TEMPORARY WELLBORE ABANDONMENT CERTIFICATION
TWO INDEPENDENT BARRIERS

Well Name	Davy Jones #1 South Marsh Island Block 230 #1 ST01 OCS-G-26013
Program Description	Temporary Abandonment of Wellbore
Program Revision Number / Date	MMR-U210-001 Rev F / 28 July 2014
Well Examiner	Shaikh Moshiur Rahman

The planned temporary wellbore abandonment of Davy Jones #1, South Marsh Island Block 230 #1 ST01 meets the requirement of Title 30 CFR §250.1721 (h) and CFR §250.1715. There will be at least two independent barriers, including one mechanical barrier across each flow path during abandonment activities and the plugs meet the requirement of the table in CFR §250.1715. Note that CFR §250.1715 (a) (3) (iii) is met with the cement plug specified by CFR §250.1715 (a) (3) (C) where the bottom of the cement plug is planned to be at no more than 100 feet above the perforated interval.

Should there be any deviations from the planned temporary well abandonment procedure or stated purpose the Examiner must be contacted to check the potential implications.

This revision is due to revised temporary abandonment procedure which includes a cast-iron bridge plug set at 1000 ft and revised BOP stack-ups.

Requirements	Documents Reviewed	Deemed Appropriate
Title 30: Mineral Resources Part §250.1715 and §250.1721(h)	• Item 1 2014 07 24 DJI APM TA Summary Procedure.pdf • Item 2 DJ 1 Wellbore Schematics As Is and Proposed 2014 07 24.pdf	Yes

Signed:	Shaikh Moshiur Rahman
Date: 28 July 2014	

Expire 30 September 2014

QUALIFICATIONS OF SHAIKH MOSHIUR RAHMAN

General

Shaikh has 13 years' experience as Technology Development and Well Design Engineer developing technical solutions for high-end engineering problems including algorithms, specifications, and simulation program for implementation of solution. His major areas of expertise include design and development of critical wells especially HTHP and sour wells; casing, tubing, drillpipes and marine and production riser design; multiphase flow modeling for underbalanced and critical wells as well as for pipelines; probabilistic tubular design; pipeline assessment for cracks and dents; development of application and simulation programs for implementing the developed solutions; writing technical research papers of existing and new engineering problems.

He is a registered Professional Engineer in the State of Texas, a member of SPE and ASME

Education

MS degree in Mechanical Engineering – 1999 – North Dakota State University, Fargo, North Dakota, USA

BS degree in Mechanical Engineering – 1996 – Bangladesh University of Engineering & Technology, Dhaka, Bangladesh

MS Thesis – Griffith Crack In an Orthotropic Material with Body Forces Under Static Loading

BS Thesis – Influence of Different Parameters on Briquetting Peat

Publications:

- Shaikh Rahman, Ming Gao, Ravi Krishnamurthy; "API 579 G-factors for K Calculations and Improvements For Assessment of Crack-like Flaws in Pipelines", 13th International Conference on Fracture, June 16-21, 2013, Beijing, China.
- P. D. Pattillo, U. B. Sathuvalli, S. M. Rahman, H. H. Prewett, S. P. Carmichael and R. Wydrinski; "Mad Dog Slot W1 Tubing Deformation Failure Analysis"; SPE 109882-MS; SPE Annual Technical Conference and Exhibition, 11-14 November 2007, Anaheim, California, U.S.A.
- Sathuvalli, U.B., Payne, M.L., Pattillo, P.D., Rahman, S., Suryanarayana, P.V.: "Development of a Software Screening Tool to Identify Deepwater Wells at Risk for Annular Pressure Build-up," SPE/IADC 92594; presented at the SPE/IADC Drilling Conference, Amsterdam, Netherlands, February 23-25, 2005.
- Biswas, D., SPE, Blade Energy Partners, Suryanarayana, P.V., SPE, Blade Energy Partners; Frink, P.J., SPE, Blade Energy Partners; Rahman, S., SPE Blade Energy Partners: "An Improved Model to Predict Reservoir Characteristics During Underbalanced Drilling," paper SPE 84176 presented at the SPE Annual Technical Conference and Exhibition in Denver, Colorado, 5–8 October 2003.
- P.V. Suryanarayana, SPE, Blade Energy Partners, S. Rahman, Blade Energy Partners, R.Natarajan, SMU, R. Riley, BP: "Development of a probabilistic model to estimate productivity improvement due to Underbalanced drilling", paper SPE 81639 presented at the IADC/SPE Underbalanced Technology Conference and Exhibition held in Houston, Texas, 25–26 March 2003.
- Ian Davidson, SEPTAR, Dave Elliot, SEPTAR, P.V. Suryanarayana, Blade Energy Partners, Shaikh Rahman, Blade Energy Partners: "Tight Gas Field Exploitation Using Underbalanced Drilling – Options, Risks and Rewards," presented at the 2002 Tight Gas Workshop, The Netherlands.

Employment

2011 Present	Chief Developer and Sr. Well Design Engineer – Blade Energy Partners
2006 - 2011	Sr. Well Design Engineer – Blade Energy Partners
2001 – 2006	Technology Development Engineer – Blade Energy Partners
2000 - 2001	Partial completion of MS in Computer Science – Florida Atlantic University, Boca Raton, Florida, USA
1997 - 2000	Research Assistant in Mechanical Engineering Department – North Dakota State University, Fargo, North Dakota, USA