

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1
September 1999
Form Must Be Typed

Operator: License # 30160
Name: Clute Oil Corporation
Address: 4300 South Dahlia Street
City/State/Zip: Englewood, CO 80113-6101
Purchaser: Rolling Thunder and NCRA
Operator Contact Person: Peter Clute
Phone: (303) 779-4216
Contractor Name: Mallard JV
License: 4958

Wellsite Geologist: Bruce D. Becker
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSWABICORRORATION COMMISSION)

If Workover/Re-entry: Old Well Info as follows: **JUL 22 2003**

Operator: _____
Well Name: CONSERVATION DIVISION
WICHITA, KS
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

| | | |
|-----------------------------------|------------------|---|
| <u>1/4/2003</u> | <u>1/12/2003</u> | <u>4/30/2003</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 145-21485-0000
County: Pawnee
N/2 NW Sec. 32 Twp. 22 S. R. 17 East West
660 feet from S N (circle one) Line of Section
1320 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Dave Welch Well #: 1
Field Name: North Garfield

Producing Formation: Mississippian and Viola
Elevation: Ground: 2075 Kelly Bushing: 2080
Total Depth: 4300 Plug Back Total Depth: 4256
Amount of Surface Pipe Set and Cemented at 827 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 ACT 1 DFW
(Data must be collected from the Reserve Pit) 7-22-03
Chloride content 10000 ppm Fluid volume 200 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: N/A
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
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 of 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: 7/18/2003
Subscribed and sworn to before me this 18th day of July
03
Notary Public: Alison D Mengel
Date Commission Expires: 10-18-06

KCC Office Use ONLY

NO Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received

**ALISON D. MENGEL
NOTARY PUBLIC
STATE OF COLORADO**
My Commission Expires Oct. 18, 2006

Operator Name: Clute Oil Corporation Lease Name: Dave Welch Well #: 1
 Sec. 32 Twp. 22 S. R. 17 East West County: Pawnee

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|----------------------------------|---------------------------------|------|-----|-------|-----------|------|-----|---------|------|-------|---------------------|------|-------|-------------------------|------|-------|-------|------|-------|
| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: DIL, CNL/FDC, CBL | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1110</td> <td>970</td> </tr> <tr> <td>Heebner</td> <td>3605</td> <td>-1525</td> </tr> <tr> <td>Lansing/Kansas City</td> <td>3712</td> <td>-1632</td> </tr> <tr> <td>Cgl/Mississippian Chert</td> <td>4140</td> <td>-2060</td> </tr> <tr> <td>Viola</td> <td>4222</td> <td>-2142</td> </tr> </table> | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample | Name | Top | Datum | Anhydrite | 1110 | 970 | Heebner | 3605 | -1525 | Lansing/Kansas City | 3712 | -1632 | Cgl/Mississippian Chert | 4140 | -2060 | Viola | 4222 | -2142 |
| <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample | | | | | | | | | | | | | | | | | | | | |
| Name | Top | Datum | | | | | | | | | | | | | | | | | | | | |
| Anhydrite | 1110 | 970 | | | | | | | | | | | | | | | | | | | | |
| Heebner | 3605 | -1525 | | | | | | | | | | | | | | | | | | | | |
| Lansing/Kansas City | 3712 | -1632 | | | | | | | | | | | | | | | | | | | | |
| Cgl/Mississippian Chert | 4140 | -2060 | | | | | | | | | | | | | | | | | | | | |
| Viola | 4222 | -2142 | | | | | | | | | | | | | | | | | | | | |

| 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 | # Sacs Used | Type and Percent Additives |
| Surface casing | 12-1/4" | 8-5/8" | 23# | 827' | 60/40 pos | 390 | 2%gel, 3%CaCl2 |
| Production | 7-7/8" | 5-1/2" | 14# | 4299' | 50/50 pos | 100 | 2%gel, 2%CaCl2 |
| | | | | | | | |

| 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 <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| 2 | 4222-4236 | Acid: 1,000 gal Stimsol-10, Frac'd: 8,000#20/40, 3,000#12/20 | |
| 2 | 4200-4204, 4207-4212 | Acid: 1000 gal 7-1/2%MCA, Frac'd 10,000# 20/40 | |
| 2 | 4156-4160 | Natural | |
| | | | |

| | | | | | | |
|---|-----------------------------|--|--------------------------------|---------------------------------|---|--------------------------------------|
| TUBING RECORD | | Size <u>2-3/8"</u> | Set At <u>4236</u> | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | CONSERVATION DIVISION WICHITA, KS |
| Date of First, Resumerd Production, SWD or Enhr. 04/30/2003 | | Producing Method <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. .5 bbls | Gas Mcf 28 MCFD | Water Bbls. 11 bbls. | Gas-Oil Ratio 56 to 1 | Gravity 36 | |

