

ABERCROMBIE RTD, INC.
150 N. MAIN, SUITE 801
WICHITA, KANSAS 67202
(316)262-1841

CONFIDENTIAL
MAR 08 2006
KCC

ANSHUTZ #1-1

SW SE SW

SECTION 1-28S-33W

HASKELL COUNTY, KS

Abercrombie Energy, LLC

150 N. Main, Suite 801

Wichita, KS 67202

(316) 262-1841

OPERATOR: Abercrombie Energy, LLC

CONTRACTOR: Abercrombie RTD, Inc.

RIG #:3

JOB #: 2006304

PTD: 5650'

ELEVATION: 2961' GL

2969' KB

API #15-081-21643-0000

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KCC WICHITA

TIGHT HOLE

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- 03-05-06 5294' - Drilling. Drilled 217' - 24 hrs., drilling 11 hrs., trip 8 ½ hrs., rig check 1/4 hr., jet pits 1/4 hr., CFS 1 hr., testing 3 hrs. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'. Cut 3432' - 126 hrs. Mud weight 9.0, Viscosity 50, PV/YP 15/24, Gels 14/47, Water loss 7.2, pH 9.5, Chlorides 1,500, Solids 5.9%, LCM 5#. Daily Mud \$7,151.00, Accum. Mud \$17,291.00. Mud mix: gel 90 sks., caustic 4 sks., soda ash 4 sks., lignite 3 sks., drispac 1 sk., hulls 40 sks. Deviation - 1° @ 5077'. Bit weight 34,000, 1250# pump, rot 70-80, SPM 57.
DST #1 5018' - 5077' (Atoka)
30-60-30-60
1st open - ½" blow died: 2nd open - no blow
Recovered: 3' DM w/oil spots
IFP: 19-25# FFP: 21-26#
ISIP: 61# FSIP: 49#
BHT: 120°
- 03-06-06 5613' - Drilling. Drilled 319' - 24 hrs., drilling 22 hrs., rig check 3/4 hr., jet pits 3/4 hr., repairs ½ hr. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'. Cut 3741' - 148 1/4 hrs. Mud weight 9.0, Viscosity 60, PV/YP 15/20, Gels 14/42, Water loss 7.2, pH 10.0, Chlorides 1,700, Solids 4.2%, LCM 5#. Daily Mud \$2,283.00, Accum. Mud \$19,574.00. Mud mix: gel 105 sks., caustic 6 sks., soda ash 4 sks., lignite 3 sks., drispac 1 sk., hulls 70 sks. Bit weight 42,000, 1250# pump, rot 80, SPM 54.
- 03-07-06 5648' - Lay down pipe - P&A. Drilled 35' - 24 hrs., drilling 2 1/4 hrs., trip 7 3/4 hrs., circulate 1 3/4 hrs., logging 5 1/4 hrs., lay down pipe 4 hrs., WOO 3 hrs. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872', out @ 5648'. Cut 3776' - 150 ½ hrs. Mud weight 8.8, Viscosity 60, PV/YP 16/23, Gels 15/50, Water loss 7.2, pH 10.0, Chlorides 1,100, Solids 3.6%, LCM 6#. Daily Mud \$2,752.00, Accum. Mud \$22,327.00. Deviation - 1 1/4° @ 5648'. Bit weight 42,000, 1250# pump, rot 75-80, SPM 54.
- 03-08-06 5648' - Rig down. Trip 1 1/4 hrs., jet pits 3 ½ hrs., cementing 2 hrs., cellar work 3 hrs., lay down pipe 2 hrs., tear down 2 hrs., WOC truck 10 1/4 hrs. Mud weight 9.0, Viscosity 60, LCM 6#, Chlorides 700, Calcium 100, Volume 1,800. Accum. Mud \$22,327.00. Plugged D&A. 1st plug @ 1900' w/50 sks., 2nd plug @ 920' w/50 sks., 3rd plug @ 60' w/20 sks, 15 sks. in rathole. Cemented w/60/40 Poz, 4% gel. Final plug down @ 1:30 a.m. 03-08-06. Job by Acid Services. KCC contact - Steve Duran 03-06-06.

