

ABERCROMBIE RTD, INC.

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

COX #3-12

1450' FNL & 2005' FEL
Section 12-28S-33W
Haskell County, KS

OPERATOR: Abercrombie Energy, LLC
CONTRACTOR: Abercrombie RTD, Inc.

RIG #:3

JOB #: 2005307

PTD: 5650'

Abercrombie Energy, LLC
150 N. Main, Suite 801
Wichita, KS 67202
(316) 262-1841

ELEVATION: 2959' GL
2967' KB

API #15-081-21621-0000

TIGHT HOLE

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- 10-05-05 Location Staked. Estimated move in date - October 31, 2005.
- 10-25-05 Building location.
- 11-02-05 MIRU
- 11-03-05 290' - Drilling. Drilled 290' - 24 hrs., drilling 4 1/4 hrs., repairs 3/4 hr., MIRU, mix mud & drill rathole 15 hrs., other 4 hrs. Bit #1, 12 1/4" Varel CH1GJMS, SN: 214630, in @ 0'. Cut 290' - 4 1/4 hrs. Mud weight 9.3, Viscosity 40, LCM 10#. Daily Mud \$2,869.00, Accum. Mud \$2,869.00. Spud @ 10:00 p.m. 11-02-05. Mud mix: gel 135 sks., lime 2 sks., hulls 150 sks. Bit weight - all, 600# pump, rot 140, SPM 56.
- 11-04-05 1472' - Drilling. Drilled 1182' - 24 hrs., drilling 19 3/4 hrs., trip 1 1/4 hrs., rig check 1/2 hr., repairs 1 1/2 hrs., conn. 1 hr. Bit #1, 12 1/4" Varel CH1GJMS, SN: 214630, in @ 0'. Cut 1472' - 24 hrs. Mud weight 9.4, Viscosity 40, PV/YP 13/15, Gels 13/30, pH 7.0, Chlorides 900, Solids 7.2%, LCM 12#. Daily Mud \$1,813.00, Accum. Mud \$4,682.00. Mud mix: gel 35 sks., lime 3 sks., hulls 150 sks. Bit weight 25,000, 600# pump, rot 140, SPM 56.
- 11-05-05 1886' - NU. Drilled 414' - 24 hrs., drilling 6 1/2 hrs., trip 5 1/4 hrs., rig check 1/4 hr., circulate 1 1/4 hrs., run casing 2 1/2 hrs., cementing 1 1/2 hrs., cellar work 2 hrs., lay down pipe 1/2 hr., repairs 1/4 hr., WOC 4 hrs. Bit #1, 12 1/4" Varel CH1GJMS, SN: 214630, in @ 0', out @ 1886'. Cut 1886' - 30 1/2 hrs. Mud weight 9.6, Viscosity 45, LCM 6#. Accum. Mud \$4,682.00. Mud mix: lime 2 sks. Deviation - 1degree @ 1886'. Bit weight 20-25,000, 700# pump, rot 140, SPM 58. Ran 47 jts. New 24# 8 5/8" J-55 Casing, set @ 1885'. Cemented w/400 sks. A-Con, 3% cc, 1/4# flocele and 150 sks. Com, 2% cc, 1/4# flocele. Cement did circulate. Plug down @ 1:00 a.m. 11-05-05. Job by Acid Services.
- 11-06-05 2496' - Drilling. Drilled 629' - 24 hrs., drilling 9 1/2 hrs., trip 1 1/2 hrs., rig check 1/2 hr., cellar work 4 hrs., repairs 5 hrs., test BOP 1 1/2 hrs., drill cement 2 hrs. Bit #2, 7 7/8" STC ER6502, SN: PC6357, in @ 1867'. Cut 629' - 9 1/2 hrs. Mud weight 8.9, Viscosity 30. Daily Mud \$2,370.00, Accum. Mud \$7,053.00. Mud mix: gel 105 sks., soda ash 6 sks., drispac 1 sk., hulls 24 sks. Bit weight 36,000, 1200# pump, rot 70, SPM 58.
- 11-07-05 3370' - Drilling. Drilled 874' - 24 hrs., drilling 21 3/4 hrs., rig check 1/2 hr., jet pits 1 hr., repairs 3/4 hr. Bit #2, 7 7/8" STC ER6502, SN: PC6357, in @ 1867'. Cut 1503' - 31 1/4 hrs. Mud weight 9.1, Viscosity 37, PV/YP 8/13, Gels 8/22, pH 7.0, Chlorides 3,100, Solids 5.4%, LCM 4#. Daily Mud \$2,213.00, Accum. Mud \$9,266.00. Mud mix: gel 80 sks., soda ash 6 sks., hulls 40 sks., desco 1 sk. Bit weight 40,000, 1200# pump, rot 80, SPM 58.

