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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|----------|------------------------------------|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2776.00 | ccp | | | | | 0230 |
| | 1.07 | 100 | S/Sst | : w to lt gy, pl y brn, mic, glauc | | 0230-1L |
| 2777.00 | ccp | | | | | 0231 |
| | | 100 | Sltst | : w to lt gy, pl y brn, mic, glauc | | 0231-1L |
| 2778.00 | ccp | | | | | 0232 |
| | | 100 | S/Sst | : w to y gy, mic, glauc | | 0232-1L |
| 2779.00 | ccp | | | | | 0233 |
| | | 100 | S/Sst | : w to y gy, mic, glauc | | 0233-1L |
| 2780.00 | | | | | | 0136 |
| | | 85 | S/Sst | : w, f, l | | 0136-3L |
| | | 10 | Sh/Clst: | m gy to drk gy, mic | | 0136-1L |
| | | 5 | Kaolin | : w | | 0136-4L |
| | | tr | Sh/Clst: | gy red to pl red, calc | | 0136-2L |
| | | tr | Cont | : prp | | 0136-5L |
| 2780.00 | ccp | | | | | 0234 |
| | | 100 | S/Sst | : w to y gy, mic, glauc | | 0234-1L |
| 2781.00 | ccp | | | | | 0235 |
| | | 100 | Sltst | : y gy, m drk gy, mic, glauc | | 0235-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample | |
|---------|------|-----|-----------------------|--------------------------------------|-----|---------|--|
| Int Cvd | TOC% | % | Lithology description | | | | |
| 2782.00 | ccp | | | | | 0236 | |
| | | 100 | Sltst | : brn gy to brn blk, mic | | 0236-1L | |
| 2782.75 | ccp | | | | | 0237 | |
| | | 100 | Sltst | : y gy, s, mic, glauc | | 0237-1L | |
| | | | tr Coal | : blk | | 0237-2L | |
| 2783.00 | ccp | | | | | 0239 | |
| | | 100 | S/Sst | : w to lt gy to pl y brn, mic, glauc | | 0239-1L | |
| 2783.20 | ccp | | | | | 0238 | |
| | | 100 | Sltst | : w to y gy to lt gy, s, mic, glauc | | 0238-1L | |
| | | | tr Coal | : blk | | 0238-2L | |
| 2784.00 | ccp | | | | | 0240 | |
| | | 100 | S/Sst | : w to lt gy, mic, glauc, f | | 0240-1L | |
| 2785.00 | ccp | | | | | 0241 | |
| | | 100 | Sltst | : w to lt brn to drk gy, mic, glauc | | 0241-1L | |
| 2786.00 | ccp | | | | | 0242 | |
| | | 100 | Sltst | : y gy, drk gy, mic, lam | | 0242-1L | |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|----------|--------------------------------------|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2787.00 | ccp | | | | | 0243 |
| | | 100 | S/Sst | : w to lt brn gy to m gy, mic, glauc | | 0243-1L |
| 2788.00 | ccp | | | | | 0244 |
| | | 100 | S/Sst | : y gy, drk gy, mic, lam | | 0244-1L |
| 2789.00 | | | | | | 0137 |
| | | 85 | S/Sst | : w, f, l | | 0137-3L |
| | | 10 | Sh/Clst: | m gy to drk gy, mic | | 0137-1L |
| | | 5 | Kaolin | : w | | 0137-4L |
| | | tr | Sh/Clst: | gy red to pl red, calc | | 0137-2L |
| | | tr | Cont | : prp | | 0137-5L |
| 2789.00 | ccp | | | | | 0245 |
| | | 100 | Sltst | : w to lt brn gy, mic, glauc | | 0245-1L |
| 2790.00 | ccp | | | | | 0246 |
| | | 100 | S/Sst | : w to lt brn gy, mic, glauc, f | | 0246-1L |
| 2791.00 | ccp | | | | | 0247 |
| | | 100 | S/Sst | : w to lt brn gy, mic, glauc, f | | 0247-1L |
| 2792.00 | ccp | | | | | 0248 |
| | | 100 | S/Sst | : w to lt brn gy, mic, glauc, f | | 0248-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|-----|---|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2793.00 | ccp | | | | | 0249 |
| | | | 100 | S/Sst : w to lt brn gy, mic, glauc, f | | 0249-1L |
| 2794.00 | ccp | | | | | 0250 |
| | | | 100 | S/Sst : w to lt brn gy, mic, glauc, f | | 0250-1L |
| 2795.00 | ccp | | | | | 0251 |
| | | | 100 | S/Sst : w, mic, glauc, f | | 0251-1L |
| 2796.00 | ccp | | | | | 0252 |
| | | | 100 | S/Sst : w to lt brn gy, mic, glauc, f, l | | 0252-1L |
| 2797.00 | ccp | | | | | 0253 |
| | | | 100 | S/Sst : w to lt brn gy, mic, glauc, f, st, l | | 0253-1L |
| 2798.00 | | | | | | 0138 |
| | | | 90 | S/Sst : w, f, l | | 0138-2L |
| | | | 10 | Sh/Clst: lt gy to m gy, mic | | 0138-1L |
| | | | tr | Kaolin : w | | 0138-3L |
| | | | tr | Cont : prp | | 0138-4L |
| 2798.00 | ccp | | | | | 0254 |
| | | | 100 | S/Sst : w to lt brn gy to pl y brn, mic, glauc, f, st, l | | 0254-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample | |
|---------|------|-----|-----------------------|--|-----|---------|--|
| Int Cvd | TOC% | % | Lithology description | | | | |
| 2799.00 | ccp | | | | | 0255 | |
| | | 100 | S/Sst | : w to lt brn gy to pl y brn, mic, glauc, f, st, l | | 0255-1L | |
| 2800.00 | ccp | | | | | 0256 | |
| | | 100 | S/Sst | : w to lt brn gy to pl y brn, mic, glauc, f, st, l | | 0256-1L | |
| 2801.00 | ccp | | | | | 0257 | |
| | | 100 | S/Sst | : w to lt brn gy to pl y brn, mic, glauc, f, st, l | | 0257-1L | |
| 2801.47 | ccp | | | | | 0258 | |
| | | 100 | S/Sst | : w to lt brn gy, mic, glauc, f, l | | 0258-1L | |
| 2802.00 | ccp | | | | | 0259 | |
| | | 100 | S/Sst | : w to lt brn gy, mic, glauc, f, l | | 0259-1L | |
| 2803.00 | ccp | | | | | 0260 | |
| | | 100 | S/Sst | : w to lt brn gy, mic, glauc, f, l | | 0260-1L | |
| 2804.00 | ccp | | | | | 0261 | |
| | | 100 | S/Sst | : w to lt brn gy, mic, glauc, f, l | | 0261-1L | |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|-----|-----------------------|--|-----|---------|
| Int Cvd | TOC% | % | Lithology description | | | |
| 2805.00 | ccp | | | | | 0262 |
| | | 100 | S/Sst | : w to lt gy, mic, glauc, f | | 0262-1L |
| 2806.00 | ccp | | | | | 0263 |
| | | 100 | S/Sst | : w to lt gy to m gy, mic, glauc, f | | 0263-1L |
| 2806.50 | ccp | | | | | 0264 |
| | | 100 | S/Sst | : w to lt gy to lt brn gy, mic, glauc, f | | 0264-1L |
| 2806.60 | ccp | | | | | 0265 |
| | | 100 | Sltst | : w, m gy to drk gy, mic, lam | | 0265-1L |
| 2806.70 | ccp | | | | | 0266 |
| | | 100 | Sltst | : w, m gy to drk gy, mic, glauc, lam | | 0266-1L |
| 2807.00 | | | | | | 0139 |
| | | 75 | S/Sst | : w, f, l | | 0139-2L |
| | | 10 | Sh/Clst: | lt gy to m gy, mic | | 0139-1L |
| | | 10 | Kaolin | : w | | 0139-3L |
| | | 5 | Sh/Clst: | gy red, calc | | 0139-4L |
| | | tr | Cont | : prp | | 0139-5L |
| 2811.00 | ccp | | | | | 0267 |
| | | 100 | S/Sst | : w to lt gy, mic, glauc, f, l | | 0267-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|----------|---|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2812.00 | ccp | | | | | 0268 |
| | | 100 | S/Sst | : w to lt gy to lt brn gy, glauc, f, l | | 0268-1L |
| 2813.00 | ccp | | | | | 0269 |
| | | 100 | S/Sst | : w to y gy to lt brn gy, pyr, glauc, l | | 0269-1L |
| 2814.00 | ccp | | | | | 0270 |
| | | 100 | S/Sst | : w to lt gy to m gy, pyr, glauc, l | | 0270-1L |
| 2815.00 | ccp | | | | | 0271 |
| | | 100 | S/Sst | : w to lt gy to lt brn gy, glauc, l | | 0271-1L |
| 2816.00 | | | | | | 0140 |
| | | 75 | S/Sst | : w, f, l | | 0140-2L |
| | | 10 | Sh/Clst: | lt gy to m gy, mic | | 0140-1L |
| | | 10 | Kaolin | : w | | 0140-3L |
| | | 5 | Sh/Clst: | gy red, calc | | 0140-4L |
| | | tr | Cont | : prp | | 0140-5L |
| 2816.00 | ccp | | | | | 0272 |
| | | 100 | S/Sst | : w to lt gy to lt brn gy, glauc, l | | 0272-1L |
| 2817.00 | ccp | | | | | 0273 |
| | | 100 | S/Sst | : w to lt gy to lt brn gy, glauc, l | | 0273-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|-----|-----------------------|--|-----|---------|
| Int Cvd | TOC% | % | Lithology description | | | |
| 2818.00 | ccp | | | | | 0274 |
| | | 100 | S/Sst | : w to lt gy to lt brn gy, glauc, l | | 0274-1L |
| 2819.00 | ccp | | | | | 0275 |
| | | 100 | S/Sst | : w to lt gy to lt brn gy, glauc, l | | 0275-1L |
| 2819.75 | ccp | | | | | 0276 |
| | | 100 | S/Sst | : w to lt brn gy to m gy, slt, mic, glauc, l | | 0276-1L |
| 2820.00 | ccp | | | | | 0277 |
| | | 100 | Slstst | : y gy, lt brn, drk gy, mic, lam | | 0277-1L |
| 2821.00 | ccp | | | | | 0278 |
| | | 100 | Slstst | : drk gy, mic, lam | | 0278-1L |
| 2822.00 | ccp | | | | | 0279 |
| | | 100 | Slstst | : w, lt brn, drk gy, mic, lam | | 0279-1L |
| 2823.00 | ccp | | | | | 0280 |
| | 1.11 | 100 | S/Sst | : w, lt brn gy, drk y brn, mic, glauc, f | | 0280-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample | |
|---------|------|-----|-----------------------|---|-----|---------|--|
| Int Cvd | TOC% | % | Lithology description | | | | |
| 2824.00 | ccp | | | | | 0281 | |
| | | 100 | S/Sst | : w, lt brn gy, drk y brn, mic, glauc, f | | 0281-1L | |
| 2825.00 | | | | | | 0141 | |
| | | 75 | S/Sst | : f, l | | 0141-2L | |
| | | 10 | Sh/Clst: | lt gy to m gy, mic | | 0141-1L | |
| | | 5 | Kaolin | : w | | 0141-3L | |
| | | 5 | Sh/Clst: | gy red, calc | | 0141-4L | |
| | | 5 | Cont | : prp | | 0141-5L | |
| 2825.00 | ccp | | | | | 0282 | |
| | 0.08 | 100 | S/Sst | : w, lt brn gy, drk y brn, mic, glauc, f | | 0282-1L | |
| 2825.20 | ccp | | | | | 0283 | |
| | | 100 | S/Sst | : w, lt brn gy, drk y brn, mic, glauc, f | | 0283-1L | |
| 2826.00 | ccp | | | | | 0284 | |
| | | 100 | S/Sst | : w, lt brn gy, drk y brn, mic, glauc, f | | 0284-1L | |
| 2827.00 | ccp | | | | | 0285 | |
| | | 100 | S/Sst | : w to lt brn to m gy, pyr, mic, glauc, f | | 0285-1L | |
| | | tr | Coal | : blk | | 0285-2L | |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|-----|--|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2828.00 | ccp | | | | | 0286 |
| | | | 100 | S/Sst : w to lt brn, mic, glauc, f | | 0286-1L |
| | | | tr | Coal : blk | | 0286-2L |
| 2828.80 | ccp | | | | | 0287 |
| | | | 100 | S/Sst : w to y gy to lt brn, mic, glauc, f | | 0287-1L |
| 2829.16 | ccp | | | | | 0288 |
| | | | 100 | S/Sst : w to y gy to lt brn, mic, glauc, f | | 0288-1L |
| 2830.00 | ccp | | | | | 0289 |
| | | | 70 | Sh/Clst: drk gy, pyr, mic | | 0289-2L |
| | | | 30 | S/Sst : w to m gy, f | | 0289-1L |
| 2830.26 | ccp | | | | | 0290 |
| | | | 100 | S/Sst : w to lt gy to lt brn, glauc, f, l | | 0290-1L |
| 2831.00 | ccp | | | | | 0291 |
| | | | 100 | S/Sst : w to lt gy to lt brn, glauc, f, l | | 0291-1L |
| 2832.00 | ccp | | | | | 0292 |
| | | | 100 | S/Sst : w to lt gy to lt brn, glauc, f, l | | 0292-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|-----|-----------------------|--|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2833.00 | ccp | | | | | 0293 |
| | | | 100 | S/Sst | : w to lt brn to lt brn gy, glauc, f, l | 0293-1L |
| 2834.00 | | | | | | 0142 |
| | | | 100 | S/Sst | : f, l | 0142-2L |
| | | | | tr Sh/Clst: | lt gy to m gy, mic | 0142-1L |
| | | | | tr Kaolin : | w | 0142-3L |
| | | | | tr Cont : | prp | 0142-4L |
| 2834.00 | ccp | | | | | 0294 |
| | | | 50 | S/Sst | : w to lt brn to lt brn gy, glauc, f, l | 0294-1L |
| | | | 50 | Sltst | : drk gy, mic | 0294-2L |
| 2835.00 | ccp | | | | | 0295 |
| | | | 50 | S/Sst | : w to lt brn to lt brn gy, glauc, f, l | 0295-1L |
| | | | 50 | Sltst | : drk gy, mic | 0295-2L |
| 2836.00 | ccp | | | | | 0296 |
| | | | 85 | Sltst | : drk gy, mic | 0296-2L |
| | | | 15 | S/Sst | : w to lt brn to lt brn gy, f, l | 0296-1L |
| 2837.00 | ccp | | | | | 0297 |
| | | | 85 | Sltst | : drk gy, mic | 0297-2L |
| | | | 15 | S/Sst | : w to lt brn to lt brn gy, f, l | 0297-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|----------|--|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2838.00 | ccp | | | | | 0298 |
| | 0.68 | 85 | Sltst | : drk gy, mic | | 0298-2L |
| | | 15 | S/Sst | : w to lt gy to lt brn, f, l | | 0298-1L |
| 2843.00 | | | | | | 0143 |
| | 5.68 | 80 | Sh/Clst: | ol blk, lt gy to m lt gy, drk gy, pl y brn, mic | | 0143-1L |
| | | 10 | Sh/Clst: | gy red | | 0143-7L |
| | | 5 | S/Sst | : w, f, l | | 0143-2L |
| | | 5 | Ca | : w, cly | | 0143-3L |
| | | tr | Cont | : prp | | 0143-4L |
| | | tr | Other | : pyr | | 0143-5L |
| | | tr | Coal | : blk | | 0143-6L |
| 2852.00 | | | | | | 0144 |
| | | 90 | Sh/Clst: | lt gy, pl y brn, mic | | 0144-1L |
| | | 5 | S/Sst | : w, f, l | | 0144-2L |
| | | 5 | Ca | : w, cly | | 0144-3L |
| | | tr | Cont | : prp | | 0144-4L |
| | | tr | Other | : pyr | | 0144-5L |
| | | tr | Coal | : blk | | 0144-6L |
| | | tr | Sh/Clst: | gy red | | 0144-7L |
| 2861.00 | | | | | | 0145 |
| | | 90 | Sh/Clst: | lt gy, pl y brn, mic | | 0145-1L |
| | | 5 | S/Sst | : w, f, l | | 0145-2L |
| | | 5 | Ca | : w, cly | | 0145-3L |
| | | tr | Cont | : prp | | 0145-4L |
| | | tr | Other | : pyr, mic, evap | | 0145-5L |
| | | tr | Coal | : blk | | 0145-6L |
| | | tr | Sh/Clst: | gy red | | 0145-7L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample | |
|---------|------|-----|-------------------------------------|-----|-----|---------|--|
| Int Cvd | TOC% | % | Lithology description | | | | |
| 2865.00 | swc | | | | | 0307 | |
| | 7.63 | 100 | Sh/Clst: gy blk to dsk y brn, mic | | | 0307-1L | |
| 2870.00 | | | | | | 0146 | |
| | | | 90 Sh/Clst: drk gy, pl y brn, mic | | | 0146-1L | |
| | | | 10 S/Sst : w, f, l | | | 0146-2L | |
| | | | tr Cont : prp | | | 0146-3L | |
| | | | tr Other : pyr, evap | | | 0146-4L | |
| 2879.00 | | | | | | 0147 | |
| | | | 65 Sh/Clst: drk gy, pl y brn, mic | | | 0147-1L | |
| | | | 25 S/Sst : w, f, l | | | 0147-2L | |
| | | | 10 Sh/Clst: gy red, pl y brn, calc | | | 0147-5L | |
| | | | tr Cont : prp | | | 0147-3L | |
| | | | tr Other : pyr, evap | | | 0147-4L | |
| 2888.00 | | | | | | 0148 | |
| | | | 65 Sh/Clst: drk gy, pl y brn, mic | | | 0148-1L | |
| | | | 25 S/Sst : w, f, l | | | 0148-2L | |
| | | | 10 Sh/Clst: gy red, pl y brn, calc | | | 0148-5L | |
| | | | tr Cont : prp | | | 0148-3L | |
| | | | tr Other : pyr, evap | | | 0148-4L | |
| 2897.00 | | | | | | 0149 | |
| | | | 85 Sh/Clst: drk gy to m drk gy, mic | | | 0149-1L | |
| | | | 10 Sh/Clst: gy red, pl y brn, calc | | | 0149-5L | |
| | | | 5 S/Sst : w to lt gy, f, l | | | 0149-2L | |
| | | | tr Cont : prp | | | 0149-3L | |
| | | | tr Other : pyr, evap | | | 0149-4L | |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|-----|--|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2906.00 | | | | | | 0150 |
| | | | | 95 Sh/Clst: lt gy, drk gy to m drk gy, mic | | 0150-1L |
| | | | | 5 S/Sst : w to lt gy, f, l | | 0150-2L |
| | | | | tr Cont : prp | | 0150-3L |
| | | | | tr Other : pyr, glauc | | 0150-4L |
| | | | | tr Sh/Clst: gy red, pl brn, pl y brn, calc | | 0150-5L |
| 2915.00 | | | | | | 0151 |
| | | | | 50 Sh/Clst: lt gy, drk gy to pl y brn, mic | | 0151-1L |
| | | | | 45 S/Sst : w to lt gy, f, l | | 0151-2L |
| | | | | 5 Sh/Clst: gy red, pl brn, pl y brn, calc | | 0151-5L |
| | | | | tr Cont : prp | | 0151-3L |
| | | | | tr Other : pyr, glauc, evap | | 0151-4L |
| 2924.00 | | | | | | 0152 |
| | | | | 40 Sh/Clst: drk gy to dsk y brn, mic | | 0152-1L |
| | | | | 35 S/Sst : w to lt gy, f, l | | 0152-2L |
| | | | | 20 Sh/Clst: lt gy | | 0152-6L |
| | | | | 5 Sh/Clst: gy red, pl y brn, calc | | 0152-5L |
| | | | | tr Cont : prp | | 0152-3L |
| | | | | tr Other : pyr, glauc, evap | | 0152-4L |
| 2933.00 | | | | | | 0153 |
| | | | | 40 Sh/Clst: drk gy to dsk y brn, mic | | 0153-1L |
| | | | | 35 S/Sst : w to lt gy, f, l | | 0153-2L |
| | | | | 20 Sh/Clst: lt gy | | 0153-6L |
| | | | | 5 Sh/Clst: gy red, pl y brn, calc | | 0153-5L |
| | | | | tr Cont : prp | | 0153-3L |
| | | | | tr Other : pyr, glauc, evap | | 0153-4L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|-----|--------------------------------------|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2943.00 | swc | | | | | 0309 |
| | | 2.43 | 100 | Sltst : gy blk, mic | | 0309-1L |
| 2951.00 | | | | | | 0154 |
| | | | | 30 Sh/Clst: ol blk to dsk y brn, mic | | 0154-1L |
| | | | | 25 S/Sst : w to lt gy, f, l | | 0154-2L |
| | | | | 20 Sh/Clst: lt gy | | 0154-6L |
| | | | | 15 Sh/Clst: gy red, lt or, calc | | 0154-5L |
| | | | | 10 Kaolin : w | | 0154-7L |
| | | | | tr Cont : prp | | 0154-3L |
| | | | | tr Other : pyr, glauc | | 0154-4L |
| 2958.00 | swc | | | | | 0310 |
| | | 0.20 | 100 | Sltst : w to lt brn gy, calc, mic | | 0310-1L |
| 2960.00 | | | | | | 0155 |
| | | | | 30 Sh/Clst: ol blk to dsk y brn, mic | | 0155-1L |
| | | | | 20 S/Sst : w to lt gy, f, l | | 0155-2L |
| | | | | 20 Sh/Clst: lt gy | | 0155-6L |
| | | | | 15 Sh/Clst: gy red, lt or, calc | | 0155-5L |
| | | | | 10 Kaolin : w | | 0155-7L |
| | | | | 5 Sltst : w to lt gy | | 0155-8L |
| | | | | tr Cont : prp | | 0155-3L |
| | | | | tr Other : pyr, glauc | | 0155-4L |
| 2965.50 | swc | | | | | 0311 |
| | | | 100 | Sltst : y gy, drk gy, calc, cly, mic | | 0311-1L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|-----|--|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2969.00 | | | | | | 0156 |
| | | | | 40 S/Sst : w to lt gy, f, l | | 0156-2L |
| | | | | 35 Sh/Clst: ol blk to dsk y brn, mic | | 0156-1L |
| | | | | 15 Kaolin : w | | 0156-6L |
| | | | | 5 Sh/Clst: lt gy to lt or, calc | | 0156-5L |
| | | | | 5 Sltst : w to lt gy | | 0156-7L |
| | | | | tr Cont : prp | | 0156-3L |
| | | | | tr Other : pyr, glauc | | 0156-4L |
| 2971.00 | swc | | | | | 0312 |
| | 0.45 | 100 | | Sltst : w to lt gy, drk gy, calc, cly, mic | | 0312-1L |
| 2978.00 | | | | | | 0157 |
| | | | | 40 S/Sst : w to lt gy, f, l | | 0157-2L |
| | | | | 35 Sh/Clst: ol blk to dsk y brn, mic | | 0157-1L |
| | | | | 15 Kaolin : w | | 0157-6L |
| | | | | 5 Sh/Clst: lt gy to lt or, calc | | 0157-5L |
| | | | | 5 Sltst : w to lt gy | | 0157-7L |
| | | | | tr Cont : prp | | 0157-3L |
| | | | | tr Other : pyr, glauc | | 0157-4L |
| 2987.00 | | | | | | 0158 |
| | | | | 50 S/Sst : w to lt gy, f, l | | 0158-2L |
| | | | | 40 Sh/Clst: brn gy to m gy, mic | | 0158-1L |
| | | | | 10 Kaolin : w | | 0158-5L |
| | | | | tr Cont : prp | | 0158-3L |
| | | | | tr Other : pyr, glauc | | 0158-4L |
| | | | | tr Coal : blk to brn blk | | 0158-6L |
| | | | | tr Sltst : w to lt gy, mic | | 0158-7L |

