

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

ORIGINAL

API NO. 15- 179-21,022 - 00-00

County Sheridan

SW - NE - NE - Sec. 16 Twp. 9S Rge. 27 X E

Operator: License # 9860

Name: Castle Resources, Inc.

Address Bank IV, Suite C

1200 E. 27th

City/State/Zip Hays, KS 67601

Purchaser: \_\_\_\_\_

Operator Contact Person: Jerry Green

Phone (913) -625-5155

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Jerry Green

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  S1OW  Temp. Abd.

Gas  ENHR  SIGW

Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: \_\_\_\_\_

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

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

Deepening  Re-perf.  Conv. to Inj/SWD

Plug Back  PBD

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

9/30/91 10/9/91 10-23-91

Spud Date Date Reached TD Completion Date

4290 Feet from (S)N (circle one) Line of Section

990 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, (SE) NW or SW (circle one)

Lease Name Popp Well # 1

Field Name Wildcat

Producing Formation \_\_\_\_\_

Elevation: Ground 2715' KB 2720'

Total Depth 4138' PBDT 4113'

Amount of Surface Pipe Set and Cemented at 258 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 4136

feet depth to Surface w/ 475 sx cmt.

Drilling Fluid Management Plan PLT 2 / 12-22-92  
(Data must be collected from the Reserve Pit)

Chloride content 7700 ppm Fluid volume 200 bbls

Dewatering method used Air Dry/Backfill

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 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 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 Tony P. Williams

Title Production Superintendent Date 12-7-92

Subscribed and sworn to before me this 7th day of December, 19 92.

Notary Public Chris Schumacher

Date Commission Expires 5-8-96

RECEIVED

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received DEC 8 1992  
C  Geologist Report Received 12-8-1992  
Distribution  
 KCC  SWD/REP  
 KGS  Plug  Other (Specify)



Operator Name Castle Resources, Inc.

Lease Name Popp

Well # 1

Sec. 16 Twp. 9S Rge. 27

East

West

County AMERSON Sheridan

**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<br>(Attach Additional Sheets.)               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Name                                    | Top                              | Datum                           |
| Cores Taken   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Anhydrite                               | 2311                             | - 45                            |
| Electric Log Run<br>(Submit Copy.)                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Heebner                                 | 3821                             | -1092                           |
| List All E.Logs Run: Dual Induction, Compensated<br>Neutron Density |   | Toronto                                 | 3848                             | -1119                           |
|   |   | Lansing                                 | 3856                             | -1127                           |
|   |   | Base Kansas City                        | 4100                             | -1371                           |
|   |   | RTD                                     | 4140                             | -1411                           |

**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"                    | 20#             | 258'          | 60/40 Poz      | 180          | 2% Gel, 3% CC  |
| Production        | 7 7/8"            | 4 1/2"                    | 9.5#            | 4136'         | 60/40 Poz      | 275          | 10% Gel, 5# Gil  |
|                   |                   |                           |                 |               | EA-2           | 200          | 1/8# Flo-cel/s<br>18% Salt, 5# Gil<br>1/2% CFR-3, 1/8# |

**ADDITIONAL CEMENTING/SQUEEZE RECORD**

| Purpose:                                | Depth |        | Type of Cement | #Sacks Used | Type and Percent Additives |
|---|-------|--------|----------------|-------------|----------------------------|
|   | Top   | Bottom |                |             |                            |
| <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  |              | Acid, Fracture, Shot, Cement Squeeze Record |       |
|----------------|---|--------------|---|-------|
|                | Specify Footage of Each Interval Perforated |              | (Amount and Kind of Material Used)          | Depth |
| 4              | 4060'                                       | 4064' K-zone | 250 gals. 15% MCA                           |       |
| 4              | 3994'                                       | 3996' H-zone | 250 gals. 15% MCA                           |       |
| 1              | 3976'                                       | G-zone       | 500 gals. 15% MCA                           |       |
| 1              | 3928'                                       | E-zone       | 250 gals. 15% MCA                           |       |
| 4              | 3857'                                       | 3860' A-zone |   |       |

