

L-480

Interim Report on Geochemical Analyses of Well 7120/1-1.

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PARTNER VERSION

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Introduction

This interim report consists of interpretation of /comments on the results of analyses carried out for Norske Shell on NOCS well 7120/1-1 from 495 m - 2610 m.

Drilling of the well was temporarily interrupted (due to weather conditions) and a summary of data to date was requested by C.J. Van der Zwan on 12 February 1986.

This report will be superceded by a final report when the analysis program is completed.

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Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
495.0(SWC)	0.59	100	Clst : ol gy, slt
500	0.70	100	Clst : lt gy, sl mica, sl calc, sl pyr, glauc
530	0.77	95 5	Clst : lt gy, sl mica, sl calc, sl pyr Sst : w to lt brn, gy, ang, prt cem
550.0(SWC)	0.70	100	Clst : ol gy, slt
560	0.60	100	Clst : lt gy, sl mica, sl calc, sl pyr
590	0.54	100	Clst : lt gy, sl mica, sl calc, sl pyr Sst : lt brn
600	0.61	100	Clst : lt gy, sl mica, sl calc, sl pyr
620	0.57	100	Clst : lt gy, sl mica, sl calc, sl pyr
650	0.51	100	Clst : lt gy, occ m gy, f grn, occ lam, sl mica, sl calc, sl pyr Cont : paint
680	0.61	80 20	Clst : lt gy, occ m gy, f grn, occ lam, sl mica, sl calc, sl pyr Sst : Q grn, glauc, w to lt brn, sub ang to sub rnd Clst : brn red
700	0.56	50 50	Clst : lt gy, lt ol to gn gy, f grn, occ lam, sl mica, sl calc, sl pyr Sst : Q grn, glauc, w to lt brn, sub ang to sub rnd Cont : paint, rust
700.5(SWC)	1.21	100	Clst : ol blk, slt
710	0.54	80 20	Clst : lt gy to gn gy / ol gy to m gy, sl mica, sl calc, pyr Sst : Q grn, w to lt brn / or, sub ang, glauc
720	0.55	60 40	Clst : var col of lt gy, gn gy, red brn Sst : Q grn, w to lt brn, semi cons, glauc
730	0.53 0.17	70 20 10	Clst : lt gy, gn gy Clst : red brn Sst : Q grn, glauc
740	0.50	30 20 50	Clst : lt gn gy Clst : lt red brn Sst : w, pyr, glauc, mica Oolite ?

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
750	0.57	40 55 5	Clst : lt gy to m gy, gn gy, slt, calc Sst : prt cem, pyr, glauc Clst : red brn
760		95 5	Sst : w, m cem, sub ang, glauc, mica Clst : var col, Caved ?
770		95 5	Sst : w, m cem, sub ang, glauc, mica Clst : var col, Caved ? Cont : plastic, paint
780	0.31	70 30	Clst : lt gn gy and lt to m gy Sst : Q grn, prt cem, arg
790	0.30	65 35	Clst : lt gn gy, lt red brn Sst : Q grn, prt cem, arg Cont : paint
800	0.42	75 20 5	Sst : Q, grn, prt cem, arg Clst : lt gn gy Clst : gy to brn gy, slt
807.7(SWC)	0.41	100	Clst : ol gy, mimic
810	0.56 0.39	60 15 5 20	Clst : lt gn gy to lt gy Clst : red brn Lst : w Sst : Q grn, glauc, pyr
820	0.34 0.07	35 35 25 5	Clst : lt gn gy Clst : red brn Lst : w Sst : Q grn, glauc, pyr
830	0.42 0.17	60 30 10	Clst : brn red to pu Clst : gn gy Sst : Q grn, glauc, pyr Lst : w
840	0.35	40 40 20	Clst : gn gy Clst : red brn Sst : loose, sl cem
850	0.25	70 20 10	Clst : gn gy Clst : red brn Lst : w
860	0.36	60 30 10	Clst : lt gy to gn gy Clst : red brn Sst : loose, sl cem

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
864.2(SWC)	0.41	100	Clst : ol gy to ol blk, prt slt Cont : rust, w ad (baryte ?)
870	0.31	50 35 15	Sst : w to lt brn gy, crs, glauc, mica Clst : lt gy to gn gy Clst : red brn Lst : w
880	0.29	60 25 15	Clst : lt gy to gn gy Clst : red brn Sst : w to lt brn gy, crs, glauc, mica
890	0.36	60 30 10	Sst : w to lt brn gy, crs, glauc, mica Clst : lt gy to gn gy Clst : red brn
900	0.33	75 20 5	Sst : w to lt brn gy, crs, glauc, mica Clst : lt gy to gn gy, slt Clst : drk red brn to gy
910	0.49	50 40 10	Sst : w to lt brn gy, crs, glauc, mica Clst : lt to m gy, gn gy Clst : red brn to or brn
920	0.36	50 40 10	Sst : w to lt brn gy, crs, glauc, mica Clst : lt to m gy, gn gy Clst : red brn to or brn
930	0.53	90 10	Sst : w to lt brn gy, crs, glauc, mica Clst : lt to m gy, gn gy
940	0.62	80 15 5	Sst : w to lt brn gy, crs, glauc, mica Clst : lt to m gy, gn gy Clst : : red brn, pu Coal ?
950	0.57	45 45 10	Sst : w to lt brn gy, crs, glauc, mica Clst : lt to m gy, gn gy Clst : : red brn Cont : paint
960	0.60	50 30 20	Clst : lt to m gy, gn gy Clst : red brn Sst : w to lt brn gy, crs, glauc, mica
970	0.51	40 40 20	Clst : gn gy Sst : w to lt brn gy, crs, glauc, mica Clst : red brn to gy

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
980	36.81 0.84	50 40 10	Sst : w to lt brn gy, crs, glauc, mica Coal (carb Clst ?) Clst : lt to m gy, gn gy
990	0.55	70 20 10	Sst : w to lt brn gy, crs, glauc, mica Clst : lt gy, gn gy Clst : lt brn to red brn
1000	1.24	65 20 10 5	Clst : lt to m gy, slt to s Clst : lt to m gy Sst : w to lt brn gy, crs, glauc, mica Clst : lt red brn
1010	1.13	70 20 10	Clst : lt to m gy, var slt and s Sst : w to lt brn gy, crs, glauc, mica Clst : lt brn to red brn
1013.5(SWC)	0.79	100	Clst : m gy
1020	0.47	80 20	Clst : lt to m gy, gn gy Sst : w to lt brn gy, glauc, mica, slt Dirty Sample
1030	0.25 1.26	40 30 30	Clst : lt gn Clst : lt to m gy Sst : mica, glauc, pyr Difficult Sample
1040		95 5	Sst : mica, glauc, pyr, carb Clst : gn
1050		100	Sst : mica, glauc, pyr, carb Clst : gn
1060	0.50	70 20 10	Sst : mica, glauc, pyr, carb Clst : gy to gn gy Clst : red brn
1070	0.62	70 25 5	Sst : mica, glauc, pyr, carb Clst : gy, gn gy Clst : red brn Coal Pyr
1076.6(SWC)	0.71	100	Clst : ol blk Cont : rust, w dd (baryte ?)
1080	0.64	50 20 15 15	Clst : gn gy to lt gy Sst : mica, glauc, pyr, carb Coal, dull Clst : red brn

