

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 119-209980000

County Meade

180' W S/2 - SE - SW - Sec. 16 Twp. 31S Rge. 30 X E

330' Feet from SW (circle one) Line of Section

1800' Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Zimmerman Well # 1-16

Field Name WC

Producing Formation NONE

Elevation: Ground 2760' est KB 2765' est

Total Depth 6000' PBTD

Amount of Surface Pipe Set and Cemented at 1662' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan P4-A, 5-10-99 UC.
(Data must be collected from the Reserve Pit)

Chloride content 27,000 ppm FV (in volume) 1,300 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: MAY 03 1999

Operator Name _____

Lease Name _____ License WICHITA, KS

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 32439

Name: Miller Energy, Inc.

Address 7900 Moorsbridge Road

City/State/Zip Portage, MI 49024

Purchaser: _____

Operator Contact Person: Mike Miller

Phone (616) 324-3390

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

3-29-99 4-11-99 4-12-99

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Michael Miller

Title President, Miller Energy, Inc Date _____

Subscribed and sworn to before me this 30th day of April, 19 99.

Notary Public April D. Davis, Kalamazoo Co., Michigan

Date Commission Expires 1/24/2002

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

ORIGINAL

SIDE TWO

Operator Name Miller Energy, Inc.

Lease Name Zimmerman

Well # 1-16

Sec. 16 Twp. 31S Rge. 30

East

County Meade

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run:

CNL/Den 0 - 6,000'
DIL/ML/Sonic 1,660-6,000'

Log Formation (Top), Depth and Datums Sample

Name Top Datum

See Attached Sheet

CASING RECORD New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24#	1662'	Lite	525	3% cc
					Class A	150	3% cc

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Amount	Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SMD or Inj. *P&A* Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil *N-A* Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perf. Dually Comp. Commingled

Other (Specify)

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Est Bend

3-30-99

3-31-99

DATE 3-31-99	SEC. 16	TWP. 31	RANGE 30	CALLED OUT 7:30 PM	ON LOCATION 12:30 AM	JOB START 7:50 AM	JOB FINISH 9:20 AM
LEASE ZIMMERMAN	WELL # 1-16	LOCATION Plains - 54 + 160 Sect - 1/4 W, 5N			COUNTY Meade	STATE Ks	
OLD OR <u>NEW</u> (Circle one)			To Road J, 3/1 E, 1/2 S				

CONTRACTOR Abercrombie Rig #4
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4" T.D. 11663'
 CASING SIZE 8 5/8" (new 24#) DEPTH 11663'
 TUBING SIZE _____ DEPTH _____
 DRILL-PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 600# hand plug MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 39.70'
 CEMENT LEFT IN CSG. 39.70'
 PERFS. _____
 DISPLACEMENT 104 1/4 bbls

OWNER Miller Energy, Inc.
 CEMENT
 AMOUNT ORDERED 525 lbs Lite, 3% cc,
1/4" flared/sh - 150 lbs common 3% cc,

EQUIPMENT
 PUMP TRUCK CEMENTER Tenn D
 # 181 HELPER Bob B
 BULK TRUCK
 # 257-250 DRIVER Kevin B
 BULK TRUCK
 # 340- DRIVER Mark B - Rich W.

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____

REMARKS:
Ran 11663' of 8 5/8" cas. Break circulation.
Mixed 525 lbs Lite 3% cc, 1/4" flared/sh
followed by 150 lbs class A, 3% cc.
Released plug. Displaced with fresh
H₂O. Landed plug at 600#.
Cement did circulate.

TOTAL _____
 SERVICE
 DEPTH OF JOB 11663'
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG 1-8 5/8" Rubber @ _____
 _____ @ _____
 _____ @ _____

RECEIVED
 KANSAS CORPORATION COMMISSION
 MAY 03 1999
 CONSERVATION DIVISION
 WICHITA KS

CHARGE TO: Abercrombie, R.T.D.
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT
 1-8 5/8" Texas Pattern Guide @ _____
 1-8 5/8" AFU Lament @ _____
 2-8 5/8" Centrifuges @ _____
 1-8 5/8" Basket @ _____
 _____ @ _____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TOTAL _____
 TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE X Harry Fisher

SIGNATURE X Gary Fisher
 PRINTED NAME

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley

DATE <u>4/12/99</u>	SEC <u>16</u>	TWP. <u>31S</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION <u>5:00 PM</u>	JOB START <u>7:30 PM</u>	JOB FINISH <u>9:30 PM</u>
LEASE <u>Zimmerman</u>	WELL # <u>1-16</u>	LOCATION <u>Mains 5N 3/4E N1/4</u>			COUNTY <u>Meade</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Abercrombie #4

