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Bass Strait Oil Company

DRILLING & EVALUATION PROGRAM

Melville-1 Permit: Vic P/42

Prepared by RBT Petroleum Associates Pty Ltd.

> Date: 26th September, 2001 **Revision 3**

Brian Searles (RBT)

Reviewed by F.P. W. Curry

Mike Lanzer (RBT)

Reviewed by .Q.

John Bell (RBT)

Jan Reid (BSOC)

Approved by .

Geoffrey Albers (BSOC)



DOCUMENT REVISION RECORD

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Rev 1	19 th September 2001	Revisions to LWD and wireline programme	Brian Searles		
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Rev 4					
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OUTLINE

Victorian permit VIC P/42 is situated in the Gippsland Basin, Bass Strait approximately 50 kilometres to the southeast of the coastline, closely located to both the Bream Oil and Gas Field and the Kingfish Oil Field. It covers an area of some 1876 square kilometres, in water depths of between 50 to 80 metres. The block is operated by Bass Strait Oil Company Limited.

Melville-1 is situated in the central eastern portion of Vic P/42, and is planned to be drilled to a total depth of 3345 mRT to determine if commercial quantities of hydrocarbons are present in the target Golden Beach Formation. The Golden Beach Formation is prognosed at 2786 mRT, with an anticipated gross thickness of 560 metres.

Melville-1 is planned to spud in November, 2001, using the Ocean Bounty drilling rig.

DISTRIBUTION

Joint Venturers/Government:

Inpex	3 Copies
Victorian Department of Minerals & Energy	3 Copies
	•
Bass Strait Oil Company	5 Copies

RBT Petroleum Associates:

Drilling Superintendent	1 Copy
Director – Drilling Operations	1 Copy
Senior Drilling Engineer	1 Copy
Drilling Supervisors	2 Copies

REFERENCES

RBT Offshore Drilling Operations Manual

Bass Strait Oil Company Emergency Response Plan - Offshore Operations

Bass Strait Oil Company Oil Spill Contingency Plan for Permit Vic P/42

Environmental Management Plan for Permit Vic P/42

Petroleum (Submerged Lands) Acts - Specific Requirements as to Offshore Petroleum Exploration and Production.



1.0 WELL SUMMARY

1.1 Well Data Sheet

Well Melville-1

Well Type Exploration, vertical

Permit Vic P/42

Operator Bass Strait Oil Company Ltd. (50%)

Joint Venture Partner INPEX Alpha, Ltd. (50%)

Anticipated Spud Date November, 2001

Drilling Rig Ocean Bounty

Drilling Contractor Diamond Offshore General Company

Water Depth (LAT) 75 m (msl to LAT approx. m)

RT above LAT 26 m

Well Location Details:

Projection UTM Zone 55 Australian National Ellipsoid

Datum Australian National Spheroid

Latitude 38° 41' 03" S Longitude 147° 59' 08" E

Longitude 147° 59' 08" E Easting 585 728.3m

Northing 5 717 789.6m

Location Tolerance Circle of radius 50m from location

Primary Objective Golden Beach Sub Group

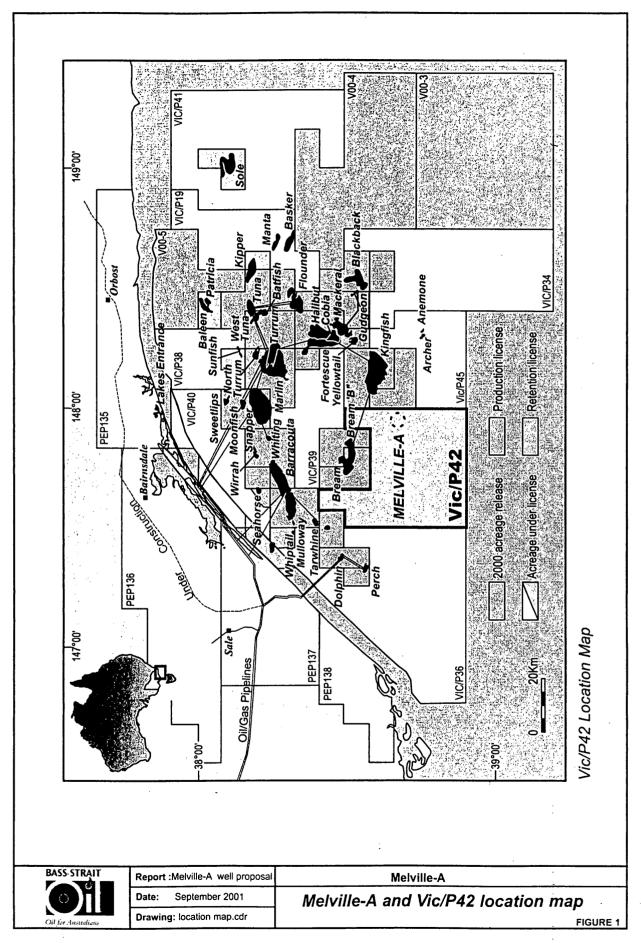
Secondary Objectives Latrobe Siliciclastics

