

# ORIGINAL

SIDE ONE

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

API NO. 15- 179-20,985-00-00

County Sheridan

NW NW NW Sec. 34 Twp. 8S Rge. 26  East West

4950'  Ft. North from Southeast Corner of Section

4950'  Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

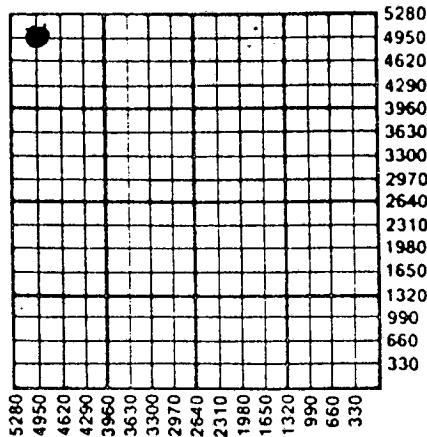
Lease Name Pratt B  Well # 4

Field Name Unnamed

Producing Formation LKC

Elevation: Ground 2565 KB 2570

Total Depth 3965' PBDT ---



Amount of Surface Pipe Set and Cemented at 264.70 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 2187' Feet

If Alternate II completion, cement circulated from 2187

feet depth to Surface w/ 375 sx cmt.

Operator: License # 5474

Name: Northern Lights Oil Co.

Address P.O. Box 164

City/State/Zip Andover, KS 67002

Purchaser: CLEAR CREEK, INC.

Operator Contact Person: John Sutherland, Jr.

Phone (316) 733-1515

Contractor: Name: Abercrombie Drilling, Inc.

License: 5422

Wellsite Geologist: Kevin Howard STATE CORPORATION COMMISSION

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp Conservation

Gas  Inj  Delayed Completion

Dry  Other (Core, Water Supply, etc.)

If ONNO: old well info as follows:

Operator: N/A

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

1-22-91 1-28-91 2-1-91

Spud Date Date Reached TD Completion Date

**INSTRUCTIONS:** This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

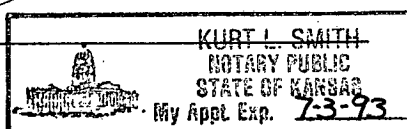
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature John W. Sutherland  
Title General Partner Date 2/18/91

Subscribed and sworn to before me this 18th day of FEBRUARY, 1991.

Notary Public [Signature]

Date Commission Expires 7-3-1993



**K.C.C. OFFICE USE ONLY**

F  Letter of Confidentiality Attached  
 C  Wireline Log Received  
 C  Drillers Timelog Received

**Distribution**

KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)

pl

**SIDE TWO**

Operator Name Northern Lights Oil Co. Lease Name Pratt B Well # 4  
 Sec. 34 Twp. 8S Rge. 26  East  
 County Sheridan  West

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>(Attach Additional Sheets.)<br><br>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>(Submit Copy.)<br><br>DST's Attached | <p style="text-align: center;"><b>Formation Description</b></p> <p><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Bottom</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>2174</td> <td>2208</td> </tr> <tr> <td>Heebner</td> <td>3681</td> <td></td> </tr> <tr> <td>Lansing</td> <td>3718</td> <td></td> </tr> <tr> <td>BKC</td> <td>3938</td> <td></td> </tr> <tr> <td>RTD</td> <td>3965</td> <td></td> </tr> <tr> <td>LTD</td> <td>3963</td> <td></td> </tr> </tbody> </table> | Name   | Top | Bottom | Anhydrite | 2174 | 2208 | Heebner | 3681 |  | Lansing | 3718 |  | BKC | 3938 |  | RTD | 3965 |  | LTD | 3963 |  |
|---|--|--------|-----|--------|-----------|------|------|---------|------|--|---------|------|--|-----|------|--|-----|------|--|-----|------|--|
| Name  | Top  | Bottom |     |        |           |      |      |         |      |  |         |      |  |     |      |  |     |      |  |     |      |  |
| Anhydrite   | 2174   | 2208   |     |        |           |      |      |         |      |  |         |      |  |     |      |  |     |      |  |     |      |  |
| Heebner   | 3681   |        |     |        |           |      |      |         |      |  |         |      |  |     |      |  |     |      |  |     |      |  |
| Lansing   | 3718   |        |     |        |           |      |      |         |      |  |         |      |  |     |      |  |     |      |  |     |      |  |
| BKC   | 3938   |        |     |        |           |      |      |         |      |  |         |      |  |     |      |  |     |      |  |     |      |  |
| RTD   | 3965   |        |     |        |           |      |      |         |      |  |         |      |  |     |      |  |     |      |  |     |      |  |
| LTD   | 3963   |        |     |        |           |      |      |         |      |  |         |      |  |     |      |  |     |      |  |     |      |  |

