

Table 7c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6507/5-3

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28a β	25nor30a β	Sample
		29a β	29Ts	30d	29 β a	300	30a β	30 β a	30G	31a β S	
		31a β R	32a β S	32a β R	33a β S	33a β R	34a β S	34a β R	35a β S	35a β R	
2870.50	S/Sst	5363.2 11697.2 4153.6	4287.6 5390.4 3168.9	1939.6 2733.7 1980.9	4211.2 3093.9 1767.7	1189.0 0.0 964.8	6207.1 19331.4 884.2	4423.3 2440.1 528.5	5656.1 464.4 526.8	1868.9 5234.0 407.0	0004-1
2871.50	S/Sst	2580.9 6150.3 2261.2	2355.5 2844.9 1620.0	867.5 1484.8 1013.6	2129.6 1757.4 885.9	561.6 0.0 509.4	3359.9 10337.5 484.0	2491.1 1166.2 244.1	3094.0 318.1 265.8	948.8 2876.7 195.1	0005-1
2874.00	S/Sst	4380.3 10734.2 3808.4	3886.2 4903.2 2660.3	1506.3 2386.8 1684.4	3580.8 3013.5 1469.9	1014.1 0.0 812.9	5496.8 18093.3 744.1	4103.0 2362.5 438.4	5421.9 471.2 436.9	1550.9 4749.7 300.5	0006-1
2875.50	S/Sst	3785.9 8668.0 3101.6	3391.4 4068.3 2186.8	1279.8 2007.0 1418.6	3143.7 2336.9 1202.6	878.8 0.0 680.5	4562.3 15410.1 584.7	3529.7 1948.5 330.5	4520.5 308.6 344.1	1262.6 3929.8 237.4	0007-1
2878.00	S/Sst	4173.6 9981.6 3496.6	3598.9 4284.4 2488.8	1416.5 2101.5 1590.3	3250.8 2591.0 1299.3	953.1 0.0 723.8	4864.7 16923.7 626.2	3857.0 2210.5 388.6	4709.6 418.4 373.2	1310.7 4418.9 256.9	0008-1

Table 7d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6507/5-3

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Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2836.60	S/Sst	11364.6 7531.5 1388.4	3542.3 2679.4 1139.2	10776.8 2932.9 1954.8	6173.7 3396.2 1477.4	2147.5 1102.9 1986.0	2012.6 593.3	4462.9 2162.2	2794.7 2039.2	1621.8	0009-1
2843.00	bulk	7972.8 2384.2 408.6	2382.2 758.8 252.0	4673.2 923.5 406.6	2534.0 1009.6 294.3	954.3 357.1 459.8	878.8 203.7	1707.5 595.8	963.5 525.2	534.5	0062-0
2846.85	S/Sst	15034.9 8990.0 1609.3	4148.0 3168.3 1101.2	14463.2 3304.4 1886.2	8107.6 3926.8 1221.0	2853.7 1426.2 1981.9	2576.0 673.2	5690.1 2439.0	3340.4 2284.1	1858.1	0013-1
2853.59	S/Sst	6638.2 4126.6 679.0	2132.6 1496.0 579.4	5637.3 1544.1 1100.8	3301.7 1847.0 812.2	1198.6 604.5 996.8	1174.4 366.1	2552.2 1228.0	1465.5 1120.1	885.8	0015-1
2864.00	S/Sst	3221.3 3688.7 904.5	1074.5 1360.5 650.4	4266.1 1458.3 1030.2	2656.4 1769.4 780.5	1039.6 726.6 1050.7	1087.4 493.4	2057.0 1278.1	1324.5 1120.5	847.7	0001-1
2864.50	bulk	8638.0 4911.3 762.1	2833.0 1648.8 696.7	6946.1 1686.3 1177.5	3889.3 2107.3 895.3	1541.5 758.1 1060.4	1499.7 499.4	2870.7 1438.1	1627.0 1199.0	1083.8	0063-0

* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Table 7d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6507/5-3

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daR	27daS	28d β S	28d β R	28daR*	Sample
		29d β S*	28daS*	27aaR	29d β R	29daR	28aaS	29daS*	28 β β S		
		28aaR	29aaS	29 β β R	29 β β S	29aaR					
2868.50	S/Sst	3566.3 3946.1 872.0	1159.2 1467.7 679.9	4574.6 1640.1 1077.1	2710.1 1901.5 796.4	1164.3 767.7 1039.3	1169.7 538.5	2225.8 1325.3	1419.4 1257.3	937.0	0003-1
2870.50	S/Sst	11146.5 11932.0 2534.9	3749.7 4594.7 2073.9	16013.2 4782.6 3389.1	9233.0 6056.6 2470.3	3443.8 2291.8 3386.9	3454.0 1427.6	7279.3 3930.0	4304.3 4022.5	2594.6	0004-1
2871.50	S/Sst	6028.1 6504.4 1221.4	1977.7 2354.9 1031.3	8303.3 2444.8 1753.1	4810.1 3136.9 1318.5	1904.2 1141.1 1782.6	1949.0 641.5	3899.7 1986.8	2395.6 1918.6	1387.9	0005-1
2874.00	S/Sst	10413.9 10215.6 2302.9	3316.2 4016.3 1720.9	13663.3 4372.3 2719.4	8046.2 5279.2 1800.2	2935.1 2045.8 3003.9	3126.7 1271.2	6412.2 3358.5	3958.6 3238.9	2309.1	0006-1
2875.50	S/Sst	8800.6 8440.7 1890.8	2752.9 2960.6 1427.2	11556.7 3175.2 2272.2	6746.8 4029.3 1708.4	2556.2 1590.3 2436.8	2562.4 962.2	5391.4 2782.4	3290.4 2744.2	1827.2	0007-1
2878.00	S/Sst	9151.4 9354.0 2115.4	3058.5 3677.7 1530.4	12480.7 3868.2 2473.8	7423.8 4616.5 1811.9	2822.9 1773.7 2547.3	2918.3 1203.3	5908.4 3040.5	3665.1 2941.7	2156.5	0008-1

