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**St. James Energy Operating Inc.**  
**Larson Farms 3-24                      Drilling Report**  
**SHL: 2226' FSL & 2452' FWL NE SW**  
**BHL: 1951' FSL & 1985' FEL SE SW**  
**SEC 24 T6N R64W**

**09-08-11**

Skid Cade Rig # 22 from Larson Farms 5-24.    14' KB.

**09-09-11**

Drill Surface Casing. State required surface depth was 750'. 18 jt surface casing tally was 757.24' + 10' Rat Hole + 14' KB = 781.24' = Drilled TD of 782'.

**Surface Casing Report:** Surface casing part of turnkey. 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 757' from Ground Level.

**Surface Casing Cement Report:** Cementers Well Service. Pre Flush with 30 bbls of H2O. Pump 540 sacks of Cement, Slurry Volume 1.18 cu ft per sack and 15.2 PPG. Total Slurry Volume was 113.4 BBLS of Cement. Displace with 46.3 BBLS of H2O. Circulate 5 BBLS of Cement. Plug Down 18:45. Cement to surface.

**09-12-11**

8:55 AM Reached Drilled TD of 7058'.

5:00 PM Out of hole with drill pipe. Rig up PSI.

5:30 PM Start down hole and can't get past 2824'. Work it for about 30 min and made 5' and called it at 2829' and came out of the hole. NO LOGGS.  
Rig up Kimzy Casing.

**Geologist called:**            Niobrara at 6580',            Ft. Hayes at 6865',            Codell at 6889',

**Drilled TD 7058'.**

Put Thread Lock on Shoe Joint and Float Shoe on bottom with 1 Centralizer. Put Latch down in top of shoe joint and thread lock on next joint and 1 more Centralizer.

**Casing Report:** Ran 159 Joints of 4 1/2" 11.6# N80 Casing from Rusty Gold. Shoe Landed @ 7048'. Includes 1.58' Float Shoe, 14.58' Shoe Joint, 14.69' Marker, 14.90'

**Marker and 14' KB. Ran 17 Centralizers every other jt off bottom, 31 HD Centralizers from 5105'-2239' and 1 Basket.**

**Ran 1<sup>st</sup> Marker after jt 6 at 6768', 121' Above top of Codell.**

**Ran 2<sup>nd</sup> Marker After jt 14 at 6390', 190' Above top of Niobrara.**

**Ran Basket on top of jt 78 at 3577', 68' Above top of Parkman.**

**Plug Back TD: 7032' 143' 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 Weigh And Pump 840 sacks of PLC + 0.25% R-3 + 0.4% FL-52 + 3% Bentonite @ 12.5 PPG with a 1.89 Yield. Cement covers from 500' above top of Niobrara at 6080' to Surface. No Logs on this well. Capacity based on previous well and figure off a perfect hole of 4 1/2" casing in 8" hole. No cement to surface. BJ estimated that we got about 300' up into the surface casing.**

**Tail Cement: Weight and Pump 145 sacks of (50:50) Poz: G + 0.4% FL-52 + 3% Bentonite + 0.1% Sodium Metasilicate + 20% Silica Flower at 13.5# PPG with a 1.71 Yield. Cement Covers from Shoe @ 7048' to 500' above top of Niobrara @ 6080'. Displace with 109 bbls of Clay Care water and bump plug @ 2555 psi. Plug Down @ 04:06.**

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