

**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 # 5293
Name: Helmerich & Payne, Inc.
Address: 1579 E. 21st Street
City/State/Zip: Tulsa, OK 74114
Purchaser: _____
Operator Contact Person: Sharon LaValley
Phone: (918) 742-5531
Contractor: Name: Cheyenne Drilling
License: 5382
Wellsite Geologist: _____

API No. 15 - 093-21693-0000
County: Kearny
SE SW SE Sec. 14 Twp. 26 S. R. 35 East West
330 feet from S / N (circle one) Line of Section
1440 feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: USA Well #: B-4
Field Name: Pleasant Prairie
Producing Formation: St. Louis
Elevation: Ground: 2998' Kelly Bushing: 3009'
Total Depth: 6200' Plug Back Total Depth: 5271'
Amount of Surface Pipe Set and Cemented at 1868 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 3060 Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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. _____

| | | |
|-----------------------------------|-----------------|---|
| <u>01/03/02</u> | <u>01/16/02</u> | <u>02/16/02</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

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ALL 1 24 6-19-02

Drilling Fluid Management Plan
(Data must be collected from the reserve pit)
Chloride content 6000 ppm Fluid volume ext 2000 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: K&L Tank Truck Service
Lease Name: Morris B1 SWD License No.: 8757
Quarter Sec. 19 Twp. 24 S. R. 31 East West
County: Finney Docket No.: D16812

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 completed and correct to the best of my knowledge.

Signature: Sharon LaValley
Title: Engineer Tech Date: 3/5/02
Subscribed and sworn to before me this 5th day of March
2002.
Notary Public: Amy Warren

KCC Office Use Only

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

Date Commission Expires: _____
Notary Public Oklahoma
OFFICIAL SEAL
AMY WARREN
ROGERS COUNTY
Comm. Exp. 04/08/05

4/9/05

I O G

X

Operator Name: Helmerich & Payne, Inc. Lease Name: USA Well #: B-4

Sec. 14 Twp. 26 S. R. 35 East West County: Kearny

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:

| <input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum | | <input type="checkbox"/> Sample |
|--|-------|---------------------------------|
| Name | Top | Datum |
| Base Stone Corral | 1876' | |
| Winfield | 2566' | |
| Heebner | 3833' | |
| Lansing | 3883' | |
| Kansas City | 4280' | |
| Atoka | 4816' | |
| Morrow | 4890' | |
| St. Gen | 4998' | |
| St. Louis | 5068' | |

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 1/4" | 8 5/8" | 24# | 1868 | 35/65 LP3 Class G | 640 | 6% D20 Bent + 2% Sq CaCl + 1#/sx D25 Flocele |
| | | | | | Class C | 150 | 2% S1CaCl + 1#/sx Flocele |
| Production | 5 1/2" | 7 7/8" | 14# | 5342 | 50/50 Poz Prem | 400 | 5% CaCl 60 + .5% Halad-322 + 10% Sit + 5 ppg gilsonite |
| | | | | | MidCon2 Prem Plus | 210 | 2% CaCl2 + 1/8 ppg Poly-E-Flake |

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 | | | | |

| Shot Per Foot | PERFORATIONS 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 | St. Louis "B" 5070-5074 | 3000 gals 17% Stimulation Acid + 4000 gals 30# water Frac G. Flush w/1500 gals 2% KCL wtr + 1 gal Lo-Surf 300 | |
| 4 | St. Louis "C" 5129-5133 | 3000 gals 17% Stimulation Acid + 4000 gals 30# water Frac G. Flush w/1500 gals 2% KCL wtr + 1 gal Lo-Surf 300 | |
| TUBING RECORD Size <u>2 7/8"</u> Set At <u>5166</u> Packer At | | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Date of First, Resumed Production, SWD or Enhr. <u>2/17/02</u> | | 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 <u>17</u> | Gas Mcf | Water Bbls <u>14</u> Gas-Oil Ratio Gravity |

Disposition of Gas Vented Sold Used on Lease (If Vented, Submit ACO-18) METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 5070-5133 Other (Specify) _____



Cementing Service Report

ORIGINAL

| Cheyenne Drilling | | | | | | | | | | Job Number | | |
|---|-------|-----------------------------------|-----------------------------------|-------------------|--|--------------------------------|--------------------|--------------------------------|--------------------------|---------------|------------------------------|--|
| CHEYENNE DRILLING | | | | | | | | | | 200435216 | | |
| Well Helmerich & Payne U S A #B-4 | | | Location (Legal) | | | Newell Location Ulysses, KS | | | Job Start 2002-Jan-05 | | | |
| Field | | Formation Name/Type | | | Deviation | | BH Size in | Well MD 1,872 ft | Well TVD 1,872 ft | | | |
| County Keamey | | State/Province KS | | | BHP psi | BHST °F | BHCT °F | Pore Press. Gradient psi/ft | | | | |
| Rig Name Cheyenne Rig 5 | | Drilled For Oil & Gas | Service Via Land | | | On-Sight Line | | | | | | |
| Offshore Zone | | Well Class New | Well Type Exploration | | | Depth, ft 1871 | Size, in 8.63 | Weight, lb/ft 24 | Grade K55 | Thread BRD | | |
| Drilling Fluid Type Other | | Max. Density 9 lb/gal | Plastic Viscosity 32 cp | | | Tubing/Drill Pipe | | | | | | |
| Service Lines Cementing | | Job Type Cem Surface Casing | | | Depth | Size, in | Weight, lb/ft | Grade | Thread | | | |
| Max. Allowed Tubing Pressure psi | | Max. Allowed Ann. Pressure psi | Wellhead Connection 8 5/8 HEAD | | | Perforations/Open Hole | | | | | | |
| Service Instructions Safety Cement Surface Casing per customers request. | | | | | Top, ft | Bottom, ft | spr | No. of Shots | Total Interval ft | | | |
| | | | | | | | | | Diameter in | | | |
| Treat Down Casing | | Displacement bbl | Packer Type | | | Packer Depth ft | | | | | | |
| Tubing Vol. bbl | | Casing Vol. bbl | Annular Vol. bbl | | | Open Hole Vol. bbl | | | | | | |
| Casing/Tubing Secured <input checked="" type="checkbox"/> | | | | | 1 Hole Volume Circulated prior to Cementing <input type="checkbox"/> | | | Casing Tools | | Squeeze Job | | |
| Lift Pressure: 650 psi | | | | | Shoe Type: Auto-Fill | | | Squeeze Type | | | | |
| Pipe Rotated <input type="checkbox"/> | | | | | Pipe Recirculated <input type="checkbox"/> | | | Shoe Depth: 1827 ft | | Tool Type: | | |
| No. Cementizers: 5 | | Top Plugs: 1 | Bottom Plugs: | | | Stage Tool Type: | | Tool Depth: ft | | | | |
| Cement Head Type: Single | | | | | Stage Tool Depth: ft | | Tall Pipe Size: in | | | | | |
| Job Scheduled For: | | Arrived on Location: | | Leave Location: | | | Collar Type: | | Tall Pipe Depth: ft | | | |
| 2002-Jan-05 | | 3:10 | | 2002-Jan-05 | | | 15:30 | | Collar Depth: ft | | Seq Total Vol: bbl | |
| Date | Time | Pressure psi | Flow Rate bbl/min | Density lb/gal | Volume bbl | Temp °F | Temp °F | Temp °F | Temp °F | Temp °F | Message | |
| 2002-Jan-05 | 12:50 | -10 | 0.0 | 8.33 | 0.0 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:51 | -10 | 0.0 | 8.41 | 0.0 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:51 | -10 | 0.0 | 8.44 | 0.0 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:52 | -5 | 0.1 | 8.41 | 0.0 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:52 | 1002 | 0.0 | 8.35 | 0.2 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:53 | 1597 | 0.0 | 8.35 | 0.2 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:53 | 1555 | 0.0 | 8.34 | 0.2 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:54 | -1 | 0.0 | 8.34 | 0.2 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:54 | -15 | 0.0 | 8.33 | 0.2 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:55 | -15 | 0.0 | 8.33 | 0.2 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:55 | -15 | 0.0 | 8.33 | 0.2 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:56 | -15 | 0.0 | 8.33 | 0.2 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:56 | 59 | 4.0 | 8.34 | 1.6 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:57 | 68 | 4.0 | 8.33 | 3.6 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:57 | 49 | 4.0 | 8.33 | 5.6 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:58 | 53 | 4.0 | 8.32 | 7.6 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:58 | 40 | 4.0 | 8.32 | 9.5 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:59 | -19 | 0.0 | 8.33 | 10.7 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 12:59 | -10 | 0.0 | 8.35 | 10.7 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 13:00 | -5 | 0.0 | 8.36 | 10.7 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 13:00 | -10 | 0.0 | 8.38 | 10.7 | 0 | 0 | 0 | 0 | 0 | | |
| 2002-Jan-05 | 13:00 | | | | | | | | | | Reset Total, Vol = 10.73 bbl | |

