

Abercrombie RTD, INC.

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

BARBEE-GRANGER #1-14

1346' FSL & 1830' FEL
Section 14-28S-33W
Haskell County, KS

KCC

MAR 11 2005

CONFIDENTIAL

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

RIG #:4

JOB #: 2004421

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

ELEVATION: 2955' GL
2967' KB

API #15-081-21558-0000

- 12-13-04 Building location, moving rotary tools and prepare to spud tomorrow.
- 12-14-04 Did not spud - down for rig repairs.
- 12-15-04 Down for rig repairs.
- 12-16-04 Down for rig repairs.
- 12-17-04 Preparing to spud.
- 12-18-04 104' - Drilling. Drilled 104' - 24 hrs., drilling 2 hrs., RU 22 hrs. Bit #1, 12 1/4" Varel Re-run, CHGMS, SN: 199798, in @ 0'. Cut 104' - 2 hrs. Mud weight 9.8, Viscosity 38, LCM 3#. Spud @ 5:00 a.m. 12-18-04. Mud mix: gel 35 sks., lime 2 sks. Bit weight 30,000, 600# pump, rot 110, SPM 100-100.
- 12-19-04 1830' - Drilling. Drilled 1726' - 24 hrs., drilling 21 hrs., rig check 1 1/2 hrs., repairs 1 1/2 hrs. Bit #1, 12 1/4" Varel CHGMS, SN: 199798, in @ 0'. Cut 1830' - 23 hrs. Mud weight 9.8, Viscosity 35, LCM 1/2#. Mud mix: gel 84 sks., lime 3 sks., hulls 99 sks. Bit weight 38-40,000, 1000# pump, rot 110, SPM 50-50.
- 12-20-04 1879' - WOC. Drilled 49' - 24 hrs., drilling 1 1/2 hrs., trip 6 1/4 hrs., circulate 1 3/4 hrs., survey 1/4 hr., run casing 5 hrs., cementing 1 hr., WOC 8 1/4 hrs. Bit #1, 12 1/4" Varel CHGMS, SN: 199798, in @ 0', out @ 1879'. Cut 1879' - 24 1/2 hrs. Mud weight 9.8, Viscosity 35, LCM 1/2#. Daily Mud \$2,303.36, Accum. Mud \$2,303.36. Mud mix: lime 1 sk., hulls 45 sks. Deviation - 1/2° @ 1879'. Bit weight 40,000, 1200# pump, rot 110, SPM 100. Ran 37 jts. new 24# J-55 8 5/8" casing, tally 1864', set @ 1876', cemented w/460 sks. A-Con, 3% cc, 1/4# flocele per sk, 12 bags multi-seal. Followed w/150 sks. Class A, 3% cc, 1/4# flocele per sk. Cement circulated approx. 30 bbls. Fell back 70'. Cemented w/3 yds. Redi-mix, 3% cc. Plug down @ 10:45 p.m. 12-19-04. Job by Acid Services.
- 12-21-04 2413' - Drilling. Drilled 534' - 24 hrs., drilling 9 hrs., trip 1 1/4 hrs., rig check 1/2 hr., circulate 1/2 hr., cementing 1/4 hr., cellar work 2 1/2 hrs., repairs 1/2 hr., WOC 5 3/4 hrs., drill out 2 3/4 hrs., test BOP 1 hr. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 534' - 9 hrs. Mud weight 9.0, Viscosity 27. Accum. Mud \$2,303.36. Mud mix: gel 40 sks., lime 1 sk. Bit weight 38,000, 950# pump, rot 80, SPM 60.
- 12-22-04 3250' - Drilling. Drilled 23 1/4 hrs., rig check 3/4 hr. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 1371' - 32 1/4 hrs. Mud weight 9.4, Viscosity 37, PV/YP 7/23, Gels 9/18, pH 7.0, Chlorides 16,000, Solids 6.9%, tr/sand, LCM 4#. Daily Mud \$1,247.44, Revised Accum. Mud \$4,608.65. Mud mix: gel 100 sks., hulls 62 sks. Bit weight 38,000, 1025# pump, rot 70, SPM 60.

