

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

API NO. 15-109-20,591-~~000~~ **ORIGINAL**

County Logan
Approx. NW - NW - NW Sec. 22 Twp. 12S Rge. 33 W XX W

Operator: License # 5393

400' Feet from S (N) (circle one) Line of Section

Name: A.L. Abercrombie, Inc.

400' Feet from E (W) (circle one) Line of Section

Address 150 N. Main, Suite 801

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

City/State/Zip Wichita, Ks. 67202

Lease Name MILLER Well # 3

Purchaser: _____

Field Name Owen-East

Operator Contact Person: Jack K. Wharton

Producing Formation Mississippi

Phone (316) 262-1841

Elevation: Ground 3075' KB 3080'

Contractor: Name: Abercrombie RTD, Inc.

Total Depth 4770' PBD 4368'

License: 30684

Amount of Surface Pipe Set and Cemented at 362.70' Feet

Wellsite Geologist: Steve Davis

Multiple Stage Cementing Collar Used? X Yes _____ No

Designate Type of Completion

If yes, show depth set 1719' Feet

XX New Well _____ Re-Entry _____ Workover

If Alternate II completion, cement circulated from 1719'

XX Oil _____ SWD _____ SLOW _____ Temp. Abd.

feet depth to Surface w/ 425 sx cmt.

_____ Gas _____ ENHR _____ SIGW

Drilling Fluid Management Plan ALT 2 JH 4-2-96
(Data must be collected from the Reserve Pit)

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

If Workover:

Chloride content 20,000 ppm Fluid volume 1285 bbls

Operator: _____

Dewatering method used Evaporation

Well Name: _____

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD

Operator Name _____

_____ Plug Back _____ PBD

Lease Name _____ License No. _____

_____ Commingled _____ Docket No. _____

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

_____ Dual Completion _____ Docket No. _____

County _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

8-2-95 8-13-95 9-25-95

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 Jack K. Wharton Jack K. Wharton

Title Vice President Date 10-03-95

Subscribed and sworn to before me this 3rd day of October, 19 95.

Notary Public Rose Marie Smith

Date Commission Expires 11-8-98

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received

RECEIVED

Distribution

STATE CORPORATION COMMISSION SWD/Rep _____ NGPA _____

Plug _____ Other _____ (Specify)

OCT 5 1995



CONSERVATION DIVISION
Wichita, Kansas

10-05-1995

Form ACO-1 (7-91)

Operator Name A.J. Abercrombie, Inc. Lease Name MILLER Well # 3
 Sec. 22 Twp. 12S Rge. 33W East County Logan
 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run:				

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> 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"	28#	362.70'	60/40 pos	210 sks	2% gel, 3% CC
Production String	7 7/8"	4 1/2"	10 1/2#	4412.78'	50/50 pos Common BA29	75 sks 150 sks	2% gel, 3/4 of 1% 7# gilsonite per
D.V. Tool				1719'	Allied Lite	425 sks	/

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

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) Depth	
	4	4268'-4271'	500 gals 15% MCA	4368'
4	4241'-4247'	1000 gals 15% INS & 200# plug	4262'	
4	4176'-4178' & 4190'-4195'	1500 gals 15% INS	4225'	

TUBING RECORD Size 2 3/8 Set At 4364 Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. September 28th, 1995 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. <u>50</u>	Gas Mcf	Water Bbls. <u>49</u>	Gas-Oil Ratio	Gravity
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Disposition of Gas: METHOD OF COMPLETION Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval 4268'-4271'
4241'-4247'
4176'-4178'
4190'-4195'

RECEIVED
KANSAS CORP COMM
1996 APR -2 P 1:26

ABERCROMBIE RTD, INC.
150 N. MAIN, SUITE 801
WICHITA, KANSAS 67202

ORIGINAL

MILLER #3

Approx. NW NW NW
Sec. 22-12S-33W
Logan County, Ks.

