



Broadford Bridge-1

Geological End of Well Report

OGA Well Number: L99/03-6

Licence : PEDL234 (Weald Basin)

June 2018

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1. WELL SUMMARY

Operator	:	Kimmeridge Oil & Gas Limited.
Well name	:	Broadford Bridge-1
OGA Well number	:	L99/03-6
Licence	:	PEDL234 (Weald Basin)
Classification	:	Conventional oil and gas exploration
Rig	:	British Drilling and Freezing Ltd., Rig 28
Surface Location	:	(Geographic Latitude and Longitude) 50° 59' 3.2130 N, 000° 26' 47.8558 W (Northing and Easting) 121744.456 N, 509023.331 E
Bottom Hole Location:	:	(Geographic Latitude and Longitude) 50° 59' 34.847 N, 000° 26' 23.141 W (Easting and Northing) 122731.65N, 509484.46 E
Elevation	:	RT-GL: 13.5 ft, RT-AMSL: 98.5 ft
Address	:	Adversane Lane, Broadford Bridge, West Sussex RH14 9ED
Spud date	:	29 th May 2017
TD Date	:	09 th July 2017
Total Depth – Driller	:	5850 ft MD, -4179.6 ft TVDSS
Primary Targets	:	Kimmeridge Limestones
Current Status	:	Suspended

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2. WELL OBJECTIVES

Primary Objectives

To evaluate the reservoir potential and the presence of moveable hydrocarbons in the naturally fractured Kimmeridge Limestone (KL) horizons via:

- Recovering core throughout the KL4 and KL3 targets.
- Collecting open hole electric logging and imaging data from the Lower Cretaceous Hastings Beds to the top of the Middle Jurassic Corallian Beds, i.e. the entire Kimmeridge Clay formation section.
- Collecting fluid samples from within the KL4 and KL3 core.

Secondary Objectives

- Recovering whole or sidewall core through the KL5 and KL2 targets and intervening shales.
- Collecting fluid samples from within the KL 5 and KL2 core.

Discussion

The Broadford Bridge-1 (“BB-1”) well site was originally permitted and constructed by Celtique Energie Ltd to test a deep Triassic target. Following the purchase of the licence by Kimmeridge Oil & Gas Limited (“KOGI”), a fully owned subsidiary of UK Oil & Gas Investments PLC (“UKOG”), the well target was altered to test the Kimmeridge Limestone (“KL”) “continuous oil-deposit” geological concept developed after the successful HH-1 Kimmeridge discovery, the Kimmeridge potential within the licence and the regional extent of the play. The subsurface maps supplied by UKOG demonstrate that BB-1 tested a location with no apparent conventional structural closure present at top Kimmeridge level. The well also hoped to confirm the presence and extent of a regional-scale natural fracture network within the Kimmeridge section.

Drilling and testing operations at KOGI’s Broadford Bridge-1 well (“BB-1”) and side-track (“BB-1z”), commenced in late May 2017 and concluded in March 2018.

The original well bore was drilled to a TD of 5850 ft MD, -4179.6 ft TVDSS in the Corallian. Due to very poor hole conditions, probably caused by the very extensive coring operation, it was impossible to acquire a full set of electric logs or to run casing to allow testing of the Kimmeridge zones of interest. A side-track, BB-1z, was therefore drilled (see separate report), logged and tested.

A total of 550 feet of conventional core was cut within the Kimmeridge at BB-1 over the main prospective Kimmeridge Limestone horizons KL2-KL4, including the KL3 and KL4, which were found to be productive at HH-1. Both core and log interpretations over the Kimmeridge section showed abundant open natural fractures within the Kimmeridge Limestones and sections of interbedded shales and limestones. Live oil was recovered at surface from open fractures in conventional core within the uppermost KL5 reservoir zone. Oil was also recovered from mud retorts throughout 1300 ft of Kimmeridge section together with wet gas shows.

In addition to the two Kimmeridge Limestone reservoir units described in the original HH-1 discovery well, four further Kimmeridge Limestone reservoir units were described in BB-1. These six

Kimmeridge Limestone reservoir zones, labelled as KL0 to KL5, were tested in BB-1z, recovering light oil to surface from multiple test zones. Rates were relatively low and the BB-1z well was suspended awaiting further study.

3. LOCATION

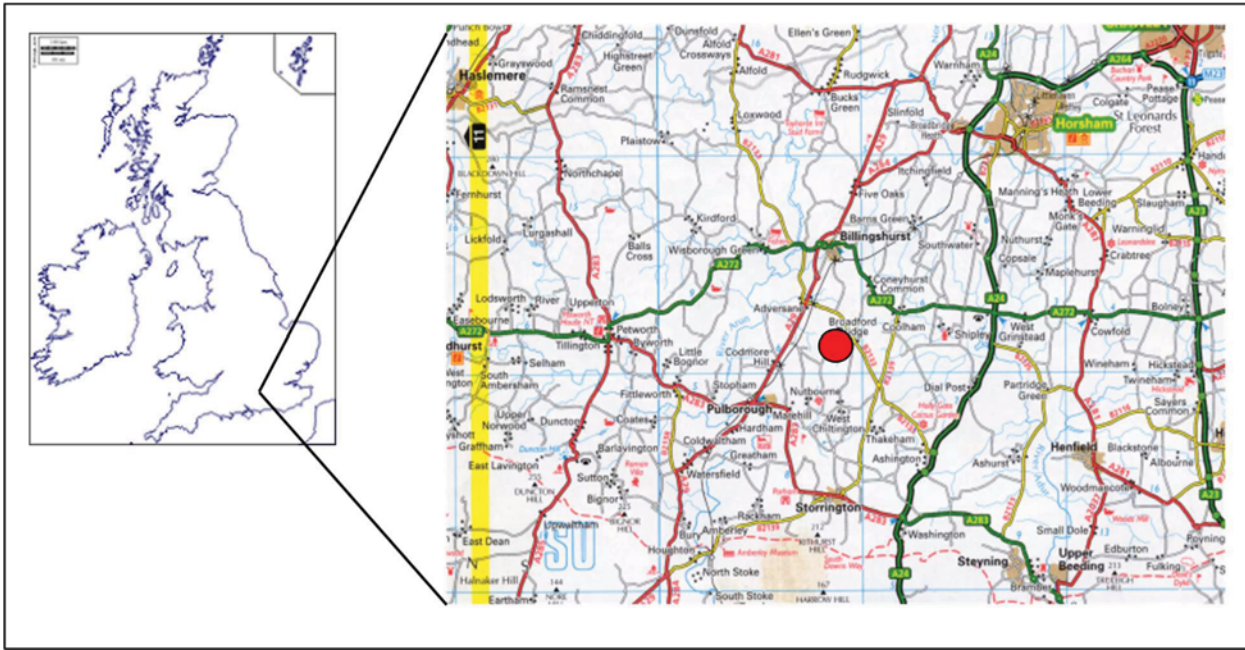


Figure 1: BB-1 Location

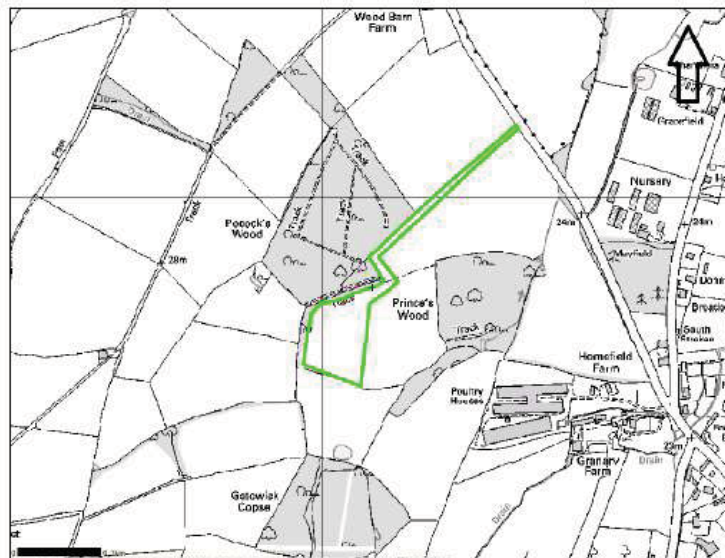


Figure 2: Site Diagram

4. STRATIGRAPHIC COLUMN

Age	Formation	Lithology	Depth MD-BRT (ft)	Depth TVDSS (ft)		
LOWER CRETACEOUS	WEALD CLAY	[Brown clay pattern]				
	HASTINGS BEDS	UPPER TUNBRIDGE WELLS SAND	[Yellow dotted pattern]	904	-800.6	
		GRINSTEAD CLAY	[Brown clay pattern]	1070	-961	
		L. TUN. WELLS SAND	[Yellow dotted pattern]	1308	-1176.6	
		WADHURST CLAY	[Brown clay pattern]	1399.5	-1252.8	
		ASHDOWN BEDS	[Yellow dotted pattern]	1683	-1465.3	
				2750	-2101.7	
UPPER JURASSIC	PURBECK	[Brown clay pattern]				
	PURBECK LIMESTONE	[Blue brick pattern]	3157.5	-2347.2		
	PORTLAND BEDS	[Yellow dotted pattern]	3343	-2457.4		
			3494	-2547.2		
	KIMMERIDGE CLAY		[Brown clay pattern]	4071	-2890.7	Kimmeridge Limestone #5
			[Blue brick pattern]	4130	-2927.4	Kimmeridge Limestone #4
			[Brown clay pattern]	4383	-3085.7	Kimmeridge Limestone #3
			[Blue brick pattern]	4755	-3337.5	Kimmeridge Limestone #2
			[Brown clay pattern]	5110	-3595.9	Kimmeridge Limestone #1
			[Blue brick pattern]	5596	-3973.5	Kimmeridge Limestone #0
M. JU.	CORALLIAN	[Yellow dotted pattern]	5730	-4081.7		
		[Brown clay pattern]	5850	-4179.6		
		TD				

Figure 3: Stratigraphic Column BB-1

All well tops defined for the Kimmeridge section are based on technical work conducted post drilling and coring, not those determined at the wellsite.

