

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 32621
Name: Key Production Co., Inc.
Address: 15 W 5th, Ste 1000
City/State/Zip: Tulsa, OK 74103
Purchaser: Duke Energy
Operator Contact Person: Michelle Farrell
Phone: (918) 585-1100
Contractor: Name: Cheyenne Drilling
License: 5382
Wellsite Geologist: None

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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: _____
Well Name: _____
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. _____

| | | |
|-----------------------------------|-----------------|---|
| 9/22/03 | 9/26/03 | 10/23/03 |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

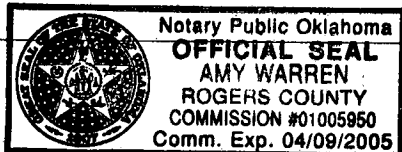
API No. 15 - 071.20766.00.00
County: Greeley
C SE NE Sec. 34 Twp. 17 S. R. 40 East West
1980 feet from S / (circle one) Line of Section
660 feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Burgardt Well #: 2
Field Name: Greeley
Producing Formation: Towanda, U Ft Riley
Elevation: Ground: 3572' Kelly Bushing: 3577'
Total Depth: 3136' Plug Back Total Depth: 3086'
Amount of Surface Pipe Set and Cemented at 1743' 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 ALT #2 RQR 6/12/07
(Data must be collected from the Reserve Pit)
Chloride content est 2000 ppm Fluid volume est 1000 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
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: Michelle Farrell
Title: Drilling Tech Date: 1/17/04
Subscribed and sworn to before me this 20th day of January
04
Notary Public: Amy Warren
Date Commission Expires: _____



KCC Office Use ONLY
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: Key Production Co., Inc. Lease Name: Burgardt Well #: 2
 Sec. 34 Twp. 17 S. R. 40 East West County: Greeley

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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: Gamma Ray Neutron Log | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum <div style="text-align: center; font-weight: bold; font-size: 1.2em;"> RECEIVED JAN 22 2004 KCC WICHITA </div> |
|--|---|

| 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" | 23# | 1743' | Common | 550 | |
| Production | 7 5/8" | 5 1/2" | 14# | 3136' | Class 3 | 235 285 | 2% caC12 |
| | | | | | | | |

| 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 (Amount and Kind of Material Used) | Depth |
|----------------|---|---|-------|
| 4 | 2875'-2902'; 2912'-2922' | 14707 gals, WF-125, 15309 lbs 16/30 sand | |
| | | | |
| | | | |
| | | | |

| | | | | |
|---|-----------------------|--|--------------------------|---|
| TUBING RECORD | Size 2 3/8" | Set At 2901' | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumerd Production, SWD or Enhr. 10/23/03 | | 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. 0 | Gas Mcf 308 | Water Bbls. 15 | Gas-Oil Ratio Gravity |

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18.) Other (Specify)

ORIGINAL

DRILLER'S LOG

CIMAREX ENERGY COMPANY
BURGARDT #2
SECTION 34-T17S-R40W
GREELEY COUNTY, KANSAS

COMMENCED: 09-22-03
COMPLETED: 09-26-03

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SURFACE CASING: 1743' OF 8 5/8" CMTD
W/750 SKS LITE + 3% CC + 1/4#/SK
FLOCELE. TAILED W/150 SKS COMM + 3%
CC.

FORMATION

DEPTH

| FORMATION | DEPTH |
|----------------------------|-----------------|
| SURFACE HOLE | 0- 1747 |
| RED BED | 1747 - 1830 |
| RED BED, LIMESTONE & SHALE | 1830 - 2580 |
| LIMESTONE & SHALE | 2580 - 3136 RTD |

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

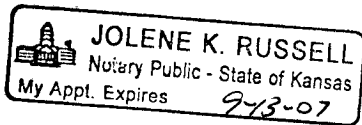
CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS: ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 30TH DAY OF SEPTEMBER, 2003.

JOLENE K. RUSSELL

NOTARY PUBLIC

ALLIED CEMENTING CO., INC. 14855

ORIGINAL

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

SERVICE POINT

OAKLEY

| | | | | | | | |
|----------------------|-------------------|--|------------------|------------|----------------------------|---------------------------|---------------------------|
| DATE <u>9-24-03</u> | SEC. # <u>374</u> | TWP. <u>17S</u> | RANGE <u>90W</u> | CALLED OUT | ON LOCATION <u>8:30 AM</u> | JOB START <u>12:00 PM</u> | JOB FINISH <u>1:00 PM</u> |
| LEASE <u>BURGART</u> | WELL # <u>374</u> | LOCATION <u>700 buns 411 7E-5 1140</u> | | | COUNTY <u>GREELEY</u> | STATE <u>KS</u> | |

OLD OR (NEW) (Circle one)

