### Weatherford

#### MULTI-MINERAL WELL EVALUATION LOG

**PRELIMINARY**

<table>
<thead>
<tr>
<th>Company</th>
<th>VESS OIL CORP.</th>
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</thead>
<tbody>
<tr>
<td>Well</td>
<td>MCCORD 'A' 20H</td>
</tr>
<tr>
<td>Field</td>
<td>BEMIS SHUTTS</td>
</tr>
<tr>
<td>County</td>
<td>ELLIS</td>
</tr>
<tr>
<td>Location</td>
<td>1680' FNL &amp; 788' FEL</td>
</tr>
<tr>
<td>State</td>
<td>KANSAS</td>
</tr>
<tr>
<td>Country</td>
<td>USA</td>
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<table>
<thead>
<tr>
<th>Section</th>
<th>26</th>
<th>Township</th>
<th>11S</th>
<th>Range</th>
<th>17W</th>
<th>API Num</th>
<th>1505126218010</th>
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<tbody>
<tr>
<td>Permanent Datum</td>
<td>GL</td>
<td>Elevation</td>
<td>2091.00</td>
<td>K.B.</td>
<td>2100.00</td>
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<tr>
<td>Log Measured From</td>
<td>KB</td>
<td>9.6</td>
<td>Above Perm Datum</td>
<td>D.F.</td>
<td>2099.00</td>
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<tr>
<td>Drilling Meas From</td>
<td>KB</td>
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<td></td>
<td>G.L.</td>
<td>2091.00</td>
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<table>
<thead>
<tr>
<th>Run</th>
<th>Run</th>
<th>Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Run</td>
<td>Run</td>
</tr>
<tr>
<td>Depth - Driller</td>
<td>5805.00</td>
<td>5805.00</td>
</tr>
<tr>
<td>Depth - Logger</td>
<td>5805.00</td>
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<tr>
<td>Btm Log Interval</td>
<td>5780.00</td>
<td>5780.00</td>
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<tr>
<td>Top Log Interval</td>
<td>3740.00</td>
<td>3740.00</td>
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<tr>
<td>Casing - Driller</td>
<td>3740.00</td>
<td>3740.00</td>
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<tr>
<td>Casing - Logger</td>
<td>3740.00</td>
<td>3740.00</td>
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<tr>
<td>Btsize</td>
<td>6.125</td>
<td>6.125</td>
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<tr>
<td>Type Fluid in Hole</td>
<td>CHEM</td>
<td>CHEM</td>
</tr>
<tr>
<td>Dens. /Visc.</td>
<td>9.20 / 63.00</td>
<td>9.20 / 63.00</td>
</tr>
<tr>
<td>pH / Fluid Loss</td>
<td>10.50 / 6.80</td>
<td>10.50 / 6.80</td>
</tr>
<tr>
<td>Source of Sample</td>
<td>FLOWLINE</td>
<td>FLOWLINE</td>
</tr>
<tr>
<td>Rm @ Meas. Temp</td>
<td>0.80 @ 55.0</td>
<td>0.80 @ 55.0</td>
</tr>
<tr>
<td>Rmf @ Meas. Temp</td>
<td>0.64 @ 55.0</td>
<td>0.64 @ 55.0</td>
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<tr>
<td>Rmc @ Meas. Temp</td>
<td>0.98 @ 55.0</td>
<td>0.98 @ 55.0</td>
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<tr>
<td>Source: Rmf / Rmc</td>
<td>CALC / CALC</td>
<td>CALC / CALC</td>
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<tr>
<td>Rm @ BHT</td>
<td>0.41 @ 105.0</td>
<td>0.41 @ 105.0</td>
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<tr>
<td>Max. Rec. Temp.</td>
<td>105.0</td>
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**PLOT TYPE:** OPEN HOLE "MULTI-MINERAL" *WELL EVALUATION LOG*

**REMARKS:**

- **Project:** 3534253
- **API Number:** 15-051-26218
- **Company:** VESS OIL CORPORATION
- **Well:** MCCORD 'A' 20H
- **Field:** BEMIS SHUTTS
- **County:** ELLIS
Open Hole data recorded by Weatherford Compact Tools.
Porosity data computed from (OH) NFRL/DPR, Neutron=LS; RH0ma=2.71, RH0fl=1.0.
Matrix model = Dolomite/Limestone/Sandstone/Chert/Shale.
Vsh computed from GRE (Envir. Corr.;Linear) and Neutron (Linear).)
Sw (OH) model = Simandoux.
Rw values provided by customer.
Log data affected by hole washouts.
Bad Hole and Data Quality Flag activated in depth track.

Production model: OIL/WATER.