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 6000

CASING SIZE 5 7/8 DEPTH

TUBING SIZE 4 1/2 16.6" DEPTH 1670

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 150 MINIMUM 50

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT AMOUNT ORDERED 115 sks 60/40 + 6700-1

COMMON	<u>69 sks</u>	@	<u>7.55</u>	<u>520.95</u>
POZMIX	<u>46 sks</u>	@	<u>3.25</u>	<u>149.50</u>
GEL	<u>6 sks</u>	@	<u>9.50</u>	<u>57.00</u>
CHLORIDE		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>115</u>	@	<u>1.05</u>	<u>120.75</u>
MILEAGE	<u>115 x .04 x 34</u>			<u>156.40</u>

TOTAL 1004.60

EQUIPMENT

PUMP TRUCK CEMENTER Max

300 HELPER Wayne

BULK TRUCK DRIVER Walt

218

BULK TRUCK DRIVER

#

REMARKS:

SERVICE

50 sks @ 1690 FT

40 sks @ 600 FT

10 sks @ 40 FT

15 sks in Rat Hole

DEPTH OF JOB 1690

PUMP TRUCK CHARGE 470.00

EXTRA FOOTAGE @

MILEAGE 34 mi @ 2.85 96.90

PLUG Dry Hole @ 23.00

@

@

TOTAL 559.90

CHARGE TO: Miller Energy Inc

STREET 2900 Maarsbridge Road

CITY Portage STATE Mi ZIP 49024

RECEIVE FLOAT EQUIPMENT
KANSAS CORPORATION COMMISSION

MAY 03 1999 @

@

@

CONSERVATION DIVISION @

WICHITA, KS @

@

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Harry Johnson

TOTAL _____

TAX _____

TOTAL CHARGE 1594.50

DISCOUNT 318.90 IF PAID IN 30 DAYS

PRINTED NAME Gary Fisher

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 03 1999

CONSERVATION DIVISION
WICHITA, KS

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**Miller Energy, Inc.
Zimmerman 1-16
Meade Co., KS
Drillstem Tests**

- DST #1: 5368-5530' Morrow/Chester
OP 30, SI 60, OP 60, SI 120. Initial open with 2" blow, BOB in 5". No GTS. Second open slightly strong blow throughout. No GTS.
IHP 2783, IFP 196-196, ISIP 807, FFP 196-196, FSIP 1519, FHP 2772
Rec 135 SGCM. BHT 122 deg.
- DST #2: 5765-5790' St. Louis
OP 30, SI 60, OP 60, SI 120. Initial open very weak blow throughout. Second open ¼", built to 1" in 30 min for remainder of period.
IHP 2874, IFP 4-4, ISIP 142, FFP 31-27, FSIP 228, FHP 2760
Rec 30' SOCM. Sample chamber 2000 ml oil, 3000 ml mud, 2.9 cfg @ 200 psi. BHT 128 deg.
- DST #3: 5830-5862' St. Louis
OP 30, SI 60, OP 30, SI 60. Initial open with weak blow, died in 12". Second open no blow.
IHP 2900, IFP 40-40, ISIP 47, FFP 40-40, FSIP 40, FHP 2886
Rec 10' VSOCM. Sample chamber 140 ml oil, 3360 ml mud, .75 cfg @ 45 psi. BHT 127 deg.
- DST #4: 5888-5935' St. Louis
OP 30, SI 60, OP 90, SI 120. Initial open built to 1 ¼" in 30 min. Second open built to 4 ½" in 90 min.
IHP 3007, IFP 75-75, ISIP 1794, FFP 166-166, FSIP 1786, FHP 3007
Rec 220' GIP, 80' OGCWM, 60' SOMCW. Sample chamber 100 ml oil, 4900 ml water, 5.6 cfg @ 380 psi. BHT 133 deg.

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 03 1999

CONSERVATION DIVISION
WICHITA, KS

**Miller Energy, Inc.
Zimmerman 1-16
Meade Co., KS
E-Log tops**

<u>Formation</u>	<u>Top</u>	<u>Datum</u>
Krider	2664	(+101)
Council Grove	3052	(-287)
Heebner	4250	(-1485)
Lansing	4359	(-1594)
Stark Shale	4778	(-2013)
Marmaton	4952	(-2187)
Cherokee Shale	5106	(-2341)
Morrow	5382	(-2617)
Chester	5426	(-2661)
St. Genevieve	5620	(-2855)
St. Louis	5717	(-2952)
Spergen	5919	(-3164)

