

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

**ORIGINAL**

Operator: License # 6120  
Name: Cabot Oil & Gas Corporation  
Address: 600 17th Street, Suite 900N  
City/State/Zip: Denver, CO 80202  
Purchaser: Duke Energy Field Services  
Operator Contact Person: Jean Arnold - Prod. Tech.  
Phone: (303) 226-9443  
Contractor: Name: Zenith Drilling Corporation PH#: 316-684-9777  
License: 5141  
Wellsite Geologist: None  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 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: N/A  
Well Name: N/A  
Original Comp. Date: N/A Original Total Depth: N/A  
 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>3/1/04</u>                     | <u>3/5/04</u>   | <u>3/17/04</u>                          |
| Spud Date or<br>Recompletion Date | Date Reached TD | Completion Date or<br>Recompletion Date |

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API No. 15 - 175-21919-00-00  
County: Seward  
NW - NW - SE - SE Sec. 13 Twp. 34 S. R. 34  East  West  
1250' FSL feet from S / N (circle one) Line of Section  
1320' FEL feet from E / W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE  SE NW SW  
Lease Name: Lord Well #: 2-13  
Field Name: Hugoton  
Producing Formation: Chase Group  
Elevation: Ground: 2898' Kelly Bushing: 2908'  
Total Depth: 2,905' Plug Back Total Depth: 2856'  
Amount of Surface Pipe Set and Cemented at 730 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set N/A Feet  
If Alternate II completion, cement circulated from N/A  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cm.

Drilling Fluid Management Plan ALT# KJR 5/29/07  
(Data must be collected from the Reserve Pit)  
Chloride content: \_\_\_\_\_ ppm Fluid volume 2000 bbls  
Dewatering method used Evaporation and dry out  
Location of fluid disposal if hauled offsite:  
Operator Name: N/A  
Lease Name: N/A License No.: N/A  
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: Jean Arnold  
Title: Production Tech. Date: 4/16/04  
Subscribed and sworn to before me this 16th day of April,  
20 04.  
Notary Public: Kathryn B. Flager  
Date Commission Expires: \_\_\_\_\_

**KATHRYN B. FLAGER**  
NOTARY PUBLIC  
STATE OF COLORADO  
My Commission Expires 11/12/2007

**KCC Office Use ONLY**  
NO Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: Cabot Oil & Gas Corporation Lease Name: Lord Well #: 2-13  
 Sec. 13 Twp. 34 S. R. 34  East  West County: Seward

**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  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:

**CBL/GR/CCL, Compact Photo Density CNL  
 Array Induction Shallow Focused  
 Micro-Resistivity Log**

| <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
|---|----------------------------------|---------------------------------|
|   | Name                             | Top Datum                       |
|   | Herrington                       | 2615 KB 2908                    |
|   | Upper Krider                     | 2646 KB 2908                    |
|   | Lower Krider                     | 2680 KB 2908                    |
|   | Winfield                         | 2733 KB 2908                    |
|   | Ft. Riley                        | 2796 KB 2908                    |

| 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        | # Sacks Used | Type and Percent Additives |
| Surface   | 12-1/4"           | 8-5/8"                    | 24#, J-55 ST&C    | 730'          | 65.35 Poz Class C     | 595 total    | See attached csg record    |
| Production  | 7-7/8"            | 4-1/2"                    | 10.5#, J-55 ST&C  | 2,905'        | Cls A Lite, 50/50 Poz | 460 total    | See attached csg record    |

| 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<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shoi, Cement Squeeze Record<br>(Amount and Kind of Material Used) | Depth |
|----------------|---|---|-------|
| 2              | Herrington 2,616'-2622'   | Total Job: 335 bbls 15% HCl+150 ball sealers 1.3 SG                               |       |
| 2              | Upper Krider 2,650'-2,658'  | Flushed w/45 bbls 2% KCl water.   |       |
| 2              | Lower Krider 2,682'-2,708'  |   |       |
| 2              | Lower Krider 2,710'-2,722'  |   |       |

| TUBING RECORD   |           | Size     | Set At   | Packer At     | Liner Run   |
|---|-----------|----------|--|---------------|---|
|   |           | 2-3/8"   | 2826'  | None          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumerd Production, SWD or Enhr.<br>4-15-04 |           |          | Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) |               |   |
| Estimated Production Per 24 Hours                           | Oil Bbls. | Gas Mcf  | Water Bbls.  | Gas-Oil Ratio | Gravity   |
|   | 0         | 271 MCFD | 15   | None          | .7330   |