Expected Hydrocarbon Types Oil, possibly gas / condensate

Production Testing Dependent on occurrence of economic

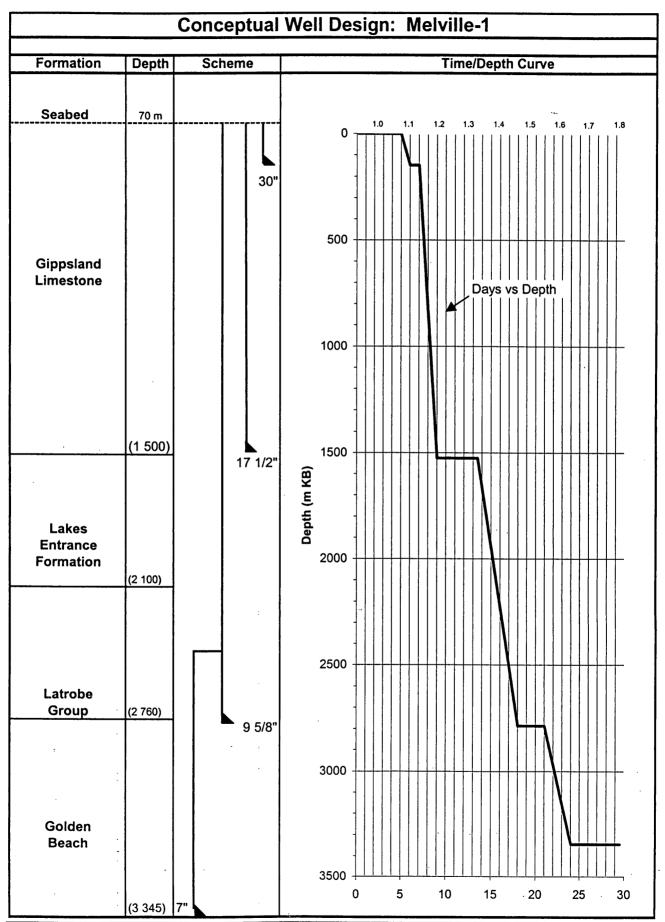
hydrocarbons







1.3 Program Design Summary





2.0 GEOLOGICAL INFORMATION

2.1 Prospect Definition

Prospect structure

The Melville-1 prospect is a feature in the central eastern portion of block VIC P/42, immediately south of the Bream Oil and Gas field, and slightly to the west of Kingfish Oil Field.

Well objective

The Golden Beach Sub Group is the primary target in Melville-1. It will test the presence of commercial oil-gas-condensate and evaluate the reservoir quality of the target Golden Beach Sub Group.

Secondary objective in Melville-1 is the Latrobe Siliciclastics. The secondary objective will provide information on the downthrown fault closure potential to the south west of the Melville prospect.

Reservoir

The Golden Beach Sub-group reservoir development of the Melville area is expected to be very similar to that along the downthrown margin Darriman fault trend at Archer and Anemone. In Anemone-1A unusually high porosities up to 23% from 4498-4748mss, are observed in marine sandstones of the Golden Beach Sub-group. Average porosities of 15% or greater exist down to 4500m. Other examples of more marine sandstones in the Golden Beach Sub-group exist, with average porosities in Basker-1 of 22% (2163-2866mss), Volador-1 21% (3000-3525mss) and Manta-1 of 22% (2013-2567mss).

Core significant hydrocarbon bearing reservoirs in objective sequences. Production test to investigate flow rates, potential fault compartmentalisation, limits of aquifer and oil quality variations, if economic hydrocarbons encountered.