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Miss. and Viola

Production Interval Other (Specify) _____

BRUCE D BECKER

CONSULTING GEOLOGIST

P O Box 483
MORRISON CO 80465-0483
303 756 6070

212 N MARK
WICHITA KS 67202
316 262 (

January 13, 2003

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 22 2003

CONSERVATION DIVISION
WICHITA, KS

WELL REPORT

Clute Oil Dave Welch #1
Sec. 32-T22S-R17W
Pawnee County, KS

Well Location: N/2NW (660' fnl & 1320' fwl)

Total Depth: 4300' Viola Fm. RTD & LTD

Drillstem Tests: DST #1 4135-4190' Herington & Krider Fm Chase Group
Rec 20' Mud
IF 30" Weak Surface Blow IFP 20-36#
ISI 30" Dead ISIP 620#
FF 30" Dead FFP 37-47#
FSI 30" Dead FSIP 585#

DST #2 3713-3760' "A" & "B" Lansing/Kansas City Fm
Rec 620' MCW
IF 30" BOB 7" IFP 37-219#
ISI 60" Wk Blow Back ISIP 1254#
FF 30" BOB 10" FFP 222-314#
FSI 60" Dead FSIP 1249#

DST #3 4131-4179' Mississippian
Rec 400' GIP, 3.09 bbls GCM and 2.02 bbls MCW
IF 30" BOB 5" IFP 136-516# Tool Plugging
ISI 60" Dead ISIP 1331#
FF 60" BOB 24" FFP 194-261# Tool Plugging for first 15"
FSI 120" Gd Blow Back FSIP 822#

DST #4 4203-4230' Kinderhook Fm (Meyer Zone) & Viola Fm
Rec 860' GIP, 280' SG&OCM (12% gas, 8% oil and 80% mud) and 1' Oil
IF 30" BOB 5" IFP 75-113#
ISI 60" Wk Blow Back ISIP 1076#
FF 60" BOB 8" FFP 119-134#
FSI 120" Gd Blow Back FSIP 1100#

Geological Services: Supervision and Sample Examination 2000' -TD

Surface Casing: 827' - 8-5/8"

| | | | |
|-------------------|--------------|---------------|--------------|
| Tops: | SESWNW | N/2NW | |
| | Sec. 29 | Sec. 32 | |
| | Meyer #1 | Dave Welch #1 | |
| KB | 2070 | 2080 | |
| | | Sample | Log |
| Anhydrite | 1099 (971) | 1115 | 1110 (970) |
| Herington (Chase) | 2111 (-41) | 2134 | 2132 (-52) |
| Base Florence | 2374 (-304) | 2394 | 2388 (-308) |
| Wabaunsee | 2886 (-816) | 2904 | 2901 (-821) |
| Topeka | 3216 (-1146) | 3236 | 3230 (-1150) |
| Heebner | 3591 (-1521) | 3608 | 3605 (-1525) |

JUL 22 2003

CONSERVATION DIVISION
WICHITA, KS

| Tops: (Cont) | Meyer #1 | Dave Welch #1 | |
|-------------------------|--------------|---------------|--------------|
| | | Sample | Log |
| Lansing/Kansas City | 3698 (-1628) | 3714 | 3712 (-1632) |
| Base Kansas City | 3981 (-1911) | 4007 | 4002 (-1922) |
| Conglomerate Shale | 4107 (-2037) | 4132 | 4130 (-2050) |
| Cgl/Mississippian Chert | Absent | 4142 | 4140 (-2060) |
| Kinderhook | 4117 (-2047) | 4163 | 4161 (-2081) |
| Meyer Zone | 4167 (-2097) | 4210 | 4207 (-2127) |
| Viola | 4174 (-2104) | 4224 | 4222 (-2142) |
| TD | 4280 | 4300 | 4300 |

Discussion: The Dave Welch #1 encountered at least 4 potential pay zones below the Conglomerate Shale. From bottom to top these are the Viola Fm., the Meyer Zone (Kinderhook Fm.), the North Garfield Zone and the Cgl./Mississippian Chert.

The Viola Fm. (4022' - 4036') has excellent sample shows and excellent porosity. This zone has not been evaluated in the area, although it is present in some wells. The fact that NO WATER was recovered in DST#4, which covered at least the top 6 feet of this zone is encouraging. This zone should be perforated and tested.