* 28daR coel with 27aaS, 29d β S coel with 27 β β R, 28daS coel with 27 β β S, 29daS coel with 28 β β R

Depth unit of measure: m

Depth	Lithology	27 β β R	27 β β S	28 β β R	28 β β S	29 β β R	29 β β S	30 β β R	30 β β S	Sample
2836.60	S/Sst	5642.7	3306.3	3292.8	2994.3	2973.2	2605.0	686.2	603.7	0009-1
2843.00	bulk	1543.2	728.4	706.5	599.9	489.8	394.8	106.7	104.6	0062-0
2846.85	S/Sst	6286.3	3592.9	3590.4	3040.4	2805.3	2382.8	616.7	590.5	0013-1
2853.59	S/Sst	3065.1	1682.9	1792.9	1497.0	1628.6	1400.4	406.3	360.7	0015-1
2864.00	S/Sst	2484.6	1442.6	1662.7	1378.2	1425.2	1240.1	371.7	338.3	0001-1
2864.50	bulk	3211.4	1675.9	1887.8	1488.7	1466.8	1292.9	409.3	344.6	0063-0
2868.50	S/Sst	2612.4	1484.4	1740.4	1446.7	1469.4	1297.5	372.0	327.1	0003-1
2870.50	S/Sst	8326.4	5036.1	5297.4	5111.3	4710.1	3978.0	1209.1	1109.9	0004-1
2871.50	S/Sst	4384.5	2570.3	2752.6	2577.7	2501.2	2291.9	648.7	576.0	0005-1
2874.00	S/Sst	7088.3	4410.2	4464.3	4257.5	4024.7	3491.7	1018.9	941.0	0006-1
2875.50	S/Sst	5951.1	3436.6	3826.0	3477.6	3271.6	2836.1	777.0	719.0	0007-1
2878.00	S/Sst	6343.9	3811.6	3903.0	3635.3	3421.8	2896.5	849.0	760.2	0008-1

Table 7f: Raw triterpane data (peak height) m/z 177 SIR for Well NOCS 6507/5-3

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Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28aß</u>	<u>25nor30aß</u>	<u>Sample</u>
2836.60	S/Sst	6506.3	550.7	0009-1
2843.00	bulk	3079.8	222.2	0062-0
2846.85	S/Sst	6911.1	583.4	0013-1
2853.59	S/Sst	2891.8	298.2	0015-1
2864.00	S/Sst	3015.9	255.4	0001-1
2864.50	bulk	4405.5	522.9	0063-0
2868.50	S/Sst	2558.2	242.4	0003-1
2870.50	S/Sst	7658.5	706.8	0004-1
2871.50	S/Sst	4007.6	342.7	0005-1
2874.00	S/Sst	7624.5	535.5	0006-1
2875.50	S/Sst	5665.4	401.0	0007-1
2878.00	S/Sst	5668.1	495.5	0008-1

Table 8a: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 6507/5-3

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
2836.60	S/Sst	0.69	0.67	0.41	0.41	0.49	0009-1
2843.00	bulk	0.81	0.72	0.48	0.54	0.59	0062-0
2846.85	S/Sst	0.79	0.76	0.45	0.49	0.54	0013-1
2853.59	S/Sst	0.76	0.74	0.46	0.47	0.55	0015-1
2864.50	S/Sst	0.60	0.57	0.33	0.32	0.42	0002-1
2864.50	bulk	0.69	0.68	0.38	0.38	0.45	0063-0
2868.50	S/Sst	0.59	0.58	0.29	0.30	0.34	0003-1
2870.50	S/Sst	0.61	0.61	0.30	0.31	0.35	0004-1
2871.50	S/Sst	0.61	0.60	0.29	0.30	0.35	0005-1
2874.00	S/Sst	0.71	0.69	0.37	0.39	0.43	0006-1
2875.50	S/Sst	0.61	0.61	0.30	0.31	0.34	0007-1
2878.00	S/Sst	0.67	0.65	0.33	0.35	0.39	0008-1

Ratio1: a1 / a1 + g1

Ratio2: b1 / b1 + g1

Ratio3: a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1

Ratio4: a1 / a1 + e1 + f1 + g1

Ratio5: a1 / a1 + d1

Table 8b: Variation in Monoaromatic Sterane Distribution (peak height) for Well NOCS 6507/5-3

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
2836.60	S/Sst	0.50	0.34	0.36	0.32	0009-1
2843.00	bulk	0.66	0.50	0.54	0.50	0062-0
2846.85	S/Sst	0.49	0.35	0.37	0.35	0013-1
2853.59	S/Sst	0.45	0.33	0.33	0.32	0015-1
2864.50	S/Sst	0.47	0.31	0.35	0.30	0002-1
2864.50	bulk	0.56	0.40	0.44	0.41	0063-0
2868.50	S/Sst	0.36	0.23	0.25	0.22	0003-1
2870.50	S/Sst	0.37	0.26	0.24	0.23	0004-1
2871.50	S/Sst	0.37	0.25	0.25	0.23	0005-1
2874.00	S/Sst	0.35	0.23	0.24	0.23	0006-1
2875.50	S/Sst	0.40	0.25	0.27	0.24	0007-1
2878.00	S/Sst	0.38	0.27	0.26	0.25	0008-1