MDT test the Latrobe Siliciclastics if moveable hydrocarbons are encountered.

Hydrocarbon charge

Source rocks of dominantly landplant origin occur throughout the Latrobe Group sequence, with high TOC values (>2%) and moderate to high hydrogen indices (mode 250mgHC/g. org.C). The Golden Beach Sub-group sediments are the dominant source for the oil and gas accumulations in the Gippsland Basin. The kitchen area northeast of Melville reaches maximum depths at top Golden Beach Sub-group of only 3200m in the saddle with Kingfish, and so there is expected to be a much greater likelihood of oil charge to Melville. This kitchen, often referred to as the 'Kingfish Deep' is around the Kingfish oilfield, where no gas is encountered.

The occurrence of oil shows and hydrocarbon pay zones at Omeo-1 and oil shows in Omeo-2A, Gurnard-1 and Nannygai-1, plus the Kingfish and Bream oil and gas fields, clearly support the existence of a mature kitchen or kitchens, within or adjacent to Vic/P42. Relative maturity appears to be the main control over the gas and oil distribution patterns in top Latrobe hydrocarbon accumulations. The lower relative maturities of kitchens accessed by prospects in Vic/P42 would favour a predominance of oil over gas in any pay in Melville-A.

Seal

In the Latrobe Siliciclastics section, lower coastal plain facies of low net to gross contain numerous shale units which, although thin and discontinuous, can be effective intra-formational seals (e.g. Tuna, Turrum, Wirrah, Barracouta, Snapper, Flounder, Basker and Manta). Although



their discontinuous nature suggests that they do not have integrity as cross-fault seals. Marine shales, identified in wells Anemone-1A and Archer-1 to the southeast, represent the first basinwide marine incursions in the southeastern part of the basin. Seismic interpretation suggests a correlation of these shales through the Melville area of Vic/P42. These shales may provide significant potential for intraformational sealing and stacked pay zones.

Total Depth

The TD criteria is to drill to 3345m RT, or penetrate a sufficient depth into the top of the volcanics unit to allow a full sump for the *platform express* tools to fully log the Golden Beach. In the event the package of reflections interpreted as Golden Beach is erroneous, a provision for calling an earlier TD is provided.

2.2 Well Stratigraphy and Lithology

Table 1 summarises the formations that will be drilled in the Melville-1. Included is an approximate formation depth, a brief description of the lithologies, and drilling hazards seen within the individual formations.

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Formation	Approx. Depth	Lithology	Potential Drilling Hazards
Name	(mRT)		
Gippsland	96 – 1526	Interbedded calcarenite, calcilutite, calcareous	 Lost circulation.
Limestone		claystone and marl.	
Lakes	1526 – 2226	Predominantly calcareous claystone becoming	•
Entrance		slightly silty and sandy at the base.	
Formation			
Latrobe	2226 – 2786	Interbedded sandstones, siltstones, shales and	
Siliciclastics		coals.	
Golden	2786 – 3345	Sandstone and marine shales.	 Slight over pressure.
Beach Sub	-		
Group			
Emperor Sub	3345	Volcanics.	•
Group			
Volcanics			
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TABLE 1. SUMMARY OF FORMATIONS FROM OFFSET WELL DATA

September, 2001



2.3 Formation Properties

Formation Temperature

The expected bottom hole temperature is estimated to be 114 deg. C.

Formation Pressure

Offset well data indicates a normal hydrostatic pressure gradient to approximately 2800 mss, below this depth a slight increase in pressure above normal hydrostatic is noted.

Fracture Gradient

Offset well data indicates a fracture pressure gradient increasing over the depth of the well from approximately 15ppgE to 17ppgE.



3.0 DRILLING OPERATIONS

A detailed drilling operations sequence is contained in the Offshore Drilling Operations Manual. The manual also contains HSE policies, general casing and cementing procedures, well control policy, H₂S policy and equipment checklists.

The Table below gives a summary of the main activities and the associated time.

