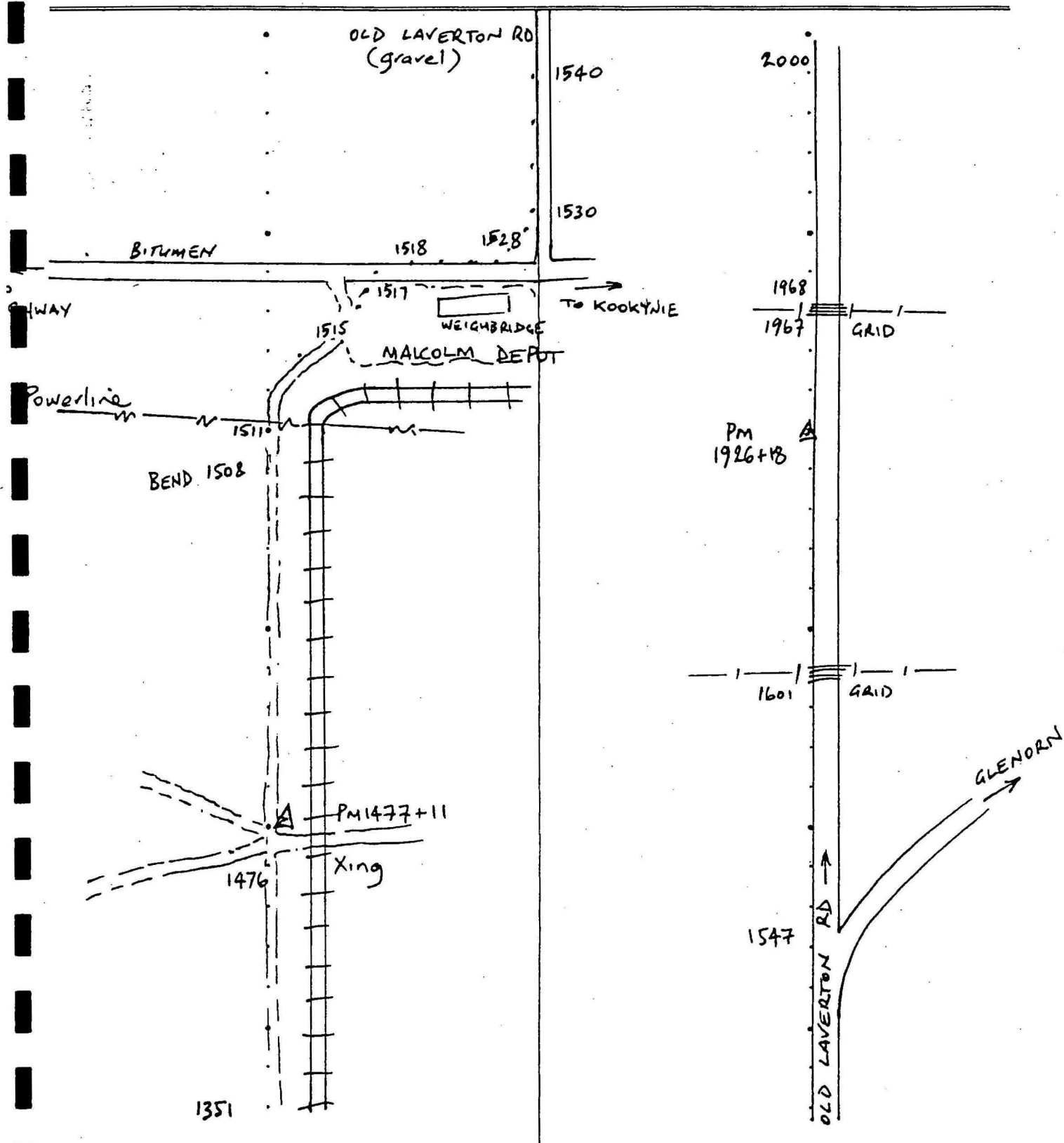
REV 5.0

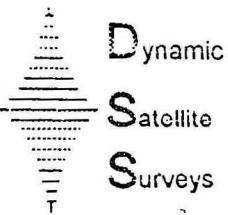
October 1998

PROJECT/JOB # 01-66 CLIENT AGSO - TRACE

PAGE 3 OF 10 LINE: 01 AGS NY 1 AREA: YILGARN STN INTERVAL: 40 m

FROM STN 1351 TO STN 2000 SHOOTING DIRECTION: W-E BEARING: ~90 °





TRACE DIAGRAM

DSS-FF-03

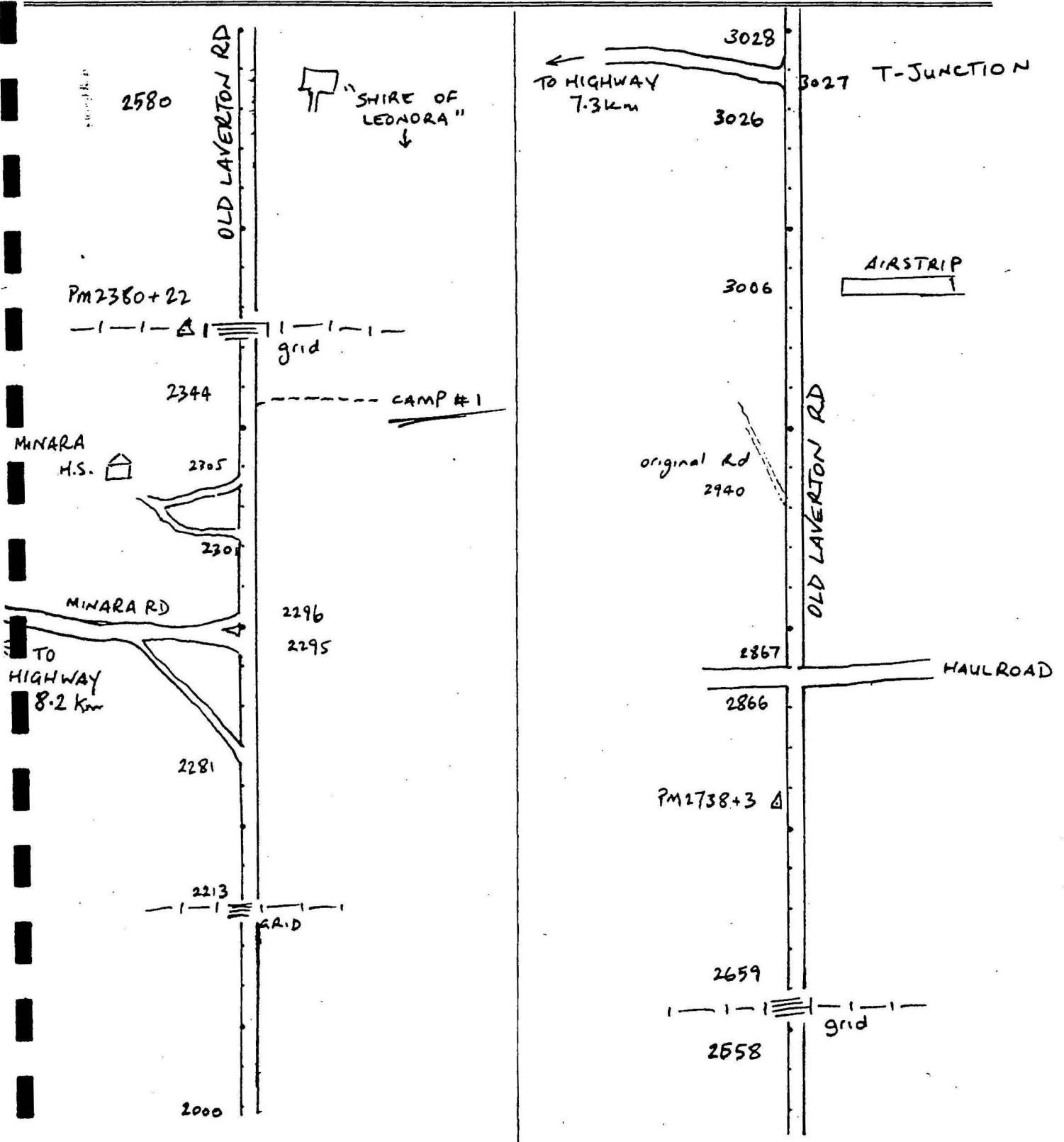
REV 5.0

October 1998

PROJECT/JOB # 01-66 CLIENT AGSO

