SIMPSON - LAKE EYRE REGION
PROSPECTS AND STRONG LEADS

- Dry well
- Dry well, oil show
- Prospect, strong lead
- Gas processing plant
- Oil or gas pipeline, satellite
PROSPECT 1

LAKE PROMISE

BASIN: EROMANGA
TENEMENT: PEL 50
OPERATOR: FELSTEA PTY. LTD.

LATITUDE: 28° 08' 0"
LONGITUDE: 137° 50' 0"

SEISMIC LINE: 86-AGJ SP: 414
TD: 4,800 Ft 1,463 (m)
DRILLING TIME: 15 Days
DISTANCE TO MOOMBA: 250 km

OBJECTIVES:
Namur Sandstone oil

STRUCTURE:
Fault-bounded basement high with onlap and subsequent structural movement.

CLOSURE:
Namur: 15,320 acres (to LCC)
Pool: 6,200 acres
% Area fill: 40%

POTENTIAL RESERVES: 46 MMSTB Rec.
Assuming:
Porosity = 15%
Net Pay = 20 ft.
Area = 6,200 acres
Shrinkage Factor = 0.90
SW = 30%
Recovery = 40%

COMMENTS:
Drillable prospect defined by 8 seismic lines.

DATA SOURCES:
SANTOS
LAKE PROMISE PROSPECT
Line: 86 AGJ
SP: 414 (projected)

LAKE PROMISE PROSPECT
1986 FLETCHER SEISMIC SURVEY
"C" TIME STRUCTURE
PROSPECT 2
LAKE KOOL

BASIN: EROMANGA

TENEMENT: PEL 50

OPERATOR: FELSTEA PTY. LTD.

LATITUDE: 27 56'

LONGITUDE: 137 50'

SEISMIC LINE: 85–YRW SP: 1359

TD: 5,000 Ft 1,524 (m)

DRILLING TIME: 15 Days

DISTANCE TO MOOMBA: 250 km

OBJECTIVES:
Namur Sandstone oil

STRUCTURE:
Basement high with onlap and subsequent structural movement.

CLOSURE:
Namur: 4,200 acres (to LCC)
Pool: 2,225 acres
% Area fill: 53%

POTENTIAL RESERVES: 13 MMSTB Rec.
Assuming:
Porosity = 15%
Net Pay = 20 ft.
Area = 2,225 acres
Shrinkage Factor = 0.90
SW = 30%
Recovery = 40%

COMMENTS:
Drillable prospect defined by 10 seismic lines.

DATA SOURCES:
SANTOS
PROPOSED LOCATION

LAKE KOOL PROSPECT
1985 MORPHETT SEISMIC SURVEY
85-YRW SEISMIC SECTION
PROSPECT 3
LAKESIDE

BASIN: EROMANGA
TENEMENT: PEL 50
OPERATOR: FELSTEA PTY. LTD.

LATITUDE: 28°05'
LONGITUDE: 137°34'
SEISMIC LINE: 86-AGN SP: 402
TD: 5,300 Ft 1,616 (m)
DRILLING TIME: 15 Days
DISTANCE TO MOOMBA: 280 km

OBJECTIVES:
Namur Sandstone oil
Hutton Sandstone oil

STRUCTURE:
NE-SW trending anticline with prominent reverse fault on east flank.

CLOSURE:
Namur: 15,400 acres (to LCC)
Pool: 7,660 acres
% Area fill: 50%

POTENTIAL RESERVES: 46 MMSTB Rec.
Assuming:
Porosity = 15%
Net Pay = 20 ft.
Area = 7,660 acres
Shrinkage Factor = 0.90
SW = 30%
Recovery = 40%

COMMENTS:
Anomalously saline water recovery on trend suggests proximity to oil accumulation.

DATA SOURCES:
SANTOS
SCHEMATIC STRATIGRAPHIC SUMMARY

Prospect 4

Pedrinna

Basin: Eromanga

Tenement: PEL 49

Operator: Felstea Pty. Ltd.

Latitude: 27 05'

Longitude: 137 30'

Seismic Line: 79-WDS SP: 359

TD: 8,900 Ft 2,713 (m)

Drilling Time: 30 Days

Distance to Moomba: 280 km

Objectives:

Primary:
- Poolowanna Fm (Ss) oil - 7900'
- Peera Peera Fm (Ss) oil - 8230'

Secondary:
- Namur Ss oil - 5265'
- Hutton Ss oil - 6750'

Structure:
- NW-trending anticline on southern flank of Poolowanna Trough.
- Extensive basement faulting.

