API NO. 15-152-208140000
County __ Rawlins
C_ W2 - SW - NE Sec. 30 Twp. 15 Rge. 31 x 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:
SE, NW or SW (circle one)
Lease Name Baggall C Well # 1
Field Name Wildcat
Producing Formation __________
Elevation: Ground 2766 KB 5
Total Depth 4040' PBDT __________
Amount of Surface Pipe Set and Cemented at 314 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
(Data must be collected from the Reserve Pd)
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. 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 ____________________________
Title __________ Date 4-14-98
Subscribed and sworn to before me this 14 day of April 1998
Notary Public __________
Date Commission Expires __________
Operator name: Thunderbird Drilling, Inc.

Lease Name: Baggall C

Well #: 1

Sec. 30 Twp. 1S Rge. 31

East

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 copy of log.

Drill Stem Tests Taken
(Attach Additional Sheets.)

☐ Yes ☐ No

☐ Log Formation (Top), Depth and Datums Sample

Name
Top Datum

☐ Yes ☐ No

See Attached

Samples Sent to Geological Survey

☐ Yes ☐ No

Cores Taken

☐ Yes ☐ No

Electric Log Run
(Submit Copy.)

☐ Yes ☐ No

List All Logs Run:

RA Guard Log
Neutron/Density Porosity Log

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole Drilled</th>
<th>Size Casing Set (In O.D.)</th>
<th>Weight Lbs./Ft.</th>
<th>Setting Depth</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
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</thead>
<tbody>
<tr>
<td>Surface</td>
<td>12 1/2&quot;</td>
<td>8 1/16&quot;</td>
<td>314'</td>
<td>60/40 Poz.</td>
<td>4% CC, 2&amp; gel</td>
<td>200</td>
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<tr>
<td>Production</td>
<td>4 1/2&quot;</td>
<td></td>
<td>4039'</td>
<td>Standard 5% cc</td>
<td></td>
<td>150</td>
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</table>

ADDITIONAL CEMENTING/SQUEEZE RECORD

<table>
<thead>
<tr>
<th>Depth</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>3816-22</td>
<td>Common</td>
<td>100</td>
<td></td>
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</tbody>
</table>

Shots Per Foot: PERFORATION RECORD - Bridge Plugs

Set/Type Specify Footage of Each Interval Perforated

4

3956-60

500 MA & 1500 gal 20\% NE

TUBING RECORD Size Set At Packer At Liner Run

2 3/8 @ 3925

Date of First, Resumed Production, SWD or Inj.

MARCH 10, 1998

Producing Method

☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other

Estimated Production Per 24 Hours

Oil Bbls. 15

Gas Mcf

Water Bbls. 0

Gas-Oil Ratio

Gravity

Disposition of Gas:

☐ Vented ☐ Sold ☐ Using on Lease

(IF vented, submit ACO-18)

☐ 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

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 Pozz, 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 1/3 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
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.
THUNDERHILL DRILLING INC  
PO BOX 37  
ELLINWOOD, KS 67526  

DIRECT CORRESPONDENCE TO:  
1102 E. 8TH  
HAYS KS 67601  
913-825-3471  

<table>
<thead>
<tr>
<th>REFERENCE NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>CM</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
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<tbody>
<tr>
<td>009-117</td>
<td>MILEAGE CEMENTING ROUND TRIP</td>
<td>230 MI</td>
<td>1 UNT</td>
<td>83.65</td>
<td>839.50</td>
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<tr>
<td>001-016</td>
<td>CEMENTING CASING</td>
<td>4039 FT</td>
<td>1 UNT</td>
<td>2.181.00</td>
<td>2.181.00</td>
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<td>080-016</td>
<td>CEMENTING PLUG &amp; AIR CAPS</td>
<td>4,500 YD</td>
<td>1 UNT</td>
<td>50.00</td>
<td>50.00</td>
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<tr>
<td>018-315</td>
<td>MUD FLUSH</td>
<td>500 GAL</td>
<td>1 EA</td>
<td>0.83</td>
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<td>018-315</td>
<td>CLAYFIX II, PER GALL</td>
<td>2 GALL</td>
<td>1 EA</td>
<td>35.50</td>
<td>61.00</td>
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<tr>
<td>122A</td>
<td>GUIDE SHOE - 1 1/2&quot; AND THRO.</td>
<td>1 EA</td>
<td>105.00</td>
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<tr>
<td>018-305</td>
<td>CENTRALIZER 4-1/2 X 7-7/8</td>
<td>7 EA</td>
<td>89.00</td>
<td>413.00</td>
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<td>018-305</td>
<td>INSERT FLOAT VALVE - 4 1/2&quot; AND</td>
<td>1 EA</td>
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<td>018-305</td>
<td>FILL-UP UNIT 4 1/2&quot;-S&quot;</td>
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<td>018-305</td>
<td>CEMENT - STANDARD</td>
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<td>CEMENT - 50/50 FORMIX STANDARD</td>
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<td>HALLIBURTON-CEL, DENTONITE</td>
<td>27.90</td>
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<td>HALAL-322</td>
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<td>CAL SEAL 80</td>
<td>28.00</td>
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<td>018-305</td>
<td>D-AIR 1 POWDER</td>
<td>4.27</td>
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<td>BULK SERVICE CHARGE</td>
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<td>018-305</td>
<td>MILEAGE CMTG MAL DEL OR RETURN</td>
<td>1.25</td>
<td>100.00</td>
<td>125.00</td>
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**Note:** 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. A customer has an approved open account, invoices are payable on the fifteenth 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. 

