



**MEO Australia Limited**  
ABN 43 066 447 952

Level 17  
500 Collins Street  
Melbourne Victoria 3000 Australia

Tel: (+61 3) 9614 0430  
Fax: (+61 3) 9614 0660  
Email: [admin@meoaustralia.com.au](mailto:admin@meoaustralia.com.au)  
Website: [www.meoaustralia.com.au](http://www.meoaustralia.com.au)

## **ASX AND MEDIA RELEASE**

### **HERON-2 WELL WEEKLY DRILLING REPORT – No 13**

#### **Key Points:**

- **Preparing to commence Epenarra production test**

MELBOURNE, AUSTRALIA (January 18, 2007) -- MEO Australia Limited (ASX: MEO) submits this drilling report for the period ending 1000 hours, January 18, 2007. The Heron-2 well was spudded at 2230 hours (ACST) on October 12, 2007 in Exploration Permit, NT/P68.

The rig is preparing to commence the Epenarra Darwin formation production test. The 9<sup>5</sup>/<sub>8</sub> inch production packer seal assembly has been set at 3075m just above facies C and the rig is currently making up the TCP (casing perforating) guns and running into the well with the test string. It is expected that the 9<sup>5</sup>/<sub>8</sub> inch casing will be perforated tomorrow morning and production testing of the facies C gas charged zones of the Epenarra structure will be undertaken.

Heron-2 is being drilled by Seadrill's West Atlas jack-up rig contracted to MEO for two firm wells. The Heron-2 well is designed as a vertical well to penetrate and production test the Epenarra Darwin Formation and the deeper Elang/Plover Formation of the Heron North structure.

The Heron-1 well drilled by ARCO in 1972 intersected a 52m gas bearing column in the Darwin Formation (a fractured carbonate reservoir) within the 1,200 square km mapped closure of the large Epenarra structure. Heron-1 also reached a gas charged zone in the deeper underlying Elang/Plover horizon, which is a secondary objective for the Heron-2 well.

The participants in the well and permit are:

TSP Arafura Petroleum Pty Ltd (MEO subsidiary)	45%
Oz-Exoil Pty Ltd (MEO subsidiary)	45%
Petrofac Energy Developments Oceania Ltd (Petrofac Limited subsidiary)	10%

**C.R. Hart**, Managing Director  
MEO Australia Limited  
NT/P68 Operator

For personal use only

## HERON-2 WELL

<b>DETAILS</b>
----------------

<b>Licence:</b>	<b>NT/P68</b>
<b>Operator:</b>	<b>MEO Australia Limited</b>
<b>Rig:</b>	<b>Seadrill West Atlas jack-up</b>
<b>Surface location:</b>	<b>Latitude: 10 deg 25 min 12.443 sec</b> <b>Longitude: 128 deg 56 min 20.155 sec</b> <b>Datum: GDA94</b>
<b>Seawater Depth:</b>	<b>35 m LAT</b>
<b>Spud Date:</b>	<b>2200 hours (ACST), October 12, 2007</b>
<b>Target Strata:</b>	<b>Primary: Darwin Formation; Facies C</b> <b>Secondary: Elang/Plover Formation</b>
<b>Total Depth:</b>	<b>4334 metres (MDRT)</b> (MD - measured depth below the rig's rotary table - RT)
<b>Primary Target Depth:</b>	<b>Top Darwin Fm 3124 metres (MDRT)</b>
<b>Secondary Target Depth:</b>	<b>Top Elang/Plover Fm 3944 metres (MDRT)</b>
<b>Designated Authority:</b>	<b>Northern Territory Department of Primary Industry, Fisheries and Mines</b>
<b>Reservoir Objectives:</b>	<p><b>Darwin Formation: Determine the development of intergranular porosity; the presence a fracture system; the effectiveness of the fracture system in accessing the porosity, delivering hydrocarbons to the well bore on production; and the liquids content of the gas (condensate &amp; LPG) and the levels of CO<sub>2</sub>, H<sub>2</sub>S and mercury.</b></p> <p><b>Elang/Plover Formation: Determine the presence or otherwise of hydrocarbons (gas/condensate); reservoir properties including intergranular porosity and fracturing; the effectiveness of the fracture system to access porosity and deliver hydrocarbons to the well bore on production; and the level of CO<sub>2</sub> and H<sub>2</sub>S in the gas.</b></p>
<b>Production Objectives:</b>	<b>In a success case, separate cased hole tests are planned for the Elang/Plover and Darwin Formations.</b>
<b>Well Design:</b>	<b>Heron-2 is a vertical well. The well design is to drill a 36" hole to 107m and set a 30" conductor. A 20" surface</b>

