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New Exploration Play in Basal Burgan 'Unnamed Clastics' Kuwait

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SUMMARY

Unnamed clastics at the base of Burgan offer a hitherto un-explored hydrocarbon play in onshore Kuwait. It is a sub-unconformity play and comprise a composite sequence with three systems tracts upwards, namely; transgressive, highstand and followed by another transgressive package. Thickness of whole package varies between 10 and 145 (generally between 37 to 60 , net pay 40). Sand bodies in the transgressive system tracts are discontinuous laterally and vertically and that of the highstand system tracts are fairly continuous sheets and shale-out in the distal settings. Thin channel sand bodies of lower transgressive and highstand units entrap oil whenever upper transgressive unit provides effective top seal. The effectiveness of the top seal depends on the vertical limits of incision by overlying lowstand Burgan clastics. The trapping is controlled by both stratigraphic and structural components.

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In most of the wells targeting Lower Cretaceous or deeper, casings are generally set within this unit, often proper logs are not run across the section. However, some of the wells have partial suit of logs and well cutting. The resource remained largely unaccounted and unexplored. The play has been identified in Ratqa, Mutriba, Medina and Raudhatain areas. A case study is presented from the Raudhatain area.