TERMS: 

**CONTINUED ON NEXT PAGE**
**ALLIED CEMENTING CO., INC.**

**REMIT TO**
PO. BOX 31
RUSSELL, KANSAS 67665

**SERVICE POINT:**

<table>
<thead>
<tr>
<th>DATE</th>
<th>2-18-98</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC.</td>
<td>30</td>
</tr>
<tr>
<td>TWP.</td>
<td>15</td>
</tr>
<tr>
<td>RANGE</td>
<td>31W</td>
</tr>
<tr>
<td>CALLED OUT</td>
<td>7:45 AM</td>
</tr>
<tr>
<td>ON LOCATION</td>
<td>11:45 AM</td>
</tr>
<tr>
<td>JOB START</td>
<td>12:15 PM</td>
</tr>
<tr>
<td>JOB FINISH</td>
<td>4:30 PM</td>
</tr>
</tbody>
</table>

**CONTRACTOR**

| Well Service | Some |

**TYPE OF JOB**

| Squeeze |

**HOLE SIZE**

| T.D. |

**CASING SIZE**

| Depth |

**TUBING SIZE**

| 2 3/4 |

**DRILL PIPE**

| Depth |

**TOOL**

| Plug |

**PRESS. MAX**

| 7800 |

**MEAS. LINE**

| SHOE JOINT |

**CEMENT LEFT IN CSG.**

| 3818-22' |

**PERFS.**

| 3936-60' |

**DISPLACEMENT**

| 165 |

**EQUIPMENT**

| PUMP TRUCK |
| # 171 |
| CEMENTER Dean + WALT |
| HELPER Jeff |

| BULK TRUCK |
| # 212 |
| DRIVER Andrew |

**REMARKS:**

- Pressured B Plug to 1800# OK
- Circulated Oil out of hole, 9/7
- 250 gal 97 3828# Pulled 2 Face
- 97 3764 # Set Parker Tool in 9 1/2 Rtp
- 50# # 75# W/3% CO
- Followed in 2 3/4" # Cemented to 1800# OK
- Tried to wash out, lost Hard pulled 2 joints and checked squeeze, OK
- Pressured back side to 900# 30# 30# before squeeze

**CHARGE TO:**

Thunderbird Drl Inc

**SERVICE**

| DEPTH OF JOB | 3828 |
| PUMP TRUCK CHARGE |
| EXTRA FOOTAGE |
| MILEAGE |
| PLUG |

**FLOAT EQUIPMENT**

| |
| |
| |

**TAX**

**TOTAL CHARGE**

**DISCOUNT**

**IF PAID IN 30 DAYS**

Claude Blakley

**PRINTED NAME**

---

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.

**SIGNATURE**

Claude Blakley

---
**Invoice Number:** 076954  
**Invoice Date:** 01/30/98

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

**Cust I.D:** Thunderbird Drilling, Inc  
**P.O. Number:** Basgall "C" #1  
**P.O. Date:** 01/30/98  
**Due Date:** 03/01/98  
**Terms:** Net 30

<table>
<thead>
<tr>
<th>Item I.D. / Desc.</th>
<th>Qty.</th>
<th>Unit</th>
<th>Price</th>
<th>Net</th>
<th>Tax</th>
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<tbody>
<tr>
<td>Common</td>
<td>120</td>
<td>SKS</td>
<td>7.5500</td>
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<td>Mileage (68)</td>
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<td>8.0000</td>
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<td>200 sks @ $ .04 per sk per mi</td>
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<tr>
<td>Surface</td>
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<td>Surface plug</td>
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All Prices are Net, Payable 30 Days Following

**Subtotal:** 2918.80

**Date of Invoice:** 1/1/98

**Charged Thereafter:** 0.00

**If Account CURRENT take Discount of $437.82 Payments:** 0.00

**ONLY if paid within 30 days from Invoice Date**

**Total:** 2480.98

**FEB - 3 1998**