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1090	0.69	70 20 10	Sst : mica, glauc, pyr, carb Clst : lt to m gy, gn gy Clst : red, red brn Coal ?
1100	0.73	50 30 20	Cist : lt gy, gn gy Sst : mica, glauc, pyr, carb Clst : lt red brn Coal
1110	0.88	60 35 5	Sst : mica, glauc, pyr, carb Clst : lt gy to gn gy, m gy Clst : red brn
1120		100	Cont : Cem, Coal ad
1125.0(SWC)	1.88	50 50	Clst : drk gy Slst: lt gy Clst/Slts interlam.
1130	0.88	60 40	Clst : lt to m gy, calc, grading to arg carb Sst : mica, glauc, pyr, carb, crs grn
1140	1.34 0.75 0.43	80 10 10	Clst : lt to m gy Sst : mica, glauc, pyr, carb, crs grn Cont : Cem Lst : lt to m gy, drk brn, crs, arg Lst : w to lt gy, brn
1150	0.46	60 30 10	Sst : mica, glauc, pyr, carb, crs grn Clst : lt to m gy Cont : Cem Coal Lst : drk brn
1158.0(SWC)	1.78	100	Clst : brn blk
1170	2.14 0.37	80 20	Sst : mica, glauc, pyr, carb, crs grn Clst : lt to m gy Lst : drk brn
1180	1.92 0.44	95 5	Clst : lt to m gy Sst : mica, glauc, pyr, carb, crs grn Lst : lt brn
1190	1.29 0.43	85 10 5	Clst : lt to m gy Sst : mica, glauc, pyr, carb, crs grn Cont : Cem ? Lst : lt brn

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1200	0.80	20 30 50	Sst : mica, glauc, pyr, carb, crs grn Lst : w to lt gy Clst : lt to m gy Lst + Clst
1210	0.80	50 30 20	Sst : mica, glauc, pyr, carb, crs grn, prt silt Lst : w to lt gy Clst : lt to m gy Lst + Clst Difficult Sample. Dirty
1211.3(SWC)	0.65	50 50	Clst : drk gy Sltst: lt gy Clst/Sltst interlam.
1220	0.86	60 10 30	Clst : lt to m gy, calc Sst : mica, glauc, pyr, carb, crs grn, prt silt Clst : lt gy, var calc, silt
1230		60 20 20	Sst : mica, glauc, pyr, carb, crs grn, prt silt Lst : lt brn to off w Clst : lt to m gy
1240		90 10	Sst : mica, glauc, pyr, carb, crs grn, prt silt Clst : lt gy, silt Glauc, Pyr
1244.2(SWC)	1.32	100	Clst : brn blk, sl calc
1250	1.04	100	Clst : lt gy, w to m gy, calc grading to Lst
1260		95 5	Lst : lt brn to off w, glauc Clst : lt to m gy
1270		100	Lst : lt gy, glauc, oolitic
1280		90 10	Lst : lt gy, glauc, oolitic Clst : lt gn gy
1290	0.61	80 15 5	Sst : mica, glauc, pyr, carb, crs grn, prt silt Clst : lt to m gy Coal
1298.8(SWC)	1.10	100	Clst : lt gy, silt, sl calc
1300		95 5	Sst : w to lt gy, crs Clst : lt to m gy Pyr

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1310	0.94	90 10	Sst : mica, glauc, pyr, carb, crs grn, prt slt Clst : lt gy calc Coal
1320		90 10	Sst : mica, glauc, pyr, carb, crs grn, prt slt Clst : lt to m gy Coal
1330	0.41 1.07 0.87	70 30	Sst : slt Clst : lt to m gy Sltst: grading from s, slt Clst to Sst
1340	1.16	95 5	Sltst: grading from slt Clst to Sst Sst : slt Cont : Fe
1340.0(SWC)	1.11	100	Clst : ol blk, sl calc
1350	1.31	90 5 5	Sltst: m drk gy, grading to Sst, pyr Sst : w, blk, crs, pyr Clst : lt brn to lt gy
1360	1.03	90 10	Clst : m drk gy, occ calc, occ slt Sst : w to lt gy, occ carb, occ pyr Cont : fib, Cem, rust Caved ?, Poor Sample
1370	1.15	90 10	Clst : gn gy grading to lt to m gy, var slt, f to m crs grn Sst : w to lt gy, occ carb, occ pyr
1380	1.02	60 40	Clst : gn gy grading to lt to m gy, var slt, f to m crs grn Sst : w to lt gy, occ carb, occ pyr Some loose Q grn
1390	1.20	40 60	Clst : gn gy grading to lt to m gy, var slt, f to m grn Sst : w to lt gy, occ carb, occ pyr Tr Lst, tr Q Cont : fib
1393.0(SWC)	0.81	100	Clst : ol blk, sl calc
1400	0.96	60 40	Clst : gn gy grading to lt to m gy, occ pyr, var slt, f to m grn Sst : w to lt gy, occ carb, occ pyr Pyr

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1410	0.93	50	Clst : gn gy grading to lt to m gy, occ pyr, var slt, f to m grn
		50	Sst : w to lt gy, occ carb, occ pyr Little Material
1420	1.13	70	Sst : Q, cons, lt w to lt gy, occ carb
		25	Clst : m to drk gy
		5	Dol : lt brn
1430	1.38	80	Sst : Q, cons, lt w to lt gy, occ carb
		15	Clst : m to drk gy, occ carb
		5	Mixture of dolomite, limestone, oolite, sltstone lt brn Pyr Cont
1440	0.97	85	Clst : m to drk gy, occ carb
		5	Sst : Q, cons, lt w to lt gy, occ carb
		10	Cont : dd Pyr
1450	1.26	70	Clst : m to drk gy, occ slt, occ mica, sl calc
		30	Sst : w, brn, glauc, m rnd, cem, occ carb
1460	1.39	80	Sst : Q, occ cem, occ carb, pyr
		20	Clst : m to drk gy, occ slt, occ mica, sl calc Oolite Pyr Cont : w ad (baryte ?)
1470	1.18	80	Clst : m to drk gy, occ slt, occ mica, sl calc
		20	Sst : Q, prt cem, occ carb, pyr
1480	1.20	80	Sst : Q, prt cem, occ carb, pyr
		20	Clst : m to drk gy, occ slt, occ mica, sl calc Oolite Cont : mud ad, rust
1486.5(SWC)	1.86	100	Clst : blk, sl calc
1490	1.21	85	Clst : m to drk gy, slt, occ mica, sl calc
		10	Sst : Q, prt cem, occ carb, pyr
		5	Cont : dd, rust
1500	1.12	30	Sltst: lt to m gy, occ calc, mica, carb
		15	Sst : Q, prt cem, occ carb, pyr
		5	Cont : dd
1510	1.17	70	Clst : lt to m gy, occ calc, mica, carb, slt
		30	Sst : Q, prt cem, occ carb, pyr