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| Well | | | Service Date | | | Customer | | | Job Number |
|-------------------------------|-------|-----------|--------------|--------|------|-------------------|-----|-----|-----------------------------|
| Heimerich & Payne #U S A #B-4 | | | 025-Jan-05 | | | CHEYENNE DRILLING | | | 220243276 |
| Date | Time | Flow Rate | Pressure | Volume | ... | ... | ... | ... | Message |
| 2002-Jan-05 | 13:00 | | | | | | | | Start Pumping Spacer |
| 2002-Jan-05 | 13:00 | -5 | 0.0 | 8.44 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:01 | -5 | 0.0 | 9.20 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:01 | -5 | 0.0 | 11.56 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:02 | | | | | | | | End Spacer |
| 2002-Jan-05 | 13:02 | -5 | 0.0 | 12.30 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:02 | -10 | 0.0 | 12.30 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:03 | -5 | 0.0 | 12.30 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:03 | -5 | 0.0 | 12.30 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:04 | -5 | 0.0 | 12.29 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:04 | -5 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:05 | -10 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:05 | -5 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:06 | -5 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:06 | 45 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:06 | | | | | | | | Reset Total, Vol = 0.00 bbl |
| 2002-Jan-05 | 13:06 | 45 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:06 | | | | | | | | Reset Total, Vol = 0.00 bbl |
| 2002-Jan-05 | 13:06 | 49 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:07 | 49 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:07 | | | | | | | | Start Mixing Lead Slurry |
| 2002-Jan-05 | 13:07 | 49 | 0.0 | 12.28 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:07 | 54 | 0.0 | 13.69 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:08 | 49 | 0.0 | 12.73 | 10.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:08 | 54 | 3.2 | 12.55 | 11.1 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:09 | 123 | 4.6 | 12.46 | 13.3 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:09 | 159 | 5.8 | 12.33 | 15.9 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:10 | 141 | 5.4 | 12.30 | 18.6 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:10 | 146 | 5.4 | 12.55 | 21.4 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:11 | 141 | 5.4 | 12.65 | 24.1 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:11 | 132 | 5.4 | 12.90 | 26.8 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:12 | 155 | 5.4 | 12.79 | 29.4 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:12 | 136 | 5.4 | 12.50 | 32.1 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:13 | 155 | 5.4 | 12.41 | 34.8 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:13 | 146 | 5.4 | 12.49 | 37.5 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:14 | 136 | 5.4 | 12.59 | 40.2 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:14 | 91 | 4.9 | 12.75 | 42.8 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:15 | 104 | 4.9 | 12.87 | 45.2 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:15 | 114 | 4.9 | 12.79 | 47.6 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:16 | 91 | 4.9 | 12.46 | 50.1 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:16 | 86 | 4.9 | 12.16 | 52.5 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:17 | 100 | 4.9 | 12.29 | 55.0 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:17 | 146 | 5.3 | 12.62 | 57.6 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:18 | 150 | 5.3 | 12.51 | 60.3 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:18 | 155 | 5.4 | 12.65 | 63.0 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:19 | 114 | 5.4 | 12.71 | 65.7 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:19 | 114 | 5.4 | 12.56 | 68.4 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:20 | 146 | 5.4 | 12.50 | 71.1 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:20 | 150 | 5.4 | 12.31 | 73.8 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:21 | 173 | 5.9 | 12.54 | 76.0 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:21 | 86 | 4.7 | 12.55 | 78.5 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:22 | 95 | 5.0 | 12.34 | 81.0 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:22 | 95 | 5.0 | 12.41 | 83.5 | 0 | 0 | 0 | |
| 2002-Jan-05 | 13:23 | 155 | 5.8 | 12.54 | 86.1 | 0 | 0 | 0 | |

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| Well | | Service Date | | Customer | | Job Number | |
|------------------------------|-------|-----------------|-----------|-------------------|--------|------------|---|
| Helmerich & Payne #U SA #B-4 | | 023-Jan-05 | | CHEYENNE DRILLING | | 20045276 | |
| Date | Time | Weight Pressure | Flow Rate | Depth | Volume | W | W |
| 2002-Jan-05 | 13:23 | 146 | 5.6 | 12.04 | 88.9 | 0 | 0 |
| 2002-Jan-05 | 13:24 | 155 | 5.6 | 13.08 | 91.7 | 0 | 0 |
| 2002-Jan-05 | 13:24 | 150 | 5.6 | 12.86 | 94.5 | 0 | 0 |
| 2002-Jan-05 | 13:25 | 159 | 5.8 | 11.82 | 97.3 | 0 | 0 |
| 2002-Jan-05 | 13:25 | 77 | 5.0 | 11.67 | 99.9 | 0 | 0 |
| 2002-Jan-05 | 13:28 | 114 | 5.0 | 11.92 | 102.4 | 0 | 0 |
| 2002-Jan-05 | 13:26 | 109 | 5.0 | 12.13 | 104.9 | 0 | 0 |
| 2002-Jan-05 | 13:27 | 123 | 5.0 | 12.33 | 107.4 | 0 | 0 |
| 2002-Jan-05 | 13:27 | 95 | 5.0 | 12.32 | 109.9 | 0 | 0 |
| 2002-Jan-05 | 13:28 | 148 | 5.4 | 12.43 | 112.4 | 0 | 0 |
| 2002-Jan-05 | 13:28 | 148 | 5.4 | 12.53 | 115.1 | 0 | 0 |
| 2002-Jan-05 | 13:29 | 123 | 5.4 | 12.60 | 117.8 | 0 | 0 |
| 2002-Jan-05 | 13:29 | 141 | 5.4 | 12.66 | 120.5 | 0 | 0 |
| 2002-Jan-05 | 13:30 | 95 | 5.4 | 12.27 | 123.2 | 0 | 0 |
| 2002-Jan-05 | 13:30 | 72 | 5.0 | 12.43 | 125.8 | 0 | 0 |
| 2002-Jan-05 | 13:31 | 127 | 5.0 | 12.52 | 128.2 | 0 | 0 |
| 2002-Jan-05 | 13:31 | 109 | 5.4 | 12.65 | 130.9 | 0 | 0 |
| 2002-Jan-05 | 13:32 | 136 | 5.4 | 12.62 | 133.6 | 0 | 0 |
| 2002-Jan-05 | 13:32 | 114 | 5.4 | 12.40 | 136.3 | 0 | 0 |
| 2002-Jan-05 | 13:33 | 146 | 5.4 | 12.52 | 139.0 | 0 | 0 |
| 2002-Jan-05 | 13:33 | 150 | 5.4 | 12.44 | 141.8 | 0 | 0 |
| 2002-Jan-05 | 13:34 | 155 | 5.4 | 12.32 | 144.5 | 0 | 0 |
| 2002-Jan-05 | 13:34 | 132 | 5.4 | 12.33 | 147.2 | 0 | 0 |
| 2002-Jan-05 | 13:35 | 49 | 3.5 | 12.03 | 149.9 | 0 | 0 |
| 2002-Jan-05 | 13:35 | 114 | 5.6 | 12.17 | 151.1 | 0 | 0 |
| 2002-Jan-05 | 13:38 | 109 | 5.0 | 12.12 | 153.7 | 0 | 0 |
| 2002-Jan-05 | 13:36 | 127 | 5.0 | 12.23 | 156.2 | 0 | 0 |
| 2002-Jan-05 | 13:37 | 114 | 5.1 | 12.37 | 158.8 | 0 | 0 |
| 2002-Jan-05 | 13:37 | 141 | 5.6 | 12.35 | 161.5 | 0 | 0 |
| 2002-Jan-05 | 13:38 | 169 | 5.6 | 12.51 | 164.3 | 0 | 0 |
| 2002-Jan-05 | 13:38 | 159 | 5.5 | 12.69 | 167.1 | 0 | 0 |
| 2002-Jan-05 | 13:39 | 132 | 5.2 | 12.66 | 169.8 | 0 | 0 |
| 2002-Jan-05 | 13:39 | 150 | 5.2 | 12.77 | 172.4 | 0 | 0 |
| 2002-Jan-05 | 13:40 | 164 | 5.2 | 12.71 | 175.0 | 0 | 0 |
| 2002-Jan-05 | 13:40 | 150 | 5.2 | 12.57 | 177.6 | 0 | 0 |
| 2002-Jan-05 | 13:41 | 146 | 5.2 | 12.38 | 180.2 | 0 | 0 |
| 2002-Jan-05 | 13:41 | 135 | 5.2 | 12.33 | 182.9 | 0 | 0 |
| 2002-Jan-05 | 13:42 | 68 | 5.2 | 12.37 | 185.5 | 0 | 0 |
| 2002-Jan-05 | 13:42 | 159 | 5.4 | 12.37 | 188.2 | 0 | 0 |
| 2002-Jan-05 | 13:43 | 132 | 5.3 | 12.43 | 190.8 | 0 | 0 |
| 2002-Jan-05 | 13:43 | 146 | 5.3 | 12.52 | 193.5 | 0 | 0 |
| 2002-Jan-05 | 13:44 | 164 | 5.3 | 12.63 | 196.2 | 0 | 0 |
| 2002-Jan-05 | 13:44 | 136 | 5.3 | 12.50 | 198.8 | 0 | 0 |
| 2002-Jan-05 | 13:45 | 150 | 5.3 | 12.21 | 201.6 | 0 | 0 |
| 2002-Jan-05 | 13:45 | 118 | 5.3 | 12.11 | 204.3 | 0 | 0 |
| 2002-Jan-05 | 13:46 | 155 | 5.3 | 12.30 | 206.9 | 0 | 0 |
| 2002-Jan-05 | 13:46 | 141 | 5.3 | 12.40 | 209.6 | 0 | 0 |
| 2002-Jan-05 | 13:47 | 146 | 5.0 | 12.50 | 212.2 | 0 | 0 |
| 2002-Jan-05 | 13:47 | 168 | 5.0 | 12.41 | 214.7 | 0 | 0 |
| 2002-Jan-05 | 13:48 | 95 | 4.9 | 12.47 | 217.2 | 0 | 0 |
| 2002-Jan-05 | 13:48 | 159 | 4.9 | 12.53 | 219.7 | 0 | 0 |
| 2002-Jan-05 | 13:49 | 132 | 4.9 | 12.63 | 222.1 | 0 | 0 |
| 2002-Jan-05 | 13:49 | | | | | | |
| 2002-Jan-05 | 13:49 | 104 | 4.1 | 12.60 | 222.7 | 0 | 0 |

