### Lisburne Group

**UWI**: 50-301-20001

**Date Plotted**: 9/10/01

| Depth (ft) | Resistivity
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**Gamma Ray (GR)**: 0-200 GAPI

**Spontaneous Potential (SP)**: -200 to 0 mV

**Neutron (NPHI)**: 60-15%

**Bulk Density (RHOB)**: 1.65-2.9 g/cc

**TOC**: 10-0%

**Permeability**: 1000-0.1 mD

**Permeability**: 0-5 mD

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**Notes**:

- Lithology:
  - Sandstone
  - Claystone

- Quality:
  - Good to Excellent

- Gamma ray response:
  - Moderate to high gamma ray activity

- Resistivity:
  - High resistivity values indicate low porosity and poor permeability

- Neutron porosity:
  - Low neutron porosity values indicate low fluid content

- Bulk density:
  - High bulk density values indicate high mineral content

- TOC:
  - High TOC values indicate organic-rich sediments

- Permeability:
  - Low permeability values indicate poor reservoir quality

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**Core Data**:

- Core length: 2.5 meters
- Core type: Lithic sandstone
- Core description: Clean, well-sorted, fine-grained sandstone with minor silt and clay

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**Summary**:

- The Lisburne Group at this interval shows moderate to high gamma ray activity, indicating a potential reservoir section.

- High resistivity values suggest low porosity and poor permeability in the interval.

- Low neutron porosity values indicate limited fluid content, which is typical for a reservoir section.

- High bulk density values suggest a high mineral content, consistent with sandstone lithology.

- TOC values are low, indicating minimal organic content.

- Permeability values are low, indicating poor reservoir quality.

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**Recommendations**:

- Future drilling should be targeted to deeper intervals with higher gamma ray activity and lower resistivity to improve reservoir quality.

- Further analysis of core data is recommended to better understand the reservoir potential.

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**Conclusion**:

- The Lisburne Group at this interval has potential for hydrocarbon accumulation, but further investigation is needed to confirm reservoir quality and fluid content.