		Days	Cum Days
1.	Tow rig to location	3.5	3.5
2.	Run anchors, ballast to drilling draft. Prepare to spud	1.5	5.0
3.	Make up bit w/ 914.4mm(36") Hole opener and drill to 146 mRT using seawater with gel sweeps, taking returns to the seabed.	1.0	6.0
4.	Run and cement 762mm(30") conductor with 508mm(20") shoe joint.	1.0	7.0
5.	Drill 444.5mm(17 ½") hole riserless to ~1526 mRT,	2.0	9.0
5.	Run and cement 339.7mm(13 3/8") casing swedged back to 476.3mm(18 3/4") wellhead	2.0	11.0
6.	Install BOP and pressure test	1.5	12.5
7.	Circulate well to mud, drill out shoe, conduct LOT.	1.0	13.5
8.	Drill 311.2mm(12 ¼") hole with LWD to 2786 mRT	4.5	18.0
9.	Run and cement 244.5mm(9 5/8") casing	2.0	20.0
10.	Drill out shoe, conduct LOT	1.0	21.0
11.	Drill 215.9mm(8 ½") hole with LWD to 3345 mRT	3.0	24.0
12.	Run TD wireline logs	1.5	25.5
13.	Abandon well	2.5	28.0
14.	Rig down and pull anchors	1.5	29.5
15.	Total	29.5	

September, 2001



4.0 CASING PROGRAM

Comments / Assumptions		Designed for bending and compressive loading from BOP, Current, and offset loading.	·		
Comme		Designed for bending and compressive loading from Current, and offset loading			
Safety Factors	Design	>10	1.3	1.22 1.50	1.73
Safety	Req.	1.2	1.05	1.2	1.05
	Tension Kg	+000006	700700		733000
Strength	Collapse Kpa		15583		58814
	Burst Kpa		34006		77362
Casing	Weight/Grade/Connections	38mm(1.5") wall x52 top joint, (25.4mm(1") wall intermediate, 508mm(20") 15.9mm(0.625") wall x56 on shoe joint. SF-60 Connectors.	101.2kg/m(68ppf) L80 BTC W/Drilquip HAC Wellhead system 476.25mm(18 ¾") WH with 508mm(20") 25.4mm (1") wall x56 ext.	2786 69.9kg/m (47ppf) L80 BTC 79.6kg/m(53.5ppf) P110 BTC	43.1kg/m(29#) P110 BTC
	Shoe Depth (m RT)	146	1526	2786	3345
	Size	762 & 508mm (30/20")	339.7mm (13 3/8")	244.5mm (9 5/8")	177.8mm (7") Liner
	Hole Size	914.4mm (36")	444.5 & 406.4mm (17.5/16")	311.15mm (12.25")	215.9mm (8.5")

September, 2001

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DRILLING FLUIDS PROGRAM SUMMARY

5.0

	Drilling Fluid Formulations	tba	tba	tba	tba
	Mud Type	Sea water with high viscosity sweeps	Sea water with high viscosity sweeps	KCI/PHPA	КСШРНРА
i i	Mud Properties	tba	tba	tba	tba
	Casing Depth mRT	146	1526	2786	3345
	Hole Depth mSS	146	1526	2786	3345
- 1	 The state of the first of the f				

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6.0 CEMENTING PROGRAM

HOLE	CASING			CEMENT SLURRY	NOTE: CEMENT RECIPES TO BE ISSUED BY PERTH OFFICE	S TO BE ISSUI	ED BY PERTH	OFFICE	NOTES
	SIZE	SETTING	TYPE	REQUIREMENTS	WATE	WATER / DENSITY EXCESS	EXCESS	TOC	
inches (mm)	inches (mm)	DEPTH (m RT)			Liquids (1/kg)	s (sg)		(m RT)	
	30/20		TAIL	tba			200 %		
	(762/508)		· .				excess on gauge hole		
17.1/2 (444.5)	13.3/8	1526	LEAD	tba			50 % excess on gauge hole		
			TAIL	tba			100 % excess on gauge hole		
12 1/4 (311.2)	9 5/8 (244.5)	2786	LEAD	tba			50 % excess on gauge hole		
			TAIL				20 % excess on gauge hole		
8 1/2 (215.9)	7 (177.8) Liner	Will be set only if required for production test.	required for p	production test. Cementing program	Cementing program will be issued if required.				



