

ORIGINAL

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

Operator: License # 5422

Name: A.L. Abercromble, Inc.

Address 150 N. Main, Suite #801

City/State/Zip Wichita, KS 67202

Purchaser: Koch Oil Company

Operator Contact Person: Steve Frankamp

Phone (316) 262-1841

Contractor: Name: Abercromble RTD, Inc.

License: 30684

Wellsite Geologist: Steve Davls

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: N/A

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBSD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

3-28-97 04-07-97 05-16-97
Spud Date Date Reached TD Completion Date

API NO. 15- 101-21737-0000

County _____ Lane _____

100'W - NE - NE - SE Sec. 34 Twp. 18S Rge. 29 W

2310' Feet from N (circle one) Line of Section

430' Feet from W (circle one) Line of Section

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

Lease Name Keenan Well # 1

Field Name WC

Producing Formation Lansing

Elevation: Ground 2809' KB 2814'

Total Depth 4660' PBSD 4312

Amount of Surface Pipe Set and Cemented at 257.80' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1415' Feet

If Alternate II completion, cement circulated from 1415'

feet depth to surface w/ 150 sx cmt.

Drilling Fluid Management Plan A14.2, 1-2898 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1,500 ppm Fluid volume 1080 bbls

Dewatering method used Evaporazation

Location of fluid disposal if hauled offsite: 667-0

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket No. _____

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 Steve Frankamp

Title Executive Vice-President Date 6/3/97

Subscribed and sworn to before me this 3rd day of June, 19 97.

Notary Public Deborah K. Ammerman

Date Commission Expires 03-01-2000

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received

Distribution

KCC SLD/Rep NGPA

KGS Plug Other (Specify)

DEBORAH K. AMMERMAN
Notary Public - State of Kansas
My Appt. Expires 03-01-2000

ORIGINAL

SIDE TWO

Operator Name Abercrombie RTD, Inc.

Lease Name Keenan

Well # 1

Sec. 34 Twp. 18S Rge. 29

East

County Lane

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:

Dual Induction
Compensated Density/Neutron

Log Formation (Top), Depth and Datums Sample
Name Top Datum

SEE ATTACHMENT

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" | 20# | 257.80' | 60/40 pos | 180 | 2% gel, 3% cc |
| Production | 7 7/8" | 4 1/2" | 10.5# | 4413.14' | 60/40 pos | 35 | 2% gel, 1/2% CFRZ |
| | | | | | Common | 100 | BA29 |

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 | 4316-18 | Common | 135 sx | |
| <input checked="" type="checkbox"/> Plug Off Zone | 4295-98 | Common | 65 sx | |

| 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 | Depth |
| 4 | 4316-18 | Squeezed with 135 sx common | 4316-18 |
| 4 | 4295-98 | Squeezed with 65 sx common | 4295-98 |
| 4 | 4295-98 | 500 gal 15% non-E; 1000 gal 15% non-E | 4295-98 |

| TUBING RECORD | Size | Set At | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------|--------|--------|-----------|---|
| | 2 3/8" | 4308 | None | |

| Date of First, Resumed Production, SMD or Inj. | Producing Method |
|--|---|
| 05-29-97 | <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) |

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | 40 | | Trace | | 37° |

Disposition of Gas: Vented Sold Used on Lease
(If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval

4295
4318

KEENAN #1

100' W-NE-NE-SE

Sec. 34-18S-29W

Lane Co., Ks.

ORIGINAL

Electric Log:

Abercrombie Drilling, Inc.

150 N. Main, Suite 801

Wichita, Ks. 67202

(316) 262-1841

Anhydrite 2151' (+663)
 B Anhydrite 2177' (+637)
 Heebner 3935' (-1121')
 Toronto 3951' (-1137')
 Lansing 3974' (-1160')
 Munice Creek 4145' (-1331')
 Stark Shale 4251' (-1437')
 BKC 4339' (-1525')
 Marmaton 4366' (-1552')
 Pawnee 4452' (-1638')
 Fort Scott 4502' (-1688')
 Cherokee Shale 4526' (-1712')
 Mississippian 4588' (-1774')
 Log TD 4667' (-1853')
 RTD 4660' (-1846')

DST #1 4175'-4200' (140' zone)
30-45-60-45

Weak surface blow throughout

Rec 125' water (20,000 ppm chlorides)

IFP 12-31# ISIP 1005#

FFP 31-68# FSIP 990#

DST #2 4202'-29' Hit bridge-misrun

DST #3 4202'-29' (Lansing "J" zone)
30-45-45-45

1st open: Blow off bottom 12"

2nd open: Blow off bottom 15"

Rec: 995' MW with scum of oil (80% water, 20% mud)

FP: 19-232#, 242-418#

SIP: 929-925#

HP: 2043-2038#

DST #3 (4202'-4229')

DST #4 (4285'-4294') (220' zone)
30-45-60-45

Weak blow increased to 8" in bucket 2nd open.