casing will be set at approximately 1100m in a 26" hole drilled to 1110m. A 13<sup>3</sup>/<sub>8</sub>" intermediate casing will be set in a 17<sup>1</sup>/<sub>2</sub>" hole drilled to 2210m. Drill a 12 <sup>1</sup>/<sub>4</sub>" vertical hole down to just below the Darwin Formation (3344m) and log and case. After setting 9 5/8" casing, drill 8 <sup>1</sup>/<sub>2</sub>" hole to TD in the Plover Formation and log. Depending on success both Plover and Darwin Formations will be tested separately.

Heron-2 is being planned as a high pressure/high temperature (HPHT) well, based on the conditions encountered at the nearby offset well, Heron-1. The HPHT criteria being:

- Maximum possible surface pressures exceed 10,000 psi;
- Maximum anticipated bottom-hole temperatures exceeds 150°C

## MEO Pre-Drill Estimates

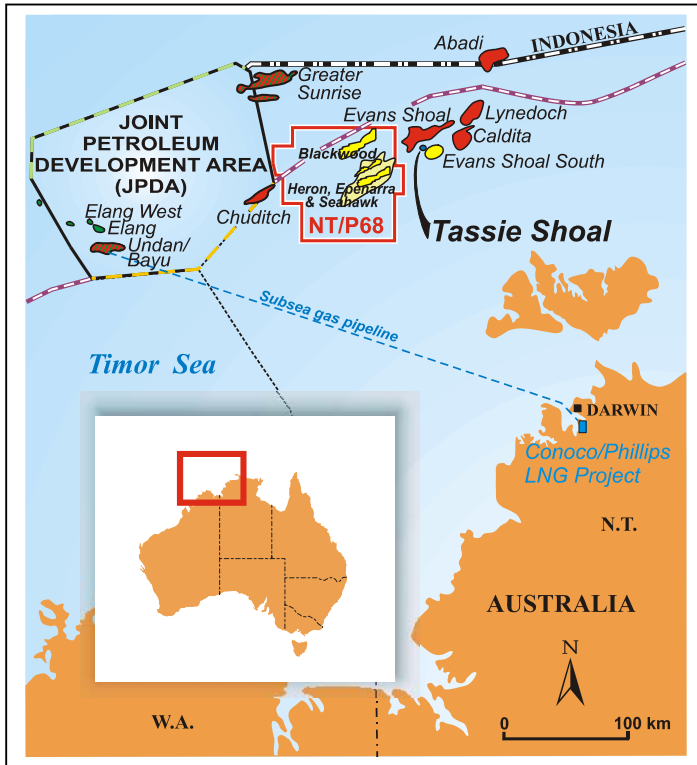
Target Reservoir	Gas-in-Place Mean Contingent Resource <sup>1</sup>	Recoverable Mean Gas Contingent Resource <sup>1</sup>
Epenarra: Darwin Formation facies C	5620 Bcf	3200 Bcf
Heron North: Elang/Plover Formation	3790 Bcf	2650 Bcf
Heron South: Elang/Plover Formation	1750 Bcf	1225 Bcf

Note 1: Contingent Resource are those resources which relate to quantities of petroleum (oil or gas) which are estimated, on a given date, to be potentially recoverable from a known accumulation but which are not currently considered to be commercially recoverable. Contingent Resources may include, for example, accumulations for which there is currently no viable market, or where commercial recovery is dependent on the development of new technology, or where evaluation of the accumulation is still at an early stage.