7.0 BIT / BHA AND HYDRAULICS PROGRAM

BHA#	1	2	3	4
BHA Type	Rotary	Rotary	Rotary	Rotary
Hole Size inch	36	17 1/2	12 1/4	8 1/2
(mm)	(914.4)	(444.5)	(311.2)	(215.9)
Depth (mRT)	146	1526	2786	3345
Flowrate gpm	500/1000	1000	900	500
(l/m)	(2000/4000)	(4000)	(3600)	(2000)
Bit Type	1-1-1 mill tooth,	Milled tooth	PDC and	PDC and possible
	+ hole opener		possible TCI	TCI
BHA	Bit	Bit	Bit	Bit
Components:	Hole Opener	Bit Sub with float	NBRR	NBRR
	Bit Sub with float	MWD	LWD	LWD
	MWD	6 x DC	Sleeve Stab	Sleeve Stab
	6 x DC	XO	MWD	MWD
	xo	4 x DC	NM Stab	NM Stab
	6 x DC	Jar	2 x NMDC	2 x NMDC
	xo	2 x DC	RR	10 x DC
	12 x HWDP	XO	9 x DC	Jar
	(Drill with	12 x HWDP	Jar	4 x DC
	HWDP)		3 x DC	12 x HWDP
	·		Accelerator	
			1x DC	
			xo	·
			12 x HWDP	

Note:

- 1. Motors may be used if deemed appropriate. Positive valve floats will be included in all BHA's.
- 2. Final bit selection will be made based on available bits and drilling conditions encountered.

8.0 DIRECTIONAL/ SURVEYING

36 inch (914.4mm) Hole Section

The MWD tool will be run.

Inclination surveys will be recorded every stand drilled and at section TD.

17 1/2 inch (444.5mm) Hole Section

The MWD tool will be run in 17 ½" (444.5mm) hole section.

Inclination surveys will be recorded every stand drilled and at section TD.

12 1/4 inch (311.2mm) Hole Section

The LWD tool plus a NMDC will be run.

Inclination surveys will be recorded every stand drilled and at section TD.

8 1/2 inch (215.9mm) Hole Section

The LWD tool plus a NMDC will be run.

Inclination surveys will be recorded every stand drilled and at section TD.

No other surveys are planned.



Definitive Survey

The inclination surveys in the 36" (914.4mm) hole will be assigned the same azimuth as the first magnetic survey below the conductor casing shoe. The remaining surveys will be tied together to compile the definitive survey.

All surveys will be referenced to Grid North.

9.0 DRILLING HAZARDS

Potential drilling hazards are detailed in Section 2.2 against the relevant geological section. A discussion of certain key issues is given below.

9.1 Shallow Gas

No instances of shallow gas have occurred in offset wells.

A site survey has not been carried out over the Melville-1 location however seismic data recorded over the area shows no mappable closure, further indicating no shallow gas to be present.

9.2 H₂S, CO₂

No indications of H₂S or CO₂ have been seen in offset wells during drilling.

[note] The Hydrogen Sulphide policy for this operation (ref. the Offshore Drilling Operations Manual) states that if a H_2S level recorded by the mud logger's gas sensor or other detectors reaches 10 ppm, the well will be shut in and the Drilling Superintendent advised. Operations will be suspended until adequate H_2S procedures can be implemented.

9.3 Lost Circulation

Partial lost circulation is expected in the upper section of the Gippsland Limestone. As this section of the well is to be drilled riserless no attempt to cure the lost circulation should be undertaken.

Lost circulation is not anticipated in any other sections of the well, however as a precautionary measure LCM will be available at the rig site.

10.0 WELL CONTROL

10.1 Well Control Procedures Summary

Well control policies and procedures are contained in the Offshore Drilling Operations Manual. The following policy is extracted from that manual:

Well Control Procedures:

The Company sets the well control policy and agrees with the Drilling Contractor on well control procedures. The Drilling Contractor's Offshore Installation Manager is responsible for overall safety of operations on the rig and will operate in accordance with the agreed Well Control Procedures. The Drilling Contractor's Well Control Procedures (including kill sheets) will be used, reducing the likelihood of confusion on site.



Shut In Procedures:

Apart from specific surface hole / shallow gas situations, all shut-ins will be "hard", meaning the annular preventer will be shut in on spaced-out pipe against a closed choke while a drill pipe shut-off valve will be installed (if tripping) and closed.

Kick Circulation Procedure:

Apart from specific surface hole / shallow gas situations, a Constant Bottom Hole Pressure method of well control will be used for controlling kicks. The normal Constant Bottom Hole Pressure methods of well control are: the Wait and Weight, Drillers and Volumetric methods.