PAGE 4 OF 10 LINE: DIAGS NY 1 AREA: YILGARN STN INTERVAL: 40 m

FROM STN 2000 TO STN 3028 SHOOTING DIRECTION: W-E BEARING: ~90°

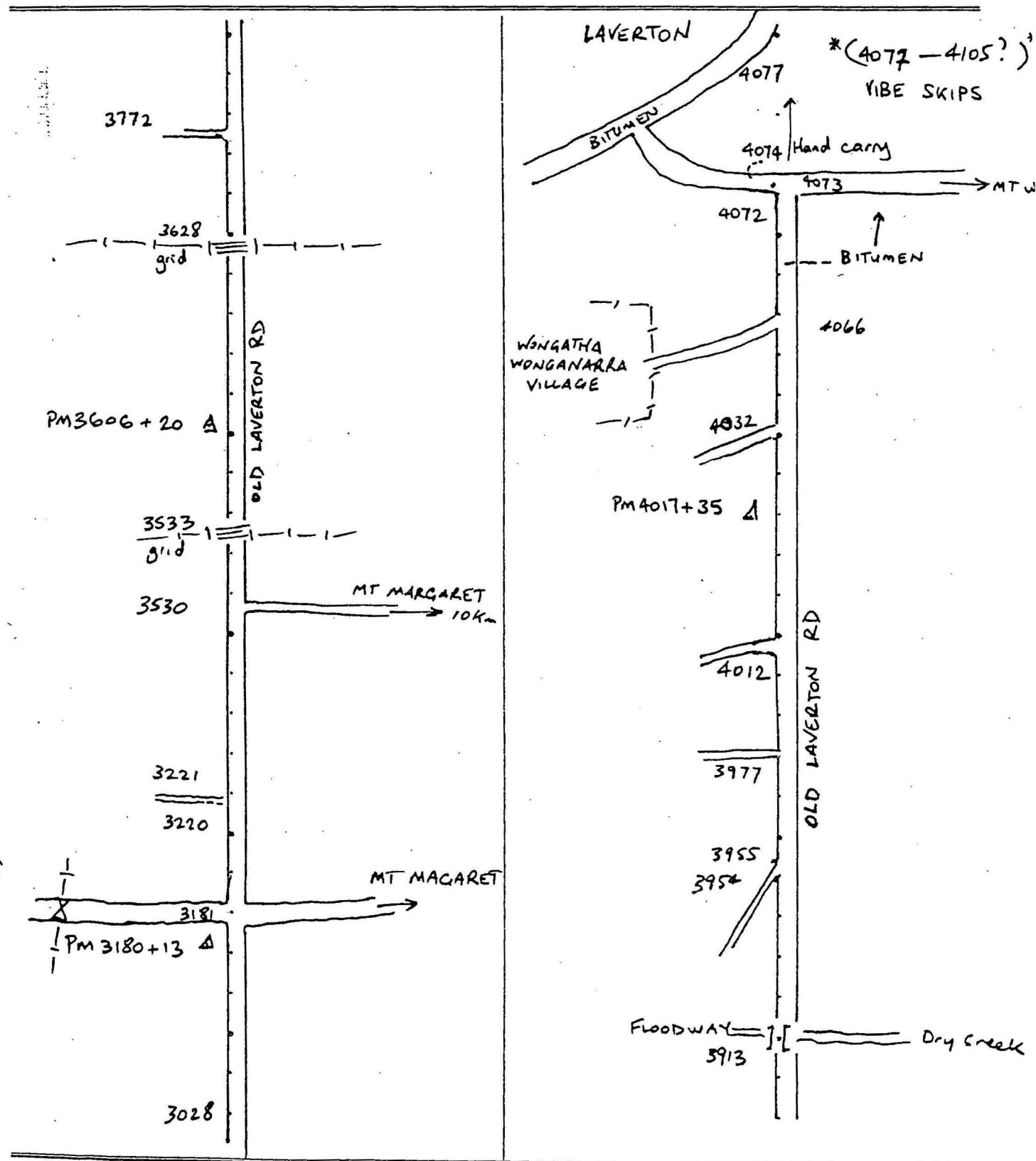


TRACE DIAGRAM

DSS-FF-07

REV 7.0

June 2001

D
ynamicS
atelliteS
urveysLINE: 01AGSNY1PROJECT/JOB # 01-66CLIENT AGSOPAGE 5 OF 10 AREA: YILGARN STN INTERVAL: _____ m SHOT INTERVAL: 40 mFROM STN 3028 TO STN 4077 SHOOTING DIRECTION: W-E BEARING: ~90°



