

Cattleman Sand (1329-1346)

1328-1332: Sandstone, grey, fine-grained, well-rounded, good porosity, good odor, fair stain, scattered free oil, bright florescence (50%).

1332-1335: Sandstone, grey, medium-grained, sub-angular, good porosity, good odor, good free oil, bright florescence (50%)

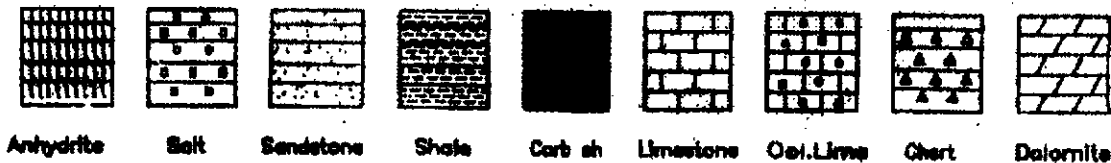
1335-1338: Sandstone, grey, medium-grained, sub-angular, good porosity, faint odor, scattered free oil, bright florescence (10%).

1338-1346: Sandstone, fine-grained, well-rounded, well cemented, no oil show

Summary

Based on significant shows in the Cattleman, the decision was made to run production casing to further examine this zone.

LEGEND



<p>DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases</p> <p>5" 10" 15" 20" 25"</p>	<p>DEPTH</p>	<p>LITHOLOGY</p>	<p>SAMPLE DESCRIPTIONS</p>	<p>OIL SHOWS</p>	<p>REMARKS</p>
	<p>600</p>				<p>5/19/14 came out from under surface at 7:30 am, Drilling</p>

Ahead

Kansas City
637 (+392)

LS: Tan, Dande

650

700

LS: Whit / S.H.: BK

Swope
728 (+251)

LS: Tan, Bn. Danka, fair xln Q,
No Stone

750

LS: Dande

BK
797 (+112)

800

S.H. Gray

1050

1100

1150

1200

1250

5/14/14
Drilled to 1254
shut down for
weight

5/15/14, Comm.
Drilling at 1257
@ 7:30am

1300

1300-01: shale: gy
1305-10: SS, gy, R, UR, low comm.
No Shale, 5' thick

1315-20 SS: AA

1320-25: SF: Gray R/A

1325-30: SH: Gray

1330-35: SS: Gy, Fy, UR, good q.
good sh, low sh, at 10, 500 ft

1335-38: SS: Gy, Fy, UR, Sub-spherical
good q, good sh, good fine sil, 300 ft

1340-42: SS: AA, but not sh, silic
Trace sil, 100 ft

1345-45: SS: Fy, UR, well rounded, broken

1345-48: SS: AA

1345-50: SS: UR w/ shale

1350-60: SH: Gray

SH: AA

AA

AA

AA

1350

1400

Cattleman
1329 (-350)

TD
1395

5/15/14
Reached Total Depth
of 1395 TOOTH,
Ran New 2 7/8" LS
Casing

Perd
1330-38