Page 1

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- 12-23-04 4010' - Drilling. Drilled 760' - 24 hrs., drilling 23 hrs., rig check 3/4 hr., jet pit 1/4 hr. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 2131' - 55 hrs. Mud weight 8.5, Viscosity 53, PV/YP 7/23, Gels 9/18, pH 7.0, Chlorides 16,000, Solids 6.9%, tr/sand, LCM 2#. Daily Mud \$1,247.44, Accum. Mud \$4,608.65. Mud mix: gel 182 sks., caustic 2 sks., soda ash 1 sks., lignite 2 1/4 sks., drispac 1/4 sk., hulls 55 sks. Bit weight 38,000, 1050# pump, rot 70, SPM 60. DST#1 4142' - 4203' (Lansing 'B' Zone)
30-60-60-90
Strong blow, GTS 27 min. tstm.
Recovered: 93' g&wcmud (5% gas, 25% wtr., 70% mud)
93' g&mcwtr (5% gas, 20% mud, 75% wtr)
894' gcwtr. (5% gas, 95% wtr.)
1080' Total fluid
Chlorides 90,000 ppm, mud 700 ppm.
ISIP: 1107# FSIP: 1106#
IFP: 90-273# FFP: 334-497#
BHT - 116°
- 12-24-04 4203' - Testing. Drilled 193' - 24 hrs., drilling 6 hrs., trip 10 3/4 hrs., rig check 1/4 hr., circulate 3 3/4 hrs., wireline 1/4 hr., repairs 1 1/2 hrs., PU test tool 1 1/2 hrs. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879', out @ 4203'. Cut 2324' - 61 hrs. Mud weight 9.0, Viscosity 45, LCM 2#. Accum. Mud \$4,608.65. Mud mix: gel 35 sks., caustic 3 sks., soda ash 2 sks., lignite 1 1/4 sks., drispac 1/3 sk., hulls 15 sks. Deviation - 1° @ 4203'. Bit weight 40,000, 1100# pump, rot 72, SPM 60.
- 12-25-04 4203' - Rig shut down for Christmas. Trip 1 3/4 hrs., testing 4 1/2 hrs., lay down test tool 1/2 hr., drain up 2 1/2 hrs.
- 12-27-04 4460' - TOH for DST #2. Drilled 249' - 24 hrs., drilling 10 1/4 hrs., trip 2 3/4 hrs., rig check 1/4 hr., circulate 4 1/2 hrs., wireline 1/4 hr., RU 2 hrs., off for Christmas 4 hrs. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 2581' - 71 1/4 hrs. Mud weight 9.1, Viscosity 40, PV/YP 13/16, Gels 13/34, Water loss 8.8, pH 9.0, Chlorides 700, Solids 4.2%, tr/sand, LCM 3#. Daily Mud \$2,610.95, Accum. Mud \$7,219.60. Mud mix: gel 161 sks., caustic 3 sks., lignite 5 sks., drispac 1 sk., hulls 62 sks. Bit weight 38,000, 1050# pump, rot 70, SPM 60. Strapped pipe @ 4203' - made 4' down hole correction. DST#2 4416' - 4460' (Lansing 'G' Zone)
50-30-30-45
Strong blow
Recovered: 80' water cut mud w/spots oil (1% gas, 29% wtr, 70% mud)
1600' sli gas cut & mud cut wtr. w/oil spots (5% gas, 5% mud, 90% wtr)
Chlorides 120,000 ppm
ISIP: 1267# IFP: 477-989#
FSIP: 1259# FFP: 1042-1152#

