

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

Operator: License # 5131

Name: Thunderbird Drilling, Inc.

Address P.O. Box 780407

City/State/Zip Wichita, Ks. 67278

Purchaser: _____

Operator Contact Person: Burke Krueger

Phone (316) 685-1441

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. _____

10-8-95 10-12-95 10-13-95
Spud Date Date Reached TD Completion Date

API NO. 15- 153-20,808-00-00 ORIGINAL

County Rawlins

 - NW - NW - NE Sec. 36 Twp. 1S Rge. 32W E

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

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

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

Lease Name WICKE Well # 2

Field Name _____

Producing Formation LKC

Elevation: Ground 2777' KB 2782'

Total Depth 4004' PBTD _____

Amount of Surface Pipe Set and Cemented at 310.10' 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 alt I 4-3-96
(Data must be collected from the Reserve Pit) LV

Chloride content 800 ppm Fluid volume 570 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

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: [Signature]

Title Vice President Date 1-4-96

Subscribed and sworn to before me this 4th day of January, 19 96.

Notary Public [Signature]

Date Commission Expires _____

GLENDIA FLUNK
Notary Public - State of Kansas
My Appt. Expires 4-16-98

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

JAN 0 1996
Form ACO-1 (7-91) 01-08-1996
KANSAS CORPORATION COMMISSION
WICHITA, KANSAS

SIDE TWO

Operator Name Thunderbird Drilling, Inc. Lease Name WICKE Well # 2
 Sec. 36 Twp. 1S Rge. 32W East County Rawlins
 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:
R.A. Guard Log

Log Sample
 Formation (Top), Depth and Datums

Name Top Datum

See attached

CASING RECORD <input 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#	310.10'	60/40 pos	225 sks	2% gel, 4% CC
Production String	7 7/8"	4 1/2"	10.5#	3999'	EA2	150 sks	5% calseal, 10% salt, 4% Hallid 322, 25% Dai
						20 sks	Rathole-50/50 pos

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	3908-12	500 gal. MA & 3000 gal. 20% NE

TUBING RECORD	Size 2 3/8	Set At 3968	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. January 2, 1996	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input checked="" type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. 25	Gas Mcf	Water Bbls. Trace	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

Other (Specify) _____

Production Interval _____

ALLIED CEMENTING CO., INC. 4007

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

ORIGINAL

SERVICE POINT:
Oakley

15-153-20808-00-00

DATE <u>10-7-95</u>	SEC <u>36</u>	TWP <u>1</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>7:00PM</u>	JOB START <u>9:15PM</u>	JOB FINISH <u>9:45PM</u>
LEASE <u>Wicke</u>	WELL # <u>2</u>	LOCATION <u>Herndon 16N-30W-14-SS</u>			COUNTY <u>Rawlins</u>	STATE <u>Kan</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>Abercrombie R.T.D.#8</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	T.D. <u>315'</u>
CASING SIZE <u>8 1/2</u>	DEPTH <u>310'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	

AMOUNT ORDERED <u>225</u>	<u>SKS 60/40 per</u>
<u>4%cc - 2%bl</u>	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
HANDLING <u>225</u>	<u>SKS @ 1.05</u>
MILEAGE <u>4 1/2 per skl mile</u>	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Walt</u>
# <u>191</u>	HELPER <u>Terry</u>
BULK TRUCK	
# <u>218</u>	DRIVER <u>Dean</u>
BULK TRUCK	
#	DRIVER

REMARKS:

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>445.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>miles</u>	@
PLUG <u>8 1/2" Surface</u>	@ <u>45.00</u>
TOTAL	

CHARGE TO: Thunder-Bird Drls

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 M. ...

RECEIVED
STATE CORPORATION COMMISSION
01-08-1996
JAN 0 1996

CUSTOMER COPY

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046



HALLIBURTON
ORIGINAL

INVOICE

INVOICE NO.	DATE
840063	10/12/1995

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
WICKE 2 ✓	RAWLINS	KS	THUNDERBIRD		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
HAYS	ABERCROMBIE RIG #8	CEMENT PRODUCTION CASING	10/12/1995		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
889807	CLAUDE BLAKESLEY			COMPANY TRUCK	97832

