

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

Wichita, Ks. 67202-0407

City/State/Zip _____

Purchaser: _____

Operator Contact Person: Burke B. 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 SLOW 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 PBTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

06-07-95 06-13-95 06-13-95
Spud Date Date Reached TD Completion Date

API NO. 15- 153-20,803-00-00

County Rawlins

C - SW - SE Sec. 25 Twp. 1S Rge. 32W XX ^E _W

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

1980' Feet from E (circle one) Line of Section

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

Lease Name Wahrman 'B' Well # 2

Field Name Beaver Creek

Producing Formation Lansing KC

Elevation: Ground 2810' KB 2815'

Total Depth 4040' PBTD _____

Amount of Surface Pipe Set and Cemented at 316.17' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 5'

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 8-6-96 JK
(Data must be collected from the Reserve Pit)

Chloride content 3500 ppm Fluid volume 850 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 6-26-95

Subscribed and sworn to before me this 26th day of June, 1995.

Notary Public [Signature]

Date Commission Expires _____

STATE RECEIVED
CORPORATION COMMISSION
JUN 27 1995
06-29-1995
WICHITA, KANSAS

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

GLENDIA FUNK
Notary Public - State of Kansas
My Appl. Expires 4-16-98

SIDE TWO

Operator Name Thunderbird Drilling, Inc. Lease Name Wahrman 'B' Well # 2
 Sec. 25 Twp. 1S Rge. 32 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:
 RA Guard Log
 Neutron/Density Porosity
 Sonic Cement Bond Log

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

See attached report

CASING RECORD <input checked="" 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 1/4"	8 5/8"	28#	316.17'	60/40 posmix	225	2% gel 4% CC
PRODUCTION		4 1/2"		4039'	STANDARD	150	2% GEL
					50/50 POZ	20	

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	3954-3960	500 gal. MA & 2,000 gal. 15% NE	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No	
		2 3/8"	3950	N/A			
Date of First, Resumed Production, SWD or Inj.			Producing Method				
6-22-95			<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
	67				1		

Disposition of Gas: **METHOD OF COMPLETION** Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

ORIGINAL

DAILY DRILLING REPORT

API #15-153-20803

#2 Wahrman "B"
SW SE Sec. 25-1S-32W
Rawlins County, KS

Elevation: GR 2826
KB 2831 (Corrected)

TOPS:	<u>Sample</u>	<u>Ref. Well</u> <u>#1 Wahrman "B"</u>	<u>Log</u> <u>"B"</u>
Anhydrite	2602 + 229	+4	2601 + 230
B/Anhydrite	2640 + 191		2638 +193
Topeka	3579 - 748	+5	3579 -748
Hebner	3741 - 910	+6	3743 -912
LKC	3769 - 938	+8	3774 -943
BKC			4037 -1206
TD			4042 -1211

- 6-6-95 Moving in and rigging up.
Spud at 6:45 PM. Ran 8 jts of 8 5/8", 28# set at 316.17 with 225 sacks 60/40 pos, 2% gel, 4% cc. Plug down at 1:30 A.M. 6-7-95
 - 6-7 Waiting on cement. Drilled plug at 9:30
 - 6-8 Drilling at 2,129'
 - 6-9 Drilling at 3,415'
 - 6-10 DST #1 (Oread) 3700-3750', 45-45-45-45, Rec. 5' water cut oil (95% oil), 186' oil specked water, IFP 48-69, FFP 77-117#, SIP 1151-1122#.
 - 6-11 DST #2 ("D" zone), 3784-3840', 45-45-45-45. Rec. 2' oil, 65' oil cut mud, IFP 48-48#, FFP 68-68#. SIP 877-809.
DST #3 ("H" zone) 3885-3930', 30-30-30-30. Rec. 5' oil specked mud, IFP 39-39#, FFP 39-39#, SIP 58-48#.
 - 6-12 DST #4 ("J" zone) 3925-3965', 30-60-45-60. Rec. 120' gas in pipe, 60' oil, 60' oil cut mud, IFP 48-48, FFP 73-73, SIP 575-566#.
 - 6-13 RTD 4040'. Log. Set 4 1/2" casing at 4039 w/150 sx. EA2. Plug down @ 3:38 AM 6-13. Waiting on cement
 - 6-19 Move in completion unit. Ran correlation bond log. Perf. 3954-3960'. Swab down and recovered 14 gallons of oil. acidize with 500 gal. MA. Swab load and test 19 BO, no water/1 hr.
 - 6-20 Overnight fill up 750' oil, no water. Swab down & recovered 12 barrels of oil. Acidize w/2,000 gal. 15% NE. Swab load & test 1 hour - recovered 21 barrels of oil, no water. Putting on pump.
 - 6-22 Start well pumping @ 5:00 PM, 5 x 54" SPM
 - 6-24 Pump 56 barrels oil + 1 barrel water/24 hrs.
Speed up unit 1/2 SPM
 - 6-25 Pump 62 barrels oil + 1 barrel water/24 hrs.
Speed up unit 1/2 SPM
 - 6-26 Pump 67 barrels oil + 1 barrel water/24 hrs.
Will leave production set at this rate.
- FINAL REPORT

ALLIED CEMENTING CO., INC.