Disposition of Gas  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

*(If vented, Submit ACO-18.)*

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Casing Record Continued

**ORIGINAL**



**Lord #2-13**  
**1250' FSL & 1250' FEL**  
**NW NW SE SE Sec.31-T34S-R34W**  
**Seward County, KS**  
**API# 15-175-21919-00-00**

| Purpose of String | Size Hole Drl'd | Size Csg. Set | Weight Lbs/Ft.  | Setting Depth | Type of Cement    | # Sacks Used     | Type & Percent Additives                            |
|-------------------|-----------------|---------------|-----------------|---------------|-------------------|------------------|---|
| Surface           | 12-1/4"         | 8-5/8"        | 24#, J-55 ST&C  | 730'          | A Serv-Lite       | 185              | 3% CaCl2 + 1/4#/sx Celloflake                       |
| "                 | "               | "             | "               | "             | Common            | 150              | 2% CaCl2 + 1/4# sx Celloflake                       |
| "                 | "               | "             | "               | "             | Common            | 260              | 2% CaCl2 + 1/4# sx Celloflake                       |
|                   |                 |               |                 |               |                   | <b>595 Total</b> |   |
| Production        | 7-7/8"          | 4-1/2"        | 10.5# J-55 ST&C | 2,905'        | A Serv Lite Prem. | 310              | 2% CaCl2 1/4#/sx Celloflake @ 12.2 ppg, 2.18 yield. |
| "                 | "               | "             | "               | "             | 50:50 Poz Common  | 150              | 5% Calset, 5# Gilsonite +3% KCl, .4% fla-322.       |
|                   |                 |               |                 |               |                   | <b>460 Total</b> |   |

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## TREATMENT REPORT



|                          |           |             |
|--------------------------|-----------|-------------|
| Customer ID              | Date      |             |
| Customer CABOT OIL & GAS | 3-2-04    |             |
| Lease LORO               | Lease No. | Well # 2-13 |

|                                 |                   |                              |            |               |          |
|---------------------------------|-------------------|------------------------------|------------|---------------|----------|
| Field Order # 7917              | Station PRATT     | Casing 8 5/8                 | Depth 724' | County SEWARD | State KS |
| Type Job 8 5/8 surface NEW WELL | Formation TD=730' | Legal Description 13-345-34W |            |               |          |

| PIPE DATA          |              | PERFORATING DATA |         | FLUID USED                |            | TREATMENT RESUME |       |                  |
|--------------------|--------------|------------------|---------|---------------------------|------------|------------------|-------|------------------|
| Casing Size 8 5/8  | Tubing Size  | Shots/Ft         | LEAD    | Acid 185 SKS A-SERV-1     | TB         | RATE             | PRESS | ISIP             |
| Depth 8            | Depth        | From             | To      | Pre-Prod 370 CC 1/4" C.F. | Max        |                  |       | 5 Min.           |
| Volume             | Volume       | From             | To      | Prod 12.2 #/GAL 2.18 PT3  | Min        |                  |       | 10 Min.          |
| Max Press 1000     | Max Press    | From             | To TAIL | Prod 150 SKS Common       | Avg        |                  |       | 15 Min.          |
| Well Connection RC | Annulus Vol. | From             | To      | 270 CC 1/4" C.F.          | HHP Used   |                  |       | Annulus Pressure |
| Plug Depth         | Packer Depth | From             | To      | Flush 14.8 #/GAL 1.3743   | Gas Volume |                  |       | Total Load       |

|                                      |                          |                 |
|--------------------------------------|--------------------------|-----------------|
| Customer Representative JOSH WHEELER | Station Manager D. AMICK | Treater T. SEBA |
|--------------------------------------|--------------------------|-----------------|