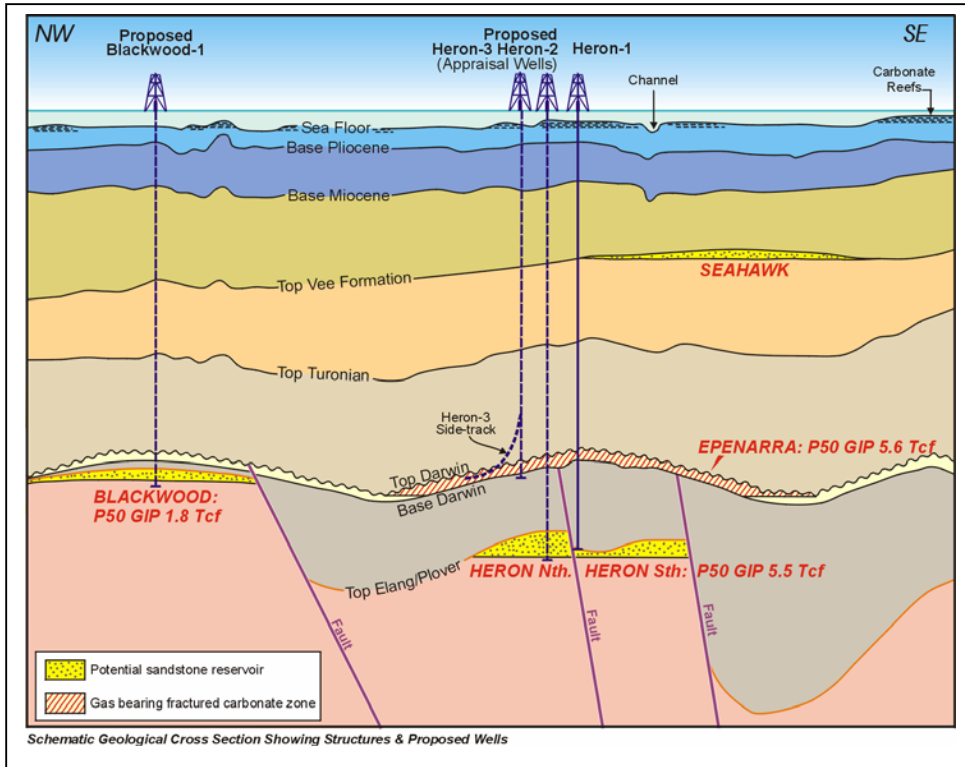
## Summary of potential

The joint venture has conducted a series of geoscientific studies to better define the nature of the potential gas accumulation in Epenarra and the probability for commercial deliverability. These included charge and migration modelling, regional tectonic stress regimes and fracture modelling, well-bore stability and hydrocarbon inclusion testing. CSIRO Petroleum was engaged to conduct hydrocarbon inclusion and Raman Laser microprobe testing on cutting and core samples obtained through the gas charged zones within Facies C of the Darwin Formation identified in the Heron-1 well. The CSIRO study confirmed that the hydrocarbon inventory in Epenarra would most likely have a high condensate gas ratio (CGR) (~100bbls/MMscf) and contain low levels of CO<sub>2</sub> (1% to 3%). Based on the Contingent Resource estimate for gas in Epenarra above, the recoverable mean Contingent Resource for condensate based on a CGR of 80 bbls/MMscf is estimated at 234 MMbbls.