Page 2

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- 12-28-04 4650' - Drilling. Drilled 190' - 24 hrs., drilling 9 1/4 hrs., trip 8 1/2 hrs., rig check 1/2 hr., circulate 1 1/4 hrs., testing 2 3/4 hrs., p/u & lay down test tool 1 3/4 hrs. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 2771' - 80 1/2 hrs. Mud weight 9.2, Viscosity 49, PV/YP 14/17, Gels 14/35, Water loss 11.2, pH 9.5, Chlorides 2,100, Solids 4.8%, tr/sand, LCM 3#. Daily Mud \$1,514.70, Accum. Mud \$8,734.30. Mud mix: gel 56 sks., caustic 6 sks., soda ash 2 sks., lignite 4 sks., drispac 1 sk., hulls 30 sks. Bit weight 40,000, 1000# pump, rot 75, SPM 58. 4769-78' (fossiliferous lime w/75 unit gas kick and show oil)
DST #3 4751' - 4783' (Marmaton 'B' Zone)
30-60-45-90
1st opening - GTS 2 min., gauged: 381 MCF/8 min., 459 MCF/18 min., 483 MCF/28 min.
2nd opening - 490 MCF/10 min., 545 MCF/20 min. & stabilized.
Recovered: 278' muddy water (40% mud, 60% wtr) Note: Recovery in drill collars - 1.37 bbls.; total fluid - 0.82 bbls. saltwater/0.55 bbls. mud.
Chlorides 200,000 ppm. Mud system 4300 ppm.
ISIP: 1440# IFP: 537-487#
FSIP: 1438# FFP: 268-269#
BHT - 119°
- 12-29-04 4783' - TIH after DST #3. Drilled 133' - 24 hrs., drilling 6 1/4 hrs., trip 9 3/4 hrs., rig check 1/4 hr., circulate 1 1/2 hrs., testing 4 1/4 hrs., p/u & lay down tool 2 hrs. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 2904' - 86 3/4 hrs. Mud weight 9.2, Viscosity 49, PV/YP 14/18, Gels 14/3, Water loss 11.2, pH 9.0, Chlorides 4,300, Solids 6.1%, tr/sand, LCM 3#. Daily Mud \$1,138.52, Accum. Mud \$9,872.82. Mud mix: gel 59 sks., caustic 2 sks. soda ash 2 sks., lignite 1 sk., hulls 45 sks., multi-seal 1 sk. Deviation - 1° @ 4783'. Bit weight 40,000, 1050# pump, rot 75, SPM 58.
4826 - 29 (fair poor w/show gas - 16 unit gas kick)
DST #4 4810' - 4843' (Pawnee)
OP: 30-60-45-90
1st opening - GTS 2 min., gauged: 631 mcf/10 min, 772 mcf /20 min., , 873 mcf/ 30 min.
2nd opening - gauged: 569 mcf/5 min., 772 mcf, 15 min, 839 mcf/25 min. & stabilized.
Recovered: 186' (0.92 bbls) GCM (5% gas, 95% mud).
ISIP: 1468# IFP: 260/286#
FFP: 190/224# FSIP: 1464#
- 12-30-04 4843' - Circulate & condition hole. Drilled 60' - 24 hrs., drilling 3 3/4 hrs., trip 12 hrs., rig check 1/2 hr., circulate 2 1/2 hrs., testing 4 hrs., p/u & lay down test tool 1 1/4 hrs. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 2964' - 90 1/2 hrs. Mud weight 8.9, Viscosity 52, PV/YP 14/19, Gels 14/36, Water loss 8.8, pH 10, Chlorides 4100, Solids 4%, tr/sand, LCM 3#. Daily Mud \$1,178.70, Accum. Mud \$11,051.52. Mud mix: gel 12 sks., caustic 2 sks., soda ash 2 sks., lignite 4 sks, drispac 1/3 sk., hulls 10 sks., cider Fib 1 sk., Multi-seal 1 sk. Bit weight 40,000, 1025# pump, rot 72, SPM 60.

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12-31-04 5023' - Tripping out of hole with DST #5. Drilled 180' last 24 hours, drilling 11 1/4 hrs, trip 5 hrs, rig check 1/4 hr, circulate 2 1/4 hrs, testing 4 hrs, survey 1/4 hr, pick up test tool 1 hr. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 3144' in 101.25 hours. Mud weight 9.0, Viscosity 51, PV/YP 14/19, Gels 14/38, Water loss 9.6, pH 9.5, Chlorides 4400, Solids 4.6%, trace sand, LCM 3#. Daily Mud \$525.52. Accum. Mud \$11,577.04. Mud mix: gel 90 sx, caustic 4 sx, soda ash 6 sx, lignite 3 sx, Drispac 2/3 sx, hulls 20 sx, cider fib 2 sx, multi-seal 2 sx. Bit weight 42,000# @ 72 RPM, pump pressure 1025# # 60 SPM. Dev survey @ 5023' = 1 degree.

