

KIRKLEATHAM No. 1.

SUMMARISED WELL LOG

SCALE 1:10,000

LOCATION LAT. $54^{\circ} 34' 59.5''$ N
LONG. $1^{\circ} 5' 25.5''$ W

Stratigraphy		Depth Drilled ft & m	Graphic Log	Cores Shows	Description	Casing	Tests	Electric Logs	Remarks
QUAT. D. T. F.	JUR.								
	L.R. 421' Blaackie 460'				SHALEs; dark grey, silty or marly, micaceous SHALEs, with LIMESTONE fragments.	114 ^{1/2} ' at 88'			R.T.E. 76 ft. A.O.D.
	Keuper	250			SANDSTONES; dark grey, fine, micaceous.				
		1000			MARLS/SILTSTONES; red hard marl and grey/green siltstones, grading into brown micaceous siltstones.				
	Bunter	500							
	1978'	1148'							
	Saliferous	2000							
	Marls	2187'							
	Top Anhydrite	2231'							
	Up. Salt	2362'							
	Main Anhydrite	2404'							
	Magnesian Limestone	3154'							
CARBONIFEROUS	Carb.	1000							
		1250							
		1500							
		1750							
		2000							
		2250							
		2500							
		2750							
		3000				at 3000'			
		3250							
		3500							
		3750							
		4000							
		4250							
		4500							
		4750							
		5000							
		5250							
		5500							
		5750							
		6000							
		6250							
		6500							
		6750							
		7000							
		7250							
		7500							
		7750							
		8000							
		8250							
		8500							
		8750							
		9000							
		9250							
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		9750							
		10000							
		10250							
		10500							
		10750							
		11000							
		11250							
		11500							
		11750							
		12000							
		12250							
		12500							
		12750							
		13000							
		13250							
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		13750							
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		14750							
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		16000							
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		17750							
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		18750							
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		19750							
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		29250							
		29500							
		29750							
		30000							
		30250							
		30500							
		30750							
		31000							
		31250							
		31500							
		31750							
		32000							
		32250							
		32500							
		32750							
		33000							
		33250							
		33500							
		33750							
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		34250							
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		39500							
		39750							
		40000							
		40250							
		40500							
		40750							
		41000							
		41250							
		41500							
		41750							
		42000							
		42250							
		42500							
		42750							
		43000							
		43250							
		43500							
		43750							
		44000							
		44250							
		44500							
		44750							
		45000							
		45250							
		45500							
		45750							
		46000							
		46250							
		46500							
		46750							
		47000							
		47250							
		47500							
		47750							
		48000							
		48250							
		48500							
		48750							
		49000							
		49250							
		49500							
		49750							
		50000							
		50250							
		50500							

U.K. LANDGEOLOGICAL DATA SHEET

WELL: Kirkleatham No.1

OPERATOR: D'Arcy Exploration Co. Ltd.

LATITUDE: $54^{\circ} 34' 59.5''$ N

LICENCE AREA: A126

LONGITUDE: $1^{\circ} 5' 25.5''$ W

R.T.E. 76 ft A.O.D.

GRID REF: 458779 521281

G.L.E. ?

TYPE OF RIG: Ideal 50

OBJECTIVES:

DATE SPUNDED: 26.6.45

DATE COMPLETED: 22.9.45

WELL STATUS: Plugged and Abandoned

TOTAL DEPTH: 3736 ft

GEOLOGICAL DATA

<u>Formation</u>	<u>Top (b.r.t.)</u>	<u>Top (s.s.)</u>	<u>Thickness (ft.)</u>
QUATERNARY	at	surface	47
Drift	at	surface	47
JURASSIC	47	+29	374
Lower Lias	47	+29	374
TRIASSIC	421	345	1557
Rhaetic	421	345	52
Keuper	473	397	675
Bunter	1148	1072	830
PERMIAN	1978	1902	1758
Saliferous Marls	1978	1902	209
Top Anhydrite	2187	2111	44
Upper Salt	2231	2155	131
Main Anhydrite	2362	2286	42
Upper Magnesian Limestone	2404	2328	75
Salt and Anhydrite Series	2479	2403	65
Main Magnesian Limestone	2544	2468	581
Permian Conglomerate	3125	3049	29
CARBONIFEROUS	3154	3078	582+
TOTAL DEPTH	3736	3660	

LOGS

Porosity log 1186 - 3365' Resistivity log 1186 - 3365'

TESTS

Packer Tests as follows:-

1. 1173 - 1400' water 470 galls.
2. 1625 - 1660' water 700 galls.
3. 1843 - 1890' No Production
4. 2050' water 120,000 g.p.d.
5. 2405 - 2495' No Production
6. 2551 - 2665' Brine 1170 g.p.d.
7. 2820 - 2965' Gas 73,000 cu.ft.
8. 2885 - 2965' No Production
9. 2954 - 3121' water 43,000 g.p.d.
10. 3429 - 3674' water 210 g.p.d. Trace gas

Kirkleatham No. 1 Continued

Cores

1 - 30	2050 - 2550'
31 $\frac{3}{8}$ 44	2605 - 2820'
45 - 47	3121 - 3145'
48	3173 - 3193'
49 - 50	3348 - 3375'
51	3462 - 3472'
52	3506 - 3521'
53	3615 - 3618'
54 - 55	3621 - 3648'
56	3684 - 3688'
57	3727 - 3736'

Shows:

3120' Bituminous oily limestone and shale