

# **APPENDIX I**

## **2002-2003 Exploration Programme & Gantt Charts**

GREAT SOUTH LAND MINERALS LIMITED  
ACN 068 650 386

**EXPLORATION PROGRAMME**  
**2002 - 2003**

Special Exploration Licence 13/98

**June 2002**

## **SEISMIC**

- STAGE 1 :** Nearly 660 line kilometres of vibroseis seismic survey were acquired by Trace Energy Services during the period February 2001 to June 2001. The data has been processed by Robertson Research in Perth. Final and migrated stacks have been received for all of the lines. A preliminary interpretation of the final stacks was verbally presented by Dr Mike Swift of Applied GeothermEx. Andrew Stacey, from the University of Tasmania, also prepared a preliminary interpretation of TB01 and presented it to GSLM in June 2002. A complete interpretation will be prepared as part of the SPIRT program and reviewed by Dr Clive Burrett.  
**Cost estimate: \$110,000 - '02/'03**
- STAGE 2 :** The initial interpretation of the seismic survey TB01 indicates the presence of a number of anticlinal structures. Approximately 200 line kilometres of seismic survey is planned starting late spring in 2003 to define the structures at Bellevue, Bronte, Laughing Jack Lagoon, Great Lake, Mt Arrowsmith, Derwent Bridge, Steppes, Scotts Tier, Interlaken, Bracknell, Macquarie River and Hummocky Hills. Detailed planning for these seismic lines will be carried out once the Stage 1 interpretation task has been completed. The terrain in the Central Plateau will require the use of bulldozers to clear rough tracks to allow passage of the vibroseis trucks. Structure definition in the Longford basin is expected to be relatively straight forward as the area will generally be easily accessible to the vibroseis trucks during the dry summer months.  
**Cost estimate: \$800,000 - '03/'04**
- STAGE 3 :** A number of wells were drilled and collared in 1997. We plan to acquire approximately 100 line kilometres of seismic data in the immediate vicinity of the wells, Lonnvale #1, Pelham #1 and Bridgewater #1 in order to evaluate the potential for drilling ahead on these wells. Due to the difficult terrain it is anticipated a poor production rate will be encountered leading to a cost in excess of \$6,000 per kilometre.  
**Cost estimate: \$600,000 - '03/'04**
- STAGE 4 :** This will involve continuing the regional grid over the Tasmania Basin. We plan to acquire 700 to 800 line kilometres, mainly along roads to expand our seismic coverage to the South, South East and East parts of the Tasmania Basin.  
**Cost estimate: \$1,400,000 - '03/'04**
- NOTE :** Stage 2, 3 and 4 seismic acquisition is currently planned to commence in late spring 2003. Processing and interpretation will be carried out on the seismic data acquired during Stage1, Stage 2 and Stage 3.

## **DRILLING**

- STAGE 1 :** The stratigraphic well Hunterston #1 was pre-collared to a depth of 336 metres in 1997. The preliminary interpretation of the TB01 seismic data indicates that the surface mapped dome structure extends to depth. Drilling and coring operations were restarted in May 2002 with a mineral rig equipped with an annular BOP and is expected to be completed by the end of July 2002. The original well plan called for the coring and drilling of this well to a depth of 1,200 metres. Should formation conditions permit we will revise the well plan and seek approval from MRT to deepen the well to 2,000 metres. Geological data derived from this well along with seismic velocity measurements will be vital to the more detailed interpretation of TB01 seismic data.  
**Cost estimate: \$700,000 - '01/'02, \$300,000 – '02/'03**
- STAGE 2 :** Following the deepening of Hunterston #1 the rig will be moved to a location approximately 5 kilometres off structure on the Bellevue anticline. The stratigraphic well, Gezer #1, is planned to be drilled and cored to a depth of 1,400 metres. As with Hunterston #1, should formation conditions permit we will revise the well plan and seek approval from MRT to deepen the well to 2,000 metres.  
**Cost estimate: \$700,000 – '02/'03**
- STAGE 3 :** Depending on the results of the stratigraphic wells Hunterston #1 and Gezer #1 it is then planned to drill on two of the three locations that were initially drilled and cased in 1997. The locations will be picked from Lonnavale #1, Pelham #1 and Bridgewater #1 based on the results of further detailed field mapping and analyses of geochemical data by the SPIRT team.  
**Cost estimate: \$1,400,000 – '02/'03**
- STAGE 4 :** Depending on the results of the preceding four stratigraphic wells it is possible that a further stratigraphic well would be drilled at the remaining location that was initially drilled and cased in 1997.  
**Cost estimate: \$300,000 – '02/'03, \$400,000 – '03/'04**

### **Notes :**

- The expenditure to achieve the Seismic and Drilling activities described above is currently estimated to be well in excess of the \$2 million yearly expenditure commitment made by GSLM as part of the conditions of SEL 13/98.
- Details of timing will depend on the availability of funding and resources, and will be updated as information becomes available.