**CASING RECORD**  New  Used  
 Report all strings set-conductor, surface, intermediate, production, etc.

| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives   |
|-------------------|-------------------|---------------------------|-----------------|---------------|----------------|--------------|------------------------------|
| Surface           | 12 1/2"           | 8 5/8"                    | 20#             | 264.70        | 60-40pozmix    | 180          | 2%gel 3%cc                   |
| Production        | 7 7/8"            | 5 1/2"                    | 14#             | 3962'         | 100 EA-2       | 100          | 5%Caseal<br>.5%322, 25%Deair |

| Shots Per Foot | PERFORATION RECORD<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used)<br>Depth |
|----------------|---|--|
| 2              | 3900 to 3905  | 1000 Gal 15% NE  |
| 2              | 3868 to 3870  | Natural  |
| 2              | 3845 to 3849  | Natural  |
| 2              | 3797 to 3800  | 750 Gal 15% NE   |
| 2              | 3754 to 3756  | 100 Gal MCA &<br>1750 Gal 15% NE   |

**TUBING RECORD**  
 Size 2 7/8 Set At 3900 Packer At \_\_\_\_\_  
 Liner Run  Yes  No

Date of First Production 2-14-91 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)  
 Estimated Production Per 24 Hours  
 Oil 100 Bbls. Gas \_\_\_\_\_ Mcf Water \_\_\_\_\_ Bbls. Gas-Oil Ratio \_\_\_\_\_ Gravity 40

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
**METHOD OF COMPLETION**  Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

# ORIGINAL

## Drill-Stem Test Data

15-177-20985-00-00

Well Name & No. PRATT "B" #4 Test No. 1 Date 1/26/91  
 Company NORTHERN LIGHTS OIL CO L.P. Zone Tested LANSING-D E & F  
 Address P.O. BOX 164 ANDOVER KS 67002 Elevation 2570 KB  
 Co. Rep./Geo. MR KEVIN HOWARD Cont. ABERCROMBIE #8 Est. Ft. of Pay 4  
 Location: Sec. 34 Twp. B5 Rge. 26W Co. SHERIDAN State KANSAS