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- 11-08-05 4175' - Drilling. Drilled 805' - 24 hrs., drilling 23 hrs., rig check 3/4 hr., jet pits 1/4 hr. Bit #2, 7 7/8" STC ER6502, SN: PC6357, in @ 1867'. Cut 2308' - 54 3/4 hrs. Mud weight 9.1, Viscosity 45, PV/YP 13/17, Gels 11/37, Water loss 9.6, pH 8.5, Chlorides 2,300, Solids 5.5%, LCM 5#. Daily Mud \$3,443.00, Accum. Mud \$12,710.00. Mud mix: gel 125 sks., caustic 6 sks., soda ash 22 sks., lignite 5 sks., drispac 2 sks., hulls 90 sks. Bit weight 40,000, 1200# pump, rot 75-80, SPM 56. Page 2
- 11-09-05 4745' - Drilling. Drilled 570' - 24 hrs., drilling 23 1/4 hrs., rig check 3/4 hr. Bit #2, 7 7/8" STC ER6502, SN: PC6357, in @ 1867'. Cut 2878' - 78 hrs. Mud weight 9.1, Viscosity 56, PV/YP 15/23, Gels 14/45, Water loss 7.2, pH 10.0, Chlorides 2,100, Solids 5.5%, LCM 5#. Daily Mud \$2,403.00, Accum. Mud \$15,113.00. Mud mix: gel 100 sks., caustic 5 sks., soda ash 8 sks., lignite 3 sks., drispac 1 sk., hulls 50 sks. Bit weight 38,000, 1200# pump, rot 70, SPM 55.
- 11-10-05 4792' - TOH w/DST tool. Drilled 47' - 24 hrs., drilling 2 hrs., trip 9 hrs., jet pits 1/4 hr., circulate 2 hrs., wireline 1/4 hr., testing 4 1/2 hrs., repairs 1/2 hr., PU tool 1/2 hr., short trip 4 hrs., CFS 1 hr. Bit #2, 7 7/8" STC ER6502, SN: PC6357, in @ 1867'. Cut 2925' - 80 hrs. Mud weight 9.0, Viscosity 47, PV/YP 13/17, Gels 13/39, Water loss 7.2, pH 9.5, Chlorides 2,000, Solids 5.0%, LCM 4#. Daily Mud \$1,353.00, Accum. Mud \$16,467.00. Mud mix: gel 65 sks., caustic 1 sk., soda ash 2 sks., lignite 2 sks., drispac 1 sk., hulls 25 sks. Deviation - 1° @ 4792'. Bit weight 40,000, 1200# pump, rot 75, SPM 54.
DST#1 4766' - 4792' (Marmaton 'B' Zone)
30-60-60-90
25 unit gas kick
Recovered: 2700' gip and 1400' sgc & mc wtr. (5% gas, 5% mud, 90% wtr.)
ICIP: 1398# IFP: 72-319#
FCIP: 1397# FFP: 345-592#
BHT: 128°
Pipe strap 1.0' long, no correction made.
- 11-11-05 4876' - DST#2. Drilled 82' - 24 hrs., drilling 4 1/2 hrs., trip 11 1/4 hrs., rig check 1/4 hr., circulate 1 1/2 hrs., testing 3 1/2 hrs., repairs 1 1/2 hrs., LD and PU tool 1 1/2 hrs. Bit #3, 7 7/8" Smith F271, SN: PC2294, in @ 4792'. Cut 82' - 4 1/2 hrs. Mud weight 9.0, Viscosity 52, PV/YP 16/24, Gels 14/50, Water loss 7.2, pH 10.0, Chlorides 2100, Solids 4.9%, LCM 2#. Daily Mud \$591.00, Accum. Mud \$17,058.00. Mud mix: gel 40 sks., caustic 1 sk., soda ash 2 sks., lignite 2 sks. Bit weight 40,000, 1000# pump, rot 75, SPM 54.
DST#2 4835' - 4874' (Pawnee)
30-60-60-90
20 unit gas kick
Recovered: 994' gip, 62' mud w/trace oil, 62' SOCM (2% oil), 62' wtry oil & gas cut mud (15% gas, 10% oil, 10% water, 65% mud)
ICIP: 1376# IFP: 21-45#
FCIP: 1347# FFP: 57-93#
BHT: 123°