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End Lead Slurry

| Well | | Service Date | | Customer | | Job Number | | |
|-------------------------------|-------|--------------|-----------|-------------------|--------|------------|--------|-------------------------------|
| Halmerich & Payne #U S A #B-4 | | 025-Jan-05 | | CHEYENNE DRILLING | | 2705436278 | | |
| Date | Time | Pressure | Flow Rate | Density | Volume | Flow Rate | Volume | Message |
| 2002-Jan-05 | 13:49 | 45 | 4.4 | 12.59 | 222.7 | 0 | 0 | |
| 2002-Jan-05 | 13:49 | | | | | | | Start Mixing Tail Slurry |
| 2002-Jan-05 | 13:49 | 54 | 2.4 | 12.46 | 223.6 | 0 | 0 | |
| 2002-Jan-05 | 13:50 | 63 | 2.4 | 13.94 | 224.6 | 0 | 0 | |
| 2002-Jan-05 | 13:50 | 68 | 2.6 | 14.91 | 226.1 | 0 | 0 | |
| 2002-Jan-05 | 13:51 | 178 | 5.0 | 14.78 | 228.3 | 0 | 0 | |
| 2002-Jan-05 | 13:51 | 141 | 4.5 | 14.82 | 230.7 | 0 | 0 | |
| 2002-Jan-05 | 13:52 | 141 | 4.5 | 14.83 | 232.9 | 0 | 0 | |
| 2002-Jan-05 | 13:52 | 200 | 4.5 | 14.80 | 235.2 | 0 | 0 | |
| 2002-Jan-05 | 13:53 | 173 | 5.1 | 14.83 | 237.8 | 0 | 0 | |
| 2002-Jan-05 | 13:53 | 196 | 5.2 | 14.69 | 240.1 | 0 | 0 | |
| 2002-Jan-05 | 13:54 | 198 | 5.1 | 14.78 | 242.7 | 0 | 0 | |
| 2002-Jan-05 | 13:54 | 178 | 5.0 | 14.98 | 245.2 | 0 | 0 | |
| 2002-Jan-05 | 13:55 | 168 | 5.0 | 15.10 | 247.8 | 0 | 0 | |
| 2002-Jan-05 | 13:55 | 182 | 5.1 | 15.08 | 250.3 | 0 | 0 | |
| 2002-Jan-05 | 13:56 | 173 | 5.0 | 15.07 | 252.8 | 0 | 0 | |
| 2002-Jan-05 | 13:56 | 173 | 5.1 | 15.04 | 255.4 | 0 | 0 | |
| 2002-Jan-05 | 13:57 | 59 | 0.7 | 14.65 | 257.9 | 0 | 0 | |
| 2002-Jan-05 | 13:57 | -5 | 0.0 | 14.63 | 257.9 | 0 | 0 | |
| 2002-Jan-05 | 13:58 | 210 | 6.0 | 14.72 | 259.6 | 0 | 0 | |
| 2002-Jan-05 | 13:58 | -1 | 0.0 | 14.65 | 261.1 | 0 | 0 | |
| 2002-Jan-05 | 13:58 | | | | | | | End Tail Slurry |
| 2002-Jan-05 | 13:58 | | | | | | | Drop Top Plug |
| 2002-Jan-05 | 13:58 | -5 | 0.0 | 14.65 | 261.1 | 0 | 0 | |
| 2002-Jan-05 | 13:58 | -5 | 0.0 | 14.65 | 261.1 | 0 | 0 | |
| 2002-Jan-05 | 13:59 | -5 | 0.0 | 14.65 | 261.1 | 0 | 0 | |
| 2002-Jan-05 | 13:59 | | | | | | | Start Displacement |
| 2002-Jan-05 | 13:59 | -10 | 0.0 | 13.88 | 261.1 | 0 | 0 | |
| 2002-Jan-05 | 13:59 | -10 | 0.0 | 13.85 | 261.1 | 0 | 0 | |
| 2002-Jan-05 | 14:00 | 54 | 5.3 | 8.84 | 263.2 | 0 | 0 | |
| 2002-Jan-05 | 14:00 | | | | | | | Reset Total, Vol = 253.72 bbl |
| 2002-Jan-05 | 14:00 | 27 | 5.3 | 8.70 | 264.5 | 0 | 0 | |
| 2002-Jan-05 | 14:00 | 63 | 5.3 | 8.67 | 265.9 | 0 | 0 | |
| 2002-Jan-05 | 14:01 | 36 | 5.3 | 8.35 | 268.5 | 0 | 0 | |
| 2002-Jan-05 | 14:01 | 27 | 5.3 | 8.34 | 271.2 | 0 | 0 | |
| 2002-Jan-05 | 14:02 | 45 | 5.3 | 8.41 | 273.9 | 0 | 0 | |
| 2002-Jan-05 | 14:02 | 31 | 5.3 | 8.37 | 276.6 | 0 | 0 | |
| 2002-Jan-05 | 14:03 | 54 | 5.3 | 8.34 | 279.2 | 0 | 0 | |
| 2002-Jan-05 | 14:03 | 68 | 5.3 | 8.35 | 281.9 | 0 | 0 | |
| 2002-Jan-05 | 14:04 | 63 | 5.3 | 8.35 | 284.5 | 0 | 0 | |
| 2002-Jan-05 | 14:04 | 86 | 5.3 | 8.34 | 287.1 | 0 | 0 | |
| 2002-Jan-05 | 14:05 | 109 | 5.2 | 8.34 | 289.7 | 0 | 0 | |
| 2002-Jan-05 | 14:05 | 118 | 5.2 | 8.34 | 292.4 | 0 | 0 | |
| 2002-Jan-05 | 14:06 | 136 | 5.2 | 8.34 | 295.0 | 0 | 0 | |
| 2002-Jan-05 | 14:06 | 88 | 5.2 | 8.33 | 297.5 | 0 | 0 | |
| 2002-Jan-05 | 14:07 | 159 | 5.2 | 8.33 | 300.1 | 0 | 0 | |
| 2002-Jan-05 | 14:07 | 173 | 5.2 | 8.33 | 302.7 | 0 | 0 | |
| 2002-Jan-05 | 14:08 | 141 | 5.1 | 8.33 | 305.3 | 0 | 0 | |
| 2002-Jan-05 | 14:08 | 168 | 5.4 | 8.33 | 307.9 | 0 | 0 | |
| 2002-Jan-05 | 14:09 | 187 | 5.4 | 8.33 | 310.5 | 0 | 0 | |
| 2002-Jan-05 | 14:09 | 132 | 5.3 | 8.33 | 313.2 | 0 | 0 | |
| 2002-Jan-05 | 14:10 | 187 | 5.3 | 8.33 | 315.9 | 0 | 0 | |
| 2002-Jan-05 | 14:10 | 182 | 5.3 | 8.33 | 318.5 | 0 | 0 | |
| 2002-Jan-05 | 14:11 | 196 | 5.2 | 8.33 | 321.1 | 0 | 0 | |

