





#### SURVEY L154 YILGARN 2001

LINE : Ø1AGS-NY3

AREA : OFFICER BASIN NEALE JUNCTION (WA)

STATIONS: 1040 - 2794

# MIGRATION

0 - 16 S NORTHEAST

#### RECORDING PARAMETERS

REF: S.BARBOUR, FINAL REPORT-OPERATIONS, 2001

SYSTEM TYPE | ARRIVE4 TAPE FORMAT | ARAM SEG-1

SAMPLE MATE : 2 MSEC FILTERS LOW-HIGH-OUT 3/205 HZ+ NOTCH OUT

FIELD PEELS . L15481869 TO L15481892

IP INTERVAL : 36 H AND 66 H SPREAD PRITTERNA 1....120 × 121....240
OPFSETS (H) 1 -3595....-15 × 15....3595

COVERNOE : 68 PND 128 FOLD (NOMENFIL

### PROCESSING SEQUENCE

- [1] LINE GEOMETRY AND CROOKED LINE DEFINITION (FIXED CDP INT)
- [2] FIELD SEGY TO 'DISCO' FORMAT
- [3] QUALITY CONTROL DISPLAYS AND TRACE EDITS
- [4] SPECTRAL EQUALIZATION (WITH REMOVABLE 1000 MS AGC)
- [5] CMP SORT (BIN WIDE OPEN)
- [6] GAIN RECOVERY (SPHERICAL DIVERGENCE OPTION)
- [7] TRACE AMPLITUDE BALANCE ACROSS USER DEFINED GATES
- [8] SURGICAL AIR WAVE MUTE [9] BULK SHIFT +100 MS
- [10] RPPLICATION OF REFRACTION STATICS (DATUM 350M, REPLACEMENT VELOCITY 4000 M/S) [11] APPLICATION OF AUTOMATIC RESIDUAL STATICS

- [12] BANDPASS FILTER TIME (SEC) 0.0 1.5 2.0 6.0 16.0
- BANDPASS (HZ) / SLOPE (DB/OCTAVE) 16/36 100/36 10/36 80/36 10/36 60/36
- [13] VELOCITY ANALYSIS USING VELEX. 1ST PASS AFTER REFRACTION STATICS. 2ND PASS AFTER AUTOMATIC RESIDUAL STATICS
- [14] NORMAL MOVEOUT CORRECTION (15% STRETCH MUTE)
- [15] COMMON MID POINT STACK (ALPHA TRIMMED MEAN)
- [16] TRACE AMPLITUDE BALANCE
- [17] FINITE DIFFERENCE MIGRATION WITH 90% STACKING VELOCITIES

- [19] SIGNAL ENHANCEMENT (DIGISTACK Ø.8)
- [20] TRACE AMPLITUDE SCALING

# ACQUIRED BY:

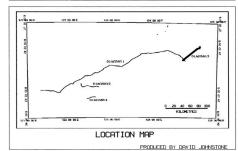
# ANSIR AUSTRALIAN NATIKNAL SEPANIC IMMOZINCI SEPANIC SEPANI

DAVID JOHNSTONE, LEONIE JONES

PROCESSED BY: GEOSCIENCE AUSTRALIA (WWW.GA.GOV.AU) CANBERRA, A.C.T.

PROCESSING: LEONIE JONES, ED CHUDYK POTENTIAL FIELD DATA: BEN BELL BOUGUER REDUCED GRAVITY: REGIONAL SUBTRACTED FROM MAGNETICS