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Table 2 : Lithology description for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Type | Grp | Frm | Age | Trb | Sample |
|---------|------|------|-------|------------------------------|-----|---------|
| Int | Cvd | TOC% | % | Lithology description | | |
| 2988.00 | swc | | | | | 0308 |
| | 1.79 | 100 | Sltst | : drk gy, mic | | 0308-1L |
| 2996.00 | | | | | | 0159 |
| | | | 45 | S/Sst : w to lt gy, f, l | | 0159-2L |
| | | | 40 | Sh/Clst: brn gy to m gy, mic | | 0159-1L |
| | | | 10 | Coal : blk to brn blk | | 0159-6L |
| | | | 5 | Kaolin : w | | 0159-5L |
| | | | tr | Cont : prp | | 0159-3L |
| | | | tr | Other : pyr, glauc | | 0159-4L |
| 3005.00 | | | | | | 0160 |
| | 0.14 | | 65 | S/Sst : w to lt gy, f, l | | 0160-2L |
| | | | 30 | Sh/Clst: m gy to drk gy, mic | | 0160-1L |
| | | | 5 | Coal : blk to brn blk | | 0160-6L |
| | | | tr | Cont : prp | | 0160-3L |
| | | | tr | Other : pyr, glauc | | 0160-4L |
| | | | tr | Kaolin : w | | 0160-5L |

Table 3 : Rock-Eval table for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | S1 | S2 | S3 | S2/S3 | TOC | HI | OI | PP | PI | Tmax | Sample |
|---------|-----|--------------------------------------|------|------|------|-------|------|-----|-----|-----|------|------|---------|
| 421.50 | swc | Sh/Clst: lt gy to lt brn gy | 0.03 | 0.18 | 1.47 | 0.12 | 0.37 | 49 | 397 | 0.2 | 0.14 | 407 | 0001-1L |
| 526.00 | swc | Sh/Clst: lt brn gy to brn gy | 0.04 | 0.18 | 1.07 | 0.17 | 0.37 | 49 | 289 | 0.2 | 0.18 | 421 | 0008-1L |
| 623.50 | swc | Sltst : lt gy to lt brn gy | 0.05 | 0.17 | 0.64 | 0.27 | 0.34 | 50 | 188 | 0.2 | 0.23 | 409 | 0015-1L |
| 730.00 | swc | Sh/Clst: lt gy to lt brn gy to ol gy | 0.04 | 0.18 | 1.15 | 0.16 | 0.36 | 50 | 319 | 0.2 | 0.18 | 421 | 0022-1L |
| 820.00 | swc | Sh/Clst: lt gy to m gy to dsk brn | 0.04 | 0.17 | 0.96 | 0.18 | 0.33 | 52 | 291 | 0.2 | 0.19 | 418 | 0028-1L |
| 923.50 | swc | Sh/Clst: brn gy to drk brn | 0.10 | 0.56 | 1.60 | 0.35 | 0.73 | 77 | 219 | 0.7 | 0.15 | 419 | 0035-1L |
| 1024.50 | swc | Sh/Clst: brn gy | 0.02 | 0.09 | 0.33 | 0.27 | 0.28 | 32 | 118 | 0.1 | 0.18 | 414 | 0041-1L |
| 1120.00 | swc | Sh/Clst: lt brn gy | 0.30 | 1.76 | 1.15 | 1.53 | 1.19 | 148 | 97 | 2.1 | 0.15 | 417 | 0051-1L |
| 1190.00 | swc | Sh/Clst: lt brn gy | 0.27 | 1.01 | 0.70 | 1.44 | 1.08 | 94 | 65 | 1.3 | 0.21 | 399 | 0058-1L |
| 1300.00 | cut | Sh/Clst: lt ol gy | 0.03 | 0.21 | 1.94 | 0.11 | 0.37 | 57 | 524 | 0.2 | 0.13 | 419 | 0084-1L |
| 1420.00 | cut | Sh/Clst: ol gy | 0.02 | 0.20 | 0.66 | 0.30 | 0.41 | 49 | 161 | 0.2 | 0.09 | 402 | 0087-1L |
| 1500.00 | cut | Sh/Clst: ol gy to ol blk | 0.01 | 0.14 | 0.64 | 0.22 | 0.33 | 42 | 194 | 0.2 | 0.07 | 413 | 0089-1L |
| 1620.00 | cut | Sh/Clst: lt ol gy to ol gy | 0.01 | 0.10 | 1.20 | 0.08 | 0.25 | 40 | 480 | 0.1 | 0.09 | 412 | 0092-1L |
| 1740.00 | cut | Sh/Clst: ol gy to lt ol gy | 0.02 | 0.21 | 0.99 | 0.21 | 0.41 | 51 | 241 | 0.2 | 0.09 | 421 | 0095-1L |

Table 3 : Rock-Eval table for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | S1 | S2 | S3 | S2/S3 | TOC | HI | OI | PP | PI | Tmax | Sample |
|---------|-----|--------------------------------------|------|------|------|-------|------|----|-----|-----|------|------|---------|
| 1820.00 | cut | Sh/Clst: ol gy to lt ol gy | 0.01 | 0.11 | 0.58 | 0.19 | 0.32 | 34 | 181 | 0.1 | 0.08 | 418 | 0097-1L |
| 1900.00 | cut | Sh/Clst: ol gy to lt ol gy, lt ol gn | 0.01 | 0.08 | 0.42 | 0.19 | 0.28 | 29 | 150 | 0.1 | 0.11 | 409 | 0099-1L |
| 2020.00 | cut | Sh/Clst: ol gy to lt ol gy, lt ol gn | 0.02 | 0.15 | 0.71 | 0.21 | 0.36 | 42 | 197 | 0.2 | 0.12 | 414 | 0102-1L |
| 2155.00 | ccp | Sh/Clst: m gy to drk gy | 0.06 | 0.25 | 0.18 | 1.39 | 0.49 | 51 | 37 | 0.3 | 0.19 | 423 | 0060-1L |
| 2170.00 | ccp | Sh/Clst: m gy to drk gy | 0.02 | 0.17 | 0.12 | 1.42 | 0.50 | 34 | 24 | 0.2 | 0.11 | 420 | 0061-1L |
| 2205.00 | ccp | Sh/Clst: drk gy | 0.01 | 0.12 | 0.58 | 0.21 | 0.34 | 35 | 171 | 0.1 | 0.08 | 420 | 0063-1L |
| 2565.00 | swc | Sh/Clst: ol blk | 0.04 | 0.12 | 0.23 | 0.52 | 0.37 | 32 | 62 | 0.2 | 0.25 | 394 | 0301-1L |
| 2711.00 | ccp | Sh/Clst: ol gy | 0.81 | 0.50 | 2.26 | 0.22 | 0.61 | 82 | 370 | 1.3 | 0.62 | 420 | 0161-1L |
| 2712.00 | ccp | Sh/Clst: ol gy | 0.54 | 0.48 | 1.31 | 0.37 | 0.65 | 74 | 202 | 1.0 | 0.53 | 421 | 0162-1L |
| 2714.00 | ccp | Sh/Clst: m drk gy | 0.06 | 0.27 | 0.87 | 0.31 | 1.13 | 24 | 77 | 0.3 | 0.18 | 432 | 0164-2L |
| 2716.00 | ccp | Sh/Clst: m drk gy | 0.19 | 0.63 | 0.65 | 0.97 | 1.40 | 45 | 46 | 0.8 | 0.23 | 434 | 0166-1L |
| 2719.00 | ccp | Sh/Clst: gy brn | 0.05 | 0.04 | 0.82 | 0.05 | 0.57 | 7 | 144 | 0.1 | 0.56 | 415 | 0169-1L |
| 2721.80 | ccp | Sh/Clst: drk brn | 0.05 | 0.07 | 0.65 | 0.11 | 0.24 | 29 | 271 | 0.1 | 0.42 | 365 | 0172-1L |
| 2725.00 | ccp | Sh/Clst: drk gy | 0.45 | 1.13 | 0.96 | 1.18 | 2.24 | 50 | 43 | 1.6 | 0.28 | 430 | 0175-1L |