CONTRACTOR Cheyenne Well Serv OWNER SA-118

TYPE OF JOB SURFACE

| | |
|-----------------------------------|------------------------|
| HOLE SIZE <u>12 1/4"</u> | T.D. <u>1247'</u> |
| CASING SIZE <u>8 7/8"</u> | DEPTH <u>1247'</u> |
| TUBING SIZE | DEPTH |
| DRILL PIPE | DEPTH |
| TOOL | DEPTH |
| PRES. MAX | MINIMUM |
| MEAS. LINE | SHOE JOINT <u>115'</u> |
| CEMENT LEFT IN CSG. <u>150.66</u> | |
| PERFS. | |
| DISPLACEMENT <u>108 1/2 BAR</u> | |

CEMENT AMOUNT ORDERED 150 SKS COM 38CC

| | | |
|-----------------------------------|----------------|----------------|
| COMMON <u>150 SKS</u> | @ <u>785</u> | <u>1177.50</u> |
| POZ MIX | @ | |
| GEL | @ | |
| CHLORIDE <u>2.9 SKS</u> | @ <u>30.00</u> | <u>87.00</u> |
| <u>2.2 SKS 750 SKS</u> | @ <u>695</u> | <u>522.50</u> |
| <u>1.6 SKS 188"</u> | @ <u>140</u> | <u>223.20</u> |
| HANDLING <u>400 SKS</u> | @ <u>110</u> | <u>440.00</u> |
| MILEAGE <u>0.25 PER SK / MILE</u> | | <u>270.00</u> |

EQUIPMENT

| | | |
|-------------------------|-----------------------|----------------------|
| PUMP TRUCK # <u>300</u> | CEMENTER <u>15881</u> | HELPER <u>111419</u> |
| BULK TRUCK # <u>309</u> | DRIVER <u>LAPPY</u> | |
| BULK TRUCK # <u>347</u> | DRIVER <u>11174</u> | |
| <u>218</u> | JARRO | |

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TOTAL 11,213.20

JAN 22 2004

SERVICE

KCC WICHITA

| | |
|---------------------------|----------------------------|
| DEPTH OF JOB <u>1747'</u> | |
| PUMP TRUCK CHARGE | <u>1130.00</u> |
| EXTRA FOOTAGE | @ |
| MILEAGE <u>75 MILE</u> | @ <u>300</u> <u>225.00</u> |
| PLUG <u>8 7/8 Rubber</u> | @ <u>100.00</u> |

TOTAL 1455.00

REMARKS:

MEY 150 SKS 1118 2200 3 750 1118
150 SKS 1118 7800 4 1118 1118 1118
1118
CEMENT DIRT TAC
PLUG LANCED
FLOAT HELD

THANK YOU

CHARGE TO: Cheyenne Well Serv

STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

| | | |
|-------------------------|--------------|---------------|
| <u>1-1 P GUIDE SHOE</u> | @ <u>265</u> | <u>265.00</u> |
| <u>1-1 AFU INSERT</u> | @ <u>325</u> | <u>325.00</u> |
| <u>5 CENTRALIZER</u> | @ <u>55</u> | <u>275.00</u> |

TOTAL 755.00

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

[Signature]