## **COAL BED METHANE**

**STAGE 1 :** A thorough literature search will be followed by field inspection of relevant mining areas and locations of significant coal occurrence. These efforts will be incorporated into a geological model for coal bed methane occurrence that will act as a guide for selecting priorities for testing.

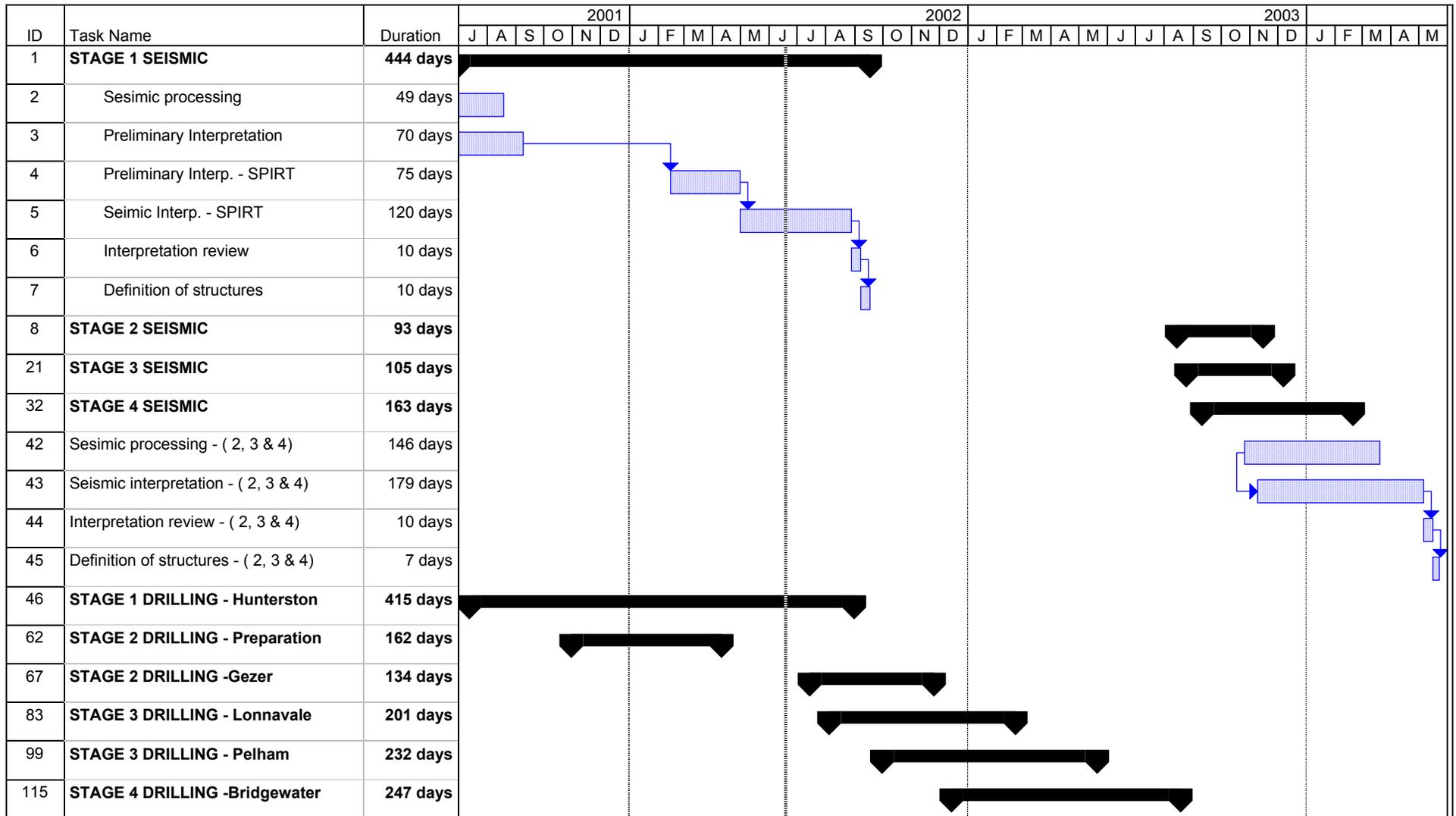
**Cost estimate: not determined - '02/'03**

**STAGE 2 :** A priority target to test by drilling will be selected from the results of the model developed in Stage 1. Depth to the coal seams and drilling techniques adopted will be influenced by the model. A series of three holes within a close proximity are planned for the first test area.