Rec 150' gas in pipe

210' sli gsy oil (10% g, 90% oil) 34°

60' sli gas & water cut muddy oil (10% gas, 10% water, 40% mud, 40% oil)

IFP 7-44# ISIP 1000#

FFP 48-112# FSIP 995#

DST #5 (4324'-4346') (Pleasanton)
30-30-30-30

Weak blow 10 min, died

Rec. 1' mud

IFP 10-10# ISIP 10#

FFP 10-10# FSIP 10#

DST #6 (4394'-4412') (Marmaton B)
30-30-30-30

Weak surface blow 15 min., died

Rec. 10' mud with sho oil on top

IFP 9-14# ISIP 1050#

FFP 14-17# FSIP 1026#

DST #7 4245' - 4290' (Straddle Packers) (K zone)
30-45-60-45

Good blow to bottom bucket in 16 min.

Rec. 260' muddy water, 360' water.

IFP 38-169# ISIP 932#

FFP 176-297# FSIP 906#

100' W-NE-NE-SE
 Sec. 34-18S-29W
 Lane Co., Ks.
 KEENAN #1



HALLIBURTON ENERGY SERVICES, INC.

REMIT TO:
 P.O. BOX 951046
 DALLAS, TX 75395-1046
 Corporate FIN 73-0271280

| INVOICE NO. | DATE |
|-------------|------------|
| 196061 | 05/15/1997 |

| | | | | | |
|------------------------------------|------------------------------|--|----------------------------|------------------------------|---------------------------|
| WELL LEASE NO./PROJECT KEENAN 1 | | WELL/PROJECT LOCATION LANE ORIGINAL | | STATE KS | OWNER SAME |
| SERVICE LOCATION HAYS | | CONTRACTOR LEON'S | JOB PURPOSE SHOWN BELOW | | TICKET DATE 05/15/1997 |
| ACCT. NO. 002400 | CUSTOMER AGENT B E SOWLES | VENDOR NO. | CUSTOMER P.O. NUMBER | SHIPPED VIA COMPANY TRUCK | FILE NO. 24501 |

A L ABERCROMBIE INC
 OIL CENTER
 ROUTE 1 BOX 56
 GREAT BEND, KS 67530

1352005
P

DIRECT CORRESPONDENCE TO:
 1102 E. 8TH
 HAYS KS 67601
 913-625-3431

MAY 22 1997

| REFERENCE NO | DESCRIPTION | QUANTITY | UM | UNIT PRICE | AMOUNT |
|--|--------------------------------|----------|-----|------------|-----------------|
| PRICING AREA - MID CONTINENT | | | | | |
| JOB PURPOSE - RETRIEVABLE TOOL SERVICE | | | | | |
| 100-115 | MILEAGE SPEC. TOOLS ROUND TRIP | 90 | MI | 1.95 | 175.50 |
| 110-056 | RBP | 1510 | FT | 1,000.00 | 1,000.00 |
| | | 1 | EA | | |
| | | 4.5 | IN | | |
| 116-437 | POSITIONER 4.5" | 1 | EA | 350.00 | 350.00 |
| 116-228 | STRIPPER TYPE HEAD | | | 160.00 | 160.00 |
| | | 8 | HR | PER 8 HR | |
| | | 1 | EA | | |
| 128-546 | SQUEEZE MANIFOLD | 1 | DAY | 305.00 | 305.00 |
| 116-434 | ENVIRONMENTAL CHARGE | 1 | EA | 13.50 | 13.50 |
| | JOB PURPOSE SUBTOTAL | | | | 2,004.00 |
| JOB PURPOSE - TOP OUTSIDE PRODUCTION CASING | | | | | |
| 000-117 | MILEAGE CEMENTING ROUND TRIP | 90 | MI | 3.20 | 288.00 |
| 009-019 | PLUGGING BK SPOT CEMENT OR MUD | 1415 | FT | 1,425.00 | 1,425.00 |
| | | 1 | UNT | | |
| 504-280 | MIDCON-2 STANDARD CEMENT | 150 | SK | 13.53 | 2,029.50 * |
| 509-406 | ANHYDROUS CALCIUM CHLORIDE | 5 | SK | 46.90 | 234.50 * |
| 507-210 | FLOCELE | 63 | LB | 1.90 | 119.70 * |
| 509-554 | HALLIBURTON GEL - 100 LB. | 15 | SK | 21.40 | 321.00 * |
| 500-207 | BULK SERVICE CHARGE | 278 | CFT | 1.55 | 430.90 * |
| 500-306 | MILEAGE CNTG MAT DEL OR RETURN | 1190.835 | TMI | 1.18 | 1,405.19 * |
| | JOB PURPOSE SUBTOTAL | | | | 6,253.79 |

***** CONTINUED ON NEXT PAGE *****

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



HALLIBURTON ENERGY SERVICES, INC.

