

IMPERIAL OIL & GAS

DAILY DRILLING REPORT

Level 7, 151 Macquary St
Sydney NSW 2000, Australia

Satphone Drillstralis: 0147 141 886
Satphone IOG: 0420 369 871
Geo: 040 6693 779

WELL	BCF SC 02	Permit	EP184	
Report number	1	Rig	Hydco1200G	
Report for	27/07/2014	Spud Date	27/07/2014	
Date report submitted	28/07/2014	Prognosed TD	100 m ± 20	
Weather	sunny	RT - GL	0.88 m	
Days from Spud	0	GL - Elevation	25 m	

HSE	No Incidents, Accidents or Spills.
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Drilling

Last casing set @ [m]	1.5	Size [inch]	8 PVC
Starting depth (6 am) [m]	0		
Finishing depth (6 pm) [m]	53.8		
Days progress [m]	53.8		

Summary of operations carried out	Mobilisation to site, drill top hole to 53.8 m and run 4-1/2" HWT casing.
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Operations Break Down	Time	Duration [h:min]	Depth [m]	Operation
	6:00	0:10	0	Prestart meeting
	6:10	1:20	0	Wait on transport to site
	7:30	3:00	0	Rig move to site
	10:30	0:30	0	Set up rig
	11:00	5:00	53.8	Drill to 53.8m
	16:00	0:30	53.8	POOH
	16:30	1:00	53.8	Trip in HWT, ream from 12m
	17:30	0:30	53.8	Travel to camp

Summary of the Next 24hrs	Core to TD. Log well and cement to surface.
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Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Dull red to yellow highly weathered Siltstone with interbedded shales and abundant chert, quartz and ironstaining to top of unit with minor tuff bands to bottom of unit.	0	45	N/A	N/A	Nagi Formation?
Red to cream coloured banded highly weathered shales with minor siltstone and mudstone sections.	45	53.8	N/A	N/A	Nagi Formation?

Estimated daily and cumulative well costs		Surveys			
Yesterday	Daily Costs	Cumulated	Date	Depth [m]	Deviation [°]
\$	\$	\$			

Pre-job safety meeting record			Personell on drillsite	
Date	Place	# of ppl	Drill crew - DRILLSTRALIS	
27/07/2014	Roper Bar	16	Logger - ACS	3
			Geologist	1
			Cultural monitor	1

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Level 7, 151 Macquary St
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Satphone Drillstralis: 0147 141 886
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Geo: 040 6693 779

WELL	BCF SC 02	Permit	EP184
Report number	2	Rig	Hydco1200G
Report for	28/07/2014	Spud Date	27/07/2014
Date report submitted	29/07/2014	Prognosed TD	100 m ± 20
Weather	sunny	RT - GL	0.88 m
Days from Spud	1	GL - Elevation	25 m



HSE	No Incidents, Accidents or Spills.
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Drilling

Last casing set @ [m]	53.8	Size [inch]	4-1/2 HWT
Starting depth (6 am) [m]	53.8		
Finishing depth (6 pm) [m]	65.46		
Days progress [m]	11.66		

Summary of operations carried out
HQ core from 53.8m to 65.46

Operations Break Down	Time	Duration [h:min]	Depth [m]	Operation
	6:00	0:10	53.8	Prestart meeting
	6:10	1:50	53.8	Travel too site
	8:00	1:00	53.8	Switch to diamond
	9:00	8:00	65.46	HQ core to 65.46m
	17:00	0:30	65.46	Trip out HQ
	17:30	0:30	65.46	Travel back to camp

Summary of the Next 24hrs
Very broken formation. Redrill surface hole and reset casing to core depth of 65.46m at drillers cost. Core recovery less than 40% of interval cored.

Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Red to cream coloured banded highly weathered sandstone with shale sections with banded iron staining. High core loss.	53.8	65.46	N/A	N/A	Nagi Formation?

Estimated daily and cumulative well costs

Yesterday	\$	33,400.00	Date	Depth [m]	Deviation [°]
Daily Costs	\$	20,500.00			
Cumulated	\$	53,900.00			

Pre-job safety meeting record

Date	Place	# of ppl	Personell on drillsite	
28/07/2014	Roper Bar	16	Drill crew - DRILLSTRALIS	3
			Logger - ACS	1
			Geologist	1
			Cultural monitor	2

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WELL	BCF SC 02	Permit	EP184	
Report number	3	Rig	Hydco1200G	
Report for	29/07/2014	Spud Date	27/07/2014	
Date report submitted	30/07/2014	Prognosed TD	100 m ± 20	
Weather	sunny	RT - GL	0.88 m	
Days from Spud	2	GL - Elevation	25 m	

HSE	No Incidents, Accidents or Spills.
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Drilling