Interval Tested 3763-3806 Drill Pipe Size 4.5" XH  
 Anchor Length 43 Top Choke — 1" Bottom Choke — 1/4"  
 Top Packer Depth 3758 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 3763 Wt. Pipe I.D. — 2.7 Ft. Run 0  
 Total Depth 3806 Drill Collar — 2.25 Ft. Run 0  
 Mud Wt. 9.3 lb/gal. Viscosity 46 Filtrate 11.2  
 Tool Open @ 6:17 PM Initial Blow FAIR BLOW SLOWLY BUILT TO BOTTOM IN 8  
MINUTES-ISI: BLED OFF BLOW-SURFACE RETURN BLOWING @ 1/2" THROUGHOUT  
 Final Blow FAIR RETURN SLOWLY BUILT TO BOTTOM IN 15 MINUTES-  
FSI: BLED OFF BLOW-SURFACE RETURN STAYED @ 1/2" THROUGHOUT  
 Recovery — Total Feet 700 Flush Tool? NO  
 Rec. 850 Feet of GAS IN PIPE  
 Rec. 390 Feet of CLEAN GASSY OIL-20%GAS/80%OIL  
 Rec. 186 Feet of GASSY OIL CUT MUD-45%GAS/18%OIL/37%MUD  
 Rec. 62 Feet of GASSY OIL CUT MUD-48%GAS/12%OIL/40%MUD  
 Rec. 62 Feet of GASSY OIL CUT MUD-35%GAS/5%OIL/60%MUD  
 BHT 118 °F Gravity 36 °API @ 32 °F Corrected Gravity 38.8 °API  
 RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1500 ppm System  
 (A) Initial Hydrostatic Mud 1970.3 PSI Ak1 Recorder No. 13309 Range 4700  
 (B) First Initial Flow Pressure 61.5 PSI @ (depth) 3801 w/Clock No. 27567  
 (C) First Final Flow Pressure 171.4 PSI Ak1 Recorder No. 13339 Range 4025  
 (D) Initial Shut-In Pressure 863.2 PSI @ (depth) 3765 w/Clock No. 30418  
 (E) Second Initial Flow Pressure 210.2 PSI Ak1 Recorder No. 0 Range 0  
 (F) Second Final Flow Pressure 284.5 PSI @ (depth) 0 w/Clock No. 0  
 (G) Final Shut-In Pressure 852.3 PSI Initial Opening 30  
 (H) Final Hydrostatic Mud 1839.6 PSI Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60

RECEIVED  
 STATE CORPORATION  
 2-19-1991  
 FFR 10

MR ROD STEINBRINK

Our Representative \_\_\_\_\_

TOTAL PRICE \$ \_\_\_\_\_ 550

15-179-20985-00-00

# TRILOBITE TESTING COMPANY ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

|  |                                |   |
|--|--------------------------------|---|
| Well Name & No. <u>PRATT "B" #4</u>          | Test No. <u>2</u>              | Date <u>1/27/91</u>                                     |
| Company <u>NORTHERN LIGHTS OIL CO L.P.</u>   | Zone Tested <u>LANSING "H"</u> |   |
| Address <u>P.O. BOX 164 ANDOVER KS 67002</u> | Elevation <u>2570 KB</u>       |   |
| Co. Rep./Geol <u>MR KEVIN HOWARD</u>         | Cont. <u>ABERCROMBIE #8</u>    | Est. Ft. of Pay <u>4</u>                                |
| Location: Sec. <u>34</u>                     | Twp. <u>8S</u>                 | Rge. <u>26W</u> Co. <u>SHERIDAN</u> State <u>KANSAS</u> |

|                                  |   |
|----------------------------------|---|
| Interval Tested <u>3831-3862</u> | Drill Pipe Size <u>4.5" XH</u>  |
| Anchor Length <u>31</u>          | Top Choke — 1" <u>        </u> Bottom Choke — 3/4" <u>        </u>      |
| Top Packer Depth <u>3826</u>     | Hole Size — 7 7/8" <u>        </u> Rubber Size — 6 3/4" <u>        </u> |
| Bottom Packer Depth <u>3831</u>  | Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>                                    |
| Total Depth <u>3862</u>          | Drill Collar — 2.25 Ft. Run <u>0</u>                                    |
| Mud Wt. <u>9.3</u> lb/gal.       | Viscosity <u>45</u> Filtrate <u>10.4</u>                                |

Tool Open @ 10:31 AM Initial Blow STRONG BLOW OFF BOTTOM IN 1 MINUTE-  
ISI: BLED OFF BLOW-SURFACE BLOW BUILT TO BOTTOM IN 15 MINS  
 Final Blow STRONG RETURN BACK TO BOTTOM IN 1 MINUTE  
FSI: BLED OFF BLOW-GAS TO SURFACE IN 4 MINUTES WITH 2" OPEN