Flow Checks:

Check for flow on all drilling breaks below a depth to be designated by the Drilling Supervisor. The driller has the responsibility to consider any unexpected change in drilling rate to be a drilling break. In addition, the Drilling Supervisor will define a "drilling break" for each section of hole, dependent on the geology of the section. If a flow check is positive, shut the well in and commence well control procedures.

10.2 Equipment

Refer to Ocean Bounty Vessel Safety Case and Rig's General Equipment List for equipment details. The BOP stack is as described in the table below. There is no annular preventer in the (lower) BOP stack. The bottom connector on the BOP stack is a Cameron collet for connection to a Cameron hub profile on the wellhead. The wellhead system is a 18 ¾" (476.25mm) 10,000 psi (68,950kPa) Drilquip HAC system.

The Lower Marine Riser Package connects to the stack using another Cameron collet connector. The LMRP includes the two Shaffer annular preventers.

BOP COMPONENT	PRESSURE RATING psi (kPa)
18 3/4" (476.25mm) SHAFFER ANNULAR	5,000 (34,475)
18 ¾" (476.25mm) SHAFFER ANNULAR	5,000 (34,475)
18 3/4" (476.25mm) CAMERON COLLET CONNECTOR	10,000 (68,950)
BLIND / SHEAR RAMS	10,000 (68,950)
5" (127mm) PIPE RAMS	10,000 (68,950)
VARIABLE PIPE RAMS	10,000 (68,950)
range 3 ½" (88.9) – 7 5/8" (193.7mm)	
VARIABLE PIPE RAMS	10,000 (68,950)
range 3 ½" (88.9) – 7 5/8" (193.7mm)	
18 3/4" (476.25mm) CAMERON COLLET CONNECTOR	10,000 (68,950)



10.3 Pressure Testing

Casing / Equipment Tests

Custing / Equi						
	Plug Bump & test casing after displace cement	BOP Annular Preventer	BOP Pipe Rams & Valves	Choke Manifold	Standpipe Manifold & IBOPs	Shear rams
	psi (kPa)	psi (kPa)	psi (kPa)	psi (kPa)	psi (kPa)	psi (kPa)
		3,500	10,000	10,000	5,000	10,000
Stump Test	N/A	(24,133)	(68,950)	(68,950)	(34,475)	(68,950)
After 13 3/8"	4,000	Function	Function			Function
(339.7 mm)	(27,580)	test +	test +	Note 5	Note 5	test only
casing w/well		Note 4	Note 4			
head & stack						
After 9 5/8"	5,500	3,500	5,500	5,500	5,000	Function
(244.5 mm)	(37,923)	(24,133)	(37,923)	(37,923)	(34,475)	test only
casing						
After 7"	6,500	3,500	6,500	6,500	5,000	Function
(177.8mm)	(44,818)	(24,133)	(44,818)	(44,818)	(34,475)	test only
liner						

NOTES:

- 1. All tests to include a 200 psi (1,400 kPa) low pressure test prior to testing to the values shown above.
- 2. Test pressures will be held for 5 minutes for low/high pressure tests if straight line. Otherwise test must be held for 10 minutes with less than 5% bleed-off in pressure.
- 3. Minimum BOP test frequency will be every two weeks unless approved by the Drilling Superintendent.
- 4. Function test all rams / annulars / valves on both pods. Pressure test one ram only against plug to 5,000 psi (34,475 kPa) to confirm BOP connector integrity. Pressure test one annular to 3,500 psi (24,133 kPa) against plug to confirm LRMP connector integrity.
- 5. Test unless done during stump test.
- 6. WOC approximately 30 minutes prior to pressure testing casing to ensure against damaging float equipment while still minimising the chances of a micro-annulus

Formation Tests

A leak off test will be required after drilling 3m of new hole out of the 13 3/8" (339.7mm) and 9 5/8" (244.5mm) shoes (after displacement to new mud).

Casing Shoe Depth	Anticipated Leak-off	Do Not Exceed:
1,526 mRT	15 ppgE	17 ppgE
2,786 mRT	17 ppgE	19 ppgE



11.0 FORMATION EVALUATION PROGRAM

11.1 Mud Logging

36" (914.4mm) hole:

Returns to seabed. No mudlog sampling requirements; drilling support data only.

17 ½" (444.5mm) hole:

Returns to seabed. No mudlog sampling requirements; drilling support data only.

