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**St. James Energy Operating Inc.  
Larson Farms 4-24                      Drilling Report  
SHL: 2235' FSL & 2470' FWL NE SW  
BHL: 1987' FSL & 648' FEL NE SE  
SEC24 T6N R64W**

**09-13-11**

Skid Cade Rig # 22 from Larson Farms 5-24. Drill Surface Casing. **KB 14'.**

**09-13-11**

State required surface depth was 750'. 18 jt Surface Casing total was 759.19' + 14' KB + 10' Rat Hole = 783.14. Drilled TD was 784'.

**09-14-11**

**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 the bottom and 3 Centralizers. No Basket. Shoe Landed @ 759' 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 113.4 bbls of cement. Displace with 46.4 bbls of H2O. Circulate 4 bbls of cement. Plug Down 02:30. Cement to surface.

**09-17-11**

3:45 AM Reached Drilled TD of 7491'. Circulate 30 min, make short trip above Niobrara and circulate on bottom 1 ½ hrs. Lay down drill pipe.

12:15 PM Out of the hole. Rig up PSI. 1:15 PM reached Logged TD of 7481'.

**Logged:**

**Parkman: 3800'-4330'**

**Sussex: 4588'-4990'**

**Shannon: 5370'-5583'**

**Niobrara: 7033'**

**Ft Hayes: 7290'**

**Codell: 7314'**

**TD: 7481'**

2:45 PM 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 bottom of next joint and 1 more Centralizer.

**Casing Report:** Ran 170 jts of 4 ½" 11.6 # N 80 Casing from Rusty Gold. Shoe Landed at 7489'. Includes 1.58' Float Shoe, 14.67' Shoe Jt, 14.80' Marker Jt, 14.98' Marker Jt and 14' KB. Ran 17 Centralizers every other joint off bottom, 31 HD Centralizers from 5704'-2995' and 1 Basket.

Ran 1 st Marker after Jt 6 at 7219', 95' Above Top of Codell.

Ran 2<sup>nd</sup> Marker after Jt 14 at 6863', 170' Above Top of Niobrara.

Ran Basket on top of Jt 86 at 3774', 26' Above Top of Parkman.

Plug Back TD: 7473'

159' 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 Claycare Water.

**Lead Cement:** Batch up, weigh and pump 840 sacks of PLC + 0.4% FL-52 + 3% Bentonite + 0.25% R-3 @ 12.5 PPG and 1.89 Yield. Cement covers from 500' above top of Niobrara at 6500' to surface + 200' into surface casing + 5% excess. No cement to surface but got back Pre-Flush.

**Tail Cement:** Batch up, weigh and pump 145 sacks of 50/50 POZ/CLASS G + 0.4% FL-52 + 3% Bentonite + 0.1% SMS + 20% S-8 @ 13.5 PPG and 1.71 Yield. Cement covers from TD at 7489' to 500' above Niobrara at 6500' +10% excess. Displace with 116 bbls of Clay Care water. Bump Plug at 2863 psi. Plug Down at 23:35.

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