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1520	1.30	50 50	Sst : w, lt gy, a/a Clst : lt to m drk gy, occ calc, slt, f grn to m crs grn
1530	1.52	80 20	Sst : Q, occ cem, w to gy, sub rnd to sub ang Sltst: s, mica, carb, occ calc, crs grn
1535.0(SWC)	0.82	100	Clst : gy blk
1540	1.17	70 30	Clst : lt to m gy, occ calc, slt to s Sst : Q, occ cem, w to gy, sub rnd to sub ang
1550	0.97	65 30 5	Clst : lt to m gy, var calc, slt to s Sst : Q, occ cem, w to gy, sub rnd to sub and Dol : off w to lt brn Pyr Cont : dd
1560	1.02	80 20	Clst : lt to m gy, occ drk gy, slt, occ calc, hd Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : off w to lt brn
1570	1.06	90 5 5	Clst : lt to m gy, occ drk gy, sl slt, occ calc, hd Dol : off w to lt brn Sst : Q, var cem, w to gy, sub rnd to sub ang Cont : Coal ad, w ad (baryte ?)
1580	1.02	90 5 5	Clst : lt to m gy, occ drk gy, sl slt, occ calc, hd Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : off w to lt brn Cont : Coal ad, w ad (baryte ?)
1590	1.05	90 10	Sst : Q, var cem, w to gy, sub rnd to sub ang Clst : lt to m gy, occ drk gy, sl slt, occ calc, hd Tr Dol/Lst Clst : Caved ?
1593.0(SWC)	0.70	100	Clst : ol gy, slt, sl calc
1600	0.99	60 25 5	Clst : lt to m gy, occ drk gy, sl slt, occ calc, hd Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : off w to lt brn
1610	1.21	60 35 5	Clst : lt to m gy, occ drk gy, slt to s, pyr Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : off w to lt brn
1620	1.20	90 10	Clst : lt to m gy, occ drk gy, sl calc Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : off w to lt brn Pyr Cont : Coal ad, w ad (baryte ?)

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1630	1.29	90 5 5	Clst : lt to m gy, occ drk gy, sl calc Sst : Q, var cem, w to gy, sub rnd to sub ang Lst w + Dol brn Cont : Coal ad, w ad (baryte ?)
1640	0.74	85 10 5	Clst : lt to m gy, occ drk gy Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : brn Cont : w ad (baryte ?)
1650	1.08	85 10 5	Sst : Q, var cem, w to gy, sub rnd to sub ang Clst : lt to m gy, occ drk gy Dol : brn Coal Cont : w ad (baryte ?)
1660	1.18	70 25 5	Clst : lt to m gy, occ drk gy Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : brn
1660.5(SWC)	0.96	100	Clst : drk gy
1670	1.05	85 15	Clst : lt to m gy, occ drk gy Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : brn Lst ? Cont : w ad (baryte ?)
1680	1.02	95 5	Clst : lt to m gy, occ drk gy Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : brn Cont : w ad (baryte ?)
1690	1.05	85 10 5	Clst : lt to m gy, occ drk gy Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : brn Cont : w ad (baryte ?)
1700	1.18	60 40	Sst : Q, var cem, w to gy, sub rnd to sub ang Clst : lt to m gy, occ drk gy Dol : brn Cont : w ad (baryte ?)
1710	1.07	90 10	Clst : lt to m gy, occ drk gy Sst : Q, var cem, w to gy, sub rnd to sub ang Lst : w
1720	0.98	20 80	Clst : lt gy to gn gy Sst : Q, var cem, w to gy, sub rnd to sub ang Dol : brn Cont : w ad (baryte ?)

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1730	1.73	95 5	Sst : Q, var cem, w to gy, sub rnd to sub ang Clst : lt gy to gn gy Coal
1740	1.12	60 40	Clst : lt gy to gn gy Sst : Q, var cem, w to gy, sub rnd to sub ang Coal Cont : w ad (baryte ?), rust
1747.2(SWC)	1.77	100	Clst : gy blk, calc
1750	2.41	50 50	Clst : lt gy to gn gy Sst : Q, var cem, w to gy, sub rnd to sub ang Coal Cont : paint, w ad (baryte ?)
1760	1.71	60 40	Sst : Q, var cem, w to gy, sub rnd to sub ang, carb Clst : lt gy to gn gy Coal
1770	2.01	60 40	Sst : Q, var cem, w to gy, sub rnd to sub ang, var carb Clst : lt gy to gn gy, sl carb, slt, s Coal
1780	1.40	70 30	Clst : lt to m gy, slt, s, occ carb Sst : Q, var cem, w to gy, sub rnd to sub ang, carb Cont : w ad (baryte ?)
1790	0.92	60 40	Sst : Q, var cem, w to gy, sub rnd to sub ang, carb Clst : lt to m gy, s, occ carb
1794.2(SWC)	1.00	50 50	Clst : drk gy Slstst: lt gy Clst/Slst interlam., glauc
1800	1.37	70 30	Sst : Q, var cem, w to gy, sub rnd to sub ang, carb Clst : lt to m gy, s, occ carb
1810	1.39	70 30	Clst : lt to m gy, s, occ carb Sst : Q, var cem, w to gy, sub rnd to sub ang, carb Coal
1820	1.49	60 40	Clst : lt to m gy, slt, s, occ carb Sst : Q, var cem, w to gy, sub rnd to sub ang, carb Coal ? Cont : w ad (baryte ?)
1830	1.50	50 50	Clst : lt to m gy, slt, s, occ carb Sst : Q, var cem, w to gy, sub rnd to sub ang, carb Cont : w ad (baryte ?)

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1840	1.53	90 10	Sst : Ø, main loose, w to gy, sub rnd to sub ang, carb Clst : lt to m gy, var slt, occ carb
1850		95 5	Sst : w to lt brn / gy, glauc, carb, sub rnd to sub ang, m well cem, occ st Clst : lt to m gy, var slt, occ carb
1860	43.81	70 30	Sst : w to lt brn / gy, glauc, carb, sub rnd to sub ang, m well cem, occ st Coal (carb Clst ?) Clst : lt to m gy, var slt, occ carb
1870	1.54	70 30	Sst : w to lt brn / gy, glauc, carb, sub rnd to sub ang, m well cem, occ st Clst : lt to m gy, var slt, occ carb Coal Cont : w ad (baryte ?), paint
1880	2.51	50 50	Sst : w to lt brn / gy, glauc, carb, sub rnd to sub ang, m well cem, occ st Clst : lt to m gy, slt, occ st
1890	1.65	60 40	Sst : w to lt brn / gy, glauc, carb, sub rnd to sub ang, m well cem, occ st Clst : lt to m gy, slt, occ st Coal Cont : paint
1895.0(SWC)	1.44	50 50	Clst : m drk gy Sltst: lt gy Clst/Sltst interlam.
1900	1.57	90 10	Sst : w to lt brn / gy, glauc, carb, sub rnd to sub ang, m well cem, occ st Clst : lt to m gy, slt, occ st
1910	1.35	80 20	Sst : w, crs to m grn, sub rnd to sub ang, glauc, occ carb Clst : lt to m gy, slt to s, m crs
1920	1.92	65 35	Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb Clst : lt to m gy, slt to s, m crs Coal Cont : dd
1930	1.49	85 15	Clst : lt to m gy, slt to s, m crs Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb
1937.0(SWC)	0.78	100	Clst : ol blk, calc, pyr, glauc

