

# UK Central Graben: Database of Interpreted Overpressure and Gradients

Well name	KB (ft)	Water Dept h (ft)	Formation(s)	Group(s)	Age(s)	Plot age	TVDss (ft)	TVDss (m)	Pressure (bar)	Pressure (psi)	Overpressure psi (Hyd = 0.445psi/ft)	Overpressure BAR (Hyd = 0.445psi/ft)	Pressure EMW SG rel TVDlkh	Pressure EMW ppg rel TVDlkh	Tool	Gradient Fit	Fluid Gradient (psi/ft)	Fluid Gradient (bar/m)	Fluid Type	Water OP reliability	OP Label (psi)	OP Label (bar)
	85	305	unnamed	Unknown	Jurassic (Middle or Upper)	JURASSIC	11654	3552.194064	598.326405	8678	<b>3477.20</b>	239.74	1.68	13.98	RFT	Single	n/a	n/a	Water	Uncertain	<b>3477</b>	<b>240</b>
	85	305	unnamed	Unknown	Jurassic (Middle or Upper)	JURASSIC	11761	3584.70708	603.290625	8750	<b>3501.73</b>	241.44	1.68	13.97	RFT	Single	n/a	n/a	Water	Uncertain	<b>3502</b>	<b>241</b>
	85	337	Kimmeridgian Sandstone	Humber	Upper Jurassic	JURASSIC	8730	2660.904	331.085895	4802	<b>902.46</b>	62.22	1.23	10.23	RFT	Good	0.448	0.1013	Water	Good	<b>902</b>	<b>62</b>
	85	337	unnamed	Unnamed	Mid Jurassic	JURASSIC	9368	2855.3664	352.6664625	5115	<b>931.55</b>	64.23	1.22	10.18	RFT	Fair	0.4978	0.1126	Water	Good	<b>931</b>	<b>64</b>
	70	298	Fulmar	Humber	Upper Jurassic	JURASSIC	13679	4169.3592	822.1969375	11925	<b>5823.16</b>	401.43	1.98	16.48	RFT	Fair	0.4904	0.1109	Water	Fair	<b>5823</b>	<b>401</b>
	70	298	unnamed	Fladen	Mid Jurassic	JURASSIC	14895	4539.996	869.3590275	12609	<b>5966.04</b>	411.34	1.92	16.03	RFT	Single	n/a	n/a	Water	Uncertain	<b>5966</b>	<b>411</b>
	70	298	unnamed	Fladen	Mid Jurassic	JURASSIC	15605	4756.404	897.4896075	13017	<b>6058.09</b>	417.69	1.90	15.81	RFT	Single	n/a	n/a	Water	Uncertain	<b>6058</b>	<b>418</b>
	85	291	Fulmar	Humber	Upper Jurassic	JURASSIC	10069	3069.0312	382.9688888	5554.5	<b>1059.11</b>	73.02	1.24	10.31	RFT	2 points	0.4714	0.1066	Water	Good	<b>1059</b>	<b>73</b>
	90	320	Hugin	Fladen	Mid Jurassic	JURASSIC	12152	3704.045424	637.35069	9244	<b>3821.50</b>	263.48	1.71	14.27	FMT	Fair	0.5156	0.1166	Water	Good	<b>3822</b>	<b>263</b>
	90	320	Hugin	Fladen	Mid Jurassic	JURASSIC	12421	3786.009192	665.4123225	9651	<b>4108.84</b>	283.29	1.75	14.59	FMT	Single	n/a	n/a	Water	Uncertain	<b>4109</b>	<b>283</b>
	90	320	Pentland	Fladen	Mid Jurassic	JURASSIC	12686	3866.790336	707.1945075	10257	<b>4596.90</b>	316.94	1.82	15.19	FMT	Single	n/a	n/a	Water	Uncertain	<b>4597</b>	<b>317</b>
	85	305	Fulmar	Humber	Upper Jurassic	JURASSIC	10883	3317.083536	507.012336	7353.6	<b>2496.06</b>	172.10	1.52	12.66	RFT	Fair	0.4789	0.1083	Water	Good	<b>2496</b>	<b>172</b>
	85	305	Pentland	Fladen	Mid Jurassic	JURASSIC	11206	3415.518696	517.5819878	7506.9	<b>2505.64</b>	172.76	1.51	12.56	RFT	Fair	0.4789	0.1083	Water	Good	<b>2506</b>	<b>173</b>
	86	293	Fulmar	Humber	Upper Jurassic	JURASSIC	10214	3113.157096	481.2638921	6980.15	<b>2420.33</b>	166.88	1.53	12.77	RFT	Good	0.4912	0.1111	Water	Good	<b>2420</b>	<b>167</b>
	86	297	Fulmar	Humber	Upper Jurassic	JURASSIC	10776	3284.454696	502.538	7288.705	<b>2478.80</b>	170.91	1.52	12.66	RFT	Fair	0.4838	0.1094	Water	Good	<b>2479</b>	<b>171</b>
	86	297	Curlew (Pentland)	Fladen	Mid Jurassic	JURASSIC	11111	3386.779104	513.632	7449.61	<b>2490.31</b>	171.70	1.51	12.56	RFT	Fair	0.4838	0.1094	Water	Good	<b>2490</b>	<b>172</b>
	72	304	Pentland	Fladen	Mid Jurassic	JURASSIC	10775	3284.0676	507.7983375	7365	<b>2555.66</b>	176.21	1.54	12.85	RFT	Single	n/a	n/a	Water	Uncertain	<b>2556</b>	<b>176</b>

- 406 overpressures from 193 wells used for overpressure cell analysis (Lower Cretaceous to Permian overpressures).
- Many data types, e.g. pressure, depth, overpressure, age, fluid gradient and type, reliability of gradient and overpressure, fluid contacts.

OP Label (bar)	gradient OWC (ft) TVDSS	gradient GWC (ft) TVDSS	gradient GOC (ft) TVDSS	reported OWC (ft) TVDSS	reported GWC (ft) TVDSS	reported GOC (ft) TVDSS	Depleted?	Field	Completion date	Depletion comments	Notes
<b>240</b>							NO	CURLEW C	03-Oct-77		
<b>241</b>							NO	CURLEW C	03-Oct-77		
<b>62</b>							NO		20-Jun-80		
<b>64</b>							NO		20-Jun-80		
<b>401</b>							NO		15-Nov-83		
<b>411</b>							NO		15-Nov-83		
<b>418</b>							NO		15-Nov-83		
<b>73</b>							NO		22-Jun-92		
<b>263</b>							NO	CURLEW C	27-Oct-87		
<b>283</b>							NO	CURLEW C	27-Oct-87		
<b>317</b>							NO	CURLEW C	27-Oct-87		
<b>172</b>	10883			10883			NO	CURLEW C	13-May-90		
<b>173</b>							NO	CURLEW C	13-May-90		
<b>167</b>							NO	CURLEW C	27-Apr-93		
<b>171</b>							NO	CURLEW C	19-Jun-93		
<b>172</b>							NO	CURLEW C	19-Jun-93		
<b>176</b>							NO	CURLEW C	11-Jun-94		Pentland - various points, no valid gradient. Range taken

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