Page 4

DST #5: 4981-5023 (Atoka)
30-60-60-90

Blow off bottom (BOB) 9 minutes on first open; no blow on first shut-in; BOB immediately on second open; no blow back; NO GAS TO SURFACE.

Recovered: 1' drilling mud w/ slight show gas in pipe

ISIP: 1206#

IFP: 21-23#

FSIP: 1450#

FFP: 15-21#

01-01-05 5315' - Drilling. Drilled 292' - 24 hrs., drilling 18 1/4 hrs., trip 3 1/2 hrs., rig check 3/4 hr., circulate 3/4 hr., rig up test tool 3/4 hr. Bit #2, 7 7/8" HTC EP5603, SN: 5064902, in @ 1879'. Cut 3436' - 119 1/2 hrs. Mud weight 9.2, Viscosity 58, PV/YP 15/20, Gels 15/42. Water loss 8.8, pH 10, Chlorides 4,600, Solids 6.1%, tr/sand, LCM 3#. Daily Mud \$1,717.50, Accum. Mud \$13,294.54. Mud mix: gel 108 sks., caustic 4 sks., soda ash 2 sks., lignite 1 1/2 sks., drispac 1/3 sk., hulls 35 sks., cider fib 2 sks., multi-seal 2 sks. Bit weight 33,000, 775# pump, rot 70, SPM 50. 5196' - 5200' poor-fair por w/sso (25 unit gas kick).

DST #6: 5134 - 5328 (Morrow)
30-60-30-60

Weak blow 40 min and died. Recovered: 40' drilling mud.

ICIP: 85#

IFP: 37/40#

FCIP 72#

FFP: 43/58#

BHT: 122°

01-02-05 5350' - Drilling. Drilled 22' - 24 hrs., drilling 3 hrs., trip 10 3/4 hrs., circulate 3 1/5 hrs., testing 3 1/2 hrs., survey 1/4 hr., WOTester & PU Test tool 2 1/2 hrs., wash & ream 50' to bottom 3/4 hr. Bit #2 7 7/8" HTC EP5603, SN: 5064902, in @ 1879', out @ 5328'. Cut 3449' - 120 hrs. Bit #3, 7 7/8 Hughes GX25, SN: 5056954, in @ 5328'. Cut 22' - 2 1/2 hrs. Mud weight 9.2, Viscosity 60, PV/YP 15/23, Gels 15/47, Water loss 7.2, pH 10.0, Chlorides 2900, Solids 6.2%, tr/sand, LCM 4#. Daily Mud \$1,565.86, Accum. Mud \$14,860.40. Mud mix: gel 64 sks., caustic 2 sks., soda ash 3 sks., lignite 3 sks., drispac 1/3 sk., hulls 15 sks., cider fib 1 sk., multi-seal 1 sk. Bit weight 40,000, 1300# pump, rot 66, SPM 50.