Recovery — Total Feet 1550 Flush Tool? NO

|                      |   |
|----------------------|---|
| Rec. <u>1430</u>     | Feet of <u>CLEAN GASSY OIL-15%GAS/85%OIL (REVERSED INTO MUD SYSTEM)</u> |
| Rec. <u>        </u> | Feet of <u>        </u>   |
| Rec. <u>120</u>      | Feet of <u>MUDDY WTR-80%WATER/20%MUD</u>                                |
| Rec. <u>0</u>        | Feet of <u>        </u>   |
| Rec. <u>0</u>        | Feet of <u>        </u>   |

RECEIVED  
 STATE CORPORATION COMMISSION  
 2-19-1991  
 FEB 19 1991

BHT 0 °F Gravity          °API @          °F Corrected Gravity          °API

RW 118 @          °F Chlorides          %m Recovery Chlorides 46 ppm/system

(A) Initial Hydrostatic Mud 43 59 AK1 Recorder No. 3850 Range 500

(B) First Initial Flow Pressure 1944.3 PSI @ (depth) 13309 w/Clock No. 4700

(C) First Final Flow Pressure 116.2 PSI AK1 Recorder No. 3836 Range 27567

(D) Initial Shut-In Pressure 401.2 PSI @ (depth) 13339 w/Clock No. 4025

(E) Second Initial Flow Pressure 1005.6 PSI AK1 Recorder No. 3857 Range 30418

(F) Second Final Flow Pressure 471.5 PSI @ (depth) 0 w/Clock No. 0

(G) Final Shut-In Pressure 573.2 PSI Initial Opening 0 0

(H) Final Hydrostatic Mud 1005.6 PSI Initial Shut-In 20  
1885.4 Final Flow 45  
 Final Shut-In 20

60

Our Representative MR ROD STEINBRINK

TOTAL PRICE \$ 585

15-179-20985-00-00

713-483-2627, Russell, Kansas  
Phone 316-793-5861, Great Bend, Kansas

ORIGINAL Phone Plainville 913-434-2812  
Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC. No. 8400

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

New

|                     |                |           |                    |          |                     |        |          |            |         |             |          |           |         |        |         |
|---------------------|----------------|-----------|--------------------|----------|---------------------|--------|----------|------------|---------|-------------|----------|-----------|---------|--------|---------|
| Date                | 1-23-91        | Sec.      | 34                 | Twp.     | 8                   | Range  | 26       | Called Out | 9:00 PM | On Location | 11:30 PM | Job Start | 1:45 AM | Finish | 2:15 AM |
| Lease               | Pratt          | Well. No. | B-4                | Location | Studley 2 1/2 25 3W | County | Shepherd | State      | Ks.     |             |          |           |         |        |         |
| Contractor          | Abercrombie #8 |           |                    |          |                     |        |          |            |         |             |          |           |         |        |         |
| Type Job            | Surface        |           |                    |          |                     |        |          |            |         |             |          |           |         |        |         |
| Hole Size           | 8 1/2          |           | T.D. 269'          |          |                     |        |          |            |         |             |          |           |         |        |         |
| Csg.                | 8 7/8          |           | Depth 268'         |          |                     |        |          |            |         |             |          |           |         |        |         |
| Tbg. Size           |                |           | Depth              |          |                     |        |          |            |         |             |          |           |         |        |         |
| Drill Pipe          |                |           | Depth              |          |                     |        |          |            |         |             |          |           |         |        |         |
| Tool                |                |           | Depth              |          |                     |        |          |            |         |             |          |           |         |        |         |
| Cement Left in Csg. | 15'            |           | Shoe Joint         |          |                     |        |          |            |         |             |          |           |         |        |         |
| Press Max.          |                |           | Minimum            |          |                     |        |          |            |         |             |          |           |         |        |         |
| Meas Line           |                |           | Displace 16.49 bbl |          |                     |        |          |            |         |             |          |           |         |        |         |
| Perf.               |                |           |                    |          |                     |        |          |            |         |             |          |           |         |        |         |