OPERATOR: A.L. Abercrombie, Inc.
CONTRACTOR: Abercrombie RTD, Inc.
RIG #: 8
JOB #: 9508016

A.L. Abercrombie, Inc.
150 N. Main
Wichita, Ks.
(316) 262-1841

ELEVATION: GL '
KB '
API #15-109-20,591-00-00

Page 1

- 08-01-95 Site Preparation.
- 08-02-95 Moving in, rigging up and will spud.
- 08-03-95 367' waiting on cement. Cut 367'-24 hrs., drilling 4 1/4 hrs., circulate 1/2 hr., run casing 1 1/2 hrs., rig up 9 3/4 hrs., cementing 1/2 hr., waiting on cement 7 1/2 hrs. Bit #1, 12 1/4" Hughes J15, SN787BN, in at 0', out at 367', cut 367'-4 1/4 hrs. Mud weight 9.0, viscosity 42, native mud. Contacted Ken Kuhn-KCC, Hays at 9:00 a.m. on 8-2-95. Spud at 4:45 p.m. on 8-2-95. Daily mud \$274.04, accumulative mud \$274.04. Mud mix-gel 53 sks, hulls 18 sks, lime 5 sks. Deviation 1/2°-367'. Bit weight all, 700# pump, rot 120, spm 56. Ran 9 joints of used 8 5/8", 28# casing, tally 354.70', set at 362.70'. Cemented with 210 sks 60/40 pos, 2% gel, 3% CC. Cemented by Allied, cement did circulate. Plug down at 11:30 p.m. on 8-2-95. Will drill plug at 7:30 a.m. on 8-3-95. Anhydrite 2563' to 2585'
- 08-04-95 2380' drilling. Cut 2013'-24 hrs., drilling 22 1/4 hrs., rig check 1/2 hr., jet pit 3/4 hr., waiting on cement 1/2 hr. Bit #1, 7 7/8", Sec. S83F, SN668723(RR), in at 367', cut 2013'-22 1/4 hrs. Mud weight 9.1, viscosity 30, native mud. Accumulative mud \$274.04. Mud mix-gel 28 sks, hulls 10 sks, lime 1 sk. Bit weight 30,000#, 1000# pump, rot 80, spm 56.
- 08-05-95 3333' drilling. Cut 953'-24 hrs., drilling 20 1/2 hrs., trip 2 1/4 hrs., rig check 3/4 hr., jet pit 1/2 hr. Bit #1 Sec. S83F, SN668723(RR), in at 367', out at 2644', cut 2277'-26 1/2 hrs. Bit #2 Sec. S83F, in at 2644', cut 689'-16 1/4 hrs. Mud weight 9.2, viscosity 30, native mud. Daily mud \$422.32, accumulative mud \$696.30. Mud mix-gel 105 sks, caustic 6 sks, soda ash 6 sks, hulls 3 sks, lignite 3 sks, drispac 1 sk. Deviation 1°-2644'. Bit weight 35,000#, 1000# pump, rot 80, spm 56. Pipe strap at 2644', strap short.62.
- 08-06-95 4010' drilling. Cut 677'-24 hrs., drilling 21 hrs., rig check 1/2 hr., jet pit 3/4 hr., circulate 1/2 hr., mud pump repairs 1 1/4 hr. Bit #2 Sec. S83F, SN668716, in at 2644', cut 1366'-37 1/4 hrs. Mud weight 8.9, viscosity 45, p/vis 8/18, gels 7/20, water loss 9.6, pH 10.5, chlorides 2000, solids 2.7%, t/sand, 1# LCM. Daily mud \$2,053.40, accumulative mud \$2,749.76. Mud mix-gel 58 sks, caustic 4 sks, soda ash 3 sks, hulls 5 sks, lignite 2 sks. Bit weight 35,000#, 1000# pump, rot 80, spm 56.

ABERCROMBIE RTD, INC.

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CONTRACTOR: Abercrombie RTD, Inc.
RIG #: 8
JOB #: 9508016

A.L. Abercrombie, Inc.
150 N. Main
Wichita, Ks.
(316) 262-1841

ELEVATION: GL '
KB '

API #15-109-20,591 00-00

08-07-95

4109' coming out of hole for DST #2. Cut 99'-24 hrs., drilling 4 3/4 hrs., trip 3/4 hr., rig check 1/4 hr., circulate 6 hrs., testing 12 1/4 hrs. Bit #2 Sec. S83F, SN668716, in at 2644', cut 1465'-42 hrs. Mud weight 9.0, viscosity 46, p/vis 11/16, gels 11/22, water loss 9.6, pH 9.5, chlorides 2000, solids 4.8%, t/sand, t/LCM. Daily mud \$39.45, accumulative mud \$2,985.11. Mud mix-caustic 2 sks. Deviation 3/4°-4020'. Bit weight 35,000#, 1000# pump, rot 80, spm 56. Pipe strap at 4020', strap short .74.