**Cost estimate: not determined - '02/'03**

**STAGE 3 :** A second priority target will be selected based on the model developed in Stage 1 and the results from Stage 2. Depth to the coal seams and drilling techniques adopted will be influenced by the previous results. A series of three holes within a close proximity are planned for the second test area.

**Cost estimate: not determined - '03/'04**



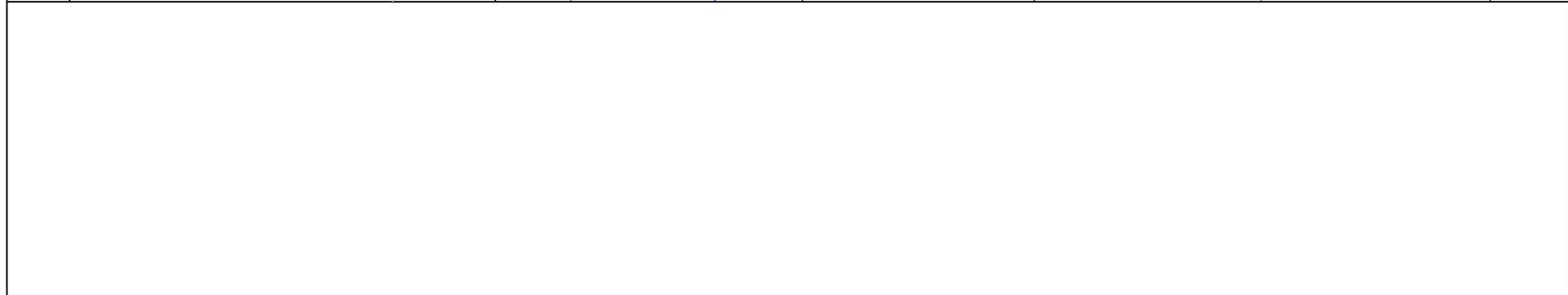
Project: Exp Strategy Jul-01 Date: Tue 18/06/02	Task		Summary		Rolled Up Progress	
	Split		Rolled Up Task		External Tasks	
	Progress		Rolled Up Split		Project Summary	
	Milestone		Rolled Up Milestone			

ID	Task Name	Duration	Qtr 2, 2002	Qtr 3, 2002				Qtr 4, 2002			Qtr 1, 2003			Qtr 2, 2003			
			Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
1	<b>STAGE 1 SEISMIC</b>	<b>444 days</b>															
2	Sesimic processing	49 days															
3	Preliminary Interpretation	70 days															
4	Preliminary Interp. - SPIRT	75 days															
5	Seimic Interp. - SPIRT	120 days															
6	Interpretation review	10 days															
7	Definition of structures	10 days															
8	<b>STAGE 2 SEISMIC</b>	<b>93 days</b>															
21	<b>STAGE 3 SEISMIC</b>	<b>105 days</b>															
32	<b>STAGE 4 SEISMIC</b>	<b>163 days</b>															
42	Sesimic processing - ( 2, 3 & 4)	146 days															
43	Seismic interpretation - ( 2, 3 & 4)	179 days															
44	Interpretation review - ( 2, 3 & 4)	10 days															
45	Definition of structures - ( 2, 3 & 4)	7 days															



