Core Petrophysics, Inc.

LINDER OIL COMPANY
BETTY D. BLANCHARD
JEANERETTE FIELD
ST. MARY, LOUISIANA



1015 NORTH CRUSE • BROUSSARD, LA 70518
(318) 837-8616 • FAX: (318) 837-2999 • E-mail 103070.2232@compuserve.com

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FORMATION :
DRLG FLUID : WATER BASE
LOCATION :
CORES : SCHLUMBERGER

FILE NO. : 3–961115–1
DATE : NOVEMBER 15, 1996
API NO. :
ANALYSTS : JAE

# *SIDEWALL CORE ANALYSIS*

| SPL # | REC (in) | DEPTH (ft) | Kair (mD)* | POR (%) | Sco (%) | Stw (%) | PROB PROD | Ob (%) | Gb (%) | Sciw (%) | GAS DET | LITHOLOGY | FLU | CUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.8 | 4996.0 | 270.0 | 26.2 | 0.0 | 83.1 | Water | 0.0 | 4.4 | 43 | 0 | Sd fg shy foss | min | no |
| 2 | 1.2 | 6060.0 | 520.0 | 28.2 | 0.0 | 79.0 | Gas | 0.0 | 5.9 | 46 | 1 | Sd fg sshy | no | no |
| | | 6062.0 | | | | | | | | | | Empty bottle | | |
| 3 | 0.8 | 6063.0 | 115.0 | 24.3 | 0.0 | 69.0 | Gas | 0.0 | 7.5 | 57 | 2 | Sd vfg shy slty | no | no |
| 4 | 1.5 | 6064.0 | 42.0 | 22.1 | 0.0 | 72.2 | Gas | 0.0 | 6.1 | 64 | 3 | Sd vfg shy–vshy slty | no | no |
| | | 6070.0 | | | | | | | | | | Empty bottle | | |
| 5 | 1.3 | 6071.0 | 37.0 | 21.6 | 0.0 | 77.4 | Gas | 0.0 | 4.9 | 64 | 3 | Sd vfg shy–vshy lam(4) | no | no |
| 6 | 0.6 | 6072.0 | 182.0 | 28.0 | 0.0 | 61.4 | Gas | 0.0 | 10.8 | 54 | 1 | Sd vfg shy slty lam(4) | no | no |
| 7 | 0.5 | 6074.0 | 135.0 | 28.4 | 0.0 | 66.5 | Gas | 0.0 | 9.5 | 59 | 1 | Sd vfg shy slty | no | no |
| 8 | 0.5 | 6075.0 | 230.0 | 31.6 | 0.0 | 62.4 | Gas | 0.0 | 11.9 | 55 | 1 | Sd fg sshy slty | no | no |
| | | 6080.0 | | | | | | | | | | Empty bottle | | |
| 9 | 0.6 | 6081.0 | 28.0 | 20.4 | 0.0 | 83.0 | Gas | 0.0 | 3.5 | 66 | 1 | Sd vfg shy slty lam(3) | no | no |
| 10 | 0.9 | 6082.0 | 122.0 | 25.0 | 0.0 | 72.0 | Gas | 0.0 | 7.0 | 57 | 3 | Sd vfg shy slty | no | no |
| 11 | 0.9 | 6096.0 | 88.0 | 23.8 | 0.0 | 68.1 | Gas | 0.0 | 7.6 | 59 | 7 | Sd vfg shy slty foss | no | no |
| 12 | 1.2 | 6097.0 | 42.0 | 21.3 | 0.0 | 69.0 | Gas | 0.0 | 6.6 | 62 | 8 | Sd vfg shy slty vfoss | no | no |
| 13 | 0.9 | 6098.0 | 12.0 | 21.7 | 0.0 | 68.6 | Gas | 0.0 | 6.8 | 73 | 3 | Sd vfg vshy foss | no | no |
| 14 | 0.9 | 6110.0 | 115.0 | 23.8 | 0.0 | 76.3 | Gas | 0.0 | 5.6 | 56 | 2 | Sd vfg sshy slty | no | no |
| 15 | 0.9 | 6111.0 | 92.0 | 22.2 | 0.0 | 75.5 | Gas | 0.0 | 5.4 | 56 | 4 | Sd vfg shy slty | no | no |
| 16 | 0.9 | 6113.0 | 106.0 | 26.8 | 0.0 | 61.5 | Gas | 0.0 | 10.3 | 59 | 9 | Sd vfg shy vslty | no | no |
| 17 | 0.8 | 6114.0 | 36.0 | 20.4 | 2.1 | 58.6 | Gas | 0.4 | 8.0 | 62 | 6 | Sd vfg shy slty lam(3) | stks vft | vft |
| 18 | 0.9 | 6116.0 | 134.0 | 27.4 | 3.6 | 73.7 | Gas | 1.0 | 6.2 | 58 | 10 | Sd vfg shy slty | vft | vft |
| 19 | 0.6 | 6122.0 | 60.0 | 23.5 | 0.0 | 74.0 | Gas | 0.0 | 6.1 | 61 | 3 | Sd vfg shy slty | no | vft |
| 20 | 0.8 | 6124.0 | 56.0 | 23.4 | 0.0 | 59.4 | Gas | 0.0 | 9.5 | 63 | 4 | Sd vfg shy | no | no |
| 21 | 0.9 | 6126.0 | 92.0 | 24.0 | 0.0 | 58.5 | Gas | 0.0 | 9.9 | 57 | 4 | Sd vfg shy slty lam(3) | no | no |
| 22 | 0.5 | 6128.0 | 144.0 | 28.9 | 0.0 | 62.2 | Gas | 0.0 | 10.9 | 59 | 3 | Sd vfg shy slty | no | no |
| 23 | 1.3 | 6130.0 | 125.0 | 24.6 | 1.8 | 75.5 | Gas | 0.5 | 5.6 | 55 | 10 | Sd vfg shy slty | vft | vft |
| 24 | 0.6 | 6132.0 | 195.0 | 29.1 | 3.9 | 82.6 | Gas | 1.1 | 3.9 | 54 | 3 | Sd vfg shy slty | vft | vft |



