ANALYSIS OF ORGANIC MATTER BY ROCK-EVAL PYROLYSIS

CLUVERIN-1

Depth (m)		*Tmax*	*S1*	*S2*	*S3*	*S1+S2*	*S2/S3*	*PI*	*TOC*	*HI*	OI
2940-2950	Ctgs	418	0.34	1.39	1.34	1.73	1.04	0.20	1.55	90	86
3175-3180	Ctgs	429	0.33	3.05	1.01	3.38	3.02	0.10	1.40	218	72
3370-3375	Ctgs	435	0.34	1.50	1.36	1.84	1.10	0.18	1.09	138	125
3465-3470	Ctgs	434	0.60	3.52	1.50	4.12	2.35	0.15	2.12	166	71
3585-3590	Ctgs	431	1.18	6.91	2.21	8.09	3.13	0.15	3.57	194	62
3605-3610	Ctgs	433	1.53	7.17	1.26	8.70	5.69	0.18	3.54	203	36
3750-3755	Ctgs	433	1.24	8.88	2.02	10.12	4.40	0.12	4.09	217	49

A TMAX value is not reported if the S2 is <0.2mg/g

TMAX = Max. temperature S2 (^{o}C)

S1 = Volatile hydrocarbons (HC) (mg/g rock)

S2 = HC generating potential (mg/g rock)

S1+S2 = Potential yield (mg/g rock)

S3 = Organic carbon dioxide (mg/g rock)

PI = Production index

OI = Oxygen Index

TOC = Total organic carbon (wt % of rock)

HI = Hydrogen index

nd = no data

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SOLVENT EXTRACTION DATA

CULVERIN-1

DEPTH	Sample Type	Weight of Material Extd. (g)	Total Extract (mg)	Total Extract (ppm)
3605m-3610m	Cuttings	48.3	298.1	6171
3750m-3755m	Cuttings	45.6	269.9	5921

nd = no data

LIQUID CHROMATOGRAPHY DATA
EXTRACT

CULVERIN-1

A. Yields (ppm)

DEPTH	Sample Type	-------Hydrocarbons------- Sats	Aros	HC's	------Non-hydrocarbons------ NSOs	Asph.	Non HC's	Loss on column
3605m-3610m	Cuttings	238	238	477	150	nd	150	5544
3750m-3755m	Cuttings	188	240	428	736	nd	736	4758

CULVERIN-1

B. Yields (%) and Selected Ratios

DEPTH	Sample Type	------Hydrocarbons------ Sats	Aros	HC's	------Non-hydrocarbons------ NSOs	Asph.	Non HC's	Sats / Aros	Asph. / NSO	HC / Non HC
3605m-3610m	Cuttings	38.0	38.0	76	23.9	nd	24	1.0	nd	3.2
3750m-3755m	Cuttings	16.2	20.6	37	63.2	nd	63	0.8	nd	0.6

30/03/06
nd = no data

ANALYSIS OF SATURATED HYDROCARBONS BY GC-MS
EXTRACT

CULVERIN-1

A. Selected Ratios

DEPTH	Sample Type	Prist./Phyt.	Prist./n-C17	Phyt./n-C18	CPI(1)	CPI(2)	(C21+C22)/(C28+C29)
3605m-3610m	Cuttings	8.93	1.99	0.20	1.50	1.38	0.72
3750m-3755m	Cuttings	9.86	5.77	0.53	1.66	1.54	0.35

CULVERIN-1

B. n-Alkane Distributions

DEPTH	nC12	nC13	nC14	nC15	nC16	nC17	Pr	nC18	Ph	nC19	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31
3605m-3610m	0.6	0.8	1.0	1.5	2.0	2.7	5.3	3.0	0.6	3.6	4.1	4.8	5.6	7.0	7.1	9.7	7.4	10.9	6.0	8.6	2.9	4.9
3750m-3755m	0.5	0.7	0.8	1.1	1.3	1.5	8.8	1.7	0.9	2.1	2.4	2.9	3.7	5.2	5.9	9.6	7.7	14.1	7.3	11.6	3.9	6.6