Ratio1: A1 / A1 + E1
 Ratio2: B1 / B1 + E1

Ratio3: A1 / A1 + E1 + G1
 Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

Table 8c: Aromatisation of Steranes (peak height) for Well NOCS 6507/5-3

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
2836.60	S/Sst	0.80	0.51	0009-1
2843.00	bulk	0.92	0.29	0062-0
2846.85	S/Sst	0.91	0.29	0013-1
2853.59	S/Sst	0.83	0.49	0015-1
2864.50	S/Sst	0.78	0.53	0002-1
2864.50	bulk	0.82	0.54	0063-0
2868.50	S/Sst	0.80	0.50	0003-1
2870.50	S/Sst	0.76	0.58	0004-1
2871.50	S/Sst	0.82	0.47	0005-1
2874.00	S/Sst	0.83	0.44	0006-1
2875.50	S/Sst	0.82	0.47	0007-1
2878.00	S/Sst	0.83	0.44	0008-1

$$\text{Ratio1: } \frac{\text{C1+D1+E1+F1+G1+H1+I1}}{\text{C1+D1+E1+F1+G1+H1+I1} + \text{c1+d1+e1+f1+g1}}$$

$$\text{Ratio2: } \text{g1} / \text{g1} + \text{I1}$$

Table 8d: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 6507/5-3

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Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
2836.60	S/Sst	1713.3	1554.5	532.4	1785.5	891.7	794.3	756.8	0009-1
2843.00	bulk	1272.6	784.6	289.2	879.1	393.6	374.2	306.2	0062-0
2846.85	S/Sst	2011.0	1626.3	608.5	1738.1	849.4	734.4	525.9	0013-1
2853.59	S/Sst	2635.4	2325.7	752.3	2192.4	1173.4	952.8	827.3	0015-1
2864.50	S/Sst	1147.4	1018.8	508.9	1561.3	928.6	698.5	768.6	0002-1
2864.50	bulk	4448.2	4267.4	1767.4	5380.6	2758.6	2462.1	2015.5	0063-0
2868.50	S/Sst	1214.9	1163.6	679.1	2334.7	1024.6	1020.5	833.0	0003-1
2870.50	S/Sst	5051.6	5026.5	2809.5	9350.1	3807.1	4086.4	3202.3	0004-1
2871.50	S/Sst	3116.0	2976.4	1786.4	5667.8	2541.0	2627.5	2012.6	0005-1
2874.00	S/Sst	5354.8	5031.5	2398.1	6969.1	3008.1	3114.4	2228.7	0006-1
2875.50	S/Sst	4606.4	4704.4	2767.8	8808.6	3456.3	3954.9	2960.3	0007-1
2878.00	S/Sst	14443.4	13485.0	7696.1	22478.7	10085.6	9843.9	7206.8	0008-1

Table 8e: Raw monoaromatic sterane data (peak height) m/z 253 for Well NOCS 6507/5-3

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Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
2836.60	S/Sst	5950.3	3151.2	2263.7	1737.7	6038.6	1288.5	4745.0	2843.4	725.0	0009-1
2843.00	bulk	16663.4	8529.8	3171.2	2287.4	8588.7	1725.9	5582.5	3132.8	768.1	0062-0
2846.85	S/Sst	15022.8	8218.6	4678.3	4059.4	15394.2	2519.9	9677.8	5511.2	1317.5	0013-1
2853.59	S/Sst	8277.5	5072.9	3194.4	2639.0	10091.5	1716.2	6476.1	3653.8	866.3	0015-1
2864.50	S/Sst	4531.2	2278.5	1699.7	1366.3	5125.4	1081.7	3399.9	2467.0	693.9	0002-1
2864.50	bulk	29416.2	15880.0	7339.8	6229.0	23518.9	3647.1	14557.3	7466.7	1717.6	0063-0
2868.50	S/Sst	4465.3	2371.1	2587.9	2093.1	7805.5	1598.1	5805.9	3352.9	829.8	0003-1
2870.50	S/Sst	13844.0	8119.5	8289.9	6611.3	23489.8	4332.1	19413.1	10566.0	2293.4	0004-1
2871.50	S/Sst	12679.0	7338.5	6827.1	5812.2	21610.8	4030.6	15651.8	9004.1	2309.3	0005-1
2874.00	S/Sst	15702.8	8663.4	7671.0	7136.3	29495.7	4561.4	20029.7	12105.2	2889.4	0006-1
2875.50	S/Sst	21668.1	11149.8	11265.7	8661.4	32663.8	6395.2	25994.6	14471.5	3403.0	0007-1
2878.00	S/Sst	57670.1	34156.7	27917.4	25416.6	94348.0	15882.9	67832.6	39065.3	9238.5	0008-1

Table 1.: C1 to C7 hydrocarbons in HEADSPACE gas
(µl gas/kg rock)



