

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: Murfin Drilling Company, Inc.

License: 30606

Wellsite Geologist:

Designate Type of completion

[x] New Well [ ] Re-Entry [ ] Workover

[x] 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:

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.

01-22-98 01-28-98 01-28-98 Spud Date Date Reached TD Completion Date

API NO. 15- 153-208140000

County Rawlins

C - W/2 - SW - NE Sec. 30 Twp. 1S Rge. 31 E W

1980 Feet from S/N (circle one) Line of Section

2310 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 Basgall C Well # 1

Field Name Wildcat

Producing Formation

Elevation: Ground 2766 KB 5

Total Depth 4040' PBTD

Amount of Surface Pipe Set and Cemented at 314 Feet

Multiple Stage Cementing Collar Used? Yes [x] No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan AH-1, 6-8-98 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, 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.

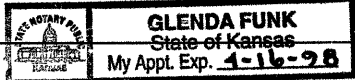
Signature [Signature]

Title President Date 4-14-98

Subscribed and sworn to before me this 14 day of April 19 98

Notary Public [Signature]

Date Commission Expires



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

Operator name Thunderbird Drilling, Inc.

Lease Name Basgall C Well # 1

Sec. 30 Twp. 1S Rge. 31

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.)

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

*See Attached*

List All E.Logs Run:  
 RA Guard Log  
 Neutron/Density Porosity Log

CASING RECORD <u>New</u> <u>Used</u>							
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	12¼"	8⅝"		314'	60/40 Poz, 4% CC, 2& gel	200	
Production		4½"		4039'	Standard 5% cc	150	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top/Btm	Type of Cement	# Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Csg <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	3816-22	Common	100	

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	3956-60	500 MA & 1500 gal 20% NE	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	@	3925	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
MARCH 10, 1998	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other

Estimated Production Per 24 Hours	Oil Bbls	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
	15		0		

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled

3956-60'

DRILLING REPORT  
COMPLETION REPORT

#1 BASGALL "C"

C W/2 SW NE Sec. 30-1S-31W  
Rawlins County, KS  
Elevation 2814 KB

RECEIVED  
KANSAS CORP CONT  
4-15-1998  
1998 APR 15 12:09

ORIGINAL

15-153-20814  
00-00

TOPS:

Anhydrite	2593 + 221
B. Anhy	2629 + 185
Topeka	3576 - 762
Heebner	3742 - 928
Lansing	3770 - 956
"G" zone	3867 -1053
"J" zone	3950 -1136
BKC	4034 -1220

- 1-22-98 Moved in  
1-23 Ran 8 5/8" surface casing set @ 314 feet w/200 sx  
60/40 Poz, 4%cc, 2% gel. PD @ 11:30 PM 1-22.  
At 314' Waiting on cement  
1-26 Drilling ahead  
1-27 DST #1 3780-3835 ("D" zone) Open 30-60-45-60.  
Rec. 186' gas in pipe, 186' clean gassy oil, 62' mud  
cut gassy oil, 124' oil cut gassy mud, 125' slightly  
oil and water cut gassy mud and 62' muddy water.  
Gr 28, FP 39-137 & 177-246, SIP 1116-1086,  
Hydrostatic pressure 2056-1836.  
"G" zone had weak show. Drilling ahead to look at  
"H" zone.  
1-28 DST #2 3920-3970 ("J" zone) Open 30-60-45-60.  
Rec. 10' clean oil (34 Gr), 80' oil cut mud and 30'  
muddy water. FP 74-74 & 117-117, SI 1278-1278,  
Hydrostatic pressure 2061-2029.  
At 4040 TD & logging.  
1-29 Set 97 jts used 10 1/2" # 4 1/2" at 4,039 feet w/150 sx.  
Good circulation. PD 9:00 PM 1-28.  
2-9 Moved in double drum pulling unit.  
2-10 Ran correlation log. Perf. LKC "J" zone 3956-60 &  
"D" zone 3816-22. Ran straddle packers and started  
swabbing well down. Shut down because of weather.  
2-11 2,000 ft. oil & 550' load water in hole. Preparing to  
swab test "D" zone. Set packer over "J" zone 3956-  
3960. Swabbed down and tested 10 BW/hr with show  
of oil. Top packer leaking - No test of "J" zone.  
Pulled packer to "D" zone 3816-22. Set bottom  
packer and acidized "D" zone w/500 gal. MA.  
Started swabbing load. Shut down f/night.  
2-12 500' oil in hole. Preparing to acidize "J" zone.  
Swabbed "D" zone 1 hr. Rec. 10 barrels of fluid,  
77% oil. Acidized with 1,500 gal 20% NE. Swabbed  
load and tested as follows:  
1st hr 32 BF, 63% oil  
2nd hr 34 BF, 50% oil  
3rd hr 28 BF, 50% oil  
4th hr 32 BF, 20% oil  
next 1/2 hr, 16 BF, 5% oil