|               |     |    |    |    |  |  |  |  |
|---------------|-----|----|----|----|--|--|--|--|
| Service Units | 114 | 27 | 47 | 70 |  |  |  |  |
|---------------|-----|----|----|----|--|--|--|--|

| Time  | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log         |
|-------|-----------------|-----------------|--------------|------|---------------------|
|       |                 |                 |              |      | JOB LOG #2          |
|       |                 |                 |              |      | RAN 195' 1" TAG CMT |
|       |                 |                 |              |      | 180' 1" 5/8 Hole    |
| 14:33 |                 | 300             | 3            | 2    | START PUMPING H2O   |
| 14:36 |                 |                 |              | 2    | START MIX; Pump CMT |
|       |                 | 550             | 21           | 1.8  |                     |
|       |                 |                 | 36           |      | CIRC HOLE           |
|       |                 | 800             | 46           |      | CIRC CMT TO SURFACE |
|       |                 | 600             | 56           |      | SHUT DOWN           |
| 15:04 |                 |                 | 1/2          |      | pump 1/2 Bbls H2O   |
|       |                 |                 |              |      | 503 Complete        |
|       |                 |                 |              |      | THANKS              |
|       |                 |                 |              |      | TDOD                |
|       |                 |                 |              |      | 185 SKS LEAD        |
|       |                 |                 |              |      | 150 SKS TAIL        |
|       |                 |                 |              |      | 260 SKS 1"          |
|       |                 |                 |              |      | 595 SKS TOTAL       |

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|             |
|-------------|
| INVOICE NO. |
| Date 3-2-04 |
| Customer ID |

Subject to Correction

FIELD ORDER

7917

|               |             |                  |
|---------------|-------------|------------------|
| Lease LORO    | Well # 2-13 | Legal 13-34S-34W |
| County SEWARD | State KS    | Station PRATT    |

CHARGE

CABOT OIL & GAS

|                                      |                   |                              |
|--------------------------------------|-------------------|------------------------------|
| Depth 24 1/2 FT                      | Formation         | Shoe Joint 4520 PLANT COLLAR |
| Casing 8 5/8                         | Casing Depth 729' | TD 730'                      |
| Job Type 8 5/8 SURFACE               | NEW WELL          |                              |
| Customer Representative JOSH WHEELER | Treater T. SEBA   |                              |

|            |           |
|------------|-----------|
| AFE Number | PO Number |
|------------|-----------|

Materials Received by **X** *Josh Wheeler*

| Product Code | QUANTITY | MATERIAL, EQUIPMENT and SERVICES USED | UNIT PRICE | AMOUNT   | ACCOUNTING |             |
|--------------|----------|---------------------------------------|------------|----------|------------|-------------|
|              |          |                                       |            |          | CORRECTION | AMOUNT      |
| D-200        | 150 SKS  | Common                                |            |          |            |             |
| D-208        | 185 SKS  | A-SERV LITE                           |            |          |            |             |
| C-310        | 765 lbs  | Calcium CHLORIDE                      |            |          |            |             |
| C-194        | 76 lbs   | CELLULOSE                             |            |          |            |             |
| F-145        | 1 EA     | TOP Rubber Plug 8 5/8                 |            |          |            |             |
|              |          | 1"                                    |            |          |            |             |
| D-200        | 200 SKS  | Common                                |            |          |            |             |
| C-310        | 230 lbs  | Calcium CHLORIDE                      |            |          |            |             |
| E-104        | 6.1 TM   | TON ME                                |            |          |            |             |
| E-107        | 260 SKS  | CMT SERV CHARGE                       |            |          |            |             |
| R-402        | 4 hrs    | Add HCS                               |            |          |            |             |
| E-107        | 335 SKS  | CMT SERV. CHARGE                      |            |          |            | RECEIVED    |
| E-101        | 5 ME     | PU ME                                 |            |          |            | APR 26 2004 |
| E-100        | 5 ME     | UNITS 1 way MILES 5                   |            |          |            | KCC WICHITA |
| E-104        | 76 TM    | TONS MILES                            |            |          |            |             |
| R-302        | 1 EA     | EA. 730' PUMP CHARGE                  |            |          |            |             |
| R-701        | 1 EA     | CMT HEAD RENTAL                       |            |          |            |             |
|              |          | DISCOUNTED PRICE :                    |            | 7,023.61 |            |             |
|              |          | TAXES                                 |            |          |            |             |