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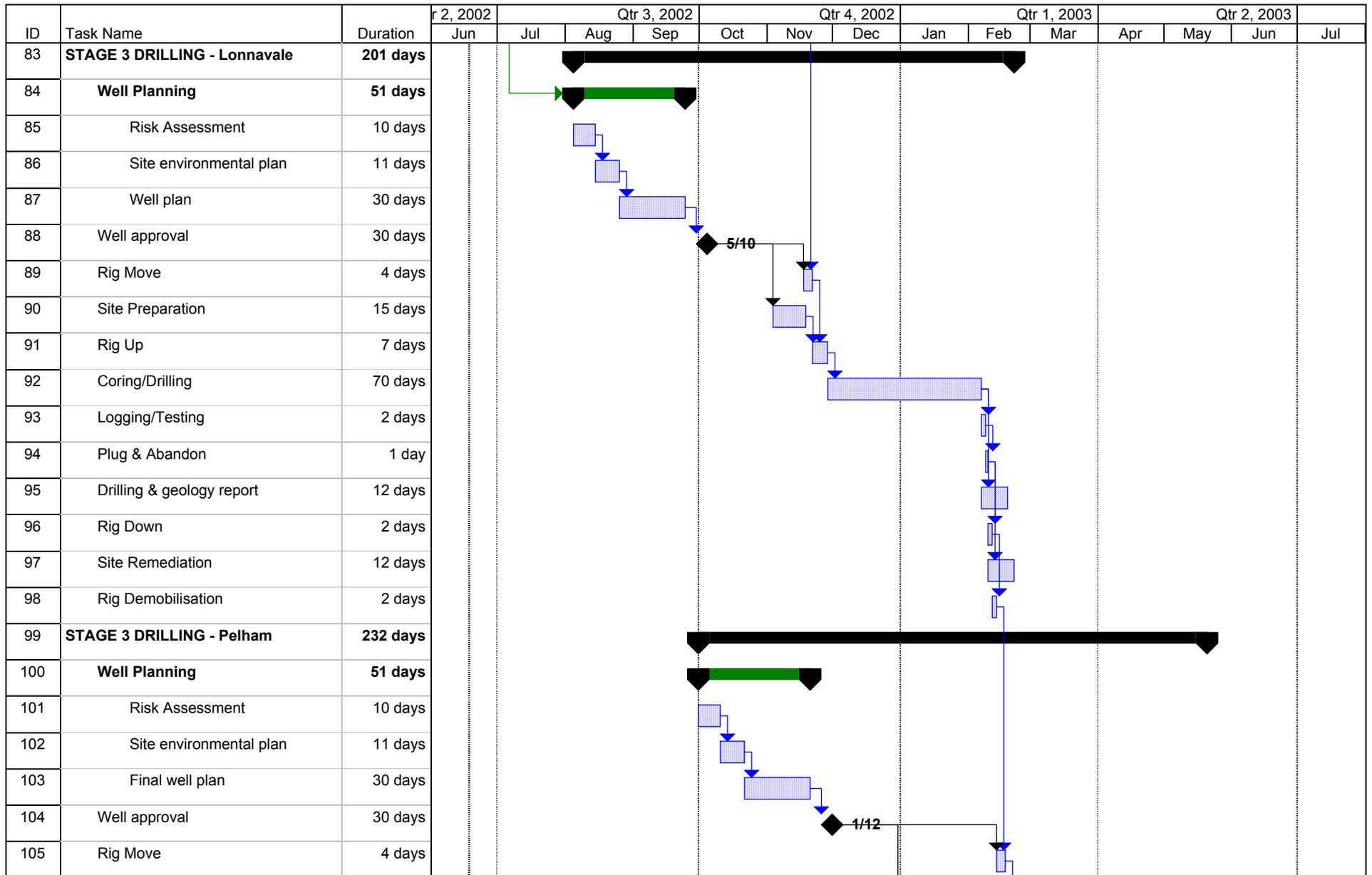
ID	Task Name	Duration	Qtr 2, 2002	Qtr 3, 2002				Qtr 4, 2002			Qtr 1, 2003			Qtr 2, 2003			
			Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
46	<b>STAGE 1 DRILLING - Hunterston</b>	<b>415 days</b>															
47	Risk Assessment	20 days															
48	Well Approval	1 day															
49	Rig Mobilisation	305 days															
50	Site Planning	7 days															
51	Site Preparation	4 days															
52	Rig Up	12 days															
53	Test Well Head	8 hrs															
54	Test casing	8 hrs															
55	Drill out cement plug	8 hrs															
56	Coring/Drilling	64 days															
57	Testing	2 days															
58	Plug & Abandon	1 day															
59	Rig Down	2 days															
60	Site Remediation	12 days															
61	Rig Demobilisation	2 days															



