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**St. James Energy Operating Inc.
Larson Farms 2-24 Drilling Report
SHL: 1452' FNL & 1906' FEL SW NE
BHL: 1952' FNL & 618' FEL SE NE
SEC24 T6N R64W**

09-18-11

Move Cade Rig #22 from Larson Farms 5 well pad to the 2 well pad. Rig up and spud about 5:30 pm. **KB 14'**

09-19-11

State required surface depth was 750'. 18 Jt surface casing tally was 760' + 14' KB + 10' rat hole = Drilled TD of 785'.

Surface Casing Report: Surface Casing part of Turn Key. Cade ran 18 Jts of 8 5/8" 24# ST&C casing with a Guide shoe on bottom and 3 Centralizers. No Basket. Shoe Landed at 760' from Ground Level.

Surface Casing Cement Report: Cementers Well Service. Pre Flush with 20 bbls of water. Pump 550 sacks of cement, Slurry Volume 1.18 cu ft per sack and 14.8-15.0 PPG. Total Slurry Volume 115.5 bbls. Displace with 46.6 bbls of water. Circulate 5 bbls of cement. Cement to surface.

09-21-11

9:45 PM Reached Drilled TD of 7168'.

09-22-11

Logged: **Parkman: 3592'-4008'** **Sussex: 4390'-4607'**

Shannon: 5060'-5239' **Niobrara: 6709'** **Ft Hayes: 6971'**

Codell: 6994' **Logged TD: 7164**

Rig up Kimzy Casing.

Put thread lock on Shoe Joint and Float Shoe on bottom with 1 Centralizer. Put Latch Down Baffle in top of shoe joint and thread lock on next joint and 1 Centralizer.

Casing Report: Ran 167 Joints of 4 ½" 11.6# N80 LT&C Casing from Rusty Gold. Shoe Landed at 7157'. Includes 1.58' Shoe, 14.43' Shoe Jt, 14.47' Marker, 15.75' Marker and 14' KB. Ran 17 Centralizers every other joint off bottom, 31 HD Centralizers from 5349'-2720' and 1 Basket.

Ran 1st Marker After Joint 6 at 6895', 99 Above top of Codell.

Ran 2nd Marker After Joint 14 at 6555', 155' Above top of Niobrara.

Ran Basket on top of Joint 86 at 3528', 60' Above top of Parkman.

PBTD: 7141' 147' Below top of Codell.

Cement Report: BJ Services pumped 20 bbls of Clay Care Water, 20 bbls of Mud Clean, 20 bbls of Surfactant Wash and 20 bbls of Clay Care Water.

Lead Cement: Batch up and Pump 855 Sacks of Lead Cement, Slurry at 12.5 PPG: 35/65 Poz/C + .25% R-3 + .4% FL-52 + 3% Bentonite. (1.89 Yield). Cement covers from 500' Above top on the Niobrara at 6200' to Surface including 300' into Surface Casing with 5% Excess. No Cement to surface. Rig ran out of fresh water and we had to Displace the plug with Produced Water from drilling.

Tail Cement: Mix and Pump 145 Sacks of Tail Cement, Slurry at 13.5 PPG and 1.71 Yield: 50/50 Poz/G + .4% FL-52 + 3% Bentonite + .1% SMS + 20% Silica Flour. Cement covers from Shoe at 7157' to 500' Above Niobrara at 6200' with 10% Excess. Displace with 112 bbls of Clay Care Water and bump plug with 2754 psi. Plug Down at 21:46.

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