5. FORMATION TOPS

FORMATION TOPS	Broadford Bridge-1		
RT-GL: 13.5 ft, RT-AMSL: 98.5 ft			
Formation	Actual Depth		
	MD BRT ft	TVD ft	TVD SS ft
Upper Tunbridge Wells Sand	904.0	899.1	-800.6
Grinstead Clay	1070.0	1059.5	-961.0
Lower Tunbridge Wells Sand	1308.0	1275.1	-1176.6
Wadhurst Clay	1399.5	1351.3	-1252.8
Ashdown Beds	1683.0	1563.8	-1465.3
Upper Purbeck	2750.0	2200.2	-2101.7
Middle Purbeck	Faulted out		
Lower Purbeck	Faulted out		
Purbeck Anhydrite	Faulted out		
Purbeck Limestone	3157.5	2445.7	-2347.2
Portland Beds	3343.0	2555.9	-2457.4
Kimmeridge Clay Formation	3494.0	2645.7	-2547.2
Kimmeridge Limestone #5	4071.0	2989.2	-2890.7
Kimmeridge Clay Formation	4086.0	2998.6	-2900.1
Kimmeridge Limestone #4	4130.0	3025.9	-2927.4
Kimmeridge Clay Formation	4262.0	3105.8	-3007.3
Kimmeridge Limestone #3	4383.0	3184.2	-3085.7
Kimmeridge Clay Formation	4490.0	3254.7	-3156.2
Kimmeridge Limestone #2	4755.0	3436.0	-3337.5
Kimmeridge Clay Formation	4798.0	3466.4	-3367.9
Kimmeridge Limestone #1	5110.0	3694.4	-3595.9
Kimmeridge Clay Formation	5155.0	3728.3	-3629.8
Kimmeridge Limestone Zero	5596.0	4072.0	-3973.5
Kimmeridge Clay Formation	5604.0	4079.0	-3980.5
Corallian	5730.0	4180.2	-4081.7
TD	5850.0	4278.1	-4179.6

Figure 4: Formation Tops

All well tops defined for the Kimmeridge section are based on technical work conducted post drilling and coring, not those determined at the wellsite.

6. PROGNOSED VS ACTUAL DEPTHS

BBR1	Formation	PROGNOSED			ACTUAL			DIFFERENCE (-ve = actual deeper)					
		MD BRT ft	TVD ft	TVDSS ft	MD BRT ft	TVD ft	TVDSS ft	MD BRT ft	TVD ft	TVDSS ft			
	Weald Clay			95									
	U Tunbridge Wells Sands Hastings	942.6	935.5	-827.0	904	899.1	-800.6	38.6	36.4	-26.4			
	Grinstead Clay	1126.0	1108.5	-1000.0	1070	1059.5	-961	56.0	49.0	-39.0			
	L Tunbridge Wells Sand	1233.1	1205.5	-1097.0	1308	1275.1	-1176.6	-74.9	-69.6	79.6			
	Wadhurst Clay	1336.4	1295.5	-1187.0	1399.5	1351.3	-1252.8	-63.1	-55.8	65.8			
	U Purbeck *	2241.2	1908.5	-1800.0	2750	2200.2	-2101.7	-508.8	-291.7	301.7			
	Purbeck Anhydrite *												
	Purbeck Limestone *	2745.0	2233.5	-2125.0	3157.5	2445.7	-2347.2	-412.5	-212.2	222.2			
	Portland Beds	2928.4	2313.5	-2205.0	3343	2555.9	-2457.4	-414.6	-242.4	252.4			
	Top Kimm Clay	3462.9	2628.5	-2520.0	3494	2645.7	-2547.2	-31.1	-17.2	27.2			
	Top Kimm Limestone 4	4178.9	3050.5	-2942.0	4130	3025.9	-2927.4	48.9	24.6	-14.6			
	Top Kimm Limestone 3	4603.8	3300.5	-3192.0	4383	3184.2	-3085.7	220.8	116.3	-106.3			
	Top Kimm Limestone 2	5095.1	3590.5	-3482.0	4755	3436	-3337.5	340.1	154.5	-144.5			
	Top Kimm Limestone 1	5583.8	3878.5	-3770.0	5110	3694.4	-3595.9	473.8	184.1	-174.1			
	Top Corallian	5974.1	4108.5	-4000.0	5730	4180.2	-4081.7	244.1	-71.7	81.7			
	TD	6143.7	4208.5	-4100.0	5850	4278.1	-4179.6	293.7	-69.6	79.6			

* = probably faulted out/affected by fault

Table 1: PrognoSED and Actual Depths

Differences between prognosis and actual are mainly due to actual position of the fault and changes in well path while drilling imposed due to operational reasons.

7. SEISMIC CROSS-SECTION AND MAP

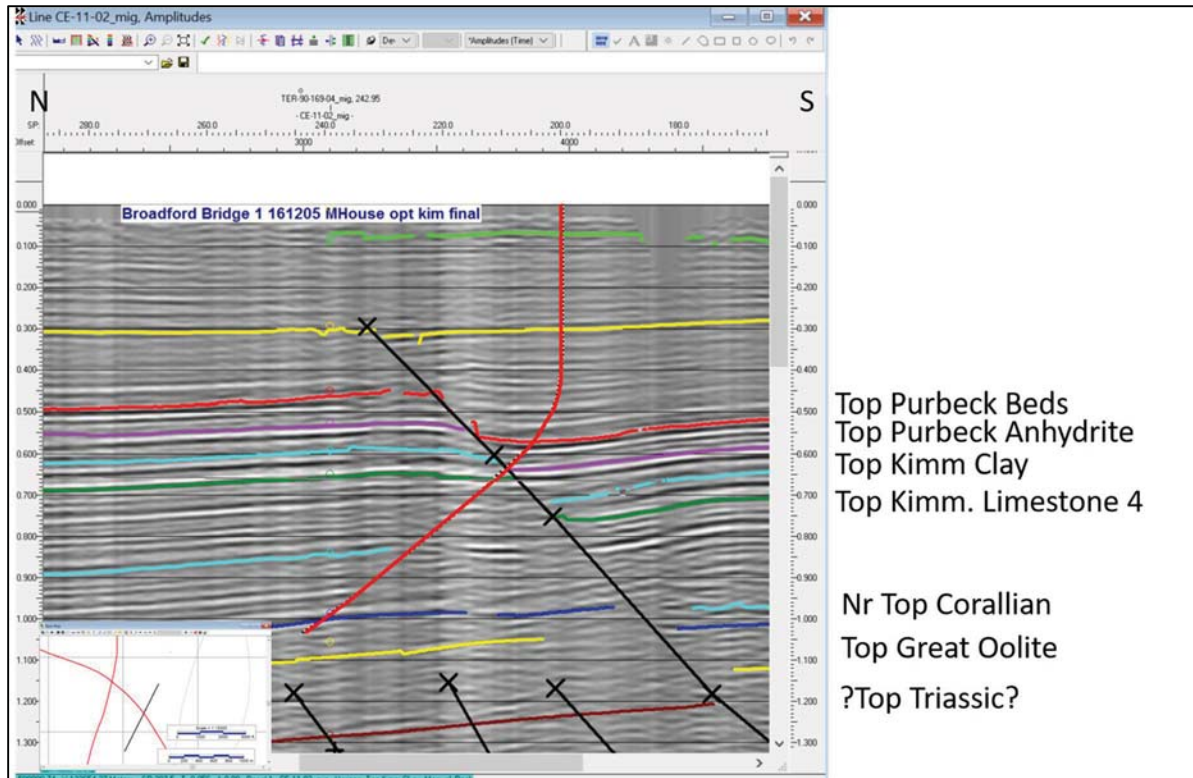


Figure 5: N-S Seismic Line

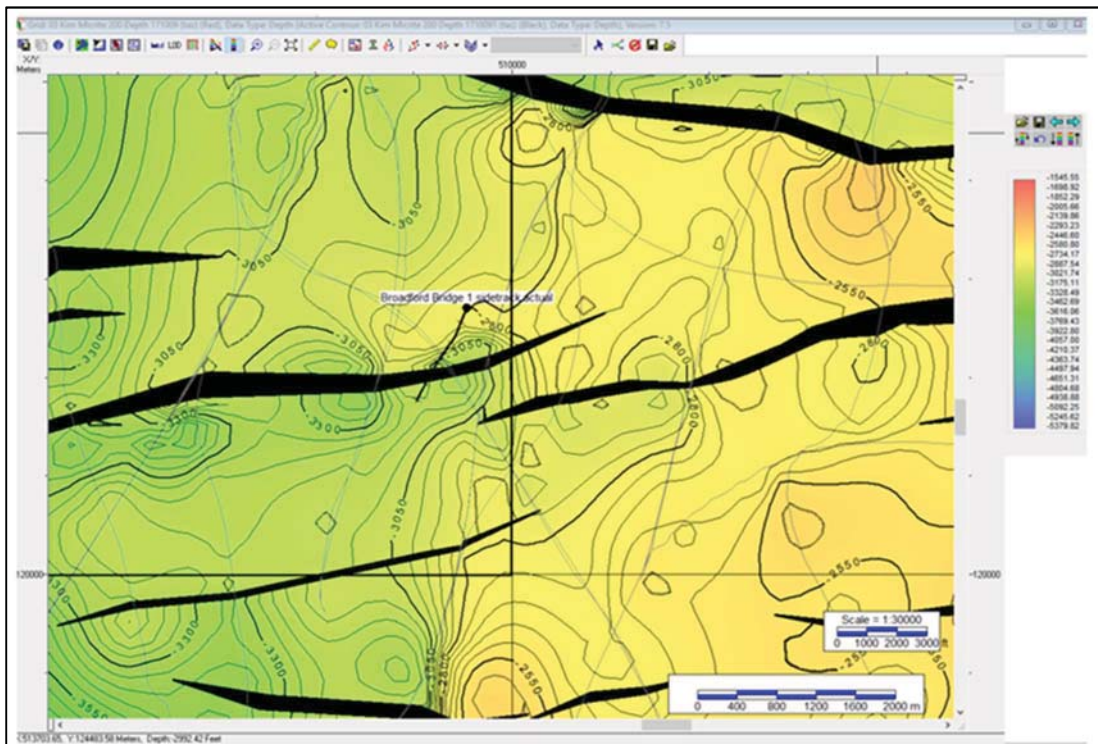


Figure 6: Top KL4 Depth Map Post Well Showing No Closure

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8. GEOLOGY AND SHOWS

All Measured Depths (MD) are taken from the rig Rotary Kelly Bushing;

RKB – Ground Level = 13.5 ft RKB – Mean Sea Level = 98.5 ft

Weald Clay: surface to 904 ft MD, - 800.6 ft TVDSS

This section consists predominantly of claystone with interbedded sandstones and siltstones. There is a small sandstone at the top of the section.

The sandstone in the sequence is off white, white, translucent, frosted, occasionally transparent, fine to medium grained, subrounded to subangular, moderately sorted, occasional glauconitic, occasional trace of carbonaceous material slightly calcareous, no visible porosity.

The claystones in the section vary in colour and are described below.

Claystone: light grey to medium grey, firm to moderately hard, hard, blocky, slightly calcareous, moderately calcareous

Claystone: light grey, light cream brown grey, soft to hard, mushy, blocky, earthy, commonly slightly silty, non-calcareous to moderately calcareous, very sticky; becoming light to medium grey, occasionally light cream brown, soft to firm, sub blocky to blocky, earthy, occasionally silty, non-calcareous

Claystone: vari coloured, red brown, light to medium grey, green grey, yellow brown, soft to moderately hard, occasionally hard, blocky, earthy, occasionally silty, non-calcareous to moderately calcareous, locally very calcareous

Claystone: light to medium grey, rarely dark grey, firm, occasionally hard, blocky, angular, slightly to very calcareous

Claystone at the base of the section: light to medium grey, firm, occasionally soft, blocky, earthy, commonly silty, non-calcareous grading to siltstone with traces of very finely disseminated pyrite

ROP ranged from 2.1 ft/hr to 128.8 ft/hr, averaging 34.6 ft/hr.