Project: NOCS 6507/5-3

Well: NOCS 6507/5-3

Depth unit of measure: m

* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
700.00	5777	-	1			2	5778	2	0.0	0.50
750.00	11477	7	4	1	1	5	11490	13	0.1	1.30
800.00	14667	12	20	4	2	30	14705	39	0.3	1.48
850.00	36319	20	23	3	2	28	36367	48	0.1	1.70
900.00	11015	-	24	2	2	15	11043	28	0.3	1.28
950.00	13447	11	30	3	3	25	13494	47	0.3	1.15
1000.00	9483	-	11	1	1	9	9497	13	0.1	1.06
1050.00	13940	9	12	2	2	10	13964	25	0.2	1.32
1100.00	7214	-	7	1	1	5	7222	8	0.1	1.07
1150.00	7573	5	8	1	1	6	7588	15	0.2	1.30
1200.00	5412	-	4	1	1	4	5417	6	0.1	1.16
1250.00	8303	5	10	1	1	7	8320	17	0.2	1.12
1300.00	4845	-	11	1	1	7	4857	12	0.2	0.85
1350.00	7271	5	18	2	1	16	7297	26	0.4	2.10
1400.00	10442	-	24	3	2	20	10470	28	0.3	1.68
1450.00	9785	9	16	4	1	13	9815	30	0.3	2.85
1500.00	5897	6	8	2	1	9	5914	17	0.3	2.09
1550.00	17341	12	12	2	1	4	17369	27	0.2	1.88
1600.00	9353	18	26	4	1	8	9402	50	0.5	3.10
1650.00	20502	53	131	36	7	31	20729	227	1.1	4.91
1700.00	3855	13	23	10	2	7	3903	48	1.2	5.18
1750.00	13413	51	126	69	11	67	13670	257	1.9	6.16
1800.00	6494	18	35	11	3	13	6561	67	1.0	3.38
1850.00	12852	36	82	30	8	39	13009	157	1.2	3.73
1900.00	10020	32	50	11	5	20	10118	97	1.0	2.13
1990.00	4658	46	46	8	5	25	4763	105	2.2	1.49
2040.00	4028	62	24	3	2	12	4118	90	2.2	1.57

Table 1 : C1 to C7 hydrocarbons in HEADSPACE gas
(µl gas/kg rock)

Project: NOCS 6507/5-3

Well: NOCS 6507/5-3

Depth unit of measure: m

* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 ---- nC4
2090.00	4029	54	17	2	1	9	4104	74	1.8	1.98
2140.00	3660	46	17	1	1	6	3726	66	1.8	1.34
2190.00	1715	28	23	2	2	8	1771	56	3.2	1.16
2240.00	3254	60	34	7	7	15	3362	108	3.2	1.09
2290.00	2569	78	50	14	13	25	2724	155	5.7	1.07
2340.00	4944	152	82	26	23	41	5226	282	5.4	1.14
2390.00	2770	130	93	31	30	58	3053	283	9.3	1.03
2440.00	4351	327	250	83	89	207	5101	749	14.7	0.93
2490.00	3031	269	192	66	66	128	3624	593	16.4	1.00
2540.00	3024	242	164	52	48	106	3530	506	14.3	1.09
2590.00	3839	357	211	67	49	108	4523	684	15.1	1.35
2640.00	6833	794	465	124	92	212	8306	1474	17.7	1.34
2690.00	5317	620	342	72	46	66	6397	1080	16.9	1.57
2740.00	1662	435	433	86	69	88	2684	1022	38.1	1.26
2790.00	1730	491	606	112	117	85	3056	1326	43.4	0.96
2840.00	677	87	129	26	37	26	955	279	29.2	0.71
2890.00	2774	674	1086	215	405	478	5153	2380	46.2	0.53
2940.00	2471	617	830	223	359	554	4500	2028	45.1	0.62
2990.00	8974	1940	2319	706	716	929	14655	5681	38.8	0.99

Table 1b. Headspace Gas Table Carbon Isotope Data for NOCS well 6507/5-3

Depth	nC1	CO2	nC2	nC3	iC4	nC4	nC5
2190	-52.90	-17.78	-	-31.25	-	-	-29.00
2240	-39.05	-20.50	-	-	-	-	-27.25
2290	-51.82	-20.98	-	-	-	-	-27.57
2340	-13.63	-19.31	-	-	-	-	-29.00
2390	-35.96	-20.92	-	-29.28	-	-	-27.83
2440	-51.04	-17.00	-33.71	-33.90	-31.46	-35.16	-31.11
2490	-49.76	-23.89	-35.32	-34.18	-32.19	-35.25	-36.56
2540	-33.80	-13.99	-27.58	-28.78	-	-	-24.20
2590	-	-15.72	-	-	-	-	-26.96
2640	-34.33	-18.54	-29.53	-30.89	-30.11	-33.81	-
2690	-39.29	-17.99	-26.93	-28.42	-30.38	-30.39	-27.40
2740	-	-17.10	-	-	-	-	-28.31
2790	-23.94	-17.46	-22.83	-26.67	-25.33	-29.14	-27.58
2840	-53.53	-	-32.10	-30.48	-29.30	-31.70	-
2890	-	-18.74	-	-23.71	-	-26.57	-25.52
Notes:							
- : peak too small for analysis							
C5 values less reliable due to close elution / small peaks							

Table 2 : Lithology description for well NOCS 6507/5-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
700.00						0016
	0.60	90	S/Sst	: brn gy to lt gy, slt, cem, crs		0016-2L
		10	Cont	: lt gy, cem		0016-1L
750.00						0017
	0.73	100	S/Sst	: brn gy to lt gy, crs, cem		0017-2L
			tr Cont	: lt gy, cem		0017-1L
800.00						0018
	0.33	100	S/Sst	: lt gy, crs, l		0018-1L
850.00						0019
	0.10	100	S/Sst	: lt gy to m gy, crs, l		0019-1L
900.00						0020
	0.23	100	S/Sst	: lt gy, crs, cem, l		0020-1L
			tr Cont	: prp		0020-2L
950.00						0021
	0.43	100	S/Sst	: lt gy, crs, cem, l		0021-1L
			tr Cont	: prp		0021-2L
1000.00						0022
	0.41	100	S/Sst	: lt gy to m gy, crs, l		0022-1L
			tr Cont	: prp		0022-2L
1050.00						0023
	0.30	100	S/Sst	: lt gy to m gy, crs, l		0023-1L
			tr Cont	: prp		0023-2L