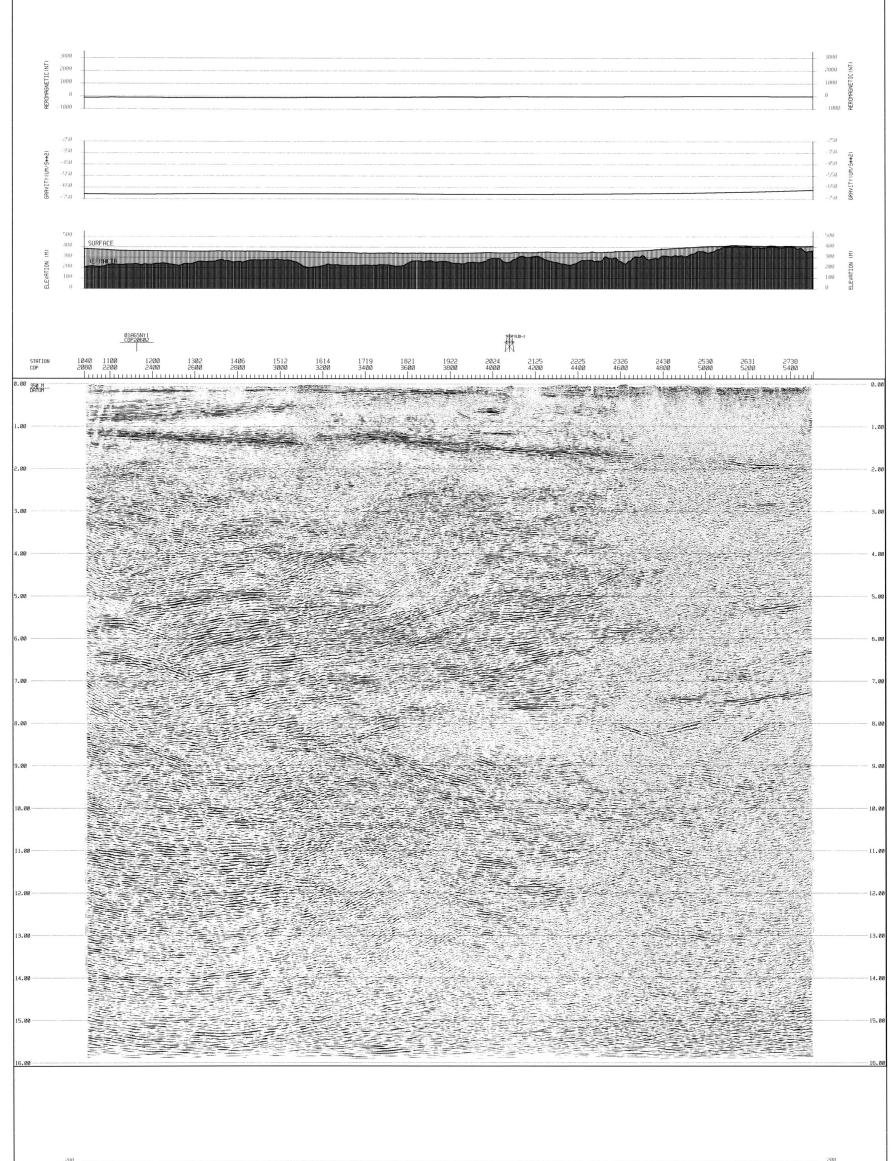
HORIZONTH, SCHLE : 1:1000000 (VERTICAL STRCK OF 2)
VERTICAL SCHLE : 1.611 INCHES/SEC
VIH = 1:1 USING RVERRGE VELOCITY 6000 H/S
NB: 100 MS CORRESPONDS TO 350 M DATUM



COPYRIGHT COMMONWEALTH OF AUSTRALIA 2002

THIS LORK IS COPYRIGHT. APART FROM ANY FAIR DEALINGS FOR THE PURPOSES OF STUDY. RESERRCH. CRITICISM OR REVIEW. RS PERMITTED UNDER THE COPYRIGHT RCT. NO PART MAY BE REPRODUCED BY ANY PROCESS WITHOUT MRITTEN PERMISSION.