Background gas was 0.003%. Maximum gas was 0.01% at 305 ft: C1: 82 ppm, C2: 0 ppm, C3: 0 ppm, iC4: 0 ppm, nC4: 0 ppm, iC5: 0 ppm, nC5: 0.

Upper Tunbridge Wells Sandstone: 904 ft MD, -800.6 ft TVDSS

This formation consists of interbedded sandstone, siltstone and claystone.

At the top of the sequence the sandstone is white, off white, light grey, friable, moderately hard, often loose, very fine, rounded to well rounded, well sorted, argillaceous matrix, no visible porosity, no show.

The claystone is predominantly light grey, medium grey, occasionally blue grey, firm, occasionally moderately hard, blocky, non-calcareous, silty, locally grading to Siltstone.

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The sandstone at the sequence base is white, off white, translucent, friable, predominantly loose quartz, fine to medium, subangular to rounded, moderately well sorted, glauconitic, occasional rounded lithic grains, poor visible porosity, no show.

ROP ranged from 3.1 ft/hr to 133.2 ft/hr, averaging at 44.3 ft/hr.

Background gas was 0.001%. Maximum gas was 0.003% at 962 ft: C1: 33 ppm, C2: 0 ppm, C3: 0 ppm, iC4: 0 ppm, nC4: 0 ppm, iC5: 0 ppm, nC5: 0.

Grinstead Clay: 1070 ft MD, -961 ft TVDSS

Predominantly claystone with some sandstone and siltstone interbeds.

The claystone is light to medium grey, red brown, yellow, varicoloured, firm, blocky, slightly to non-calcareous, silty.

The sandstone is white, off white, light grey, translucent, transparent, rarely pale greenish white, soft to moderately firm, friable, blocky, consolidated, very fine to fine, subrounded to subangular, well sorted, well cemented, non-calcareous to slightly calcareous cement, occasionally moderately calcareous cement, no visible porosity, no shows.

ROP ranged from 9.9 ft/hr to 105.7 ft/hr, averaging 48.8 ft/hr.

Background gas was 0.001%. Maximum gas was 0.002% at 1070 ft: C1: 25 ppm, C2: 0 ppm, C3: 0 ppm, iC4: 0 ppm, nC4: 0 ppm, iC5: 0 ppm, nC5: 0.

Lower Tunbridge Wells Sand: 1308 ft MD, -1176.5 ft TVDSS

This section consists predominantly of sandstone with claystone.

The sandstone is white, off white, light grey, translucent, transparent, cream, ochre, rarely pale greenish white, soft to moderately firm, friable, blocky, consolidated, very fine to fine grained, subrounded to subangular, well sorted, well cemented, non-calcareous to slightly calcareous cement. The samples are commonly rock flour. There is no visible porosity and no shows.

The claystone is dark grey to medium grey, occasionally red brown, cream brown, yellow, firm occasionally hard, platy, angular and calcareous.

ROP ranged from 4.5 ft/hr to 125.1 ft/hr, averaging 58.1 ft/hr.

Background gas was 0.002%. Maximum gas was 0.005% at 1330 ft: C1: 48 ppm, C2: 0 ppm, C3: 0 ppm, iC4: 0 ppm, nC4: 0 ppm, iC5: 0 ppm, nC5: 0.

Wadhurst Clay: 1399.5 ft MD, -1252.8 ft TVDSS

Claystone section.

The claystone is medium grey, light grey, light blue grey, medium grey green, mustard, firm, occasionally hard, blocky, sub blocky, platy, slightly calcareous becoming moderately to very calcareous with depth.

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ROP ranged from 4.3 ft/hr to 80.5 ft/hr, averaging 34.9 ft/hr.

Background gas was 0.001%. Maximum gas was 0.002% at 1651 ft: C1: 25 ppm, C2: 0 ppm, C3: 0 ppm, iC4: 0 ppm, nC4: 0 ppm, iC5: 0 ppm, nC5: 0.

Ashdown Beds: 1683 ft MD, -1465.3 ft TVDSS

Interbedded sandstone, siltstone and claystone.

The sandstone at the section top is white, off white, cream, translucent, transparent, firm, occasionally hard, friable, sub blocky, consolidated, very fine to fine grained, well sorted, siliceous cement, well cemented, no visible porosity, occasionally slightly argillaceous with light grey to medium grey matrix, occasional presence of carbonaceous material, occasional trace of calcite, becoming very silty in lower parts of Ashdown beds. The sandstones are predominantly rock flour in the samples.

The claystone is light grey, medium grey, occasionally light green grey, off white, occasionally dark grey, firm, blocky, platy, waxy, soapy, non-calcareous to calcareous in places

The dolomite is buff, light brown, hard to very hard, blocky, angular, splintery, microcrystalline.

The siltstone is buff, cream, light brown, off white, firm, blocky, with occasional trace carbonaceous material. In the lower parts of the Ashdown beds it is predominantly light grey, off white, firm, occasionally moderately hard, blocky, sub blocky, micromicaceous, non-calcareous, grading to very fine silty sandstone.

ROP ranged from 0.7 ft/hr to 212.8 ft/hr, averaging 47.7 ft/hr throughout the section.

Gas Readings ranged from 0.05 to 0.01% at 2197 ft: C1 = 141 ppm.

After drilling out the shoe it was found that a depth correction had to be applied to the samples of 30 feet. From the shoe depth to the first coring point due to an error in the pipe tally.

Purbeck Beds: 2750 ft MD, -2101.7 ft TVDSS

The Purbeck section was picked on the cuttings based on an increase in the calcareous nature of the claystones.

The Purbeck Anhydrite and Limestone are faulted out in this well. The section consists of claystone, limestone with traces of dolomitic limestone and a minor trace of dolomite.

The claystone at the top of the section is light to medium grey, green grey, brown/grey, cream brown, soft to firm, blocky, angular, waxy in texture, non-calcareous to very calcareous in places occasionally dark grey/dark green grey firm blocky non-calcareous

With depth, the claystones become more calcareous and grade from a calcareous claystone to an argillaceous limestone. The claystone becomes predominantly medium grey, grey, firm, medium brown to dark brown, blocky, angular, earthy, waxy, moderately hard and very calcareous in places.

The argillaceous limestone is cream, buff, light grey, occasionally medium grey, firm to moderately hard, sub blocky, platy, occasionally angular, splintery, microcrystalline, grading to a calcareous claystone.

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The limestone is dark grey, firm to moderately hard, blocky, microcrystalline, crystalline, occasionally crumbly, sucrosic, with occasional hard shards containing dark grey argillaceous material. Dolomitic limestone is brown, cream, firm, crystalline, sucrosic, also angular and platy.

Anhydrite: there is a very minor trace of anhydrite in the samples which is white, off white, soft, amorphous, and slightly calcareous in places.

At the base of the Upper Purbeck there is a trace of a sandy limestone. This limestone is dark grey, brown, clear, very arenaceous, hard, consolidated, with traces of glauconite, shell fragments. There is a trace of a dull orange mineral fluorescence with no associated shows.

ROP ranged from 0.8 ft/hr to 141.1 ft/hr. Average 53.2 ft/hr

Background gas was 0.005%

Maximum gas was 0.04% at 3139 ft: C1: 316 ppm, C2: 12 ppm, C3: 6 ppm, iC4: 0 ppm, nC4: 0 ppm, iC5: 0 ppm, nC5: 0

Purbeck Limestone: 3157.5 ft MD, -2347.2 ft TVDSS

Argillaceous limestone grading to calcareous claystone with traces of anhydrite and calcite.

The argillaceous limestone is grey, medium grey, very occasionally dark grey, firm, platy, sub blocky, blocky, micromicaceous, very calcareous with traces of nodular pyrite grading to a calcareous claystone.

The claystone is grey, medium grey, dark grey, brown, grey/brown, firm to moderately hard, blocky to sub blocky, earthy, micromicaceous, non to slightly calcareous occasionally silty, with traces of disseminated pyrite and calcite.

ROP ranged from 3.4 ft/hr to 118.7 ft/hr. Average 32.9 ft/hr

Background gas was 0.03%

Maximum gas was 0.09% at 3281 ft: C1: 734 ppm, C2: 53 ppm, C3: 20 ppm, iC4: 0 ppm, nC4: 0 ppm, iC5: 0 ppm, nC5: 0

Portland Beds: 3343 ft MD, -2457.4 ft TVDSS

This section consists of sandstone, siltstone, claystone and a sandy limestone.

The top of the section is marked with a sandy limestone which is light grey, off white, mottled, translucent, transparent, fine grained, subangular to subrounded, moderately sorted, firm to hard, consolidated, matrix supported, friable, very sandy, no visible porosity, grading to calcareous sandstone.

The sandstone is light grey, medium grey, off white, mottled, clear, transparent, translucent, opaque, fine to medium, subangular to sub rounded, occasionally rounded, moderately sorted, consolidated, friable, calcareous cemented, glauconitic, and silty in places, no visible porosity, no shows were observed.

The siltstone is medium grey, occasionally dark grey, firm to hard, occasionally friable, sucrosic, blocky to sub-blocky, moderate to very calcareous.

Losses up to 50 bbl/hr.

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ROP ranged from 4.1 ft/hr to 78.3 ft/hr. Average 26.5 ft/hr

Background gas was 0.02%

Maximum gas was 0.06% at 3493 ft: C1: 518 ppm, C2: 18 ppm, C3: 11 ppm, iC4: 0 ppm, nC4: 0 ppm, iC5: 0 ppm, nC5: 0

Kimmeridge: 3494 ft MD, -2547.2 ft TVDSS

All well tops defined for the Kimmeridge section are based on technical work conducted post drilling and coring, not those determined at the wellsite.

The Kimmeridge section consists of calcareous claystones (Kimmeridge Clay Formation “KCF”) which grade to argillaceous limestones (Kimmeridge Limestone Formation “KL”). There are some minor siltstones at the top of the section.

Within the section there are 6 zones of interest; the KL5, KL4, KL3 and KL2 were cored in their entirety and the KL1 and KL0 (“zero”) were drilled.

The top of the section was picked on samples and after a steady rise and levelling off on the gamma trace.

The claystone at the section top is grey, medium to dark grey, brown grey, occasionally green grey, firm to moderately hard, blocky, locally sub fissile, slightly calcareous, micromicaceous, locally silty. The claystones are very calcareous in places and are occasionally slightly dolomitic. There are traces of shell debris.

The claystones become predominantly medium grey, occasionally light brown grey, dark grey, predominantly blocky, sub blocky, occasionally platy, earthy, waxy, moderately to very calcareous grading to a mixture of calcareous claystone/argillaceous limestone sequence.

There are abundant lost circulation zones in the section due to many fractures in the limestones and the claystones; consequently, a lot of lost circulation material in the form of calcium carbonate was added to drilling fluids and contaminated many of the drilled samples.