Table 2 : Lithology description for well NOCS 6507/5-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1100.00						0024	
	0.32	100	S/Sst	: lt gy to m gy, crs, l		0024-1L	
			tr Cont	: prp		0024-2L	
1150.00						0025	
	0.50	100	S/Sst	: lt gy to m gy, slt, cem, l		0025-1L	
1200.00						0026	
	0.17	100	S/Sst	: lt gy to m gy, slt, cem, l		0026-1L	
1250.00						0027	
	0.41	100	S/Sst	: lt gy to m gy, slt, cem, l		0027-1L	
			tr Cont	: prp		0027-2L	
1300.00						0028	
	0.38	100	S/Sst	: lt gy to m gy, slt, cem, l		0028-1L	
1350.00						0029	
	0.38	100	S/Sst	: lt gy to m gy, slt, cem, l		0029-1L	
			tr Sh/Clst:	drk gy		0029-2L	
1400.00						0030	
	0.49	100	S/Sst	: lt gy to m gy, slt, cem, l		0030-1L	
1450.00						0031	
	0.71	100	Sltst	: lt gy to m gy to brn gy, s		0031-1L	
1500.00						0032	
	0.75	95	Sltst	: lt gy to m gy to brn gy, s		0032-1L	
		5	Cont	: dd		0032-2L	

Table 2 : Lithology description for well NOCS 6507/5-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1550.00						0033	
	0.95	100	Sltst	:	lt gy to m gy to brn gy, s	0033-1L	
			tr Cont	:	st	0033-2L	
1600.00						0034	
	1.01	100	Sltst	:	lt gy to m gy to brn gy, argill,	0034-1L	
			tr Cont	:	s st	0034-2L	
1650.00						0035	
	0.87	100	Sltst	:	lt gy to m gy to brn gy, argill,	0035-1L	
			tr Cont	:	s st	0035-2L	
1700.00						0036	
	0.75	90	S/Sst	:	lt gy to m gy to brn gy, slt,	0036-1L	
					glauc		
		10	Ca	:	brn gy	0036-3L	
			tr Cont	:	prp	0036-2L	
1750.00						0037	
	0.74	90	S/Sst	:	lt gy to m gy to brn gy, slt,	0037-1L	
					glauc		
		10	Ca	:	brn gy	0037-3L	
			tr Cont	:	prp	0037-2L	
1800.00						0038	
	0.84	100	S/Sst	:	lt gy to m gy to brn gy, slt,	0038-1L	
					glauc, cem, l		
			tr Cont	:	prp	0038-2L	
			tr Ca	:	brn gy	0038-3L	
1850.00						0039	
	1.34	100	Sltst	:	lt gy to brn gy, s	0039-1L	
			tr Cont	:	st	0039-2L	

Table 2 : Lithology description for well NOCS 6507/5-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1900.00						0040
	1.23	90	Sltst	: lt gy to brn gy		0040-1L
		10	Sh/Clst:	gn gy, gy brn		0040-2L
1990.00						0041
	1.15	65	Sh/Clst:	gn gy, gy brn		0041-2L
		20	Ca	: w to lt gy		0041-3L
		15	Sltst	: lt gy to brn gy		0041-1L
2040.00						0042
	0.81	90	Sh/Clst:	gn gy, gy brn, gy red, gy gn		0042-2L
		10	Ca	: w to lt gy		0042-3L
		tr	Sltst	: lt gy to brn gy		0042-1L
2090.00						0043
	0.81	55	Sh/Clst:	gn gy, gy brn, gy red, gy gn		0043-1L
		40	Sltst	: drk gy		0043-3L
		5	Ca	: w to lt gy		0043-2L
2140.00						0044
	0.58	100	Sh/Clst:	m gy, gn gy, brn gy		0044-1L
		tr	Ca	: w to lt gy		0044-2L
		tr	Sltst	: drk gy		0044-3L
2190.00						0045
	0.79	100	Sh/Clst:	m gy, gn gy		0045-1L
		tr	Ca	: w to lt gy		0045-2L
		tr	Sltst	: drk gy		0045-3L
2240.00						0046
	0.95	100	Sh/Clst:	m gy, gn gy, brn gy		0046-1L
		tr	Sltst	: drk gy		0046-2L

Table 2 : Lithology description for well NOCS 6507/5-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2290.00						0047	
	0.91	100	Sh/Clst: m gy, gn gy, brn gy tr Cont : prp				0047-1L 0047-2L
2340.00						0048	
	1.04	100	Sh/Clst: m gy, gn gy, brn gy tr Cont : prp				0048-1L 0048-2L
2390.00						0049	
	1.11	100	Sh/Clst: m gy, gn gy, brn gy tr Ca : gy brn				0049-1L 0049-2L
2440.00						0050	
	1.26	100	Sh/Clst: m gy, gn gy, brn gy, slt tr Ca : gy brn				0050-1L 0050-2L
2490.00						0051	
	1.04	100	Sh/Clst: m gy, lt gy, slt, s tr Ca : gy brn tr Cont : st				0051-1L 0051-2L 0051-3L
2540.00						0052	
	1.16	100	Sh/Clst: m gy, lt gy, slt tr Ca : gy brn tr Cont : st				0052-1L 0052-2L 0052-3L
2590.00						0053	
	1.27	100	Sh/Clst: m gy, lt gy, slt tr Ca : gy brn tr Cont : st				0053-1L 0053-2L 0053-3L