12 ¼" (311.2mm) hole:

Returns to rig. Drilling support data plus cuttings samples every 5 to 10m for the entire interval.

8 ½" (215.9mm) hole:

Returns to rig. Drilling support data plus cuttings samples every 5m for entire interval.

Sample Frequency:

- First returns to 2500 mRT, cuttings samples every 10 metres; from 2500 mRT to TD, cuttings samples every 5 metres. In the event that rapid penetration renders 5 metre samples impractical, cuttings sampling may be done every 10 metres (at discretion of Wellsite Geologist).
- Bulk washed and dried samples (for possible additional biostratigraphy etc) every 25m throughout sampled section of well.
- Canned unwashed samples for geochemistry to be taken at 50m intervals from 2500 to TD.

Sample sizes and distribution:

Sample Int.	Type	Amount	Purpose
10 or 5m	Wet/unwashed	200g (from 2000m)	"Hot" sample
10 or 5m	Washed and dried	200g	VNRE
		200g	AGSO
		50g x2	Bass Strait Oil Company
		50g	Inpex
		Samplex tray (from 2500m)	Bass Strait Oil Company
25m	Washed and dried	200g	Paleontology
50m	Unwashed, canned	500g (from 2500m)	geochemistry

- 100g and 50g washed and dried cuttings samples to be placed in sealable paper bags. Washed and dried 200g cuttings samples to be placed in durable, mildew proof cotton bags. All bags to be clearly labelled with well name and sample depth.
- The "Hot" sample set will be despatched on the next available helicopter to be used for urgent biostratigraphic determination etc. through the objective sequences
- Labelling of sample bags must be done using a waterproof marker.
- Maximum drying temperature for dried samples to be 70° C. Note: do not dry samples in microwave.

Digital copies of mudlog (Formation Evaluation Log), Formation Pressure Plot and Drilling Parameter Log.

Digital copies of the logs will be sent to Operations Geologist, on a daily basis (see section 13.2).



11.2 Wireline/LWD Logging

36" (914.4mm) hole section

No open hole logs are planned in this hole section. GR through casing may be obtained as part of logging a later section.

17 1/2" (444.5mm) hole section

No open hole wireline logging data or LWD data will be acquired in this hole section. GR through casing may be obtained as part of logging a later section.

12 1/4" (311.2mm) hole section

Dry hole section – if no zones of interest are encountered in this section LWD recorded GR and resistivity will be the only log data recorded.

Zones of interest section – if any zones of interest are encountered whilst drilling this section the following logs may be run;

- 1. Platform Express HALS-MCFL-TLD-CNL-GR
- 2. MDT + fluid sampling
- 3. Side wall cores
- 4. FMI
- MSCT
- 6. VSP

8 1/2" (215.9mm) hole section

Dry hole section – if no zones of interest are encountered in this section the following logs will be run;

- 1. GR and resistivity (LWD)
- 2. Platform Express HALS-MCFL-TLD-CNL-GR with DSI (or supercombo equivalent if temperatures dictate)
- 3. Side wall cores
- 4. Check shot survey

Zones of interest section – if any zones of interest are encountered whilst drilling this section the following logs may be run;

- 1. MDT + fluid sampling
- 2. FMI
- MSCT
- 4. VSP (replacing check shot survey)

11.3 Coring

Core may be taken in the Lower Latrobe or Golden Beach depending upon significant hydrocarbon shows. Coring equipment will be available on stand by at the rig site. Coring depths will be advised by Operations / Well site Geologists.



12.0 WELL TESTING

The decision whether to production test the well will be made dependant on the outcome of formation evaluation. A separate well test program will be issued.

13.0 REPORTING

13.1 Daily Drilling Reports

Morning Report

The Daily Drilling Report shall cover previous midnight to midnight activities, including an update to 0900 hours (EST/ESST). The report shall utilise the IDS Drilling Data Reporting System which will use the LAN for data transfer. Entry of the report will be in the following major units:

Parameter	Unit
Depth	Meters (m)
Flowrate	Gallons per minute (gpm)
Fluid Density	Specific Gravity (sg)
Temperature	Degrees Celsius (°C)
Torque	Foot-pounds (ft-lbs)
Diameter	Inches (")
Pressure	Pounds per sq.in (psi)
Weight	Pounds force (lbs)

Once the morning report has been checked for accuracy an IDS Management update will either be emailed or faxed to Bass Strait Oil Company and the VNRE. The Daily Report will be issued to the VNRE in SI Units and to all other parties in the above listed units. The conversion of units will be undertaken in Perth Office using the shore based IDS Drilling Data package.

