

Subj: **Mary #1 final drilling report**  
 Date: 9/24/2015 7:59:24 A.M. Central Daylight Time  
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Even though we ran quite a bit high to the well to the south and had a good sand section, the Cherokee sand only contained a slight sample show of oil and the drill stem test only recovered water. The elogs didn't show any other potential zones. This well will be plugged and abandoned as a dry hole. We will be starting on the #1 Dorothy on Monday.

#1Mary

API#: 15-135-25888-00-00

700'FSL&720'FWL

Section 2-16s-22w

Ness County, Kansas

ELEV: 2426'KB, 2424'DF, 2419'GL

Projected RTD: 4400'

Contractor: Pickrell Drilling Co. Inc. Rig #10

**September 9, 2015** Pits have been dug. Too wet to move rig in.

**September 10, 2015** Rained out.

**September 14, 2015** Moving in drilling rig tomorrow.

**September 15, 2015** Moving in drilling rig. Will possibly spud today.

**September 16, 2015** Drilling at 230'. Spud @ 4:00 PM yesterday. Drld 12 1/4" surface hole to 224'. SHT @ 224' = 3/4°. Ran 5 jts of New 8 5/8" 24# surface casing set @ 220' (tally was 211'), cmt w/150sx 60-50 poz, 3% CC w/1/4#CF/sx. PD @ 10:15 PM on 9-15-15. CDC. Basic Energy ticket # 12770. WOC approx. 8 hrs.

**September 17, 2015** Drilling at 1500'. 1° deviation.

**September 18, 2015** Drilling at 2405'.

**September 19, 2015** Drilling at 3060'.

**September 20, 2015** Drilling at 3650'. Displaced mud at 3403'. 3/4°.

**September 21, 2015** Drilling at 4065'.

**September 22, 2015** Circulating upper sands at 4340'.

**September 23, 2015** Logging at 4490. DST #1 Basal Cherokee sand 10-30-60-60 Recovered 993' water, 120° F, Hyd: 2189-2137 FP: 70-90,179-534 SIP 1252-1254 Will run elogs today.

**September 24, 2015** Ran E-Logs. LTD 4493'. P&A as follows: 50sx @ 1850', 80sx @ 1100', 50sx @ 270', 20sx @ 60', 30sx in RH of 60-40 poz, 4% gel w/1/4#CF/sx. Plugging orders from Ken Jehlik on 9/21/15 @ 9:00 AM. Plugging completed @ 11:00PM on 9-23-15. Basic Energy ticket #12622.

Formation tops:

Structure to comparison well #1-11 Wyman (SW/4 11)

Topeka	3545	-1119	+11
Heebner	3812	-1386	+16
Lansing	3852	-1426	+16
Fort Scott	4302	-1876	+19
Cherokee	4315	-1889	+19
Cherokee basal sand	4380	-1954	+38
Mississippi	4443	-2017	+33