Table 2 : Lithology description for well NOCS 6507/5-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2640.00						0054
	1.22	100	Sh/Clst:	m gy, lt gy, slt		0054-1L
			tr Ca	: gy brn		0054-2L
			tr S/Sst	: lt gy		0054-3L
2690.00						0055
	1.11	100	Sh/Clst:	m gy, lt gy, slt		0055-1L
			tr Ca	: gy brn		0055-2L
			tr S/Sst	: lt gy		0055-3L
2740.00						0056
	1.21	100	Sh/Clst:	m gy, lt gy, slt		0056-1L
			tr Ca	: gy brn		0056-2L
			tr Cont	: st		0056-3L
2790.00						0057
	1.23	100	Sh/Clst:	m gy, lt gy, slt		0057-1L
			tr Ca	: gy brn		0057-2L
			tr S/Sst	: lt gy		0057-3L
2836.60	ccp					0009
			100 S/Sst	: lt gy		0009-1L
2838.55	ccp					0010
			100 S/Sst	: w, glauc		0010-1L
2840.00						0058
	1.20	80	Sh/Clst:	m gy, slt		0058-1L
		15	Sh/Clst:	lt gy to gn gy to brn gy		0058-4L
		5	S/Sst	: lt gy, l		0058-3L
			tr Ca	: gy brn		0058-2L

Table 2 : Lithology description for well NOCS 6507/5-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2844.57	ccp					0011	
		100	S/Sst	:	lt gy	0011-1L	
2846.65	ccp					0012	
		100	S/Sst	:	w, glauc, l, f	0012-1L	
2846.85	ccp					0013	
		100	S/Sst	:	w, glauc, l, f	0013-1L	
2849.68	ccp					0014	
		100	S/Sst	:	lt gy	0014-1L	
2853.59	ccp					0015	
		100	S/Sst	:	lt gy	0015-1L	
2864.00	swc					0001	
		100	S/Sst	:	lt gy to w	0001-1L	
2864.50	swc					0002	
		100	S/Sst	:	lt gy to w	0002-1L	
2868.50	swc					0003	
		65	Sh/Clst:	drk	gy	0003-2L	
		35	S/Sst	:	w to gn, crs, glauc	0003-1L	
2870.50	swc					0004	
		100	S/Sst	:	w, glauc	0004-1L	

Table 2 : Lithology description for well NOCS 6507/5-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2871.50	swc					0005	
		80	S/Sst	: w, glauc, argill		0005-1L	
		20	Sh/Clst:	drk gy		0005-2L	
2874.00	swc					0006	
		80	S/Sst	: lt gy to w, glauc, argill, carb		0006-1L	
		20	Sh/Clst:	drk gy to blk, carb		0006-2L	
2875.50	swc					0007	
		100	S/Sst	: w to gn, glauc, crs, carb, l		0007-1L	
			tr Coal	: blk		0007-2L	
2878.00	swc					0008	
		100	S/Sst	: w to lt gy, glauc, carb		0008-1L	
2890.00						0059	
	1.10	85	Sh/Clst:	m gy, slt		0059-1L	
		15	S/Sst	: lt gy, crs, l		0059-3L	
			tr Ca	: gy brn		0059-2L	
			tr Sh/Clst:	lt gy to gn gy to brn gy		0059-4L	
2940.00						0060	
	0.18	65	S/Sst	: w to lt gy, crs, l		0060-3L	
		35	Sh/Clst:	lt gy to m gy, gn gy, gy red, slt		0060-1L	
			tr Ca	: gy brn		0060-2L	
2990.00						0061	
	1.14	100	Sh/Clst:	m gy to lt gy, slt		0061-1L	
			tr Ca	: gy brn		0061-2L	
			tr S/Sst	: w to lt gy, crs, l		0061-3L	

Table 1A: Light Hydrocarbons from Whole Oil GC for NOCS 6507/5-3

Well	Description	2,2DMC4	2,3DMC4	nC6	MCyC5	Benz	Sample
2843m	COND 1.15	0.05	0.10	2.52	1.42	0.08	U04/0062
2864.5m	COND 1.03	0.06	0.10	2.74	1.58	0.10	U04/0063

Table 1B: Light Hydrocarbons from Whole Oil GC for NOCS 6507/5-3

Well	Description	CyC6	2MC6	1,3ci- 3MC6	1,3tr- DMCyC5	1,2tr- DMCyC5	nC7	MCyC6	Tol	nC8	p/m- Xylene	Sample	
2843m	COND 1.15	2.58	2.13	1.63	0.49	0.46	1.00	5.81	8.63	1.76	9.52	4.39	U04/0062
2864.5m	COND 1.03	2.84	2.00	1.69	0.52	0.49	1.01	5.94	9.13	1.85	9.25	4.30	U04/0063

Table 1c: Thompson's indices for NOCS 6507/5-3

Well	Description	A	B	X	W	C	I	F	H	U	R	S	Sample
2843m	COND 1.15	0.03	0.30	0.46	0.31	0.74	1.93	0.67	25.45	1.82	2.73	50.40	U04/0062
2864.5m	COND 1.03	0.04	0.31	0.46	0.35	0.73	1.83	0.65	25.04	1.80	2.97	45.67	U04/0063

THOMPSON'S INDICES

$$A = \frac{\text{Benzene}}{nC6}$$

$$B = \frac{\text{Toluene}}{nC7}$$

$$X = \frac{\text{p/m-xylene}}{nC8}$$

$$W = \frac{\text{Benzene} * 10}{\text{CyC6}}$$

$$C = \frac{nC6 + nC7}{\text{CyC6} + \text{MCyC6}}$$

$$I = \frac{2MC6 + 3MC6}{1,3ciDMCyC5 + 1,3trDMCyC5 + 1,2trDMCyC5}$$

$$F = \frac{nC7}{\text{MCyC6}}$$

$$H = \frac{nC7 * 100}{\text{CyC6} + 2MC6 + 2,3DMC4 + 3MC6 + 1,3ciDMCyC5 + 1,3trDMCyC5 + 1,2trDMCyC5 + nC7 + \text{MCyC6}}$$

$$U = \frac{\text{CyC6}}{\text{MCyC5}}$$

$$R = \frac{nC7}{2MC6}$$

$$S = \frac{nC6}{2,2DMC4}$$

Table 2a: MPLC Bulk Composition: Weight of Oil and Fraction for NOCS 6507/5-3

Well	Description	Whole oil (mg)	Light (mg)	Topped (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	Sample
2843m	COND 1.15	123.3	49.2	74.1	61.9	9.3	0.9	2.0	71.2	2.9	U04/0062
2864.5m	COND 1.03	96.2	36.2	60.0	50.2	7.4	0.2	2.2	57.6	2.4	U04/0063

