

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/t)	Overpressure BAR (Hyd = 0.445psi/t)	Pressure EMW SG rel TVDkh	Pressure EMW ppg rel TVDkh	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	538.326405	8678	3477.20	239.74	1.68	13.98	RFT	Single	n/a	n/a	Water	Uncertain	3477	240
	85	305	unnamed	Unknown	Jurassic (Middle or Upper)	JURASSIC	11761	3584.70708	603.290625	8750	3501.73	241.44	1.68	13.97	RFT	Single	n/a	n/a	Water	Uncertain	3502	241
	85	337	Kimmeridgian Sandstone	Humber	Upper Jurassic	JURASSIC	8730	2660.904	331.085895	4802	902.46	62.22	1.23	10.23	RFT	Good	0.448	0.1013	Water	Good	902	62
	85	337	unnamed	Unnamed	Mid Jurassic	JURASSIC	9368	2855.3664	352.6664625	5115	931.55	64.23	1.22	10.18	RFT	Fair	0.4978	0.1126	Water	Good	931	64
	70	298	Fulmar	Humber	Upper Jurassic	JURASSIC	13679	4169.3592	822.1969375	11925	5823.16	401.49	1.98	16.48	RFT	Fair	0.4904	0.1109	Water	Fair	5823	401
	70	298	unnamed	Fladen	Mid Jurassic	JURASSIC	14895	4539.996	869.3590275	12609	5966.04	411.34	1.92	16.03	RFT	Single	n/a	n/a	Water	Uncertain	5966	411
	70	298	unnamed	Fladen	Mid Jurassic	JURASSIC	15605	4756.404	897.4896075	13017	6058.09	417.69	1.90	15.81	RFT	Single	n/a	n/a	Water	Uncertain	6058	418
	85	291	Fulmar	Humber	Upper Jurassic	JURASSIC	10069	3069.0312	382.9688888	5554.5	1059.11	73.02	1.24	10.31	RFT	2 points	0.4714	0.1066	Water	Good	1059	73
	90	320	Hugin	Fladen	Mid Jurassic	JURASSIC	12152	3704.045424	637.35069	9244	3821.50	263.48	1.71	14.27	FMT	Fair	0.5156	0.1166	Water	Good	3822	263
	90	320	Hugin	Fladen	Mid Jurassic	JURASSIC	12421	3786.009192	665.4123225	9651	4108.84	283.29	1.75	14.59	FMT	Single	n/a	n/a	Water	Uncertain	4109	283
	90	320	Pentland	Fladen	Mid Jurassic	JURASSIC	12686	3866.790336	707.1945075	10257	4596.90	316.94	1.82	15.19	FMT	Single	n/a	n/a	Water	Uncertain	4597	317
	85	305	Fulmar	Humber	Upper Jurassic	JURASSIC	10883	3317.083536	507.012336	7353.6	2496.06	172.10	1.52	12.66	RFT	Fair	0.4789	0.1083	Water	Good	2496	172
	85	305	Pentland	Fladen	Mid Jurassic	JURASSIC	11206	3415.518696	517.5819878	7506.9	2505.64	172.76	1.51	12.56	RFT	Fair	0.4789	0.1083	Water	Good	2506	173
	86	293	Fulmar	Humber	Upper Jurassic	JURASSIC	10214	3113.157096	481.2638921	6980.15	2420.33	166.88	1.53	12.77	RFT	Good	0.4912	0.1111	Water	Good	2420	167
	86	297	Fulmar	Humber	Upper Jurassic	JURASSIC	10776	3284.454696	502.538	7288.705	2478.80	170.91	1.52	12.66	RFT	Fair	0.4838	0.1094	Water	Good	2479	171
	86	297	Curlew (Pentland)	Fladen	Mid Jurassic	JURASSIC	11111	3386.779104	513.632	7449.61	2490.31	171.70	1.51	12.56	RFT	Fair	0.4838	0.1094	Water	Good	2490	172
	72	304	Pentland	Fladen	Mid Jurassic	JURASSIC	10775	3284.0676	507.7983375	7365	2555.66	176.21	1.54	12.85	RFT	Single	n/a	n/a	Water	Uncertain	2556	176

- 449 overpressures from 213 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
240							NO	CURLEW C	03-Oct-77		
241							NO	CURLEW C	03-Oct-77		
62							NO		20-Jun-80		
64							NO		20-Jun-80		
401							NO		15-Nov-83		
411							NO		15-Nov-83		
418							NO		15-Nov-83		
73							NO		22-Jun-82		
263							NO	CURLEW C	27-Oct-87		
283							NO	CURLEW C	27-Oct-87		
317							NO	CURLEW C	27-Oct-87		
172	10883			10883			NO	CURLEW C	13-May-90		
173							NO	CURLEW C	13-May-90		
167							NO	CURLEW C	27-Apr-93		
171							NO	CURLEW C	19-Jun-93		
172							NO	CURLEW C	19-Jun-93		
176							NO	CURLEW C	11-Jun-94		Pentland - various points, no valid gradient. Range taken

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