

BP PETROLEUM DEVELOPMENT LIMITED

WELL DATA SUMMARY

LOCATION DATA	AREA	COMPANY
Long. $50^{\circ} 48' 15.9''$ W.	U.K. (N.E. Yorkshire)	Home Oil
Lat. $54^{\circ} 30' 41.9''$ E		WELL No. NEWTON MULGRAVE 1.
R.T. above M.S.L. 715'	Water Depth. -	Outfit

OBJECTIVE	To test Permian & Basal Sands.	
SPUDDED	16.7.65	COMPLETED 30.9.65 STATUS ABANDONED
BOTTOMED IN	CARBONIFEROUS - Millstone Grit?	TOTAL DEPTH 6756'

HOLE and CASING RECORD

HOLE SIZE & DEPTH	CASING SIZE	SHOE DEPTH	CEMENTED TO	DETMN	REMARKS
	11 $\frac{3}{4}$ "	502			
	8 $\frac{5}{8}$ "	4433			

CEMENT PLUGS 0 - 100' 4300 - 4900' 4900 - 5600' 5600 - 6756'	PACKERS, B. PLUGS, RETAINERS, ETC.	ABNORMAL OCCURENCES WHILE DRILLING
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PERFORATIONS, TEST and COMPLETION INTERVALS, ETC.:-

TEST RESULTS, INITIAL PRODUCTION, ETC.:-			
DST 1.	4440 - 4495	Upper Doggerian Lat.	No production
2.	4793 - 4860	Doggerian Oolitic Lat.	3 $\frac{1}{4}$ bbls salt water in 1 hr.
3.	5630 - 5680	Lower Doggerian Lat.	57 bbls gassy salt water in 2 hrs. (20 mcf/day gas?)

MUD HISTORY:-

Mud Losses:

Gas Shows:

Oil Shows:

Water Entry:

LOGS RUN:

WELL NO. NEWTON MULGRAVE

GAMMA RAY / NEUTRON	FORMATION DENSITY/GAMMA GAMMA	ELECTRIC
<u>SONIC/GAMMA RAY/CALIPER</u> B - 4433 4400 - 6746		<u>INDUCTION/ELECTRIC</u> 502 - 4435 4400 - 6746
LATEROLOG	MICROLATERLOG	DEVIATION / DIPMETER
SONIC (inc. Calibration Survey)	CEMENT BOND / TEMP.	MISCELLANEOUS
Sonic / Gamma Ray / Caliper (see above)		<u>MICROLOG / CALIPER</u> 4402 - 6747

SAMPLING, CORES and SIDEWALL SAMPLES.

Core No	Start	End	Length	Permian	Age
1	4108	4166	(58')	Rec. 58'	U. Evaporites
2	4166	- 4224	(58')	58'	U. Evaporites / Carnallite Marl
3	4224	- 4284	(60')	60'	M. Evaporites
4	4284	- 4343	(59')	59'	M. Evaporites
5	4343	- 4402	(59')	59'	M. Evaporites
6	4402	- 4435	(33')	33'	M. Evap., / U. Magnesian Lst.
7	5813	- 5815	(2')	9"	Carboniferous — M. Grit
8	5816	- 5819	(3')	1'	M. Grit
9	5848		(-)	4"	M. Grit
10	6564	- 6570	(7')	5'	M. Grit

INFORMATION AVAILABLE TO BP.

Report No. U.K. 400 with all sample descriptions, cores, tests etc.
 Logs are included.

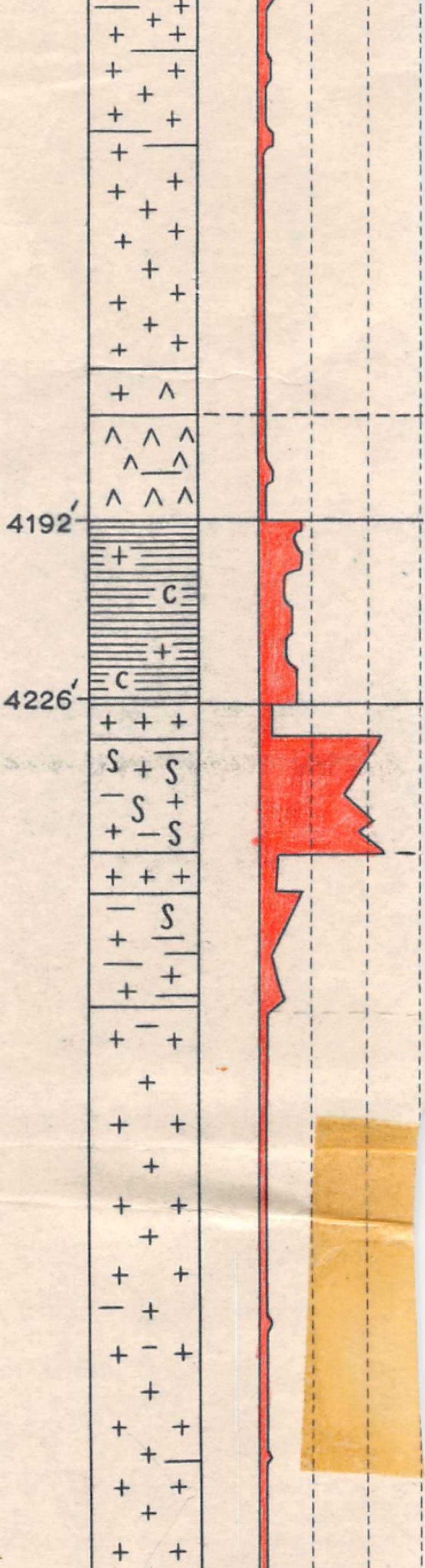
? Samples + cores available on request? ABOVE 5000' only.

REMARKS.

HOME O.C.

NEWTON MULGRAVE No 1.

Zechstein interp.
by PSC.



UNIVERSITY OF SHEFFIELD

Sorby Professor:

LESLIE R. MOORE, D.Sc., Ph.D., F.G.S.

Telephone: 78555



DEPARTMENT OF GEOLOGY,

MAPPIN STREET,

ST. GEORGE'S SQUARE,

SHEFFIELD 1.

RN/SHT

8th November, 1965.

J.L. Carr, Esq.,
Chief Geologist,
Home Oil Company, Ltd.,
304, Sixth Avenue South West,
Calgary, Alberta,
Canada.

Dear John,

Thank you for your letter giving the situation on the Newton Mulgrave Well. I am enclosing a list of the cuttings samples which we received from Murray Craig (Second list for the I.C.I. well at Staithes). So far the Newton Mulgrave material has provided only poorly preserved spores over the 5700 to 5800 ft. interval. This is to some extent a reflection of the maceration technique, which has now been rectified. The little evidence which these samples have provided suggest an age of Namurian A to Upper Visean - with a leaning towards the former. I would like more material though particularly now that the well appears to reach down to 6750 ft. Did the goniatites from the short core at 6565 - 70 ft. provide any information?

Yours sincerely,

A handwritten signature in ink, appearing to read "Roger D. Moore".

c.c. Wm. P. Ogilvie.

NEWTON MULGRAVE NO.1 (H.O.C. Canada)

Core and Cutting samples.

<u>Depth</u>	<u>Comment</u>
5725	
5730	
5735	
5740	
5745	
5750	
5755	
5760	
5765	
5775	
5780	
5790	
5795	
5800	
5805	
5810	
5813 - 19	(Core)
5820	
5825	
5830	
5835	
5840	
5845	
6050	
6060	