In order to make sure the top of the KL4 zone was not missed, after consultation with the Chemostrat, town and the wellsite team it was decided to run the first core barrel at 4018.5 ft.

A white limestone layer identified as KL5 was picked at 4083 ft MD from core number 3 which shows free oil in the limestone fractures. The limestone is off white, cream, light to medium brown, firm, microcrystalline, argillaceous, with a yellow mineral fluorescence, a weak diffuse pale milky cut fluorescence and a residual ring.

Twelve cores in succession were cut from 4018.8 ft to 4511.3 ft MD totalling 492.5 ft, which encompassed KL4 and KL3. A further core was cut in the KL2 from 4719 ft to 4780 ft MD. This further 61 ft made a total of 554.06 ft cut in total and 552 ft recovered, representing a total recovery of 99.63%.

Core	Date	Cut (ft)				Recovered (ft)	
		From	To	Total	Core Hrs	Rec	%
1	20/06/2017	4018.24	4035.53	17.29	3.2	15.5	89.6
2	21/06/2017	4035.53	4065.20	29.67	4.2	32.3	108.9
3	22/06/2007	4065.20	4125.80	60.60	4.1	60.0	99.0
4	23/06/2017	4125.80	4188.00	62.20	4.2	62.3	100.2
5	24/06/2017	4188.00	4254.00	66.00	8.1	66.5	100.8
6	25/06/2017	4254.00	4290.60	36.60	2.3	36.6	100.0
7	26/06/2017	4290.60	4338.00	47.40	5.5	46.5	98.1
8	27/06/2017	4338.00	4348.00	10.00	3.9	9.0	90.0
9	28/06/2017	4348.00	4369.00	21.00	1.3	22.7	108.1
10	29/06/2017	4369.00	4417.35	48.35	6.7	49.4	102.2
11	30/06/2017	4417.35	4443.30	25.95	4.2	25.4	97.9
12	01/07/2017	4443.30	4511.30	68.00	5.4	64.8	95.3
13	04/07/2017	4719.00	4780.00	61.00	4.1	61.0	100.0
				554.06		552.0	

Table 2: Coring Summary

**KL5: Top: 4071 ft MD, -2890.7 ft TVDSS
Base:4086 ft MD, -2900.1 ft TVDSS**

Limestone.

The limestone is off white, cream, light to medium brown, hard, microcrystalline and argillaceous. There is a dull yellow possibly mineral fluorescence and a weak pale milky cut fluorescence and residual ring fluorescence. Free oil was seen in the limestone fractures of core number 3 at 4083 ft MD.

**KL4: Top: 4130 ft MD, -2927.4 ft TVDSS
Base:4262 ft MD, -3007.3 ft TVDSS**

Predominantly limestone with a couple of claystone stringers at the top. The top of the limestone appears to gradational from a limey claystone.

Examination of the ends of the core tubes from this section shows the argillaceous limestone to be brown, hard to very hard, crystalline, with a strong hydrocarbon odour, there is visible free oil in the fractures which has a yellow possibly mineral fluorescence with a faint diffuse pale milky cut fluorescence and leaves a residual oil ring.

This can take up to 15 minutes to become observable. Free oil was identified in fractures within the core at 4167.5 ft MD.

The claystone in the section is dark grey, black, hard to very hard, homogeneous, calcareous, and micromicaceous. There are thin fractures in the claystones with partial calcite infill; there is oil seepage from some of the fractures.

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**KCF: Top: 4262 ft MD, -3007.3 ft TVDSS
Base: 4383 ft MD, -3085.7 ft TVDSS**

The section from the base of the KL4: 4262 ft MD to the top of KL3: 4383 ft MD is predominantly claystone.

Claystone: dark grey, black, hard to very hard, homogeneous, calcareous, and micromicaceous. The claystone becomes more calcareous with depth and there are traces of fine pyrite. There are thin fractures in the claystones with partial calcite infill and oil seepage from some of the fractures.

The fractures are small and generally 45 degrees. The claystone has a very dull yellow fluorescence with a very faint pale milky cut fluorescence taking 10 to 15 minutes to become visible and leaving a residual oil ring. There is no hydrocarbon odour and no free oil can be observed. Traces of free oil were reported in the retort test from 4290.6 ft. From 4260 ft there is a steady rise in the background gas from 0.05% to 0.35%.

**KL3: Top: 4383 ft MD, -3085.7 ft TVDSS
Base 4490 ft MD, -3156.2 ft TVDSS**

This section is limestone and the top could not be determined at the wellsite by the core as the barrel containing the section could not be opened due to the core swelling. Later technical work conducted off site allowed for the KL3 top to be identified.

The limestone is dark grey, hard to very hard, blocky to angular, microcrystalline, argillaceous, with no visible porosity and displaying a dull yellow fluorescence and a faint pale milky cut fluorescence and residual oil ring.

Argillaceous limestone grading to calcareous claystone: dark grey to grey black, hard, blocky, becoming more argillaceous, homogeneous, moderate to very calcareous, very dull yellow fluorescence, very faint pale milky cut fluorescence and residual oil ring,

Fractures were observed throughout the cored section but no visible oil was observed. Fractures were observed at 4420 ft, 4426 ft, 4435 ft, 4438 ft, 4452 ft, 4465 ft, 4473 ft, 4487 ft, all at 45 degrees with a possible fracture at 90 degrees to this at 4440.4 ft.

There were losses of up to 150 barrels per hour recorded in the KL3 section and traces of free oil were noted in the mud retort test at 4443.3 ft MD.

**KCF: Top: 4490 ft MD, -3156.2 ft TVDSS
Base: 4755 ft MD, - 3337.5 ft TVDSS**

Predominantly claystone with a few minor stringers of limestone.

The claystone is dark grey, firm to moderately hard, blocky, micromicaceous, calcareous.

The limestone stringers are medium grey, grey brown, firm to hard, blocky, microcrystalline, argillaceous, no visible porosity, occasional dull yellow fluorescence, very faint pale milky cut fluorescence. There were traces of free oil noted in the mud retort test at 4511 ft MD.

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**KL2: Top: 4755.0 ft MD, - 3337.5 ft TVDSS
Base: 4798.0 ft MD, - 3367.9 ft TVDSS**

The KL2 section was cored in core #13.

The limestone is dark grey, hard to very hard, blocky to angular, homogeneous, argillaceous, microcrystalline, with no visible porosity.

The samples have a dull yellow fluorescence and a very faint pale milky cut fluorescence and residual ring fluorescence.

No fractures were observed in the limestone. There were traces of free oil noted in mud retort test at 4780 ft MD. Additionally there were losses of up to 250 barrels per hour recorded in the KL2 section.

**KCF: Top: 4798.0 ft MD, - 3367.9 ft TVDSS
Base: 5110.0 ft MD, -3595.9 ft TVDSS**

Calcareous claystone grading to argillaceous limestone.

The claystone in the sequence is medium grey, grey, occasionally light brown grey, occasionally dark grey, predominantly blocky, sub-blocky, occasionally platy, earthy, waxy grading to a very calcareous claystone/argillaceous limestone in places.

There was a lot of lost circulation material namely calcium carbonate added in this section due to continuing losses in the fractures.

Some of the claystone is brown, dark brown, dark grey, firm to moderately hard, occasionally platy, angular, micromicaceous, waxy, earthy in places, and moderate to very calcareous.

The limestone is light grey, brown, white, mottled, firm to moderately hard, crystalline, argillaceous, with no visible porosity and a very dull yellow fluorescence with no cut observed.

**KL1: Top: 5110.0 ft MD, -3595.9 ft TVDSS
Base: 5155.0 ft MD, - 3629.8 ft TVDSS**

Argillaceous limestone grading to calcareous claystone.

The argillaceous limestone is medium brown, brown/grey, medium grey, soft to firm, microcrystalline, blocky, with no visible porosity. There is a dull yellow fluorescence with a very faint slow diffuse pale milky cut fluorescence.

The claystone is medium to dark brown/grey, medium grey, rarely green grey, firm to moderately hard, blocky, platy, earthy, micromicaceous, moderate to very calcareous, occasionally slightly calcareous. The grey green claystones are non to slightly calcareous.

The section experienced some heavy losses due to fractures with rates of 160 barrels per hour recorded. There were traces of free oil noted in mud retort test at 5145 ft MD.

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KCF: Top: 5155.0 ft MD, - 3629.8 ft TVDSS
Base: 5596.0 ft MD, -3973.5 ft TVDSS

Calcareous claystone with occasional thin limestone bands.

The claystone is medium to dark brownish grey, grey brown, medium grey, rarely greenish grey, firm to hard, blocky, platy, earthy, micromicaceous, and generally moderately calcareous.

The limestone bands are brown grey, occasionally cream to brown, mottled, firm to moderately hard, blocky, splintery, occasionally angular, microcrystalline, and argillaceous with no visible porosity and no shows.

KL0: Top: 5596 ft MD, -3973.5 ft TVDSS
Base: 5604.0 ft MD, - 3980.5 ft TVDSS

Thin band of argillaceous limestone.

The argillaceous limestone is medium brown, brown/grey, medium grey, soft to firm, microcrystalline, blocky, with no visible porosity. There is a very faint dull yellow fluorescence with a very faint very slow diffuse pale milky cut fluorescence.

KCF: Top: KL0: 5604.0 ft MD, - 3980.5 ft TVDSS
Base: 5730 ft MD, -4081.7 ft TVDSS

The remainder of the Kimmeridge section is predominantly claystone with small interbedded limestones with some siltstone grading to silty sandstone towards the base of the section.

The claystone is medium brown, brown/grey, firm, blocky, platy, earthy, micromicaceous, slightly calcareous to moderately calcareous.

The limestone is light grey, occasionally mottled, light brown, soft to hard, occasionally very hard, blocky, splintery, occasionally angular, microcrystalline, with no visible porosity and no shows observed.

Towards the base of the section there is some siltstone which is light to medium cream grey, light to medium grey, light brown grey, soft, occasionally firm, crumbly, amorphous, blocky, calcareous to very calcareous in places.

The siltstone grades to a silty sandstone which is buff, cream, off white, firm-hard, consolidated, friable, crumbly, with a grey/white argillaceous matrix, calcareous in places. There is no visible porosity and no shows.

There were abundant mud losses in the section ranging from 25-35 bbl/hr, the flow rates were controlled to minimise the losses in the section.

Traces of free oil were noted in the mud retort test at 5508 ft MD.

ROP for the Kimmeridge section was varied due to coring and controlling the drilling due to losses etc. Range was 0.2 ft/hr to 251-1 ft/hr with an average of 35.8 ft/hr.

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Background gas was 0.14%

Maximum gas was 0.73% at 4651.0 ft: C1=6453 ppm, C2=174 ppm, C3=109 ppm, Ic4 = 12 ppm, Nc4 = 31, C5 = 0.

Corallian: Top: 5730 ft MD, - 4081.7 ft TVDSS

Sandstone and siltstone.