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 03 1999

CONSERVATION DIVISION
WICHITA, KS

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

MAY 03 1999

CONSERVATION DIVISION
WICHITA, KS

ZIMMERMAN #1-16
330' FSL & 1800' FWL
SECTION 16-31S-30W
MEADE CO., KS

OPERATOR: MILLER ENERGY, INC.
CONTRACTOR: Abercrombie RTD, Inc.
RIG #:4
JOB #: 9904003

MILLER ENERGY, INC.
7900 MOORSBRIDGE ROAD
PORTAGE, MI 49024
(616)-324-3390

ELEVATION: GL
KB

API #15-119-209980000

PAGE 1

- 03-26-99 Begin site preparation.
- 03-27-99 Set 38' of 20" conductor, cemented with 4 yards cement. Begin moving company tools on location.
- 03-29-99 Finish moving in, rig up and spud.
- 03-30-99 880' - Drilling. Drilled 842' - 24 hrs, drilling 10 3/4 hrs, tripping 1/2 hr, jet pit 1/4 hr, wireline 1/2 hr, repair 2 hrs, drilled rathole 3/4 hr, PU collars 3/4 hr, RU 8 1/2 hrs. Bit #1, 12 1/4", Varel L117, SN: 139616, in at 38'. Cut 842' - 10 3/4 hrs. Mud weight 9.4, Viscosity 35, LCM 4#. Contacted Michelle at KCC at 3:30 p.m. on 3-26-99. Spud at 4:15 p.m. on 3-29-99. Daily mud \$1,080.75, Accum. Mud \$1,080.75. Mud mix: gel 75 sks, lime 6 sks, hulls 60 sks. Deviation 3/4° at 597'. Bit weight 15/18,000, 500# pump, rot 140, SPM 60.
- 03-31-99 1663' - Running casing. Drilled 783' - 24 hrs, drilling 14 hrs, tripping 3 1/4 hrs, rig check 3/4 hr, jet pit 1/4, circulate 1 1/4 hrs, run casing 1 1/4 hrs, repairs - mud pump 3 1/4 hrs. Bit #1, 12 1/4", Varel L117, SN: 139616, in at 38' out at 1663'. Cut 1625' - 24 3/4 hrs. Mud weight 9.4, Viscosity 34, LCM 5#. Daily mud \$21.00, Accum. Mud \$1,118.25. Mud mix: lime 3 sks. Deviation 0° at 1663'. Bit weight 20,000, 800# pump, rot 140, SPM 62.
- 04-01-99 2065' - Drilling. Drilled 402' - 24 hrs, drilling 7 1/2 hrs, rig check 1/4 hr, circulate 1/2 hr, run casing 3/4 hr, cementing 1 hr, repair 1/2 hr, WOC 12 hrs, drill plug 3/4 hr, check BOP 3/4 hr. Bit #1, 7 7/8", Smith F271, SN: LT8001, in at 1663'. Cut 402' - 7 1/2 hrs. Mud weight 8.8, Viscosity 29. Daily mud \$.00, Accum. Mud \$1,118.35. Mud mix: gel 32 sks. Bit weight 35,000, 1,000# pump, rot 80, SPM 54. Ran 37 jts new 24# 8 5/8" J55 casing. Tally 1653.16', set at 1662', cemented w/525 sks lite, 3% cc, 150 sks Class A 3% cc. Cement did circulate. Plug down @ 9:15 a.m. on 3-31-99. Cemented by Allied.
- 04-02-99 2730' - Drilling. Drilled 665' - 24 hrs, drilling 15 hrs, rig check 1/2 hr, jet pit 3/4 hr, repair 7 3/4 hrs. Bit #1, 7 7/8", Smith F271, SN: LT8001, in at 1663'. Cut 1067' - 22 1/2 hrs. Mud weight 9.4, Viscosity 28. Daily mud \$243.40, Accum. Mud \$1,361.65. Mud mix: gel 96 sks. Bit weight 35,000, 1,000# pump, rot 80, SPM 56.
- 04-03-99 3565' - Drilling. Drilled 835' - 24 hrs, drilling 21 hrs, rig check 3/4 hr, jet pit 1/2 hr, circulate 1 hr, repair 3/4 hr. Bit #1, 7 7/8", Smith F271, SN: LT8001, in at 1663'. Cut 1902' - 43 1/4 hrs. Mud weight 8.8, Viscosity 38, PV/YP 6/16, gels 9/12, water loss 29.6, pH 7.0, chlorides 6,000, solids 3.5%, sand-tr. Daily mud \$667.20, Accum. Mud \$2,028.85. Mud mix: gel 160 sks, caustic 6 sks, soda ash 6 sks, lignite 4 sks, hulls 15 sks. Bit weight 38,000, 1,000# pump, rot 80, SPM 52.
- 04-04-99 3957' - Drilling. Drilled 392' - 24 hrs, drilling 13 1/4 hrs, tripping 4 hrs, rig check 3/4 hr, jet pit 1 hr, circulate 1 1/2 hrs, wireline 1/4 hr, repair to BOP 1 1/2 hrs, other 3/4 hr, time change 1 hr. Bit #1, 7 7/8", Smith F271, SN: LT8001, in at 1663' out at 3917'. Cut 2254' - 55 hrs. Bit #2, 7 7/8", Smith F271, SN: LT8003, in at 3917'. Cut 40' - 1 1/2 hrs. Mud weight 8.8, Viscosity 48, PV/YP 5/21, gels 6/16, water loss 10.0, pH 7.0, chlorides 8,000, solids 4.5%, sand-tr, LCM 2#. Daily mud \$2,114.90, Accum. Mud \$4,143.75. Mud mix: gel 83 sks, caustic 6 sks, soda ash 4 sks, lignite 3 sks, hulls 15 sks. Deviation 1° at 3917'. Bit weight 40,000, 1,000# pump, rot 80, SPM 60.

