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# Well Report

## ZOOK 1R-3

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**API Number:**

**Project Area:** SYCAMORE  
KS Montgomery  
31S - 14E - 3  
1354FNL - 170FEL

**AFE Number:** W846

**AFE Amount:** \$0.00

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| Activity Date | Activity Description  |
|---------------|---|
| 12/28/2010    | MIRU Thornton, drilled 11" hole 22' deep, RIH W/1 joint 8-5/8" surface casing. Mixed 4 sx type 1 cement, dumped down the backside. SDFN.  |
| 12/29/2010    | TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1287', PULLING SAMPLES AND TESTING ZONES OF INTEREST, PULL BIT OFF BOTTOM, WASHED HOLE CLEAN MI OSAGE, PULLED OPEN HOLE LOG FROM TD TO SURFACE.<br>See Driller's Log LOGGING TOOL HAD GOOD OIL SHOW WHEN FINISHED RUN.  |
| 12/30/2010    | MI RIH w/33 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION W/25 BBLs FRESH WATER, WASHED DOWN 6' PUMP 10 SKS GEL FLUSH, 5 BBLs WATER SPACER, 20 BBLs CAUSTIC SODA PRE FLUSH, 10 BBLs DYE WATER, MIXED 135 SKS THICKSET CEMENT W/8# KOL SEAL/SK 1/8# PHENO SEAL/SK 1/2% CFL-110, 1/4% CAF-38, @13.4# 1 GAL. SHUT DOWN, WASH OUT PUMP AND LINES RELEASE PLUG, DISPLACE WITH 20 BBLs FRESH WATER FINAL PUMPING PRESSURE 600 PSI. BUMP PLUG TO 1000 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD. GOOD CEMENT RETURNS TO SURFACE, 42 BBLs SLURRY, 9 BBLs TO PIT. SD MOL.<br><br>MAY HAVE A MIXTURE ON 10.5 AND 9.5 LIMITED SERVICE CASING DISPLACEMENT WAS .5 BBL OFF.<br>CSG STRING:<br>33 JOINTS 4-1/2"<br>LANDED CSG @ 1280.6'<br>PBSD - 1280.6'<br>TD 1287 |

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**1/18/2011**

MIRU Osage Wireline and Consolidated Oil Well Services. Osage RIH and ran Digital Bond Log from 1274' to surface. Good Bond entire well. Perforated Cattleman from 1180' to 1192' with 2 SPF, 180 degree phase, 25 gm charges. (25 HOLES) Consolidated spotted 100 gallons 15% HCL across Cattleman perfs. Spearheaded 300 gals additional (400 total) and dropped 40 ball sealers and balled off perfs. Transducer on Blender malfunctioned during balloff. Flowed back to clear perfs. Osage RIH with junkbasket/gauge ring and knocked off ball sealers. Consolidated fracked the Cattleman with 90 bbls PAD of 25 ppt gelled water with 2% KCL and boicide followed with 7,000 lbs 16/30 and 7,400 lbs 12/20 sand @ 0.25 to 2.5 ppg concentrations. Dropped 10 balls during frac. Flushed sand with 20 bbls gelled water. Due to malfunctioning of blender transducer, we used additional water during job and ran out at end of flush.

Breakdown 1,554 psig, ISIP 575 psig, 5 min 510 psig, 10 min 475 psig, 15 min 442 psig. ATP 1060 psig, MTP 1152 psig, ATR 26.0 BPM, MTR 26.3 BPM.

TOTALS 400 gallons 15% HCL, 14,400 lbs 16/30 & 12/20 sand, 400 bbls gelled water.

Shut well in overnight to allow gel to break. Rig down Osage and Consolidated.

**1/19/2011**

TIH W/ TBG WASHED 40 FT OF SAND TO TD HUNG OFF TBG TIH W/ ROD STRING SPACED OUT ROD STRING HUNG ON JACK PLUMED IN WELL HEAD WOP.

**TUBING STRING**

37 JTS 2-3/8

SN @ 1216'

15' OEMA 1232'

**ROD STRING**

48 - 3/4 RODS

1-6' 1-2' ROD SUBS

1-1/2 X 6' CUP PUMP WITH 4' GTA THD