Description of Lithology for NOCS Well 7120/1-1

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Depth (m)	TOC %	Lith. %	Lithology Description
1940	1.15	95 5	Clst : lt to m gy, slt to s, m crs Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb Cont : dd, rust
1950	1.36	80 20	Clst : lt to m gy, slt to s, m crs Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb
1960	1.28	95 5	Clst : lt to m gy, slt to s, m crs Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb
1967.0(SWC)	1.03	100	Clst : brn blk, sl calc
1970	1.24	95 5	Clst : lt to m gy, slt to s, m crs Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb
1980	1.42	95 5	Clst : lt to m gy, slt to s, m crs, occ vy carb Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb
1990	1.55	80 20	Clst : lt to m gy, slt to s, m crs, occ carb Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb
2000	1.53	70 30	Clst : lt to m gy, slt to s, m crs, occ carb Sst : w to lt gy, crs to m grn, sub rnd to sub ang, mica, glauc, occ carb
2010	1.19	60 40	Clst : lt to m gy, slt to s, m crs, occ carb Sst : w to lt gy, occ carb Cont : dd, rust
2020	1.39	85 15	Clst : lt to m gy, f to crs grn, occ calc, occ carb, slt to s Sst : off w to lt gy, occ mica, occ glauc
2030	1.36	50 50	Clst : lt to m gy, f to crs grn, occ calc, occ carb, slt to s Sst : off w to lt gy, occ mica, occ glauc Coal Cont : dd
2040	1.14	90 5 5	Clst : lt to m gy, f to crs grn, occ calc, occ carb, slt to s Sst : off w to lt gy, occ mica, occ glauc Cont : ss, paint

Description of Lithology for NOCS Well 7120/1-1

-14-

Depth (m)	TOC %	Lith. %	Lithology Description
2050	1.12	95	Clst : lt to m gy, f to crs grn, occ calc, occ carb, slt to s
		5	Sst : off w to lt gy, occ mica, occ glauc
2060	0.97	95	Clst : lt to m gy, f grn
		5	Sst : off w to lt gy, occ mica, occ glauc
2070	1.16	95	Clst : lt to m gy, occ sl calc
		5	Sst : off w to lt gy, occ mica, occ glauc
			Cont : w ad (baryte ?)
2073.4(SWC)	1.21	100	Clst : brn blk
2080	1.35	100	Clst : lt to m gy, sl slt, sl calc, occ pyr, occ mica
			Sst
			Sltst
			Cont : w ad (baryte ?), rust
2090	1.23	90	Clst : lt to m gy, sl slt, sl calc, occ pyr, occ mica
		10	Sst : off w to lt gy, occ mica, occ glauc
			Cont : w ad (baryte ?), rust
2100	1.29	95	Clst : lt to m gy, sl slt, sl calc, occ pyr, occ mica
		5	Sst : off w to lt gy, occ mica, occ glauc
2103.9(SWC)	1.10	100	Clst : gy blk, sl calc
			Cont : w dd (baryte ?)
2112	1.18	50	Clst : lt to m gy, sl slt, sl calc, occ pyr, occ mica
		50	Cont : Cem, Fe, paint, dd
2124	1.16	85	Clst : lt to m drk gy, slt, occ sl calc
		15	Sst : off w to lt gy, occ mica, occ glauc
			Cont : paint
2136	1.16	95	Clst : lt to m drk gy, slt, occ sl calc
		5	Sst : off w to lt gy, occ mica, occ glauc
			Cont : paint
2148	1.24	95	Clst : m gy, slt, occ sl calc
		5	Sst : off w to lt gy, occ mica, occ glauc, Caved ?
			Cont : paint
2159.5(SWC)	1.28	100	Sltst: ol gy, sl calc, thin laminae of w s
2160	1.14	100	Clst : lt to m drk gy, slt, occ sl calc
			Sst : off w to lt gy, occ mica, occ glauc, Caved ?
2172	1.15	95	Clst : lt to m drk gy, slt, occ al calc
		5	Sst : off w to lt gy, occ mica, occ glauc, Caved ?

Description of Lithology for NOCS Well 7120/1-1

-15-

Depth (m)	TOC %	Lith. %	Lithology Description
2180.5(SWC)	1.06	100	Clst : ol gy, slt, vy sl calc
2184	1.09	100	Clst : m to drk gy, hd to brtl, sl glauc, non to sl calc, occ mica, occ pyr, occ carb
2196	1.05	100	Clst : m to drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb Cont : dd
2205	1.14	100	Clst : m to drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb Cont : dd
2209.5(SWC)	0.63	100	Clst : ol gy, vy calc, with thin bands of lst
2217	1.05	100	Clst : m to drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb Sst : off w to lt gy, occ mica, occ glauc, slt
2224.0(SWC)	0.49	50 50	Clst : ol gy Sltst: lt ol gy, calc Clst + Sltst Cont : rust
2229	0.95	95 5	Clst : m to drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb Sst : off w to lt gy, occ mica, occ glauc, slt
2241	0.96	100	Clst : m to drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb Sst : off w to lt gy, occ mica, occ glauc, slt
2256	0.93	100	Clst : lt to m drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb
2257.0(SWC)	0.76	100	Clst : ol blk, with thin laminae of ol gy slt mat Cont : dd
2268	0.92	100	Clst : lt to m drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb Sst : off w to lt gy, occ mica, occ glauc, occ carb Cont : paint
2280	0.94	100	Clst : lt to m drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb Sst : off w to lt gy, occ mica, occ glauc, occ carb Cont : rust
2284.0(SWC)	1.01	100	Clst : ol blk, sl calc, with lenses of lt gy to ol gy slt mat

Description of Lithology for NOCS Well 7120/1-1

-16-

Depth (m)	TOC %	Lith. %	Lithology Description
2292	1.00	90	Clst : lt to m drk gy, hd to brtl, sl glauc, sl slt, non to sl calc, occ mica, occ pyr, occ carb
		10	Sst : lt gy, cem, occ carb, f to crs grn
2299.0(SWC)	0.58	100	Sltst: ol gy Cont : y to brn dd
2304	1.00	80	Clst : lt to m drk gy, hd to brtl, sl glauc, slt, non to sl calc, occ mica, occ pyr, occ carb
		20	Sst : lt gy, cem, occ carb, f to crs grn Cont : fib
2316	0.99	95	Clst : lt to m drk gy, hd to brtl, sl glauc, slt, non to sl calc, occ mica, occ pyr, occ carb
		5	Sst : lt gy, cem, occ carb, f to crs grn Dol Cont : paint
2319.0(SWC)	0.60	100	Sltst: ol gy, calc
2327	0.59	100	Sst/slt lt gy to m gy, off w, f grn grading to crs grn. occ mica carb
2342	0.52	100	Sst/slt lt gy to m gy, off w, f grn grading to crs grn, occ mica carb Clst : lt to m drk gy, hd to brtl, sl glauc, slt, non to sl calc, occ mica, occ pyr, occ carb Caved
2344.5(SWC)	0.68	100	Sltst : ol gy, calc, occ w s grn
2354	1.00	100	Sst/slt lt gy to m gy, off w, f grn grading to crs grn, occ mica carb Clst : lt to m drk gy, hd to brtl, sl glauc, slt, non to sl calc, occ mica, occ pyr, occ carb Caved
2363	0.62	100	Sst/slt lt gy to m gy, off w, f grn grading to crs grn. occ mica carb Clst : lt to m drk gy, hd to brtl, sl glauc, slt, non to sl calc, occ mica, occ pyr, occ carb Caved
2376	0.93	50	Clst : brn blk
		50	Sst : w to lt gy, f grn, calc cem Cont : ns, rust, Fe
2387	0.10	60	Sst : w to lt gy, f grn, calc cem
		30	Clst : brn blk
		10	Cont : ns

