

DRILLING REPORT

Dorothy #1 API: 15-135-25889-00-00

1800' FNL & 115' FWL Section 10-16s-22w Ness County, Kansas

Elevations: 2429 KB, 2422 GL Pick rell Drilling rig #10

September 29, 2015 Finished digging pits yesterday. Moving in drilling rig and will start drilling later today.

September 30, 2015 Drilling at 299'. Yesterday: MI & RURT. Spud @ 2:30 PM. Drld 12 ¼" surface hole to 223'KB. SHT @ 223' = 3/4°. Ran 5 jts of New 8 5/8" 24# surface casing set @ 221'KB, (tally was 211'), cmt w/150sx 60-40 poz, 2% gel, 3% CC w/1/4# FC/sx. PD @ 8:30 PM on 9-29-15. CDC. Basic Energy ticket #12624. WOC approx.. 8 hrs.

October 1, 2015 Drilling at 1625'.

October 2, 2015 Drilling at 2600'. 1/2° at 2530'.

October 3, 2015 Drilling at 3202'.

October 4, 2015 Drilling at 3722'. Displaced mud at 3250'.

October 5, 2015 Drilling at 4135'. Lost circulation at 3242' but regained it quickly while displacing.

October 6, 2015 Drilling at 4372'. Should reach "pay" sand today.

October 7, 2015 Drill stem testing at 4410'. Basal Cherokee Sandstone had drilling break and slight show of oil in the samples. Ran DST #1 4304 to 4400, weak blow, Recovered 15' mud with oil spots, SIP 556-258. Drilled 10 more feet. Had better drilling break. DST #2, 4312-4410, weak blow.(details later).

October 8, 2015 DST #1 Cherokee sands 4304-4400 15-45-30-30 Recovered 15' mud with oil spots HYD 2241-2172 FP 59-59, 59-60 SIP 115° F. DST #2 Cherokee sands 4313 to 4410 15-45-30-30 Recovered 20' mud with oil spots HYD 2273-2139 FP 57-59, 60-63 SIP 731-363 111° F. RTD 4510'. Ran E-Logs. LTD 4515'. In process of P&A as follows: 50sx @ 1850', 80sx @ 1100', 50sx @ 550', 40sx @ 250', 20sx @ 60', 30sx in RH of 60-40 poz, 4% gel w/1/4# FC/sx. Plugging permission from Ken Jehlik on 10/5/15 @ 10:30 AM.

Formation tops	Comparison to #1-10 Conrath
Anhydrite 1762 +667	+4
Base/Anh 1801 +628	+5
Heebner 3806 -1377	+9
BKC 4136 -1707	+6
Cherokee Shale 4315 -1886	+10
Mississippi 4456 -2027	-29