Table 3 : Rock-Eval table for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | S1 | S2 | S3 | S2/S3 | TOC | HI | OI | PP | PI | Tmax | Sample |
|---------|-----|---|-------|------|------|-------|------|-----|-----|------|------|------|---------|
| 2728.00 | ccp | Sh/Clst: gy red to drk brn, m brn | 0.13 | 0.07 | 0.55 | 0.13 | 0.14 | 50 | 393 | 0.2 | 0.65 | 421 | 0178-1L |
| 2731.00 | ccp | Sh/Clst: w to lt ol gy | 0.04 | 0.04 | 0.25 | 0.16 | 0.11 | 36 | 227 | 0.1 | 0.50 | 357 | 0181-1L |
| 2733.00 | ccp | Congl : lt ol gy to lt bl gy, w to lt gy | 0.01 | 0.01 | 0.36 | 0.03 | 0.27 | 4 | 133 | - | 0.50 | 370 | 0185-1L |
| 2734.00 | ccp | Sh/Clst: w to lt gy | 0.01 | 0.01 | 0.20 | 0.05 | 0.17 | 6 | 118 | - | 0.50 | 299 | 0186-1L |
| 2735.00 | com | bulk | 0.10 | 0.20 | 0.23 | 0.87 | 0.41 | 49 | 56 | 0.3 | 0.33 | 425 | 0313-0B |
| 2736.00 | ccp | S/Sst : m y brn to drk y brn | 17.47 | 6.55 | 0.12 | 54.58 | 2.20 | 298 | 5 | 24.0 | 0.73 | 410 | 0188-1L |
| 2737.00 | ccp | S/Sst : m y brn to drk y brn | 13.26 | 5.79 | 0.15 | 38.60 | 1.81 | 320 | 8 | 19.1 | 0.70 | 417 | 0189-1L |
| 2738.00 | ccp | S/Sst : w to m y brn to drk y brn | 23.52 | 8.95 | 0.11 | 81.36 | 2.96 | 302 | 4 | 32.5 | 0.72 | 395 | 0190-1L |
| 2739.00 | com | bulk | 2.89 | 1.18 | 0.13 | 9.08 | 0.42 | 281 | 31 | 4.1 | 0.71 | 383 | 0314-0B |
| 2740.00 | ccp | S/Sst : w to lt gy to pl y brn | 0.19 | 0.16 | 0.10 | 1.60 | 0.09 | 178 | 111 | 0.3 | 0.54 | 425 | 0193-1L |
| 2741.00 | ccp | S/Sst : w to lt gy to pl y brn | 0.12 | 0.13 | 0.05 | 2.60 | 0.08 | 163 | 63 | 0.3 | 0.48 | 399 | 0192-1L |
| 2743.00 | ccp | S/Sst : w to lt gy | 0.09 | 0.15 | 0.03 | 5.00 | 0.10 | 150 | 30 | 0.2 | 0.38 | 428 | 0194-1L |
| 2776.00 | ccp | S/Sst : w to lt gy, pl y brn | 9.87 | 1.42 | 0.07 | 20.29 | 1.07 | 133 | 7 | 11.3 | 0.87 | 411 | 0230-1L |
| 2823.00 | ccp | S/Sst : w, lt brn gy, drk y brn | 8.65 | 2.10 | 0.14 | 15.00 | 1.11 | 189 | 13 | 10.8 | 0.80 | 421 | 0280-1L |

Table 3 : Rock-Eval table for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | S1 | S2 | S3 | S2/S3 | TOC | HI | OI | PP | PI | Tmax | Sample |
|---------|-----|--|------|-------|------|-------|------|-----|-----|------|------|------|---------|
| 2825.00 | ccp | S/Sst : w, lt brn gy, drk y brn | 0.25 | 0.04 | 0.07 | 0.57 | 0.08 | 50 | 88 | 0.3 | 0.86 | 426 | 0282-1L |
| 2838.00 | ccp | Sltst : drk gy | 0.17 | 0.69 | 0.29 | 2.38 | 0.68 | 101 | 43 | 0.9 | 0.20 | 425 | 0298-2L |
| 2843.00 | cut | Sh/Clst: ol blk, lt gy to m lt gy, drk gy, pl y brn | 1.39 | 18.76 | 0.53 | 35.40 | 5.68 | 330 | 9 | 20.1 | 0.07 | 421 | 0143-1L |
| 2865.00 | swc | Sh/Clst: gy blk to dsk y brn | 0.63 | 11.70 | 0.45 | 26.00 | 7.63 | 153 | 6 | 12.3 | 0.05 | 429 | 0307-1L |
| 2943.00 | swc | Sltst : gy blk | 0.43 | 1.64 | 0.49 | 3.35 | 2.43 | 67 | 20 | 2.1 | 0.21 | 436 | 0309-1L |
| 2958.00 | swc | Sltst : w to lt brn gy | 0.11 | 0.13 | 1.45 | 0.09 | 0.20 | 65 | 725 | 0.2 | 0.46 | 434 | 0310-1L |
| 2971.00 | swc | Sltst : w to lt gy, drk gy | 0.82 | 0.40 | 0.94 | 0.43 | 0.45 | 89 | 209 | 1.2 | 0.67 | 415 | 0312-1L |
| 2988.00 | swc | Sltst : drk gy | 0.52 | 2.25 | 2.77 | 0.81 | 1.79 | 126 | 155 | 2.8 | 0.19 | 437 | 0308-1L |
| 3005.00 | cut | S/Sst : w to lt gy | 0.07 | 0.20 | 0.08 | 2.50 | 0.14 | 143 | 57 | 0.3 | 0.26 | 395 | 0160-2L |

Table 4 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | C1 | C2-C5 | C6-C14 | C15+ | S2 from Rock-Eval | Sample |
|---------|-----|---|-------|-------|--------|-------|----------------------|---------|
| 421.50 | swc | Sh/Clst: lt gy to lt brn gy | 10.74 | 34.82 | 48.82 | 5.62 | 0.18 | 0001-1L |
| 623.50 | swc | Sltst : lt gy to lt brn gy | 8.72 | 36.10 | 50.39 | 4.80 | 0.17 | 0015-1L |
| 820.00 | swc | Sh/Clst: lt gy to m gy to dsk brn | 10.33 | 35.60 | 50.20 | 3.87 | 0.17 | 0028-1L |
| 1024.50 | swc | Sh/Clst: brn gy | 8.86 | 43.64 | 45.06 | 2.44 | 0.09 | 0041-1L |
| 1190.00 | swc | Sh/Clst: lt brn gy | 5.53 | 29.34 | 57.97 | 7.17 | 1.01 | 0058-1L |
| 1420.00 | cut | Sh/Clst: ol gy | 9.55 | 40.20 | 46.22 | 4.03 | 0.20 | 0087-1L |
| 1620.00 | cut | Sh/Clst: lt ol gy to ol gy | 6.43 | 43.07 | 45.16 | 5.35 | 0.10 | 0092-1L |
| 1820.00 | cut | Sh/Clst: ol gy to lt ol gy | 6.91 | 42.27 | 47.89 | 2.93 | 0.11 | 0097-1L |
| 2020.00 | cut | Sh/Clst: ol gy to lt ol gy, lt ol gn | 9.05 | 41.10 | 45.77 | 4.08 | 0.15 | 0102-1L |
| 2155.00 | ccp | Sh/Clst: m gy to drk gy | 10.99 | 35.59 | 48.72 | 4.71 | 0.25 | 0060-1L |
| 2838.00 | ccp | Sltst : drk gy | 6.20 | 27.14 | 54.05 | 12.60 | 0.69 | 0298-2L |
| 2924.00 | cut | Sh/Clst: drk gy to dsk y brn | 4.93 | 19.62 | 46.19 | 29.26 | - | 0152-1L |
| 2988.00 | swc | Sltst : drk gy | 15.84 | 28.35 | 41.53 | 14.28 | 2.25 | 0308-1L |

Table 5: GHM Analyses from Well NOCS 33/9-15

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| Sample depth | Sample type | Litholog | S1 | S2 | PP | PI | Tmax |
|--------------|-------------|----------|------|-------|-------|------|------|
| 2230 | CUT | sh/clst | 0.18 | 1.45 | 1.63 | 0.11 | 331 |
| 2240 | CUT | sh/clst | 0.02 | 0.33 | 0.35 | 0.07 | 435 |
| 2250 | CUT | sh/clst | 0.01 | 0.24 | 0.24 | 0.03 | 417 |
| 2260 | CUT | sh/clst | 0.01 | 0.32 | 0.33 | 0.02 | 330 |
| 2270 | CUT | sh/clst | 1.60 | 0.72 | 2.32 | 0.69 | 404 |
| 2280 | CUT | sh/clst | 0.30 | 0.39 | 0.68 | 0.43 | 421 |
| 2290 | CUT | sh/clst | 1.64 | 0.56 | 2.19 | 0.75 | 408 |
| 2300 | CUT | sh/clst | 1.11 | 0.29 | 1.40 | 0.79 | 344 |
| 2310 | CUT | sh/clst | 1.16 | 0.42 | 1.58 | 0.73 | 336 |
| 2330 | CUT | clst | 1.33 | 0.67 | 2.00 | 0.66 | 407 |
| 2340 | CUT | clst | 0.61 | 0.45 | 1.05 | 0.58 | 437 |
| 2350 | CUT | clst | 1.22 | 0.43 | 1.66 | 0.74 | 415 |
| 2360 | CUT | clst | 0.65 | 0.25 | 0.90 | 0.72 | 441 |
| 2370 | CUT | clst | 0.14 | 0.23 | 0.37 | 0.38 | 317 |
| 2380 | CUT | clst | 0.51 | 0.36 | 0.87 | 0.58 | 435 |
| 2390 | CUT | clst | 0.64 | 0.47 | 1.11 | 0.57 | 433 |
| 2400 | CUT | clst | 0.61 | 0.65 | 1.26 | 0.48 | 439 |
| 2410 | CUT | clst | 1.67 | 0.72 | 2.39 | 0.70 | 422 |
| 2430 | CUT | clst | 1.91 | 0.50 | 2.41 | 0.79 | 421 |
| 2450 | CUT | clst | 1.39 | 0.93 | 2.32 | 0.60 | 435 |
| 2460 | CUT | clst | 0.67 | 0.16 | 0.83 | 0.81 | 76 |
| 2470 | CUT | clst | 0.20 | 0.45 | 0.65 | 0.31 | 414 |
| 2480 | CUT | clst | 0.71 | 0.37 | 1.09 | 0.66 | 420 |
| 2490 | CUT | clst | 0.40 | 0.17 | 0.57 | 0.70 | 426 |
| 2500 | CUT | clst | 1.10 | 0.69 | 1.79 | 0.62 | 438 |
| 2510 | CUT | clst | 0.40 | 0.26 | 0.66 | 0.60 | 451 |
| 2530 | CUT | clst | 0.76 | 0.92 | 1.68 | 0.45 | 437 |
| 2540 | CUT | clst | 1.36 | 0.85 | 2.20 | 0.61 | 434 |
| 2560 | CUT | clst | 0.56 | 0.81 | 1.37 | 0.41 | 430 |
| 2570 | CUT | clst | 0.53 | 0.60 | 1.13 | 0.47 | 443 |
| 2580 | CUT | clst | 1.36 | 0.87 | 2.23 | 0.61 | 436 |
| 2590 | CUT | clst | 0.60 | 0.74 | 1.35 | 0.45 | 423 |
| 2600 | CUT | clst | 0.74 | 0.52 | 1.27 | 0.59 | 421 |
| 2606 | CUT | clst | 0.75 | 0.64 | 1.39 | 0.54 | 430 |
| 2615 | CUT | clst | 0.82 | 0.48 | 1.30 | 0.63 | 418 |
| 2624 | CUT | clst | 1.04 | 0.53 | 1.58 | 0.66 | 415 |
| 2633 | CUT | clst | 0.46 | 0.25 | 0.71 | 0.65 | 419 |
| 2642 | CUT | clst | 1.04 | 0.53 | 1.57 | 0.66 | 417 |
| 2657 | CUT | clst | 0.60 | 0.31 | 0.91 | 0.66 | 412 |
| 2663 | CUT | sh/clst | 0.28 | 0.33 | 0.61 | 0.46 | 409 |
| 2678 | CUT | clst | 0.09 | 0.20 | 0.29 | 0.31 | 329 |
| 2690 | CUT | sh/clst | 0.22 | 0.29 | 0.51 | 0.43 | 416 |
| 2700 | CUT | sh/clst | 0.20 | 0.13 | 0.34 | 0.60 | 415 |
| 2705 | CUT | sh/clst | 0.49 | 0.34 | 0.83 | 0.59 | 413 |
| 2711 | CUT | sh/clst | 2.34 | 10.76 | 13.10 | 0.18 | 430 |
| 2711 | CUT | sh/clst | 1.63 | 10.88 | 12.51 | 0.13 | 423 |
| 2711 | CUT | sh/clst | 2.00 | 14.28 | 16.28 | 0.12 | 428 |
| 2712 | CUT | sh | 0.70 | 1.69 | 2.39 | 0.29 | 430 |
| 2714 | CUT | sh | 1.51 | 2.80 | 4.31 | 0.35 | 432 |
| 2717 | CUT | sh | 0.81 | 1.13 | 1.94 | 0.42 | 442 |