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| Well | | Service Date | | Customer | | Job Number | |
|------------------------------|-------|--------------|-----------|-------------------|--------|------------|---------|
| Helmerich & Payne #U SA #B-4 | | 025-Jan-05 | | CHEYENNE DRILLING | | 220143976 | |
| Date | Time | Pressure | Flow Rate | Density | Volume | Sp | Message |
| 2002-Jan-05 | 14:11 | 205 | 5.2 | 8.33 | 323.7 | 0 | |
| 2002-Jan-05 | 14:12 | 214 | 5.2 | 8.33 | 326.4 | 0 | |
| 2002-Jan-05 | 14:12 | 228 | 5.1 | 8.33 | 328.9 | 0 | |
| 2002-Jan-05 | 14:13 | 237 | 5.1 | 8.33 | 331.5 | 0 | |
| 2002-Jan-05 | 14:13 | 246 | 5.2 | 8.33 | 334.2 | 0 | |
| 2002-Jan-05 | 14:14 | 265 | 5.2 | 8.33 | 336.8 | 0 | |
| 2002-Jan-05 | 14:14 | 283 | 5.2 | 8.33 | 339.4 | 0 | |
| 2002-Jan-05 | 14:15 | 283 | 5.1 | 8.33 | 342.0 | 0 | |
| 2002-Jan-05 | 14:15 | 306 | 5.1 | 8.33 | 344.5 | 0 | |
| 2002-Jan-05 | 14:16 | 315 | 5.1 | 8.33 | 347.1 | 0 | |
| 2002-Jan-05 | 14:16 | 338 | 5.1 | 8.33 | 349.6 | 0 | |
| 2002-Jan-05 | 14:17 | 352 | 5.1 | 8.33 | 352.1 | 0 | |
| 2002-Jan-05 | 14:17 | 374 | 5.1 | 8.33 | 354.7 | 0 | |
| 2002-Jan-05 | 14:18 | 393 | 5.0 | 8.33 | 357.2 | 0 | |
| 2002-Jan-05 | 14:18 | 406 | 5.0 | 8.33 | 359.7 | 0 | |
| 2002-Jan-05 | 14:19 | 416 | 4.9 | 8.33 | 362.2 | 0 | |
| 2002-Jan-05 | 14:19 | 439 | 4.9 | 8.33 | 364.6 | 0 | |
| 2002-Jan-05 | 14:20 | 443 | 4.3 | 8.33 | 367.0 | 0 | |
| 2002-Jan-05 | 14:20 | 406 | 2.0 | 8.33 | 369.0 | 0 | |
| 2002-Jan-05 | 14:21 | 416 | 2.0 | 8.33 | 370.0 | 0 | |
| 2002-Jan-05 | 14:21 | 434 | 2.9 | 8.33 | 371.3 | 0 | |
| 2002-Jan-05 | 14:22 | 448 | 2.8 | 8.33 | 372.7 | 0 | |
| 2002-Jan-05 | 14:22 | 452 | 2.8 | 8.33 | 374.1 | 0 | |
| 2002-Jan-05 | 14:23 | 461 | 2.6 | 8.33 | 375.5 | 0 | |
| 2002-Jan-05 | 14:23 | 997 | 0.0 | 8.33 | 375.9 | 0 | |
| 2002-Jan-05 | 14:24 | 1002 | 0.0 | 8.33 | 375.9 | 0 | |
| 2002-Jan-05 | 14:24 | 1008 | 0.0 | 8.33 | 375.9 | 0 | |
| 2002-Jan-05 | 14:25 | -15 | 0.0 | 8.33 | 375.9 | 0 | |
| 2002-Jan-05 | 14:25 | -15 | 0.0 | 8.33 | 375.9 | 0 | |

| Post Job Summary | | | | | | | |
|---------------------------------------|--------------------------|--------------|-------------------|---|--|--------|---------|
| Average Pump Rates, bpm | | | | Volume of Fluid Injected, bbl | | | |
| Slurry | N2 | Mud | Maximum Rate | Total Slurry | Mud | Spacer | N2 |
| 4.9 | | | 6.1 | 259 | | | |
| Treating Pressure Summary, psi | | | | Breakdown Fluid | | | |
| Maximum | Final | Average | Bump Plug In | Breakdown | Type | Volume | Density |
| 1000 | 1000 | 167 | 1000 | | | bbl | lb/gal |
| Avg. N2 Percent | Designated Slurry Volume | Displacement | Mix Water Temp | <input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 50 bbl <input type="checkbox"/> Washed thru Ports To ft | | | |
| % | bbl | 116.8 bbl | 58 °F | | | | |
| Customer or Authorized Representative | | | Dowell Supervisor | | <input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed | | |
| on Rig #5, LOU | | | Strano, Douglas | | | | |

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Comments: *[Faint, illegible text]*


Fluid Systems:

| | | | |
|--|--------------------------|------------------|----------|
| 640 Sacks 35/65 LP3/Class "C" Cement + 6% D20 + 2% S1 + 1/4 lb/sk D29 | | | |
| Density: | 12.2 lb/gal | Thickening Time: | +7 hrs |
| Yield: | 2.17 ft ³ /sk | Viscosity: | cp |
| H2O Mix: | 12 gal/sk | Break Time: | |
| H2O: | 7660 gal | Eq. Sack Weight: | 88.75 lb |
| S001 | 2 % BWOB | | 1136 |
| D029 | 0.25 lbs/sk | | 160 |
| D020 | 6 % BWOB | | 3408 |
| D132 | 27.65 lbs/sk | | 17696 |
| D903 | 61.1 lbs/sk | | 39104 |

| | | | |
|---|--------------------------|------------------|--------|
| 150 Sacks Class "C" Cement + 2% S1 + 1/4 lb/sk D29 | | | |
| Density: | 14.9 lb/gal | Thickening Time: | +4 hrs |
| Yield: | 1.34 ft ³ /sk | Viscosity: | cp |
| H2O Mix: | 6.33 gal/sk | Break Time: | |
| H2O: | 949.5 gal | Eq. Sack Weight: | 94 lb |
| D029 | 0.25 lbs/sk | | 37.5 |
| S001 | 2 % BWOB | | 282 |
| D803 | 94 lbs/sk | | 14100 |