### NT/P68 Permit Location

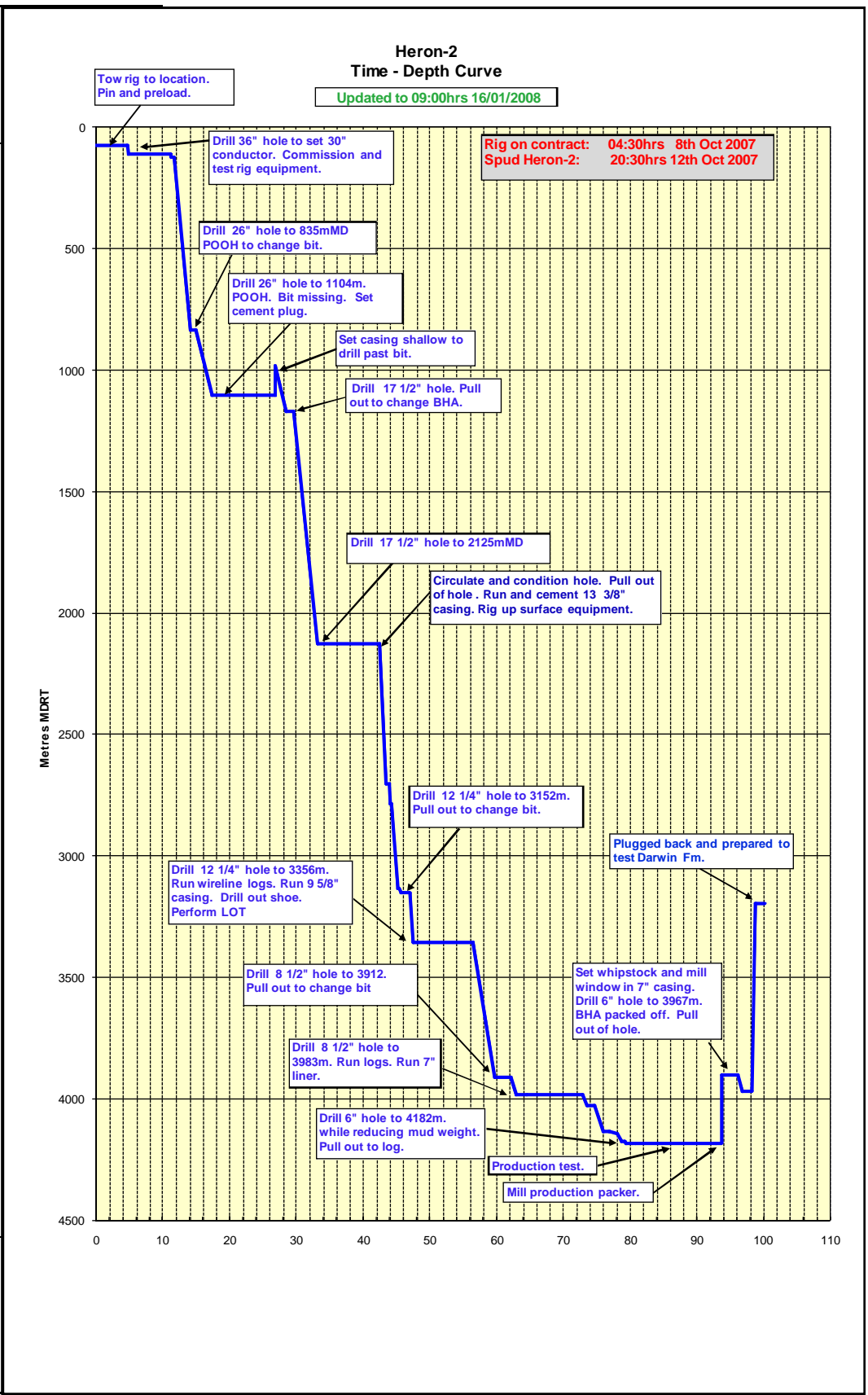


### Schematic showing target horizons and Heron-2, Heron-3 and Blackwood-1 well locations



For personal use only

<b>WELL NAME: Heron-2</b>	
WELL TYPE: Exploration	
WELL AREA: NT/P68, Bonaparte Basin	
RIG: Seadrill, West Atlas	
MD (RT) m	STRATIGRAPHY TOPS MDRT
73m	
250	
500	
579m	
750	
1000	
1250	
1462m	
1500	
1750	
2000	
2081m	
2250	
2500	
2750	
3000	
3124m	
3250	3244m
3500	3352m
3750	
4000	3944m 3954m
4250	
4500	TD 4334m Success



For personal use only