

ORIGINAL

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 B. KRUEGER

Phone (____) 316-685-1441

Contractor: Name: ABERCROMBIE RTD, INC.

License: 30684

Wellsite Geologist: Todd Aikins, III

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: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back _____ PBTB
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) _____ Docket No. _____

6-21-96 6-26-96 6-27-96
Spud Date Date Reached TD Completion Date

API NO. 15- 153-20,810-00-00

County RAWLINS COUNTY, KANSAS

- NE - SE - SW Sec. 25 Twp. 1S Rge. 32 X ^E _W

990 Feet from (S) (circle one) Line of Section

2310 Feet from (W) (circle one) Line of Section

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

Lease Name WAHRMAN "E" Well # 1

Field Name BEAVER CREEK

Producing Formation LKC "J" zone

Elevation: Ground 2802' KB 2807'

Total Depth 4032' PBTB _____

Amount of Surface Pipe Set and Cemented at 324 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 Att. 1, 2-13-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 700 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 9-5-96

Subscribed and sworn to before me this 5th day of September, 19 96.

Notary Public [Signature]

Date Commission Expires 4-16-98

GLENDIA FUNK
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
(Specify)

RECEIVED
KANSAS CORPORATION COMMISSION

Form ACO-1 (7-91)

SEP 06 1996
09-06-1996
CONSERVATION DIVISION
WICHITA, KS

Operator Name THUNDERBIRD DRILLING, INC. Lease Name WAHRMAN "E" Well # 1

Sec. 25 Twp. 1S Rge. 32 East West
 County RAWLINS COUNTY, KANSAS

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 & Neutron/Density Porosity

Log Formation (Top), Depth and Datums Sample

Name _____ Top _____ Datum _____

See attached

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 1/4"	8 5/8"	28#	324	60/40 poz	225	2%gel, 3%cc
Production	7 7/8"	4 1/2"	10.5#	4022	20 bbl. clay fixed 500 gal. mud flush EA ² cement	150	water

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	3930-34	500 gal 15% Mud Acid 3000 gal 20% NE acid	

TUBING RECORD Size 2 3/8" Set At 4028 Packer At _____ Liner Run Yes No

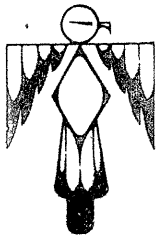
Date of First, Resumed Production, SWD or Inj. _____ Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil <u>35</u> Bbls.	Gas _____ Mcf	Water <u>4%</u> Bbls.	Gas-Oil Ratio _____	Gravity <u>34</u>
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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 3930
3934



Thunderbird Drilling Inc.

ORIGINAL

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

DAILY DRILLING REPORT

#1 Wahrman "E"
NE SE SW Sec. 25-1S-32W
Rawlins County, KS
Elevation: 2802 GR, 2807 KB

15-153-20810-00-00

TOPS:	Sample	Log
Anhydrite	2579 + 228	2580 + 227
B/Anhy	2616 + 191	2616 + 191
Topeka	3560 - 751	3557 - 750
Heebner	3726 - 918	3720 - 913
LKC	3756 - 949	3750 - 943
D zone		3802 - 995
J zone		3930 -1123
BKC		4013 -1206
TD		4033 -1266

- 6-20-96 Moving in and rigging up
- 6-21 Spud @ 1:15 PM. Ran 8 jts. 8 5/8", 28# set @ 324' with 225 sks. 60/ 40 pos., 2% gel, 3% cc. Plug down @ 6:30 PM 6-21. Drilled plug @ 2:30 AM on 22nd.
- 6-22 Drilling @ 866'
- 6-23 Drilling @ 2659'
- 6-24 Drilling @ 3679'
- 6-25 Drilling @ 3867'
DST #1 (Oread) 3680-3720. Open 30-60-45-60. Rec. 62' thin mud w/scum of oil and 496' salt water. IFP 73-104#, FFP 209-240#, SIP 1200-1170#.
- 6-26 Drilling ahead after DST #3
DST #2 3817-3870 (G Zone) Open 30-60-45-60. Rec. 496' of gas in pipe, 372' oil (34° API), 124' gassy oil cut mud (40% oil). IFP 85-106, FFP 149-181, SIP 1212-1170#.
DST #3 3903-3950 (J Zone) Open 30-60-30-60. Rec. 2' oil, 15' oil cut mud (5% oil) IFP 53-53, FFP 53-53, SIP 1086-1012.
- 6-27 Waiting on cement, RTD 4030' Log. Run 4 1/2" casing set @ 4022' w/150 sx EAZ. PD @ 4:30 A.M.
- 7-10 Move in completion unit. Log, perforate "J" zone 3930-34'. Swab down, no recovery. Acidize w/500 gal 15% NE. Swab load & test 5 BO/30". Retreat with 3000 gal NE. Swab 98 bbl. of 113 bbl. load. Shut down for night.
- 7-11 1030' oil in hole. Tested 17.5 bbls **RECEIVED** hrs.
- 7-12 Put on pump
- 7-31 Produced 50 BO-No water
- 8-1 Produced 49 BO-NW
- 8-2 Produced 50 BO-NW