Last casing set @ [m]	53.8	Size [inch]	4-1/2 HWT
Starting depth (6 am) [m]	53.8		
Finishing depth (6 pm) [m]	65.46		
Days progress [m]	11.66		

Summary of operations carried out	POOH, POOH HWT casing, change over to hamer, ream out hole to 15m, reset PVC conductor. Day at drillers cost.
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Operations Break Down	Time	Duration [h:min]	Depth [m]	Operation
	6:00	0:10	53.8	Prestart meeting
	6:10	1:20	53.8	Travel to site
	7:30	3:00	53.8	Switch to diamond
	10:30	0:30	65.46	HQ core to 65.46m
	11:00	6:30	65.46	Trip out HQ
	17:30	0:30	65.46	Travel back to camp

Summary of the Next 24hrs	Hammer to 65.46m, approx and reset HWT casing, restart coring.
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Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Red to cream coloured banded highly weathered sandstone with shale sections with banded iron staining. High core loss.	53.8	65.46	N/A	N/A	Nagi Formation?

Estimated daily and cumulative well costs

Estimated daily and cumulative well costs		Surveys			
Yesterday	\$	75,400.00	Date	Depth [m]	Deviation [°]
Daily Costs	\$	16,700.00	29/07/2014	65.46	
Cumulated	\$	92,100.00			

Pre-job safety meeting record

Pre-job safety meeting record			Personell on drillsite	
Date	Place	# of ppl	Role	Count
29/07/2014	Roper Bar	16	Drill crew - DRILLSTRALIS	3
			Logger - ACS	1
			Geologist	1
			Cultural monitor	2

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Satphone Drillstralis: 0147 141 886
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WELL	BCF SC 02	Permit	EP184
Report number	4	Rig	Hydco1200G
Report for	30/07/2014	Spud Date	27/07/2014
Date report submitted	31/07/2014	Prognosed TD	100 m ± 20
Weather	sunny	RT - GL	0.88 m
Days from Spud	3	GL - Elevation	25 m



HSE	No Incidents, Accidents or Spills.
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Drilling

Last casing set @ [m]	53.80	Size [inch]	4-1/2 HWT
Starting depth (6 am) [m]	65.46		
Finishing depth (6 pm) [m]	102.00		
Days progress [m]	36.54		

Summary of operations carried out	Drill to 102m, POOH
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Operations Break Down	Time	Duration [h:min]	Depth [m]	Operation
	6:00	0:10	65.46	Prestart meeting.
	6:10	1:20	65.46	Travel to site. Waiting for fog to lift.
	7:30	4:30	65.46	Ream to 65m
	12:00	5:00	65.46	HQ core to 65.46m
	17:00	0:30	102.00	Drill to 102m. POOH
	17:30	0:30	102.00	Return to camp

Summary of the Next 24hrs	Wiper trip, wireline logging, cement hole
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Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Dull red to yellow highly weathered siltstone with interbedded shales and abundant chert, quartz and ironstaining to top of unit with minor tuff bands to bottom of unit.	0	45	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered shales with minor siltstone and mudstone sections.	45	53.8	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered sandstone with shale sections with banded iron staining. High core loss.	53.8	65.46	N/A	N/A	St Vidgeon Formation
Sandstone with minor interbanded shales, quartzose in part with minor tuff bands and sandy at base of unit.	65.46	102	N/A	N/A	?

Estimated daily and cumulative well costs

	Estimated daily and cumulative well costs	Surveys		
Yesterday	\$ 92,000.00	Date	Depth [m]	Deviation [°]
Daily Costs	\$ 20,200.00			
Cumulated	\$ 112,200.00			

Pre-job safety meeting record

Date	Place	# of ppl	Personell on drillsite	
30/07/2014	Roper Bar	15	Drill crew - DRILLSTRALIS	3
			Logger - ACS	1
			Geologist	1
			Cultural monitor	2

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WELL	BCF SC 02	Permit	EP184	
Report number	5	Rig	Hydco1200G	
Report for	31/07/2014	Spud Date	27/07/2014	
Date report submitted	1/08/2014	Prognosed TD	100 m ± 20	
Weather	sunny	RT - GL	0.88 m	
Days from Spud	5	GL - Elevation	29 m	

HSE	No Incidents .			
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Drilling

Last casing set @ [m]	50.67	Size [inch]	4-1/2 HWT
Starting depth (6 am) [m]	102		
Finishing depth (6 pm) [m]	102		
Days progress [m]	0 m		

Summary of operations carried out
flush hole, wiper trip, set up for wireline logging, geophysically log hole