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11-12-05 5054' - TOH to P/U DST Tool. Drilled 180' - 24 hrs., drilling 12 3/4 hrs., trip 6 3/4 hrs., rig check 1 hr., circulate 1 1/2 hrs., wireline 1/4 hr., testing 1/2 hrs., repairs 1 1/2 hrs., LD tool 3/4 hrs. Bit #3, 7 7/8" Smith F271, SN: PC2294, in @ 4792'. Cut 262' - 11 1/4 hrs. Mud weight 9.0, Viscosity 55, PV/YP 16/24, Gels 14/20, Water loss 18, pH 210.0, Chlorides 2100, Solids 4.9%, LCM 4#. Accum. Mud \$17,058.00. Mud mix: gel 40 sks., caustic 3 sk., soda ash 2 sks., lignite 2 sks., hulls 56 sks. Bit weight 40,000, 1000# pump, rot 75-80, SPM 56.

DST#3 5003' - 5054' (Atoka)

30-60-60-90

Strong blow off bottom 29 min.

47 unit gas kick and 7 unit gas kick

Recovered: 1860' gip, 72' total fluid consisting of: 2' clean oil, 60% gassy muddy oil (40% gas, 30% oil, 30% mud) 10' mud w/tr. Oil & tr. Wtr.

ICIP: 978#

IFP: 18-27#

FCIP: 1324#

FFP: 24-37#

BHT: 119°

11-13-05 5215' - Drilling. Drilled 189' - 24 hrs. Bit #3, 7 7/8" Smith F271, SN: PC2294, in @ 4792'. Cut 451' - 26 1/4 hrs. Daily Mud \$1,910.00, Accum. Mud \$18,969.00. Bit weight 33,000, 1000# pump, rot 75-80, SPM 48.

DST#4 5144' - 5243' (Middle Morrow Sand)

30-60-30-60

Weak blow (1') 30 min.

43 unit gas kick

Recovered: 30' mud.

ICIP: 64#

IFP: 31-40#

FCIP: 65#

FFP: 35-41#

BHT: 121°

11-14-05 5300' - Drilling. Drilled 57' - 24 hrs., drilling 5 3/4 hrs., trip 11 1/2 hrs., circulate 1 1/2 hrs., wireline 1/4 hr., testing 3 1/4 hrs., repair 1/2 hr., pick up and lay down tool 1 1/4 hrs. Bit #3, 7 7/8" Smith F271, SN: PC2294, in @ 4792'. Cut 508' - 32 hrs. Mud weight 8.9, Viscosity 50, PV/YP 16/24, Gels 14/52, Water loss 7.2, pH 9.5 Chlorides 2000, Solids 2.8%, LCM 5#. Daily Mud \$1,728.00, Accum. Mud \$20,697.00. Mud mix: gel 45 sks., caustic 3 sk., soda ash 2 sks., lignite 2 sks., drispac 1 sk., hulls 30 sks. Bit weight 34,000, 1200# pump, rot 75-80, SPM 50.

