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St. James Energy Operating Inc.
Larson Farms 7-24 Drilling Report
SHL: 2198' FSL & 2399' FWL NE SW
BHL: 648' FSL & 1926' FEL SW SE
SEC 24 T6N R64W

08-21-11

Rig up Cade Rig # 22. **KB 14'.**

08-22-11

Rig responsible for surface casing. State required surface casing depth is 750'. 18 jt surface casing total was 758.99 + 14' KB + 10' Rat Hole = 783 Drilled TD.

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 and 3 centralizers evenly spaced. No Basket. Shoe Landed @ 759' from Ground Level.

Surface Casing Cement Report: Cementers Well Service. Preflush with 30 BBLS of H2O. Batch up and pump 540 sacks of cement with a slurry volume of 1.18 cu ft per sack and 15.2 PPG. Total Slurry Volume = 113.4 BBLS of cement, landed plug @ 300 psi. Displace with 46.4 BBLS of H2O. Circulate 3 BBLS of cement. Plug down 01:30. Cement did not come to surface so they pumped some down from the top and found out it channeled into the mouse hole. Justin with Cementers Well Service said we got it where it needed to be.

08-26-11

8:15 AM Reached Drilled TD of 7354'. Circulate: 30 min, make wiper run above Niobrara, circulate 2 hours and start laying down drill pipe.

7:45 PM Finished laying down drill pipe. Rig up PSI to run logs.

08-27-11

Logged:	Parkman: 3686'	Sussex: 4508'	Shannon: None
Tee Pee Buttes: 5980'		Niobrara: 6904'	Ft. Hayes: 7158'
Codell: 7183'		Drilled TD: 7354'	Logged TD: 7345'

Codell had 13' of 10 % or better porosity with peaks in 14% range.
Niobrara "B" Bench had up to 12% porosity and good cross-over.

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

Casing Report: Ran 161 jts of 4 ½" 11.6# N80 LT&C Casing from Rusty Gold. Shoe landed @ 7339'. Includes 1.58' Shoe, 14.65' Shoe Jt, 14.78' Marker, 19.47' Marker and 14' KB. Ran 17 Single Bow Centralizers, one on bottom of shoe jt and one on top and every other jt after that. Ran 31 Double Bow Centralizers starting on jt 44 @ 5348.70', 109' below Shannon, every other jt up to jt 104 @ 2621.80' and 1 basket.

Ran 1st Marker after jt 6 @ 7051', 132' Above Codell.

Ran 2nd Marker after jt 14 @ 6675', 229' Above Niobrara.

Ran Basket on top of jt 82 @ 3622', 64' Above Parkman.

Plug Back TD: 7322.43

139 ft Below Top of Codell

Cement Report: BJ Services pumped 20 bbls of Clay Treat Spacer, 20 bbls of Surfactant Wash, 20 bbls of Mud Clean I and 20 bbls of Clay Treat Spacer.

Lead Cement: BATCH UP, WEIGH AND PUMP 876 SX OF PLC + 0.25 lbs/sack Cello Flake + 0.4% FL-52 + 3% Bentonite @ 12.5 PPG. Cement covers from 500' above Niobrara @ 6400' to surface including 100' into surface casing with 5 % excess. No cement came to surface but BJ thought that we got within about 5 bbls of surface and into the surface casing.

Tail Cement: BATCH UP, WEIGHT AND PUMP 145 SX OF (50:50) Pox:G + 0.25 lbs/sack Cello Flake + 0.4% FL-52 + 3% Bentonite + 0.1% SMS + 20% S-8 @ 13.5 PPG. Cement covers from Shoe at 7339' to 500' above Niobrara @ 6400' with 10 % excess. Displace with 114 bbls of Clay treat H2O. Bump Plug with 2663 psi. Plug Down 9:39 AM.

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