

ORIGINAL
SIDE ONE

15163-23143-0000

RELEASED

CONFIDENTIAL

APR 09 1992

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

API NO. 15- 163-23,143-00-00
County Rooks FROM CONFIDENTIAL

Operator: License # 5140
Name: FRONTIER OIL COMPANY
Address 125 N. Market, Ste. 1720
City/State/Zip Wichita, KS 67202

NE NW Sec. 15 Twp. 7S Rge. 19 X East West
4620 Ft. North from Southeast Corner of Section
3300 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

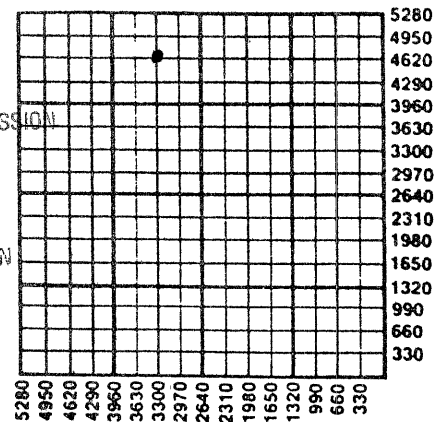
Purchaser: Clear Creek
Operator Contact Person: Jean Angle
Phone (316) 263-1201

Lease Name Burton Well # 1
Field Name Grover
Producing Formation Lansing-Kansas City
Elevation: Ground 1970 KB 1975
Total Depth 3448 PBTD 3395

Contractor: Name: RED TIGER DRILLING CO.
License: 5302
Wellsite Geologist: Steve Parker

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STATE CORPORATION COMMISSION
3/28/91
MAR 28 1991
CONSERVATION DIVISION
Wichita, Kansas

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)



If OWO: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Amount of Surface Pipe Set and Cemented at 262 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1440
feet depth to 0 w/ 370 sx cmt.

Drilling Method:
 Mud Rotary Air Rotary Cable
2-6-91 2-14-91 3-21-91
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Jean Angle
Title Agent Date 3-27-91

Subscribed and sworn to before me this 27th day of March, 19 91.

Notary Public D'ANN DRENNAN
NOTARY PUBLIC
STATE OF KANSAS
Date 3-27-91

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

SIDE TWO

Operator Name FRONTIER OIL COMPANY Lease Name Burton Well # 1

Sec. 15 Twp. 7S Rge. 19 East West **CONFIDENTIAL** Rooks

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. (Log Attached)

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.)

| Name | Formation Description | |
|-----------------|-----------------------|--------|
| | Top | Bottom |
| ANHYDRITE | 1483 | +492 |
| TOPEKA | 2924 | -949 |
| HEEBNER | 3127 | -1152 |
| TORONTO | 3152 | -1177 |
| LANSING-KS CITY | 3167 | -1192 |
| BASE KS CITY | 3388 | -1413 |
| RTD | 3448 | -1473 |

DST #1 (3121-3190) 60-30-60-30. Rec. 30' GIP, 90' GOCM. IF 66-91, FF 107-124, ISIP 637, FSIP 595.
DST #2 (3215-3272) 60-30-15-30. Rec. 30' SOCM, 50' SOCM. IF 49-66, FF 82-82, ISIP & FSIP 545
 cont'd.

CASING RECORD New 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 1/2" | 8 5/8" (new) | 20# | 262 | 60-40POZ | 160 | 2% gel, 3% cc |
| Production | 7-7/8" | 4 1/2" (used) | 10 1/2# | 3430 | Com | 165 | 10% salt |

| Shots Per Foot | Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|---|--|-------|
| 4 | 3366-70 | 500 gal 15% NE Acid | |
| 4 | 3344-48 | 500 gal 15% NE Acid | |
| 2 | 3264-72 | 500 gal 15% NE Acid | |
| 2 | 3256-60 | 500 gal 15% NE Acid | |
| 2 | 3230-34 | 500 gal 15% NE Acid | |
| 2 | 3170-80 | 500 gal 15% NE Acid | |
| | | Squeezed w/320 sx 60-40 poz. | 1000' |

TUBING RECORD Size 2-3/8" Set At 3372 Packer At N/A Liner Run Yes No 8% gel & 50 sx com. 3% CC

Date of First Production 3-21-91 Producing Method Flowing Pumping Gas Lift Other (Explain)
 Estimated Production Per 24 Hours: Oil 40 BOPD Bbls. Gas N/A Mcf Water 15 BWPD Bbls. Gas-Oil Ratio N/A Gravity 33

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) **METHOD OF COMPLETION** Open Hole Perforation Dually Completed Commingled Other (Specify) _____ Production Interval All intervals shown in Perforation Record

CONFIDENTIAL

CONFIDENTIAL ORIGINAL

SIDE TWO (Page Two)

ACO-1 WELL HISTORY

OPERATOR FRONTIER OIL COMPANY LEASE NAME Burton # 1 SEC. 15 TWP. 7S RGE. 19W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

| FORMATION DESCRIPTION, CONTENTS, ETC. | TOP | BOTTOM | NAME | DEPTH |
|--|-----|--------|---|-------|
| <p>DST #3 (3304-3375) 60-30-60-30. Rec. 50' SOCM. IF 10-20, FF 20-20, ISIP 948 FSIP 350.</p> <p style="text-align: center;">CONFIDENTIAL</p> | | | <p>RELEASED APR 09 1992 FROM CONFIDENTIAL</p> | |

RECEIVED
STATE OF TEXAS COMMISSION
3/28/91
MAR 28 1991
CO - ...