Dynamic

Satellite

Surveys

TRACE DIAGRAM

LINE: 01AGSNY1

DSS-FF-07

REV 7.0

June 2001

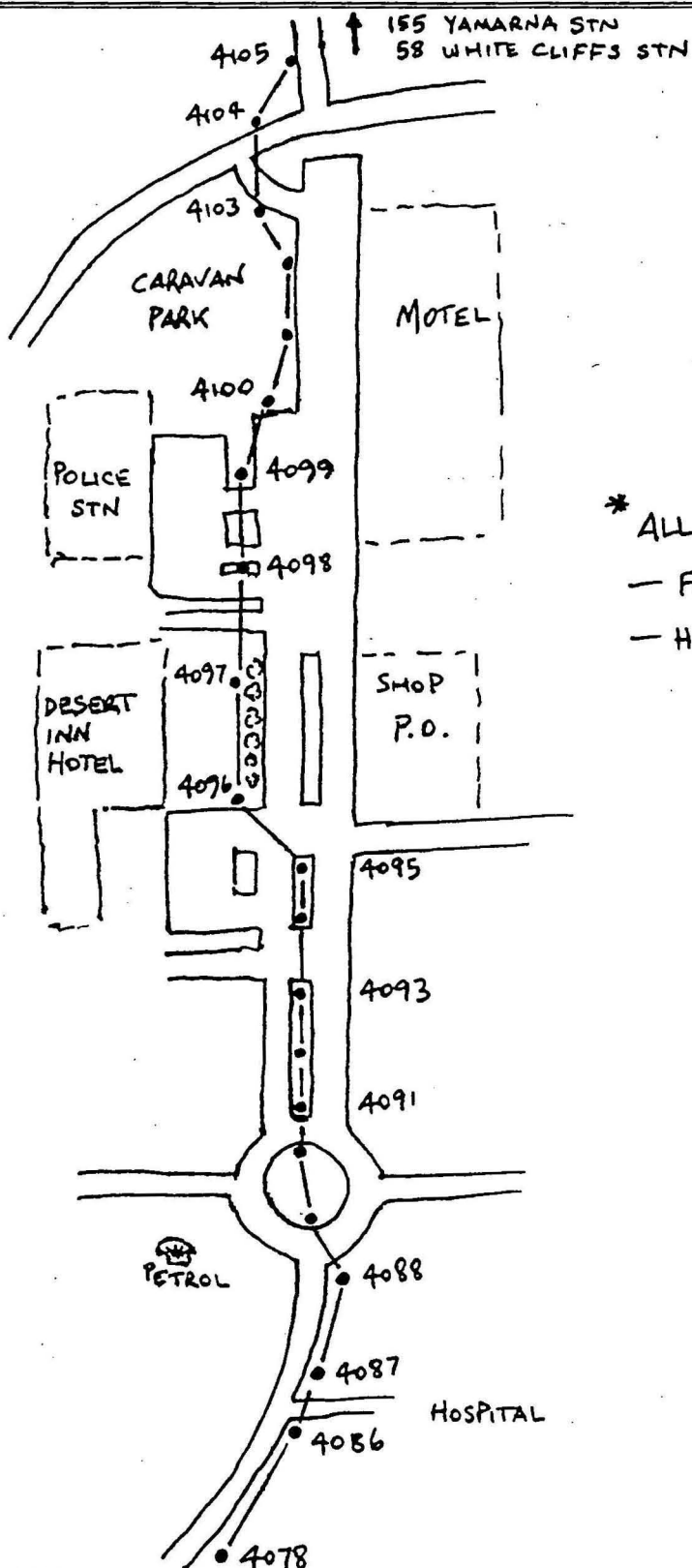
PROJECT/JOB # 01-66

CLIENT AGSO

PAGE 6 OF 10 AREA: YILGARN STN INTERVAL: 40 m SHOT INTERVAL: m

FROM STN 4078 TO STN 4105 SHOOTING DIRECTION: W-E BEARING: ~90 °

LAVERTON TOWNSITE



* ALL STATIONS
— FALL ON DIRT
— HAVE YELLOW SPRAY
PAINT,
MARKING SPOT

TRACE DIAGRAM

DSS-FF-07

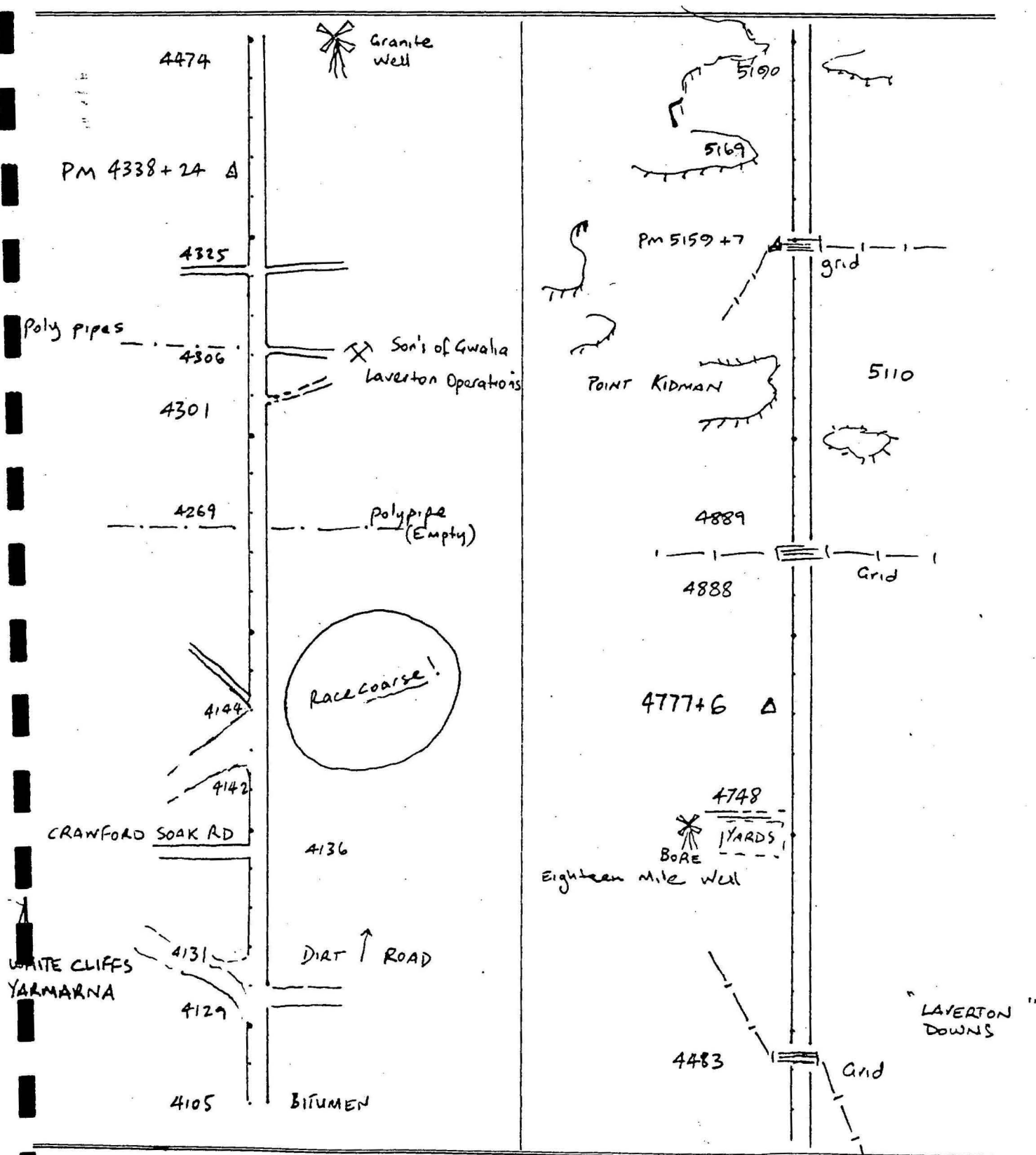
REV 7.0

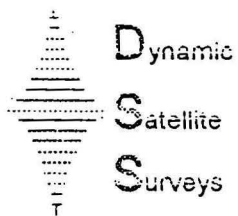
June 2001

Dynamic

Satellite

Surveys

LINE: 0/AGS NY 1PROJECT/JOB # 01-66CLIENT AGSOPAGE 7 OF 10 AREA: YILGARN STN INTERVAL: 40 m SHOT INTERVAL: mFROM STN 4105 TO STN 5190 SHOOTING DIRECTION: W-E BEARING: ~90 °