Page 2

DST #1 3984' to 4020' (Toronto)

30-45-60-45

weak blow throughout (1/2 inch in bucket)

Rec 10' mud, 120' water with few oil spts.

Chlorides 28,000 ppm

IFP 20-30 ISIP 1177'

FFP 50-71 FSIP 1117'

Heebner 3985' (-905')

Toronto 4012' (-932')

Lansing 4027' (-947')

Muncie Creek 4171' (-1094')

DST #2 4097' to 4109' (E & F Zones)

30-45-60-45

Weak blow in or throughout

Rec: 10' oil, 382' water (36,000 ppm)

IFP 40-71# ISIP 758

FFP 121-193# FSIP 578

08-08-95

4202' going in hole after DST #3. Cut 93'-24 hrs., drilling 3 3/4 hrs., rig check 1/4 hr., circulate 2 hrs., testing 17 1/2 hrs., repairs 1/2 hr. Bit #2 Sec. S83F, SN668716, in at 2644', cut 1558'-45 3/4 hrs. Mud weight 9.0, viscosity 52, p/vis 11/16, gels 11/22, water loss 9.6, pH 9.5, chlorides 2000, solids 4.8%, t/sand, t/LCM. Daily mud \$39.45, accumulative mud \$2,985.11. Mud mix-caustic 1 sk. Bit weight 35,000#, 1000# pump, rot 80, spm 56.

DST #3 4172' to 4202' ('H' Zone)

30-45-60-45

Blow off bottom in 10"

Rec: 360' GIP

350' CGO (37°)

80' OCM (20% oil) 29,000 ppm

62' SOLMW (80% water) 2,000 ppm

IFP 40-91# ISIP 376

FFP 152-172# FSIP 376

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Logan County, Ks.

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RIG #: 8
JOB #: 9508016

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ELEVATION: GL '
KB '

API #15-109-20,591 -00-00

08-09-95

4252' bottom with DST #5. Cut 50'-24 hrs., drilling 3 hrs., circulate 4 hrs., testing 17 hrs. Bit #2 Sec. S83F, in at 2644', cut 1608'-48 3/4 hrs. Mud weight 8.9, viscosity 52, p/vis 12/11, gels 11/26, water loss 11.2, pH 10.5, chlorides 3400, solids 6.2%, t/sand. Daily mud \$39.45, accumulative mud \$3,024.56. Mud mix-caustic 1 sk. Bit weight 35,000#, 1000# pump, rot 80, spm 56.

Page 3

DST #4 4208'-4234' ('I' Zone)

30-45-60-45

Blow off bottom 12"

Rec: 30' GIP

30' OSWM

559' WTR (36,000 ppm)

IFP 30-151# ISIP 273#

FFP 182-232# FSIP 273#

DST #5 4237' - 4252'

30-45-60-45

Blow off bottom in 1"

Rec: 1829' GIP

744' CGO (40° gravity)

62' GMCO (70% oil)

62' HOCM (20% oil)

IFP 101-182# ISIP 325#

FFP 254-284# FSIP 325#

08-10-95

4330' drilling. Cut 78'-24 hrs., drilling 4 1/2 hrs., circulate 3 3/4 hrs., testing 15 3/4 hrs. Bit #2 Sec. S83F, SN668716, in at 2644', cut 1686'-53 1/4 hrs. Mud weight 9.2, viscosity 53, p/vis 13/20, gels 14/23, water loss 11.2, pH 10.5, chlorides 4000, solids 6.2%. Daily mud \$39.45, accumulative mud \$3,064.01. Mud mix-caustic 1 sk. Bit weight 35,000#, 1000# pump, rot 80, spm 56.