REMIT TO:
 P.O. BOX 951046
 DALLAS, TX 75395-1046
 Corporate FIN 73-0271280

| INVOICE NO. | DATE |
|-------------|------------|
| 196061 | 05/15/1997 |

| | | | | | |
|------------------------|----------------|-----------------------|----------------------|---------------|-------------|
| WELL LEASE NO./PROJECT | | WELL/PROJECT LOCATION | | STATE | OWNER |
| KEENAN 1 | | LANE ORIGINAL | | KS | SAME |
| SERVICE LOCATION | CONTRACTOR | | JOB PURPOSE | | TICKET DATE |
| HAYS | LEON'S | | SHOWN BELOW | | 05/15/1997 |
| ACCT. NO. | CUSTOMER AGENT | VENDOR NO. | CUSTOMER P.O. NUMBER | SHIPPED VIA | FILE NO. |
| 002400 | B E SOWLES | | | COMPANY TRUCK | 24501 |

A L ABERCROMBIE INC
 OIL CENTER
 ROUTE 1 BOX 56
 GREAT BEND, KS 67530

DIRECT CORRESPONDENCE TO:
 1102 E. 8TH
 HAYS KS 67601
 913-625-3431

| REFERENCE NO. | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|---|--------------------------|----------|------|------------|------------|
| | INVOICE SUBTOTAL | | | | 8,257.79 |
| | DISCOUNT-(BID) | | | | 2,587.55- |
| | INVOICE BID AMOUNT | | | | 5,670.24 |
| | *-KANSAS STATE SALES TAX | | | | 155.75 |
| | *-HAYS CITY SALES TAX | | | | 31.80 |
| INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====> | | | | | \$5,857.79 |

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ALLIED CEMENTING CO., INC.

3609

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

SERVICE POINT:

ORIGINAL

ness city

| | | | | | | | |
|---------------------|-----------------|--|-------------------|--------------------------|---------------------------|-------------------------|--------------------------|
| DATE <u>4-7-97</u> | SEC. <u>36</u> | TWP. <u>18s</u> | RANGE <u>29w.</u> | CALLED OUT <u>4:30pm</u> | ON LOCATION <u>10:04m</u> | JOB START <u>1:00AM</u> | JOB FINISH <u>3:00AM</u> |
| LEASE <u>Keenan</u> | WELL # <u>1</u> | LOCATION <u>Dighton 2S 2W 1/2 S W.S.</u> | | | COUNTY <u>Lane</u> | STATE <u>KS</u> | |

OLD OR NEW (Circle one)

CONTRACTOR Abacrombie Dalg #8

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 4661

CASING SIZE 4 1/2 DEPTH 4414

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Port collar DEPTH 1415

PRES. MAX 1000 MINIMUM _____

MEAS. LINE _____ SHOE JOINT 26

CEMENT LEFT IN CSG. 26

PERFS. _____

OWNER A.L. Abacrombie, Inc.

500gal mud sweep CEMENT

Lead. 40sx 6 3/4 2% gel

AMOUNT ORDERED .0050% CD-31

6 Kol seal 6 5x

Tail. 100sx Com w/ 1.7" BA-29

Per St.

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

mud sweep 500gal @ _____

22" CD-31 @ _____

170" BA-29 @ _____

300" Kol seal @ _____

HANDLING _____ @ _____

MILEAGE 36 @ _____

EQUIPMENT

PUMP TRUCK CEMENTER J. Wiggins

224 HELPER B. Worton

BULK TRUCK

222 DRIVER B. White

BULK TRUCK

342 DRIVER K. Rose

REMARKS:

circ. 4 1/2 cas. plug RH. 10% mix

40 sx 6 3/4 .0050% CD-31 6" Kol seal

Tail 100sx Com w/ 1.7" BA-29

Displaced w/ 74 BBL. float

held

Thanks

CHARGE TO: A.L. Abacrombie Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 4414

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE 36 @ _____

PLUG Rubber @ _____

_____ @ _____

_____ @ _____

TOTAL _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

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 P. E. Low

ALLIED CEMENTING CO., INC.

8462

Federal Tax I.D.# 48-0727860

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

ORIGINAL

SERVICE POINT: R

| | | | | | | | |
|--------------------------------|-----------------|---|-----------------------------|------------|----------------------------|---------------------------|----------------------------|
| DATE <u>3-28-97</u> | SEC. <u>34</u> | TWP. <u>18^s</u> | RANGE <u>29^w</u> | CALLED OUT | ON LOCATION <u>8:00 pm</u> | JOB START <u>10:30 pm</u> | JOB FINISH <u>10:45 pm</u> |
| LEASE <u>Kennan</u> | WELL # <u>1</u> | LOCATION <u>Dighton 2s 2w 1/2 s w 1/4</u> | | | COUNTY <u>Lincoln</u> | STATE <u>KS</u> | |
| OLD OR <u>NEW</u> (Circle one) | | | | | | | |

CONTRACTOR Abercrombie RFD #8

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 263

CASING SIZE 8 7/8 DEPTH 257 2 1/2

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 10-15

PERFS.

DISPLACEMENT 15 3/4

OWNER _____

CEMENT

AMOUNT ORDERED 180 60% 30% 20% g

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Mike

153 HELPER Paul

BULK TRUCK

116 DRIVER Dennis

BULK TRUCK

DRIVER

REMARKS:

SERVICE

Cement D.O. Circ.

(Another Job Well Done by A.M.)

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 8 7/8 wooden _____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Abercrombie Drilling Inc

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 Anthony Ward

PRINTED NAME