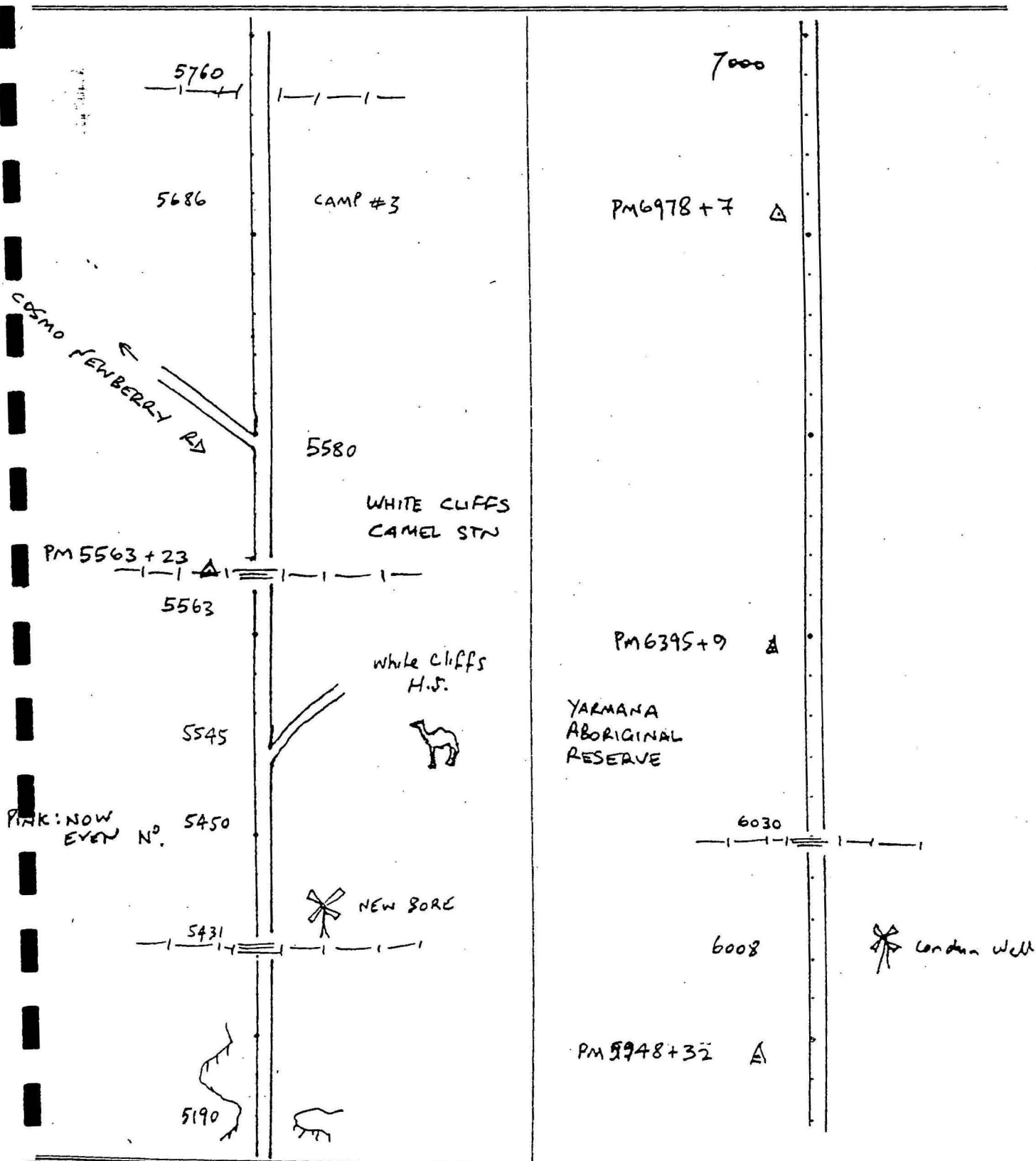


TRACE DIAGRAM

DSS-FF-07

REV 7.0

June 2001

LINE: DIAGS NY1PROJECT/JOB # 01-66CLIENT AGSOPAGE 8 OF 10 AREA: YILGARN STN INTERVAL: 40 m SHOT INTERVAL: mFROM STN 5190 TO STN 7000 SHOOTING DIRECTION: W-E BEARING: ~90°

TRACE DIAGRAM

DSS-FF-07

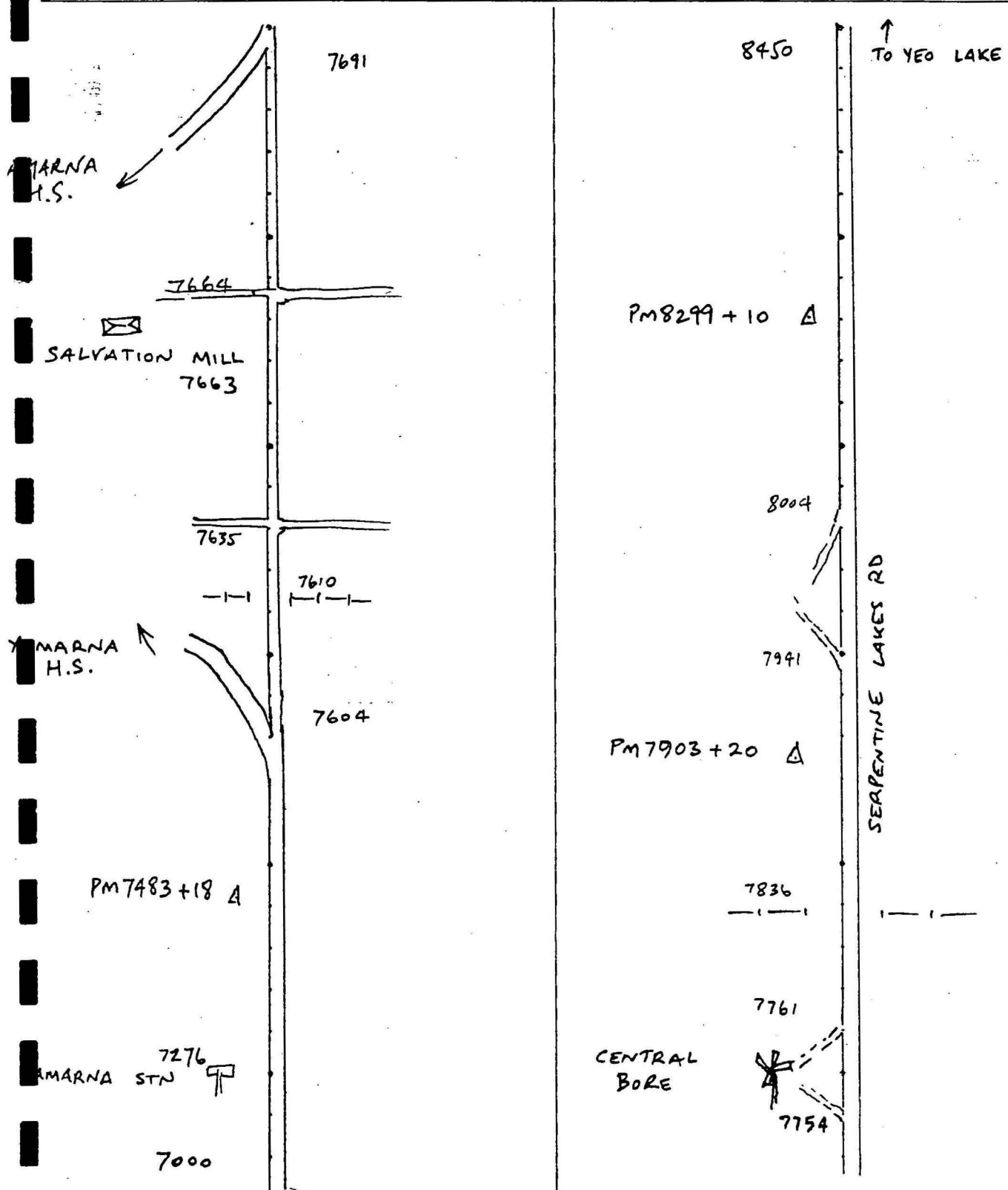
REV 7.0

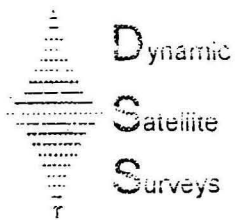
June 2001

Dynamic

Satellite

Surveys

LINE: 01AGSNY1PROJECT/JOB # 01-66CLIENT AGSOPAGE 9 OF 10 AREA: YILGARN STN INTERVAL: 40 m SHOT INTERVAL: _____ mFROM STN 7000 TO STN 8450 SHOOTING DIRECTION: W-E BEARING: 90 °