Table 2b: MPLC Bulk Composition: Comparison of topped oil (%) for NOCS 6507/5-3

Well	Description	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
2843m	COND 1.15	83.53	12.59	1.21	2.67	100.00	96.12	3.88	-	0.01	U04/0062
2864.5m	COND 1.03	83.68	12.27	0.33	3.72	100.00	95.95	4.05	-	0.00	U04/0063

Table 2c: MPLC Bulk Composition: Ratios in topped oil for NOCS 6507/5-3

Well	Description	Sat	HC	Asp	Sample
		Aro	Non-HC	NSO	
2843m	COND 1.15	6.64	24.74	0.45	U04/0062
2864.5m	COND 1.03	6.82	23.68	0.09	U04/0063

Table 3: Saturated Hydrocarbon Ratios (peak area) for NOCS 6507/5-3

<u>Well</u>	<u>Description</u>	<u>Pristane</u> <u>nC17</u>	<u>Pristane</u> <u>Phytane</u>	<u>Pristane/nC17</u> <u>Phytane/nC18</u>	<u>Phytane</u> <u>nC18</u>	<u>CPI1</u>	<u>nC17</u> <u>nC17+nC27</u>	<u>Sample</u>
2843m	COND 1.15	0.78	1.87	1.46	0.53	1.26	0.97	U04/0062
2864.5m	COND 1.03	0.77	1.88	1.53	0.50	1.10	0.95	U04/0063

Table 4a: Aromatic Hydrocarbon Ratios (peak area) for NOCS 6507/5-3

Well	Description	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
2843m	COND 1.15	1.88	11.90	0.43	-	-	-	-	-	-	-	U04/0062
2864.5m	COND 1.03	1.65	-	0.52	-	-	-	-	-	-	-	U04/0063

Table 4b: Aromatic Hydrocarbon Ratios (peak area) for NOCS 6507/5-3

Well	Description	F1	F2	Sample
2843m	COND 1.15	-	-	U04/0062
2864.5m	COND 1.03	-	-	U04/0063

Table 5a: Variation in Triterpane Distribution (peak height) SIR for NOCS 6507/5-3

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
2843m	COND 1.15	0.67	0.40	0.23	0.74	0.43	0.16	0.44	0.60	0.31	1.45	0.89	0.45	0.18	60.52	U04/0062
2864.5m	COND 1.03	0.68	0.41	0.19	0.67	0.40	0.13	0.29	0.44	0.23	0.60	0.90	0.42	0.15	62.28	U04/0063

List of Triterpane Distribution Ratios

Ratio 1: 27Tm / 27Ts

Ratio 2: 27Tm / 27Tm+27Ts

Ratio 3: 27Tm / 27Tm+30aβ+30βa

Ratio 4: 29aβ / 30aβ

Ratio 5: 29aβ / 29aβ+30aβ

Ratio 6: 30d / 30aβ

Ratio 7: 28aβ / 30aβ

Ratio 8: 28aβ / 29aβ

Ratio 9: 28aβ / 28aβ+30aβ

Ratio 10: 24/3 / 30aβ

Ratio 11: 30aβ / 30aβ+30βa

Ratio 12: 29aβ+29βa / 29aβ+29βa+30aβ+30βa

Ratio 13: 29βa+30βa / 29aβ+30aβ

Ratio 14: 32aβS / 32aβS+32aβR (%)

Table 5b: Variation in Sterane Distribution (peak height) SIR for NOCS 6507/5-3

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
2843m	COND 1.15	0.83	35.41	66.32	2.08	0.74	0.88	0.78	0.50	0.55	1.52	U04/0062
2864.5m	COND 1.03	0.80	39.65	70.23	1.51	0.75	0.75	0.61	0.54	0.66	1.95	U04/0063

 List of Sterane Distribution Ratios

Ratio 1: $27\beta S / 27\beta S + 27\alpha R$

Ratio 2: $29\alpha S / 29\alpha S + 29\alpha R$ (%)

Ratio 3: $2 * (29\beta R + 29\beta S) / (29\alpha S + 29\alpha R + 2 * (29\beta R + 29\beta S))$ (%)

Ratio 4: $27\beta S + 27\beta R + 27\alpha R + 27\alpha S / 29\beta S + 29\beta R + 29\alpha R + 29\alpha S$

Ratio 5: $29\beta R + 29\beta S / 29\beta R + 29\beta S + 29\alpha S$

Ratio 6: $21\alpha + 22\alpha / 21\alpha + 22\alpha + 29\alpha S + 29\beta R + 29\beta S + 29\alpha R$

Ratio 7: $21\alpha + 22\alpha / 21\alpha + 22\alpha + 28\alpha S + 28\alpha R + 29\alpha R + 29\alpha S + 29\beta R + 29\beta S + 29\alpha R$

Ratio 8: $29\beta R + 29\beta S / 29\alpha S + 29\beta R + 29\beta S + 29\alpha R$

