

CONFIDENTIAL

ATTACHMENT TO ACO-1

Hall D #9 – API #15-051-26803-00-00
NW NW SE NW Sec. 2-12S-17W
3810' FSL & 3860' FEL
Ellis County, KS

Elevation: 2098' GL
2103' KB

	LOG TOPS	SAMPLE TOPS
Anhydrite	1295 +808	1290 +818
B/Anhydrite	1328 +775	-----
Topeka	3037 -934	3037 -934
Heebner	3272 -1169	3271 -1168
Toronto	3294 -1191	3294 -1191
Lansing	3318 -1215	3316 -1213
Stark	3512 -1409	3508 -1405
B/KC	3553 -1450	3550 -1447
Arbuckle (LS Cap)	3575 -1472	3575 -1472
Arbuckle (Dolo)	3584 -1481	3582 -1479
RTD	3627 -1524	3626 -1523

DST #1 3267-3420' **Zone: Toronto & LKC A-G**
Times: 30-45-60-60
1st open: Weak blow, increased to 2 ½" in 30 min
2nd open: Weak blow, increased to 4" in 60 min
Rec.: 45' of OWCM (10% oil, 15% wtr, 75% mud)
Tool Sample: OCMW (15% oil, 55% wtr, 30% mud)
Chlorides: 27,500 PPM
IHP: 1599 psi **FHP:** 1598 psi
IFP: 18-29 psi **FFP:** 36-40 psi
ISIP: 323 psi **FSIP:** 309 psi **TEMP:** 100F

DST #2 3435-3565' **Zone: LKC H-L**
Times: 30-45-60-60
1st open: Weak blow, increased to 5" in 30 min
2nd open: Weak blow, increased to 1.75" in 60 min
Rec.: 75' of SOSM (1% oil, 99% mud)
Tool Sample: SOCM (4% oil, 96% mud)
IHP: 1706 psi **FHP:** 1705 psi

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IFP: 20-45 psi
ISIP: 208 psi

FFP: 45-63 psi
FSIP: 176 psi

TEMP: 101F

DST #3 3545-3596' **Zone: LKC L - Arbuckle**
Times: 30-45-30-45
1st open: Weak blow, increased to 3/4" in 30 min
2nd open: No blow
Rec.: 1' of CO (100% oil)
 15' of OSM (3% oil, 97% mud)

Tool Sample: SOCM (5% oil, 95% mud)

IHP: 1701 psi

FHP: 1698 psi

IFP: 20-22 psi

FFP: 23-24 psi

ISIP: 378 psi

FSIP: 333 psi

TEMP: 102F

DST #4 3596-3626' **Zone: Arbuckle**
Times: 30-45-30-45
1st open: Weak blow, increased to 1.25" in 30 min
2nd open: Very weak blow, increased to 0.5" in 60 min
Rec.: 35' WM (40% wtr, 60% mud)
Tool Sample: SWCM (8% wtr, 92% mud)
Chlorides: 14,000 PPM

IHP: 1726 psi

FHP: 1693 psi

IFP: 16-22 psi

FFP: 23-32 psi

ISIP: 422 psi

FSIP: 400 psi

TEMP: 104F