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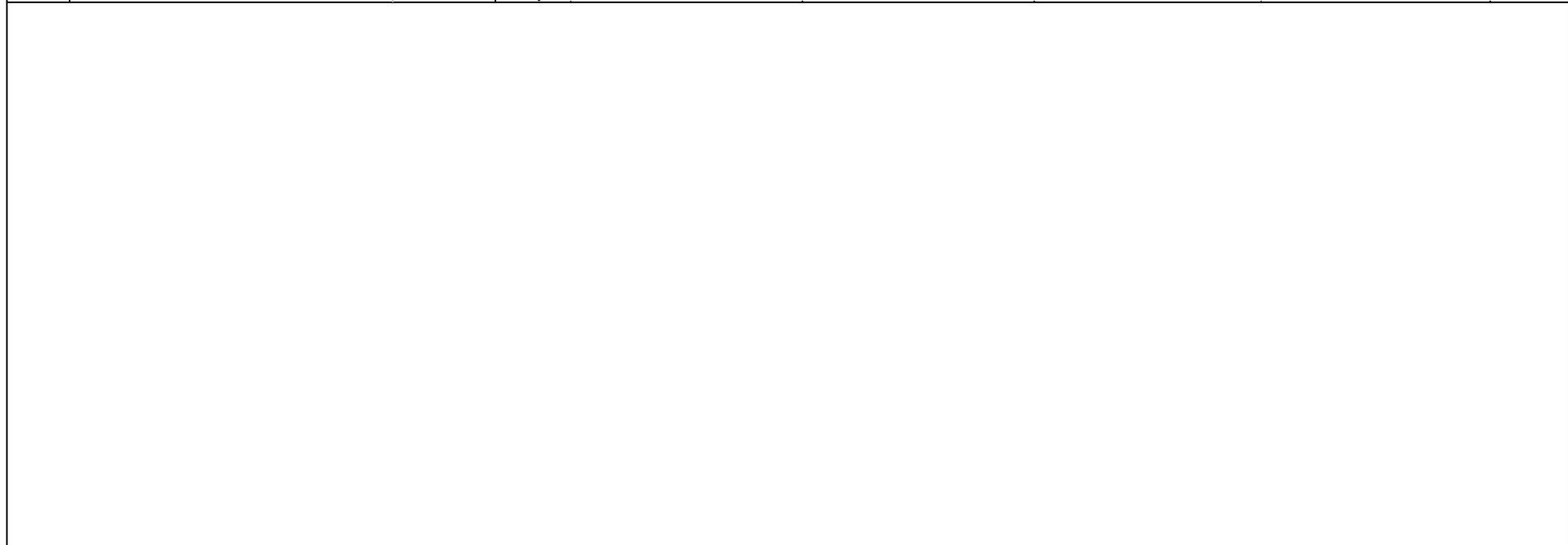
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			Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
62	<b>STAGE 2 DRILLING - Preparation</b>	<b>162 days</b>														
63	Risk Assessment	8 days														
64	Site environmental plan	7 days														
65	Preliminary well plan	31 days														
66	Conditional Well Approval	116 days														
67	<b>STAGE 2 DRILLING -Gezer</b>	<b>134 days</b>														
68	<b>Well Planning</b>	<b>11 days</b>														
69	Risk Assessment	2 days														
70	Site environmental plan	4 days														
71	Final well plan	5 days														
72	Well approval	1 day														
73	Rig Move	2 days														
74	Site Preparation	15 days														
75	Rig Up	7 days														
76	Coring/Drilling	70 days														
77	Logging/Testing	2 days														
78	Plug & Abandon	1 day														
79	Drilling & geology report	12 days														
80	Rig Down	2 days														
81	Site Remediation	12 days														
82	Rig Demobilisation	2 days														

Project: Exp Strategy Jul-01 Date: Tue 18/06/02	Task		Summary		Rolled Up Progress	
	Split		Rolled Up Task		External Tasks	
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			Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
106	Site Preparation	15 days														
107	Rig Up	7 days														
108	Coring/Drilling	70 days														
109	Logging/Testing	2 days														
110	Plug & Abandon	1 day														
111	Drilling & geology report	12 days														
112	Rig Down	2 days														
113	Site Remediation	12 days														
114	Rig Demobilisation	2 days														
115	<b>STAGE 4 DRILLING -Bridgewater</b>	<b>247 days</b>														



Project: Exp Strategy Jul-01 Date: Tue 18/06/02	Task		Summary		Rolled Up Progress	
	Split		Rolled Up Task		External Tasks	
	Progress		Rolled Up Split		Project Summary	
	Milestone		Rolled Up Milestone			