Description of Lithology for NOCS Well 7120/1-1

-17-

Depth (m)	TOC %	Lith. %	Lithology Description
2398.5(SWC)	0.20	100	Sst : w to lt gy, vy f grn to slt Cont : rust on surface of SWC
2399	0.83	10 10 80	Clst : brn blk Sst : w to lt gy, f grn, calc cem Cont : ns
2411	0.08	70 30	Sst : w to m gy, crs to f grn, calc cem Clst : brn blk Cont : ns
2423	0.80	50 50	Clst : brn blk Sst : w to m gy, crs to f grn, calc cem Cont : ns Pyr
2433		100	Cont : Cem, ns, Caved mat
2436		100	Cont : Cem, ns, Caved mat
2439		20 5 75	Clst : brn blk, Caved ? Lst : brn gy to w, prt dol, prt xtl Sst : w to m gy, crs to f grn, calc cem, Caved ? Cont : Cem, ns, fib, Fe, rust, paint
2445	0.03	90 10	Lst : brn gy to w, prt dol, prt xtl Clst : brn blk, Caved ? Sst : w to m gy, crs to f grn, calc cem, Caved ? Cont : Cem, rust, paint
2446.7(SWC)	0.07	100	Lst : prt w chk, prt drk y brn, xtl Cont : y slt dd
2457	0.04	100	Lst : brn gy to w, prt dol, prt xtl Clst : brn blk, Caved ? Sst : w to m gy, crs to f grn, calc cem, Caved ? Cont : Cem, rust, paint, Fe
2461.4(SWC)	0.08	100	Clst : ol gy, with thin laminae of lt gy slt, sl calc Cont : SWC covered with brn slt mat
2468.3(SWC)	0.67	100	Clst : m to drk gy, mimic, sl calc Cont : SWC covered with brn slt mat
2469	0.57	100	Clst : drk gy, calc, mimic, prt pyr Lst : brn gy to w, prt dol, prt xtl Cont : Cem, rust

Description of Lithology for NOCS Well 7120/1-1

Depth (m)	TOC %	Lith. %	Lithology Description
2481	0.86	100	Clst : drk gy, calc, mimic, prt pyr Lst : brn gy to w, prt dol, prt xtl Cont : Cem, rust
2493		100	Cont : ns
2496	0.94	80	Clst : drk gy, calc, mimic, prt pyr Lst : brn gy to w, prt dol, prt xtl Sst : w to m gy, crs to f grn, calc cem, Caved ?
		20	Cont : ns, Cem
2505	0.89	50	Clst : drk gy, calc, mimic, prt pyr Lst : brn gy to w, prt dol, prt xtl Sst : w to m gy, crs to f grn, calc cem, Caved ?
		50	Cont : ns, Cem, Mica ad
2517	0.77	90	Clst : drk gy, calc, mimic, prt pyr
		10	Cont : ns, Cem, rust, fib, Mica ad
2529	0.89	90	Clst : drk gy, calc, mimic, prt pyr
		10	Lst : brn gy to w, prt dol, prt xtl Cont : ns, Cem, paint, rust, Mica ad
2541	1.12	70	Clst : drk gy, calc, mimic, prt pyr Lst : brn gy to w, prt dol, prt xtl
		30	Cont : ns, Cem, rust, Mica ad
2553	1.10	90	Clst : drk gy, calc, mimic, prt pyr Lst : brn gy to w, prt dol, prt xtl
		10	Cont : ns, Cem, rust, Mica ad
2562	1.50	80	Clst : drk gy, calc, mimic, prt pyr Lst : brn gy to w, prt dol, prt xtl
		20	Cont : ns, Cem, rust, Mica ad
2574	2.16	100	Clst : drk gy to blk, prt calc, mimic Cont : ns, Cem, rust, Mica ad Turbodrilled ?
2586	1.01	100	Clst : drk gy to blk, prt calc, mimic Cont : ns, Cem, rust, Mica ad Turbodrilled ?
2598	0.93	100	Clst : drk gy to blk, prt calc, mimic Cont : ns, Cem, rust, Mica ad Turbodrilled ?
2610	0.23	90	Lst : w to drk gy, xtl
		10	Clst : drk gy to blk, prt calc, mimic Cont : rust

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Table 2 : Rock Eval Pyrolysis

Depth (m)		Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
495	SWC	485	0.01	0.34	0.57	0.03	0.60	0.35	0.59	58	97
500		428	0.02	0.22	1.37	0.08	0.16	0.24	0.70	31	196
530		427	0.02	0.32	0.99	0.06	0.32	0.34	0.77	42	129
550	SWC	425	0.01	0.43	0.74	0.02	0.58	0.44	0.70	61	106
560		428	0.02	0.38	1.04	0.05	0.37	0.40	0.60	63	173
590		428	0.01	0.24	0.67	0.04	0.36	0.25	0.54	44	124
600		429	0.01	0.40	0.00	0.02	-	0.41	0.61	66	-
620		427	0.01	0.24	0.57	0.04	0.42	0.25	0.57	42	100
650		424	0.01	0.23	0.55	0.04	0.42	0.24	0.51	45	108
680		424	0.03	0.23	0.70	0.12	0.33	0.26	0.61	38	115
700		425	0.01	0.22	0.61	0.04	0.36	0.23	0.56	39	109
700.50	SWC	435	0.08	1.13	0.29	0.07	3.90	1.21	0.75	151	39
710		424	0.01	0.22	0.64	0.04	0.34	0.23	0.54	41	119
720		425	0.01	0.23	0.68	0.04	0.34	0.24	0.55	42	124
730	gn-gy	427	0.00	0.16	0.42	-	0.38	0.16	0.53	30	79
730	rd-bn	488	0.00	0.10	0.53	-	0.19	0.10	0.17	59	312
740		427	0.01	0.17	0.71	0.06	0.24	0.18	0.50	34	142
750		428	0.02	0.25	0.59	0.07	0.42	0.27	0.57	44	104
780		379	0.00	0.05	0.91	-	0.05	0.05	0.31	16	294
790		438	0.00	0.08	0.50	-	0.16	0.08	0.30	27	167
800		433	0.00	0.09	0.58	-	0.16	0.09	0.42	21	138