Table 5: GHM Analyses from Well NOCS 33/9-15

Page: 2

| Sample depth | Sample type | Litholog | S1 | S2 | PP | PI | Tmax |
|-----------------|----------------|----------|-------|------|-------|------|------|
| 2720 | CUT | sh | 0.75 | 1.23 | 1.98 | 0.38 | 436 |
| 2721 | CUT | sh | 0.45 | 0.82 | 1.27 | 0.35 | 439 |
| 2711 | CORE | sh | 0.67 | 0.15 | 0.82 | 0.81 | 417 |
| 2712.3 | CORE | sh | 0.15 | 0.04 | 0.19 | 0.78 | 405 |
| 2712.3 | CORE | sh | 0.24 | 0.48 | 0.72 | 0.34 | 436 |
| 2712 | CORE | clst | 0.17 | 0.17 | 0.35 | 0.50 | 427 |
| 2714 | CORE | clst | 0.12 | 0.23 | 0.35 | 0.34 | 436 |
| 2715 | CORE | clst | 2.31 | 1.99 | 4.31 | 0.54 | 414 |
| 2716 | CORE | clst | 0.10 | 0.13 | 0.23 | 0.44 | 438 |
| 2717 | CORE | clst | 0.42 | 1.62 | 2.04 | 0.21 | 435 |
| 2719 | CORE | clst | 0.07 | 0.03 | 0.10 | 0.69 | 438 |
| 2720 | CORE | clst | 0.34 | 0.87 | 1.22 | 0.28 | 434 |
| 2721.8 | CORE | clst | 0.04 | 0.14 | 0.18 | 0.24 | 335 |
| 2725 | CORE | clst | 0.25 | 0.55 | 0.79 | 0.31 | 435 |
| 2728 | CUT | clst | 0.37 | 0.71 | 1.08 | 0.34 | 439 |
| 2731.8 | CORE | lst | 0.01 | 0.04 | 0.05 | 0.24 | 320 |
| 2731.8 | CORE | lst | 0.08 | 0.03 | 0.11 | 0.74 | 413 |
| 2732 | CUT | lst | 0.34 | 0.17 | 0.51 | 0.67 | 405 |
| 2732 | CORE | lst | 0.04 | 0.02 | 0.06 | 0.66 | 428 |
| 2733 | CUT | lst | 0.74 | 0.27 | 1.01 | 0.74 | 404 |
| 2734 | CORE | lst | 0.06 | 0.02 | 0.09 | 0.71 | 401 |
| 2735 | CORE | lst/sh | 0.44 | 0.47 | 0.91 | 0.49 | 406 |
| 2735 | CUT | lst/sh | 0.67 | 0.35 | 1.02 | 0.66 | 416 |
| 2736 | CORE | sst | 16.45 | 2.39 | 18.84 | 0.87 | 418 |
| 2736 | CORE | sst | 18.19 | 5.98 | 24.17 | 0.75 | 415 |
| 2737 | CORE | sst | 31.11 | 7.37 | 38.48 | 0.81 | 384 |
| 2738 | CORE | sst | 28.75 | 6.55 | 35.30 | 0.81 | 387 |
| 2738 | CUT | lst | 0.56 | 0.22 | 0.78 | 0.72 | 412 |
| 2739 | CORE | sst | 11.06 | 1.73 | 12.79 | 0.86 | 364 |
| 2739.5 | CUT | sst | 2.15 | 0.58 | 2.73 | 0.79 | 411 |
| 2740 | CUT | sst | 2.48 | 0.68 | 3.16 | 0.78 | 405 |
| 2740 | CORE | sst | 0.43 | 0.32 | 0.74 | 0.57 | 371 |
| 2741 | CORE | sst | 0.75 | 1.00 | 1.75 | 0.43 | 371 |
| 2741 | CUT | sst | 1.95 | 0.55 | 2.50 | 0.78 | 403 |
| 2743 | CUT | sst | 1.91 | 0.69 | 2.60 | 0.73 | 412 |
| 2743 | CORE | sst | 0.12 | 0.21 | 0.33 | 0.36 | 424 |
| 2744 | CUT | lst | 3.05 | 0.75 | 3.80 | 0.80 | 385 |
| 2746 | CUT | sst | 0.07 | 0.17 | 0.24 | 0.30 | 405 |
| 2747 | CUT | sst | 1.27 | 0.31 | 1.57 | 0.81 | 405 |
| 2749 | CORE | sst | 0.10 | 0.12 | 0.22 | 0.47 | 405 |
| 2750 | CUT | sst | 0.12 | 0.06 | 0.17 | 0.67 | 412 |
| 2753 | CUT | sst | 0.15 | 0.03 | 0.18 | 0.82 | 418 |
| 2755 | CORE | sst | 0.04 | 0.13 | 0.18 | 0.25 | 429 |
| 2756 | CUT | sd | 0.17 | 0.04 | 0.21 | 0.81 | 423 |
| 2759 | CUT | lst | 0.37 | 0.12 | 0.49 | 0.75 | 409 |
| 2760 | CORE | sst | 0.05 | 0.06 | 0.11 | 0.48 | 412 |
| 2765 | CORE | sst | 0.19 | 1.13 | 1.32 | 0.15 | 425 |
| 2769 | CORE | sst | 0.25 | 1.80 | 2.05 | 0.12 | 422 |
| 2775 | CORE | sh/sst | 0.58 | 5.49 | 6.07 | 0.10 | 418 |
| 2776 | CORE | sst | 15.75 | 1.65 | 17.40 | 0.91 | 385 |

Table 5: GHM Analyses from Well NOCS 33/9-15

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| Sample depth | Sample type | Litholog | S1 | S2 | PP | PI | Tmax |
|-----------------|----------------|----------|------|-------|-------|------|------|
| 2777 | CORE | sst | 0.12 | 0.07 | 0.19 | 0.63 | 406 |
| 2777 | CORE | lst | 0.21 | 0.06 | 0.27 | 0.78 | 409 |
| 2780 | CORE | sst | 0.64 | 3.29 | 3.92 | 0.16 | 422 |
| 2783 | CORE | sst | 0.03 | 0.00 | 0.03 | 0.96 | 453 |
| 2785 | CORE | sh/sst | 0.53 | 3.09 | 3.62 | 0.15 | 418 |
| 2787 | CORE | sst | 0.14 | 0.07 | 0.21 | 0.65 | 402 |
| 2788 | CORE | sst | 0.99 | 5.00 | 5.99 | 0.17 | 417 |
| 2789 | CORE | sst | 0.15 | 0.09 | 0.24 | 0.63 | 412 |
| 2793 | CORE | sst | 0.17 | 0.07 | 0.24 | 0.73 | 404 |
| 2800 | CORE | sst | 0.11 | 0.04 | 0.15 | 0.72 | 330 |
| 2802 | CORE | sst | 0.09 | 0.10 | 0.19 | 0.47 | 376 |
| 2804 | CORE | sst | 0.08 | 0.03 | 0.11 | 0.72 | 319 |
| 2806.7 | CORE | sh/clst | 0.99 | 8.94 | 9.93 | 0.10 | 413 |
| 2810 | CUT | clst | 1.75 | 5.37 | 7.11 | 0.25 | 418 |
| 2811 | CORE | sst | 0.41 | 0.13 | 0.54 | 0.75 | 372 |
| 2816 | CUT | sst | 0.35 | 0.06 | 0.42 | 0.84 | 412 |
| 2816 | CORE | sst | 0.06 | 0.02 | 0.08 | 0.72 | 414 |
| 2819 | CORE | sst | 0.08 | 0.02 | 0.10 | 0.75 | 331 |
| 2820 | CORE | sst/sh | 0.66 | 1.98 | 2.64 | 0.25 | 419 |
| 2823 | CORE | sst | 8.61 | 0.67 | 9.28 | 0.93 | 365 |
| 2824 | CORE | sst | 0.31 | 0.04 | 0.35 | 0.89 | 326 |
| 2825 | CORE | sst | 0.08 | 0.05 | 0.12 | 0.63 | 412 |
| 2826 | CORE | sst | 0.42 | 0.03 | 0.46 | 0.92 | 324 |
| 2828 | CORE | sst | 0.10 | 0.21 | 0.31 | 0.33 | 433 |
| 2830.2 | CORE | sst | 0.10 | 0.18 | 0.28 | 0.34 | 420 |
| 2832 | CORE | sst | 0.07 | 0.03 | 0.10 | 0.72 | 420 |
| 2834 | CORE | sh | 0.96 | 10.16 | 11.13 | 0.09 | 416 |
| 2838 | CORE | sh/sst | 0.66 | 5.18 | 5.85 | 0.11 | 418 |
| 2840 | CUT | sh/sst | 2.08 | 1.66 | 3.73 | 0.56 | 435 |
| 2849 | CUT | sh | 2.04 | 21.29 | 23.33 | 0.09 | 416 |
| 2855 | CUT | sh | 1.63 | 21.70 | 23.33 | 0.07 | 415 |
| 2867 | CUT | sh | 1.33 | 6.45 | 7.78 | 0.17 | 430 |
| 2873 | CUT | sh | 1.01 | 3.94 | 4.95 | 0.20 | 432 |
| 2882 | CUT | sh | 1.69 | 6.58 | 8.27 | 0.20 | 432 |
| 2891 | CUT | sh | 0.54 | 0.87 | 1.41 | 0.38 | 435 |
| 2900 | CUT | sh | 1.09 | 5.75 | 6.83 | 0.16 | 433 |
| 2915 | CUT | sh | 0.89 | 4.62 | 5.51 | 0.16 | 433 |
| 2924 | CUT | sh | 1.05 | 3.06 | 4.11 | 0.26 | 429 |
| 2933 | CUT | sh | 0.66 | 2.49 | 3.15 | 0.21 | 433 |
| 2942 | CUT | sh | 1.04 | 1.94 | 2.98 | 0.35 | 435 |
| 2951 | CUT | sst | 0.53 | 0.19 | 0.71 | 0.74 | 435 |
| 2960 | CUT | sst | 1.26 | 0.19 | 1.46 | 0.87 | 418 |
| 2975 | CUT | clst/sst | 0.56 | 0.61 | 1.17 | 0.48 | 436 |
| 2981 | CUT | clst | 0.77 | 2.12 | 2.89 | 0.27 | 438 |
| 2984 | CUT | clst | 0.64 | 2.20 | 2.85 | 0.23 | 439 |
| 2987 | CUT | clst | 0.56 | 1.67 | 2.24 | 0.25 | 439 |
| 2996 | CUT | clst | 1.38 | 10.45 | 11.82 | 0.12 | 437 |
| 2999 | CUT | clst/sst | 0.82 | 0.94 | 1.76 | 0.46 | 438 |
| 3005 | CUT | clst/sst | 0.63 | 0.66 | 1.29 | 0.49 | 437 |
| 3007 | CUT | clst/sst | 0.47 | 0.33 | 0.81 | 0.59 | 424 |

Table 6 a: Weight of EOM and Chromatographic Fraction for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | Rock Extracted (g) | EOM (mg) | Sat (mg) | Aro (mg) | Asph (mg) | NSO (mg) | HC (mg) | Non-HC (mg) | TOC(e) (%) | Sample |
|---------|-----|-----------------------------------|--------------------------|-------------|-------------|-------------|--------------|-------------|------------|----------------|---------------|---------|
| 2715.00 | ccp | Sh/Clst: m drk gy | 2.7 | 2.7 | 0.9 | 0.5 | 0.5 | 0.8 | 1.4 | 1.3 | 1.57 | 0165-1L |
| 2736.00 | ccp | S/Sst : m y brn to drk y brn | 9.9 | 189.0 | 80.3 | 63.4 | 11.7 | 33.6 | 143.7 | 45.3 | 1.98 | 0188-1L |
| 2738.00 | ccp | S/Sst : w to m y brn to drk y brn | 7.7 | 161.0 | 70.0 | 52.1 | 9.6 | 29.3 | 122.1 | 38.9 | 2.11 | 0190-1L |
| 2740.00 | ccp | S/Sst : w to lt gy to pl y brn | 9.5 | 4.0 | 1.2 | 0.8 | 0.8 | 1.2 | 2.0 | 2.0 | 0.17 | 0193-1L |
| 2743.50 | oil | bulk | - | 47.2 | 18.6 | 12.8 | 3.2 | 12.6 | 31.4 | 15.8 | - | 0315-0B |
| 2776.00 | ccp | S/Sst : w to lt gy, pl y brn | 6.4 | 58.4 | 35.2 | 12.9 | 3.4 | 6.9 | 48.1 | 10.3 | 0.95 | 0230-1L |
| 2783.50 | oil | bulk | - | 53.5 | 23.7 | 10.1 | 2.3 | 17.4 | 33.8 | 19.7 | - | 0316-0B |
| 2823.00 | ccp | S/Sst : w, lt brn gy, drk y brn | 9.8 | 82.7 | 47.9 | 19.8 | 4.5 | 10.5 | 67.7 | 15.0 | 1.07 | 0280-1L |
| 2829.80 | oil | bulk | - | 70.7 | 42.8 | 15.0 | 3.6 | 9.3 | 57.8 | 12.9 | - | 0317-0B |
| 2838.00 | ccp | Sltst : drk gy | 7.6 | 5.8 | 1.5 | 1.8 | 1.0 | 1.5 | 3.3 | 2.5 | 0.89 | 0298-2L |
| 2879.00 | cut | Sh/Clst: drk gy, pl y brn | 9.5 | 17.7 | 2.1 | 4.6 | 6.2 | 4.8 | 6.7 | 11.0 | 5.80 | 0147-1L |
| 2924.00 | cut | Sh/Clst: drk gy to dsk y brn | 8.3 | 16.5 | 4.6 | 4.6 | 2.8 | 4.5 | 9.2 | 7.3 | 3.51 | 0152-1L |
| 2988.00 | swc | Sltst : drk gy | 4.8 | 10.0 | 3.9 | 1.8 | 2.3 | 2.0 | 5.7 | 4.3 | 1.84 | 0308-1L |
| 3005.00 | cut | S/Sst : w to lt gy | 2.0 | 3.7 | 1.2 | 0.6 | 1.0 | 0.9 | 1.8 | 1.9 | 1.01 | 0160-2L |

Table 6 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ Lithology | EOM | Sat | Aro | Asph | NSO | HC | Non-HC | Sample |
|---------|---------------------------------------|-------|------|------|------|------|-------|--------|---------|
| 2715.00 | ccp Sh/Clst: m drk gy | 1011 | 337 | 187 | 187 | 299 | 524 | 486 | 0165-1L |
| 2736.00 | ccp S/Sst : m y brn to drk y brn | 19090 | 8111 | 6404 | 1181 | 3393 | 14515 | 4575 | 0188-1L |
| 2738.00 | ccp S/Sst : w to m y brn to drk y brn | 20827 | 9055 | 6739 | 1241 | 3790 | 15795 | 5032 | 0190-1L |
| 2740.00 | ccp S/Sst : w to lt gy to pl y brn | 422 | 126 | 84 | 84 | 126 | 211 | 211 | 0193-1L |
| 2743.50 | oil bulk | - | - | - | - | - | - | - | 0315-0B |
| 2776.00 | ccp S/Sst : w to lt gy, pl y brn | 9182 | 5534 | 2028 | 534 | 1084 | 7562 | 1619 | 0230-1L |
| 2783.50 | oil bulk | - | - | - | - | - | - | - | 0316-0B |
| 2823.00 | ccp S/Sst : w, lt brn gy, drk y brn | 8473 | 4907 | 2028 | 461 | 1075 | 6936 | 1536 | 0280-1L |
| 2829.80 | oil bulk | - | - | - | - | - | - | - | 0317-0B |
| 2838.00 | ccp Sltst : drk gy | 767 | 198 | 238 | 132 | 198 | 436 | 330 | 0298-2L |
| 2879.00 | cut Sh/Clst: drk gy, pl y brn | 1867 | 221 | 485 | 654 | 506 | 706 | 1160 | 0147-1L |
| 2924.00 | cut Sh/Clst: drk gy to dsk y brn | 1990 | 554 | 554 | 337 | 542 | 1109 | 880 | 0152-1L |
| 2988.00 | swc Sltst : drk gy | 2100 | 819 | 378 | 483 | 420 | 1197 | 903 | 0308-1L |
| 3005.00 | cut S/Sst : w to lt gy | 1831 | 594 | 297 | 495 | 445 | 891 | 940 | 0160-2L |