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ORIGINAL

| | | | | | |
|---|--|---|---------------------------------------|--|-------------------------|
|  HALLIBURTON | | JOB LOG | | TICKET # 1711213 | TICKET DATE 01/16/02 |
| REGION NORTH AMERICA LAND | | NWA / COUNTRY Mid Continent | | BDA / STATE KS | COUNTY FINNEY |
| MCL ID / EMPL # MCL10110 106328 | | N.E.S. EMPLOYEE NAME NICK KORBE | | PSL DEPARTMENT Cementing Services | |
| LOCATION Liberal | | COMPANY HELMERICH AND PAYNE | | CUSTOMER REP / PHONE DAN HENSLEY | |
| TICKET AMOUNT \$32,185.26 | | WELL TYPE GAS | | APU/UM # | |
| WELL LOCATION SW OF GARDEN CITY | | DEPARTMENT CEMENT | | JOB PURPOSE CODE Cement Plug Back | |
| LEASE NAME USA | | Well No. B-4 | SEC / TRP / RING 14-26S-35W | NEB FACILITY (CLOSEST TO WELL 3) LIBERAL | |

| NEB EMP NAME/EMP # (EXPOSURE HOURS) | HRS | NEB EMP NAME/EMP # (EXPOSURE HOURS) | HRS | NEB EMP NAME/EMP # (EXPOSURE HOURS) | HRS | NEB EMP NAME/EMP # (EXPOSURE HOURS) | HRS |
|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|
| Korbe, N - 106328 | 21 | | | | | | |
| Clemens, A - 198516 | 21 | | | | | | |
| HARPER, KIRBY | 15 | | | | | | |

| Chart No. | Time | Rate (BPM) | Volume (BBL/GAL) | Rate (GPM) | Press.(PSI) | | Job Description / Remarks |
|-----------|------|------------|------------------|------------|-------------|-----------|---------------------------------------|
| | | | | | CSG | TDS | |
| | 2330 | | | | | | CALLED OUT |
| | 0330 | | | | | | ON LOCATION |
| | | | | | | | HELD SAFETY MEETING |
| | | | | | | | SET UP TRUCKS |
| | 0554 | | | | | 2500 | TEST LINES |
| | 0555 | 5.0 | 0 | | | 400 | START WATER AHEAD |
| | 0557 | 6.0 | 10//0 | | | 400 | START CEMENT |
| | 0602 | 8.0 | 27//0 | | | 0 | START WATER BEHIND |
| | 0603 | | 3.5//0 | | | | START MUD RIG BLEW UP MUD LINE |
| | 0614 | 7.0 | 0 | | | 150 | HOOKUP NEW MUDLINE START MUD |
| | 0625 | | 73.0 | | | | PLUG BALANCED |
| | 0630 | | | | | | LAY DOWN D.P. |
| | 1230 | | | | | | RUN CASING |
| | 1500 | | | | | | BREAK CIRCULATION |
| | 1603 | | | | | 2500 | TEST LINES |
| | 1604 | 5.0 | 0 | | | 300 | START MUD FLUSH |
| | 1608 | 6.5 | 20//0 | | | 450 | START CEMENT |
| | 1624 | | 104.0 | | | | END CEMENT |
| | 1625 | | | | | | WASH PUMP AND LINES |
| | 1629 | | | | | | RELEASE PLUG |
| | 1630 | 7.0 | 0 | | | 250 | START DISPLACEMENT |
| | 1641 | 6.0 | | | | 325 | CATCH CEMENT |
| | 1647 | 2.0 | 119.0 | | | 700 | SLOW RATE |
| | 1651 | 2.0 | 129.0 | | | 800//1300 | BUMP PLUG |
| | 1652 | | | | | | RELEASE PRESSURE |
| | | | | | | | FLOAT HELD |
| | 1656 | | | | | | DROP OPENING PLUG |
| | 1710 | | | | | | OPEN DV TOOL |
| | 2143 | 2.0 | 3//3 | | | | CIRCULATE 4 HOURS//PLUG R.H. AND M.H. |
| | 2153 | | | | | 2300 | TEST LINES |
| | 2154 | 6.0 | 0 | | | 200 | START MUD FLUSH |
| | 2157 | 6.5 | 20//0 | | | 250 | START CEMENT |
| | 2215 | | 121.0 | | | | END CEMENT |

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MID-CONTINENT NWA CEMENTING CALL FOR SALES & SERVICE
 MAKE SAFETY A CORE VALUE IN YOUR LIFE!
 PLEASE WORK & DRIVE SAFELY!

| | | |
|---|---------------------|--|
| COMPANY HELMERICH & PAYNE | OWNER SAME | DATE 1/15/02 |
| BILLING ADDRESS | | |
| CONTRACTOR CHEYENNE #3 | API | SEC, TWN, RNG SEC 14 - 26S - 35W |
| LEASE USA | WELL NO. B-4 | COUNTY/STATE FINNEY/KS RT MILEAGE 150/75 |
| DIRECTIONS PLYMEL SCHOOL - INORTH - 12 WEST TO RIG SIGN - 2 3/4 SOUTH TO RIG SIGN - 1/2 EAST - 1/4 SOUTH - EAST INTO | | |

| | | | | | | | |
|---|----------------------|---|-----------------------|----------------------|------------|-------------------------|-------------|
| QUOTE: 20774724 | S/O - 1711213 | KB - 1711214 | | | | | |
| SURFACE | INTER | LONG STRING YES | LINER | PLUG BACK YES | PTA | | |
| SQUEEZE | WHIPSTOCK | OTHER PLUGBACK AND DV LONGSTRING | | | | | |
| CASING SIZE 5 1/2 | WEIGHT 14 | THREAD 8RD | PLUG CONT YES | SWAGE YES | CSG SWIVEL | TOP PLUG PLUGSET | BOTTOM PLUG |
| TBG / DP SIZE 4 1/2 | WEIGHT 16.6 | THREAD 8RD | TD 6250 FT | % EXCESS 25 | MUD WT | HOLE SIZE 7 7/8 | |
| NUMBER AND TYPE TRUCKS WANTED RCM AND BULK | | | ROUND TRIP BULK TRUCK | | | | |

REMARKS **PLUGBACK @ 6250 FT CASING @ 5300 FT DV TOOL @ 3100 FT**

| | | |
|----------------------------------|-------------------------|--|
| # OF SACKS 100 | TYPE 40/60 POZ H | ADDITIVES 6% TOTAL GEL - 1/8# POLYFLAKES |
| # OF SACKS | TYPE PLUGBACK | ADDITIVES 13.5 LB/GAL - 1.53 CUFT/SK - 7.58 GAL/SK |
| # OF SACKS 400 | TYPE 50/50 POZ H | ADDITIVES 5% CALSEAL - 10% SALT - 5# GILSONITE - 5% HALAD - 322 |
| # OF SACKS 1st | TYPE STAGE | ADDITIVES 13.85 LB/GAL - 1.47 CUFT/SK - 6.18 GAL/SK |
| # OF SACKS 235 | TYPE MIDCON C | ADDITIVES 2% CC - 1/8# POLYFAKES 11.1# 3.25CF 20.39GAL |
| # OF SACKS | TYPE | ADDITIVES 25 SACKS TO PLUG RATHOLE AND MOUSEHOLE |

| | | |
|-------------------------------------|--------------------------------|---|
| SPACER TYPE 40 BBLs MUDFLUSH | QUANTITY 20 BBL / STAGE | REMARKS 400 LBS MF-1 AND 18 GALLONS MORFLO |
| SPACER TYPE | QUANTITY | REMARKS |

| | | | |
|-----|------------|---------|-----------|
| KCL | CLAYFIX II | LO-SURF | CLASTA-XP |
|-----|------------|---------|-----------|

| | | | | |
|--------------------------|-------------------------|-------------------|------------|--------------------------|
| CASING SIZE 5 1/2 | CASING WEIGHT 14 | THREAD 8RD | GUIDE SHOE | LATCH DOWN PLUG & BAFFLE |
|--------------------------|-------------------------|-------------------|------------|--------------------------|

| | | | |
|-------------------|-------------------------|---------------------------|--------------|
| INSERT FLOAT SHOE | FLOAT SHOE SS II | FLOAT COLLAR SS II | INSERT FLOAT |
|-------------------|-------------------------|---------------------------|--------------|

| | | |
|--------------------------------|---------------------------|-----------------|
| CENTRALIZER-QTY 24 EACH | SIZE 5 1/2 X 7 7/8 | TYPE S-4 |
|--------------------------------|---------------------------|-----------------|

| | | | |
|-------------------|------|---------------------------------------|--|
| WALL CLEANERS-QTY | TYPE | DV TOOL 1 EA TYPE P ES DV TOOL | DV PLUG SET 1 EA FREEFALL PLUGSET |
|-------------------|------|---------------------------------------|--|

| | | | |
|----------------------------|----------------------|--------------------------|---------------------|
| LIMIT CLAMPS 1 EACH | WELD-A 2 EACH | CMT BASKET 1 EACH | OTHER CANVAS |
|----------------------------|----------------------|--------------------------|---------------------|

| | |
|--|-------------------------------------|
| ORDERED BY: MYRON HESTON AND DEAN | TIME OF CALL: 2100 |
| CALL TAKEN BY: DON | TIME READY: RTP 0400 1/16/02 |
| CREW CALLED: KORBE - CLEMENS - BULK | TIME: |