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)	Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
807.70	SWC 438	0.00	0.51	0.00	-	-	0.51	0.41	124	-
810	rd-bn 434	0.00	0.00	0.56	-	-	0.00	0.39	-	144
810	Clst 436	0.00	0.16	0.00	-	-	0.00	0.56	29	-
820	Clst 428	0.04	0.11	0.51	0.29	0.22	0.15	0.34	32	150
820	Lst 408	0.00	0.02	0.01	-	2.00	0.00	0.07	28	14
830	gn-gy 429	0.00	0.09	0.45	-	0.20	0.09	0.17	53	265
830	rd-bn 439	0.00	0.00	0.33	-	-	0.00	0.42	-	79
840	398	0.00	0.05	0.23	-	0.22	0.05	0.35	14	66
850	499	0.00	0.17	0.37	-	0.46	0.17	0.25	68	148
860	435	0.00	0.09	0.13	-	0.69	0.09	0.36	25	36
864.20	SWC 477	0.01	0.17	0.17	0.06	1.00	0.18	0.41	42	42
870	434	0.00	0.03	0.19	-	0.16	0.03	0.31	10	61
880	336	0.00	0.03	0.17	-	0.18	0.03	0.29	10	59
890	498	0.00	0.23	0.38	-	0.61	0.23	0.36	64	106
900	434	0.00	0.09	0.29	-	0.31	0.09	0.33	27	88
910	445	0.00	0.32	0.42	-	0.76	0.32	0.49	65	86
920	434	0.00	0.08	0.17	-	0.47	0.08	0.36	22	47
930	436	0.00	0.14	0.08	-	1.75	0.14	0.53	26	15
940	434	0.00	0.19	0.08	-	2.37	0.19	0.62	31	13
950	433	0.01	0.15	0.75	0.06	0.20	0.16	0.57	26	132
960	432	0.00	0.25	0.29	-	0.86	0.25	0.60	42	48
970	434	0.00	0.16	0.29	-	0.55	0.16	0.51	31	57
980	Clst 432	0.01	0.41	0.22	0.02	1.86	0.42	0.84	49	26

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)		Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
980	Coal	423	2.36	106.91	6.91	0.02	15.47	109.27	36.81	290	19
990		436	0.00	0.17	0.31	-	0.55	0.17	0.55	31	56
1000		437	0.02	1.51	0.53	0.01	2.85	1.53	1.24	122	43
1010		437	0.02	0.95	0.43	0.02	2.21	0.97	1.13	84	38
1013.50	SWC	434	0.05	0.61	0.18	0.08	3.39	0.66	0.79	77	23
1020		434	0.00	0.22	0.19	-	1.16	0.22	0.47	47	40
1030	dk gy	435	0.05	1.07	0.30	0.04	3.57	1.12	1.26	85	24
1030	lt gn	439	0.00	0.03	0.15	-	0.20	0.03	0.25	12	60
1060		433	0.02	0.19	0.20	0.10	0.95	0.21	0.50	38	40
1070		438	0.00	0.14	0.00	-	-	0.14	0.62	23	-
1076.60	SWC	436	0.00	0.48	0.36	-	1.33	0.48	0.71	68	51
1080		438	0.00	0.17	0.00	-	-	0.17	0.64	27	-
1090		434	0.01	0.23	0.00	0.04	-	0.24	0.69	33	-
1100		437	0.02	0.26	0.00	0.07	-	0.28	0.73	36	-
1110		435	0.03	0.45	0.00	0.06	-	0.48	0.88	51	-
1125	SWC	436	0.13	2.72	0.38	0.05	7.16	2.85	1.88	145	20
1130		435	0.11	1.59	1.11	0.06	1.43	1.70	0.88	181	126
1140	Clst	439	0.10	2.65	1.27	0.04	2.09	2.75	1.34	198	95
1140	Lst dk	438	0.06	1.54	1.11	0.04	1.39	1.60	0.75	205	148
1140	Lst lt	426	0.08	0.60	0.99	0.12	0.61	0.68	0.43	140	230
1150		439	0.03	0.66	1.39	0.04	0.47	0.69	0.46	144	302

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)		Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
1158	SWC	437	0.13	4.08	0.00	0.03	-	4.21	1.78	229	-
1170	Clst	441	0.18	8.45	0.21	0.02	40.24	8.63	2.14	395	10
1170	Lst dk	437	0.02	0.35	0.59	0.05	0.59	0.37	0.37	95	160
1180	Clst	441	0.12	8.63	0.31	0.01	27.84	8.75	1.92	450	16
1180	Lst lt	430	0.04	0.45	1.47	0.08	0.31	0.49	0.44	102	334
1190	Clst	440	0.10	4.70	0.55	0.02	8.55	4.80	1.29	364	43
1190	Lst lt	430	0.02	0.37	1.59	0.05	0.23	0.39	0.43	86	370
1200		440	0.05	1.91	0.58	0.03	3.29	1.96	0.80	239	73
1210	Clst/Lst	441	0.03	1.81	0.86	0.02	2.10	1.84	0.80	226	108
1210	Sst/S1st	432	0.01	0.26	0.89	0.04	0.29	0.27	0.35	74	254
1211.30	SWC	428	0.08	0.81	0.15	0.09	5.40	0.89	0.65	125	23
1220		439	0.06	2.07	1.09	0.03	1.90	2.13	0.86	241	127
1230		431	0.08	0.71	1.24	0.10	0.57	0.79	0.75	95	165
1244.20	SWC	439	0.16	3.09	0.00	0.05	-	3.25	1.32	234	-
1250		437	0.08	1.77	1.35	0.04	1.31	1.85	1.04	170	130
1290		435	0.01	0.19	1.04	0.05	0.18	0.20	0.61	31	171
1298.80	SWC	439	0.07	1.17	0.00	0.06	-	1.24	1.10	106	-
1310		439	0.04	0.75	0.84	0.05	0.89	0.79	0.94	80	89
1330	Clst	436	0.05	0.82	2.39	0.06	0.34	0.87	1.07	77	223
1330	Sst	434	0.02	0.10	1.41	0.17	0.07	0.12	0.41	24	344
1330	S1st	439	0.06	0.52	1.78	0.10	0.29	0.58	0.87	60	205

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)	Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
1340	438	0.08	1.08	1.28	0.07	0.84	1.16	1.17	92	109
1340.00 SWC	439	0.03	1.59	0.00	0.02	-	1.62	1.11	143	-
1350	438	0.05	1.11	1.19	0.04	0.93	1.16	1.31	85	91
1360	437	0.04	0.69	1.02	0.05	0.68	0.73	1.03	67	99
1370	435	0.04	0.68	0.97	0.06	0.70	0.72	1.15	59	84
1380	435	0.04	0.69	0.97	0.05	0.71	0.73	1.02	68	95
1390	434	0.05	1.18	0.97	0.04	1.22	1.23	1.20	98	81
1393 SWC	436	0.02	0.83	0.00	0.02	-	0.85	0.81	103	-
1400	433	0.02	0.48	0.80	0.04	0.60	0.50	0.96	50	83
1410	432	0.03	0.44	0.82	0.06	0.54	0.47	0.93	47	88
1420	437	0.02	0.87	1.01	0.02	0.86	0.89	1.13	77	89
1430	435	0.04	1.62	1.06	0.02	1.53	1.66	1.38	117	77
1440	436	0.01	0.69	0.58	0.01	1.19	0.70	0.97	71	60
1450	438	0.03	1.72	0.15	0.02	11.47	1.75	1.26	137	12
1460	438	0.06	1.78	0.43	0.03	4.14	1.84	1.39	128	31
1470	438	0.04	1.49	0.47	0.03	3.17	1.53	1.18	126	40
1480	438	0.03	1.22	0.77	0.02	1.58	1.25	1.20	102	64
1486.50 SWC	440	0.06	2.19	0.39	0.03	5.62	2.25	1.86	118	21
1490	437	0.04	1.07	0.79	0.04	1.35	1.11	1.21	88	65
1500	439	0.02	0.91	0.39	0.02	2.33	0.93	1.12	81	35
1510	438	0.03	0.98	0.18	0.03	5.44	1.01	1.17	84	15