Huspuckney 4294' (-1214')

DST #6 4256' - 4278' (Lansing 'K' Zone)

30-45-60-45

Rec: 410' GIP

70' CGO

62' HOCM (25% oil)

62' SOCWM (2% oil, 25% water)

IFP 30-40# ISIP 457

FFP 60-71# FSIP 447

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08-11-95

4526' circulating after DST #7. Cut 196'-24 hrs., drilling 8 3/4 hrs., rig check 1/4 hr., circulate 2 3/4 hrs., testing 10 3/4 hrs., air line broke on drawworks repairs 1 1/2 hrs. Bit #2 Sec. S83F, SN668716, in at 2644', cut 1882'-62 hrs. Mud weight 9.0, viscosity 53, p/vis 13/15, gels 17/23, water loss 12.0, pH 10.5, chlorides 3000, solids 6.0%. Daily mud \$96.40, accumulative mud \$3,160.41. Mud mix-caustic 1 sk, lignite 1 sk. Bit weight 35,000#, 1000# pump, rot 80, spm 56.

Page 4

B/KC 4338' (-1258')
Pawnee 4456' (-1376')
Ft. Scott 4516' (-1436')
Cherokee Shale 4545' (-1465')

DST #7 4487'-4526'

30-45-60-45

Rec: 1' CO

80' OSM

60' WM

120' W (38,000 ppm)

IFP 28-45# ISIP 820#

FFP 72-123# FSIP 787#

08-12-95

4700' drilling. Cut 174'-24 hrs., drilling 9 3/4 hrs., jet pit 1/4 hr., circulate 4 hrs., testing 10 hrs. Bit #2 Sec. S83F, SN668716, in at 2644', cut 2056'- 71 3/4 hrs. Mud weight 9.2, viscosity 53, p/vis 14/14, gels 19/29, water loss 12.0, pH 10.0, chlorides 4000, solids 6.9%. Accumulative mud \$3,160.40. Pit chloride 20,000, calcium 1960, volume 1285. Deviation 1°-4600'. Bit weight 35,000#, 1000# pump, rot 80, spm 56.

08-13-95

4770' RTD, running production casing. Cut 70'-24 hrs., drilling 4 hrs., trip 2 hrs., circulate 4 1/2 hrs., logging 5 3/4 hrs., run casing 3/4 hr., cellar work 1 hr., laydown pipe 3 1/2 hrs., waiting on orders 2 1/2 hrs. Bit #2 Sec. S83F, SN668716, in at 2644', out at 4770', cut 2126'-73 hrs. Mud weight 9.4, viscosity 48, p/vis 11/15, gels 15/22, water loss 12.8, pH 9.5, chlorides 3300, solids 7.7%. TD at 12:30 p.m. on 8-12-95. Daily mud \$17.60, accumulative mud \$3,178.01. Mud mix-hulls 4 sks. Bit weight 38,000, 1000# pump, rot 80 spm 56. Pipe strap at 4770', strap short .05. Logger's TD 4772'.

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*****TIGHT HOLE*****

08-14-95

Circulate 1 hr., run casing 1 hr., teardown 9 hrs., cementing 2 hrs.
Accumulative mud \$3,178.01. Ran 105 joints of new & used 4
1/2", 10 1/2# casing, tally 4407.78', set at 4412.78'. Cemented
bottom stage with 500 gals of mud sweep, 75 sks 50/50 pos, 2%
gel, 3/4 of 1% CFR, 7# of gilsonite per sk, followed with 150 sks of
common, BA29. Plug down at 10:00 a.m. on 8-13-95. Cemented
top stage with 425 sks, lite wet cement. Plug down at 11:00 a.m.
on 8-13-95. DV tool at 1720.50'.

DST #8 4565'-4600' (Johnson Zone)
30-45-30-45
Rec: 10' mud with oil spts.
IFP 10-12# ISIP 598#
FFP 16-16# FSIP 130#

Anhydrite 2561'
Base Anhydrite 2583'
Heebner 3983' (-903')
Toronto 4010' (-930')
Lansing 4028' (-948')
Muncie Creek 4172' (-1092')
Stark Shale 4255' (-1175')
BKC 4336' (-1256')
Pawnee 4456' (-1376')
Ft. Scott 4518' (-1421')
Cherokee Shale 4546' (-1466')
Johnson Zone 4590' (-1510')
Mississippian 4671' (1591')
Logger's TD 4772'
Driller's TD 4770'