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**HELMERICH & PAYNE, INC.
MORNING DRILLING REPORT**

ORIGINAL

| | | | | |
|----------------------------|-----------------------|------------------------|---------------------|--------------------------|
| WELL NAME USA B4 | DEPTH 4640' | FOOTAGE 340' | DAY NO. 7 | DATE 1/10/2002 |
|----------------------------|-----------------------|------------------------|---------------------|--------------------------|

| | | | | | | | | | | |
|---------------------------------|------------|-----------|------------|---------------------|----------------|---------------|-------------|-----------------|------------------|----------------|
| OPERATION AT REPORT TIME | | | | | | | | | | |
| Drilling | | | | | | | | | | |
| MW | VIS | WL | LCM | SURVEY DEPTH | DEGREES | BIT NO | SIZE | DEPTH IN | DEPTH OUT | FOOTAGE |
| 9.0 | 56.0 | 26.0 | 3 | | | 2 | 7 7/8 | 1872' | 4300' | 2428' |
| | | | | SURVEY DEPTH | DEGREES | BIT NO | SIZE | DEPTH IN | DEPTH OUT | FOOTAGE |
| | | | | | | 3 | 7 7/8 | 4300' | OB | 340' |

| | | |
|---------------------------|-------|--|
| TIME SUMMARY HOURS | 13.25 | ROTATING |
| | 10 | DAYWORK (CIRC, DST, LOG, RUN/CEMENT PROD CSG) |
| | 0.75 | OTHER "NON-DAYWORK" (TRIPPING, RIG SERV & REPAIR, CLEAN PITS, RUN/CEMENT SURFACE CSG, ETC) |

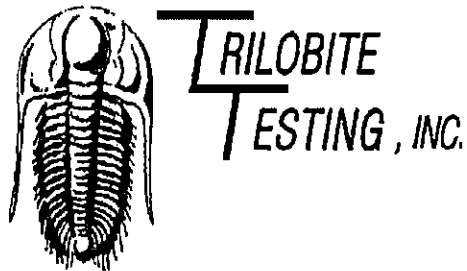
| | | | |
|-------------------|--------------|------------------|----------------|
| GEOL SHOWS | DEPTH | FORMATION | REMARKS |
| | | | |
| | DEPTH | FORMATION | REMARKS |
| | | | |

| | | | | | |
|----------------------------|---|----------------|-----|-------------------------------------|------------------------------|
| DST NO: | | MINUTES | | IHP= 2,010 psi | SAMPLER: 2,200 CC OIL |
| DST COMPANY: | Trilobite | 15 | min | ISIP= 1,215 psi | 1,100 CC WTR |
| FORMATION: | KC A | 60 | min | IFP= 99 psi to 357 psi | CC MUD |
| INTERVAL: | 4273' to 4300' | 30 | min | FSIP= 1,211 psi | 0.4 CF GAS |
| | | 120 | min | FFP= 356 psi to 562 psi | OTHER: |
| DRILL PIPE RECOVERY | 1170' | | | FHP= 2,005 psi | |
| | 60 ft c g o 30% gas, 70% oil, 0.30 bbl | | | | |
| | 990 ft s o & g c w 5% o, 10% g, reverse 8.17 bbl | | | WATER CHLORIDES 22,500 ppm | |
| | 120 ft under circ sub s o c w 3% o 97% w 1.68 bbl | | | DRLG MUD CHLORIDES 1,900 ppm | |
| | | | | MUD PIT CHLORIDES 2,600 ppm | |
| REMARKS | Reverse test fluid to swab tank, color cut tank 40% oil , 60% water | | | | |

| TIME | HRS | ACTIVITY |
|------|-------|--|
| 7:00 | 1 | DST # 1 / Testing |
| | 3 | TOOH w/ Test & circ oil into tank & lay down test tool |
| | 1/2 | Jet oil out of cellar & clean ditches |
| | 1 1/2 | TIH w/Bit |
| | 1 | Circ on btm |
| | 1 | DRLG 4300'- 4329' |
| | 1/4 | DRLG 4329'- 4338' |
| | 1/4 | Service Rig |
| | 1 | DRLG 4338'- 4374' |
| | 1 | CFS @ 4374' 30-60 |
| | 5 1/2 | DRLG 4374'- 4505' |
| | 1 3/4 | DRLG 4505'- 4550' |
| | 1 | CFS @ 4550' 30-60 |
| | 1/4 | DRLG 4550'- 4554' |
| | 1/2 | Service Rig & pump, clean suction pit @ 4554' |
| | 1/2 | DRLG 4554'- 4574' |
| | 1 | CFS @ 4574' 30-60 |
| 7:00 | 3 | DRLG 4574'- 4640' |
| | 24 | |

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| | | |
|-----------------------------|-------------------------------|------------------------|
| DAILY DRILLING COSTS | DAILY COMPLETION COSTS | |
| LOCATION / SURVEY | CASING | |
| DAMAGES | CEMENTING | |
| RIG TURNKEY | RIG DAYWORK | |
| \$2,650 RIG DAYWORK | SUPERVISION | |
| \$1,500 DST TOOLS | OTHER | |
| \$300 MUD LOGGER | | |
| LOGS | | |
| \$500 GEOLOGIST | | |
| SUPERVISION | | |
| DOZER | | |
| | | |
| \$4,950 DAILY DRLG COST | DAILY COMPLETION COST | |
| \$31,044 CUM DRLG COST | CUM COMPLETION COST | CUM WELL COST \$31,044 |



DRILL STEM TEST REPORT

Prepared For: **Helmerich & Payne Inc.**

1579 E 21st.
Tulsa ,OK 74114

ATTN: Helmerich & Payne

14-26s-35w Kearny KS

U.S.A. "B" #4

Start Date: 2002.01.09 @ 02:44:53

End Date: 2002.01.09 @ 11:57:52

Job Ticket #: 15017 DST #: 1

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KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Helmerich & Payne Inc.

U.S.A. "B" #4

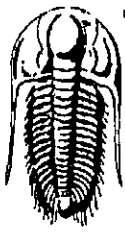
14-26s-35w Kearny KS

DST # 1

KC

2002.01.09

ORIGINAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Helmerich & Payne Inc.

U.S.A. "B" #4

1579 E 21st.
Tulsa, OK 74114

14-26s-35w Kearny KS

Job Ticket: 15017

DST#: 1

ATTN: Helmerich & Payne

Test Start: 2002.01.09 @ 02:44:53

GENERAL INFORMATION:

Formation: **KC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: **05:36:52**

Time Test Ended: **11:57:52**

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **15**

Interval: **4273.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Reference Elevations: **3009.00 ft (KB)**

Total Depth: **4300.00 ft (KB) (TVD)**

2998.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **11.00 ft**

Serial #: 3227

Inside

Press@RunDepth: **562.72 psig @ 4274.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.01.09**

End Date:

2002.01.09

Last Calib.: **1899.12.30**

Start Time: **02:44:53**

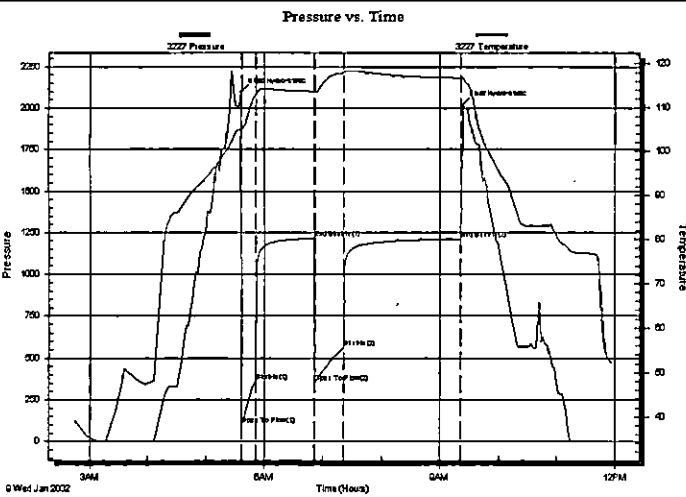
End Time:

11:57:52

Time On Btm: **2002.01.09 @ 05:35:52**

Time Off Btm: **2002.01.09 @ 09:22:52**

TEST COMMENT: B.O.B in 4 min.
No return
B.O.B. in 6 min.
Return blow in 7 min. built to 3" in.