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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 0.5 | 6134.0 | 62.0 | 23.2 | 6.2 | 73.3 | Oil | 1.4 | 4.8 | 54 | 11 | Sd vfg shy slty (34° API) | mott ft | vft |
| 26 | 0.5 | 6136.0 | 345.0 | 28.3 | 5.8 | 80.8 | Oil | 1.6 | 3.8 | 42 | 7 | Sd fg sshy slty | ft gld | ft |
| | | 6138.0 | | | | | | | | | | Empty bottle | | |
| 27 | 0.4 | 6140.0 | 2200.0 | 33.4 | 9.9 | 81.5 | Oil | 3.3 | 2.9 | 37 | 2 | Sd fg clean flushed | gld | gd |
| 28 | 0.5 | 6145.0 | 255.0 | 30.4 | 5.4 | 69.6 | Oil | 1.6 | 7.6 | 45 | 3 | Sd vfg shy | mott gld | gd |
| 29 | 0.6 | 6146.0 | 270.0 | 27.1 | 1.5 | 61.0 | Oil | 0.4 | 10.2 | 43 | 7 | Sd vfg shy slty | gld | gd |
| 30 | 0.9 | 6148.0 | 178.0 | 26.8 | 8.5 | 49.8 | Oil | 2.3 | 11.2 | 48 | 14 | Sd vfg shy slty | mott gld | gd |
| 31 | 0.6 | 6152.0 | 6.9 | 16.9 | 0.0 | 85.4 | (6) | 0.0 | 2.5 | 62 | 1 | Sd vfg vshy slty | no | no |
| 32 | 0.9 | 6153.0 | 360.0 | 31.6 | 22.0 | 59.1 | Oil | 7.0 | 6.0 | 43 | 9 | Sd vfg sshy slty | gld | gd |
| 33 | 0.9 | 6156.0 | 480.0 | 34.6 | 37.2 | 38.0 | Oil | 12.8 | 8.6 | 44 | 9 | Sd fg sshy slty (37° API) | gld | gd |
| | | 6158.0 | | | | | | | | | | Empty bottle | | |
| | | 6160.0 | | | | | | | | | | Empty bottle | | |
| 34 | 0.5 | 6162.0 | 1270.0 | 33.9 | 13.9 | 67.7 | Oil | 4.7 | 6.2 | 38 | 4 | Sd fg sshy | gld | gd |
| 35 | 1.2 | 6164.0 | 360.0 | 31.6 | 4.3 | 68.9 | Oil | 1.4 | 8.5 | 43 | 3 | Sd fg sshy slty lam(4) | stks gld | gd |
| | | 6170.0 | | | | | | | | | | Empty bottle | | |
| 36 | 0.9 | 6309.0 | 56.0 | 24.0 | 22.5 | 48.0 | Oil | 5.4 | 7.1 | 57 | 11 | Sd fg sshy slty vcalc (37° API) | gld | gd |
| 37 | 1.0 | 6314.0 | 210.0 | 31.5 | 13.5 | 57.5 | Oil | 4.2 | 9.1 | 48 | 16 | Sd fg sshy calc | gld | gd |
| | 1.5 | 6414.0 | | | | | | | | | 1 | Shale calc | | |
| 38 | 1.0 | 6417.0 | 490.0 | 30.6 | 3.1 | 51.7 | Cond | 0.9 | 13.8 | 46 | 5 | Sd vfg sshy | ft gld | gd |
| | | 6423.0 | | | | | | | | | | Empty bottle | | |
| | | 6424.0 | | | | | | | | | | Empty bottle | | |
| 39 | 1.2 | 6594.0 | 14.0 | 20.5 | 4.1 | 69.2 | Cond | 0.8 | 5.5 | 70 | 8 | Sd vfg vshy slty calc | ft gld | gd |
| 40 | 1.2 | 6595.0 | 22.0 | 22.6 | 8.4 | 70.4 | Cond | 1.9 | 4.8 | 69 | 9 | Sd vfg shy slty calc | mott ft | ft |
| 41 | 1.5 | 6603.0 | 6.4 | 16.9 | 1.8 | 64.5 | (6) | 0.3 | 5.7 | 62 | 9 | Sd vfg vshy vfoss | spts min | no |
| 42 | 0.5 | 6604.0 | 1600.0 | 31.1 | 2.4 | 66.3 | Cond | 0.8 | 9.7 | 41 | 0 | Sd fg sshy | vft | ft |
| 43 | 1.3 | 6605.0 | 1.7 | 17.5 | 0.0 | 63.1 | (6) | 0.0 | 6.5 | 71 | 4 | Sd vfg vshy vfoss | spts min | no |