ABERCROMBIE RTD, INC.

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

MAY 03 1999

CONSERVATION DIVISION
WICHITA, KS.ZIMMERMAN #1-16
330' FSL & 1800' FWL
SECTION 16-31S-30W
MEADE CO., KSOPERATOR: MILLER ENERGY, INC.
CONTRACTOR: Abercrombie RTD, Inc.
RIG #:4
JOB #: 9904003MILLER ENERGY, INC.
7900 MOORSBRIDGE ROAD
PORTAGE, MI 49024
(616)-324-3390ELEVATION: GL
KB

API #15-119-209980000

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- 04-05-99 4637' - Drilling. Drilled 680' - 24 hrs, drilling 23 1/4 hrs, rig check 3/4 hr. Bit #2, 7 7/8", Smith F271, SN: LT8003, in at 3917'. Cut 720' - 24 3/4 hrs. Mud weight 8.7, Viscosity 49, PV/YP 13/11, gels 7/23, water loss 8.8, pH 10.5, chlorides 3,000, solids 2.7%, sand-tr, LCM 1#. Daily mud \$1,110.45, Accum. Mud \$5,254.20. Mud mix: gel 40 sks, caustic 8 sks, soda ash 2 sks, lignite 3 sks, drispac 1 sks, hulls 5 sks. Bit weight 40,000, 1,000# pump, rot 80, SPM 56.
- 04-06-99 5066' - CFS. Drilled 429' - 24 hrs, drilling 20 1/2 hrs, rig check 3/4 hr, jet pit 1/2 hr, circulate 1 hr, repair mud pump and BOP 1 1/4 hrs. Bit #2, 7 7/8", Smith F271, SN: LT8003, in at 3917'. Cut 1149' - 45 1/4 hrs. Mud weight 9.0, Viscosity 51, PV/YP 13/17, gels 7/21, water loss 9.6, pH 11.0, chlorides 2,500, solids 5.6%, sand-tr, LCM 3#. Daily mud \$831.09, Accum. Mud \$6,085.29. Mud mix: caustic 6 sks, lignite 2 sks, hulls 40 sks. Bit weight 40,000, 1,000# pump, 80 rot, SPM 56.
- 04-07-99 5435' - Drilling. Drilled 369' - 24 hrs, drilling 20 1/2 hrs, rig check 3/4 hrs, circulate 2 3/4 hrs. Bit #2, 7 7/8", Smith F271, SN: LT8003, in at 3917'. Cut 1518' - 65 3/4 hrs. Mud weight 9.2, Viscosity 50, PV/YP 12/18, gels 11/24, water loss 8.8, pH 10.5, chlorides 2,000, solids 6.0%, sand-tr, LCM 3#. Daily mud \$981.70, Accum. Mud \$7,066.99. Mud mix: gel 60 sks, caustic 7 sks, soda ash 2 sks, lignite 1 sk, hulls 54 sks. Bit weight 42,000, 1,000# pump, rot 80, SPM 56.
- 04-08-99 5530' - TIH after DST #1. Drilled 95' - 24 hrs, drilling 5 hrs, tripping 9 1/2 hrs, rig check 1/4 hr, circulate 4 3/4 hrs, testing 4 1/2 hrs. Bit #2, 7 7/8", Smith F271, SN: LT8003, in at 3917'. Cut 1613 - 70 3/4 hrs. Mud weight 9.3, Viscosity 53, PV/YP 15/19, gels 12/24, water loss 8.8, pH 10.5, chlorides 2,000, solids 6.8%, sand-tr, LCM 2#. Daily mud \$751.95, Accum. Mud \$7,818.94. Mud mix: gel 35 sks, caustic 3 sks, soda ash 1 sk, hulls 5 sks. Deviation 1/4° at 5530'. Bit weight 42,000, 1,000# pump, rot 80, SPM 56. Pipe strap @ 5530', strap short .79'.
- 04-09-99 5790' - DST #2. Drilled 260' - 24 hrs, drilling 16 1/4 hrs, tripping 3 3/4 hrs, rig check 1/2 hrs, circulate 2 1/4 hrs, mud pump repairs 1 1/4 hrs. Bit #2, 7 7/8", Smith F271, SN: LT8003, in at 3917'. Cut 1873' - 87 hrs. Mud weight 9.2, Viscosity 54, PV/YP 14/20, gels 15/26, water loss 8.0, pH 10.0, chlorides 2,500, solids 6.7%, sand-tr, LCM 2#. Daily mud \$361.80, Accum. Mud \$8,180.74. Mud mix: gel 33 sks, caustic 7 sks, soda ash 1 sk, lignite 1 sk, hulls 30 sks. Bit weight 42,000, 1,000# pump, rot 80, SPM 56.
- 04-10-99 5862' - TOH DST #3. Drilled 72' - 24 hrs, drilling 6 1/4 hrs, tripping 11 hrs, rig check 1/4 hr, circulate 2 hrs, testing 4 1/2 hrs. Bit #2, 7 7/8", Smith F271, SN: LT8003, in at 3917' out at 5790'. Cut 1873' - 87 hrs. Bit #3, 7 7/8", Walker Mac, 52CHF, SN: 020427, in at 5790'. Cut 72' - 6 1/4 hrs. Mud weight 9.2, Viscosity 50, PV/YP 17/16, gels 10/23, water loss 8.8, pH 10.5, chlorides 2,000, solids 6.0%, sand-tr, LCM 4#. Daily mud \$867.20, Accum. Mud \$9,047.94. Mud mix: caustic 2 sks. Bit weight 42,000, 1,000# pump, rot 80, SPM 56.