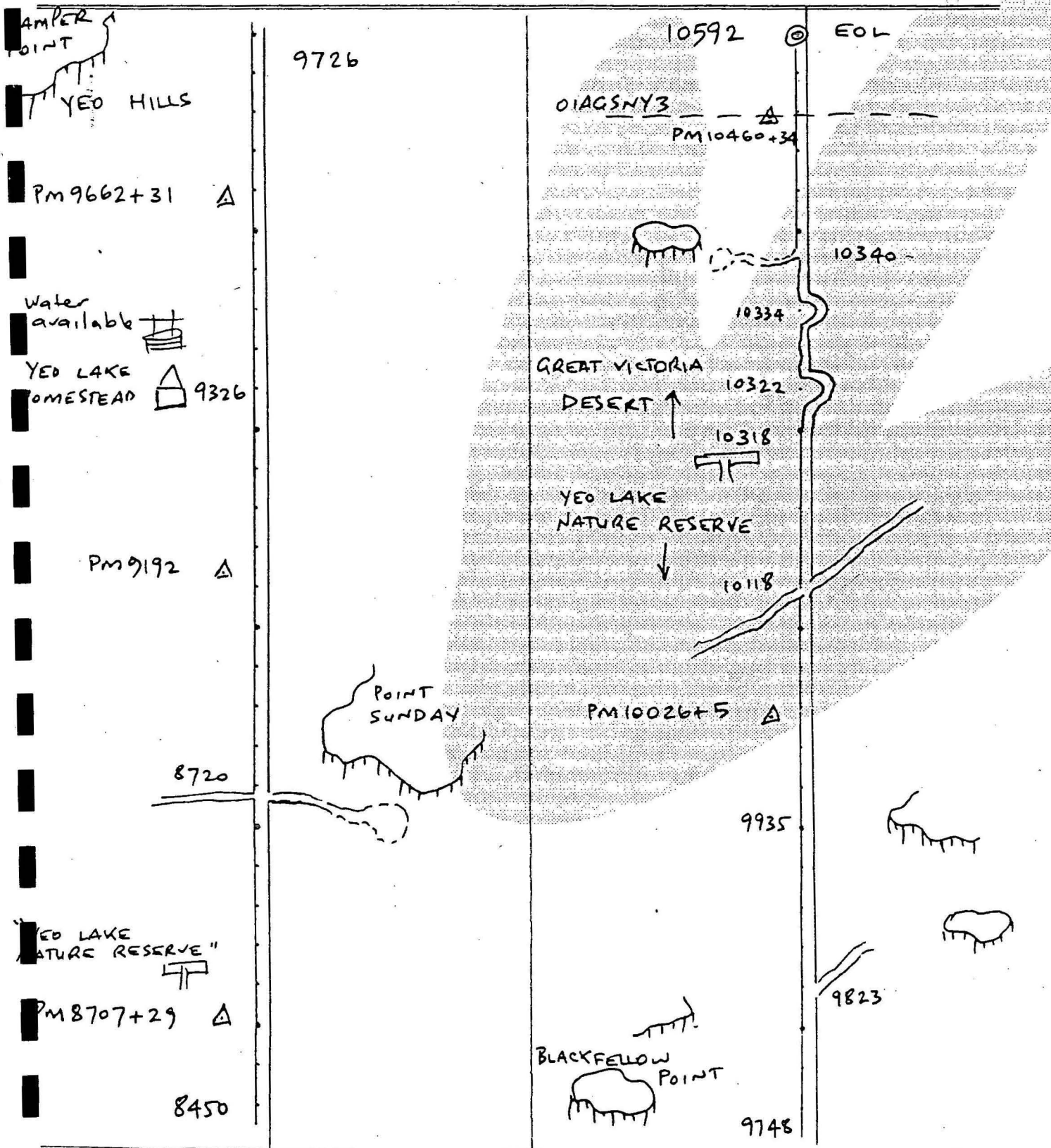


TRACE DIAGRAM

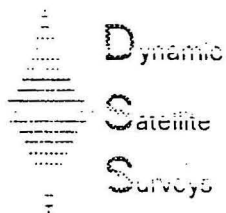
DSS-FF-07

REV 7.0

June 2001

LINE: 01AGSNY1PROJECT/JOB # 01-66CLIENT AGSOPAGE 10 OF 10 AREA: YILGARN STN INTERVAL: 40 m SHOT INTERVAL: _____ mFROM STN 8450 TO STN 10592 SHOOTING DIRECTION: W-E BEARING: 90 °

01-AGSNY2

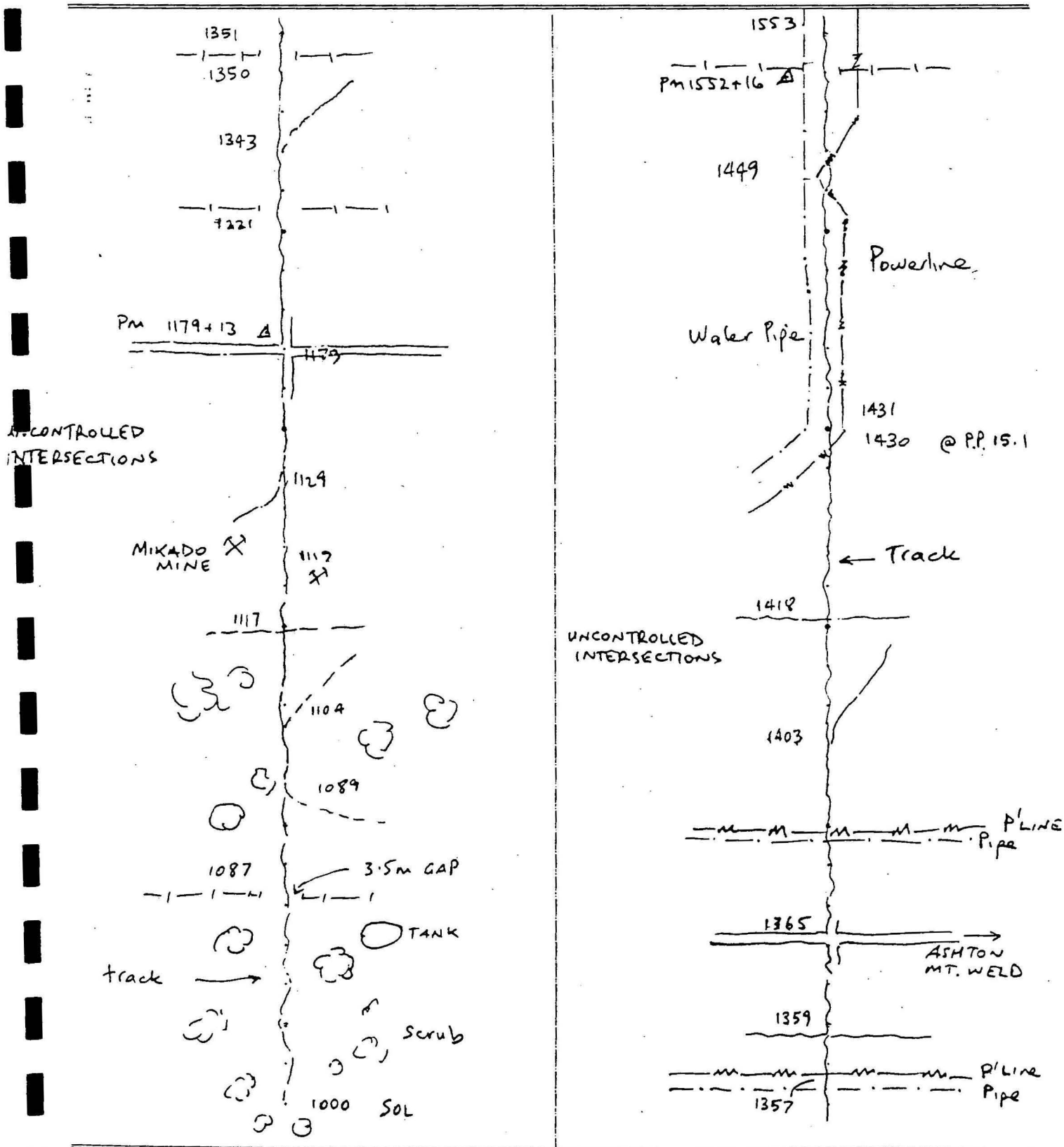


TRACE DIAGRAM

DSS-FF-07

REV 7.0

June 2001

LINE: 01 AGS NY2PROJECT/JOB # 01-66 CLIENT AGSO TRACEPAGE 1 OF 4 AREA: GRANNY SMITH STN INTERVAL: 40 m SHOT INTERVAL: mFROM STN 1000 TO STN 1553 SHOOTING DIRECTION: E-W BEARING: 270 °