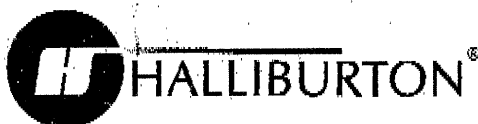
ORIGINAL

15-153-20814  
00-00

- Straddled "J" zone 3956-3960. Swabbed dry and shut down for night.
- 2-13 2,150' oil in hole. Preparing to swab test "D" zone. Acidized "J" zone with 500 gal. MA. Swabbed load and tested 7.37 BF, 92% oil. Acidized with 1,500 gal 20% NE and tested as follows:  
1st hr 19.2 BF, 95% oil  
2nd hr 12.1 BF, 96% oil  
3rd hr 8.77 BF, 96% oil  
Shut down for night
- 2-16 Straddled "D" zone perfs 3816-22 and tested as follows:  
1st hour - 44 BF, 1% oil  
2nd hour - 34 BF, 1% oil  
3rd hour - 32 BF, 4% oil  
Shut down for weekend  
Continue to be shut down on Monday due to weather.
- 2-17 Still too wet to enter well site.
- 2-18 Preparing to squeeze "D" zone.
- 2-19 Preparing to drill out cement.  
Squeezed "D" zone perfs 3816-22 with 100 sx common cement. Washed out 33'. 22' to drill out. Shut down for night.
- 2-20 Drilled out cement to RBP. Pressure tested squeeze job to 500 PSI. Held OK. Pulled bit and ran tubing to retrieve BP. Swabbed dry. Pulled RBP. Shut down for night.
- 2-23 2,000' oil in hole. Running tubing for production. Next report due when well is pumping.
- 3-5-98 Start well pumping 12:00 Noon 3-4-98. Produced 48 BO in 19 hrs (60 BOPD rate). Pumping unit set @ 70 BOPD.
- 3-6 Pumped 46 BO/24 hrs. Well not pumped down. Will speed up unit on 3-9-98.
- 3-7 Pumped 45 BO, NW/24 hrs.
- 3-8 Pumped 41 BO, NW/24 hrs.
- 3-9 Pumped 45 BO, NW/24 hrs.
- The well is not pumped down. We had intended to speed the well up to increase production but 45 BOPD is a respectable rate considering current crude prices. We will continue to produce the well at this rate and speed the well up if crude prices increase. This will be the final report unless production changes.

1998 APR 15 12:09  
4-15-1998

CUSTOMER COPY



REMIT TO:  
P.O. BOX 951056  
DALLAS, TX 75495-1046  
Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES, INC.

INVOICE NO.	DATE
195632	01/28/1998

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
RASOALL C-1	RAWLINS	KS	NAMP		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
HAYS	MURCIN DRILLING	SHOWN BELOW	01/28/1998		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
889807	CLAUDE BLANKSLEY			COMPANY TRUCK	36578

THUNDERBIRD DRILLING INC  
BOX 97  
ELLINWOOD, KS 67526

DIRECT CORRESPONDENCE TO:

1102 E. 8TH  
HAYS KS 67601  
913-625-4431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	230	MI	3.65	839.50
		1	UNT		
001-016	CEMENTING CASING	4039	FT	2,161.00	2,161.00
		1	UNT		
030-016	CEMENTING PLUG SWABDUM TOP	415	LN	50.00	50.00
		1	EA		
018-315	MUD FLUSH	500	GAL	.83	415.00
018-303	CLAYFIX II, PER GAL	2	GAL	30.50	61.00
12A	GUIDE SHOE - 4 1/2" STD TRD.	1	EA	105.00	105.00
325,201					
40	CENTRALIZER 4-1/2 X 7-7/8	2	EA	59.00	418.00
806,60004					
24A	INSERT FLOAT VALVE - 4 1/2" STD	1	EA	110.00	110.00
815,19101					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	60.00	60.00
815,19113					
504-308	CEMENT - STANDARD	150	SK	12.13	1,819.50
504-130	CEMENT - 50/50 MIX STANDARD	20	SK	8.73	154.60
506-121	HALLIBURTON-GEL 2X	1	LB	.00	N/C
507-277	HALLIBURTON-GEO. BENTONITE	1	SK	22.90	22.90
509-968	SALT	650	LB	.18	117.00
507-775	HALAD-322	56	LB	7.70	431.20
508-327	CAL SEAL 60	7	SK	28.00	196.00
507-970	D-AIR 1, POWDER	38	LB	4.27	162.26
500-907	BULK SERVICE CHARGE	191	OFT	1.64	317.06
500-306	MILEAGE CRTG MAT DEL OR RETURN	988.540	TMI	1.25	1,235.68
JOB PURPOSE SUBTOTAL					8,700.70