Table 6 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | EOM | Sat | Aro | Asph | NSO | HC | Non-HC | Sample |
|---------|-----|-----------------------------------|--------|--------|--------|-------|--------|--------|--------|---------|
| 2715.00 | ccp | Sh/Clst: m drk gy | 64.41 | 21.47 | 11.93 | 11.93 | 19.08 | 33.40 | 31.01 | 0165-1L |
| 2736.00 | ccp | S/Sst : m y brn to drk y brn | 964.19 | 409.65 | 323.44 | 59.69 | 171.41 | 733.09 | 231.10 | 0188-1L |
| 2738.00 | ccp | S/Sst : w to m y brn to drk y brn | 987.11 | 429.18 | 319.43 | 58.86 | 179.64 | 748.61 | 238.50 | 0190-1L |
| 2740.00 | ccp | S/Sst : w to lt gy to pl y brn | 248.73 | 74.62 | 49.75 | 49.75 | 74.62 | 124.36 | 124.36 | 0193-1L |
| 2743.50 | oil | bulk | - | - | - | - | - | - | - | 0315-0B |
| 2776.00 | ccp | S/Sst : w to lt gy, pl y brn | 966.57 | 582.59 | 213.51 | 56.27 | 114.20 | 796.09 | 170.47 | 0230-1L |
| 2783.50 | oil | bulk | - | - | - | - | - | - | - | 0316-0B |
| 2823.00 | ccp | S/Sst : w, lt brn gy, drk y brn | 791.90 | 458.67 | 189.60 | 43.09 | 100.54 | 648.27 | 143.63 | 0280-1L |
| 2829.80 | oil | bulk | - | - | - | - | - | - | - | 0317-0B |
| 2838.00 | ccp | Sltst : drk gy | 86.20 | 22.29 | 26.75 | 14.86 | 22.29 | 49.05 | 37.16 | 0298-2L |
| 2879.00 | cut | Sh/Clst: drk gy, pl y brn | 32.19 | 3.82 | 8.37 | 11.28 | 8.73 | 12.19 | 20.01 | 0147-1L |
| 2924.00 | cut | Sh/Clst: drk gy to dsk y brn | 56.71 | 15.81 | 15.81 | 9.62 | 15.47 | 31.62 | 25.09 | 0152-1L |
| 2988.00 | swc | Sltst : drk gy | 114.18 | 44.53 | 20.55 | 26.26 | 22.84 | 65.08 | 49.10 | 0308-1L |
| 3005.00 | cut | S/Sst : w to lt gy | 181.35 | 58.82 | 29.41 | 49.01 | 44.11 | 88.23 | 93.13 | 0160-2L |

Table 6 d: Composition of material extracted from the rock (%) for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | Sat | Aro | Asph | NSO | HC | Non-HC | Sat | HC | Sample |
|---------|-----|-----------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|---------|
| | | | EOM | EOM | EOM | EOM | EOM | EOM | EOM | Aro | |
| 2715.00 | ccp | Sh/Clst: m drk gy | 33.33 | 18.52 | 18.52 | 29.63 | 51.85 | 48.15 | 180.00 | 107.69 | 0165-1L |
| 2736.00 | ccp | S/Sst : m y brn to drk y brn | 42.49 | 33.54 | 6.19 | 17.78 | 76.03 | 23.97 | 126.66 | 317.22 | 0188-1L |
| 2738.00 | ccp | S/Sst : w to m y brn to drk y brn | 43.48 | 32.36 | 5.96 | 18.20 | 75.84 | 24.16 | 134.36 | 313.88 | 0190-1L |
| 2740.00 | ccp | S/Sst : w to lt gy to pl y brn | 30.00 | 20.00 | 20.00 | 30.00 | 50.00 | 50.00 | 150.00 | 100.00 | 0193-1L |
| 2743.50 | oil | bulk | 39.41 | 27.12 | 6.78 | 26.69 | 66.53 | 33.47 | 145.31 | 198.73 | 0315-0B |
| 2776.00 | ccp | S/Sst : w to lt gy, pl y brn | 60.27 | 22.09 | 5.82 | 11.82 | 82.36 | 17.64 | 272.87 | 466.99 | 0230-1L |
| 2783.50 | oil | bulk | 44.30 | 18.88 | 4.30 | 32.52 | 63.18 | 36.82 | 234.65 | 171.57 | 0316-0B |
| 2823.00 | ccp | S/Sst : w, lt brn gy, drk y brn | 57.92 | 23.94 | 5.44 | 12.70 | 81.86 | 18.14 | 241.92 | 451.33 | 0280-1L |
| 2829.80 | oil | bulk | 60.54 | 21.22 | 5.09 | 13.15 | 81.75 | 18.25 | 285.33 | 448.06 | 0317-0B |
| 2838.00 | ccp | Sltst : drk gy | 25.86 | 31.03 | 17.24 | 25.86 | 56.90 | 43.10 | 83.33 | 132.00 | 0298-2L |
| 2879.00 | cut | Sh/Clst: drk gy, pl y brn | 11.86 | 25.99 | 35.03 | 27.12 | 37.85 | 62.15 | 45.65 | 60.91 | 0147-1L |
| 2924.00 | cut | Sh/Clst: drk gy to dsk y brn | 27.88 | 27.88 | 16.97 | 27.27 | 55.76 | 44.24 | 100.00 | 126.03 | 0152-1L |
| 2988.00 | swc | Sltst : drk gy | 39.00 | 18.00 | 23.00 | 20.00 | 57.00 | 43.00 | 216.67 | 132.56 | 0308-1L |
| 3005.00 | cut | S/Sst : w to lt gy | 32.43 | 16.22 | 27.03 | 24.32 | 48.65 | 51.35 | 200.00 | 94.74 | 0160-2L |

Depth unit of measure: m

| Well | Descript. | Rock Extracted (g) | EOM (mg) | Sat (mg) | Aro (mg) | Asph (mg) | NSO (mg) | HC (mg) | Non-HC (mg) | TOC(e) (%) | Sample |
|----------|-----------|--------------------------|-------------|-------------|-------------|--------------|-------------|------------|----------------|---------------|---------|
| 33/9-14 | DST 2.2 | - | 67.9 | 41.6 | 18.9 | 3.0 | 4.4 | 60.5 | 7.4 | - | 0001-0B |
| 33/9-C32 | | - | 68.4 | 42.8 | 18.8 | 2.0 | 4.8 | 61.6 | 6.8 | - | 0002-0B |

Table 6 f: Composition of material extracted from the rock (%) for well OILS 33/9-14, 33/9-C32

Depth unit of measure: m

| Well | Descript. | Sat | Aro | Asph | NSO | HC | Non-HC | Sat | HC | Sample |
|----------|-----------|-------|-------|------|------|-------|--------|--------|--------|---------|
| | | EOM | EOM | EOM | EOM | EOM | EOM | Aro | Non-HC | |
| 33/9-14 | DST 2.2 | 61.27 | 27.84 | 4.42 | 6.48 | 89.10 | 10.90 | 220.11 | 817.57 | 0001-0B |
| 33/9-C32 | | 62.57 | 27.49 | 2.92 | 7.02 | 90.06 | 9.94 | 227.66 | 905.88 | 0002-0B |

Table 7 : Saturated Hydrocarbon Ratios for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | Pristane | Pristane | Pristane + Phytane | Phytane | CPI | Sample |
|---------|-----|-----------------------------------|----------|----------|--------------------|---------|------|---------|
| | | | nC17 | Phytane | nC17 + nC18 | nC18 | | |
| 2715.00 | ccp | Sh/Clst: m drk gy | 1.07 | 1.84 | 0.86 | 0.64 | 1.05 | 0165-1L |
| 2736.00 | ccp | S/Sst : m y brn to drk y brn | 1.12 | 1.32 | 1.03 | 0.94 | 1.04 | 0188-1L |
| 2738.00 | ccp | S/Sst : w to m y brn to drk y brn | 1.76 | 1.18 | 1.66 | 1.55 | 1.02 | 0190-1L |
| 2740.00 | ccp | S/Sst : w to lt gy to pl y brn | 1.14 | 1.39 | 0.96 | 0.79 | 1.04 | 0193-1L |
| 2743.50 | oil | bulk | 1.15 | 1.27 | 1.07 | 0.99 | 0.98 | 0315-0B |
| 2776.00 | ccp | S/Sst : w to lt gy, pl y brn | 0.78 | 1.40 | 0.68 | 0.57 | 0.99 | 0230-1L |
| 2783.50 | oil | bulk | 0.81 | 1.52 | 0.72 | 0.61 | 1.03 | 0316-0B |
| 2823.00 | ccp | S/Sst : w, lt brn gy, drk y brn | 0.83 | 1.37 | 0.73 | 0.62 | 0.98 | 0280-1L |
| 2829.80 | oil | bulk | 0.77 | 1.51 | 0.68 | 0.57 | 0.96 | 0317-0B |
| 2838.00 | ccp | Sltst : drk gy | 0.81 | 1.56 | 0.70 | 0.58 | 1.01 | 0298-2L |
| 2879.00 | cut | Sh/Clst: drk gy, pl y brn | 1.46 | 1.88 | 1.17 | 0.86 | 1.36 | 0147-1L |
| 2924.00 | cut | Sh/Clst: drk gy to dsk y brn | 1.13 | 1.66 | 0.98 | 0.80 | 1.18 | 0152-1L |
| 2988.00 | swc | Sltst : drk gy | 0.71 | 1.47 | 0.61 | 0.50 | 1.09 | 0308-1L |
| 3005.00 | cut | S/Sst : w to lt gy | 0.65 | 1.36 | 0.53 | 0.43 | 1.08 | 0160-2L |

Table 7 b: Saturated Hydrocarbon Ratios for well OILS 33/9-14, 33/9-C32

Depth unit of measure: m

| Well | Descript. | Pristane nC17 | Pristane Phytane | Pristane + Phytane nC17 + nC18 | Phytane nC18 | CPI | Sample |
|----------|-----------|------------------|---------------------|-----------------------------------|-----------------|------|---------|
| 33/9-14 | DST 2.2 | 0.58 | 1.48 | 0.52 | 0.44 | 1.00 | 0001-0B |
| 33/9-C32 | | 0.60 | 1.23 | 0.58 | 0.56 | 1.03 | 0002-0B |

Table 8 : Aromatic Hydrocarbon Ratios for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | MNR | DMNR | BPhR | 2/1MP | MPI1 | MPI2 | Rc | DBT/P | 4/1MDBT | (3+2) /1MDBT | Sample |
|---------|-----|-----------------------------------|------|------|------|-------|------|------|------|-------|---------|-----------------|---------|
| 2715.00 | ccp | Sh/Clst: m drk gy | - | 0.79 | - | 0.97 | 0.62 | 0.63 | 0.77 | - | - | - | 0165-1L |
| 2736.00 | ccp | S/Sst : m y brn to drk y brn | - | 0.68 | - | - | - | - | - | - | - | - | 0188-1L |
| 2738.00 | ccp | S/Sst : w to m y brn to drk y brn | 1.26 | - | - | - | - | - | - | - | - | - | 0190-1L |
| 2740.00 | ccp | S/Sst : w to lt gy to pl y brn | - | 0.81 | - | 1.01 | 0.81 | 0.93 | 0.89 | - | - | - | 0193-1L |
| 2743.50 | oil | bulk | - | - | - | - | - | - | - | - | - | - | 0315-0B |
| 2776.00 | ccp | S/Sst : w to lt gy, pl y brn | 1.19 | - | - | - | - | - | - | - | - | - | 0230-1L |
| 2783.50 | oil | bulk | 1.49 | 0.98 | - | - | - | - | - | - | - | - | 0316-0B |
| 2823.00 | ccp | S/Sst : w, lt brn gy, drk y brn | 1.50 | - | - | - | - | - | - | - | - | - | 0280-1L |
| 2829.80 | oil | bulk | 1.68 | - | - | - | - | - | - | - | - | - | 0317-0B |
| 2838.00 | ccp | Slstst : drk gy | 1.01 | 1.19 | - | - | 1.25 | 1.27 | 1.15 | - | - | - | 0298-2L |
| 2879.00 | cut | Sh/Clst: drk gy, pl y brn | 0.86 | 0.99 | 0.12 | 0.95 | 0.51 | 0.56 | 0.71 | - | - | - | 0147-1L |
| 2924.00 | cut | Sh/Clst: drk gy to dsk y brn | 1.01 | 1.24 | 0.22 | 1.07 | 0.61 | 0.68 | 0.77 | 0.29 | 1.57 | 0.45 | 0152-1L |
| 2988.00 | swc | Slstst : drk gy | 1.30 | 1.44 | 0.19 | 0.96 | 0.51 | 0.57 | 0.71 | 0.23 | - | - | 0308-1L |
| 3005.00 | cut | S/Sst : w to lt gy | - | 0.96 | - | 0.94 | 0.50 | 0.53 | 0.70 | - | - | - | 0160-2L |

Table 8b: Aromatic Hydrocarbon Ratios for well OILS 33/9-14, 33/9-C32

Depth unit of measure: m

| Well | Descript. | MNR | DMNR | BPhR | 2/1MP | MPI1 | MPI2 | Rc | DBT/P | 4/1MDBT | (3+2) /1MDBT | Sample |
|----------|-----------|------|------|------|-------|------|------|------|-------|---------|-----------------|---------|
| 33/9-14 | DST 2.2 | 1.24 | 1.53 | 0.25 | 1.21 | 0.77 | 0.90 | 0.86 | - | 5.35 | 1.16 | 0001-0B |
| 33/9-C32 | | 1.17 | 1.44 | 0.27 | 1.16 | 0.78 | 0.87 | 0.87 | 0.48 | 6.56 | 1.34 | 0002-0B |

Depth unit of measure: m

| Depth | Typ Lithology | Vitrinite Reflectance (%) | Number of Readings | Standard Deviation | Spore Fluorescence Colour | SCI | T _{max} (°C) | Sample |
|---------|--|---------------------------|--------------------|--------------------|---------------------------|-------------|-----------------------|---------|
| 421.50 | swc Sh/Clst: lt gy to lt brn gy | 0.31 | 6 | 0.03 | 3 | 2.0-3.0 | 407 | 0001-1L |
| 526.00 | swc Sh/Clst: lt brn gy to brn gy | 0.25 | 5 | 0.03 | 3-4 | - | 421 | 0008-1L |
| 623.50 | swc Sltst : lt gy to lt brn gy | 0.27 | 5 | 0.04 | 3 | 2.0 | 409 | 0015-1L |
| 730.00 | swc Sh/Clst: lt gy to lt brn gy to ol gy | 0.26 | 3 | 0.03 | 3 | - | 421 | 0022-1L |
| 820.00 | swc Sh/Clst: lt gy to m gy to dsk brn | 0.27 | 5 | 0.05 | 3 | 3.0 | 418 | 0028-1L |
| 923.50 | swc Sh/Clst: brn gy to drk brn | 0.29 | 8 | 0.05 | 3 | - | 419 | 0035-1L |
| 1024.50 | swc Sh/Clst: brn gy | 0.36 | 3 | 0.01 | 3-5 | 4.0(??) | 414 | 0041-1L |
| 1120.00 | swc Sh/Clst: lt brn gy | 0.27 | 6 | 0.02 | 3-4 | - | 417 | 0051-1L |
| 1190.00 | swc Sh/Clst: lt brn gy | 0.33 | 9 | 0.06 | 3+4 | 3.0(?) | 399 | 0058-1L |
| 1300.00 | cut Sh/Clst: lt ol gy | 0.47 | 2 | 0.05 | 3-4 | - | 419 | 0084-1L |
| 1420.00 | cut Sh/Clst: ol gy | 0.51 | 1 | 0.00 | 4+5 | 4.0 | 402 | 0087-1L |
| 1500.00 | cut Sh/Clst: ol gy to ol blk | 0.42 | 11 | 0.08 | 4-5 | - | 413 | 0089-1L |
| 1620.00 | cut Sh/Clst: lt ol gy to ol gy | 0.50 | 12 | 0.06 | 3+4 | 3.0-4.0(??) | 412 | 0092-1L |