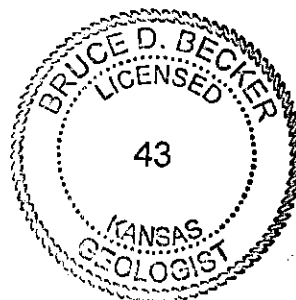
The Meyer Zone (4007' - 4011') has the best gas kick, @ 51Units above background, in the Dave Welch #1. The zone is thinner than in the Meyer #1 but should still be viable as a gas producing horizon. The Chert unit above the Meyer Zone (4200' - 4204') may also be prospective as both zones were covered by DST #4, which recovered NO WATER. These zones should be perforated and tested.

The North Garfield Zone (4155' - 4161') has excellent sample shows, although the presence of dead oil stain is worrying. This zone was responsible for most of the nearly 220,000 BO produced at Garfield North. Results from DST #3 indicate it is likely that the North Garfield Zone is at least partially depleted. This zone should be perforated and tested, in that the Dave Welch #1 is approximately 1/4 of mile from the nearest productive well and the highest well in Section 32 on the Cgl. Shale.

The Cgl./Mississippian Chert (4140' - 4152') has fair to good sample shows. This zone was produced in several of the wells at Garfield North although apparently not in the NW/4 of Section 32. The gas recovered in DST #3 either came from the North Garfield Zone or from the Chert. Based on the results obtained from perforating and testing the North Garfield Zone the Chert should be perforated and tested.

The Dave Welch #1 encountered interesting zones in the Chase Group. While DST #1 (Herington Fm. & Krider Fm.) did not recover gas the formation pressure was high at 585-620#. This kind of pressure usually indicates that the zones, including the Winfield Fm. (2148'), are prospective. The Fort Riley (2308' -2315') had an excellent drilling break, good sample shows and a 12 Unit gas kick. The Chase Group is structurally highest in the Meyer #1 and should be considered as potentially productive in the prospect area.


Bruce D Becker, Geologist KS Lic. #43



ALLIED CEMENTING CO., INC.

6174

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:

Great Bend

| | | | | | | | |
|---------------------------|------------------|---|-------------------|---------------------------|----------------------------|--------------------------|------------------------|
| DATE <u>1-5-03</u> | SEC. <u>32</u> | TWP. <u>22</u> | RANGE <u>17 W</u> | CALLED OUT <u>4:30 am</u> | ON LOCATION <u>6:30 am</u> | JOB START <u>9:00 am</u> | JOB FINISH <u>9:45</u> |
| DAVE LEASE <u>Welsh</u> | WELL# <u># 1</u> | LOCATION <u>Larned - west on 526 to mile marker</u> | | COUNTY <u>Powder</u> | STATE <u>KS</u> | | |
| OLD OR (NEW) (Circle one) | | <u>174 - next section line west 3/4 west - South into</u> | | | | | |

CONTRACTOR Mallard Delg OWNER Clute Oil

TYPE OF JOB Long string Sues

HOLE SIZE 12 1/4 T.D. 827 CEMENT AMOUNT ORDERED 390 sx 60/40 243

CASING SIZE 8 5/8 DEPTH 827

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 5700 lbs MINIMUM 200 lbs COMMON 23 1/2 @ 6.65 1556.10

MEAS. LINE SHOE JOINT POZMIX 156 04 @ 3.55 553.80

CEMENT LEFT IN CSG. 45' GEL 7 1/4 @ 10.00 70.00

PERFS. CHLORIDE 12 1/4 @ 30.00 360.00

DISPLACEMENT 51 BBL's

EQUIPMENT

PUMP TRUCK CEMENTER Jack

120 HELPER J.D.

BULK TRUCK # 344 DRIVER Steve

BULK TRUCK # DRIVER

KANSAS CORPORATION COMMISSION

TOTAL 3180.00

JUL 22 2003

REMARKS:

Run 18 jts of 8 5/8 csg - cement with 390 sx cement - Displace plug with 51 BBL's fresh water - Cement Did circ - ✓

Ranky

SERVICE

CONSERVATION DIVISION

DEPTH OF JOB 827'

PUMP TRUCK CHARGE 520.00

EXTRA FOOTAGE 527 @ 50 263.50

MILEAGE 30 Mi @ 3.00 90.00

PLUG 1-8 5/8 Rubber @ 100.00 100.00

TOTAL 973.50

CHARGE TO: Clute Oil Corp.