TRACE DIAGRAM

DSS-FF-07

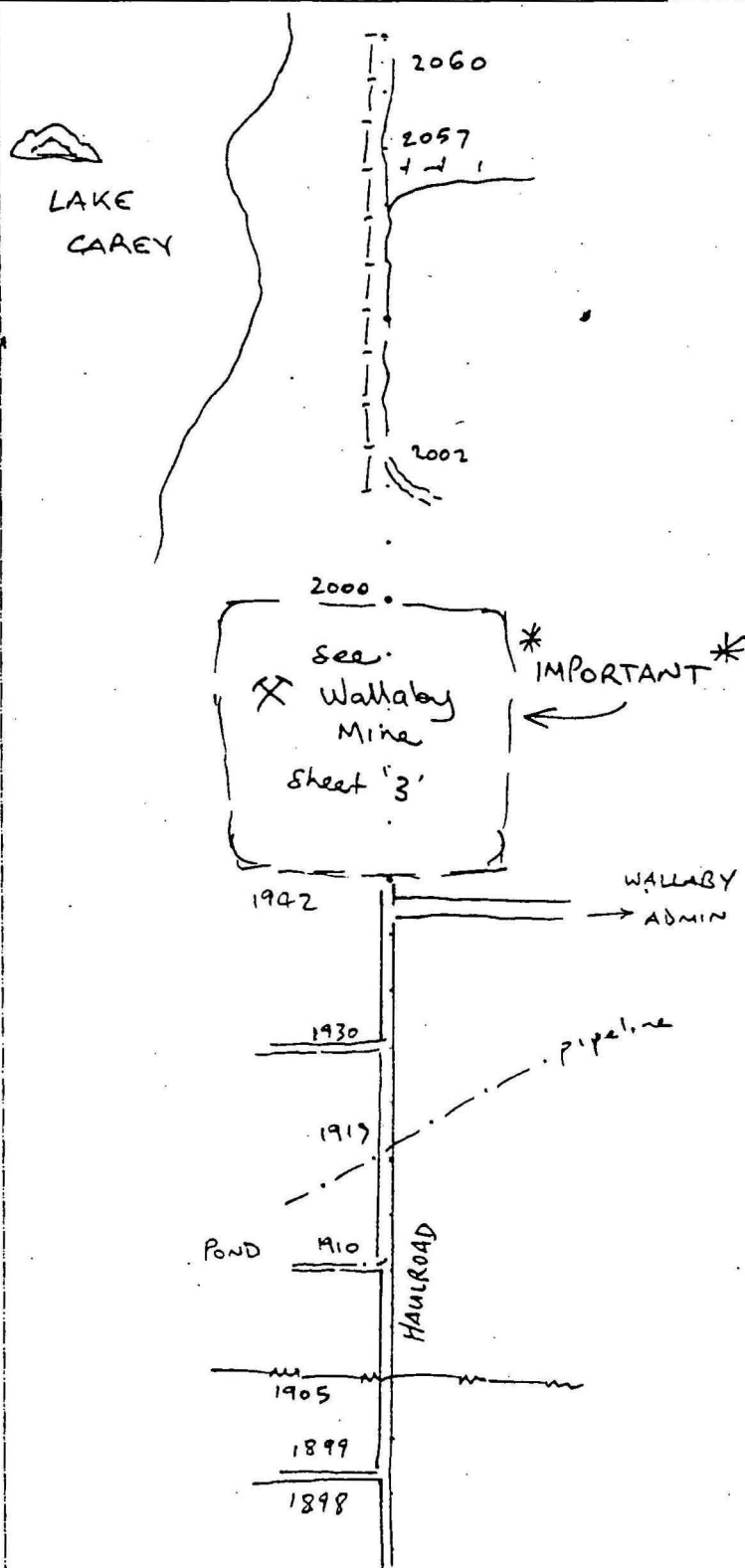
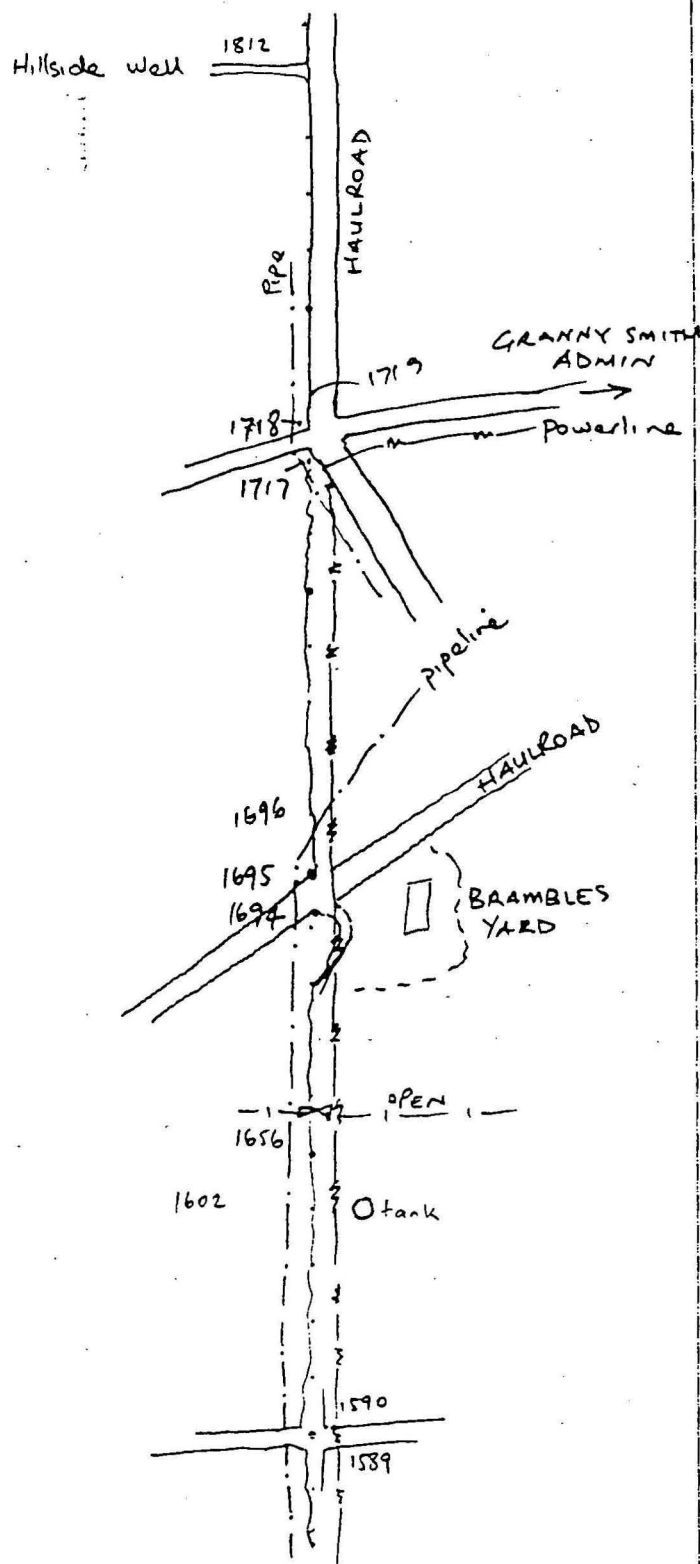
REV 7.0

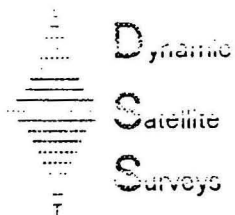
June 2001

Dynamic

Satellite

Surveys

LINE: 01AGSNY2PROJECT/JOB # 01-66CLIENT AGSOPAGE 2 OF 2 AREA: GRANNY SMITH STN INTERVAL: 40 m SHOT INTERVAL: mFROM STN 1553 TO STN 2060 SHOOTING DIRECTION: E-W BEARING: 270 °