$$CPI(1) = \frac{(C23+C25+C27+C29)+(C25+C27+C29+C31)}{2x(C24+C26+C28+C30)}$$

$$CPI(2) = \frac{(C23+C25+C27)+(C25+C27+C29)}{2x(C24+C26+C28)}$$

30/03/06
nd = no data

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HI = Hydrogen index

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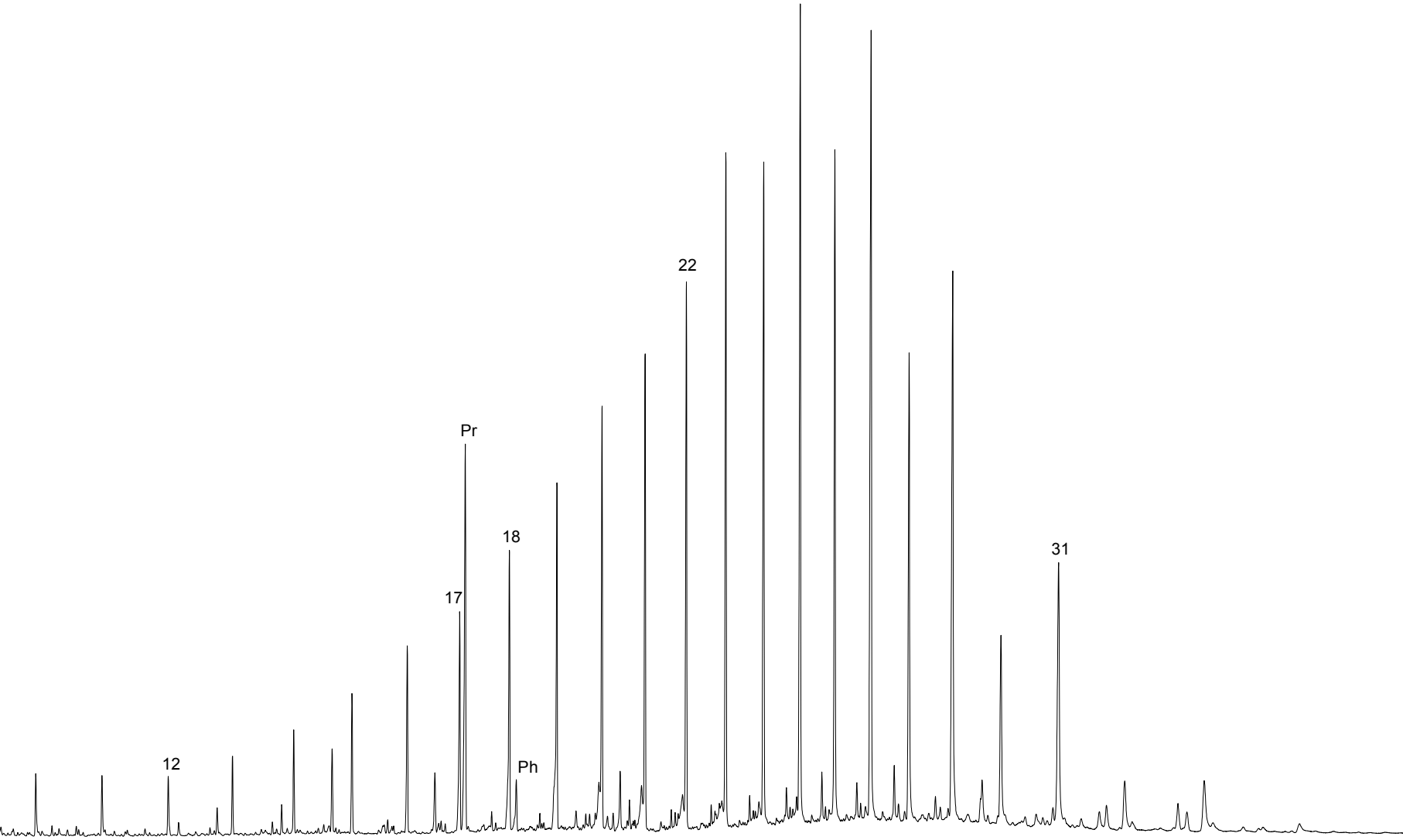
Sample : **CULVERIN-1, 3605-3610m, Cuttings**
File ID : 356601S

Chromatogram obtained from the analysis of saturated hydrocarbons by GC-MS



Sample : **CULVERIN-1, 3750-3755m, Cuttings**
File ID : **356607X**

Chromatogram obtained from analysis of the whole extract by GC-MS