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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44 | 1.2 | 6612.0 | 4.9 | 18.7 | 3.9 | 68.4 | (6) | 0.7 | 5.2 | 70 | 10 | Sd vfg shy–vshy calc | spts min | no |
| 45 | 0.8 | 6614.0 | 260.0 | 30.0 | 9.0 | 62.9 | Oil | 2.7 | 8.4 | 44 | 8 | Sd fg sshy slty foss | mott ft | ft |
| 46 | 0.6 | 7334.0 | 375.0 | 36.5 | 20.9 | 60.7 | Oil | 7.6 | 6.7 | 46 | 19 | Sd vfg sshy slty | gld | gd |
| 47 | 0.6 | 7335.0 | 720.0 | 35.6 | 10.1 | 71.3 | Oil | 3.6 | 6.6 | 41 | 2 | Sd fg sshy | gld | gd |
| 48 | 0.9 | 7336.0 | 640.0 | 33.1 | 11.9 | 64.3 | Oil | 3.9 | 7.9 | 41 | 28 | Sd fg sshy slty calc | gld | gd |
| | | 7338.0 | | | | | | | | | | Empty bottle | | |
| | 1.5 | 7407.0 | | | | | | | | | 0 | Shale calc | | |



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# DESCRIPTION CODE KEY AND ABBREVIATIONS

### LITHOLOGY

| | |
|---|---|
| Anhy | Anhydrite |
| Cgl | Conglomerate |
| Dol | Dolomite |
| Glauc | Glauconite |
| H | Halite |
| Lig | Lignite |
| Ls | Limestone |
| Pyr | Pyrite |
| Sd | Sandstone |
| Sh | Shale |
| Slt | Siltstone |
| Sf | Shell fragments |

### GRAIN SIZE

| | |
|---|---|
| vfg | very fine grain |
| fg | fine grain |
| mg | medium grain |
| cg | coarse grain |

### FLUORESCENCE

| | |
|---|---|
| ev | even |
| stk | streaks(ed) |
| spt | spots(ed) |
| mott | mottled |

### COLOR

| | |
|---|---|
| b | blue |
| bz | bronze |
| gld | gold |
| w | white |
| y | yellow |

### OTHER

| | |
|---|---|
| calc | calcareous |
| cln | clean |
| carb | carbonaceous |
| cem | cementation |
| con | consolidated(ion) |
| dns | dense |
| flu | fluorscence |
| foss | fossiliferous |
| frc | fracture(s,ed) |
| fl | flushed |