ORIGINAL

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 03 1999

ABERCROMBIE RTD, INC.

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

CONSERVATION DIVISION
WICHITA, KS

OPERATOR: MILLER ENERGY, INC.
CONTRACTOR: Abercrombie RTD, Inc.
RIG #:4
JOB #: 9904003

ZIMMERMAN #1-16
330' FSL & 1800' FWL
SECTION 16-31S-30W
MEADE CO., KS

MILLER ENERGY, INC.
7900 MOORSBRIDGE ROAD
PORTAGE, MI 49024
(616)-324-3390

ELEVATION: GL
KB

API #15-119-209980000

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- 04-11-99 6000' - CFS. Drilled 138' - 24 hrs, drilling 9 1/2 hrs, tripping 10 1/4 hrs, rig check 1/4 hr, circulate 1 hr, testing 3 hrs. Bit #3, 7 7/8", Walker Mac, 52CHF, SN: 020427, in at 5790' out at 6000'. Cut 210' - 15 3/4 hrs. Mud weight 9.3, Viscosity 56, PV/YP 15/16, gels 12/25, water loss 8.8, pH 10.0, chlorides 2,500, solids 6.1%, sand-tr, LCM 2#. TD reached on 4/11/99 at 6:00 a.m. Daily mud \$64.55, Accum. Mud \$9,112.49. Chloride 27,000, calcium 1,060, volume 1,300. Mud mix: caustic 4 sks. Bit weight 42,000, 1,000# pump, rot 80, SPM 56.
- 04-12-99 6000' - DST #4. Tripping 3 hrs, circulate 1 hr, testing 6 3/4 hrs, logging 11 1/4 hrs, wait on tester 2 hrs. Daily mud \$157.80, Accum. Mud \$9,270.29. Deviation 1/2° at 6000'.
- 04-13-99 6000' - Move rig. Trip 5 1/2 hrs., testing 1 1/2 hrs., lay down pipe 3 hrs., plugging 2 1/2 hrs., tear down 3 1/2 hrs., wait on cement 2 hrs. 1st Plug @ 1690' w/50 sks., 2nd plug @ 600' w/40 sks., 3rd plug @ 40' w/10 sks., 15 sks. In rathole. Total 115 sks., 60/40 pos., 6% gel. Cemented by Allied. Plug down @ 9:30 p.m. 04/12/99.

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MAY 03 1999

CONSERVATION DIVISION
WICHITA, KS