Table 9 : Thermal Maturity Data for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ Lithology | Vitrinite Reflectance (%) | Number of Readings | Standard Deviation | Spore Fluorescence Colour | SCI | T _{max} (°C) | Sample |
|---------|--|---------------------------|--------------------|--------------------|---------------------------|------------|-----------------------|---------|
| 1740.00 | cut Sh/Clst: ol gy to lt ol gy | 0.51 | 6 | 0.07 | 4 | - | 421 | 0095-1L |
| 1820.00 | cut Sh/Clst: ol gy to lt ol gy | 0.43 | 5 | 0.04 | 4-5 | 3.5-4.0(?) | 418 | 0097-1L |
| 1900.00 | cut Sh/Clst: ol gy to lt ol gy, lt ol gn | 0.37 | 4 | 0.02 | 4+5 | - | 409 | 0099-1L |
| 2020.00 | cut Sh/Clst: ol gy to lt ol gy, lt ol gn | 0.47 | 8 | 0.05 | 4 | 4.0 | 414 | 0102-1L |
| 2155.00 | ccp Sh/Clst: m gy to drk gy | 0.46 | 4 | 0.03 | 4 | 4.0-5.0(?) | 423 | 0060-1L |
| 2205.00 | ccp Sh/Clst: drk gy | 0.45 | 8 | 0.06 | 4 | - | 420 | 0063-1L |
| 2380.00 | cut Sh/Clst: lt ol gy | 0.49 | 3 | 0.05 | 4+7 | 4.0 | - | 0111-1L |
| 2565.00 | swc Sh/Clst: ol blk | NDP | - | - | 4 | - | 394 | 0301-1L |
| 2615.50 | swc Sh/Clst: ol blk | 0.47 | 1 | 0.00 | 4 | 5.0 | - | 0304-1L |
| 2716.00 | ccp Sh/Clst: m drk gy | 0.44 | 2 | 0.01 | 4-5 | - | 434 | 0166-1L |
| 2837.00 | ccp Sltst : drk gy | 0.40 | 8 | 0.06 | 3-4 | - | - | 0297-2L |
| 2838.00 | ccp Sltst : drk gy | - | - | - | - | 5.0 | 425 | 0298-2L |
| 2865.00 | swc Sh/Clst: gy blk to dsk y brn | 0.42 | 11 | 0.06 | 4 | - | 429 | 0307-1L |

Depth unit of measure: m

| Depth | Typ | Lithology | Vitrinite Reflectance (%) | Number of Readings | Standard Deviation | Spore Fluorescence Colour | SCI | T _{max} (°C) | Sample |
|---------|-----|------------------------------|---------------------------|--------------------|--------------------|---------------------------|---------|-----------------------|---------|
| 2879.00 | cut | Sh/Clst: drk gy, pl y brn | - | - | - | - | 5.0-5.5 | - | 0147-1L |
| 2924.00 | cut | Sh/Clst: drk gy to dsk y brn | - | - | - | - | 5.0-5.5 | - | 0152-1L |
| 2988.00 | swc | Slst : drk gy | 0.43 | 14 | 0.05 | 5 | 6.0 | 437 | 0308-1L |

Table 10: Visual Kerogen Composition Data for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | L I P T % | A m o l % | L o p p o l % | S i p p o l % | C o c k l % | R e s i d u e % | A l k a n e % | D i f f e r e n t i a l % | A r o m a t i c % | B i t u m e n % | I n d e r i d e n t i f i c a b l e % | F u s i o n % | S e n s i t i v e % | M e t h o d % | S c r e e n % | B i t u m e n % | V I T R % | T e l l u r i t % | C o l l e c t i o n % | V o l u m e % | A r o m a t i c % | B i t u m e n % | Sample | | |
|---------|-----|--------------------------------------|-----------------------|-----------------------|---------------------------------|---------------------------------|----------------------------|--------------------------------------|---------------------------------|---|---|--------------------------------------|---|---------------------------------|--|---------------------------------|---------------------------------|--------------------------------------|-----------------------|---|---|---------------------------------|---|--------------------------------------|--------|---|---------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | % | % |
| 421.50 | swc | Sh/Clst: lt gy to lt brn gy | NDP | | | | | | | | | | NDP | | | | | | | NDP | | | | | | | 0001-1L |
| 623.50 | swc | Sltst : lt gy to lt brn gy | 40 | * | * | ** | ** | * | * | | | | 10 | | * | | | | | 50 | * | | * | | | | 0015-1L |
| 820.00 | swc | Sh/Clst: lt gy to m gy to dsk brn | 35 | | * | ** | * | ** | | | | | 25 | ** | * | | | | | 40 | ** | * | * | | | | 0028-1L |
| 1024.50 | swc | Sh/Clst: brn gy | NDP | * | | * | * | ** | | | | | NDP | ** | * | | | | | NDP | ** | | * | | | | 0041-1L |
| 1190.00 | swc | Sh/Clst: lt brn gy | 65 | | | ** | | ** | * | | | | 15 | | * | | | | | 20 | | | * | | | | 0058-1L |
| 1420.00 | cut | Sh/Clst: ol gy | NDP | | | * | | * | | | | | NDP | | * | | | | | NDP | | | * | | | | 0087-1L |
| 1620.00 | cut | Sh/Clst: lt ol gy to ol gy | NDP | | | * | | * | | | | | NDP | | * | | | | | NDP | | | * | | | | 0092-1L |
| 1820.00 | cut | Sh/Clst: ol gy to lt ol gy | NDP | | * | * | | ** | * | | | | NDP | | * | | | | | NDP | * | | ** | | | | 0097-1L |
| 2020.00 | cut | Sh/Clst: ol gy to lt ol gy, lt ol gn | NDP | ** | * | | | * | * | | | | NDP | | * | | | | | NDP | * | | ** | | | | 0102-1L |
| 2155.00 | ccp | Sh/Clst: m gy to drk gy | 5 | ** | * | * | | * | * | | | | 20 | ** | * | | | | | 75 | ** | | * | | | | 0060-1L |
| 2380.00 | cut | Sh/Clst: lt ol gy | 30 | ** | * | | | * | | | | | 35 | | * | | | | | 35 | | | * | | | | 0111-1L |
| 2615.50 | swc | Sh/Clst: ol blk | TR | | * | * | * | * | | | | | 50 | * | | | | | | 50 | ** | * | * | | | | 0304-1L |

Depth unit of measure: m

| Depth | Typ | Lithology | L I P T % | A m o r L t | L i p D e t | S p / P o l | C u t P i c l l | R e s i n e | A l g a l | D i o f l | A c r i t L | I N E R T % | F u s i n | S e m F u s | I n t e n s i t y | M e m b r e n o I | S c l e r o I | V I T R % | T e l l i n | C o l l i n | V i t i n t | A m o r t i c i t y | V V Sample | |
|---------|-----|------------------------------|-----------------------|----------------------------|----------------------------|----------------------------|--------------------------------------|----------------------------|-----------------------|-----------------------|----------------------------|----------------------------|-----------------------|----------------------------|---|---|---------------------------------|-----------------------|----------------------------|----------------------------|----------------------------|--|------------------|---------|
| 2838.00 | ccp | Sltst : drk gy | 5 | | * | * | ** | | | | | 20 | * | | | | | 75 | ** | * | * | | | 0298-2L |
| 2879.00 | cut | Sh/Clst: drk gy, pl y brn | 60 | ** | * | | ** | * | | | | 25 | * | | | | | 15 | ** | * | | | | 0147-1L |
| 2924.00 | cut | Sh/Clst: drk gy to dsk y brn | 45 | ** | * | | ** | * | | | | 30 | * | | | | | 25 | ** | * | | | | 0152-1L |
| 2988.00 | swc | Sltst : drk gy | 50 | * | ** | ** | * | | | | | 5 | ** | * | | | | 45 | ** | * | * | * | ? | 0308-1L |

Table 11A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 33/9-15

Depth unit of measure: m

| Depth | Typ | Lithology | EOM | Saturated | Aromatic | NSO | Asphaltenes | Kerogen | Sample |
|---------|-----|-----------|--------------------|-----------|----------|--------------------|-------------|---------|--------|
| 2736.00 | ccp | S/Sst | -28.44 | -29.03 | -28.13 | -27.71 | -27.94 | - | 0188-1 |
| 2738.00 | ccp | S/Sst | -28.46 | -28.79 | -27.87 | -27.65 | -27.94 | - | 0190-1 |
| 2740.00 | ccp | S/Sst | - | -27.72 | -26.81 | -27.40 | -27.13 | - | 0193-1 |
| 2743.50 | oil | bulk | -28.98 | -29.10 | -28.25 | -29.77 | -28.07 | - | 0315-0 |
| 2776.00 | ccp | S/Sst | -28.51 | -28.85 | -28.10 | -28.04 | -28.00 | - | 0230-1 |
| 2783.50 | oil | bulk | -30.22 * -30.18 | -29.22 | -28.48 | -32.27 * -32.00 | -29.25 | - | 0316-0 |
| 2829.80 | oil | bulk | -29.01 | -29.04 | -27.69 | -28.71 | -27.83 | - | 0317-0 |
| 2838.00 | ccp | Sltst | - | -28.59 | -27.03 | -27.20 | -26.44 | - | 0298-2 |
| 2879.00 | cut | Sh/Clst | -26.06 | -27.96 | -26.04 | -26.40 | -25.11 | - | 0147-1 |
| 2988.00 | swc | Sltst | - | -28.80 | -26.20 | -26.45 | -25.14 | - | 0308-1 |
| 3005.00 | cut | S/Sst | - | -27.29 | -26.15 | -26.61 | -25.82 | - | 0160-2 |

* Samples are rerun

Depth unit of measure: m

| <u>Depth</u> | <u>Typ</u> | <u>Lithology</u> | <u>Saturated</u> | <u>Aromatic</u> | <u>cv value</u> | <u>Sample</u> |
|--------------|------------|------------------|------------------|-----------------|-----------------|---------------|
| 2736.00 | ccp | S/Sst | -29.03 | -28.13 | -0.65 | 0188-1 |
| 2738.00 | ccp | S/Sst | -28.79 | -27.87 | -0.68 | 0190-1 |
| 2740.00 | ccp | S/Sst | -27.72 | -26.81 | -1.04 | 0193-1 |
| 2743.50 | oil | bulk | -29.10 | -28.25 | -0.74 | 0315-0 |
| 2776.00 | ccp | S/Sst | -28.85 | -28.10 | -1.04 | 0230-1 |
| 2783.50 | oil | bulk | -29.22 | -28.48 | -0.95 | 0316-0 |
| 2829.80 | oil | bulk | -29.04 | -27.69 | 0.35 | 0317-0 |
| 2838.00 | ccp | Sltst | -28.59 | -27.03 | 0.68 | 0298-2 |
| 2879.00 | cut | Sh/Clst | -27.96 | -26.04 | 1.28 | 0147-1 |
| 2988.00 | swc | Sltst | -28.80 | -26.20 | 3.05 | 0308-1 |
| 3005.00 | cut | S/Sst | -27.29 | -26.15 | -0.66 | 0160-2 |

Table 11C: Tabulation of carbon isotope data on oils for 33/9-14, 33/9-C32

| <u>Well</u> | <u>Descript.</u> | <u>Whole oil</u> | <u>Topped oil</u> | <u>Saturated</u> | <u>Aromatic</u> | <u>NSO</u> | <u>Asphaltenes</u> | <u>Sample</u> |
|-------------|------------------|------------------|-------------------|------------------|-----------------|------------|--------------------|---------------|
| 33/9-14 | DST 2.2 | -28.31 | -28.47 | -28.75 | -27.84 | -27.48 | -27.73 | H53/0001 |
| 33/9-C32 | | -29.21 | -29.15 | -29.33 | -28.38 | -28.46 | -28.38 | H53/0002 |

Table 11D: Tabulation of cv values from carbon isotope data for 33/9-14, 33/9-C32

| <u>Well</u> | <u>Descript.</u> | <u>Saturated</u> | <u>Aromatic</u> | <u>cv value</u> | <u>Sample</u> |
|-------------|------------------|------------------|-----------------|-----------------|---------------|
| 33/9-14 | DST 2.2 | -28.75 | -27.84 | -0.72 | H53/0001 |
| 33/9-C32 | | -29.33 | -28.38 | -0.45 | H53/0002 |

Table 12A: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 33/9-15

Depth unit of measure: m

| Depth | Lithology | B/A | B/B+A | B | | C/E | C/C+E | X/E | Z/E | Z/C | Z/Z+E | Q/E | E/E+F | C+D | | J1 | | Sample |
|---------|-----------|------|-------|-------|------|------|-------|------|------|------|-------|------|-------|---------|---------|--------|--|--------|
| | | | | B+E+F | | | | | | | | | | C+D+E+F | D+F/C+E | J1+J2% | | |
| 2736.00 | S/Sst | 0.94 | 0.48 | 0.11 | 0.42 | 0.30 | 0.08 | 0.16 | 0.39 | 0.14 | 0.10 | 0.93 | 0.30 | 0.08 | 58.18 | 0188-1 | | |
| 2738.00 | S/Sst | 0.91 | 0.48 | 0.13 | 0.41 | 0.29 | 0.08 | 0.17 | 0.41 | 0.15 | 0.11 | 0.93 | 0.29 | 0.08 | 60.43 | 0190-1 | | |
| 2740.00 | S/Sst | 0.91 | 0.48 | 0.14 | 0.53 | 0.35 | 0.04 | 0.10 | 0.19 | 0.09 | 0.25 | 0.95 | 0.35 | 0.06 | 59.22 | 0193-1 | | |
| 2743.50 | bulk | 0.90 | 0.47 | 0.10 | 0.39 | 0.28 | 0.07 | 0.15 | 0.38 | 0.13 | 0.08 | 0.93 | 0.28 | 0.08 | 59.53 | 0315-0 | | |
| 2776.00 | S/Sst | 1.02 | 0.50 | 0.14 | 0.43 | 0.30 | 0.08 | 0.19 | 0.44 | 0.16 | 0.15 | 0.93 | 0.30 | 0.09 | 60.32 | 0230-1 | | |
| 2783.50 | bulk | 1.02 | 0.51 | 0.13 | 0.46 | 0.31 | 0.07 | 0.18 | 0.39 | 0.15 | 0.13 | 0.92 | 0.32 | 0.09 | 59.99 | 0316-0 | | |
| 2829.80 | bulk | 0.89 | 0.47 | 0.12 | 0.43 | 0.30 | 0.08 | 0.18 | 0.41 | 0.15 | 0.12 | 0.92 | 0.30 | 0.08 | 59.46 | 0317-0 | | |
| 2838.00 | sltst | 1.68 | 0.63 | 0.20 | 0.57 | 0.36 | 0.06 | 0.14 | 0.25 | 0.12 | 0.14 | 0.89 | 0.38 | 0.16 | 52.59 | 0298-2 | | |
| 2879.00 | Sh/Clst | 9.40 | 0.90 | 0.25 | 0.48 | 0.33 | 0.07 | 0.05 | 0.10 | 0.04 | 0.05 | 0.73 | 0.34 | 0.41 | 45.16 | 0147-1 | | |
| 2988.00 | sltst | 2.70 | 0.73 | 0.22 | 0.60 | 0.38 | 0.07 | 0.12 | 0.19 | 0.10 | 0.01 | 0.83 | 0.38 | 0.23 | 54.71 | 0308-1 | | |
| 3005.00 | S/Sst | 4.16 | 0.81 | 0.23 | 0.55 | 0.35 | 0.04 | 0.16 | 0.30 | 0.14 | 0.19 | 0.86 | 0.37 | 0.18 | 56.23 | 0160-2 | | |

