

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: Abercrombie Drilling, Inc.

Address 150 N. Main, Suite 801

City/State/Zip Wichita, KS 67202

Purchaser: _____

Operator Contact Person: Jack L. Partridge

Phone (316) 262-1841

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist: Mark R. Galyon

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/Re-Entry: old well info as follows:

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. _____

11-7-91 11-15-91
Spud Date Date Reached TD Completion Date

API NO. 15- 109-20,521

County Logan

SE SE NW Sec. 34 Twp. 11S Rge. 33 E

2970' Feet from S/N (circle one) Line of Section

2970' Feet from E/W (circle one) Line of Section

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

Lease Name Glad Well # 1

Field Name unknown

Producing Formation LKC

Elevation: Ground 3096' KB 3101'

Total Depth 4613' PBSD _____

Amount of Surface Pipe Set and Cemented at 254.40' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AIT II DYS
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter SE Sec. 34 Twp. 11S S Rng. 33 E/W E

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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

Title Vice Pres. Date 11-21-91

Subscribed and sworn to before me this 21st day of November, 19 91.

Notary Public Angela Woodard

Date Commission Expires March 20, 1993

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
RECEIVED
STATE CORPORATION COMMISSION
KCC SWD/Rep NGPA
KGS Plug Other (Specify)
NOV 22 1991 11-22-1991

ANGELA WOODARD
State of Kansas
My Appt. Exp. Mar. 20, 1993

STATE CORPORATION COMMISSION
Wichita, Kansas
ACO-1 (7-91)

SIDE TWO

Operator Name Abercrombie Drilling, Inc. Lease Name Glad Well # 1
 East County Logan
 Sec. 34 Twp. 11S Rge. 33 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 Datum	<input checked="" 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	Anhydrite	(2592'-2635')	
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	4007'	(-906')
List All E.Logs Run:		Lansing	4051'	(-950')
DST #1 4117'-4137' (70' Zone)		Stark Shale	4271'	(-1170')
30-30-30-30		Hushpuckney Shale	4305'	(-1204')
Rec. 3' mud		Pawnee	4460'	(-1359')
IFPs 30-30 ISIP 30		Myrick Station	4491'	(-1390')
FFPs 30-30 FSIP 30		Fort Scott	4517'	(-1416')
		Cherokee Shale	4546'	(-1445')
		Johnson Zone	4588'	(-1487')
		Total Depth 4613'		

CASING RECORD <input type="checkbox"/> New <input 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 1/2"	8 5/8"	23#	254.40'	60-40posmix	160	2% gel 3% cc

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input 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

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval _____

ORIGINAL 15-109-20521-00-00

GLAD #1
SE SE NW
Sec. 34-11S-33W
Logan Co., KS

DST #2 4187'-4267'
30-30-30-30
Rec. 10' mud with SSO
IFPs 30-30 ISIP 304
FFPs 30-30 FSIP 71

DST #3 4265'-4295'
30-30-30-30
Rec. 70' mud
IFPs 50-50
FFPs 60-60

DST #4 4542'-4613'
30-45-60-45
Rec. 80' mud
IFPs 50-50 ISIP 1025
FFPs 50-50 FSIP 966

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11-22-1991
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CONSERVATION DIVISION
Wichita, Kansas

PIPE TALLY

15-109-20521-00-00

DATE 11-7

1991

No. Pcs.	LENGTH		LENGTH		LENGTH		LENGTH		LENGTH	
	Ft.	Ins.	Ft.	Ins.	Ft.	Ins.	Ft.	Ins.	Ft.	Ins.
1	41	40			tally, threads on 283.30					
2	38	80								
3	41	25								
4	42	35								
5	41	45								
6	41	15								
7	35	15								
8	28	55								
9	35	15								
10	246	40			Tally					
11	8	—			Landing 57					
12	254	40			set					
13	5	—			Extra Head					
14	259	40			RTD					
15					INFORMATION STATE OF CALIFORNIA DIVISION OF INDUSTRIAL RELATIONS 11-22-1991 NOV 22 1991					
16										
17										
18										
19										
20										
Total										

Col. No.	Stock of	Abercrombie Ditch, Inc.
1	Weight	28 = Size 8 5/8
2	Grade	used Coupling Thd 8 1/2
3	From	Hard Stock
4	Sent To	Glad #1
5		
Total	Remarks	

● ORIGINAL

NOV 7 1991

15-109-2052100-00

REPORT OF RUNNING AND CEMENTING CASING

A. L. ABERCROMBIE, INC.

ABERCROMBIE DRILLING, INC.