KANSAS CORPORATION COMMISSION

SEP 06 1996

CONSERVATION DIVISION
WICHITA, KS

CUSTOMER COPY



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

INVOICE

15-153-20810-00-00

ORIGINAL

INVOICE NO.	DATE
103572	06/27/1996

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
WAHRMAN "E" 1		RAWLINS		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
HAYS		ABERCROMBIE DRILLING CEMENT PRODUCTION CASING		06/27/1996	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
889A07	CLAUDE BLAKESLEY			COMPANY TRUCK	10130

DIRECT CORRESPONDENCE TO:

THUNDERBIRD DRILLING INC
BOX 97
ELLINWOOD, KS 67526

P O BOX 428
HAYS KS 67601
913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT - (BID)				1,953.43
	INVOICE BID AMOUNT				5,559.85
	*-KANSAS STATE SALES TAX				157.82
	*-HAYS CITY SALES TAX				32.20
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$5,749.87

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KANSAS CORPORATION COMMISSION

SEP 06 1996

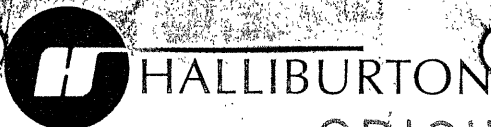
CONSERVATION DIVISION
WICHITA, KS

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.

REMIT TO:

P.O. BOX 951046
DALLAS, TX 75395-1046

CUSTOMER COPY



ORIGINAL

INVOICE

15-153-20810-00-00

INVOICE NO.	DATE
103572	06/27/1996

WELL LEASE NO./PROJECT		WELL/PROJECT/LOCATION		STATE	OWNER
WAHRMAN "E" 1		RAWLINS		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
HAYS		BERCROMBIE DRILLING	CEMENT PRODUCTION CASING		06/27/1996
ACCT. NO.	CUSTOMER AGENCY	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
449802	CLAUDE BLAKESLEY			COMPANY TRUCK	10130

RECEIVED

DIRECT CORRESPONDENCE TO:

THUNDERBIRD DRILLING INC
BOX 97
ELLINWOOD, KS 67526

KANSAS CORPORATION COMMISSION

P O BOX 428
HAYS KS 67601
913-625-3431

SEP 06 1996

REFERENCE NO.	DESCRIPTION	CONSERVATION DIVISION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT						
000-117	MILEAGE CEMENTING ROUND TRIP		290 MI		2.85	826.50
			1 UNT			
001-016	CEMENTING CASING		4022 FT		1,670.00	1,670.00
			1 UNT			
030-016	CEMENTING PLUG SW ALUM TOP		4.5 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
019-241	CASING SWIVEL W/O WALL CLEANER		1 JOB		185.00	185.00
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		91.00	91.00
815.19101						
27	FILL-UP UNIT 4 1/2"-5"		1 EA		47.00	47.00
815.19113						
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		7.45	149.00
504-308	CEMENT - STANDARD		150 SK		9.57	1,435.50
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
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		181 CFT		1.35	244.35
500-306	MILEAGE CMTG MAT DEL OR RETURN		1253.453 TMI		.95	1,190.78
INVOICE SUBTOTAL						7,513.28

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

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ALLIED CEMENTING CO., INC.

3879

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

ORIGINAL

SERVICE POINT:

OAKLEY

15-153-20810-00-00

DATE <u>6-21-96</u>	SEC. <u>25</u>	TWP. <u>15</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>4:30 PM</u>	JOB START <u>6:00 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>WARRMAN "E"</u>	WELL # <u>1</u>	LOCATION <u>HERNDON 4W-1N-1W</u>		COUNTY <u>HAWKINS</u>	STATE <u>KS</u>		

OLD OR NEW (Circle one)

CONTRACTOR ABERCROMBIE ATO AIB #8
 TYPE OF JOB SURFACE
 HOLE SIZE 12 1/4" T.D. 326'
 CASING SIZE 8 5/8" DEPTH 324'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.

OWNER SAME
 CEMENT
 AMOUNT ORDERED 2255 Ks lot no 40236CC No 6E

EQUIPMENT
 PUMP TRUCK CEMENTER FERRY
 # 300 HELPER WAYNE
 BULK TRUCK
 # 212 DRIVER JEFF
 BULK TRUCK
 # DRIVER

COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 @
 @
 @
 @
 @
 @
 HANDLING @
 MILEAGE @
 TOTAL

REMARKS:

DISPLACEMENT 19 1/4 BBL

~~CEMENT~~ REC'D

SERVICE

DEPTH OF JOB 324'
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE 24' @
 MILEAGE @
 PLUG 8 7/8 SURFACE @
 @
 @

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 06 1996

TOTAL

CHARGE TO: F. HUNDEBERG DALL INC.
 STREET
 CITY STATE ZIP

FLOATEQUIPMENT
CONSERVATION DIVISION
WICHITA, KS

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]