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TIGHT HOLE

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08-14-95	Circulate 1 hr., run casing 1 hr., teardown 9 hrs., cementing 2 hrs. Accumulative mud \$3,178.01. Ran 105 joints of new & used 4 1/2", 10 1/2# casing, tally 4407.78', set at 4412.78'. Cemented bottom stage with 500 gals of mud sweep, 75 sks 50/50 pos, 2% gel, 3/4 of 1% CFR, 7# of gilsonite per sk, followed with 150 sks of common, BA29. Plug down at 10:00 a.m. on 8-13-95. Cemented top stage with 425 sks, lite wet cement. Plug down at 11:00 a.m. on 8-13-95. DV tool at 1720.50'. DST #8 4565'-4600' (Johnson Zone) 30-45-30-45 Rec: 10' mud with oil spts. IFP 10-12# ISIP 598# FFP 16-16# FSIP 130# Completed.	Anhydrite 2561' Base Anhydrite 2583' Heebner 3983' (-903') Toronto 4010' (-930') Lansing 4028' (-948') Muncie Creek 4172' (-1092') Stark Shale 4255' (-1175') BKC 4336' (-1256') Pawnee 4456' (-1376') Ft. Scott 4518' (-1421') Cherokee Shale 4546' (-1466') Johnson Zone 4590' (-1510') Mississippian 4671' (1591') Logger's TD 4772' Driller's TD 4770'
09-01-95	Move in and rig up cable tools.	
09-02-95	Idle.	
09-03-95	Idle.	
09-04-95	Idle.	
09-05-95	Swabbed down to 1600'. Make up tools, drilled D.V. tool at 1719'. Swabbed to bottom, bailed mud to hard bottom at approximately 4370'. Filled hole with salt water.	
09-06-95	Running bond log, preparing to perforate.	

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*****TIGHT HOLE*****

Page 6

09-07-95 Ran bond log from 4368' to 3450'. Swabbed down to 3900'.
Perforated 4 shots per foot 4268'-4271', swabbed down to 4368'.
Tested per hour from 4368':
.5 bbls fluid mud cut oil
.3 bbls fluid mud cut oil
.2 bbls fluid mud cut oil
4th hour dry.
This morning fluid level at 4100' KB. Swabbed 3.7 bbls 26% water,
swabbing down to 4368'. 1 hour test at 4365' .15 bbls mud cut oily
water. Acidized with 500 gallons of 15% MCA, maximum pressure
100#, finished on vacuum. Injection rate 2 bbls per minute, total
load 82 bbls. Swabbed 56.1 bbls swabbing down to 4368'. Tested
per hour from 4368':
7.4 bbls total fluid 65% water
9.2 bbls total fluid 65% water
7.4 bbls total fluid 50% water
5.5 bbls total fluid 37% water
4.6 bbls total fluid 34% water
4.6 bbls total fluid 32% water

09-08-95 Fluid 3700' KB. Swabbed 13.1 bbls 15% water, swabbing down to
4368'. Gravity 39.6 corrected. Set cast iron bridge plug at 4262',
swabbed down to 4262', 1 hour test dry. Dumped 7 bbls salt water
down casing, perforated 4 shots per foot with expendable gun
4241'-4247'. Swabbed 7.6 bbls total fluid with a show of oil
swabbing down to 4262'. Tested per hour from 4262':
6.6 bbls total fluid 38% water
5.1 bbls total fluid 30% water
5.0 bbls total fluid 30% water
5.0 bbls total fluid 30% water

09-09-95 Idle.

09-10-95 Idle.

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*****TIGHT HOLE*****

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- 09-11-95 Fluid level at 3000". Swabbed 21.7 bbls total fluid 4% water swabbing down to 4262'. 1 hour test 7.3 bbls total fluid 32% water. Acidized with 100 gallons 15% INS, 300# gelled salt plug, and 900 gallons 15% INS. Injection rate 6 1/2 bbls per minute at 200# friction pressure. Plug was 12 bbls late, when it hit. Pressure went to 900#, broke to 500#, finished at 550#, instantaneous shut in pressure 0#, overflushed with 12 bbls of salt water. Total load 111 bbls, swabbed 55.7 bbls with a show of oil swabbing down to 4262'. Tested per hour.
- 11.4 bbls total fluid 65% water
 - 11.3 bbls total fluid 60% water
 - 12.8 bbls total fluid 53% water
 - 12.9 bbls total fluid 54% water
- 09-12-95 Fluid level at 3400' KB. Swabbed 20.2 bbls total fluid 20% water, swabbing to 4262'. Tested per hour from 4262'.
- 12.4 bbls total fluid 38% water
 - 13.6 bbls total fluid 48% water
 - 11.4 bbls total fluid 54% water
 - 12.6 bbls total fluid 58% water
 - 12.0 bbls total fluid 47% water
 - 12.5 bbls total fluid 51% water
 - 12.0 bbls total fluid 57% water

ABERCROMBIE RTD, INC.