Reported THF: N/A
Reported Hole Deviation: N/A
Reported Borehole Chlorides: N/A mg/L
Reported Formation Chlorides: 32000 mg/L
Reported Production: N/A, NEW WELL

"Hydrocarbon Pay Flag"

\[ PHIE > .03 \]
\[ Sw < .55 \]
\[ Vsh < .35 \]

******************************************************************************
CURVE DESCRIPTIONS:

CURVE LEGEND:

VSH = Shale Volume
MIN12 = Sandstone Volume
MIN23 = Limestone Volume
MIN34 = Dolomite Volume
MIN78 = Chert Volume
GRGM = Gamma Ray, from (OH) data
CLDC = Density Caliper
CLDEL = Differential Caliper
R2OF = Array Ind. One Res 20
R4OF = Array Ind. One Res 40
R6OF = Array Ind. One Res 60
R85F = Array ind. One Res 85
RTAF = Array Ind. One Res Rt
NFRL = Neutron Porosity (Matrix=LS, HS Corrected)
DPR = Density Porosity (Rhoma=2.71)
DCOR = Density Correction
PFDE = PE
PAYOH = Hydrocarbon Pay Flag, Open Hole Evaluation
SWOH = Water Saturation, computed from (OH) data
PHIE = Effective Porosity, computed from (FND-S) data
BVWR = Bulk Volume Residual Water, computed from (OH) data
BVWOH = Bulk Volume Water, from (OH) data

******************************************************************************
PARAMETERS:

** Shale Volume **

<table>
<thead>
<tr>
<th>Zone Top-Zone Bot</th>
<th>Grcl</th>
<th>Grsh</th>
<th>Sigcl</th>
<th>Sigsh</th>
<th>Neutcl</th>
<th>Neutsh</th>
<th>Rhobsh</th>
<th>SSP</th>
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<tbody>
<tr>
<td>3740.0 - 4314.5</td>
<td>10.0</td>
<td>80.0</td>
<td>6.5</td>
<td>32.0</td>
<td>2.55</td>
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<tr>
<td>4315.0 - 4527.5</td>
<td>15.0</td>
<td>70.0</td>
<td>9.0</td>
<td>32.0</td>
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<tr>
<td>4528.0 - 4589.5</td>
<td>18.0</td>
<td>115.0</td>
<td>16.0</td>
<td>35.0</td>
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<tr>
<td>4589.0 - 5057.5</td>
<td>7.0</td>
<td>75.0</td>
<td>9.2</td>
<td>38.0</td>
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<td>5058.0 - 5694.0</td>
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<td>10.0</td>
<td>38.0</td>
<td>2.60</td>
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</tbody>
</table>
** Open Hole Water Saturation **

Zone Top- Zone Bot  Rw @Temp Rmf@Temp a m n Rsh PhiSh PhiMn PhiMx
3740.0 - 4314.5  '1.008104F .640855 F VAR VAR VAR 10.0 32.0 2.0  VAR
4315.0 - 4527.5  '0.900104F .640855 F VAR VAR VAR 8.0 32.0 2.0  VAR
4528.0 - 4588.5  '0.900104F .640855 F VAR VAR VAR 5.0 35.0 2.0  VAR
4589.0 - 5057.5  '0.900104F .640855 F VAR VAR VAR 4.5 38.0 2.0  VAR
5058.0 - 5694.0  '0.900104F .640855 F VAR VAR VAR 8.0 38.0 2.0  VAR

*****************************************************************************

BOREHOLE ENVIRONMENT:

BOREHOLE RECORD:

Bit Size  Top - Bottom
6.125"   3740.00 - 5805.00'

CASING RECORD:

Size  Top - Bottom
7.00 Surface - 3740.00'

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PETROPHYSICAL REPORTS:

WELL#0001  Weatherford International, Inc. - PETROPHYSICAL EVALUATION REPORT

COMPANY - VESS OIL CORP.  COUNTY - ELLIS
WELL - MCCORD 'A' 20H  STATE -
FIELD - BEMIS SHUTTS  COUNTRY - USA / KANSAS

FORMATION | CUM ZONE DEPTHS | TOTAL PHI | Sw | BVW | TOTAL PHI | Sw | BVW | TOTAL PHI |
NAMES      | TOP  BOTTOM     | h Avg  | Avg | Avg | h Avg  | Avg | Avg | h Avg |

| >>>>>CUTOFFS<<<< | Sw .LE. 40.0% | VSH .LE. 35.0% |
| >>>>>>>>----------> | S PHI CUTOFF = 6.0% | PHI CUTOFF = 7.0% | PHI CUTOFF = 8.0% |

ZONE (3740-4315) | 3740.0 4314.5 | 4.5 20.6 1 .002 | 4.0 22.4 1 .002 | 4.0 22.4 1 .002 |

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ANALYST: S. Saksena
PROGRAM: APP v.2.52

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ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES, OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET OUT IN OUR CURRENT PRICE SCHEDULE.

WEATHERFORD INTERNATIONAL, LTD.

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<th>SPTH</th>
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<th>CLDEL</th>
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<th>PAYOH</th>
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<th>PHIE</th>
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**Legend:**
- **GRGM:** Gamma Ray
- **MTU:** Magnetic Total
- **R20F:** Resitivity 20
- **D00:** Density 0.2
- **NPRL:** Nuclear Polarization
- **DEC:** Decibels
- **HN:** Hedonic Number
- **MIN12:** Minimum 12
- **SHALE:** Shale
- **R40F:** Resistivity 40
- **DPRL:** Differential Polarization
- **MIN23:** Minimum 23
- **R60F:** Resistivity 60
- **PDPE:** Porosity Density PE
- **MIN34:** Minimum 34
- **RTAF:** Resistivity Total Aforementioned
- **G/C3:** Gamma/Compressional
- **MIN45:** Minimum 45
- **DCOR:** Dc Polarization
- **MIN56:** Minimum 56
- **R200:** Resistivity 200
- **MIN67:** Minimum 67
- **D0:** Density 0.2
- **MIN78:** Minimum 78
- **D00:** Density 0.2
- **PHIE:** Phi
- **BVWR:** Build Up With Respect