Depth unit of measure: m

| Depth | Lithology | Ratio1 | Ratio2 | Ratio3 | Ratio4 | Ratio5 | Ratio6 | Ratio7 | Ratio8 | Ratio9 | Ratio10 | Sample |
|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 2736.00 | S/Sst | 0.78 | 43.84 | 78.33 | 1.19 | 0.80 | 0.44 | 0.31 | 0.64 | 0.78 | 3.22 | 0188-1 |
| 2738.00 | S/Sst | 0.78 | 45.29 | 78.12 | 1.27 | 0.80 | 0.45 | 0.32 | 0.64 | 0.83 | 3.26 | 0190-1 |
| 2740.00 | S/Sst | 0.56 | 26.66 | 63.14 | 1.21 | 0.76 | 0.61 | 0.49 | 0.46 | 0.36 | 1.17 | 0193-1 |
| 2743.50 | bulk | 0.77 | 44.63 | 77.84 | 1.16 | 0.80 | 0.40 | 0.28 | 0.64 | 0.81 | 3.17 | 0315-0 |
| 2776.00 | S/Sst | 0.74 | 44.61 | 76.08 | 1.28 | 0.78 | 0.50 | 0.37 | 0.61 | 0.81 | 2.87 | 0230-1 |
| 2783.50 | bulk | 0.72 | 45.52 | 74.76 | 1.18 | 0.76 | 0.45 | 0.33 | 0.60 | 0.84 | 2.72 | 0316-0 |
| 2829.80 | bulk | 0.72 | 43.84 | 75.26 | 1.14 | 0.78 | 0.46 | 0.34 | 0.60 | 0.78 | 2.71 | 0317-0 |
| 2838.00 | sltst | 0.60 | 23.59 | 62.96 | 1.43 | 0.78 | 0.51 | 0.40 | 0.46 | 0.31 | 1.11 | 0298-2 |
| 2879.00 | Sh/Clst | 0.61 | 15.77 | 59.47 | 1.14 | 0.82 | 0.31 | 0.24 | 0.42 | 0.19 | 0.87 | 0147-1 |
| 2988.00 | sltst | 0.70 | 32.57 | 71.19 | 1.11 | 0.79 | 0.52 | 0.42 | 0.55 | 0.48 | 1.83 | 0308-1 |
| 3005.00 | S/Sst | 0.70 | 29.26 | 74.58 | 1.24 | 0.83 | 0.68 | 0.55 | 0.59 | 0.41 | 2.07 | 0160-2 |

Ratio1: $a / a + j$ Ratio2: $q / q + t * 100\%$ Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$ Ratio4: $a + b + c + d / h + k + l + n$ Ratio5: $r + s / r + s + q$ Ratio6: $u + v / u + v + q + r + s + t$ Ratio7: $u + v / u + v + i + m + n + q + r + s + t$ Ratio8: $r + s / q + r + s + t$ Ratio9: q / t Ratio10: $r + s / t$

Table 12C: Variation in Triaromatic Sterane Distribution for Well Well NOCS 33/9-15

Depth unit of measure: m

| Depth | Lithology | Ratio1 | Ratio2 | Ratio3 | Ratio4 | Ratio5 | Sample |
|---------|-----------|--------|--------|--------|--------|--------|--------|
| 2736.00 | S/Sst | 0.55 | 0.52 | 0.28 | 0.26 | 0.38 | 0188-1 |
| 2738.00 | S/Sst | 0.53 | 0.52 | 0.28 | 0.25 | 0.36 | 0190-1 |
| 2740.00 | S/Sst | 0.76 | 0.71 | 0.49 | 0.49 | 0.61 | 0193-1 |
| 2743.50 | bulk | 0.56 | 0.52 | 0.29 | 0.28 | 0.39 | 0315-0 |
| 2776.00 | S/Sst | 0.38 | 0.43 | 0.19 | 0.16 | 0.23 | 0230-1 |
| 2783.50 | bulk | 0.46 | 0.48 | 0.23 | 0.20 | 0.29 | 0316-0 |
| 2829.80 | bulk | 0.51 | 0.53 | 0.26 | 0.24 | 0.33 | 0317-0 |
| 2838.00 | Sltst | 0.59 | 0.46 | 0.27 | 0.32 | 0.39 | 0298-2 |
| 2879.00 | Sh/Clst | 0.39 | 0.25 | 0.18 | 0.20 | 0.31 | 0147-1 |
| 2988.00 | Sltst | 0.71 | 0.57 | 0.42 | 0.46 | 0.59 | 0308-1 |
| 3005.00 | S/Sst | 1.00 | 1.00 | 0.78 | 1.00 | 0.67 | 0160-2 |

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: $a1 / a1 + d1$

Depth unit of measure: m

| Depth | Lithology | Ratio1 | Ratio2 | Ratio3 | Ratio4 | Sample |
|---------|-----------|--------|--------|--------|--------|--------|
| 2736.00 | S/Sst | 0.38 | 0.24 | 0.26 | 0.21 | 0188-1 |
| 2738.00 | S/Sst | 0.38 | 0.28 | 0.25 | 0.21 | 0190-1 |
| 2740.00 | S/Sst | 0.45 | 0.31 | 0.31 | 0.27 | 0193-1 |
| 2743.50 | bulk | 0.41 | 0.27 | 0.27 | 0.22 | 0315-0 |
| 2776.00 | S/Sst | 0.41 | 0.24 | 0.28 | 0.23 | 0230-1 |
| 2783.50 | bulk | 0.41 | 0.29 | 0.27 | 0.24 | 0316-0 |
| 2829.80 | bulk | 0.41 | 0.28 | 0.28 | 0.24 | 0317-0 |
| 2838.00 | Sltst | 0.31 | 0.19 | 0.19 | 0.15 | 0298-2 |
| 2879.00 | Sh/Clst | 0.29 | 0.15 | 0.16 | 0.12 | 0147-1 |
| 2988.00 | Sltst | 0.51 | 0.36 | 0.32 | 0.28 | 0308-1 |
| 3005.00 | S/Sst | 0.52 | 0.26 | 0.33 | 0.27 | 0160-2 |

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

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

Table 12E: Aromatisation of Steranes for Well NOCS 33/9-15

Depth unit of measure: m

| Depth | Lithology | Ratio1 | Ratio2 | Sample |
|---------|-----------|--------|--------|--------|
| 2736.00 | S/Sst | 0.55 | 0.93 | 0188-1 |
| 2738.00 | S/Sst | 0.56 | 0.92 | 0190-1 |
| 2740.00 | S/Sst | 0.52 | 0.80 | 0193-1 |
| 2743.50 | bulk | 0.57 | 0.93 | 0315-0 |
| 2776.00 | S/Sst | 0.54 | 0.88 | 0230-1 |
| 2783.50 | bulk | 0.57 | 0.87 | 0316-0 |
| 2829.80 | bulk | 0.56 | 0.87 | 0317-0 |
| 2838.00 | Sltst | 0.78 | 0.39 | 0298-2 |
| 2879.00 | Sh/Clst | 0.86 | 0.40 | 0147-1 |
| 2988.00 | Sltst | 0.68 | 0.76 | 0308-1 |
| 3005.00 | S/Sst | 0.86 | - | 0160-2 |

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

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

Depth unit of measure: m

| Depth | Lithology | p | q | r | s | t | a | b | z | c | Sample |
|---------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|--------|
| | | x | d | e | f | g | h | i | j1 | | |
| | | j2 | k1 | k2 | l1 | l2 | m1 | m2 | | | |
| 2736.00 | S/Sst | 145792.0 | 108246.2 | 53808.4 | 73955.1 | 27340.4 | 156807.5 | 147137.1 | 173965.2 | 446753.6 | 0188-1 |
| | | 79412.0 | 39276.0 | 1057061.0 | 80614.6 | 488374.4 | 314106.3 | 30435.7 | 318852.0 | | |
| | | 229193.6 | 236780.4 | 159056.8 | 150994.3 | 95922.0 | 157970.6 | 93522.1 | | | |
| 2738.00 | S/Sst | 175506.1 | 127907.2 | 73216.3 | 98864.0 | 31387.6 | 207430.4 | 189226.8 | 205313.3 | 501633.3 | 0190-1 |
| | | 92523.3 | 40236.5 | 1208789.8 | 94799.2 | 535183.2 | 352966.5 | 34863.2 | 340076.3 | | |
| | | 222718.2 | 226029.2 | 146899.0 | 152065.5 | 93716.0 | 137140.4 | 80842.3 | | | |
| 2740.00 | S/Sst | 53737.0 | 28110.0 | 8955.8 | 14367.7 | 4440.6 | 20993.8 | 19023.9 | 11347.6 | 60372.4 | 0193-1 |
| | | 4818.4 | 4908.2 | 114012.7 | 6004.8 | 39670.7 | 25471.1 | 3215.7 | 22993.4 | | |
| | | 15831.0 | 16385.7 | 11340.1 | 10043.8 | 6945.5 | 10123.6 | 6671.9 | | | |
| 2743.50 | bulk | 166316.0 | 114208.9 | 60131.3 | 87432.0 | 30451.6 | 192568.5 | 172817.0 | 206537.4 | 536483.6 | 0315-0 |
| | | 97138.6 | 44096.0 | 1379169.6 | 111543.9 | 629937.5 | 419354.7 | 41104.0 | 446007.2 | | |
| | | 303209.3 | 323420.3 | 212960.0 | 215125.4 | 133952.0 | 219813.8 | 141185.8 | | | |
| 2776.00 | S/Sst | 15680.3 | 106036.0 | 45773.5 | 69503.4 | 21835.7 | 125432.0 | 127757.9 | 132094.0 | 301926.9 | 0230-1 |
| | | 55596.2 | 31771.6 | 705967.5 | 57122.0 | 263751.1 | 173026.3 | 20572.0 | 160451.5 | | |
| | | 105550.3 | 112134.7 | 76494.4 | 68761.1 | 43395.1 | 66628.0 | 39142.9 | | | |

Depth unit of measure: m

| Depth | Lithology | p | q | r | s | t | a | b | z | c | Sample |
|---------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|--------|
| | | x | d | e | f | g | h | i | j1 | | |
| | | j2 | k1 | k2 | l1 | l2 | m1 | m2 | | | |
| 2783.50 | bulk | 102625.4 | 75466.3 | 33578.3 | 47226.0 | 15451.6 | 90061.9 | 92232.0 | 105085.0 | 269792.5 | 0316-0 |
| | | 41295.6 | 27204.0 | 591452.4 | 49032.9 | 243483.0 | 157449.1 | 17172.4 | 153679.6 | | |
| | | 102511.3 | 107029.8 | 70015.5 | 68918.0 | 46605.9 | 67147.8 | 44196.0 | | | |
| 2829.80 | bulk | 98157.9 | 66345.8 | 33368.0 | 47272.0 | 15222.0 | 90693.9 | 80756.0 | 97434.4 | 239222.8 | 0317-0 |
| | | 42364.2 | 20364.0 | 554575.9 | 45868.0 | 214894.8 | 148322.8 | 14978.8 | 142085.9 | | |
| | | 96867.1 | 104730.1 | 67184.0 | 66482.9 | 40920.0 | 61440.8 | 41618.2 | | | |
| 2838.00 | sltst | 77214.1 | 44087.2 | 17716.1 | 33762.0 | 9265.8 | 50501.7 | 84980.9 | 43276.4 | 174738.9 | 0298-2 |
| | | 18592.3 | 38566.8 | 306757.9 | 38824.0 | 122003.8 | 93556.1 | 23650.8 | 55033.2 | | |
| | | 49608.4 | 36846.7 | 32347.6 | 19699.4 | 22227.0 | 29965.3 | 37996.6 | | | |
| 2879.00 | Sh/Clst | 88107.7 | 54173.8 | 23162.2 | 62602.3 | 9888.5 | 53344.0 | 501316.3 | 51536.0 | 533201.6 | 0147-1 |
| | | 73326.5 | 262667.3 | 1102077.6 | 409505.0 | 597616.0 | 503520.8 | 252893.9 | 173830.1 | | |
| | | 211081.5 | 90933.8 | 127807.4 | 63070.4 | 93498.9 | 65377.8 | 94575.8 | | | |
| 2988.00 | sltst | 142801.9 | 8868.6 | 37614.3 | 74029.9 | 18437.8 | 81043.4 | 218792.0 | 74354.1 | 383859.6 | 0308-1 |
| | | 41908.8 | 95557.5 | 635648.0 | 134225.6 | 300276.8 | 216136.0 | 89912.0 | 127695.6 | | |
| | | 105718.7 | 64124.0 | 53267.5 | 37733.2 | 33295.2 | 30279.4 | 24725.3 | | | |

Depth unit of measure: m

| Depth | Lithology | p | q | r | s | t | a | b | z | c | Sample |
|---------|-----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|--------|
| | | x | d | e | f | g | h | i | j1 | | |
| | | j2 | k1 | k2 | l1 | l2 | m1 | m2 | | | |
| 3005.00 | S/Sst | 41910.7 | 25646.4 | 7412.1 | 12614.2 | 3265.2 | 11299.3 | 46952.5 | 21877.5 | 73229.3 | 0160-2 |
| | | 5759.5 | 16643.8 | 133166.8 | 20867.6 | 56390.4 | 38490.2 | 13428.0 | 20226.9 | | |
| | | 15744.6 | 9214.6 | 7886.3 | 5502.2 | 3915.0 | 3470.9 | 3580.4 | | | |

Table 12G: Raw GCMS sterane data (peak height) SIR for Well NOCS 33/9-15

Depth unit of measure: m

| Depth | Lithology | u | v | a | b | c | d | e | f | g | Sample |
|---------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | h | i | j | k | l | m | n | o | | |
| | | p | q | r | s | t | | | | | |
| 2736.00 | S/Sst | 212267.3 | 124163.5 | 383755.7 | 229426.8 | 89732.4 | 95392.0 | 174192.0 | 93336.1 | 116426.6 | 0188-1 |
| | | 353482.6 | 172298.6 | 106700.6 | 159965.0 | 54343.1 | 45887.3 | 103708.7 | 133660.7 | | |
| | | 57220.9 | 66986.3 | 154924.2 | 121196.2 | 85815.8 | | | | | |
| 2738.00 | S/Sst | 261712.7 | 142952.4 | 463528.5 | 276935.7 | 109351.4 | 123060.8 | 225931.5 | 118136.5 | 138180.3 | 0190-1 |
| | | 421542.7 | 203911.2 | 131311.8 | 181153.4 | 54918.6 | 51768.5 | 111238.9 | 146321.2 | | |
| | | 63785.8 | 79565.6 | 170916.6 | 142663.7 | 96126.5 | | | | | |
| 2740.00 | S/Sst | 58029.9 | 24467.8 | 42887.3 | 21989.5 | 9088.1 | 7954.0 | 18118.7 | 9807.1 | 18659.7 | 0193-1 |
| | | 33584.5 | 16888.5 | 33117.3 | 18579.1 | 5942.4 | 5891.7 | 9555.6 | 10207.9 | | |
| | | 14788.7 | 7462.7 | 14827.0 | 9145.2 | 20530.0 | | | | | |
| 2743.50 | bulk | 222976.0 | 125195.8 | 414310.4 | 242047.4 | 100065.4 | 104095.0 | 204442.4 | 101664.9 | 134012.0 | 0315-0 |
| | | 388123.7 | 200123.4 | 122019.1 | 184793.8 | 57469.0 | 46968.6 | 112584.6 | 150341.6 | | |
| | | 69489.4 | 85555.4 | 182405.6 | 154314.0 | 106150.9 | | | | | |
| 2776.00 | S/Sst | 233097.3 | 116424.0 | 311247.5 | 181309.2 | 66565.0 | 75214.5 | 147649.5 | 72702.0 | 114331.2 | 0230-1 |
| | | 257670.6 | 126534.6 | 108432.3 | 121743.8 | 38997.7 | 40360.9 | 77048.7 | 95646.7 | | |
| | | 54201.4 | 60028.5 | 120079.2 | 93943.4 | 74542.9 | | | | | |