### INTENSITY

| | |
|---|---|
| bt | bright |
| ft | faint |
| dl | dull |

### MODIFERS

| | |
|---|---|
| u | unconsolidated |
| vs | very slightly |
| s | slightly |
| m | moderately |
| mw | moderatly well |
| v | very |
| w | well |
| ha | high angle |
| hd | hard |
| lam | laminated(ion) |
| mic | micaceous |
| ms | mudshot |
| shy | shaley |
| slty | silty |
| tr | trace |
| vug | vuggy |
| vt | vertical |

### PRODUCTION CODES

| | |
|---|---|
| Gas | gas |
| Oil | oil |
| Cond | condensate |
| Wtr | water |
| (1) | altered core |
| (2) | exposed core |
| (3) | insufficient samples |
| (4) | contaminated by drilling fluid |
| (5) | |
| (6) | low permeability |

### OTHER ABBREVIATIONS

| | |
|---|---|
| Por | porosity, % |
| Gb | gas saturation, % bulk volume |
| Ob | oil saturation, % bulk volume |
| Sco | core oil saturation, % pore volume |
| Stw | total water saturation, % pore volume |
| Sciw | Critical water saturation, % pore volume |
| Vsh | volume of shale, % bulk volume |
| Cs | surface area, ($m^2$/cc) |
| Mean | mean grain size, microns ($\mu$) |

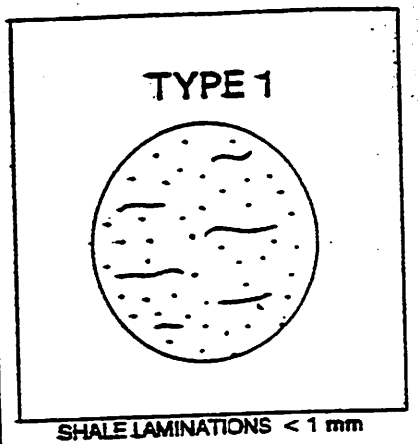
### FOOTNOTES

* permeability values determined empirically

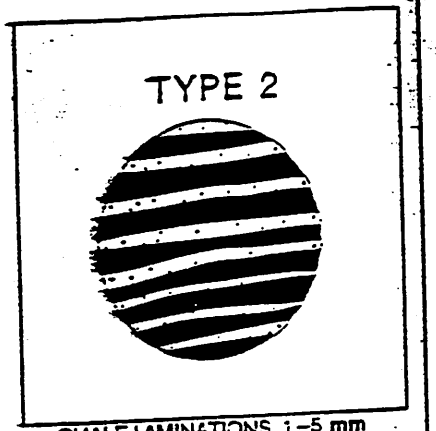
** Sciw values after Granberry, R. J. and Keelan, D.K., 1977

*** samples interpreted without knowledge of depth or intervals

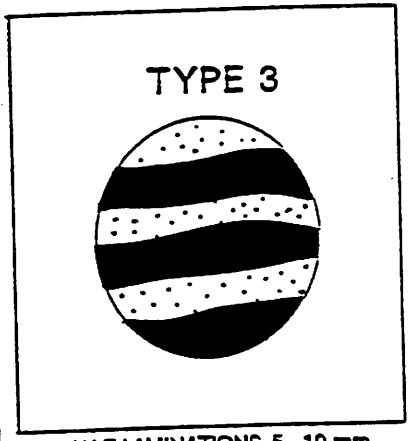
# INTERLAM SM THIN BED SAMPLE DESCRIPTION



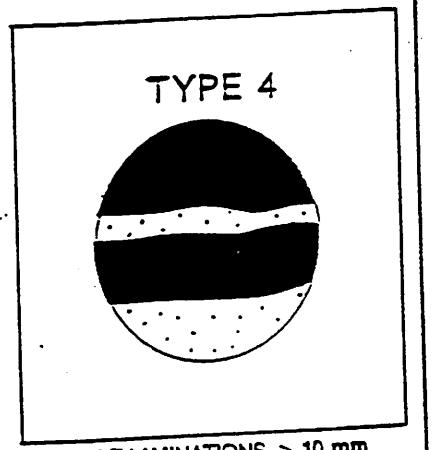

SHALE LAMINATIONS < 1 mm




SHALE LAMINATIONS 1–5 mm




SHALE LAMINATIONS 5–10 mm




SHALE LAMINATIONS > 10 mm

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