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

Charge To: Northern Lights Oil Co.  
Street: Box 164  
City: Andover State Ks. 67002

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

Purchase Order No.   
X Anthony Martz

**CEMENT**

Amount Ordered: 180 <sup>6%</sup> 40 <sup>2%</sup> 961 <sup>3%</sup> CC

**EQUIPMENT**

|             |          |        |
|-------------|----------|--------|
| No.         | Cementer | Kris   |
| Pumptrk 158 | Helper   | Johnny |
| No.         | Cementer |        |
| Pumptrk     | Helper   |        |
|             | Driver   | Bob    |
| Bulktrk 199 | Driver   |        |

|                |     |       |         |
|----------------|-----|-------|---------|
| Consisting of: |     |       |         |
| Common         | 108 | 5.25  | 567.00  |
| Poz. Mix       | 72  | 2.25  | 162.00  |
| Gel.           | 4   | 6.75  | NIC     |
| Chloride       | 5   | 21.00 | 105.00  |
| Quickset       |     |       |         |
| Sales Tax      |     |       |         |
| Handling       | 180 | 1.00  | 180.00  |
| Mileage        | 55  |       | 396.00  |
| Sub Total      |     |       |         |
| Total          |     |       | 1410.00 |

**DEPTH of Job**

|            |               |        |
|------------|---------------|--------|
| Reference: | Pump Trk. Chg | 380.00 |
|            | 55 Mileage    | 110.00 |
|            | 1 8 7/8 TWP   | 42.00  |
| Sub Total  |               |        |
| Tax        |               |        |
| Total      |               | 532.00 |

Floating Equipment

Total \$ 1942.00  
Disc - 388.40

Remarks: Cement Dredging

Allied Cementing Co. State Corporation Commission  
By: Ken Klyke 2-19-1991

\$ 1553.60

Thank you!!

DISTRICT ODERLIN, KS

DATE 1-28-91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Northern Lights (CUSTOMER)  
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. B-4 LEASE Peatt SEC. 34 TWP. 8s RANGE 26w

FIELD Peatt COUNTY Sheeard STATE Ks OWNED BY Northern Lights

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
PACKER: TYPE DV@2186' SET AT \_\_\_\_\_  
TOTAL DEPTH 3965 MUD WEIGHT \_\_\_\_\_  
BORE HOLE 7 7/8  
INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

|              | NEW USED | WEIGHT    | SIZE         | FROM           | TO           | MAX. ALLOW. P.S.I. |
|--------------|----------|-----------|--------------|----------------|--------------|--------------------|
| CASING       | <u>U</u> | <u>14</u> | <u>5 1/2</u> | <u>C.L</u>     | <u>3964</u>  |                    |
| LINER        |          |           |              |                |              |                    |
| TUBING       |          |           |              |                |              |                    |
| OPEN HOLE    |          |           |              |                |              | SHOTS/FT.          |
| PERFORATIONS |          |           |              | <u>2-19</u>    | <u>-199'</u> |                    |
| PERFORATIONS |          |           |              | <u>FFR 1 0</u> | <u>199'</u>  |                    |
| PERFORATIONS |          |           |              |                |              |                    |

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_  
Cmt. Longstring Two Stage: 1st Stage: 20BBL SAT Flush 10 BBL DSD Super Flush  
100SKS EA-2W, 5% CAL-SEA, 10% SAT, 1/2" WWD 32, 25 DA  
20BBL SAT Flush Top Stage: 375 HLC w/ 1/4" Floate  
50SK Sld.