TRACE DIAGRAM

DSS-FF-07

REV 7.0

June 2001

LINE: 01AGS NY2

PROJECT/JOB # 01-66 CLIENT AGSO

PAGE 3 OF 4 AREA: GRANNY SMITH STN INTERVAL: 40 m SHOT INTERVAL: m

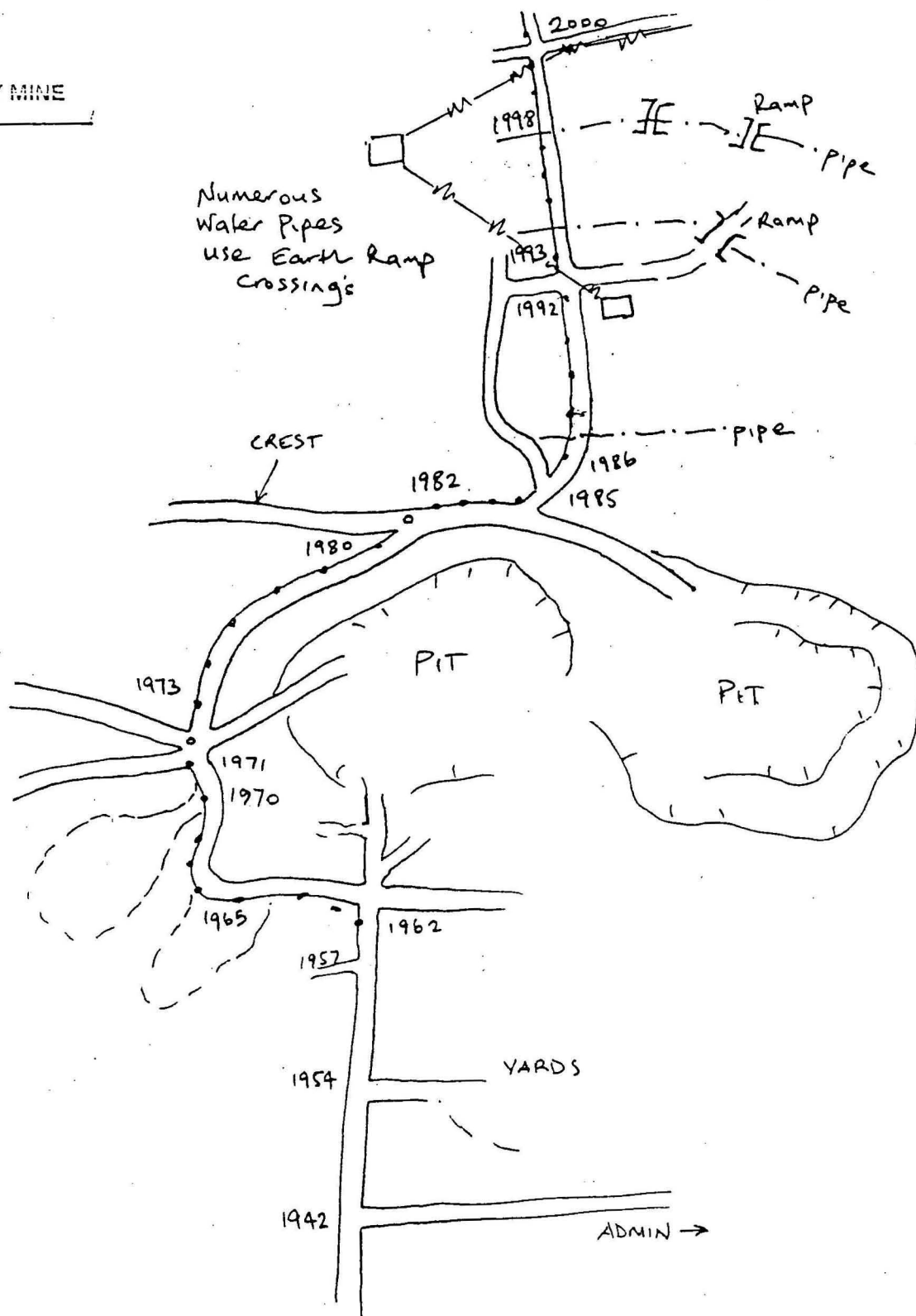
FROM STN 1942 TO STN 2000 SHOOTING DIRECTION: E-W BEARING: 270°

WALLABY MINE

HEAVY TRAFFIC
@ MINE

GSP: 1971-1985

STNS 1972, 1981
NOT PLACED.
HAULROAD



TRACE DIAGRAM

DSS-FF-07

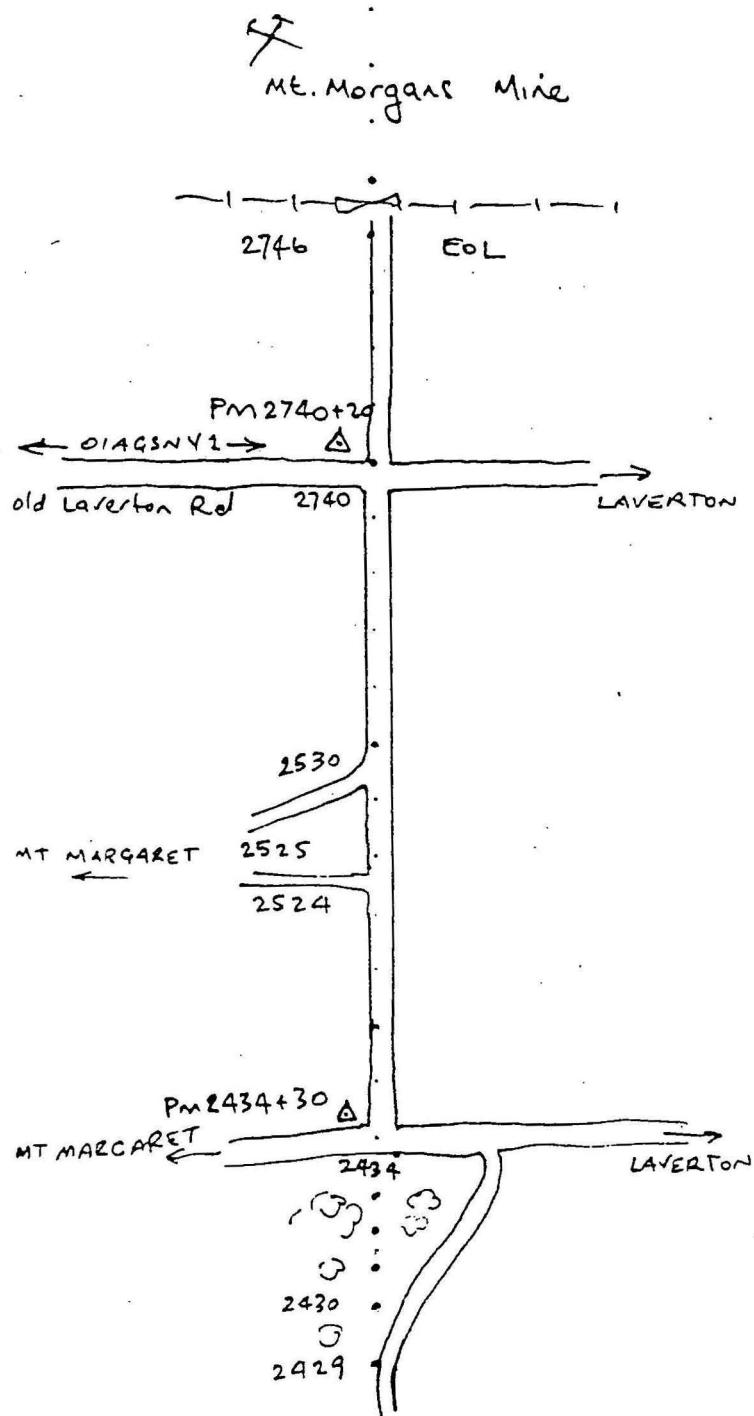
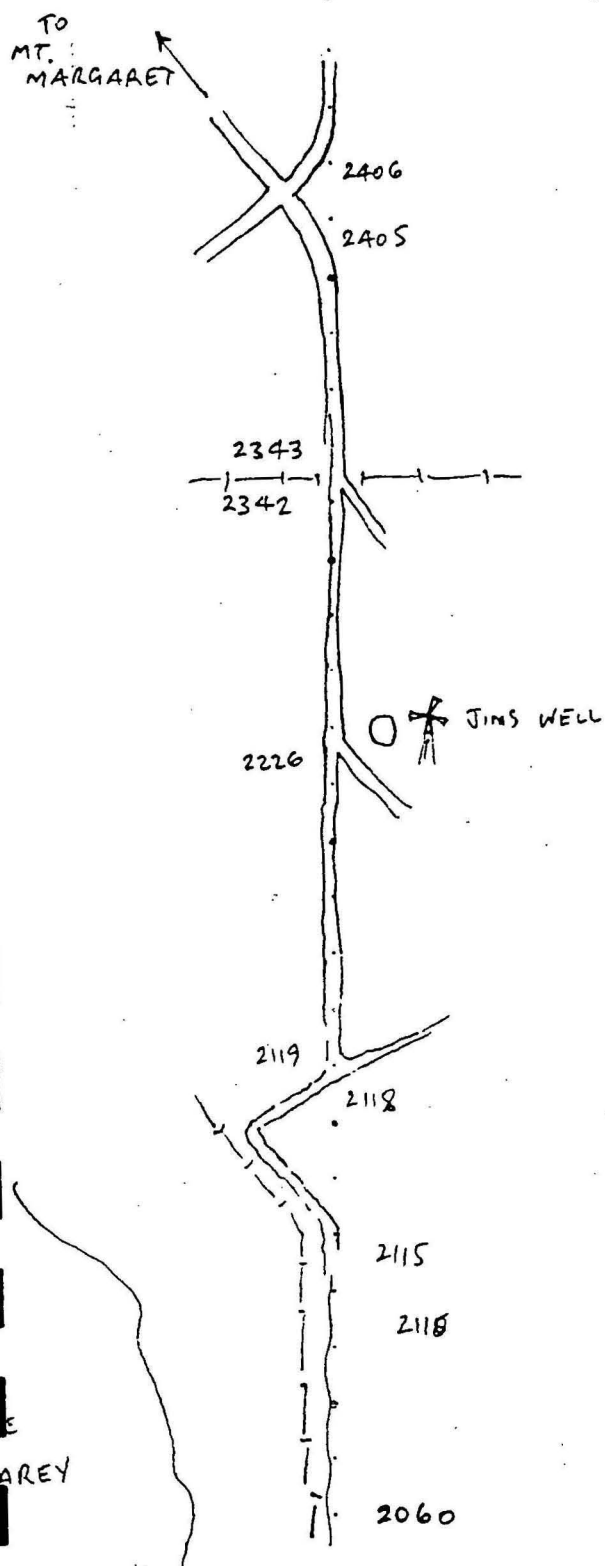
REV 7.0

