

KENT R. MOORE

102 52nd Ave.
Greeley, Co. 80634
Home (970) 351-8877
Fax (970) 378-8623
KRMTaurus@MSN.com

St. James Energy Operating Inc.
Larson Farms 6-24 Drilling Report
SHL: 2207' FSL & 2417' FWL NE SW
BHL: 653' FSL & 659' FEL SE SE
SEC24 T6N R64W

08-27-11

Skid Cade Rig #22 on Pad Location from Larson Farms 7-24. **14' KB.**

08-28-11

State required surface depth was 750 ft. 18 jt surface casing total was 759.89' + 14' KB + 10' rat hole = Drilled TD of 783'.

Surface Casing Report: Surface casing was part of turnkey. Cade Ran 18 jts of 8 5/8" 24# ST&C casing with a Guide Shoe on the bottom and 3 centralizers evenly spaced and no basket. Shoe landed at 760' from Ground Level.

Surface Casing Cement Report: Cementers Well Service. Pre-flush with 20 bbls of H2O. Pump 550 sacks of cement, Slurry Volume 1.18 cu ft /sack and 14.8-15 PPG. Displace with 46 bbls of H2O, circulate 3 bbls of cement and bump plug with 700 psi. Plug down at 16:45. Cement to surface.

09-02-11

6:15 AM Reached Drilled TD of 7569'. Circulate :30 min, pull 30 stands of drill pipe up to 4700', trip back in and circulate on bottom for 1 ½ hr.

11:00 AM Start laying down drill pipe.

5:15PM Rig up PSI.

Logged: Parkman: 3904'-4340'

Sussex: 4776'-4938'

Shannon: 5326'-5531'

Niobrara: 7106'

Ft Hayes: 7374'

Codell: 7396'

TD: 7561'

DTD: 7569'

Density Logs not very good because we were not vertical at TD.

Put thread lock on Shoe Jt and Float shoe on bottom with a centralizer above it. Put latch down baffle in top of shoe jt and thread lock on pin of next jt also with another centralizer.

Casing Report: Ran 168 jts of 4 ½" 11.6# N80 LT&C casing from Rusty Gold. Shoe Landed at 7559'. Includes 1.58" Float Shoe, 14.52' Shoe Jt, 14.49' Marker, 14.61' Marker and 14' KB. Ran 17 Centralizers every other jt off bottom and 31 HD Centralizers every other jt from 5596'-2880'.

Ran 1st Marker after jt 6 at 7274', 122' Above top of Codell.

Ran 2nd Marker after jt 14 at 6894', 212' Above top of Niobrara.

Ran Basket on top of jt 82 at 3826', 78' Above top of Parkman.

Plug back TD: 7543'

147' Below top of Codell

Cement Report: BJ services pumped 20bbls Clay Care Spacer, 20 bbls of Mud Clean I, 20 bbls of Surfactant Wash and 20 bbls of Clay Care spacer.

Lead Cement Report: Batch up, weigh and pump 982 sacks of Premium Lite cement +0.25% R-3 +0.4% FL -52 + 3% Bentonite + 99.4% Fresh water @ 12.5 PPG. Cement covers 500' above Niobrara at 6600' to surface + 100' into surface casing with 5% excess. No cement came to surface but BJ saw a lot of the preflush and said we were within 5-6 bbls and in the surface casing.

Tail Cement Report: Batch up weigh and pump 148 sacks of :50):50: Poz (Fly Ash) : Class G Cement + .04% FL-52 + 3% Bentonite + 0.1% sodium Metasillicate + 20 % Silica Flower + 82.4% Fresh water @ 13.5 PPG. Cement covers from Shoe at 7559' to 500' above Niobrara at 6600' with 10% excess. Drop Plug and displace with 117 bbls of Clay Treat Water. Bump Plug at 2549 psi. Plug down at 04:39

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