STREET 4300 S. Dahlia St.

CITY Englewood STATE Colo. ZIP 80110-6101

FLOAT EQUIPMENT

1-8 5/8 Baffle plate @ A.C.

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 DAY!

SIGNATURE Labor R Urdan

LAVON R. URBAN
PRINTED NAME

TREATMENT REPORT



| | | |
|-----------------------------------|----------------|-----------------|
| Customer ID | Date | |
| Customer <i>Clute Oil Corp</i> | <i>1-13-03</i> | |
| Lease <i>David Welch</i> | Lease No. | Well # <i>1</i> |

| | | | | | |
|---|-------------------------------------|--|----------------------|-------------------------|--------------------|
| Field Order # <i>3536</i> | Station <i>Pratt 165</i> | Casing <i>5 1/2</i> | Depth <i>4299</i> | County <i>Pawnee</i> | State <i>KS</i> |
| Type Job <i>Long String New well</i> | Formation <i>TP = 4310 14ppf</i> | Legal Description <i>22-225-17w</i> | | | |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------------------|----------------------------|------------------|----|--|------------|----------------------|------------------|--|
| Casing Size <i>5 1/2</i> | Tubing Size <i>PBTD</i> | Shots/Ft | | Acid <i>50/10 pot 5th Cabret 1/4 CF.</i> | RATE | PRESS <i>2000</i> | ISIP | |
| Depth <i>4256</i> | Depth | From | To | Pre Pad <i>8 Ad-322 26cc 28 gel</i> | Max | | 5 Min. | |
| Volume <i>104.1</i> | Volume | From | To | Pad <i>1.45th 14.0 ppg</i> | Min | | 10 Min. | |
| Max Press <i>2000</i> | Max Press | From | To | Proc <i>23.8 Bbl: 5L</i> | Avg | | 15 Min. | |
| Well Connection | Annulus Vol. | From | To | <i>20 Bbl: 2% KCL</i> | HHP Used | | Annulus Pressure | |
| Plug Depth | Packer Depth | From | To | Flush <i>12 Bbl: m.f.</i> | Gas Volume | | Total Load | |

| | | |
|--|---------------------------------------|----------------------------|
| Customer Representative <i>Pete Clute</i> | Station Manager <i>Dave Sutter</i> | Treater <i>D. Scott</i> |
| Service Units <i>106 35 57 44 70</i> | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-------------|-----------------|-----------------|--------------|------------|--|
| <i>2000</i> | | | | | <div style="border: 1px solid black; padding: 5px; width: fit-content;"> RECEIVED KANSAS CORPORATION COMMISSION JUL 27 2003 CONSERVATION DIVISION WICHITA, KS </div> <i>on loc w/ Trki Safety mtg 6.S. Bottom ISFV Top 5th. Port 2-4-6-8-10 1sg on Bottom Drop Ball + Circ w/Rig</i> |
| <i>2305</i> | <i>400</i> | | <i>20</i> | <i>6.</i> | <i>5t 2% KCL pre flush</i> |
| <i>2308</i> | <i>400</i> | | <i>12</i> | <i>6</i> | <i>5t mud flush</i> |
| <i>2311</i> | <i>400</i> | | <i>5</i> | <i>6</i> | <i>Had spacer</i> |
| <i>2319</i> | <i>450</i> | | <i>3.2</i> | <i>5</i> | <i>Mix Scavenger Cmt 10 ski @ 12.0 ppg</i> |
| <i>2320</i> | <i>425</i> | | <i>23.8</i> | <i>5</i> | <i>mix Cmt @ 14.0 ppg 100 ski</i> |
| <i>2328</i> | <i>0</i> | | <i>10</i> | <i>5</i> | <i>Close In + Wash Pump + line</i> |
| <i>2330</i> | <i>100</i> | | | <i>6.9</i> | <i>Release Plug + 5t Disp w/H2O</i> |
| <i>2344</i> | <i>350</i> | | <i>85</i> | <i>6.0</i> | <i>lifting Cmt 85 Bbl: Out</i> |
| <i>2348</i> | <i>1000</i> | | <i>104.1</i> | <i>0</i> | <i>Plug Down a psi Test 1sg</i> |
| <i>2350</i> | <i>0</i> | | | <i>0</i> | <i>Release psi Held</i> |
| | | | | | <i>Good Circ During Job</i> |
| | | | | | <i>Plug R.H. w/ 150 ki 60/40 pot</i> |
| | | | | | <i>Job Complete</i> |
| | | | | | <i>Thank you Scotty</i> |