June 2001

Dynamic

Satellite

Surveys

LINE: 01AGSNY2PROJECT/JOB # 01-66CLIENT AGSOPAGE 4 OF 4 AREA: GRANNY SMITH STN INTERVAL: 40 m SHOT INTERVAL: mFROM STN 2060 TO STN 2746 SHOOTING DIRECTION: E-W BEARING: 270°

01-AGSNY3

TRACE DIAGRAM

DSS-FF-07

REV 7.0

June 2001

Dynamic

Satellite

Surveys

LINE: 01AGSNY3PROJECT/JOB # 01-66CLIENT AGSO / TRACEPAGE 1 OF 1 AREA: NEALE STN INTERVAL: 30 m SHOT INTERVAL: mFROM STN 1040 TO STN 2794 SHOOTING DIRECTION: SW-NE BEARING: 51 °2064+7  WELL NSD12794  EOL

Pm1857+3

A

1794

1784

GUT TRACK

Pm1160

A

01AGSNY1

Serpentine Lakes Rd

LAVERTON
253.5 km

EOL • 1040

2732 Bend

2713

Dune

2709 Bend

Pm2480+22 A

2427

Dune

2422

2346

2343

2316

Dune

2312

2298

Dune

2296

2290

Dune

2287

Alternate
Route
= 500m

2268

2262

2261

Dune

2259

Dune

2256

2253

O1-AGSNY4

TRACE DIAGRAM

DSS-FF-07

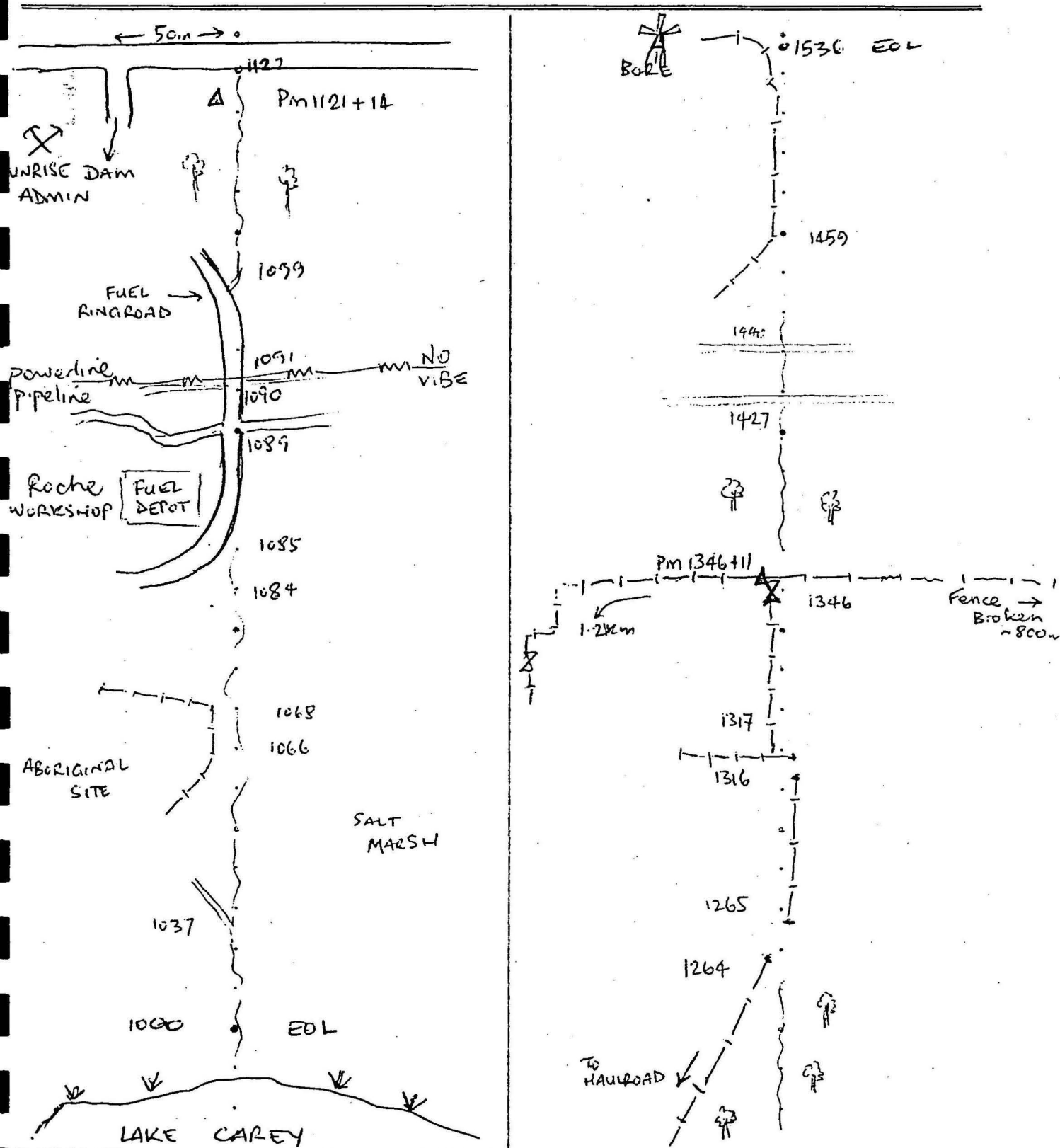
REV 7.0

June 2001

Dynamic

Satellite

Surveys

LINE: 01AGSNY4PROJECT/JOB # 01-66CLIENT AGISO TRACEPAGE 1 OF 1 AREA: SUNRISE DAM STN INTERVAL: 40 m SHOT INTERVAL: mFROM STN 1000 TO STN 1536 SHOOTING DIRECTION: W - E BEARING: °

Photographs



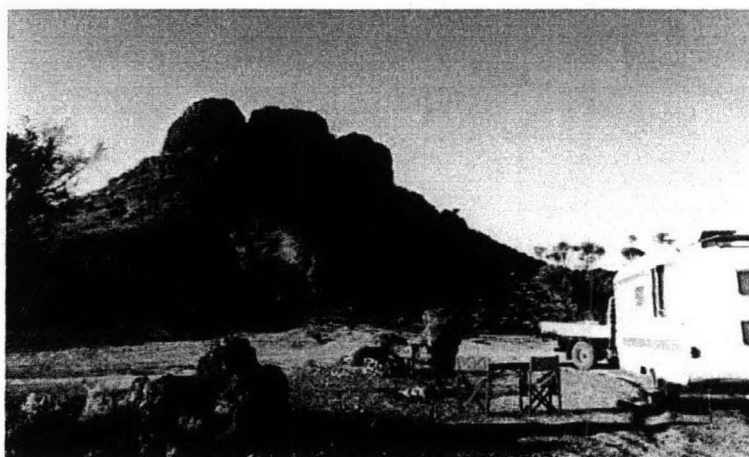
Survey mark LEN 115 - setting up base to send corrections



Survey tie LAV 71 (Enniskillen Cairn)



Section of line 01AGSNY1 - East of Laverton



Final campsite #7 - Bishop Riley's Pulpit



Cut Line on 01AGSNY3 - Northern section