Date 11-7-91

Lease Name GLAD Well No. #1

Lease Owner/Operator Abercrombie Drilling, Inc.

Drilling Contractor Abercrombie LTD, Inc. Rig No. 8

Location SE - SE - NW Sec. 34 Twp 11S Rge 35W County Lagan

Casing Received From: (Supply) Yard Stock Inv. No. _____

Casing Charged To: (Company) Abercrombie Drilling, Inc.

Casing Trucked By: Our Trucks

Amount Of Casing Received 7 Jts. 283.30 (7.1650) Ft.

Amount Of Casing Left Over 1 Jts. 35.45 (7.1650) Ft.

Disposition Of Casing Left Over Tie-in For TO (Echsch #1) well
From (Leback oil - East-13-18)

Rotary Bushing T.D. 257 Ft. Size Of Hole 12 1/4 In.

Casing Set At: (R.B. To Bottom Of Shoe) 6 Jts. 254.40 (7.1650 OFF) Ft.

Size 8 7/8 Weight 23⁰⁰ Thread 8⁰⁰

Range 3 Grade used Make -

Shoe (Type—Make) Texas Slice Float Collar (Type—Make) -

Stage Collar (Make—Set At) -

Centralizers (Set At) -

Scratchers (Set At) -

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4-22-1991
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Cemented With 110 Sacks Of 60/40/107 2% Cel 3% ncc Cement

Cemented By Allied Plug To: 254.40 Ft.

Plugs (Number—Type) 1x 8 7/8 Rubber

Longstring—R.B. To Top Of Braden Head 7' Ft.

Surface String—R.B. To Top Of Collar 8' Ft.

Remarks: Spudded @ 2:30 PM 11-7-91 Ran 6 jts used 8 7/8 x 23" casing
Tally 246.40 SET @ 254.40 / 160 sy 60/40/107 2% Cel 3% ncc by
Allied Drilling Inc LTD 257 Survey (1/2") WOC 8 hrs Plug Down
@ 8:15 PM 11-7-91 Drill Plug @ 4:15 AM 11-8-91
Water: North Church HCR1 OK-Ly, 156779? 700⁰⁰

NOTE: All measurements to be made in feet and hundredths.
All casing to be ran in numerical order of tally.
Attach tally to back of casing report.

Anthony Miller
Company Representative

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

15-109-20521-00-00

NOV 13 1991

3003

New

ORIGINAL

Date <i>11-7-91</i>	Sec. <i>34</i>	Twp. <i>11</i>	Range <i>33</i>	Called Out <i>2:15 PM</i>	On Location <i>6:30 PM</i>	Job Start <i>7:00 AM</i>	Finish
Lease <i>Okad</i>	Well No. <i>1</i>	Location <i>Dakley 838 40 gel 557W 10N</i>			County <i>Magam</i>	State <i>Ks</i>	
Contractor <i>Abercrombie & Co. Inc. RTD</i>				Owner			
Type Job <i>Surface</i>				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 listed.			
Hole Size <i>12 1/4</i>	T.D. <i>259'</i>						
Csg. <i>8 7/8</i>	Depth <i>254'</i>						
Tbg. Size	Depth						
Drill Pipe	Depth						
Tool	Depth						
Cement Left in Csg. <i>15'</i>	Shoe Joint						
Press Max.	Minimum						
Meas Line <i>NO</i>	Displace <i>15 1/4</i>						
Perf.							

EQUIPMENT

<i>New</i>	No.	Cementor	
	Pumptrk <i>158</i>	Helper	
	No.	Cementor <i>J.D.</i>	
	Pumptrk	Helper <i>W.C.</i>	
		Driver <i>Hath</i>	
	Bulktrk <i>199</i>		
	Bulktrk	Driver	

DEPTH of Job

Reference:	<i>Pump truck change</i>	
	<i>mileage</i>	
	<i>18 1/2 TWP</i>	
		Sub Total
		Tax
		Total

Remarks: *Cement did circulate*

Charge To *Abercrombie RTD Inc*

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.

X *Company Wants*

CEMENT

Amount Ordered *160 ax 6 1/4 2 7/8 gel 3 7/8 cc*

Consisting of

Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	

Sales Tax

Handling

Mileage

Sub Total

Total

Floating Equipment

RECEIVED STATE CORPORATION COMMISSION

101-3250

NOV 22 1991

Rig # 8

Thank you.

W.P.

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

PRICES AND TAXES: All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

SERVICE CONDITIONS AND LIABILITIES: 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.