Closure:
- Poolowanna: 3265 acres (to LCC)
- Pool: 1,633 acres
  % Area fill: 50%

Potential Reserves: 14.3 MMSTB Rec

Assuming:
- Porosity = 15 %
- Net Pay = 30 ft.
- Area = 1,633 acres
- Shrinkage Factor = 0.90
- SW = 30%
- Recovery = 40%

Comments:
- Shows (floor and cut) in Miandana 1 located 9 km west. Shallower seismic anomalies relate to basement blocks.

Data Sources:
- Delhi Petroleum
- Santos
**PROSPECT 5**

**MIAMIANA**

**BASIN:** Eromanga

**TENEMENT:** PEL 49

**OPERATOR:** FELSTEA PTY. LTD.

**LATITUDE:** 27°11' 

**LONGITUDE:** 137°28'

**SEISMIC LINE:** 80-WFK SP: 208

**TD:** 8,500 Ft 2,590 (m)

**DRILLING TIME:** 30 Days

**DISTANCE TO MOOMBA:** 280 km

**OBJECTIVES:**

- **PRIMARY:**
  - Poolowanua Fm (Ss) oil - 7600'
  - Peera Peera Fm (Ss) oil - 7925'

- **SECONDARY:**
  - Namur Ss oil - 5210'
  - Hutton Ss oil - 6685'

**STRUCTURE:**

- Major NW-trending anticline on southern flank of Poolowanua Trough.
- Extensive basement faulting.

**CLOSURE:**

- Namur Ss: 13,800 acres (to LCC)
- Pool: 6,900 acres
- % Area fill: 50%

**POTENTIAL RESERVES:** 60.5 MMSTB Rec

**Assuming:**

- Porosity = 15%
- Net Pay = 30 ft.
- Area = 6,900 acres
- Shrinkage Factor = 0.90
- SW = 30%
- Recovery = 40%

**COMMENTS:**

- Shows (fluor. and cut) in Miandana 1 located 16 km NW. Peera Peera Ss channels cut into basement on structure on two seismic lines.

**DATA SOURCES:**

- Delhi Petroleum
- SANTOS
SCHEMATIC STRATIGRAPHIC SUMMARY

PROSPECT 6
PENDULLA

BASIN: EROMANGA
TENEMENT: PEL 49
OPERATOR: FELSTEA PTY. LTD.
LATITUDE: 26 31'
LONGITUDE: 137 29'
SEISMIC LINE: 80-WFX SP: 209
TD: 10500 Ft. 3,200 (m)
DRILLING TIME: 35 Days
DISTANCE TO MOOMBA: 320 km

OBJECTIVES:
Poolowanna Fm (Ss) oil
Peera Peera Fm (Ss) oil

STRUCTURE:
NW-SE trending anticline in central Poolowanna Trough

CLOSURE:
Poolowanna Fm: 1050 acres (to LCC)
Pool: 787 acres
% Area fill: 75%

POTENTIAL RESERVES: 4.7 MMSTB Rec.
Assuming:
Porosity = 15%
Net Pay = 20 ft.
Area = 787 acres
Shrinkage Factor = 0.90
SW = 30%
Recovery = 40%

COMMENTS:
Poolowanna 1 oil recovery (96 BOPD) located 22km ENE; numerous shows (fluor. and cut) reported from Walkandi 1 located 4 km SW.

DATA SOURCES:
Delhi Petroleum
SANTOS
PENDULLA PROSPECT
Line: 80-WFX
SP: 209

PENDULLA PROSPECT
1980 KOOMARINNA SEISMIC SURVEY
"C" TIME STRUCTURE
PROSPECT 7

PENUNGA

BASIN: EROMANGA

TENEMENT: PEL 49

OPERATOR: FELSTEA PTY. LTD.

LATITUDE: 26 37'

LONGITUDE: 137 26'

SEISMIC LINE: 79-WDY SP: 137

TD: 10500 3,200 (m)

DRILLING TIME: 35 Days

DISTANCE TO MOOMBA: 320 km

OBJECTIVES:
Poolowanna Fm (Ss) oil
Peera Peera Fm (Ss) oil

STRUCTURE:
NW-SE trending anticline in central Poolowanna Trough

CLOSURE:
Poolowanna Fm: 2500 acres
Pool: 1875 acres
% Area fill: 75%

POTENTIAL RESERVES: 16.7 MMSTB Rec
Assuming:
Porosity = 15%
Net Pay = 30 ft.
Area = 1875 acres
Shrinkage Factor = 0.90
SW = 30%
Recovery = 40%

COMMENTS:
Poolowanna 1 oil recovery (96 BOPD) located 30km NE; numerous shows (fluor. and cut) reported from Walkandi 1 located 8 km NE.

DATA SOURCES:
Delhi Petroleum
SANTOS