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • Phone (620) 672-1201 • Fax (620) 672-5383

TOTAL

## TREATMENT REPORT



|                          |      |           |             |
|--------------------------|------|-----------|-------------|
| Customer ID              |      | Date      |             |
| Customer CABOT OIL & GAS |      | 3-2-04    |             |
| Lease                    | LORO | Lease No. | Well # 2-13 |

|                                 |               |              |                    |                            |          |
|---------------------------------|---------------|--------------|--------------------|----------------------------|----------|
| Field Order # 7977              | Station PRATT | Casing 8 5/8 | Depth 729          | County SEWARD              | State KS |
| Type Job 8 5/8 SURFACE NEW WELL |               |              | Formation TD: 730' | Legal Description 334S-34W |          |

| PIPE DATA          |              | PERFORATING DATA |          | FLUID USED                 |            | TREATMENT RESUME |       |                  |
|--------------------|--------------|------------------|----------|----------------------------|------------|------------------|-------|------------------|
| Casing Size 8 5/8  | Tubing Size  | Shots/Ft         | LEAD     | Acid 185 SKS A SERV        | STB        | RATE             | PRESS | ISIP             |
| Depth              | Depth        | From             | To       | Pre Pad 3 1/2 CC 1/4" C.F. | Max        |                  |       | 5 Min.           |
| Volume             | Volume       | From             | To       | Pad 12.2 #/GAL 2.18 FT     | Min        |                  |       | 10 Min.          |
| Max Press 1000     | Max Press    | From             | To TRAIL | Frac 150 SKS Common        | Avg        |                  |       | 15 Min.          |
| Well Connection PL | Annulus Vol. | From             | To       | 2 1/2 CC 1/4" C.F.         | HHP Used   |                  |       | Annulus Pressure |
| Plug Depth         | Packer Depth | From             | To       | Flush 14.8 #/GAL 1.37 FT   | Gas Volume |                  |       | Total Load       |

|                                      |                          |                 |
|--------------------------------------|--------------------------|-----------------|
| Customer Representative JOSH WHEELER | Station Manager D. AULRY | Treater T. SEBA |
|--------------------------------------|--------------------------|-----------------|

|               |     |    |    |    |  |  |  |  |
|---------------|-----|----|----|----|--|--|--|--|
| Service Units | 114 | 27 | 47 | 70 |  |  |  |  |
|---------------|-----|----|----|----|--|--|--|--|

| Time  | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log                           |
|-------|-----------------|-----------------|--------------|------|---------------------------------------|
| 20:00 |                 |                 |              |      | Service Log JOB LOG #1                |
| 1:15  |                 |                 |              |      | called out                            |
|       |                 |                 |              |      | ON LOC WITHK'S SAFETY MTG             |
|       |                 |                 |              |      | Run 16 JT'S 8 5/8 24" CSG. NEW        |
|       |                 |                 |              |      | RAW ON F.E.                           |
| 4:30  |                 |                 |              |      | STACK CSG                             |
| 6:00  |                 |                 |              |      | CSG ON BOTTOM                         |
| 6:05  |                 |                 |              |      | Hook up TO CSG                        |
| 6:10  |                 |                 |              |      | BLEED CIRC W/ CSG                     |
| 6:21  | 200             |                 | 60           | 5    | START Pumping                         |
|       |                 |                 | 71.83        |      | START Pump! max 185 SKS d 12.2 #/GAL  |
|       |                 |                 | 36.60        |      |                                       |
| 6:42  |                 |                 | 108.43       |      | START max 1 pump 150 SKS d 14.8 #/GAL |
| 6:43  | 200             |                 |              | 5    | SHUT DOWN RELEASE SW TOP PLUG         |
| 6:52  | 1000            |                 | 43.60        | 3    | START DESP                            |
|       |                 |                 |              |      | PLUG DOWN LIFT PSI 400 #              |
|       |                 |                 |              |      | Release ! HELD                        |
|       |                 |                 |              |      | Cross over thru JO3                   |
|       |                 |                 |              |      | DIDN'T CIRC OUT TO Surface            |
| 7:20  |                 |                 |              |      | ORDER 400 SKS CMT                     |
|       |                 |                 |              |      | Run '1"                               |
|       |                 |                 |              |      | Run Temp SURVEY TOP CMT 490'          |
|       |                 |                 |              |      | NEXT LOG                              |