Ratio 9: $29\alpha S / 29\alpha R$

Ratio 10: $29\beta R + 29\beta S / 29\alpha R$

Table 5c: Raw triterpane data (peak height) m/z 191 SIR for NOCS 6507/5-3

Well	Descript.	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aβ	25nor30aβ	Sample
		29aβ	29Ts	30d	29βa	300	30aβ	30βa	30G	31aβS	
		31aβR	32aβS	32aβR	33aβS	33aβR	34aβS	34aβR	35aβS	35aβR	
2843m	COND 1.15	4381.7 1880.5 492.0	3673.9 820.8 298.5	1113.4 396.3 194.7	1951.7 460.3 139.0	650.1 0.0 105.1	1302.7 2541.7 0.0	875.0 317.4 0.0	1128.4 0.0 0.0	355.4 559.4 0.0	U04/0062
2864.5m	COND 1.03	4952.3 4516.6 1408.5	4073.9 1999.3 1150.7	1351.2 897.0 697.0	2690.3 967.9 681.7	778.7 179.2 358.5	2622.4 6779.8 294.8	1793.4 733.8 190.2	1972.5 161.5 200.2	879.4 1832.6 112.6	U04/0063

Table 5d: Raw sterane data (peak height) m/z 217 SIR for NOCS 6507/5-3

Well	Descript.	21a	22a	27dβS	27dβR	27daR	27daS	28dβS	28dβR	28daR*	Sample
		29dβS*	28daS*	27aaR	29dβR	29daR	28aaS	29daS*	28ββS		
		28aaR	29aaS	29ββR	29ββS	29aaR					
2843m	COND 1.15	7972.8 2384.2 408.6	2382.2 758.8 252.0	4673.2 923.5 406.6	2534.0 1009.6 294.3	954.3 357.1 459.8	878.8 203.7	1707.5 595.8	963.5 525.2	534.5	U04/0062
2864.5m	COND 1.03	8638.0 4911.3 762.1	2833.0 1648.8 696.7	6946.1 1686.3 1177.5	3889.3 2107.3 895.3	1541.5 758.1 1060.4	1499.7 499.4	2870.7 1438.1	1627.0 1199.0	1083.8	U04/0063

* 28daR coel with 27aaS, 29dβS coel with 27ββR, 28daS coel with 27ββS, 29daS coel with 28ββR

Table 5e. Raw sterane data (peak height) m/z 218 SIR for NOCS 6507/5-3

Well	Descript.	27 β BR	27 β BS	28 β BR	28 β BS	29 β BR	29 β BS	30 β BR	30 β BS	Sample
2843m	COND 1.15	1543.2	728.4	706.5	599.9	489.8	394.8	106.7	104.6	U04/0062
2864.5m	COND 1.03	3211.4	1675.9	1887.8	1488.7	1466.8	1292.9	409.3	344.6	U04/0063

Table 5f: Raw triterpane data (peak height) m/z 177 SIR for NOCS 6507/5-3

Well	Descript.	25nor28a β	25nor30a β	Sample
2843m	COND 1.15	3079.8	222.2	U04/0062
2864.5m	COND 1.03	4405.5	522.9	U04/0063

Table 6a: Variation in Triaromatic Sterane Distribution (peak height) for NOCS 6507/5-3

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
2843m	COND 1.15	0.81	0.72	0.48	0.54	0.59	U04/0062
2864.5m	COND 1.03	0.69	0.68	0.38	0.38	0.45	U04/0063

Ratio1: a1 / a1 + g1

Ratio2: b1 / b1 + g1

Ratio3: a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1

Ratio4: a1 / a1 + e1 + f1 + g1

Ratio5: a1 / a1 + d1

Table 6b: Variation in Monoaromatic Sterane Distribution (peak height) for NOCS 6507/5-3

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Sample
2843m	COND 1.15	0.66	0.50	0.54	0.50	U04/0062
2864.5m	COND 1.03	0.56	0.40	0.44	0.41	U04/0063

Ratio1: A1 / A1 + E1

Ratio2: B1 / B1 + E1

Ratio3: A1 / A1 + E1 + G1

Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

Table 6c: Aromatisation of Steranes (peak height) for NOCS 6507/5-3

Well	Descript.	Ratio1	Ratio2	Sample
2843m	COND 1.15	0.92	0.29	U04/0062
2864.5m	COND 1.03	0.82	0.54	U04/0063

$$\text{Ratio1: } \frac{C1+D1+E1+F1+G1+H1+I1}{C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1}$$

$$\text{Ratio2: } g1 / g1 + I1$$

Table 6d: Raw triaromatic sterane data (peak height) m/z 231 for NOCS 6507/5-3

Well	Descript.	a1	b1	c1	d1	e1	f1	g1	Sample
2843m	COND 1.15	1272.6	784.6	289.2	879.1	393.6	374.2	306.2	U04/0062
2864.5m	COND 1.03	4448.2	4267.4	1767.4	5380.6	2758.6	2462.1	2015.5	U04/0063

Table 6e: Raw monoaromatic sterane data (peak height) m/z 253 for NOCS 6507/5-3

Well	Descript.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
2843m	COND 1.15	16663.4	8529.8	3171.2	2287.4	8588.7	1725.9	5582.5	3132.8	768.1	U04/0062
2864.5m	COND 1.03	29416.2	15880.0	7339.8	6229.0	23518.9	3647.1	14557.3	7466.7	1717.6	U04/0063

Table 7a: Tabulation of carbon isotope data on oils for NOCS 6507/5-3

Well	Descript.	Whole oil	Topped oil	Saturated	Aromatic	NSO	Asphaltenes	Sample
2843m	COND 1.15	-28.18	-	-28.95	-27.23	-28.60	-28.67	U04/0062
2864.5m	COND 1.03	-28.17	-	-28.76	-27.66	-28.56	-28.64	U04/0063

Table 7b: Tabulation of cv values from carbon isotope data for NOCS 6507/5-3

Well	Descript.	Saturated	Aromatic	cv value	Sample
2843m	COND 1.15	-28.95	-27.23	1.14	U04/0062
2864.5m	COND 1.03	-28.76	-27.66	-0.29	U04/0063