The sandstone is off white, light grey, clear, translucent, occasionally buff, frosted grains, very fine to fine grained, subangular to subrounded, moderately well sorted, consolidated, white very calcareous matrix with traces of glauconite, pyrite, carbonaceous material and occasional dark grey pelloids; there is no visible porosity and no shows. The sandstone grades to a silty sandstone.

The siltstone in the section is light grey, firm, blocky, slightly to moderately calcareous and arenaceous grading to silty Sandstone.

Traces of free oil were reported by the mud man in his mud retort tests at 5735 ft and 5850 ft MD. There were losses as the section was drilled of 40 bbl/ hour. The losses were controlled by lowering flow rates in the section.

Range was 3.2 ft/hr to 48.9 ft/hr with an average of 21.6 ft/hr

Background gas was 0.02%

Maximum gas was 0.04% at 5840.0 ft: C1=320 ppm, C2=16 ppm, C3=12 ppm, Ic4 = 2 ppm, Nc4 = 4, C5 = 0.

9. MUDLOGGING SERVICES

These were provided by GDS Ltd. who normally had two personnel on site throughout the operation. In addition to mud-logging they also sampled the cuttings and supervised coring and logging.

A full list of samples is given in the Appendices.

10. CHEMOSTRAT

During the well planning phase it became clear, that due to the lack of modern, published studies on the Kimmeridge section onshore UK, identification of intra-Kimmeridgian was likely to be an issue. KOGL therefore contracted Chemostrat Ltd to analyse the rock chemistry in offset wells and develop a usable framework for Broadford Bridge-1 operations.

This was cross-checked against the biostratigraphy and a good and workable correlation system was developed using both techniques.

It was decided to position two Chemostrat employees on site during the drilling of the 8 5/8 inch hole – i.e. through the whole of the Kimmeridge section. Using their on-site lab, they were able to offer a turnaround of 15-20 minutes on samples (cuttings and core chips) and it proved a great success. In combination with the near-bit Target Gamma Ray Log it was possible to correlate to within 5ft or less at all times and to pick coring points with great accuracy.

Updated correlations were produced several times a day and a daily report was submitted with morning report– a typical example is given below.

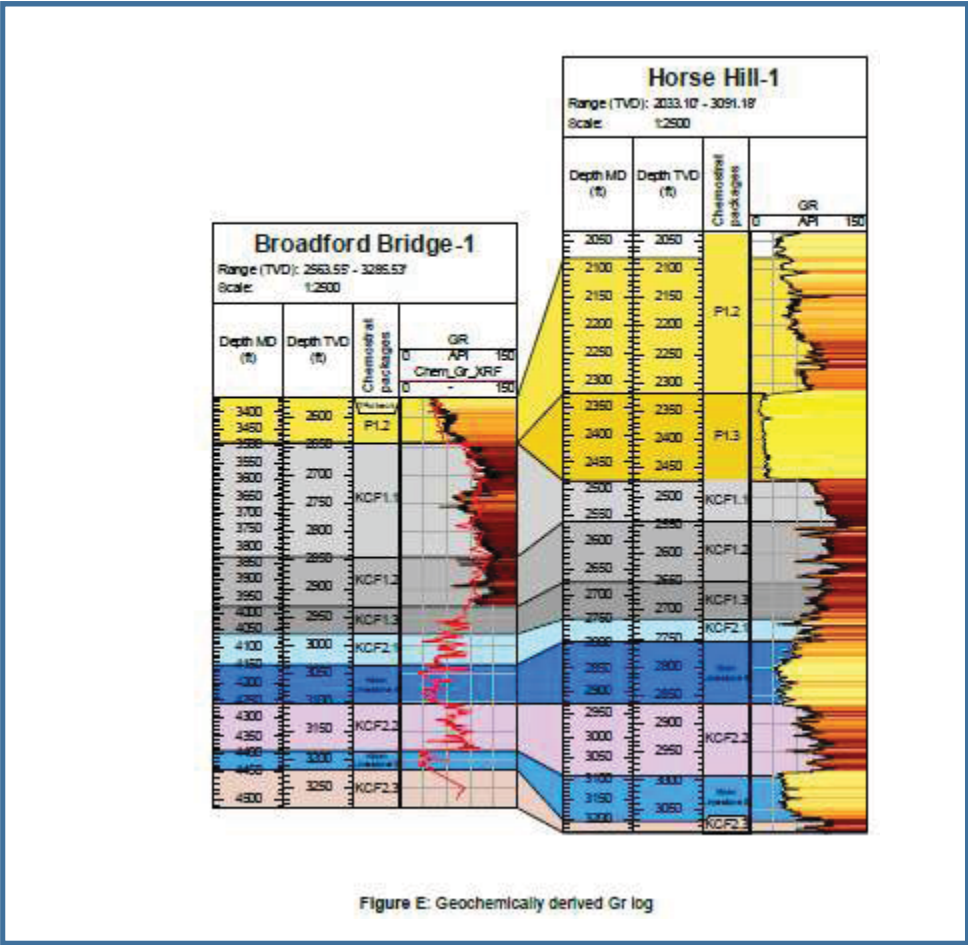


Figure 7: Chemostrat Daily Correlation Diagram Example

11. BIOSTRATIGRAPHY

For the same reasons discussed in the chemostrat section above, KOGI commissioned a detailed biostratigraphy study of offset data from Riley Geoscience Ltd. This correlated well with the chemostrat system.

During drilling several samples were hot shot from the rig to confirm the stratigraphy. These were in total agreement with the chemostrat. As each biostratigraphy analysis was taking approx. 24-30 hours (including sample preparation & shipping) compared to the 15 minute turn-around on the chemical samples, it was agreed that we would depend on the chemical and gamma ray correlation for the remainder of well operations.

A whole sample set was analysed for biostrat. by Riley post-well and confirmed the correlations determined on the well-site. Detailed Micropalaeontology & Palynology reports were produced.

Results of the two hotshots analysed (2630 ft – 2676 ft MD):

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2630 ft MD

Micropalaeontology: Cypridea spp. – 1

Lithology: siltstone, offwhite, trace carbonaceous specks locally, non-calcareous, moderately well indurated. Claystone, light olive grey, medium light grey/light brownish grey, locally haematitic red, moderate reddish brown, medium grey/greenish grey, light grey, pale yellowish brown/very pale orange, locally waxy, non-calcareous, subplaty. Rare limestone, greyish orange-dark yellowish orange, cryptocrystalline-finely sucrosic. Rare sphaerosiderite nodules, light brown-brown.
Age: Indet. Probably lower Wealden / Upper Purbeck facies

2676 ft MD

Micropalaeontology: Cypridea spp. – 1

Lithology: siltstone, offwhite, trace carbonaceous specks locally, non-calcareous, moderately well indurated. Claystone, light olive grey, medium light grey/light brownish grey, locally haematitic red, moderate reddish brown, medium grey/greenish grey, light grey, moderately abundant pale yellowish brown/very pale orange, locally waxy, non-calcareous, subplaty. Rare limestone, greyish orange-dark yellowish orange, cryptocrystalline-finely sucrosic. Rare sphaerosiderite nodules, light brown-brown. Rare coal fragments, black.
Age: Indet. Probably lower Wealden / Upper Purbeck facies

2630 ft & 2676 ft MD

Palynology

Non- marine. Predominantly land derived spores and pollen. Freshwater algae. No marine elements. Lower Weald / Purbeck, but prominent “flimsy amorphous kerogen” strongly favours Purbeck facies.

The Kimmeridgian section covered Ammonite zones from *Rotunda - Pectinatus* at the top to *Baylei* at the base.

12. LOGGING WHILE DRILLING

Target provided logging-while-drilling services including near-bit (approx. 40 ft offset) gamma ray and directional data.

This was of great value and the gamma ray was found to correlate well with the offset wells. Together with the chemostrat data, stratigraphic correlation was of high accuracy.

13. CORING

13 intervals of core were cut in total, as described below.

Twelve cores in succession were cut from 4018.8 ft to 4511.3 ft MD totalling 492.5 ft, which encompassed KL4 and KL3. A further core was cut in the KL2 from 4719 ft to 4780 ft MD. This further 61 ft made a total of 554.06 ft cut in total and 552 ft recovered, representing a total recovery of 99.63%.

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CB1

CB#1, 8 ½” CorePro MCP580 Core Bit (s/n 1607, TFA: 1.93) was picked up with the following assembly: Core Barrel, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

The coring assembly was run in the hole to 3163 ft where it stood up. The Kelly was picked up and the well circulated prior to running in the hole down to bottom at 3471 ft (4018.3 ft corrected pipe tally). At this point a bottoms up was circulated and coring commenced.

Core #1 was cut from 4018.24 ft to 4035.53 ft, 17.3 ft cut and 15.5 ft recovered, 89.6%.

The ROP decreased to 1.4 ft/hr after 4030 ft and it was suspected that the core had jammed off. ROP ranged from 1.4 ft/hr to 28.8 ft/hr, averaging 4.8 ft/hr.

Background gas was 0.08%. Maximum gas was 0.19% at 4018 ft: C1: 1677 ppm, C2: 43 ppm, C3: 24 ppm, iC4: 2 ppm, nC4: 4 ppm, iC5: 0 ppm, nC5: 0.

CB2

CB#2, 8 ½” CorePro MCP582 Core Bit (s/n VG0011081, TFA: 1.68) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #2 was cut from 4035.53 ft to 4065.20 ft, 29.7 ft cut and 32.3 ft recovered, 108.9%.

ROP ranged from 1.1 ft/hr to 41.6 ft/hr, averaging 7.7 ft/hr.

Background gas was 0.08%. Maximum gas was 0.11% at 4036 ft: C1: 843 ppm, C2: 37 ppm, C3: 28 ppm, iC4: 6 ppm, nC4: 10 ppm, iC5: 0 ppm, nC5: 0.

CB2RR1

CB#2RR1, 8 ½” CorePro MCP582 Core Bit (s/n VG0011081, TFA: 1.68) was picked up with the following assembly: Core Barrel (60 ft), X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #3 was cut from 4062.20 ft to 4125.80 ft, 60.6 ft cut and 60 ft recovered, 99.0%.

ROP ranged from 0.7 ft/hr to 48.3 ft/hr, averaging 14.8 ft/hr.

Background gas was 0.18%. Maximum gas was 0.38% at 4117 ft: C1: 3344 ppm, C2: 143 ppm, C3: 50 ppm, iC4: 6 ppm, nC4: 9 ppm, iC5: 0 ppm, nC5: 0.

CB2RR2

CB#2RR2, 8 ½” CorePro MCP582 Core Bit (s/n VG0011081, TFA: 1.68) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #4 was cut from 4125.80 ft to 4188.0 ft, 62.2 ft cut and 62.3 ft recovered, 100.2%.

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ROP ranged from 2.1 ft/hr to 37.4 ft/hr, averaging 14.8 ft/hr.

Background gas was 0.18%. Maximum gas was 0.26% at 4131 ft: C1: 2251 ppm, C2: 93 ppm, C3: 43 ppm, iC4: 3 ppm, nC4: 6 ppm, iC5: 0 ppm, nC5: 0.