INQUIRIES SHOULD BE DIRECTED TO THE CHIEF EXECUTIVE OFFICER, GEOSCIENCE AUSTRALIA, GPO BOX 378, CANBERRA CITY, ACT, 2601 DISCLAIMER



# NORTHEASTERN YILGARN 2001 SEISMIC SURVEY L154 LINE 01AGSNY3 0-16 S MIGRATION ACQUISITION AND PROCESSING

### **GENERAL SURVEY PARAMETERS**

SURVEY NUMBER	L154
SURVEY NAME	NORTHEASTERN YILGARN
SURVEY AREA	OFFICER BASIN - LAKE YEO
TOTAL NUMBER OF LINES	4
IN SURVEY	
THIS LINE NAME	01AGSNY3
DATE ACQUIRED	AUGUST-SEPTEMBER 2001
STATION RANGE	1040 - 2794
ACQUIRED BY	TRACE ENERGY SERVICES FOR ANSIR
REFERENCE - ACQUISITION	S.BARBOUR, FINAL REPORT-OPERATIONS,
	2001
REFERENCE - PROCESSING	L.E.A. JONES, B.R. GOLEBY AND T.J.
	BARTON, SEISMIC PROCESSING – 2001
	NORTHERN YILGARN SEISMIC REFLECTION
	SURVEY (L154)
REFERENCE -	NORTHEASTERN YILGARN SEISMIC
INTERPRETATION	WORKSHOP, AUGUST 2002 - WORKSHOP
	NOTES, GEOSCIENCE AUSTRALIA
GRAVITY & MAGNETIC DATA	FROM GEOSCIENCE AUSTRALIA'S NATIONAL
ALONG LINE	COVERAGE

## **ACQUISITION PARAMETERS**

AOQUIOTTON I ANAMETERO	
ACQUISITION SYSTEM TYPE	ARAM24
TAPE FORMAT	ARAM SEG-Y
TAPE MEDIA	3490E MAGNETIC TAPE AND 5 GBYTE
	EXABYTE
RECORD LENGTH	16 SECONDS
SAMPLE RATE	2 MSEC
FILTERS	LOW/HIGH-CUT 3/205 HZ; NOTCH OUT
FIELD FILES	5387 TO 6612
FIELD REELS	L15401069 TO L15401082
SOURCE TYPE	THREE IVI HEMI-60 VIBES
SWEEP TYPE	3 X 8 SEC VARISWEEPS
	8-72 HZ, 12-100 HZ & 6-80 HZ
SOURCE ARRAY	50 M, CENTRED ON PEG
VIBE CONFIG	15M PAD/PAD, 10 M MOVEUP
VP INTERVAL	30 M & 60 M
SPREAD PATTERN	1120 X 121240
OFFSETS (M)	-358515 X 153585
GROUP PATTERN	12 IN-LINE, 2.5 M SPACING
	CENTRED BETWEEN PEGS
GROUP INTERVAL	30 M
COVERAGE	60 & 120 FOLD (NOMINAL)

#### **PROCESS SEQUENCE**

PROC	ESS SEQUENCE
[1]	LINE GEOMETRY AND CROOKED LINE DEFINITION (FIXED CDP INT)
[2]	FIELD SEGY TO 'DISCO' FORMAT; RESAMPLE TO 4 MS
[3]	QUALITY CONTROL DISPLAYS AND TRACE EDITS
[4]	SPECTRAL EQUALIZATION (WITH REMOVABLE 1000 MS AGC)
[5]	CMP SORT (BIN WIDE OPEN)
[6]	GAIN RECOVERY (SPHERICAL DIVERGENCE OPTION)
[7]	TRACE AMPLITUDE BALANCE ACROSS USER DEFINED GATES
[8]	SURGICAL AIR WAVE MUTE
[9]	BULK SHIFT +100 MS
[10]	APPLICATION OF REFRACTION STATICS, DATUM 350 M (AHD),
	REPLACEMENT VELOCITY: 4000 M/S
[11]	APPLICATION OF AUTOMATIC RESIDUAL STATICS
[12]	BANDPASS FILTER
	TIME (SEC) BANDPASS(HZ)/SLOPE(DB/OCTAVE)
	0.0 - 1.5 16/36 - 100/36
	2.0 10/36 - 80/36
	6.0 - 16.0 10/36 - 60/36
[13]	VELOCITY ANALYSIS USING VELEX, 1ST PASS AFTER REFRACTION
	STATICS, 2ND PASS AFTER AUTOMATIC RESIDUAL STATICS
[14]	NORMAL MOVEOUT CORRECTION (15% STRETCH MUTE)
[15]	COMMON MID POINT STACK (ALPHA TRIMMED MEAN)
[16]	TRACE AMPLITUDE BALANCE
[17]	FINITE DIFFERENCE MIGRATION WITH 90% STACKING VELOCITIES
[18]	BANDPASS FILTER
	TIME (SEC) BANDPASS(HZ)/SLOPE(DB/OCTAVE)
	0.0 - 1.5 16/36 - 80/36
	2.0 - 6.5 10/36 - 70/36
	10.0 10/36 - 60/36
	16.0 10/36 - 40/36
[19]	SIGNAL ENHANCEMENT (DIGISTACK 0.8)
[20]	TRACE AMPLITUDE SCALING