115-114  
MIP

BC

\*\*\*\*\* 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 more than 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer

# ALLIED CEMENTING CO., INC. 8631

Federal Tax I.D. [REDACTED]

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

RECEIVED  
KANSAS CORP CO  
4-15-1998  
1998 APR 15 P 12:09  
SERVICE POINT:  
Oakley

DATE <u>2-18-98</u>	SEC. <u>30</u>	TWP. <u>13</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION <u>11:45 AM</u>	JOB START <u>12:15 AM</u>	JOB FINISH <u>4:30 PM</u>
LEASE <u>Baswell "C"</u>	WELL # <u>1</u>	LOCATION <u>Herman 3/4 W 1/2 N 1/4 W 1/2 N 1/2 W</u>			COUNTY <u>Rawlins</u>	STATE	
OLD OR NEW (Circle one) <u>NEW</u>				<u>3/4 N 1/2 W 1/2 S</u>			

CONTRACTOR Paas Well Service OWNER same

TYPE OF JOB Squeeze

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE 2 7/8 DEPTH 3859'

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL B Plug DEPTH 3876'

PRES. MAX 1800# MINIMUM 500#

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. 3816-22', 3956-60'

DISPLACEMENT \_\_\_\_\_

### EQUIPMENT

PUMP TRUCK CEMENTER Dean + Walt

# 191 HELPER Jeff

BULK TRUCK \_\_\_\_\_

# 212 DRIVER Andrew

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 100sks com 3% cc on side

COMMON \_\_\_\_\_

POZMIX \_\_\_\_\_

GEL \_\_\_\_\_

CHLORIDE \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

HANDLING \_\_\_\_\_

MILEAGE \_\_\_\_\_

TOTAL \_\_\_\_\_

### REMARKS:

Pressured B Plug to 1800# OK  
circulated oil out of Hole, SpT  
2sks sand qt 3828' Pulled 2 joints  
to 3764 Set Packet took in so Rate  
4 Blt min 500 #, Mix 75sk w/ 2% cc  
followed w 25sk com, Squeezed to 1800#  
OK, tried to wash out, 70 Hart pulled  
2 joints and checked squeeze, OK  
Pressured back side to 500# OK before squeeze

### SERVICE

DEPTH OF JOB 3859'

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_

MILEAGE \_\_\_\_\_

PLUG \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TOTAL \_\_\_\_\_

CHARGE TO: Thunderbird Drlg 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 Claude Blakesley

Claude Blakesley

PRINTED NAME

RECEIVED  
WASAS CORP COMM  
4-15-1998  
1998 APR 15 2:00

RUSSELL, KS 67665  
PH (785) 483-3887  
FAX (785) 483-5566

Invoice Number: 076954

Invoice Date: 01/30/98

15-153-20814-00-00

1500

ORIGINAL

Sold Thunderbird Drilling, Inc  
To: P. O. Box 97  
Ellinwood, KS  
67526

Cust. I.D.: Thun  
P.O. Number.: Basgall "C" #1  
P.O. Date.: 01/30/98

Due Date.: 03/01/98  
Terms.: Net 30

Item I.D./Desc	Qty. Used	Unit	Price	Net	TX
Common	120.00	SKS	7.5500	906.00	E
Pozmix	80.00	SKS	3.2500	260.00	E
Gel	4.00	SKS	9.5000	38.00	E
Chloride	9.00	SKS	28.0000	252.00	E
Handling	200.00	SKS	1.0500	210.00	E
Mileage (.68)	68.00	MILE	8.0000	544.00	E
200 sks @\$ .04 per sk per mi					
Surface	1.00	JOB	470.0000	470.00	E
Mileage pmp trk	68.00	MILE	2.8500	193.80	E
Surface plug	1.00	EACH	45.0000	45.00	E

All Prices Are Net, Payable 30 Days Following Subtotal: 2918.80  
 Date of Invoice: 1-1/2% Charged Thereafter Tax: 0.00  
 If Account CURRENT take Discount of \$ 437.82 Payments: 0.00  
 ONLY if paid within 30 days from Invoice Date Total: 2918.80

115-114  
BCP

2480.98  
FEB - 3 1998