Depth unit of measure: m

| Depth | Lithology | u | v | a | b | c | d | e | f | g | Sample |
|---------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | h | i | j | k | l | m | n | o | | |
| | | p | q | r | s | t | | | | | |
| 2783.50 | bulk | 145220.3 | 81742.5 | 223706.8 | 128299.1 | 49070.5 | 50893.5 | 105987.0 | 49290.3 | 74847.3 | 0316-0 |
| | | 204380.4 | 103420.4 | 85872.8 | 94076.4 | 30210.6 | 26755.5 | 54886.0 | 79826.6 | | |
| | | 41131.3 | 51132.2 | 91263.0 | 75068.4 | 61188.9 | | | | | |
| 2829.80 | bulk | 141204.9 | 79910.8 | 200710.7 | 122815.1 | 38670.2 | 51554.6 | 102508.2 | 52756.7 | 71004.2 | 0317-0 |
| | | 186911.0 | 90841.1 | 79657.9 | 88688.0 | 31863.4 | 28559.7 | 55391.7 | 73055.7 | | |
| | | 37930.0 | 45542.1 | 85767.4 | 72227.6 | 58332.7 | | | | | |
| 2838.00 | sltst | 125309.4 | 66351.2 | 176450.0 | 109466.5 | 45673.1 | 44694.9 | 77051.9 | 42038.6 | 70181.4 | 0298-2 |
| | | 132264.9 | 59400.9 | 118511.1 | 77213.8 | 24044.8 | 16348.4 | 29051.5 | 39483.5 | | |
| | | 53515.8 | 23829.0 | 54337.3 | 31522.1 | 77198.3 | | | | | |
| 2879.00 | Sh/Clst | 224375.4 | 90258.7 | 512274.6 | 360534.9 | 187791.0 | 153347.7 | 223207.8 | 138663.8 | 161514.9 | 0147-1 |
| | | 505066.9 | 150954.9 | 330668.4 | 340652.9 | 127901.1 | 53060.0 | 86675.1 | 103027.1 | | |
| | | 147573.8 | 63509.4 | 204426.2 | 91001.7 | 339237.8 | | | | | |
| 2988.00 | sltst | 214915.9 | 96508.2 | 216060.0 | 127606.3 | 54651.7 | 52952.7 | 100767.0 | 51482.9 | 68697.4 | 0308-1 |
| | | 215673.4 | 86247.6 | 91133.0 | 109544.3 | 37702.8 | 21381.3 | 43653.3 | 59941.3 | | |
| | | 43122.3 | 41649.4 | 93377.3 | 64577.3 | 86224.1 | | | | | |

Depth unit of measure: m

| Depth | Lithology | u | v | a | b | c | d | e | f | g | Sample |
|---------|-----------|---------|---------|---------|---------|---------|--------|---------|---------|---------|--------|
| | | h | i | j | k | l | m | n | o | | |
| | | p | q | r | s | t | | | | | |
| 3005.00 | S/Sst | 62851.1 | 23034.1 | 41270.5 | 24705.2 | 8992.4 | 9190.1 | 15354.2 | 10115.7 | 13759.5 | 0160-2 |
| | | 37965.5 | 15421.5 | 17613.5 | 17015.5 | 5197.7 | 5492.8 | 7521.2 | 9969.2 | | |
| | | 5880.1 | 4831.1 | 15916.9 | 8300.0 | 11678.6 | | | | | |

Depth unit of measure: m

| Depth | Lithology | a1 | b1 | c1 | d1 | e1 | f1 | g1 | Sample |
|---------|-----------|----------|----------|----------|-----------|-----------|----------|----------|--------|
| 2736.00 | S/Sst | 331401.9 | 303472.0 | 128307.2 | 550926.1 | 344972.6 | 298828.2 | 275728.0 | 0188-1 |
| 2738.00 | S/Sst | 387765.4 | 380851.5 | 147482.0 | 698509.0 | 416016.0 | 372547.3 | 346126.9 | 0190-1 |
| 2740.00 | S/Sst | 379613.6 | 293528.6 | 68885.3 | 239081.9 | 146990.0 | 129309.5 | 121112.0 | 0193-1 |
| 2743.50 | bulk | 387939.9 | 334048.0 | 146664.9 | 618429.8 | 381145.9 | 333292.9 | 305695.7 | 0315-0 |
| 2776.00 | S/Sst | 510963.3 | 630680.9 | 478886.4 | 1693460.8 | 1027305.1 | 825120.0 | 826661.1 | 0230-1 |
| 2783.50 | bulk | 365606.5 | 410144.0 | 262074.0 | 894937.0 | 553372.0 | 441144.8 | 437656.0 | 0316-0 |
| 2829.80 | bulk | 414357.8 | 450312.7 | 261880.5 | 852315.8 | 500056.0 | 421042.2 | 403197.0 | 0317-0 |
| 2838.00 | Sltst | 235539.7 | 140124.4 | 125023.2 | 373755.5 | 175108.9 | 166345.8 | 161602.1 | 0298-2 |
| 2879.00 | Sh/Clst | 86734.0 | 44690.7 | 78862.0 | 191012.0 | 123630.6 | 86557.3 | 133368.5 | 0147-1 |
| 2988.00 | Sltst | 76313.8 | 42181.1 | 16096.2 | 53676.3 | 33397.9 | 25589.8 | 31722.0 | 0308-1 |
| 3005.00 | S/Sst | 19305.2 | 14279.6 | 0.0 | 9652.0 | 0.0 | 0.0 | 0.0 | 0160-2 |

Table 12I: Raw GCMS monoaromatic sterane data (peak height) for Well NOCS 33/9-15

Depth unit of measure: m

| Depth | Lithology | a1 | b1 | c1 | d1 | e1 | f1 | g1 | h1 | i1 | Sample |
|---------|-----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|--------|
| 2736.00 | S/Sst | 344932.9 | 175023.3 | 354528.0 | 269072.8 | 558420.0 | 100278.5 | 436026.1 | 228242.0 | 22209.1 | 0188-1 |
| 2738.00 | S/Sst | 411232.0 | 258278.0 | 423512.0 | 354918.4 | 670873.6 | 128805.5 | 582655.5 | 306673.7 | 29306.5 | 0190-1 |
| 2740.00 | S/Sst | 184662.9 | 102755.9 | 121360.0 | 94619.7 | 223526.2 | 32348.7 | 182903.8 | 91309.5 | 30836.0 | 0193-1 |
| 2743.50 | bulk | 431401.8 | 223018.8 | 424205.6 | 330041.6 | 610521.4 | 120102.8 | 563198.6 | 293964.8 | 21498.5 | 0315-0 |
| 2776.00 | S/Sst | 1146880.0 | 536011.5 | 1005408.1 | 660973.2 | 1673259.4 | 250269.5 | 1319360.0 | 651355.2 | 114898.0 | 0230-1 |
| 2783.50 | bulk | 663122.3 | 393820.0 | 631652.9 | 430970.7 | 971354.7 | 160063.0 | 783717.8 | 378644.2 | 64560.0 | 0316-0 |
| 2829.80 | bulk | 609433.6 | 343756.3 | 568452.5 | 366405.3 | 885077.3 | 144973.3 | 707244.9 | 331184.0 | 60916.0 | 0317-0 |
| 2838.00 | Sltst | 412264.3 | 216717.0 | 443704.0 | 427578.0 | 908090.1 | 117131.8 | 832493.9 | 626353.0 | 252426.4 | 0298-2 |
| 2879.00 | Sh/Clst | 350881.6 | 156356.3 | 486067.4 | 449587.1 | 856457.9 | 176662.6 | 983820.1 | 534302.5 | 200900.6 | 0147-1 |
| 2988.00 | Sltst | 83265.8 | 44902.4 | 38563.0 | 32032.9 | 78446.6 | 19293.0 | 96876.5 | 58379.6 | 10089.2 | 0308-1 |
| 3005.00 | S/Sst | 16583.3 | 5525.2 | 8302.5 | 5489.4 | 15542.9 | 2451.3 | 17734.7 | 8292.2 | 2124.2 | 0160-2 |

Depth unit of measure: m

| Well | Lithology | B/A | B/B+A | B | | C/E | C/C+E | X/E | Z/E | Z/C | Z/Z+E | Q/E | C+D | | J1 | | Sample |
|----------|-----------|------|-------|-------|--|------|-------|------|------|------|-------|------|-------|---------|---------|--------|--------|
| | | | | B+E+F | | | | | | | | | E/E+F | C+D+E+F | D+F/C+E | J1+J2% | |
| 33/9-14 | Dst 2.2 | 0.75 | 0.43 | 0.12 | | 0.40 | 0.29 | 0.12 | 0.14 | 0.34 | 0.12 | 0.14 | 0.94 | 0.29 | 0.07 | 59.46 | 0001-0 |
| 33/9-C32 | | 0.74 | 0.42 | 0.11 | | 0.41 | 0.29 | 0.08 | 0.19 | 0.47 | 0.16 | 0.15 | 0.94 | 0.31 | 0.09 | 61.41 | 0002-0 |

Depth unit of measure: m

| Well | Lithology | Ratio1 | Ratio2 | Ratio3 | Ratio4 | Ratio5 | Ratio6 | Ratio7 | Ratio8 | Ratio9 | Ratio10 | Sample |
|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 33/9-14 | Dst 2.2 | 0.79 | 46.03 | 79.05 | 1.31 | 0.80 | 0.51 | 0.38 | 0.65 | 0.85 | 3.50 | 0001-0 |
| 33/9-C32 | | 0.72 | 44.71 | 76.28 | 1.01 | 0.78 | 0.46 | 0.34 | 0.62 | 0.81 | 2.91 | 0002-0 |

Ratio1: $a / a + j$
 Ratio2: $q / q + t * 100\%$
 Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$
 Ratio4: $a + b + c + d / h + k + l + n$
 Ratio5: $r + s / r + s + q$

Ratio6: $u + v / u + v + q + r + s + t$
 Ratio7: $u + v / u + v + i + m + n + q + r + s + t$
 Ratio8: $r + s / q + r + s + t$
 Ratio9: q / t
 Ratio10: $r + s / t$

Depth unit of measure: m

| <u>Well</u> | <u>Lithology</u> | <u>Ratio1</u> | <u>Ratio2</u> | <u>Ratio3</u> | <u>Ratio4</u> | <u>Ratio5</u> | <u>Sample</u> |
|-------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 33/9-14 | Dst 2.2 | 0.73 | 0.69 | 0.43 | 0.43 | 0.54 | 0001-0 |
| 33/9-C32 | | 0.75 | 0.71 | 0.42 | 0.43 | 0.53 | 0002-0 |

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: $a1 / a1 + d1$

Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Table 12M: Variation in Monoaromatic Sterane Distribution for Well OILS 33/9-14, 33/9-C32

Depth unit of measure: m

| <u>Well</u> | <u>Lithology</u> | <u>Ratio1</u> | <u>Ratio2</u> | <u>Ratio3</u> | <u>Ratio4</u> | <u>Sample</u> |
|-------------|------------------|---------------|---------------|---------------|---------------|---------------|
| 33/9-14 | Dst 2.2 | 0.50 | 0.37 | 0.35 | 0.30 | 0001-0 |
| 33/9-C32 | | 0.50 | 0.37 | 0.37 | 0.32 | 0002-0 |

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

Depth unit of measure: m

| <u>Well</u> | <u>Lithology</u> | <u>Ratio1</u> | <u>Ratio2</u> | <u>Sample</u> |
|-------------|------------------|---------------|---------------|---------------|
| 33/9-14 | Dst 2.2 | 0.58 | 0.91 | 0001-0 |
| 33/9-C32 | | 0.49 | 0.86 | 0002-0 |

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

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

Table 120: Raw GCMS triterpane data (peak height) SIR for Well OILS 33/9-14, 33/9-C32

Depth unit of measure: m

| Well | Lithology | p | q | r | s | t | a | b | z | c | Sample |
|----------|-----------|---------|---------|----------|---------|----------|---------|---------|---------|----------|--------|
| | | x | d | e | f | g | h | i | j1 | | |
| | | j2 | k1 | k2 | l1 | l2 | m1 | m2 | | | |
| 33/9-14 | Dst 2.2 | 66401.6 | 45952.0 | 21053.4 | 29238.0 | 9548.8 | 62303.1 | 46912.6 | 44760.0 | 130504.8 | 0001-0 |
| | | 37497.5 | 11938.9 | 324472.1 | 21509.6 | 135997.8 | 91139.6 | 8116.5 | 89174.9 | | |
| | | 60801.6 | 59350.1 | 42468.5 | 42290.7 | 26532.6 | 42551.3 | 25790.3 | | | |
| 33/9-C32 | | 71932.3 | 54264.0 | 25126.3 | 29878.6 | 10819.3 | 64784.0 | 47642.7 | 67317.8 | 144399.6 | 0002-0 |
| | | 29626.7 | 21632.4 | 350109.0 | 24218.8 | 131174.2 | 89873.5 | 9197.0 | 83183.4 | | |
| | | 52261.9 | 65420.5 | 39317.8 | 37162.0 | 24790.6 | 29033.9 | 19697.2 | | | |

Depth unit of measure: m

| Well | Lithology | u | v | a | b | c | d | e | f | g | Sample |
|----------|-----------|----------|---------|----------|---------|---------|---------|---------|---------|---------|--------|
| | | h | i | j | k | l | m | n | o | | |
| | | p | q | r | s | t | | | | | |
| 33/9-14 | Dst 2.2 | 95194.3 | 50015.2 | 145157.4 | 79519.6 | 30331.8 | 29370.2 | 73082.2 | 36567.1 | 38142.5 | 0001-0 |
| | | 113802.6 | 53882.6 | 38649.9 | 56713.9 | 17171.2 | 14402.3 | 29610.5 | 42940.7 | | |
| | | 17425.8 | 22138.0 | 51415.3 | 39319.3 | 25957.1 | | | | | |
| 33/9-C32 | | 135558.9 | 73632.9 | 147042.7 | 85778.7 | 28592.0 | 30965.6 | 71391.2 | 32529.6 | 62195.1 | 0002-0 |
| | | 154451.1 | 75731.1 | 57501.8 | 61099.4 | 18959.1 | 29264.3 | 54615.1 | 67605.8 | | |
| | | 31560.8 | 41765.5 | 84112.3 | 66123.7 | 51647.0 | | | | | |

Table 12Q: Raw GCMS triaromatic sterane data (peak height) for Well OILS 33/9-14, 33/9-C32

Depth unit of measure: m

| Well | Lithology | a1 | b1 | c1 | d1 | e1 | f1 | g1 | Sample |
|----------|-----------|----------|----------|---------|----------|----------|----------|----------|--------|
| 33/9-14 | Dst 2.2 | 359517.4 | 298160.9 | 88333.5 | 302446.5 | 189464.6 | 152267.9 | 135142.4 | 0001-0 |
| 33/9-C32 | | 315281.1 | 257813.2 | 80293.8 | 283146.3 | 162752.0 | 153526.6 | 102776.0 | 0002-0 |

Depth unit of measure: m

| Well | Lithology | a1 | b1 | c1 | d1 | e1 | f1 | g1 | h1 | i1 | Sample |
|----------|-----------|----------|----------|----------|----------|----------|---------|----------|----------|---------|--------|
| 33/9-14 | Dst 2.2 | 333432.0 | 198032.1 | 241254.8 | 165094.1 | 334443.1 | 65595.9 | 276056.0 | 125022.7 | 13768.0 | 0001-0 |
| 33/9-C32 | | 224461.6 | 130720.4 | 131996.0 | 91656.3 | 220287.0 | 33509.2 | 167518.4 | 81805.2 | 17276.5 | 0002-0 |