Operations Break Down	Time	Duration [h:min]	Depth [m]	Operation
		6:00		
	6:10	0:10	102	Prestart meeting
	7:00	0:50	102	travel to site
	9:30	2:30	102	wiper run 6 1/4"
	10:00	0:30	102	logging dummy to 21.5m; hole blocked - rig on standby
	11:00	1:00	102	change over rod trailer to truck - break down drillers cost
	13:30	2:30	102	RIH wiper trip to clear blockage
	14:00	0:30	102	RIH with HQ pipe to TD
	15:00	1:00	102	run in hole & flush & trip out
	16:30	1:30	102	wireline log through pipe
	17:00	0:30	102	trip out
	17:30	0:30	102	travel to camp

Summary of the Next 24hrs
PnA hole & set marker post

Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Dull red to yellow highly weathered siltstone with interbedded shales and abundant chert, quartz and ironstaining to top of unit with minor tuff bands to bottom of unit	0	45	N/A	N/A	Nagi
Red to cream coloured banded highly weathered shales with minor siltstone and mudstone sections.	45	53.8	N/A	N/A	Nagi
Red to cream coloured banded highly weathered sandstone with shale sections with banded iron staining. High core loss	53.8	65.46	N/A	N/A	St Vidgeon
sandstone with minor interbanded shales, quartzose in part with minor tuff bands and sandy at base of unit	65.46	102	N/A	N/A	?

Yesterday	\$	94,600.00	Date	Depth [m]	Deviation [°]
Daily Costs	\$	20,200.00	30/07/2014	102.00	
Cumulated	\$	114,800.00			

Date	Place	# of ppl	Drill crew - DRILLSTRALIS	
31/07/2014	Roper Bar	15	Logger - ACS	1
			Geologist	1
			Cultural monitor	2

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Satphone Drillstralis: 0147 141 886

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WELL	BCF SC 02	Permit	EP184
Report number	6	Rig	Hydco1200G
Report for	1/08/2014	Spud Date	27/07/2014
Date report submitted	2/08/2014	Prognosed TD	100 m ± 20
Weather	sunny	RT - GL	0.88 m
Days from Spud	5	GL - Elevation	25 m



HSE	No Incidents, Accidents or Spills.
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Drilling

Last casing set @ [m]	53.80	Size [inch]	4-1/2 HWT
Starting depth (6 am) [m]	102		
Finishing depth (6 pm) [m]	102		
Days progress [m]	0		

Summary of operations carried out	Clean up site, cement to surface, move rig off site.
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Operations Break Down	Time	Duration [h:min]	Depth [m]	Operation
	6:00	0:10	65.46	Prestart meeting.
	6:10	0:50	65.46	Travel to site.
	7:00	1:00	65.46	Tidy up site.
	8:00	6:00	65.46	Cement to surface
	14:00	2:00	102.00	Move rig to Tomato Island
16:00	0:30	102.00	Return to camp	

Summary of the Next 24hrs	Install signage, take pictures, start rehab
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Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Dull red to yellow highly weathered siltstone with interbedded shales and abundant chert, quartz and ironstaining to top of unit with minor tuff bands to bottom of unit.	0	45	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered shales with minor siltstone and mudstone sections.	45	53.8	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered sandstone with shale sections with banded iron staining. High core loss.	53.8	65.46	N/A	N/A	St Vidgeon Formation
Sandstone with minor interbanded shales, quartzose in part with minor tuff bands and sandy at base of unit.	65.46	102	N/A	N/A	?

Estimated daily and cumulative well costs		Surveys			
Yesterday	\$	114,800.00	Date	Depth [m]	Deviation [°]
Daily Costs	\$	16,600.00			
Cumulated	\$	131,400.00			

Pre-job safety meeting record			Personell on drillsite	
Date	Place	# of ppl	Drill crew - DRILLSTRALIS	3
1/08/2014	Roper Bar	14	Logger - ACS	0
			Geologist	0
			Cultural monitor	2

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Satphone Drillstralis: 0147 141 886
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WELL	BCF SC 02	Permit	EP184	
Report number	7	Rig	Hydco1200G	
Report for	2/08/2014	Spud Date	27/07/2014	
Date report submitted	3/08/2014	Prognosed TD	100 m ± 20	
Weather	sunny	RT - GL	0.88 m	
Days from Spud	6	GL - Elevation	25 m	

HSE	No Incidents, Accidents or Spills.
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Drilling

Last casing set @ [m]	53.80	Size [inch]	4-1/2 HWT	
Starting depth (6 am) [m]	102.6			
Finishing depth (6 pm) [m]	103			
Days progress [m]	0			
Summary of operations carried out	Install signage, take pictures, start rehabbing the drillpad.			
Operations Break Down	Time	Duration [h:min]	Depth [m]	Operation
	6:00	0:00	102.6	Install signage, take pictures, start rehab
Summary of the Next 24hrs	Rehab access track.			

Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Dull red to yellow highly weathered siltstone with interbedded shales and abundant chert, quartz and ironstaining to top of unit with minor tuff bands to bottom of unit.	0	45	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered shales with minor siltstone and mudstone sections.	45	53.8	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered sandstone with shale sections with banded iron staining. High core loss.	53.8	65.46	N/A	N/A	St Vidgeon Formation
Sandstone with minor interbanded shales, quartzose in part with minor tuff bands and sandy at base of unit.	65.46	102	N/A	N/A	?

Estimated daily and cumulative well costs		Surveys			
Yesterday	\$	131,400.00	Date	Depth [m]	Deviation [°]
Daily Costs	\$	10,000.00			
Cumulated	\$	141,400.00			

Pre-job safety meeting record			Personell on drillsite	
Date	Place	# of ppl	Drill crew - DRILLSTRALIS	0
2/08/2014	Roper Bar	14	Logger - ACS	0
			Geologist	0
			Cultural monitor	2

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Satphone Drillstralis: 0147 141 886

Satphone IOG: 0420 369 871

Geo: 040 6693 779

WELL	BCF SC 02	Permit	EP184	
Report number	8	Rig	Hydco1200G	
Report for	3/08/2014	Spud Date	27/07/2014	
Date report submitted	4/08/2014	Prognosed TD	100 m ± 20	
Weather	sunny	RT - GL	0.88 m	
Days from Spud	7	GL - Elevation	25 m	

HSE	No Incidents, Accidents or Spills.
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Drilling

Last casing set @ [m]	53.80	Size [inch]	4-1/2 HWT
Starting depth (6 am) [m]	102.6		
Finishing depth (6 pm) [m]	102.6		
Days progress [m]	0		
Summary of operations carried out	Wait for pictures of signage to be send		
Operations Break Down	Time	Duration [h:min]	Depth [m]
	6:00	12	102.6
Operation	Wait for pictures of signage to be send		
Summary of the Next 24hrs	Null		

Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Dull red to yellow highly weathered siltstone with interbedded shales and abundant chert, quartz and ironstaining to top of unit with minor tuff bands to bottom of unit.	0	45	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered shales with minor siltstone and mudstone sections.	45	53.8	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered sandstone with shale sections with banded iron staining. High core loss.	53.8	65.46	N/A	N/A	St Vidgeon Formation
Sandstone with minor interbanded shales, quartzose in part with minor tuff bands and sandy at base of unit.	65.46	102	N/A	N/A	?

Estimated daily and cumulative well costs		Surveys		
Yesterday	\$ 131,400.00	Date	Depth [m]	Deviation [°]
Daily Costs	\$ 10,000.00			
Cumulated	\$ 141,400.00			

Pre-job safety meeting record			Personell on drillsite	
Date	Place	# of ppl	Drill crew - DRILLSTRALIS	0
3/08/2014	Roper Bar	13	Logger - ACS	0
			Geologist	0
			Cultural monitor	0

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WELL	BCF SC 02	Permit	EP184	
Report number	9	Rig	Hydco1200G	
Report for	4/08/2014	Spud Date	27/07/2014	
Date report submitted	5/08/2014	Prognosed TD	100 m ± 20	
Weather	sunny	RT - GL	0.88 m	
Days from Spud	8	GL - Elevation	25 m	

HSE	No Incidents, Accidents or Spills.
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Drilling

Last casing set @ [m]	53.80	Size [inch]	4-1/2 HWT	
Starting depth (6 am) [m]	102.6			
Finishing depth (6 pm) [m]	102.6			
Days progress [m]	0			
Summary of operations carried out	Wait for pictures of signage to be send			
Operations Break Down	Time	Duration [h:min]	Depth [m]	Operation
	6:00	12	102.6	Wait for pictures of signage to be send
Summary of the Next 24hrs	Null			

Formation Description

Lithology description	Depth from [m]	Depth to [m]	Background gas (Units)	Gas peak [ppm]	Formation name
Dull red to yellow highly weathered siltstone with interbedded shales and abundant chert, quartz and ironstaining to top of unit with minor tuff bands to bottom of unit.	0	45	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered shales with minor siltstone and mudstone sections.	45	53.8	N/A	N/A	Nagi Formation
Red to cream coloured banded highly weathered sandstone with shale sections with banded iron staining. High core loss.	53.8	65.46	N/A	N/A	St Vidgeon Formation
Sandstone with minor interbanded shales, quartzose in part with minor tuff bands and sandy at base of unit.	65.46	102	N/A	N/A	?

Estimated daily and cumulative well costs		Surveys			
Yesterday	\$	131,400.00	Date	Depth [m]	Deviation [°]
Daily Costs	\$	10,000.00			
Cumulated	\$	141,400.00			

Pre-job safety meeting record			Personell on drillsite	
Date	Place	# of ppl	Drill crew - DRILLSTRALIS	
4/08/2014	Roper Bar	13	Logger - ACS	0
			Geologist	0
			Cultural monitor	0