CB3

CB#3, 8 ½” CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.68) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #5 was cut from 4188.0 ft to 4254.0 ft, 66 ft cut and 66.5 ft recovered, 100.8%.

ROP ranged from 1.3 ft/hr to 50.2 ft/hr, averaging 8.1 ft/hr.

Background gas was 0.08%. Maximum gas was 0.11% at 4206 ft: C1: 876 ppm, C2: 50 ppm, C3: 30 ppm, iC4: 4 ppm, nC4: 13 ppm, iC5: 0 ppm, nC5: 0.

CB3RR1

CB#3RR1, 8 ½” CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.68) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #6 was cut from 4254.0 ft to 4290.6 ft, 36.6 ft cut and 36.6 ft recovered, 100%.

ROP ranged from 1.4 ft/hr to 34.8 ft/hr, averaging 15.9 ft/hr.

Background gas was 0.16%. Maximum gas was 0.36% at 4289 ft: C1: 3297 ppm, C2: 65 ppm, C3: 29 ppm, iC4: 2 ppm, nC4: 13 ppm, iC5: 0 ppm, nC5: 0.

CB3RR2

CB#3RR2, 8 ½” CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.68) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #7 was cut from 4290.6 ft to 4338.0 ft, 47.4 ft cut and 46.5 ft recovered, 98.1%.

ROP ranged from 1.2 ft/hr to 48.0 ft/hr, averaging 8.6 ft/hr.

Background gas was 0.16%. Maximum gas was 0.32% at 4290 ft: C1: 2967 ppm, C2: 62 ppm, C3: 23 ppm, iC4: 1 ppm, nC4: 9 ppm, iC5: 0 ppm, nC5: 0.

CB3RR3

CB#3RR3, 8 ½” CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.68) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #8 was cut from 4338.0 ft to 4348.0 ft, 10.0 ft cut and 9.0 ft recovered, 90.0%.

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ROP ranged from 1.5 ft/hr to 40.3 ft/hr, averaging 2.6 ft/hr.

Background gas was 0.06%. Maximum gas was 0.08% at 4339 ft: C1: 716 ppm, C2: 25 ppm, C3: 21 ppm, iC4: 1 ppm, nC4: 4 ppm, iC5: 0 ppm, nC5: 0.

CB4

CB#4, 8 ½” CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.81) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #9 was cut from 4348.0 ft to 4369.0 ft, 21.0 ft cut and 22.7 ft recovered, 108.1%.

ROP ranged from 1.5 ft/hr to 40.1 ft/hr, averaging 16.2 ft/hr.

Background gas was 0.09%. Maximum gas was 0.12% at 4357 ft: C1: 1055 ppm, C2: 30 ppm, C3: 18 ppm, iC4: 4 ppm, nC4: 7 ppm, iC5: 0 ppm, nC5: 0.

CB4RR1

CB#4RR1, 8 ½” CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.81) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #10 was cut from 4369.0 ft to 4417.35 ft, 48.35 ft cut and 49.4 ft recovered, 102.2%.

The middle barrel of the core from 4376.3 ft to 4396.3 ft was jammed and could not be opened due to the core swelling, consequently the top of the limestone could not be determined.

ROP ranged from 1.1 ft/hr to 31.1 ft/hr, averaging 7.2 ft/hr.

Background gas was 0.05%. Maximum gas was 0.09% at 4416 ft: C1: 707 ppm, C2: 59 ppm, C3: 23 ppm, iC4: 1 ppm, nC4: 7 ppm, iC5: 0 ppm, nC5: 0.

CB4RR2

CB#4RR2, 8 ½” CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.81) was picked up with the following assembly: Core Barrel, X/O, 2 x 6 ½” Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½” Drill Collar, X/O, 3 x 5” HWDP, Jar, 5 x 5” HWDP, X/O and 4 ½” drill pipe to surface.

Core #11 was cut from 4417.35 ft to 4443.3 ft, 25.95 ft cut and 25.4 ft recovered, 97.9%.

While cutting core #11 at 4420 ft 30 bbl/hr losses were observed which gradually increased to 150 bbl/hr by 4430 ft. The well was then flow checked and static losses were observed of 25-30 bbl/hr.

At this point the core was broken and the well was circulated off bottom at 170 gpm / 250 psi and 20 rpm while concurrently building an LCM pill. A 25 bbl LCM calcium carbonate pill was spotted and displaced with 60 bbl 9.6 ppg mud and left to soak as the string was being reciprocated from 4409 ft to 4378 ft. The well was flow checked and showed a 1 bbl/hr static loss. Circulation was then established at 140 gpm / 300 psi and the flow was then increased to 320 gpm / 450 psi. Dynamic losses were established at 10 bbl/hr.

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Coring continued with Core #11 to a depth of 4443.3 ft where the rate of penetration decreased from 13.4 ft/hr to 0.5 ft/hr. At this point a 22 bbl LCM pill was spotted and displaced with 32 bbl 10.2 ppg mud. A flow check was then carried out and showed 10 bbl/hr losses decreasing to 4 bbl/hr. After racking back the Kelly and two pup joints a further flow check was performed showing a 7 bbl/hr gain. It was decided to pull back 5 more stands and a further flow check showed that the gains had decreased to 1.5 bbl/hr.

The coring assembly was rerun to bottom and the well flow checked and this time it showed a static loss of 1 bbl/hr. At this point circulation was established and dynamic losses of 6-8 bbl/hr were observed. Another flow check was performed showing 1-2 bbl/hr gain and the string was then pulled out to surface.

ROP ranged from 1.1 ft/hr to 57.8 ft/hr, averaging 6.2 ft/hr.

Background gas was 0.07%. Maximum gas was 0.15% at 4437.5 ft: C1: 1187 ppm, C2: 84 ppm, C3: 32 ppm, iC4: 6 ppm, nC4: 11 ppm, iC5: 0 ppm, nC5: 0.

CB4RR3

CB#4RR3, 8 ½" CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.81) was picked up with the following assembly: Core Barrel (80ft), X/O, 2 x 6 ½" Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½" Drill Collar, X/O, 3 x 5" HWDP, Jar, 5 x 5" HWDP, X/O and 4 ½" drill pipe to surface.

The coring assembly was run in the hole to 4369 ft where the mud was conditioned while adding LCM (safe Carb) at 5 lbs/bbl. Initial losses of 20 bbl/hr were observed rising to 50 bbl/hr and then reducing to 8 bbl/hr. Losses reduced to 0 bbl/hr by 4511.3 ft. A flow check was carried out and the well was observed to be static. After pumping a 25 bbl trip slug the coring assembly was pulled to surface and core # 12 was recovered.

Core #12 was cut from 4443.3 ft to 4511.3 ft, 68.0 ft cut and 64.8 ft recovered, 95.3%.

ROP ranged from 1.5 ft/hr to 49.4 ft/hr, averaging 12.6 ft/hr.

Background gas was 0.07%. Maximum gas was 0.11% at 4508 ft: C1: 923 ppm, C2: 37 ppm, C3: 25 ppm, iC4: 4 ppm, nC4: 8 ppm, iC5: 0 ppm, nC5: 0.

CB4RR4

CB#4RR4, 8 ½" CorePro MCP582 Core Bit (s/n UD143003, TFA: 1.81) was picked up with the following assembly: Core Barrel (80 ft), X/O, 2 x 6 ½" Drill Collar, X/O, Stabiliser, X/O, 4 x 6 ½" Drill Collar, X/O, 3 x 5" HWDP, Jar, 5 x 5" HWDP, X/O and 4 ½" drill pipe to surface.

Core #13 was cut from 4719.0 ft to 4780.0 ft, 61.0 ft cut and 61.0 ft recovered, 100%.

During core #13 losses were experienced from 4778 ft, starting from 30 bbl/hr and rapidly increasing to 150 bbl/hr. The string was reciprocated from 4780 ft to 4712 ft while an LCM pill was being mixed. A 25 bbl Calcium Carbonate LCM pill was spotted. A flow check was then performed and a 2 bbl/hr loss rate recorded. A wiper trip was performed to 4255 ft. At this depth the well was circulated at 225 gpm / 500 psi and the string reciprocated from 4255 ft to 4224 ft. The string was then run back to 4683 ft and the well was circulated again at 155 gpm / 300 psi / 20 rpm while reciprocating the string from 4721 ft to 4652.4 ft. The pumps were slowly staged to 420 gpm and the observed losses were 30-40 bbl/hr. A 25

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bbl LCM slug was pumped and a flow check performed showing the gain of 3 bbl/hr reducing to 1 bbl/hr. The string was pulled out to the shoe where the well was flow checked (static) and then pulled out to surface.

ROP ranged from 3.3 ft/hr to 45.7 ft/hr, averaging 14.9 ft/hr

Background gas was 0.21%. Maximum gas was 0.27% at 4750 ft: C1: 2322 ppm, C2: 81 ppm, C3: 54 ppm, iC4: 6 ppm, nC4: 14 ppm, iC5: 0 ppm, nC5: 0.

Cores were examined on site, chips were taken from the ends of each core for Chemostrat analysis and correlation. Cores were then cut, packaged and sent to COREX in Aberdeen for further analysis. A slabbed section was provided to the British Geological Survey for their records.

14. WIRELINE LOGGING 12.25 INCH OPEN HOLE

The Schlumberger wireline equipment was rigged up and the following logging run was performed:

Logging Run 1: PEX-HRLA-SS-GR-LEHQT

Max hole deviation was over 54 degrees.

The logging equipment stood up at 1691 ft and several unsuccessful attempts were made to pass the obstruction. The decision was made to pull out of hole and the hole was logged up from 1691 ft to the 13.3/8" casing shoe at 853 ft. The logging tools were pulled to surface and the Schlumberger equipment was rigged down and moved off site.

15. WIRELINE LOGGING 8.5 INCH OPEN HOLE

Due to the hole angle and hole condition post coring a large number of ledges & washouts were recognised and it was clear that wireline logging to TD would be challenging. It was therefore decided to prioritise certain logs and to build logging assemblies that would maximise the chances of reaching TD (e.g maximise weight, minimise caliper arms etc). This was only partially successful.

It should be noted that in the side-track well BB-1z tubing conveyed logging tools were used and worked well to TD.

RUN #2 FMI- SONIC

After clearing the rig floor Schlumberger Wireline Logging was rigged up and logging run # 2 FMI-Sonic was run in the hole. This stood up at 3173 ft and 3193 ft, and was unable to pass through 3695 ft. After several attempts at working the string the tool was pulled out of the hole and reconfigured for run #3.

RUN #3 PEX-HRLT-UBI

After installing the sources run #3 PEX-HRLT-UBI was run in the hole but stood up at 3060 ft. After trying to break through the ledges the decision was taken to pull out of the hole and remove the sources and lay down the tools. It was found that three of the centralising blades and a retainer clip were missing from the Schlumberger slipover ring.

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RUN #4 NEXT-PEX-CMR & CMR-HNGS (no sources)-PEX-NEXT

Run#4 NEXT-PEX-CMR was configured and the decision was taken that the wireline was to be rigged down and a clean out run was to be carried out.