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- 02-09-06 Building location.
- 02-13-06 MIRU
- 02-14-06 Moved in - waiting on repairs.
- 02-15-06 Rig repairs.
- 02-16-06 40' - Drilling. Drilled 40' - 24 hrs., rathole 1 hr., pump water 22 hrs. Bit #1, 12 1/4" Varel CH1GJMS, SN: 215056, in @ 40'. Cut 40' - 1 hr. Mud weight 8.8, Viscosity 28, LCM 8#. Daily Mud \$1,200.00, Accum. Mud \$1,200.00. Mud mix: gel 150 sks., hulls 60 sks. Bit weight 10,000, 500# pump, rot 90, SPM 58. Spud @ 6:00 a.m. 02-16-06.
- 02-17-06 815' - Drilling. Drilled 775' - 24 hrs., drilling 9 hrs., trip 2 1/2 hrs., rig check 1/2 hr., repairs 12 hr. Bit #1, 12 1/4" Varel CH1GJMS, SN: 275056, in @ 0'. Cut 815' - 10 hrs. Mud weight 9.6, Viscosity 40, PV/YP 9/14, Gels 7/21, pH 7.0, Chlorides 1,100, Solids 4.0%, LCM 7#. Daily Mud \$3,038.00, Accum. Mud \$3,038.00. Mud mix: gel 110 sks., lime 9 sks., hulls 120 sks. Bit weight 20-30,000, 800# pump, rot 120, SPM 60.
- 02-18-06 1872' - TOH to run 8 5/8". Drilled 1056' - 24 hrs., drilling 15 1/4 hrs., short trip 2 hrs., rig check 1/4 hr., circulate 4 1/4 hrs., repairs 2 1/4 hrs. Bit #1, 12 1/4" Varel CH1GJMS, SN: 275056, in @ 0', out @ 1872'. Cut 1872' - 25 1/4 hrs. Mud weight 9.3, Viscosity 38, PV/YP 9/14, Gels 7/21, pH 7.0, Chlorides 1,000, Solids 4.0%, LCM 7#. Accum. Mud \$3,038.00. Mud mix: gel 46 sks., lime 3 sks., hulls 130 sks. Bit weight 25-30,000, 1000# pump, rot 120, SPM 58.
- 02-19-06 1872' - NU. Trip 3 1/2 hrs., rig check 1/2 hr., run casing 5 1/2 hrs., cementing 2 1/4 hrs., cellar work 6 hrs., repairs 2 1/4 hrs., WOC 4 hrs. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'. Mud properties - water. Accum. Mud \$3,038.00. Deviation - 3/4° @ 1872'. Ran 45 jts. new 23# 8 5/8" casing, set @ 1865'. Cemented w/400 sks. A-Con, 3% cc, 1/4# flake and 180 sks. Common, 2% cc, 1/4# flake. Did circulate. Plug down @ 7:45 p.m. 02-18-06. Job by Acid Services.
- 02-20-06 1872' - Rig repairs. Trip 2 1/2 hrs., repairs 21 1/2 hrs. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'.
- 02-21-06 1872' - Rig repairs.
- 02-22-06 1872' - Rig repairs
- 02-23-06 1872' - Rig repairs.
- 02-24-06 1872' - Rig repairs.