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**ORIGINAL**  
**FIELD ORDER** 7502

|   |                       |  |                                     |
|---|-----------------------|--|-------------------------------------|
| INVOICE NO.                             | Subject to Correction |  |                                     |
| Date<br>3-5-04                          | Lease<br>LORD         | Well #<br>Z-13                                 | Legal<br>13-345-34W                 |
| Customer ID                             | County<br>SEWARD      | State<br>KS                                    | Station<br>LIBERAL                  |
| CABOT OIL + GAS                         |                       | Depth  | Formation                           |
|   |                       | Shoe Joint<br>45                               |                                     |
| Casing<br>4 1/2                         | Casing Depth<br>2908  | TD   | Job Type<br>4 1/2 Long string (NEW) |
| Customer Representative<br>JUST Wheeler |                       | Treater<br>Shawn FREDERICK                     |                                     |
| (Zenith #1)                             |                       |  |                                     |
| AFE Number                              | PO Number             | Materials Received by<br>X <i>Just Wheeler</i> |                                     |

| Product Code              | QUANTITY | MATERIAL, EQUIPMENT and SERVICES USED | UNIT PRICE | AMOUNT | ACCOUNTING |         |
|---------------------------|----------|---------------------------------------|------------|--------|------------|---------|
|                           |          |                                       |            |        | CORRECTION | AMOUNT  |
| D104                      | 150 sh   | 50/50 Poz (common) TAIL               | ✓          |        |            |         |
| D206                      | 310 sh   | ASERV Lite (PREMUM) LEAD              | ✓          |        |            |         |
| D203                      | 25 sh    | 60/40 Poz RAT/muse                    | ✓          |        |            |         |
| C321                      | 630 lb   | Gilsonite                             | ✓          |        |            |         |
| C311                      | 630 lb   | CAL SET                               | ✓          |        |            |         |
| C140                      | 236 lb   | KCL                                   | ✓          |        |            |         |
| C195                      | 101 lb   | FLA-322                               | ✓          |        |            |         |
| C310                      | 1062 lb  | CALCIUM CHLORIDE                      | ✓          |        |            |         |
| C194                      | 68 lb    | Cell Phone                            | ✓          |        |            |         |
| F142                      | 1 eq     | TOP RUBBER PLUG                       | ✓          |        |            |         |
| E101                      | 5 mi     | P.V. mileage                          |            |        |            |         |
| R701                      | 1 eq     | CMT HEAD RENTAL                       |            |        |            |         |
| E107                      | 485 sh   | CMT SERVICE Charge                    |            |        |            |         |
| E100                      | 5 mi     | UNITS 1 MILES 1 way                   |            |        |            |         |
| E104                      | 105 Tm   | TONS 21 MILES 5                       |            |        |            |         |
| R306                      | 1 eq     | EA. 4 hrs PUMP CHARGE                 |            |        |            |         |
| Discounted TOTAL PLUS TAX |          |                                       |            |        |            | 6452.57 |

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10244 NE Hiway 61 - P.O. Box 8613 - Pratt, KS 67124-8613 - Phone (620) 672-1201 - Fax (620) 672-5383 **TOTAL**