Run #4 CMR-HNGS (no sources)-PEX-NEXT

This was run in the hole and hung up in the casing at 2168ft. The assembly weighed in at 1980 lbs approx. The permanent magnet on the CMR tool was believed to be energised against the casing at a dogleg at this point in the tangent section.

RUN #5 NEXT-PEX-HNGS (NO SOURCES)

This assembly weighed approx. 1400 lbs and was run in hole to bottom without incident. The tool was run to 5790 ft and the well was logged up to 5500 ft. The assembly was re-run to 5785 ft and the section was logged back to the shoe for the main pass at approx. 400 ft/hr to accommodate the tool run.

RUN #6 NEXT-PEX-HNGS (WITH SOURCES)

The sources were installed and the tools were run in to 5754 ft and logged up doing a repeat section from 5754 ft to 5560 ft. The main pass was from 5754 ft to the shoe. The assembly was then pulled out of hole without incident.

RUN #7 FMI-HRLA

The tool was run to 5763 ft and logged up to 5725.5 ft where it became stuck during the repeat section. The string was worked keeping 6300 lbs of tension on the line and became free. The main pass was run from 5700 ft to the shoe with tight spots at 4268 ft, becoming briefly stuck with 6600 lbs line tension. At this point the caliper arms were retracted and the tool pulled free. A further repeat was carried out from 3550 ft to 4240 ft due to poor image quality.

RUN #8 Sonic PPC-MAST-HGNS (string weight 1085 lbs)

The tool string was run in the well and experienced some difficulties going through the Purbeck section. The tools hung up at 3924 ft, 3961 ft and became stuck at 4040 ft. The decision was taken to pull 6585 lbs on the line and 5045 lbs on the head. The tools broke free and it was decided to come out of the hole, logging on the way out to the shoe.

RUN #9 RR1 Sonic PPC-MAST-HGNS (string weight 1085 lbs)

Schlumberger was rigged up and Run #9 RR1 was made up
Run #9RR1 Sonic PPC-MAST-HGNS (string weight 1085 lb)

The tools were made up and run in the well carrying out all tests at the shoe as required. The assembly was run in the hole but was unable to get past 2888 ft and was pulled out of the hole. #9 RR1 was laid out and Schlumberger reconfigured the tool string.

RUN #10 GR-CMR

Run # 8 GR- CMR was made up and run in the hole

The tool string was unable to pass 2840 ft and was pulled out of the hole. Schlumberger was rigged down.

RUN #11 - CCL LOG

The wireline logging unit was rigged up and the tool string with CCL run in hole to 2650 ft. The CCL log was then performed from 2650 ft and recovered to surface. The CCL data was downloaded and the rig rigged up for running the bridge plug.

NB post logging it became obvious that although the cement job was passed as “good – fair” it was in fact poor. One of the post-well recommendations is to source an expert to look at these logs in future.

Broadford Bridge-1					
Schlumberger Wireline Logs					
Depth ft	Run#	Hole Size	Tools	Interval ft	Comments
2676	1	12.25"	PEX-HRLT-CAL	1690-853ft	Unable to get below 1690ft
5850	2	8.5"	FMI-SONIC		Unable to get below 3695ft
5850	3	8.5"	PEX-HRLT-UBI		Unable to get below 3060ft. Lost 3 leaves
5850	4	8.5"	CMR-HNGS-PEX-NEXT		Unable to get down through casing
5850	5	8.5"	NEXT-PEX-HNGS	5781.5-2670ft	Run without sources installed
5850	6	8.5"	NEXT-PEX-HNGS	5754.59-2670ft	Run with sources installed
5850	7	8.5"	FMI-HRLA	5700-2670ft	Run without offsets
5850	8	8.5"	MAST-HNGS		Unable to get past 4040ft
5850	9	8.5"	MAST HNGS		Unable to get past 2888ft
5850	10	8.5"	CMR-GR		Unable to get past 2840ft
5850	11	8.5"	CCL	2650 – 0ft	

Table 3: Well Logging Summary

16. SEISMIC WELL TIE

Due to hole conditions it was impossible to acquire a full set of sonic logs or to carry out the planned VSP on either the original well or the side-track.

Schlumberger carried out a sonic analysis and seismic well tie analysis on the side-track and a good match was achieved. Schlumberger stated that most picks on the Synthetic Seismogram show faster interval TWTs /velocities when compared to corresponding events on the surface seismic and that this may be partly due to dispersion/anelastic attenuation effects, but it is likely that the high angle sonic ray paths through the shale-rich formations are also faster due to TI anisotropy effects.

A copy of the synthetic is shown below:

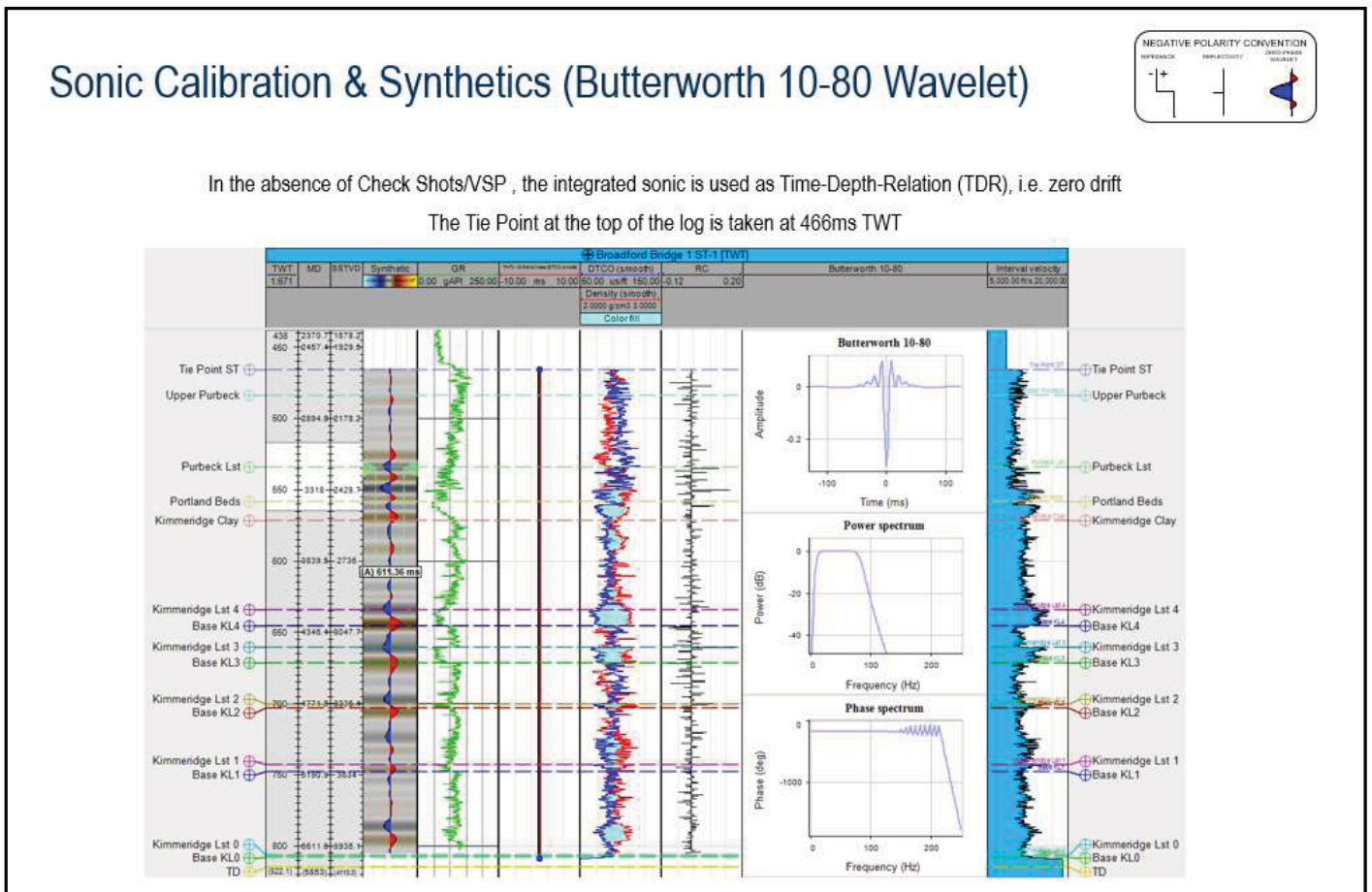


Figure 8: Sonic Calibration and Synthetics

17. MUD REPORTS

Date	Depth (ft)	MW	Vis	PV	YP	Gels	FC	Sand	ES	Chlorides	Water	Sol	Corr Sol	pH
29/05/17	72	8.50	53	14	25	6/12/-	1	Tr		1500	98		2	9.0
30/05/17	271	9.00	63	15	34	10/20/-	1	Tr		1500	97		3	9.0
31/05/17	576	9.00	53	14	26	8/16/-	1	Tr		1500	97		3	9.0
01/06/17	855	9.70	56	14	31	8/16/-	1	Tr		1800	96		4	9.0
02/06/17	855.00	9.80	52	18	30	9/18/-	1	Tr		1600	96		4	8.5
03/06/17	855.00	9.80	50	19	29	9/18/-	1	Tr		1600	96		4	8.0
04/06/17	855	8.80	46	13	20	5/8/-	1	Tr		1600	98		2	9.5
05/06/17	855	8.80	46	9	21	5/8/-	1	Tr		2700	98		2	9.5
06/06/17	1276	9.10	46	13	25	7/14/-	1	Tr		3500	98		2	9.5
07/06/17	1680	9.30	68	15	40	14/28/-	1	0.25		3700	95		5	9.0
08/06/17	1906	9.50	53	15	35	11/22/-	1	0.25		3700	94.5		5.5	8.5
09/06/17	2253	9.60	54	16	33	11/22/-	1	0.25		3600	95		5	8.5
10/06/17	2676	9.60	52	16	23	9/20/-	1	0.25		3800	94.5		5.5	8.5
11/06/17	2676.00	9.60	52	16	23	9/20/-	1	0.25		3800	94.5		5.5	8.5
12/06/17	2676.00	10.00	48	15	14	9/20/-	1	0.25		3800	94		6	8.5
13/06/17	2676.00	10.00	48	15	14	9/20/-	1	0.25		3800	94		6	8.5
14/06/17	2676	10.00	48	15	14	9/20/-	1	0.25		3800	94		6	8.5
15/06/17	2784	10.00	42	11	15	4/8/-	1	Tr		185000	86		3	11.0
16/06/17	3314	10.10	47	14	24	8/14/-	1	0.25		180000	86		3	9.6
17/06/17	3688	10.30	46	17	24	8/12/-	1	0.25		182000	84.5		4.5	9.8
18/06/17	4018.5	10.40	47	19	26	7/12/-	1	0.25		180000	84.5		4.5	9.4
19/06/17	4018.5	10.50	45	18	20	7/12/-	1	0.25		180000	84.5		4.5	8.8
20/06/17	4035.53	10.30	46	18	20	5/9/-	1	0.25		180000	84.5		4.5	9.5
21/06/17	4065.2	10.40	46	18	20	5/9/-	1	0.28		180000	84.5		4.5	9.2
22/06/17	4125.8	10.00	47	21	20	5/9/-	1	0.25		178000	85		4.5	9.2
23/06/17	4188	10.50	41	21	20	5/9/-	1	0.28		178000	85		4.5	10.0
24/06/17	4254	10.50	47	21	20	5/8/-	1	0.25		180000	85		4.5	10.0
25/06/17	4290.6	10.50	47	20	20	4/7/-	1	0.25		180000	85		4.5	9.4
26/06/17	4328	10.50	47	19	21	4/7/-	1	0.25		180000	85		4.5	10.0
27/06/17	4348.00	10.50	46	19	20	4/6/-	1	0.25		180000	85		4.5	10.0
28/06/17	4369.00	10.50	46	19	20	4/6/-	1	0.25		180000	85		4.5	9.8
29/06/17	4417.35	10.50	46	19	19	4/6/-	1	0.25		180000	85.5		4	10.0
30/06/17	4443.30	10.10	44	15	16	3/5/-	1	0.25		174000	86.5		3.5	9.4
01/07/17	4495.00	10.10	44	44	17	4/6/-	1	0.25		165000	87		3.5	9.2
02/07/17	4511.00	10.10	49	14	20	6/9/-	1	0.25		162000	87		3.5	9.0
03/07/17	4719.00	10.10	50	17	29	7/10/-	1	0.25		164000	87		3.5	9.6
04/07/17	4780.00	10.10	50	21	23	6/10/-	1	0.25		164000	87		3.5	10.2
05/07/17	4780.00	10.10	52	21	23	6/10/-	1	0.25		164000	87		3.5	10.2
06/07/17	5145.00	10.10	45	18	20	6/10/-	1	0.25		160000	87		3.5	9.6
07/07/17	5403.00	10.10	47	17	25	6/9/-	1	0.25		160000	86.5		4.0	9.8
08/07/17	5608.00	10.10	46	18	19	6/9/-	1	0.25		160000	86.5		4	9.8
09/07/17	5850.00	10.10	50	18	23	6/9/-	1	0.25		160000	86.5		3.5	8.3
10/07/17	5850.00	10.10	50	18	23	6/9/-	1	0.25		160000	86.5		3.5	8.3
11/07/17	5850.00	10.10	50	18	23	6/9/-	1	Tr		170000	86.5		3.5	8.2
12/07/17	5850.00	10.10	50	18	23	6/9/-	1	Tr		170000	86.5		3.5	8.2
13/07/17	5850.00	10.10	47	18	23	6/9/-	1	Tr		164000	86.5		3.5	8.2
14/07/17	5850.00	10.10	47	18	23	6/9/-	1	Tr		16800	86.5		3.5	8.2
15/07/17	5850.00	10.10	47	18	19	6/9/-	1	Tr		17500	86.5		3.5	9.2
16/07/17	5850.00	10.10	47	18	19	6/9/-	1	Tr		17500	86.5		3.5	9.2
17/07/17	5850.00	10.10	47	18	19	6/9/-	1	Tr		17500	86.5		3.5	9.2
18/07/17	5850.00	10.10	47	18	19	4/6/-	1	Tr		18000	85.5		4.5	10.6
19/07/17	5850.00	10.10	47	18	19	4/6/-	1	Tr		18000	85.5		4.5	10.6

18. SURVEYS

	MD	Inc	Azi	TVD
	Ft	°	°	Ft
	0.00	0.00	0.00	0.00
1	180.90	0.31	226.08	180.90
2	212.50	0.23	168.21	212.50
3	240.00	0.08	86.12	240.00
4	273.30	0.43	23.94	273.30
5	299.60	0.71	31.21	299.60
6	333.10	1.16	30.57	333.09
7	363.90	1.81	28.32	363.88
8	397.70	2.47	30.64	397.66
9	427.20	3.11	26.75	427.12
10	488.70	4.39	26.65	488.49
11	518.30	5.05	25.89	517.99
12	547.20	5.77	23.95	546.76
13	580.10	6.59	25.37	579.47
14	610.80	7.22	23.01	609.95
15	642.00	7.65	24.34	640.88
16	673.40	8.21	25.50	671.98
17	702.50	8.49	25.93	700.78
18	733.60	9.23	27.55	731.50
19	764.40	9.52	26.52	761.89
20	795.00	10.04	27.39	792.05
21	897.30	11.51	26.91	892.54
22	928.20	12.33	26.69	922.77
23	957.30	13.48	26.82	951.14
24	988.80	14.79	27.81	981.69
25	1021.60	16.18	28.42	1013.29
26	1050.30	17.42	28.20	1040.77
27	1081.60	18.96	26.40	1070.50
28	1109.90	20.59	25.71	1097.13
29	1145.50	22.50	25.72	1130.24
30	1176.50	24.10	25.87	1158.72
31	1204.00	25.55	25.67	1183.67
32	1234.50	27.13	25.49	1211.01
33	1266.80	29.01	25.39	1239.51
34	1295.80	30.73	25.45	1264.65
35	1326.20	32.29	25.46	1290.57
36	1358.10	34.01	25.80	1317.28
37	1387.80	34.83	27.02	1341.78
38	1420.40	36.31	27.03	1368.29
39	1450.40	37.59	26.92	1392.27
40	1480.50	39.02	26.91	1415.89
41	1511.40	40.24	27.65	1439.68
42	1542.30	41.54	27.71	1463.04
43	1573.90	42.83	28.03	1486.46
44	1600.70	43.90	28.14	1505.94
45	1634.30	45.14	28.05	1529.90

	MD	Inc	Azi	TVD
	Ft	°	°	Ft
46	1663.30	46.11	28.32	1550.18
47	1695.10	47.15	29.00	1572.02
48	1725.90	48.33	28.41	1592.73
49	1756.20	49.69	28.24	1612.60
50	1787.40	51.22	27.58	1632.47
51	1818.40	52.61	28.01	1651.59
52	1851.20	53.80	27.97	1671.23
53	1879.00	54.32	27.18	1687.55
54	1911.50	54.67	27.06	1706.43
55	1942.70	54.43	27.23	1724.52
56	1973.30	54.11	27.79	1742.39
57	2004.10	53.93	27.42	1760.49
58	2034.20	53.92	27.68	1778.21
59	2064.10	54.41	27.17	1795.71
60	2098.50	54.70	26.83	1815.66
61	2128.70	54.56	27.19	1833.15
62	2160.10	54.32	26.84	1851.41
63	2191.30	54.09	27.21	1869.66
64	2222.20	53.77	27.16	1887.85
65	2251.60	53.56	27.41	1905.27
66	2282.90	53.19	26.33	1923.94
67	2313.00	52.96	25.42	1942.02
68	2345.20	53.07	25.04	1961.40
69	2374.70	53.26	25.41	1979.08
70	2404.30	53.72	25.44	1996.69
71	2433.90	53.97	25.63	2014.16
72	2465.40	54.14	25.89	2032.65
73	2496.00	54.23	26.85	2050.55
74	2528.10	54.38	26.86	2069.28
75	2557.30	54.17	27.08	2086.33
76	2588.30	53.93	25.90	2104.53
77	2619.10	53.59	27.02	2122.74
78	2733.90	53.83	26.37	2190.69
79	2765.00	53.46	24.77	2209.12
80	2795.00	53.19	25.33	2227.04
81	2825.90	52.85	25.73	2245.63
82	2856.40	52.66	25.81	2264.09
83	2886.90	53.13	26.23	2282.49
84	2917.90	53.42	25.96	2301.03
85	2980.40	52.93	25.60	2338.49
86	3011.50	52.56	26.33	2357.31
87	3042.80	52.43	26.21	2376.37
88	3073.10	52.87	27.24	2394.75
89	3104.10	52.74	27.39	2413.49
90	3134.90	53.02	27.96	2432.08

	MD	Inc	Azi	TVD
	Ft	°	°	Ft
91	3165.60	52.83	28.03	2450.59
92	3196.70	53.71	28.47	2469.19
93	3226.30	53.82	28.28	2486.68
94	3257.50	53.87	27.96	2505.09
95	3287.90	53.41	28.32	2523.11
96	3349.60	53.70	27.36	2559.77
97	3381.10	53.75	28.01	2578.41
98	3444.70	53.44	27.52	2616.15
99	3473.00	53.07	28.01	2633.08
100	3503.60	53.21	26.88	2651.44
101	3565.20	53.43	26.66	2688.23
102	3625.90	54.40	24.85	2723.99
103	3657.20	53.84	25.19	2742.33
104	3686.90	53.57	25.32	2759.91
105	3717.20	53.72	24.56	2777.87
106	3747.70	54.26	23.92	2795.81
107	3779.20	53.91	24.42	2814.28
108	3810.60	53.60	24.78	2832.85
109	3842.00	53.93	24.25	2851.41
110	3872.30	54.49	23.91	2869.13
111	3903.00	54.34	23.89	2886.99
112	3933.30	54.25	23.33	2904.68
113	3964.00	53.86	23.94	2922.70
114	4359.90	49.16	22.67	3169.04
115	4422.70	48.81	22.68	3210.25
116	4484.90	48.50	22.13	3251.34
117	4540.40	47.93	22.11	3288.32
118	4602.90	46.98	22.78	3330.58
119	4664.00	46.13	23.06	3372.59
120	4756.30	45.44	22.31	3436.96
121	4817.60	44.76	22.26	3480.23
122	4881.00	43.86	22.48	3525.60
123	4940.90	42.98	22.60	3569.10
124	5003.00	42.37	22.74	3614.76
125	5063.60	41.80	22.28	3659.73
126	5123.70	41.20	21.66	3704.75
127	5188.60	40.66	21.81	3753.78
128	5246.70	40.00	21.53	3798.07
129	5308.90	39.44	21.51	3845.91
130	5401.40	38.53	20.82	3917.81
131	5465.50	37.85	21.36	3968.19
132	5527.10	37.36	21.21	4017.00
133	5586.90	36.73	21.53	4064.73
134	5680.70	36.05	21.64	4140.23
135	5740.40	35.77	21.38	4188.59
136	5796.10	35.22	21.40	4233.94
137	5850.00	34.83	21.35	4278.07

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19. SAMPLES

Cuttings were sampled every 30 ft to 3200 ft MD approx. and then at 10 ft intervals below this.

Two sets of samples were stored by KOGIL and a third set was provided to OGA/British Geological Survey. Each set consisted on one set of wet and one set of dry cuttings samples.

In addition, geochemical samples were taken every 10ft and placed in sealed cans.

Mud samples were taken at a minimum of every 500ft and, in practise, more often.

All KOGIL samples were shipped to store at ALS Guildford at the end of operations. Details are available on a spreadsheet 170720 ALSST_17125_Broadford Bridge-1_DB_LIST.xlsx provided by ALS.

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