Afternoon Report

IDS Afternoon Report

- Create an afternoon update report on IDS to 1800 hour (EST/ESST) time.
- Requires major parameters to be updated.
- Send via network to RBT Perth as soon as practical after 1800 hours (EST/ESST).

13.2 Geological Reports / Mud Log / LWD / Wireline data

Daily Geological reports will be prepared by the Wellsite Geologists and forwarded by email to the Operations Geologist and the RBT Perth Office (two reporting periods per day; reporting times to be advised). Daily digital files of mudlogging and LWD data (pdf, pds and ASCII as appropriate) will be emailed by the Wellsite Geologists to the Operations Geologist, Inpex and the RBT office Perth each morning (time to be advised).

ASCII and pds files of hydrocarbon evaluation type wireline logs should be forwarded to the Operations Geologist and the RBT office in Perth as soon as practical after the relevant logging run.



13.3 Personnel On Board

A register of Personnel On Board the drilling rig including name and employer will be maintained and a daily statement will be transmitted to both the Drilling Superintendent and Materials and Logistics Superintendent via fax or email. The statement shall be transmitted daily at 1800 hrs (EST/ESST) or after the departure of the last helicopter if later.

14.0 **APPENDICES**

14.1 **Key Contacts**

Bass Strait Oil Company

Melbourne office Address: Level 25, 500 Collins Street

Melbourne, VIC 3000 Phone: (03) 9614 0426 Fax: (03) 9629 6278

Chief Operations Geologist – Ian Reid mobile: 0417 391 789 Commercial Manager - Andrew Adams mobile: 0408 056 130

RBT Petroleum Associates Pty Ltd

Perth Office Address:

Level 15, QV1, 250 St Georges Terrace

Perth, WA 6000 Phone: (08) 9321 7400 Fax: (08) 9481 6977

Director - Drilling Operations - John Bell mobile 0419 314 304 mobile Drilling Superintendent – Mike Lanzer tba Senior Drilling Engineer - Brian Searles mobile 0418 317 992 mobile 0419 957 021

Materials Superintendent – Sandra Dedman

RBT Melbourne Office Address: PO Box 230, Collins St West, Melbourne, VIC 8007

Phone: (03) 9629 7400 Fax: (03) 9629 6977

Minerals and Petroleum Victoria, Department of Natural Resources and Environment

7th Floor, 250 Victoria Parade, East Melbourne VIC 3002 Phone: (03) 9412 5084 (03) 9412 5156

Manager Petroleum Resources – Kourosh Mehin

Diamond Offshore General Company (DOGC)

Level 9, 225 St. George's Terrace

Perth, WA. 6000 Phone: (08) 9481 8333 (08) 9481 8103

Rig Manager – Tom O'Niell

mobile: tba

BASS STRAIT

Main Service Contractors:

Muth Del Fice Community.	vontructors.				
Service	Company	Address	Telephone	Fax	Contact
Bits					
Casing					
Casing Running					
Cementing					
Centrifuge					
Communications					
Communications - Computers,					
Printers, fax machines, etc.					
Communications - Drilling & Reporting Software					
Communications – Offshore					
act up activice					
Communications – Onshore Liaison (Perth)					
Coring					
Downhole Motors					
Drilling Fluids and Mud					
Drilling Unit					
Electric Logging					
Fishing and Milling					
Fuel, Diesel					
Geological - Core Analysis					
Geological - Fluid Analysis					
Geological - Geochemistry					
Geological - Palaeontology					
Geological - Palynology					
Geological - Wellsite					
Geologists					
Helicopter					
Liner Hanger					
Mudlogging					
MWD/LWD/Directional					
Services/Motors/ Surveying					
P&A					
Rental Tools					
Positioning QC					
Rig Positioning					***
Road Transportation					
ROV					
SBM Vessel Cleanup					
Supply Base					

September, 2001

Supply Vessels			
Surveying – Anderdrift			
Weather Services			
Well Test			
Wellhead Equipment			
Wellsite Supervision			

Offset Well Summary Table 14.2

See attached for the most relevant offset wells.