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)	Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
1520	437	0.04	1.07	0.46	0.04	2.33	1.11	1.30	82	35
1530	437	0.04	1.36	0.37	0.03	3.68	1.40	1.52	90	24
1535 SWC	439	0.03	1.01	0.21	0.03	4.81	1.04	0.82	123	26
1540	439	0.04	1.20	0.22	0.03	5.45	1.24	1.17	103	19
1550	436	0.02	0.52	0.18	0.04	2.89	0.54	0.97	54	19
1560	437	0.02	0.65	0.23	0.03	2.83	0.67	1.02	64	23
1570	438	0.02	0.74	0.25	0.03	2.96	0.76	1.06	70	24
1580	440	0.03	0.72	0.28	0.04	2.57	0.75	1.02	71	28
1590	439	0.04	0.78	0.14	0.05	5.57	0.82	1.05	74	13
1593 SWC	440	0.06	0.96	0.00	0.06	-	1.02	0.70	137	-
1600	437	0.03	0.78	0.22	0.04	3.55	0.81	0.99	79	22
1610	437	0.05	0.98	0.18	0.05	5.44	1.03	1.21	81	15
1620	438	0.03	0.79	0.19	0.04	4.16	0.82	1.20	66	16
1630	439	0.03	0.93	0.24	0.03	3.88	0.96	1.29	72	19
1640	437	0.05	0.80	0.19	0.06	4.21	0.85	0.74	108	26
1650	440	0.04	0.87	0.23	0.04	3.78	0.91	1.08	81	21
1660	440	0.05	0.75	0.13	0.06	5.77	0.80	1.18	64	11
1660.50 SWC	440	0.15	1.08	0.00	0.12	-	1.23	0.96	113	-
1670	439	0.06	0.63	0.18	0.09	3.50	0.69	1.05	60	17
1680	439	0.04	0.74	0.07	0.05	10.57	0.78	1.02	73	7
1690	440	0.11	1.06	0.08	0.09	13.25	1.17	1.05	101	8

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)		Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
1895	SWC	444	0.18	1.64	1.06	0.10	1.55	1.82	1.44	114	74
1900		446	0.09	1.69	0.21	0.05	8.05	1.78	1.57	108	13
1910		445	0.08	1.22	0.15	0.06	8.13	1.30	1.35	90	11
1920		445	0.21	2.16	0.99	0.09	2.18	2.37	1.93	112	51
1930		446	0.08	1.05	0.68	0.07	1.54	1.13	1.49	71	46
1937	SWC	444	0.14	1.08	0.40	0.11	2.70	1.22	0.78	139	51
1940		445	0.06	0.79	0.19	0.07	4.16	0.85	1.15	69	17
1950		444	0.07	1.00	0.42	0.07	2.38	1.07	1.36	74	31
1960		445	0.06	0.98	0.17	0.06	5.76	1.04	1.28	77	13
1967	SWC	445	0.18	1.47	0.00	0.11	-	1.65	1.03	143	-
1970		446	0.07	0.92	0.31	0.07	2.97	0.99	1.24	74	25
1980		446	0.10	1.13	0.29	0.08	3.90	1.23	1.42	80	20
1990		446	0.16	1.27	0.22	0.11	5.77	1.43	1.55	82	14
2000		446	0.14	1.34	0.20	0.09	6.70	1.48	1.53	88	13
2010		446	0.08	1.08	0.14	0.07	7.71	1.16	1.19	91	12
2020		448	0.09	1.11	0.13	0.08	8.54	1.20	1.39	80	9
2030		446	0.08	0.92	0.22	0.08	4.18	1.00	1.36	68	16
2040		444	0.06	1.06	0.05	0.05	21.20	1.12	1.14	93	4
2050		447	0.07	0.82	0.07	0.08	11.71	0.89	1.12	73	6
2060		447	0.08	0.73	0.25	0.10	2.92	0.81	0.97	75	26
2070		448	0.09	0.73	0.31	0.11	2.35	0.82	1.16	63	27

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)	Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
1700	441	0.12	1.01	0.08	0.11	12.62	1.13	1.18	86	7
1710	441	0.06	0.69	0.01	0.08	69.00	0.75	1.07	65	1
1720	437	0.04	0.75	0.12	0.05	6.25	0.79	0.98	77	12
1730	437	0.07	0.90	0.11	0.07	8.18	0.97	1.73	52	6
1740	442	0.05	1.55	0.05	0.03	31.00	1.60	1.12	138	5
1747.20 SWC	441	0.11	2.07	5.81	0.05	0.36	2.18	1.77	117	328
1750	440	0.12	2.29	0.72	0.05	3.18	2.41	2.03	113	36
1760	442	0.08	1.79	0.57	0.04	3.14	1.87	1.71	105	33
1770	440	0.13	2.28	0.90	0.05	2.53	2.41	2.01	113	45
1780	441	0.07	1.24	0.55	0.05	2.25	1.31	1.40	89	39
1790	441	0.50	0.90	0.24	0.36	3.75	1.40	0.92	98	26
1794.20 SWC	450	0.09	1.17	0.72	0.07	1.63	1.26	1.00	117	72
1800	445	0.07	1.13	0.60	0.06	1.88	1.20	1.37	83	44
1810	444	0.09	1.20	0.53	0.07	2.26	1.29	1.39	86	38
1820	520	0.07	0.01	0.30	0.88	0.03	0.08	1.49	1	20
1830	446	0.09	1.40	0.29	0.06	4.83	1.49	1.50	93	19
1840	444	0.09	1.44	0.28	0.06	5.14	1.53	1.53	94	18
1860	439	11.53	69.68	1.56	0.14	44.67	81.21	43.81	159	4
1870	440	0.09	2.76	0.35	0.03	7.89	2.85	1.54	179	23
1880	439	0.25	4.50	0.46	0.05	9.78	4.75	2.51	179	18
1890	444	0.09	2.10	0.40	0.04	5.25	2.19	1.65	127	24