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law:
  - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
  - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
  - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
- The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED Anthony Martin CUSTOMER

DATE 1-28-91

HALLIBURTON SERVICES  
JOB LOG

WELL NO. B-4 LEASE PRATT TICKET NO. 15-179-20985-00-00  
 CUSTOMER Northern Lights ORIGINAL PAGE NO. 904768  
 JOB TYPE Two Stage Long string DATE 1-28-91

FORM 2013 R-2

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS   |
|-----------|------|------------|--------------|-------|---|----------------|--------|--|
|           |      |            |              | T     | C | TUBING         | CASING |  |
|           | 2130 |            |              |       |   |                |        | (1-27-91) TIME CALLED - READY @ 0830 1-28-91   |
|           | 0830 |            |              |       |   |                |        | ON LOC - Rig laying down D.P.  |
|           | 1030 |            |              |       |   |                |        | D.P. DOWN - Rig up to RUN CSG  |
|           |      |            |              |       |   |                |        | START 5 1/2" USED 14" CSG - Insert FLOAT Shoe w/ Auto fill Assy, Baffle in 1 <sup>ST</sup> COLLAR, Cont. on 1 <sup>ST</sup> COLLAR, 10' DOWN FROM 2 <sup>ND</sup> COLLAR, 6' DOWN FROM 3 <sup>RD</sup> COLLAR, 14' UP FROM BTM OF JT #5, 4' UP FROM BTM OF JT #7 & COLLARS #8-55-57 & 95. D/V tool on top of jt #56 & cement baskets on jt #55 & 95 2186.11' |
|           | 1302 |            |              |       |   |                |        | CSG ON BTM.  |
|           | 1302 |            |              |       |   |                |        | Rig up to Circ.  |
|           | 1314 |            |              |       |   |                |        | Circ hole w/ Rig pump  |
|           | 1402 |            |              |       |   | 200            |        | Finish Circ - Hook to HATCO  |
|           | 1410 | 5          | 20-3         | 1     |   | 350            |        | START 20 BBL SALT Flush w/ 3 BBL FRESH H2O Behind  |
|           |      | 5          | 10-3         | 1     |   | 350            |        | START 420 gal Super Flush followed by 3 BBL F.W. Space   |
|           | 1422 | 6          |              | 1     |   | 350            |        | START mix - 100 sk EA-2 w/ 5% CR SEAL, 10% SAT, 5% H2O 322.4 25.0 AIR.   |
|           | 1428 | 6          | 24.58        | 1     |   | 200            |        | Finish mixing - Washout pump & lines Release Shut off plug   |
|           | 1430 | 7          |              | 1     |   | 200            |        | START Disp - 36 BBL H2O - 60 BBL Delg Mud.   |
|           | 1446 | 6          | 96           | 1     |   | 1500           |        | Finish Disp.   |
|           | 1448 |            |              |       |   |                |        | RELEASE PSI & hold   |
|           | 1450 |            |              |       |   |                |        | Drop opening plug  |
|           | 1510 |            |              | 1     |   | 1400           |        | Open D.V - Circ hole w/ Rig pump   |
|           | 1605 |            |              |       |   |                |        | FINISH CIRC - Hook to HATCO  |
|           | 1607 | 5          | 20           | 1     |   | 125            |        | START 20 BBL SALT Flush  |
|           | 1613 | 7          |              | 1     |   | 200            |        | START 375 sk HLC w/ 1/4" Floccle & tail NWJ 50 sk std. No Add.   |
|           | 1638 | 7          | 133 HD       | 1     |   | 200            |        | FINISH MIXING - Pump 1 BBL H2O Behind Slurry Release plug - cmt just to surface  |
|           | 1640 | 7          |              | 1     |   | 200            |        | START Disp   |
|           | 1649 | 7          | 53.5         | 1     |   | 1650           |        | Finish Disp - Full returns - circ 53.5 BBLs.   |
|           | 1653 |            |              |       |   |                |        | Release psi & hold   |
|           | 1653 |            |              |       |   |                |        | Job Complete   |

Thanks - Terry - Eldon - Jerry - Gary