TREATMENT REPORT



|                             |           |                |
|-----------------------------|-----------|----------------|
| Customer ID                 | Date      |                |
| Customer<br>CABOT oil + GAS | 3-5-04    |                |
| Lease<br>LORD               | Lease No. | Well #<br>2-13 |

|                                    |                    |                                 |               |                  |             |
|------------------------------------|--------------------|---------------------------------|---------------|------------------|-------------|
| Field Order #<br>2502              | Station<br>LIBERAL | Casing<br>4 1/2                 | Depth<br>2908 | County<br>SEWARD | State<br>KS |
| Type Job<br>4 1/2 Long String (NW) | Formation          | Legal Description<br>13-345-34W |               |                  |             |

| PIPE DATA               |              | PERFORATING DATA |    | FLUID USED                  |  | TREATMENT RESUME |       |                  |
|-------------------------|--------------|------------------|----|-----------------------------|--|------------------|-------|------------------|
| Casing Size             | Tubing Size  | Shots/Ft         |    | Acid                        |  | RATE             | PRESS | ISIP             |
| 4 1/2                   |              |                  |    | 310 SH A SERV LITE          |  |                  |       | 5 Min.           |
| Depth<br>2908           | Depth        | From             | To | Pre-Pad<br>150 SH 50/50 POZ |  | Max              |       | 10 Min.          |
| Volume<br>45.5          | Volume       | From             | To | Pad<br>25 SA 60/40 POZ      |  | Min              |       | 15 Min.          |
| Max Press<br>1500       | Max Press    | From             | To | Frac                        |  | Avg              |       | HHP Used         |
| Well Connection<br>P.C. | Annulus Vol. | From             | To |                             |  |                  |       | Annulus Pressure |
| Plug Depth              | Packer Depth | From             | To | Flush<br>WATER (cc-1)       |  | Gas Volume       |       | Total Load       |

|   |                                |                            |
|---|--------------------------------|----------------------------|
| Customer Representative<br>Josh Wheeler | Station Manager<br>Dirk MORRIS | Treater<br>Shawn FRIEDRICH |
|---|--------------------------------|----------------------------|

|               |     |    |    |    |    |    |  |  |  |
|---------------|-----|----|----|----|----|----|--|--|--|
| Service Units | 108 | 28 | 34 | 72 | 47 | 76 |  |  |  |
|---------------|-----|----|----|----|----|----|--|--|--|

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log   |
|------|-----------------|-----------------|--------------|------|---|
| 0730 |                 |                 |              |      | CALLED OUT FOR JOB  |
| 1200 |                 |                 |              |      | ON LOCATION / RIG Pulling D.P.                                      |
| 1205 |                 |                 |              |      | PRE-JOB SAFETY MEETING  |
| 1210 |                 |                 |              |      | RIG up P.T.   |
| 1400 |                 |                 |              |      | D.P. OUT OF HOLE / RIG up CASERS                                    |
| 1420 |                 |                 |              |      | START IN W/ CASING / F.E.   |
| 1640 |                 |                 |              |      | CASING ON BOTTOM / Hook up P.C.                                     |
| 1645 |                 |                 |              |      | BREAK Cir w/ RIG  |
| 1700 |                 |                 |              |      | Through Cir / Hook Lines to P.T.                                    |
| 1705 | 300             |                 | 119          | 4    | Pump 310 SH A SERV LITE w/ 2% cc - 1/4" Cellfloc @ 12.2"            |
| 1735 | 200             |                 | 39           | 4    | Pump 150 SH 50/50 POZ w/ 5% CASSET - 5" Gilsonite 3% KCL .4% RA-322 |
| 1743 |                 |                 |              |      | Shut Down / Drop PLUG   |
| 1748 | Ø               |                 | 45.5         | 5    | Pump Disp   |
| 1755 | 900             |                 | (35 in)      | 5    | CMT TO Pit / 10 BBLS  |
| 1756 | 1000            |                 | (38 in)      | 2    | Slow RATE   |
| 1800 | 1500            |                 |              |      | LAND PLUG   |
| 1801 |                 |                 |              |      | Release Float - HELD  |
| 1805 |                 |                 |              |      | WASH Lines  |
| 1900 |                 |                 |              |      | JOB Complete  |

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