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- 11-15-05 5352' - TIH Bit. Drilled 52' - 24 hrs., drilling 3 3/4 hrs., trip 12 1/4 hrs., rig check 1/4 hr., circulate 2 1/4 hrs., testing 4 hrs., pickup & lay down DST Tool 1 1/2 hrs. Bit #3, 7 7/8" Smith F271, SN: PC2294, in @ 4792'. Cut 560' - 35 3/4 hrs. Mud weight 8.9, Viscosity 56, PV/YP 17/26, Gels 15/46, Water loss 7.2, pH 9.5, Chlorides 2000, Solids 4.1%, LCM 4#. Daily Mud \$1,298.00, Accum. Mud \$21,995.00. Deviation 1/2° @ 5352'. Bit weight 34,000, 1200# pump, rot 70, SPM 48.
DST#5 5325' - 5352' (Chester Sand)
30-60-60-90
18 to 28 unit gas kick
Strong blow off bottom of bucket in 13 min.
Recovered: 200' gip + 650' slighty gas cut muddy saltwater (1% gas, 4% mud, 95% wtr). No shows of oil. (Chlorides 70,000 ppm - mud system 2000 ppm).
ICIP: 1286# IFP: 45-265#
FCIP: 1279# FFP: 274-457#
BHT: 137°
- 11-16-05 5605' - Drilling. Drilled 253' - 24 hrs., drilling 20 1/4 hrs., trip 1 3/4 hrs., rig check 3/4 hr., repair pump rod oilers 1 1/4 hrs. Bit #3, 7 7/8" Smith F271, SN: PC2294, in @ 4792'. Cut 813' - 56 hrs. Mud weight 8.9, Viscosity 62, PV/YP 16/27, Gels 15/56, Water loss 7.6, pH 9.0, Chlorides 2400, Solids 4.8%, LCM 4#. Daily Mud \$5,875.00, Accum. Mud \$22,053.00. Mud mix: gel 45 sks., caustic 4 sks., soda ash 3 sks., lignite 2 sks., drispac 1 sk., hulls 40 sks. Bit weight 40,000, 1200# pump, rot 75, SPM 54. Reached total depth @ 5631' @ 8:30 A.M., 11-16-05. Preparing to log.
- 11-17-05 5631' - P&A. Drilled 26' - 24 hrs., drilling 1 1/2 hrs., trip 8 hrs., circulate 2 hrs., logging 6 hrs., lay down pipe 4 1/2 hrs., pluggin 2 hrs. Bit #3, 7 7/8" STC F271, SN: PC2294, in @ 4792', out @ 5631'. Cut 839' - 57 1/2 hrs. Mud weight 8.9, Viscosity 65, PV/YP 15/25, Gels 12/48, Water loss 8.0, pH 9.0, Chlorides 2,400, Solids 4.0%, LCM 4#. Daily Mud \$1,274.00, Accum. Mud \$23,328.00. Mud mix: gel 53 sks., caustic 4 sks., soda ash 2 sks., lignite 1 sk., hulls 40 sks. Deviation - 3/4° @ 5631'. Bit weight 40,000, 1200# pump, rot 70, SPM 54. LTD 5636'. Plugged D&A. 1st plug @ 3300' w/100 sks., 1890' w/50 sks., 770' w/40 sks., 60' w/15 sks., 15 sks. in rathole. Cemented w/60/40 Poz, 6% gel. Final plug down @ 10:00 a.m. 11-17-05. Job by Halliburton.

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STRUCTURAL COMPARISON

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Abercrombie's Cox #3-12
1450' FNL & 2005' FEL Sec. 12-28S-33W

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

	SAMPLE TOPS		LOG TOPS		LOG DATUMS	COMPARISON
Heebner	4124'	-1157	4121'	-1154	-1150	-4'
Lansing	4204'	-1237	4213'	-1246	-1233	-13'
Lansing G	4451'	-1484	4448'	-1481	-1478	-3'
Kansas City A	4613'	-1646	4613'	-1646	-1641	-5'
Kansas City B	4660'	-1693	4665'	-1698	-1695	-3'
Marmaton	4753'	-1786	4743'	-1776	-1778	+2'
Marmaton "B"	4775'	-1808	4776'	-1809	-1805	-4'
Pawnee	4849'	-1882	4851'	-1884	-1874	-10'
Ft. Scott	4883'	-1916	4884'	-1917	-1905	-12'
Cher. Shale	4893'	-1926	4893'	-1926	-1914	-12'
Atoka	4996'	-2029	4993'	-2026	-2016	-10'
Morrow Sh.	5153'	-2186	5156'	-2189	-2177	-12'
Upper Morrow SS	NONE	PRESENT	NONE PRESENT		-2210	
Middle Morrow SS	5221'	-2254	5222'	-2255	None	
Chester	5290'	-2323	5293'	-2326	-2310	-16'
Chester SS	5338'	-2371	5339'	-2372	-2334	-38'
St. Genevieve	5424'	-2457	5418'	-2451	-2450	-1'
St. Louis					-2495	
St. Louis B	5514'	-2547	5515'	-2548	-2539	-9'
St. Louis C	5569'	-2602	5569'	-2602	-2615	+13'
St. Louis D	5618'	-2651	5619'	-2652	-2654	+2'
Total Depth	5631'	-2664	5635'		-2667	