PRESSURE SUMMARY

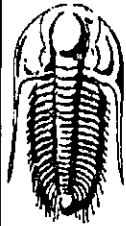
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2097.12 | 105.11 | Initial Hydro-static |
| 1 | 99.21 | 105.09 | Open To Flow (1) |
| 15 | 357.96 | 112.94 | Shut-In(1) |
| 75 | 1215.67 | 113.65 | End Shut-In(1) |
| 76 | 356.70 | 113.56 | Open To Flow (2) |
| 105 | 562.72 | 118.06 | Shut-In(2) |
| 225 | 1211.46 | 116.69 | End Shut-In(2) |
| 227 | 2021.58 | 116.78 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 60.00 | c g o 30%g 70%o | 0.30 |
| 990.00 | s o & g c w 5%o 10%g 85%w reversed | 8.17 |
| 120.00 | under circ sub s o c w 3%o 97%w | 1.68 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Helmerich & Payne Inc.

U.S.A. "B" #4

1579 E21st.
Tulsa, OK 74114

14-26s-35w Kearny KS

Job Ticket: 15017

DST#: 1

ATTN: Helmerich & Payne

Test Start: 2002.01.09 @ 02:44:53

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3576.00 ft | Diameter: 3.80 inches | Volume: 50.16 bbl | Tool Weight: 1500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 688.00 ft | Diameter: 2.25 inches | Volume: 3.38 bbl | Weight to Full Loose: 100000.0 lb |
| | | | <u>Total Volume: 53.54 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 21.00 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 4273.00 ft | | | Final 76000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 27.00 ft | | | |
| Tool Length: | 57.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

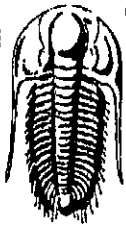
Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 4244.00 | |
| S.I. Tool | 5.00 | | | 4249.00 | |
| Sampler | 3.00 | | | 4252.00 | |
| HMV | 5.00 | | | 4257.00 | |
| Jars | 5.00 | | | 4262.00 | |
| Safety Joint | 2.00 | | | 4264.00 | |
| Packer | 5.00 | | | 4269.00 | 30.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4273.00 | |
| Stubb | 1.00 | | | 4274.00 | |
| Recorder | 0.00 | 3227 | Inside | 4274.00 | |
| Perforations | 21.00 | | | 4295.00 | |
| Recorder | 0.00 | 11057 | Outside | 4295.00 | |
| Bullnose | 5.00 | | | 4300.00 | 27.00 Bottom Packers & Anchor |

Total Tool Length: 57.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Helmerich & Payne Inc.

U.S.A. "B" #4

1579 E 21st.
Tulsa, OK 74114

14-26s-35w Kearny KS

Job Ticket: 15017

DST#: 1

ATTN: Helmerich & Payne

Test Start: 2002.01.09 @ 02:44:53

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 13.97 in³
Resistivity: 0.00 ohm.m
Salinity: 2600.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 22500 ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--|---------------|
| 60.00 | c g o 30%g 70%o | 0.295 |
| 990.00 | s o & g c w 5%0 10%g 85%w reversed out | 8.166 |
| 120.00 | under circ sub s o c w 3%o 97%w | 1.683 |

Total Length: 1170.00 ft Total Volume: 10.144 bbl

Num Fluid Samples: 0

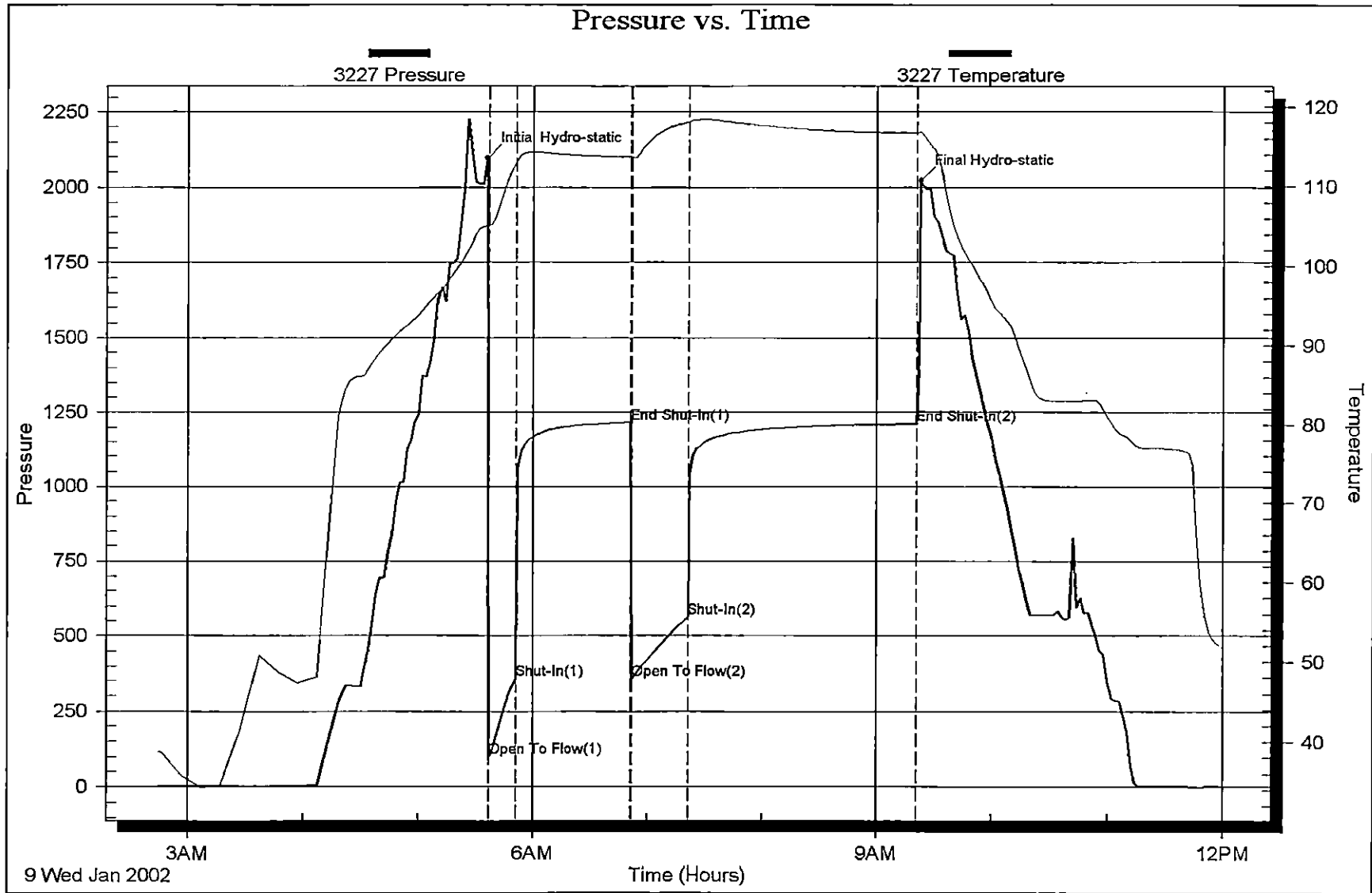
Num Gas Bombs: 0

Serial #:

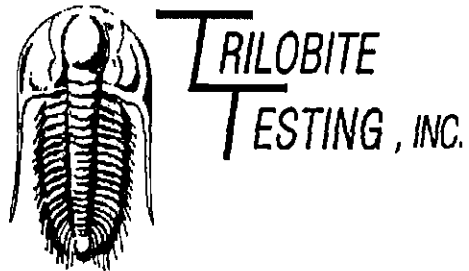
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .38@55F



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DRILL STEM TEST REPORT

Prepared For: **Helmerich & Payne Inc.**

1579 E 21st.
Tulsa ,OK 74114

ATTN: Helmerich & Payne

14-26s-35w Kearny KS

U.S.A. "B" #4

Start Date: 2002.01.11 @ 17:32:02

End Date: 2002.01.12 @ 03:22:32

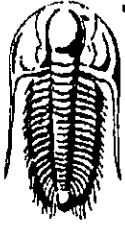
Job Ticket #: 15031 DST #: 2

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Helmerich & Payne Inc.