PRINTED NAME

Schlumberger

Cementing Service Report

ORIGINAL

| | | | | | | | | | | |
|--|--|---|--------------------------|--|---------------------------------------|--------------------------|--------------------------------|-------------------|--------------------|------------------------------|
| Customer CIMAREX ENERGY CO. | | | | | | Job Number 2205543696 | | | | |
| Burgardt #2 #2 | | | Location (regal) | | Schlumberger Location Perryton, TX | | Job Start 2003-Sep-26 | | | |
| Field | | Formation Name/Type | | Deviation | Bit Size 7.88 in | Well MD 3,136 ft | Well TVD 3,138 ft | | | |
| County | | State/Province | | BNP psi | BNCT °F | BNCT °F | Pore Press. Gradient psi/ft | | | |
| Well Master: 0063000008 | | API / UWI: | | Casing/Liner | | | | | | |
| Rig Name CHEYENNE 8 | | Drilled For | Service Via | | Depth, ft 3136 | Size, in 5.5 | Weight, lb/ft 14 | Grade J55 | Thread STC | |
| Offshore Zone | | Well Class | Well Type | | Tubing/Drill Pipe | | | | | |
| Drilling Fluid Type | | Max. Density lb/gal | Plastic Viscosity cp | | Depth | Size, in | Weight, lb/ft | Grade | Thread | |
| Service Line Cementing | | Job Type Cem Prod Casing | | Perforations/Open Hole | | | | | | |
| Max. Allowed Tubing Pressure psi | | Max. Allowed Ann. Pressure psi | | Wellhead Connection 5 1/2" HS&M | | Top, ft | Bottom, ft | spr | No. of Shots | Total Interval ft |
| Service Instructions Cement 5 1/2" Production Casing using LEAD: 85 SKS of Panhandle Lite + Additives. TAIL: 200 SKS of C + Additives | | | | | | Treat Down Casing | Displacement 75.1 bbl | Packer Type | Packer Depth ft | |
| Casing/Tubing Secured <input checked="" type="checkbox"/> | | 1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/> | | Tubing Vol. bbl | Casing Vol. 78 bbl | Annular Vol. 97 bbl | Open Hole Vol. 173 bbl | | | |
| LIR Pressure: 243 psi | | Pipe Rotated <input type="checkbox"/> | | Pipe Reciprocated <input type="checkbox"/> | | Casing Tools | | Squeeze Job | | |
| No. Cementizers: 10 | | Top Plugs: 1 | Bottom Plugs: | | Shoe Type: Guide | Shoe Depth: ft | | Squeeze Type | | |
| Cement Head Type: Single | | Job Scheduled For: 9/25/2003 | | Arrived on Location: 2003-Sep-25 22:00 | Leave Location: 2003-Sep-26 7:30 | | Stage Tool Type: | Tool Depth: ft | | |
| Date | | Time 24 hr clock | Treating Pressure psi | Flow Rate bbl/min | Volume bbl | CMT DENG lb/gal | 0 | 0 | 0 | Message |
| 2003-Sep-26 | | 5:40 | 0 | 0.0 | 0.0 | 8.36 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:40 | | | | | | | | Start Job |
| 2003-Sep-26 | | 5:40 | 0 | 0.0 | 0.0 | 8.36 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:40 | | | | | | | | Pressure Test Lines |
| 2003-Sep-26 | | 5:41 | | | | | | | | Reset Total, Vol = 0.28 bbl |
| 2003-Sep-26 | | 5:42 | 3236 | 0.0 | 0.0 | 8.37 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:42 | 3166 | 0.0 | 0.0 | 8.37 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:43 | 3145 | 0.0 | 0.0 | 8.37 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:43 | 151 | 0.0 | 0.0 | 8.37 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:44 | -27 | 0.0 | 0.0 | 8.37 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:44 | -27 | 0.0 | 0.0 | 8.37 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:45 | 82 | 2.8 | 0.2 | 8.36 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:45 | 124 | 5.2 | 2.4 | 8.36 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:46 | 124 | 5.2 | 5.0 | 8.34 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:46 | 128 | 5.1 | 7.6 | 8.35 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:47 | 133 | 5.1 | 10.2 | 7.86 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:47 | | | | | | | | End Spacer |
| 2003-Sep-26 | | 5:47 | 133 | 5.2 | 10.7 | 8.58 | 0 | 0 | 0 | Start Mixing Lead Slurry |
| 2003-Sep-26 | | 5:47 | 146 | 5.1 | 11.4 | 10.51 | 0 | 0 | 0 | |
| 2003-Sep-26 | | 5:47 | | | | | | | | Reset Total, Vol = 11.41 bbl |
| 2003-Sep-26 | | 5:47 | 133 | 5.1 | 1.4 | 10.08 | 0 | 0 | 0 | |

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Comments:

Fluid Systems:

| LEAD | | | |
|-----------------------------------|--------------------------|------------------|----------|
| 85 SKS Panhandle Lite + Additives | | | |
| Density: | 11.4 lb/gal | Thickening Time: | |
| Yield: | 3.07 ft ³ /sk | | |
| H2O Mix: | 18.23 gal/sk | | |
| H2O: | 1549.55 gal | Eq. Sack Weight: | 94 lb |
| | | Total Blend: | 85 sacks |
| Dowell Code | Conc/ Amount | Total Quantity | |
| D046 | 0.188 lbs/sk | 15.98 | |
| D079 | 1.88 lbs/sk | 159.8 | |
| D053 | 1.88 lbs/sk | 159.8 | |
| D044 | 6 lbs/sk | 510 | |
| D029 | 0.25 lbs/sk | 21.25 | |
| S001 | 2.82 lbs/sk | 239.7 | |
| D030 | 0.94 lbs/sk | 79.9 | |
| CLASS C | 94 lbs/sk | 7990 | |

| TAIL | | | |
|-----------------------------|--------------------------|------------------|-----------|
| 150 SKS Class C + Additives | | | |
| Density: | 14.8 lb/gal | Thickening Time: | |
| Yield: | 1.34 ft ³ /sk | | |
| H2O Mix: | 6.3 gal/sk | | |
| H2O: | 945 gal | Eq. Sack Weight: | 94 lb |
| | | Total Blend: | 150 sacks |
| Dowell Code | Conc/ Amount | Total Quantity | |
| D029 | 0.25 lbs/sk | 50 | |
| S001 | 1.88 lbs/sk | 376 | |
| CLASS C | 94 lbs/sk | 18800 | |

D908 - 8035 + 18830
 D53 - 160
 D30 - 80
 S1 - 239 + 376
 D29 - 21 + 50
 D44 - 515
 D79 - 159
 D46 - 16

Front - 85
 Back - 200

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