**150 N. MAIN, SUITE 801
WICHITA, KANSAS 67202**

ORIGINAL

MILLER #3

Approx. NW NW NW
Sec. 22-12S-33W
Logan County, Ks.

OPERATOR: A.L. Abercrombie, Inc.
CONTRACTOR: Abercrombie RTD, Inc.
RIG #: 8
JOB #: 9508016

A.L. Abercrombie, Inc.
150 N. Main
Wichita, Ks.
(316) 262-1841

ELEVATION: GL '
KB '
API #15-109-20,591 -00-00

*****TIGHT HOLE*****

- 09-13-95 Fluid level at 3550'. Set CIBP at 4225'. Swabbed 10 bbls total fluid 48% water, swabbing down to 4220'.
One half hour test dry.
 Perforated 1 shot at 4191 1/2'
 Perforated 1 shot at 4177'
One half hour test dry.
Acidized with 1500 gallons of 15% INS. Maximum pressure 2500#, broke to 1500#, instantaneous shut in pressure 400#, on vacuum in 15 minutes.
Average injection rate 5 bbls per minute. Total load 106 bbls.
Reperforated 4176' to 4178' & 4190' to 4195'. Swabbed 56.9 bbls, swabbing down to 4220'. Tested per hour from 4220'.
 10.7 bbls total fluid 48% water
 8.9 bbls total fluid 28% water
 8.05 bbls total fluid 30% water
 8.04 bbls total fluid 22% water

- 09-14-95 Fluid level at 3600'. Swabbed 12.6 bbls total fluid with a trace of water, swabbing to 4220'. Gravity 36.4 corrected. Load lacks 1 bbl of being recovered.
Tested per hour from 4225'.
 12.5 bbls total fluid 20% water
 10.3 bbls total fluid 26% water
 8.9 bbls total fluid 15% water
 8.4 bbls total fluid 17% water
 7.4 bbls total fluid 12% water
 7.3 bbls total fluid 17% water
 7.6 bbls total fluid 14% water
 7.3 bbls total fluid 15% water
 7.4 bbls total fluid 12% water
 7.2 bbls total fluid 10% water

- 09-15-95 Fluid level at 3500'. Drilled and pushed CIBP at 4225' to 4262'. No change in fluid. Swabbed down to 4220', swabbed 16.5 bbls 100% oil. Pushed CIBP at 4262' to 4368', tested per hour from 4220', 16.35 bbls total fluid 10% water and 13.1 bbls total fluid 28% water.

- 09-16-95 Idle.

ABERCROMBIE RTD, INC.

**150 N. MAIN, SUITE 801
WICHITA, KANSAS 67202**

ORIGINAL

MILLER #3

Approx. NW NW NW
Sec. 22-12S-33W
Logan County, Ks.

OPERATOR: A.L. Abercrombie, Inc.
CONTRACTOR: Abercrombie RTD, Inc.
RIG #: 8
JOB #: 9508016

A.L. Abercrombie, Inc.
150 N. Main
Wichita, Ks.
(316) 262-1841

ELEVATION: GL '
KB '
API #15-109-20,591 -00-00

*****TIGHT HOLE*****

Page 9

09-17-95	Idle.
09-18-95	Fluid level at 3450'. Bailing hole clean, preparing to run tubing & rods.

ALLIED CEMENTING CO., INC.

3512

15-109-20591-00-00

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

RECEIVED
KANSAS CORP. COMM.

ORIGINAL

SERVICE POINT:

Oakley

DATE	8-13-95	SEC	22	TWP	112	RANGE	30	1:27	CALLED OUT	ON LOCATION	3:00 AM	JOB START	JOB FINISH	11:00 AM
LEASE	Miller	WELL #	3	LOCATION	Oakley 6W-6 1/2-N, 34S E5				COUNTY	Logan	STATE	Kan		

OLD OR NEW (Circle one)

CONTRACTOR Abercrombie RTD #8

TYPE OF JOB Production String Top

HOLE SIZE 7 1/8 T.D. 4770

CASING SIZE 4 1/2 DEPTH 4412

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 22.84'

CEMENT LEFT IN CSG. 22'

PERFS. _____

OWNER Same

CEMENT

AMOUNT ORDERED 450 SKS 1.50

used (SKS)

COMMON @ _____

POZMIX @ _____

GEL @ _____

CHLORIDE @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING @ _____

MILEAGE @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Walt

191 HELPER Dean

BULK TRUCK

309 DRIVER Paul

BULK TRUCK

303 DRIVER Steve

REMARKS:

Consent Dred Circ

that for

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE @ _____

MILEAGE @ _____

PLUG @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: A.I. Abercrombie

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

ALLIED CEMENTING CO., INC.