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- 02-25-06 1872' - Rig repairs.
- 02-26-06 1872' - Rig repairs.
- 02-27-06 2635' - Drilling. Drilled 763' - 24 hrs., drilling 17 1/4 hrs., rig check 1/2 hr., jet pits 1/4 hr., repairs 2 1/4 hrs., WO pump 2 hrs., drill cement 1 3/4 hrs. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'. Cut 763' - 17 1/4 hrs. Mud weight 8.8, Viscosity 40, LCM 5#. Daily Mud \$1,016.00, Accum. Mud \$4,025.00. Mud mix: desco 3 sks., gel 180 sks., soda ash 8 sks., hulls 60 sks. Bit weight 36-38,000, 1000# pump, rot 75, SPM 58.
- 02-28-06 3415' - Drilling. Drilled 780' - 24 hrs., drilling 22 3/4 hrs., rig check 3/4 hr., jet pits 1/4 hr., repairs 1/4 hr. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'. Cut 1543' - 40 hrs. Mud weight 9.0, Viscosity 42, PV/YP 10/14, Gels 10/28, pH 7.0, Calcium 240, Chlorides 1,800, Solids 2.6%, LCM 6#. Daily Mud \$2,942.00, Accum. Mud \$6,997.00. Mud mix: desco 2 sks., gel 95 sks., soda ash 8 sks., hulls 70 sks. Bit weight 40,000, 1000# pump, rot 75, SPM 58.
- 03-01-06 4095' - Drilling. Drilled 680' - 24 hrs., drilling 22 1/4 hrs., rig check 3/4 hr., jet pits 1/4 hr., repairs 3/4 hr. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'. Cut 2223' - 61 3/4 hrs. Mud weight 9.2, Viscosity 48, PV/YP 6/12, Gels 5/18, Water loss 8.8, pH 7.0, Calcium 400, Chlorides 2,300, Solids 5.5%, LCM 4#. Daily Mud \$1,929.00, Accum. Mud \$8,927.00. Mud mix: gel 95 sks., caustic 6 sks., soda ash 9 sks., lignite 6 sks., drispac 1 sk., hulls 30 sks. Bit weight 40,000, 1100# pump, rot 75, SPM 58.
- 03-02-06 4570' - Drilling. Drilled 475' - 24 hrs., drilling 22 3/4 hrs., rig check 3/4 hr., jet pits 1/2 hr. Bit #2, 7 7/8" HTC F27I, SN: PD2751, in @ 1872'. Cut 2698' - 84 1/2 hrs. Mud weight 9.1, Viscosity 55, PV/YP 13/7, Gels 12/35, Water loss 8.0, pH 10.0, Chlorides 1,900, Solids 6.3%, LCM 4#. Daily Mud \$3,687.00, Accum. Mud \$14,414.00. Mud mix: gel 160 sks., caustic 6 sks., soda ash 6 sks., lignite 5 sks., drispac 1 sk., hulls 100 sks. Bit weight 40,000, 1000# pump, rot 75, SPM 57.
- 03-03-06 4935' - Drilling. Drilled 355' - 24 hrs., drilling 22 1/4 hrs., rig check 3/4 hr., jet pits 1/4 hr., CFS 3/4 hr. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'. Cut 3053' - 106 3/4 hrs. Mud weight 9.0, Viscosity 55, PV/YP 13/17, Gels 12/35, Water loss 8.0, pH 10.0, Chlorides 1,900, Solids 6.3%, LCM 4#. Daily Mud \$2,687.00, Accum. Mud \$14,447.00. Mud mix: gel 80 sks., caustic 3 sks., soda ash 4 sks., lignite 3 sks., drispac 1 sk., hulls 55 sks. Bit weight 40,000, 1000# pump, rot 75, SPM 57.
- 03-04-06 5077' - TIH w/DST #1. Drilled 142' - 24 hrs., drilling 9 1/4 hrs., trip 9 3/4 hrs., rig check 1/4 hr., jet pits 1/4 hr., circulate 3 hrs., repairs 3/4 hr., PU tool 3/4 hr. Bit #2, 7 7/8" STC F27I, SN: PD2751, in @ 1872'. Cut 3205' - 115 1/4 hrs. Mud weight 9.0, Viscosity 55, PV/YP 14/12, Gels 12/45, Water loss 7.2, pH 10.0, Calcium 70, Chlorides 1,700, Solids 4.9%, LCM 4#. Daily Mud \$2,805.00, Accum. Mud \$17,219.00. Deviation - 1° @ 5077'. Bit weight 42,000, 1200# pump, rot 75-80, SPM 57.

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TIGHT HOLE STRUCTURAL COMPARISON

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Abercrombie's Anshutz #1-1
SW SE SW Sec. 1-28S-33W 2969' KB

Abercrombie's Cox #1-12
1190' FNL & 1965' FWL Sec. 12-28S-33W

	SAMPLE TOPS		LOG TOPS		LOG DATUMS	COMPARISON
Wabaunsee					-399	
Topeka					-750	
Heebner	4133'	-1164	4125'	-1156	-1150	-6'
Lansing	4212'	-1243	4213'	-1244	-1233	-11'
Lansing G	4466'	-1497	4460'	-1491	-1478	-13'
Kansas City A	4632'	-1663	4629'	-1660	-1641	-19'
Kansas City B	4673'	-1704	4671'	-1702	-1695	-7'
Marmaton	4760'	-1791	4758'	-1789	-1778	-11'
Marmaton "B"	4788'	-1819	4783'	-1814	-1805	-9'
Pawnee	4862'	-1893	4856'	-1887	-1874	-13'
Ft. Scott	4896'	-1927	4890'	-1921	-1905	-16'
Cher. Shale	4905'	-1936	4898'	-1929	-1914	-15'
Atoka	5009'	-2040	5003'	-2034	-2016	-18'
Morrow Sh.	5171'	-2202	5165'	-2196	-2177	-19'
Upper Morrow SS	Absent		Absent		-2210	
Middle Morrow SS	Absent		Absent		None	
Chester	5296'	-2327	5276'	-2307	-2310	+3'
Chester SS	Absent		Absent		-2334	
St. Genevieve	5422'	-2453	5408'	-2439	-2450	+11'
St. Louis			5457'	-2488	-2495	+7'
St. Louis B	5509'	-2540	5503'	-2534	-2539	+5'
St. Louis C	5593'	-2624	Absent		-2615	
St. Louis D	5636'	-2667	5622'	-2653	-2654	+1'
Total Depth	5648'	-2679	5644'	-2675	-2667	