15-153-20808-00-00

THUNDERBIRD DRILLING INC
BOX 97
ELLINWOOD, KS 67526

DIRECT CORRESPONDENCE TO:
P.O. BOX 1598
LIBERAL, KS 67205-0000

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	290 MI		2.75	797.50
		1 UNT			
001-016	CEMENTING CASING	4005 FT		1,670.00	1,670.00
		1 UNT			
030-016	CEMENTING PLUG 5W ALUM TOP	4 1/2 IN		45.00	45.00
		1 EA			
018-315	MUD FLUSH	500 GAL		.65	325.00
314-163	CLAYFIX II	2 GAL		28.00	56.00
12A	GUIDE SHOE - 4 1/2" BRD THD	1 EA		95.00	95.00
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" BRD	1 EA		73.00	73.00
815.19104					
27	FILL-UP UNIT 4 1/2"-5"	1 EA		45.00	45.00
815.19111					
40	CENTRALIZER 4-1/2 X 7-7/8	7 EA		50.00	350.00
806.60004					
504-130	CEMENT - 50/50 POZMIX STANDARD	20 SK		6.75	135.00
504-308	CEMENT - STANDARD	150 SK		8.86	1,329.00
509-968	SALT	650 LB		.15	97.50
507-775	HALAD-322	56 LB		7.00	392.00
507-970	D-AIR 1, POWDER	38 LB		3.25	123.50
508-127	CAL SEAL 60	7 SK		25.90	181.30
506-121	HALLIBURTON-GEL 2%	100 LB		.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	1 SK		18.60	18.60
500-207	BULK SERVICE CHARGE	190 CFT		1.35	256.50
500-306	MILEAGE CMTG MAT DEL OR RETURN	1253.670 TMI		.95	1,190.99

*115-113
BOP*

INVOICE SUBTOTAL

7,180.89

DISCOUNT - (BID)

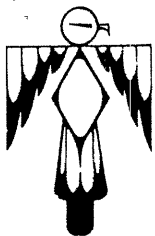
1,867.01-

INVOICE BID AMOUNT

5,313.88

***** 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



Thunderbird Drilling, Inc.

ORIGINAL

7701 EAST KELLOGG, SUITE 780
POST OFFICE BOX 780407
WICHITA, KANSAS 67278-0407
(316) 685-1441

DAILY DRILLING REPORT

15-153-20808-09-00

#2 WICKE
NW NW NE Sec. 36-1S-32W
Rawlins Co., KS

Elevation: 2781 GL
2786 KB

TOPS:	Sample	Log
Anhydrite	2557 + 229	2556 + 230
B. Anhydrite	2592 + 194	2591 + 195
Topeka	3636 - 750	3533 - 747
Heebner	3700 - 914	3699 - 913
Lansing	3730 - 944	3731 - 946
Lansing "J"		3908 -1122
Stark		3929 -1143
BKC		3993 -1207
LTD		4004 -1218
RTD	4000 -1214	

- 10-7-95 MIRU
- 10-8 Ran 7 jts. used 8 5/8", 28# casing set at 310.1 w/225 sx 60-40 poz, 2% gel, 4% cc. PD @ 9:45 PM 10-7. Drilling at 422'.
- 10-9 Drilling at 2,600'
- 10-10 Drilling at 3693'
- 10-11 Drilling at 3868'
DST #1 (D zone) 3745-3800'/30-30-30-30. Rec. 20' heavily oil cut mud (35° oil) IFP 26-28, FFP 36-34, SIP 765-428.
- 10-12 DST #2 (J zone) 3880-3925/30-30-45-60. Rec. 200' GIP, 50' clean gassy oil & 50' muddy oil (75% oil). IFP 28-30, FFP 42-50, SIP 528-615.
- 10-13 Ran 4 1/2", 10 1/2# New casing set at 3,999 w/150 sx EA2 cement. Good circulation. PD @ 3:00 PM the 12th.
- 10-30 Ran correlation and bond log. Top of cement 3260 - good bond. Swabbed down to 3500'. Perforated 3908-12 - 4 shots/ft. Acidized w/500 gal. MA. Swabbed load and tested 4 BO, Tr Water in 1 hr.
- 10-31 Overnight filup 250' oil, no water. Acidized w/3,000 gal. 20% NE. Swabbed load and tested as follows: 1st hr - 12.76 BO, NW
2nd hr - 9.28 BO, NW
3rd hr. - 5.22 BO, NW
4th hr. 5.22 BO, NW
- 11-1 Overnight FU 400' oil. SI
- 1-2-96 Put well on pump.
Produced 53 BO + Trace of water/24 hrs.
- 1-3 Produced 46 BO + Trace of water/24 hrs.
- 1-4 Produced 21 BO + Trace of water/24 hrs.
- 1-5 Produced 17 BO + Trace of water/24 hrs.

FINAL REPORT

RECEIVED
STATE CORPORATION COMMISSION
01-08-1996
JAN 11 1996

STATE CORPORATION COMMISSION
WICHITA, KANSAS