1579 E 21st.
Tulsa, OK 74114

ATTN: Helmerich & Payne

U.S.A. "B" #4

14-26s-35w Kearny KS

Job Ticket: 15031

DST#: 2

Test Start: 2002.01.11 @ 17:32:02

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:33:32

Time Test Ended: 03:22:32

Interval: **5024.00 ft (KB) To 5085.00 ft (KB) (TVD)**

Total Depth: **5085.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Reference Elevations: 3009.00 ft (KB)

2998.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **3030**

Inside

Press@RunDepth: 53.55 psig @ 5025.00 ft (KB)

Start Date: 2002.01.11

End Date: 2002.01.12

Start Time: 17:32:07

End Time: 03:22:32

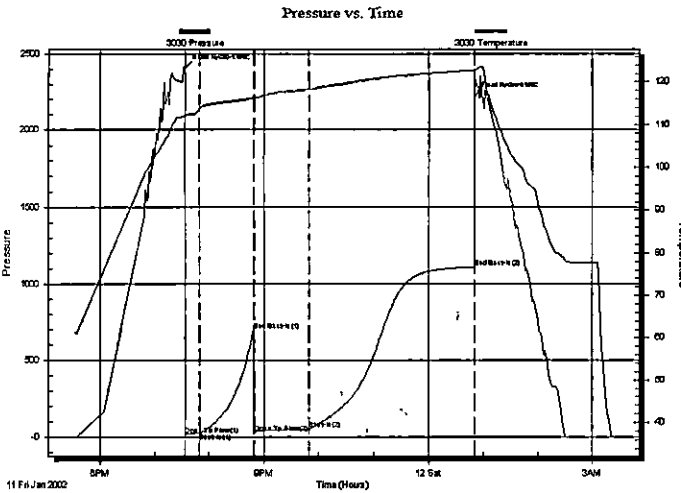
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2002.01.11 @ 19:33:17

Time Off Btm: 2002.01.12 @ 00:50:31

TEST COMMENT: IF; Weak blow built to 2"
IS; No blow
FF; Fair blow built to btm in 10 mins decreased to 12" @ 60 mins.
FS; No blow



PRESSURE SUMMARY

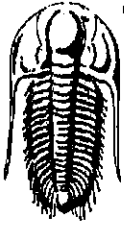
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2403.65 | 112.02 | Initial Hydro-static |
| 1 | 16.82 | 112.04 | Open To Flow (1) |
| 17 | 25.68 | 113.66 | Shut-In(1) |
| 76 | 695.67 | 116.21 | End Shut-In(1) |
| 77 | 29.08 | 116.23 | Open To Flow (2) |
| 137 | 53.55 | 118.29 | Shut-In(2) |
| 317 | 1110.49 | 122.68 | End Shut-In(2) |
| 318 | 2220.08 | 122.70 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 825.00 | GIP | 5.42 |
| 90.00 | OCM 30%gas 15%oil 55%mud | 1.26 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (Inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Helmerich & Payne Inc.

U.S.A. "B" #4

1579 E 21st.
Tulsa, OK 74114

14-26s-35w Kearny KS

Job Ticket: 15031

DST#: 2

ATTN: Helmerich & Payne

Test Start: 2002.01.11 @ 17:32:02

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4335.00 ft | Diameter: 3.80 inches | Volume: 60.81 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 675.00 ft | Diameter: 2.25 inches | Volume: 3.32 bbl | Weight to Pull Loose: 100000.0 lb |
| | | | <u>Total Volume: 64.13 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 16.00 ft | | | String Weight: Initial 80000.00 lb |
| Depth to Top Packer: | 5024.00 ft | | | Final 84000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 61.00 ft | | | |
| Tool Length: | 91.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

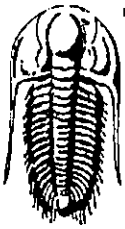
Sampler Data; 800#psi
3500ml Gas

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| S.I. Tool | 5.00 | | | 4999.00 | |
| Sampler | 3.00 | | | 5002.00 | |
| HMV | 5.00 | | | 5007.00 | |
| Jars | 5.00 | | | 5012.00 | |
| Safety Joint | 2.00 | | | 5014.00 | |
| Packer | 5.00 | | | 5019.00 | 30.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 5024.00 | |
| Stubb | 1.00 | | | 5025.00 | |
| Recorder | 0.00 | 3030 | Inside | 5025.00 | |
| Perforations | 22.00 | | | 5047.00 | |
| C.O. Sub | 1.00 | | | 5048.00 | |
| Anchor | 31.00 | | | 5079.00 | |
| C.O. Sub | 1.00 | | | 5080.00 | |
| Recorder | 0.00 | 13371 | Outside | 5080.00 | |
| Bullnose | 5.00 | | | 5085.00 | 61.00 Bottom Packers & Anchor |

Total Tool Length: 91.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Helmerich & Payne Inc.

U.S.A. "B" #4

1579 E 21st.
Tulsa, OK 74114

14-26s-35w Kearny KS

Job Ticket: 15031

DST#: 2

ATTN: Helmerich & Payne

Test Start: 2002.01.11 @ 17:32:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 825.00 | GIP | 5.424 |
| 90.00 | OCM 30%gas 15%oil 55%mud | 1.262 |

Total Length: 915.00 ft Total Volume: 6.686 bbl

Num Fluid Samples: 0

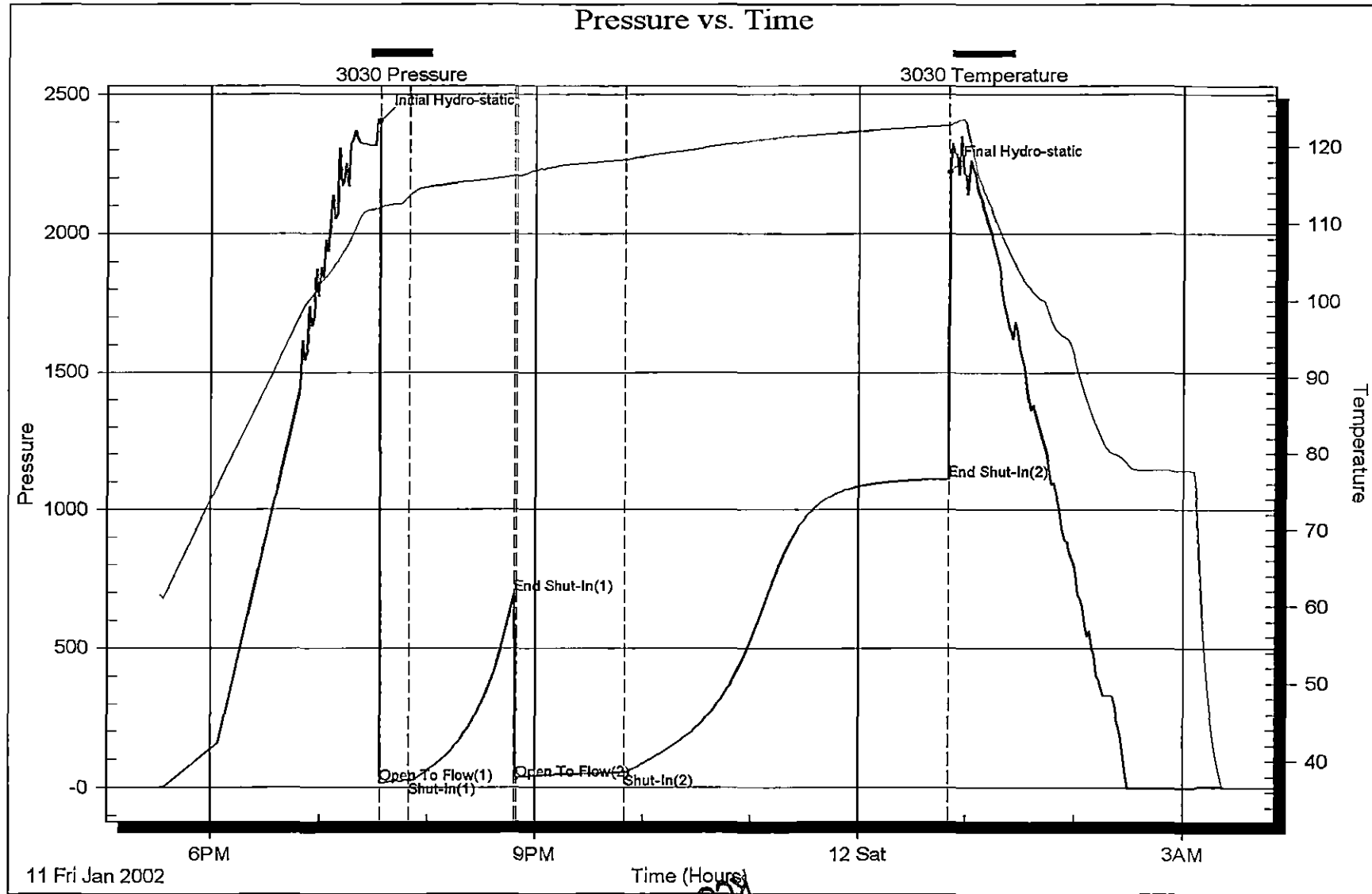
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data; 800#psi
3500ml Gas



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