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-
- 01-03-05 5537' - Testing. Drilled 187' - 24 hrs., drilling 12 3/4 hrs., trip 5 hrs., rig check 3/4 hr., circulate 1 1/2 hrs., testing 2 3/4 hrs., PU test tool 1 1/4 hrs. Bit #3, 7 7/8 Hughes GX25, SN: 5056954, in @ 5328'. Cut 209' - 15 1/4 hrs. Mud weight 9.2, Viscosity 55, PV/YP 15/23, Gels 15/47, Water loss 7.2, pH 10.0, Chlorides 2900, Solids 6.2%, tr/sand, LCM 3#. Daily Mud \$1,216.62. Accum. Mud \$16,077.02. Mud mix: caustic 3 sks., hulls 10 sks., cider fib 1 sk., Multi-seal 1 sk. Deviation survey 1° @ 5537'. Bit weight 40,000, 1300# pump, rot 68, SPM 50. 5508' - 5533' (oolitic lime with slight show gas) Page 5
- DST #7: 5504' - 5537' (ST.L "B" Zone)
30 60 30 60
Weak blow for 24 min. & died. Recovered 30' mud.
ICIP: 1553# IFP: 21-29#
FCIP: 1473# FFP: 32-36# BHT: 132°
- 01-04-05 5636' RTD - Logging. Drilled 99' - 24 hrs. Drilling 8 1/2 hrs., trip 7 3/4 hrs., rig check 1/2 hr., circulate 1 1/2 hrs., wireline 1/2 hr., testing 3/4 hr., logging 4 1/2 hrs. Bit #3, 7 7/8" Hughes GX25, SN: 5056954, in @ 5328', out @ 5636'. Cut 308' - 23 3/4 hrs. Mud weight 9.3, Viscosity 57, PV/YP 15/22, Gels 15/45, Water loss 7.6, pH 10.5, Chlorides 3,100, Solids 7.1%, tr/sand, LCM 3#. Daily Mud \$460.85, Accum. Mud \$17,008.88. Mud mix: gel 13 sks., caustic 2 sks., hulls 14 sks., cider fib 5 sks., multi-seal 1 sk. Deviation - 1 1/4° @ 5636'. Bit weight 44,000, 1100# pump, rot 64, SPM 50. LTD - 5640'. Preparing to run 4 1/2" casing.
- 01-05-05 5636' RTD - rigging down. Logging 1 1/4 hrs, trip pipe 3 hrs, circulate to condition hole 2 1/2 hrs, lay down drill pipe 7 1/4 hrs, rig up casing crew 1 3/4 hrs, run casing 5 3/4 hrs, rig up cementers 1/2 hr, cementing 2 hrs. No mud check. Ran 119 joints (5002') 10.5# 4 1/2 production casing, set at 5000', landed plug @720#, cemented w/500 gal superflush followed by 175 sx AA2 common w/990# salt & 132 lbs FLA-322, plug down @ 7:00 am 01/05/05, 25sx 60/40 pozmix in mousehole & rathole. Job by Acid Services. Rig released @ 10:30 a.m. 01-05-05.

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STRUCTURAL COMPARISON

Abercrombie #1-14 Barbee-Granger
 1346' FSL & 1830' FEL 14-28S-33W

Berexco #1-14 Barbee
 C SE SE 14-28S-33W

Hugoton Energy #1-23 Barbee
 C NE NE SW 23-28S-33W

	SAMPLE TOPS		LOG TOPS		LOG DATUMS		LOG DATUMS	
Heebner Shale	4081'	-1114	4086'	-1119	-1122	+3'	-1112	-7'
Lansing A	4172'	-1205	4172'	-1205	-1217	+12'	-1199	-6'
Lansing G	4413'	-1446	4412'	-1445	-1465	+20'	-1458	+13'
Kansas City A	4603'	-1636	4603'	-1636	-1649	+13'	-1637	+1'
Kansas City B	4642'	-1675	4642'	-1675	-1696	+21'	-1677	+2'
Marmaton	4737'	-1770	4733'	-1766	-1794	+28'	-1776	+10'
Pawnee	4822	-1855	4823'	-1856	-1881	+25'	-1875	+19'
Ft. Scott	4854	-1887	4857'	-1890	-1914	+24'	-1912	+22'
Cherokee Shale	4861	-1894	4862'	-1895	-1923	+28'	-1918	+23'
Atoka	4969	-2002	4969'	-2002	-2030	+28'	-2030	+28
Morrow Shale	5145	-2178	5143'	-2176	-2213	+37'	-2226	+50'
Morrow SS	5196	-2229	5204'	-2237	-2288 (Diff SS)	---	-2348 (Diff SS)	---
Chester	5285	-2318	5283'	-2316	-2365	+49'	-2373	+57'
Chester SS	Absent		Absent		Absent		-2453	
St. Genevieve	5366	-2399	5349'	-2382	-2450	+68'	-2464	+82'
St. Louis	5472	-2505	5482'	-2515	-2542	+27'	-2562	+47'
St. Louis B	5508	-2541	5510'	-2543	-2558	+15'	-2576	+33'
St. Louis C	Absent		Absent		-2620		-2643	
St. Louis D	Absent		Absent		-2660		-2688	
RTD	5636'		5640'					

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