3511

15-109-20591-00-00

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

SERVICE POINT:

Oakley

RECEIVED
KANSAS CORP. COMM

DATE <u>8-13-95</u>	SEC. <u>22</u>	TWP. <u>12^S</u>	RANGE <u>33</u>	CALLER <u>1:27</u>	ON LOCATION <u>3:00</u>	JOB START	JOB FINISH <u>10:00 AM</u>
LEASE <u>Miller</u>	WELL # <u>3</u>	LOCATION <u>Oakley 6W-6 1/2 S. 4W, 3/4 S. E. S</u>	COUNTY <u>Logan</u>	STATE <u>Kan</u>			

OLD OR NEW (Circle one)

CONTRACTOR Abercrombie R.T.D #8

TYPE OF JOB Production String Bottom

HOLE SIZE 7 7/8 T.D. 9770'

CASING SIZE 4 1/2 DEPTH 4412.28'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL D-V Tool DEPTH 1720.52

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 22.84'

CEMENT LEFT IN CSG. 22'

PERFS.

OWNER Same

CEMENT

AMOUNT ORDERED 75 SKS 5950 per, 7 1/2 # Gilsomite

2% Gel, 3/4 of 1% CFR-2,

150 SKS com, BA-29

COMMON @

POZMIX @

GEL @

CHLORIDE ORIGINAL

HANDLING @

MILEAGE @

EQUIPMENT

PUMP TRUCK CEMENTER Walt

151 HELPER Dean

BULK TRUCK

309 DRIVER Steve

BULK TRUCK

303 DRIVER Paul

REMARKS:

Float Held

Cement Did Cure on Top Stage

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

PLUG @

TOTAL

CHARGE TO: A.L. Abercrombie, Inc.

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

4 1/2

1 - 4 1/2 Gilsomite @

1 - AEU in set @

6 - Turbo-Cant @

17 - Scepters @

1 - D-V Tool @

TOTAL

X B.E. Rowles
Anthony, Ward
Walt Dill

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.

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

SIGNATURE Anthony Ward

ALLIED CEMENTING CO., INC.

3512

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

15-109-20591-00-00

SERVICE POINT:

Oakley

DATE <u>8-13-95</u>	SEC. <u>22</u>	TWP. <u>12</u>	RANGE <u>3</u>	CALLED OUT <u>1:27</u>	ON LOCATION <u>3:00 AM</u>	JOB START	JOB FINISH <u>11:00 AM</u>
LEASE <u>Miller</u>	WELL # <u>3</u>	LOCATION <u>Oakley 6W-6 1/2 S-14, 34S, 85</u>			COUNTY <u>Logan</u>	STATE <u>Kan</u>	

OLD OR NEW (Circle one) NEW

CONTRACTOR Abercrombie RTD #8

TYPE OF JOB Production String Top

HOLE SIZE 7 7/8 T.D. 4770'

CASING SIZE 4 1/2 DEPTH 4412'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 22.84'

CEMENT LEFT IN CSG. 22'

PERFS.

OWNER Same

CEMENT

AMOUNT ORDERED 450 sks 1.5 to used (sks)

COMMON @

POZMIX @

GEL @

CHLORIDE @

HANDLING @

MILEAGE @

EQUIPMENT

PUMP TRUCK CEMENTER Walt

191 HELPER Dean

BULK TRUCK DRIVER Paul

309

BULK TRUCK DRIVER Steve

303

ORIGINAL

TOTAL

REMARKS:

SERVICE

Constant Ditch Circ

Paul

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

PLUG @

TOTAL

CHARGE TO: A. I. Abercrombie

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

@

@

@

@

TOTAL

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.

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

SIGNATURE [Signature]