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

ORIGINAL CONFIDENTIAL

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31 Russell, Kansas 67665

APR 0 9 1991

New

| | | | | | | | |
|---------------------|----------------|-------------------|-----------------|--|----------------------------|--------------------------|-----------------------|
| Date <i>2.6.91</i> | Sec. <i>15</i> | Twp. <i>7</i> | Range <i>19</i> | Called Out <i>10:30 AM</i> | On Location <i>1:30 PM</i> | Job Start <i>3:45 PM</i> | Finish <i>4:15 PM</i> |
| Lease <i>Burton</i> | | Well No. <i>1</i> | | Location <i>Webster lake turnoff 1W 134N</i> | | County <i>Rock</i> | State <i>Kansas</i> |

Contractor *Red Tiger*

Type Job *Surface*

| | |
|--------------------------------|--|
| Hole Size <i>12 1/4</i> | T.D. <i>267'</i> |
| Csg. <i>8 5/8</i> | Depth <i>262'</i> |
| Tbg. Size | Depth |
| Drill Pipe | Depth |
| Tool | Depth |
| Cement Left in Csg. <i>15'</i> | Shoe Joint |
| Press Max. | Minimum |
| Meas Line <i>NO</i> | Displace <i>16.1 bbl</i> <i>17.08</i> |

Perf.

Owner *Frontier*

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 listed.

Charge To *Frontier Oil Co.*

Street *1437 N. Franklin*

City *Russell* State *Ks 67665*

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.

x Morris Leech Jr.

CEMENT

EQUIPMENT

Ness City

| No. | Cementer | Helper | Driver |
|--------------|----------------------|---------------------|-------------------|
| <i># 158</i> | | | |
| <i># 116</i> | <i>J.D. Drilling</i> | <i>BILL Schmitt</i> | <i>BILL White</i> |

Amount Ordered *160 yd 60/40 poz 2% gel 3% CC.*

Consisting of

| | | | |
|----------|-----------|--------------|---------------|
| Common | <i>96</i> | <i>5.25</i> | <i>504.00</i> |
| Poz. Mix | <i>64</i> | <i>2.25</i> | <i>144.00</i> |
| Gel. | <i>3</i> | <i>6.75</i> | <i>NIC</i> |
| Chloride | <i>5</i> | <i>21.00</i> | <i>105.00</i> |
| Quickset | | | |

DEPTH of Job

| | | |
|------------|--------------------------|---------------|
| Reference: | <i>Pump truck charge</i> | <i>380.00</i> |
| <i>25</i> | <i>Mileage</i> | <i>50.00</i> |
| <i>1</i> | <i>8 5/8 TWP</i> | <i>42.00</i> |
| | Sub Total | |
| | Tax | |
| | Total | <i>472.00</i> |

| | | |
|---------------------|-------------|----------------|
| Handling <i>160</i> | <i>1.00</i> | <i>160.00</i> |
| Mileage <i>25</i> | | <i>160.00</i> |
| | Sub Total | |
| | Total | <i>1073.00</i> |

Remarks: *Cement did circulate when plug was released. 17 bbl cement circulated.*

Thank you.

Floating Equipment

TOTAL \$ 1545.00

Disc - 309.00

\$ 1236.00

RECEIVED
TELEPHONE COMMISSION
3/28/91
MAR 28 1991
COMM. DIVISION
Wichita, Kansas

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

CONFIDENTIAL

RELEASED

ORIGINAL

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

APR 09 1992
No. 9705

FROM CONFIDENTIAL

| Date | Sec. | Twp. | Range | Called Out | On Location | Job Start | Finish |
|---------------------|------|-------------------|-----------------|--|-------------|---------------------|------------------|
| 2-14-91 | 15 | 7 ^s | 19 ^w | 11:00 A.M. | 2:45 P.M. | 5:20 P.M. | 6:30 P.M. |
| Lease <i>Bunton</i> | | Well No. <i>1</i> | | Location <i>Webster Dam 2N 1/2 W 1/8 S</i> | | County <i>Reels</i> | State <i>Ks.</i> |

| | | |
|---------------------------------------|------------|----------------|
| Contractor <i>Red Tiger Dalg. Co.</i> | | Rig # <i>8</i> |
| Type Job <i>Production String</i> | | |
| Hole Size <i>7 7/8"</i> | T.D. | <i>3448'</i> |
| Csg. <i>4 1/2"</i> | Depth | <i>3430'</i> |
| Csg. Size <i>8 7/8"</i> | Depth | <i>262'</i> |
| Drill Pipe | Depth | |
| Tool | Depth | |
| Cement Left in Csg. <i>29'</i> | Shoe Joint | <i>28.74'</i> |
| Press Max. <i>1000 #</i> | Minimum | |
| Meas Line <i>X</i> | Displace | |
| Perf. | | |

| |
|---|
| Owner <i>Same</i> |
| 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 listed. |
| Charge To <i>Frontier Oil Company</i> |
| Street <i>1437 N. Franklin</i> |
| City <i>Russell</i> State <i>Ks.</i> <i>67665</i> |
| The above was done to satisfaction and supervision of owner agent or contractor. |
| Purchase Order No. <i>[Signature]</i> |
| X <i>[Signature]</i> |