3265

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

SERVICE POINT: _____

ORIGINAL

15-153-20803-00-00

DATE <u>6-6-75</u>	SEC <u>2S</u>	TWP <u>1-S</u>	RANGE <u>33W</u>	CALLED OUT <u>8:00 Am</u>	ON LOCATION <u>8:30 Am</u>	JOB START <u>1:00AM</u>	JOB FINISH <u>1:30AM</u>
LEASE <u>Wichita</u>	WELL# <u>0-2</u>	LOCATION <u>B2W 1/4 Herndon</u>			COUNTY <u>Rawl</u>	STATE <u>Ks</u>	

OLD OR NEW (Circle one)

CONTRACTOR Abercrombie Drlg
 TYPE OF JOB Surface
 HOLE SIZE 12 1/2 T.D. 321
 CASING SIZE 8 1/2 DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 11 1/2 DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____

OWNER _____
 CEMENT
 AMOUNT ORDERED 225 lbs 6-1/4 4 1/2 CC 2 1/2 Gal
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____
 TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Bill
 # 191 HELPER Will H
 BULK TRUCK
 # _____ DRIVER Jason
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Paper per 316
Chart 225 6-1/4 3-2
Pump Plug w/ 18.7 lbs
Chart dist in

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG Wood _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

CHARGE TO: Thunderbird Drlg Inc.
 STREET P.O. Box 780407
 CITY Wichita STATE Ks ZIP 67278

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]

ORIGINAL

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



HALLIBURTON
ORIGINAL

INVOICE

INVOICE NO.	DATE
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15-153-20803-00-00 806850 06/13/1995

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
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WAHRMAN "B" 2	RAWLINS	KS	SAME
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SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
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HAYS	ABERCROMBIE #8	CEMENT PRODUCTION CASING	06/13/1995
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ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
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889807	CLAUDE BLAKESLEY			COMPANY TRUCK	91717
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THUNDERBIRD DRILLING INC
BOX 97
ELLINWOOD, KS 67526

DIRECT CORRESPONDENCE TO:
P.O. BOX 1598
LIBERAL, KS 67905-0000

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	4040	FT	1,670.00	1,670.00
		1	UNT		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	95.00	95.00 *
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA	73.00	73.00 *
815.19101					
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					
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
045-050	COMPUPAC SYSTEM W/HALLIBURTON	1	JOB	600.00	N/C
		1	DAY		
504-308	CEMENT - STANDARD	150	SK	8.86	1,329.00 *
504-130	CEMENT - 50/50 POZMIX STANDARD	20	SK	6.75	135.00 *
506-121	HALLIBURTON-GEL 2%	1	LB	.00	N/C *
507-277	HALLIBURTON-GEL BENTONITE	1	SK	18.60	18.60 *
509-968	SALT	650	LB	.15	97.50
507-775	HALAD-322	56	LB	7.00	392.00 *
507-970	D-AIR 1, POWDER	35	LB	3.25	113.75 *
508-127	CAL SEAL 60	7	SK	25.90	181.30 *
500-207	BULK SERVICE CHARGE	191	CFT	1.35	257.85 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	1263.023	TMI		1,199.87 *

RECEIVED
STATE CORPORATION COMMISSION

INVOICE SUBTOTAL

JUN 29 1995

7,181.37

***** 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 amount plus all collection costs.

ORIGINAL

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



INVOICE

15-153-20803-00-00

ORIGINAL

INVOICE NO.	DATE
806850	06/13/1995

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
WAHRMAN "B" 2	RAWLINS	KS	SAME

SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
HAYS	ABERCROMBIE #8	CEMENT PRODUCTION CASING	06/13/1995

ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
889807	CLAUDE BLAKESLEY			COMPANY TRUCK	91717

THUNDERBIRD DRILLING INC
BOX 97
ELLINWOOD, KS 67526

DIRECT CORRESPONDENCE TO:
P.O. BOX 1598
LIBERAL, KS 67905-0000

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT-(BID)				1,830.65-
	INVOICE BID AMOUNT				5,350.72
	*-KANSAS STATE SALES TAX				155.34
	*-HAYS CITY SALES TAX				31.70
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$5,537.76



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 shall pay a fee of 20% of the unpaid account, plus all collection and court costs.