#### **ACQUIRED BY**

DAVID JOHNSTONE & LEONIE JONES

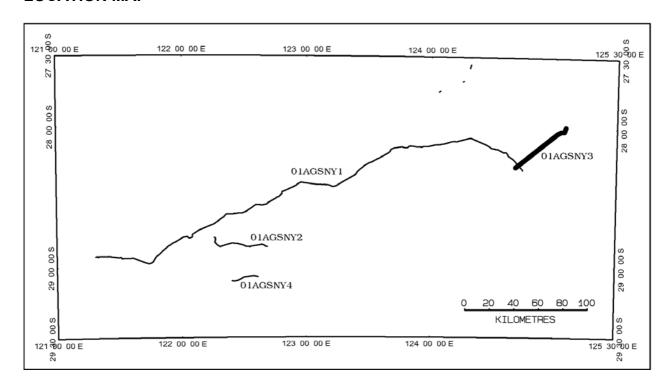
AUSTRALIAN NATIONAL SEISMIC IMAGING RESOURCE (ANSIR)

# PROCESSED BY

LEONIE JONES

GEOSCIENCE AUSTRALIA (www.ga.gov.au) CANBERRA, A.C.T.

#### **LOCATION MAP**



LOCATION MAP SHOWING POSITION OF LINE 01AGSNY3

#### **PUBLICATION NOTE**

PUBLISHED BY GEOSCIENCE AUSTRALIA, DEPARTMENT OF INDUSTRY, TOURISM AND RESOURCES, CANBERRA, AUSTRALIA. ISSUED UNDER THE AUTHORITY OF THE MINISTER FOR INDUSTRY, TOURISM AND RESOURCES.

#### **COPYRIGHT COMMONWEALTH OF AUSTRALIA 2002**

THIS WORK IS COPYRIGHT. APART FROM ANY FAIR DEALINGS FOR THE PURPOSES OF STUDY, RESEARCH, CRITICISM OR REVIEW, AS PERMITTED UNDER THE COPYRIGHT ACT, NO PART MAY BE REPRODUCED BY ANY PROCESS WITHOUT WRITTEN PERMISSION. INQUIRIES SHOULD BE DIRECTED TO THE CHIEF EXECUTIVE OFFICER, GEOSCIENCE AUSTRALIA, GPO BOX 378, CANBERRA CITY, ACT, 2601

#### **DISCLAIMER**

GEOSCIENCE AUSTRALIA HAS TRIED TO MAKE THE INFORMATION IN THIS PRODUCT AS ACCURATE AS POSSIBLE. HOWEVER, IT DOES NOT GUARANTEE THAT THE INFORMATION IS TOTALLY ACCURATE OR COMPLETE. THEREFORE YOU SHOULD NOT RELY SOLELY ON THIS INFORMATION WHEN MAKING A COMMERCIAL DECISION.

#### **AVAILABILITY**

COPIES OF THIS MIGRATED SEISMIC SECTION AND THE ASSOCIATED DIGITAL DATA CAN BE OBTAINED FROM:

GEOSCIENCE AUSTRALIA SALES CENTRE GPO BOX 378 CANBERRA ACT 2601, AUSTRALIA

WEB: www.ga.gov.au
EMAIL: sales@ga.gov.au
TELEPHONE: (02) 6249 9519
FACSIMILE: (02) 6249 9982