LYONS EAST STRIP 1.DS

Northern Territory

Petroleum Well Log

Mud Log

Well Name: Lyons East 1 Rig: Ensign 707
Location: Lyons East Prospect, Bonaparte Basin, NT Spud: 04-Nov-2018
Licence Number: EP 187 Drilling Completed: 30-Nov-2018
Surface Coordinates: 13°50'31.1" S 129°30'31.2" E
Surface Coordinates (MGA94): 9469000.00 mN 671000.00 mE

Ground Level Elevation: 0.0 m Total Depth: 3,000.0 m
Logged Interval: 50 m To: 3,000 m Total Depth (TD): 3,000
Kelly Bushing Elevation: 0.0 m Final Drill Rig: 0.0 m
Logged and Interpreted by: Thomas Hawkins

Gas in Mud (%) Lithology Flow Chart
Connection Gas Oil Show
Trip Gas Coal
Background Gas Sandstone
Chromatograph (ppm) Siltstone
Claystone
Limestone
Dolomite
Interbedded Lithology
Tuff
Marl
Anhydrite
Salt
Chert
Pyrite
Fossil
Carbonaceous Material
Cavings
Fluorescence
Visual Cut
Cut Fluorescence
Direct Fluorescence
Residual Oil Cut
Residual Oil Fluorescence
Sample Quality
Poor
Fair
Good
Excellent

Comments
Interpreted Picks: BLK1 and T1 Seal
Interpreted Picks: T2 Seal, T3 Seal, and T4 Seal
Interpreted Picks: T5 Seal, T6 Seal, and T7 Seal
Interpreted Picks: T8 Seal, and T9 Seal
Plugged and Abandoned: 30/11/2018

Gas Ratios
Wetness Ratio
Balance Ratio
Gas Character Plot
Pixler Plot
Gas Data Table
Total Gas (%)
C1 (ppm)
C2 (ppm)
C3 (ppm)
iC4 (ppm)
nC4 (ppm)
iC5 (ppm)
nC5 (ppm)

Drilling Info
Bit Run
Bit Size
Bit Type
Bit Manufacturer
Bit Serial Number
Bit Nozzles
Bit Hours
Bit Depth In
Bit Depth Out
Bit Meterage
Bit ROP
Mud Type
Mud Weight
Mud Viscosity
Mud Chlorides
Mud Resistivity
Mud Filtrate
Mud Cake
Mud Temperature
Mud Flow Rate
Mud Pump Pressure
Rotary Speed
Weight on Bit
Torque
Drilling Parameter
Hookload
Standpipe Pressure
Surface Torque
Rotary Speed
Weight on Bit
Rate of Penetration
Mud Flow In
Mud Weight In
Mud Temperature In
Mud Viscosity In
Mud Resistivity In
Gamma Ray
Caliper
Neutron Porosity
Density
Photoelectric Factor
Resistivity Deep
Resistivity Medium
Resistivity Shallow
Resistivity Micro
Sonic
Delta T
Gamma Ray
Caliper
Neutron Porosity
Density
Photoelectric Factor
Resistivity Deep
Resistivity Medium
Resistivity Shallow
Resistivity Micro
Sonic
Delta T

Lithology Log
Geological Description
Gas Data Table
Total Gas (%)
C1 (ppm)
C2 (ppm)
C3 (ppm)
iC4 (ppm)
nC4 (ppm)
iC5 (ppm)
nC5 (ppm)

Geological Description

Claystone: Predominate lithology of the interval.

Visual Cut: No Visible Cut
Cut Fluorescence: No Cut
Direct Fluorescence: No Direct Fluorescence
Residual Oil Cut: No Residual Oil Cut
Residual Oil Fluorescence: No Residual Oil Fluorescence

Trace of very fine grey, firm, blocky to sub-blocky claystone.

As above with trace of sub-rounded, very fine, clear quartz grains.

As above with trace of very fine, light grey, firm, blocky to sub-blocky claystone