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)	Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
2073.40	SWC 444	0.21	1.48	0.01	0.12	148.00	1.69	1.21	122	1
2080	445	0.13	0.68	0.07	0.16	9.71	0.81	1.35	50	5
2090	448	0.15	0.90	0.08	0.14	11.25	1.05	1.23	73	7
2100	447	0.18	0.98	0.22	0.16	4.45	1.16	1.29	76	17
2103.90	SWC 447	0.13	0.82	0.38	0.14	2.16	0.95	1.10	75	35
2112	448	0.11	0.88	0.35	0.11	2.51	0.99	1.18	75	30
2124	448	0.09	0.80	0.06	0.10	13.33	0.89	1.16	69	5
2136	447	0.09	0.78	0.31	0.10	2.52	0.87	1.16	67	27
2148	448	0.11	0.95	0.40	0.10	2.37	1.06	1.24	77	32
2159.50	SWC 447	0.22	1.39	2.22	0.14	0.63	1.61	1.28	109	173
2160	448	0.11	0.83	0.06	0.12	13.83	0.94	1.14	73	5
2172	447	0.14	1.06	0.12	0.12	8.83	1.20	1.15	92	10
2180.50	SWC 448	0.17	1.01	1.75	0.14	0.58	1.18	1.06	95	165
2184	447	0.14	0.92	0.47	0.13	1.96	1.06	1.09	84	43
2196	445	0.14	1.07	0.00	0.12	-	1.21	1.05	102	-
2205	444	0.10	0.82	0.17	0.11	4.82	0.92	1.14	72	15
2209.50	SWC 446	0.07	0.36	0.44	0.16	0.82	0.43	0.63	57	70
2217	447	0.10	0.74	0.00	0.12	-	0.84	1.05	71	-
2224	SWC 451	0.05	0.34	0.83	0.13	0.41	0.39	0.49	69	169
2229	446	0.08	0.69	0.00	0.10	-	0.77	0.95	73	-
2241	445	0.08	0.66	0.11	0.11	6.00	0.74	0.96	69	12

*; - can not be calculated.

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Table 2 : Rock Eval Pyrolysis

Depth (m)	Tmax (degC)	S1	S2	S3	PI	S2/S3	Ppot	TOC (%)	HI	OI
2445	453	0.00	0.00	0.00	-	-	0.00	0.03	-	-
2446.70	SWC 362	0.04	0.00	0.40	-	-	0.04	0.07	-	571
2457	412	0.04	0.00	0.00	-	-	0.04	0.04	-	-
2461.40	SWC 326	0.05	0.11	0.14	0.31	0.79	0.16	0.08	138	175
2468.30	SWC 450	0.21	0.38	0.31	0.36	1.23	0.59	0.67	57	46
2469	451	0.14	0.32	0.00	0.30	-	0.46	0.57	56	-
2481	451	0.25	0.55	0.00	0.31	-	0.80	0.86	64	-
2493	449	0.29	0.56	0.17	0.34	3.29	0.85	0.89	63	19
2496	452	0.34	0.73	0.22	0.32	3.32	1.07	0.94	78	23
2505	449	0.27	0.63	0.11	0.30	5.73	0.90	0.89	71	12
2517	454	0.24	0.48	0.11	0.33	4.36	0.72	0.77	62	14
2529	453	0.37	0.82	0.00	0.31	-	1.19	0.89	92	-
2541	451	0.40	0.83	0.11	0.33	7.55	1.23	1.12	74	10
2553	454	0.37	0.85	0.10	0.30	8.50	1.22	1.10	77	10
2562	452	0.42	1.00	0.25	0.30	4.00	1.42	1.50	67	17
2574	451	0.75	1.41	0.30	0.35	4.70	2.16	1.59	89	19
2586	456	0.35	0.66	0.23	0.35	2.87	1.01	1.33	50	17
2598	459	0.28	0.65	0.16	0.30	4.06	0.93	1.35	48	12
2610	434	0.07	0.00	0.31	-	-	0.07	0.23	-	135

*; - can not be calculated.

Table 3: Visual Kerogen Descriptions Well 7120/1-1

- 600 m: This sample has a "gas-prone" appearance. It comprises 85% Vitrinite (50% Vitrodetrinite and 35% amorphinite-V), 15% Inertinite (10% inertodetrinite and 5% fusinite and semi-fusinite) with only a trace of Liptinite as poor, small, spore/pollen fragments.
- 807.7 m: This sample has a very mixed composition-50% Vitrinite (30% vitrodetrinite, 10% amorphinite-V and 10% mixed telinite and collinite), 40% Liptinite (25% spore/pollen, 10% liptodetrinite and 5% amorphinite -L) and 10% Inertinite (dominantly inertodetrinite and ? semi-fusinite).
- 1013.5 m: Too little material for confident assessment.
- 1211.3 m: Dominantly "gas-prone" with 70% Vitrinite (50% vitrodetrinite, 10% amorphinite-V and 10% mixed telinite and collinite), 20% Liptinite (10% Liptodetrinite), 10% Inertinite (inertodetrinite).
- 1486.5 m: 70 % Vitrinite (40% as vitrodetrinite, 20% as amorphinite-V and 10% combined telinite and collinite), 20% Liptinite (10 % liptodetrinite, 5% amorphinite -L and 5% spore/pollen) and 10% Inertinite (inertodetrinite).
- 1660.5 m: This is a poor concentrate with dominantly (80%) "gas-prone" (vitrinitic) material. In addition there is 15% Inertinite and 5% Liptinite.

1794.2 m: Dominantly "gas-prone" with 70% Vitrinite (40% vitrodetrinite, 20% amorphinite -V and 10% telinite and collinite). There is also 20% Liptinite (10% liptodetrinite, 5% amorphinite -L and 5% spore/pollen) and 10% Inertinite (inertodetrinite).

1967.0 m: This sample has a "coaly" appearance. It consists of 65% Vitrinite, 15% Inertinite and 20% Liptinite.

2184 m: This sample has a very "gas-prone" appearance with 90% Vitrinitic material, 10% Liptinitic material and a trace of Inertinitic material.

2364 m: Too poor to give a confident assessment.

Vitrinite Reflectance and Spore Colour Indices, Well 7120/1-1

Depth (m)	Ro (%)	No.	Fluorescence	SCI (1-10)
500	0.42	6	Y/O Trace	NA
600	0.42	2	Y/O Trace	3-3.5
700	0.51	5	Y/O Trace	NA
800	0.51	20	Y/O Low	NA
807.7	0.50	5	Y+Y/O Low	3
900	0.64	20	Y/O Low	NA
1000	0.49	20	Y/O Low	NA
1013.5	0.51	20	MO Trace	3-3.5
1100	0.48	20	Y/O+LO Low	NA
1200	0.58	9	Y/O Low	NA
1211.3	NA			3.5-4.5
1300	0.53	20	Y/O+LO Low	NA
1486.5	NA			4.5-5
1535.0	0.50	3	LO+MO Low	NA
1660.5	NA			4.5-5 (v.few)
1747.2	0.52	20	LO+MO Low/Mod	NA
1794.2	NA			5-5.5
1937	0.68	14	LO+MO Low	NA
1967.0	NA			5.5-6/6.5
2073.4	0.67	20	LO+MO Trace	NA
2184	NA			6? Stained?
2292	0.73	20	MO Trace	NA
2364	NA			6-7
2469	0.75	20	No Spores	NA
2586	0.71	20	No Spores	NA