CEMENT

| | |
|--|-----------------|
| Amount Ordered <i>175 sks com 10% salt</i> | |
| Consisting of | |
| Common <i>175 sks @ 25/sk.</i> | <i>#918.75</i> |
| Poz. Mix | |
| Gel. | |
| Chloride | |
| Quickset | |
| <i>Salt - 17 sks @ 4.75/sk.</i> | <i>80.75</i> |
| Sales Tax | |
| Handling <i>2.00/sk. (175 sks)</i> | <i>175.00</i> |
| Mileage <i>2044/sk./mi. (25 mi.)</i> | <i>175.00</i> |
| Sub Total | <i>#1349.50</i> |
| Total | |

EQUIPMENT

| | | |
|---------------------|----------|------------------|
| No. | Cementor | <i>Gary H.</i> |
| Pumptrk <i>191</i> | Helper | <i>Marlyn K.</i> |
| No. | Cementor | |
| Pumptrk | Helper | |
| | Driver | <i>Wayne Mc.</i> |
| Bulktrk <i>#212</i> | | |
| Bulktrk | Driver | |

DEPTH of Job

| | | |
|----------------------|------------------------------|----------------|
| Reference: <i>#1</i> | <i>Pumptruck-long string</i> | <i>#880.00</i> |
| <i>#13</i> | <i>mileage @ 2.00/mi.</i> | <i>50.00</i> |
| | <i>1-4 1/2" rubber plug</i> | <i>33.00</i> |
| | Sub Total | <i>#963.00</i> |
| | Tax | |
| | Total | |

Remarks: *plugged rat hole w/15 sks.*

Float Held.

Floating Equipment *Thanks*

STATE COMMISSION
3/28/91
MAR 28 1991

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31 Russell, Kansas 67665

RELEASED No 1848

APR 19 1992

New

Date **3-8-91** Sec **15** Twp **27** Range **19** Called Out **8:00 AM** On Location **8:30 PM** Job Start **1:00 PM** Finish

Lease **Burton** Well No. **1** Location **Webster Dam + old 29** County **Books** State **Ks**

Contractor **Leans Cable Tools** Owner **INew**

Type Job **Squeeze (Circulate Cement)**

Hole Size **4 1/2** T.D. **1440**

Csg. **2"** Depth **1440**

Tbg. Size **2"** Depth **1440**

Drill Pipe **Bird Oil** Depth **1440**

Tool **Bird Oil** Depth **1440**

Cement Left in Csg. **Shoe Joint**

Press Max. **Minimum**

Meas Line **Displace**

Perf. **EQUIPMENT**

FROM CONFIDENTIAL

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To **Frontier Oil Company**
Street **1437 N Franklin**
City **Russell** State **Kan 67665**

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. **David J. Gannert**

CEMENT

| | | | |
|---------|----------------|----------|-----------------|
| Pumptrk | No. 153 | Cementer | Dave |
| | | Helper | David |
| Pumptrk | No. 196 | Cementer | Jim |
| | | Helper | Lawrence |
| Bulktrk | No. 155 | Driver | |
| Bulktrk | | Driver | |

| | | | |
|----------------|--|--------------|----------------|
| Amount Ordered | 350.60 | | |
| Consisting of | Used 320 sk 8% gel 75 com 3% cc | | |
| Common | 242 | 5.25 | 1270.50 |
| Poz. Mix | 128 | 2.25 | 288.00 |
| Gel. Used | 23 Chg 17 | 6.75 | 114.75 |
| Chloride | 2 | 21.00 | 42.00 |
| Quickset | | | |
| Handling | 1.00 | | 370.00 |
| Mileage | 2.3 m | .04 | 340.40 |
| Sub Total | | | 2425.65 |
| Total | | | |

DEPTH of Job

| | | |
|------------|---------------------|---------------|
| Reference: | Pump for chg | 475.00 |
| | 1/2 mile | 46.00 |
| Sub Total | | 521.00 |
| Tax | | |
| Total | | |

Remarks: **tested plug @ 1500PSI & held @ pulled to 1440**
circ oil out of hole, set packer, pack injection rate @ 4 BBI @ 500PSI
up circulation mixed 320 sk 8% gel & circ cement to surface
followed up 50 com 3% cc staged & squeezed @ 1000PSI, cleared
around tool & tubing, reset & pressured to 1000PSI & held for 30 mins

MAR 28 1991
3/28/91
CO-SERVATION DIVISION
Wichita, Kansas