**TUBING RECORD**

Size None Set At \_\_\_\_\_ Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First Resumed Production: SWD or Inj. \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  T & A Other (Explain) \_\_\_\_\_

| Estimated Production Per 24 Hours | Oil | Bbls. | Gas | Mcf | Water | Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----|-------|-----|-----|-------|-------|---------------|---------|
| 0                                 |     |       |     |     |       |       |               |         |

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

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Other (Specify) \_\_\_\_\_

Production Interval: \_\_\_\_\_

ORIGINAL

15-179-21022-00-00

Popp #1 D.S.T. Results

D.S.T. #1 3820'-3852'

30-30

Rec.: 5' Drilling Mud

IHP: 1928 psi

IF: 34-34 psi

ISIP: 34 psi

FHP: 1912 psi

D.S.T. #6 4007'-4067'

30-30-45-30

Rec.: 45' Slightly Oil Cut  
Mud

IHP: 2073 psi

IF: 58-58 psi

ISIP: 1110 psi

FF: 58-76 psi

FSIP: 1070 psi

FHP: 2051 psi

D.S.T. #2 3876'-3895'

45-45-45-45

Rec.: 1080' Water

IHP: 1923 psi

IF: 67-362 psi

ISIP: 1017 psi

FF: 320-530 psi

FSIP: 983 psi

FHP: 1905 psi

D.S.T. #3 3895'-3915'

30-60-45-30

Rec.: 60' Oil Cut Mud

5' Free Oil

IHP: 1956 psi

IF: 25-33 psi

ISIP: 1109 psi

FF: 25-50 psi

FSIP: 974 psi

FHP: 1928 psi

D.S.T. #4 3915'-3935'

30-30-30-30

Rec.: 15' Mud w/Specks of Oil

45' Gas in Pipe

IHP: 1938 psi

IF: 22-22 psi

ISIP: 1167 psi

FF: 22-22 psi

FSIP: 1151 psi

FHP: 1970 psi

D.S.T. #5 3970'-4022'

30-30-30-30

300' Muddy Oil

60' Heavy Oil Cut Water

120' Water

300' Gas in Pipe

IHP: 2042 psi

IF: 101-134 psi

ISIP: 1142 psi

FF: 176-227 psi

FSIP: 1125 psi

FHP: 2025

RECEIVED  
STATE CORPORATION COMMISSION

DEC 8 1992

CONSERVATION DIVISION  
WIKING

ORIGINAL



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

HALLIBURTON SERVICES

INVOICE

A Halliburton Company

15-179-21022-00-00

|             |            |
|-------------|------------|
| INVOICE NO. | DATE       |
| 163502      | 09/30/1991 |

|                           |                |                     |                       |               |                  |  |
|---------------------------|----------------|---------------------|-----------------------|---------------|------------------|--|
| WELL LEASE NO./PLANT NAME |                | WELL/PLANT LOCATION |                       | STATE         | WELL/PLANT OWNER |  |
| 1                         |                | SHERIDAN            |                       | KS            | CASTLE           |  |
| SERVICE LOCATION          |                | CONTRACTOR          | JOB PURPOSE           |               | TICKET DATE      |  |
| LIN                       |                | EMPHASIS DRLG       | CEMENT SURFACE CASING |               | 09/30/1991       |  |
| NO.                       | CUSTOMER AGENT | VENDOR NO.          | CUSTOMER P.O. NUMBER  | SHIPPED VIA   | FILE NO.         |  |
| 71                        | JOHN COLLINS   |                     |                       | COMPANY TRUCK | 23053            |  |

DIRECT CORRESPONDENCE TO: FIRST OKLAHOMA TOWER 210 WEST PARK AVENUE SUITE 2050 OKLAHOMA CITY, OK 73102-5601

CASTLE RESOURCES BANK IV, SUITE C 1200 E. 27 HAYS, KS 67601

| LINE REF. NO.                          | DESCRIPTION                      | QUANTITY | U/M | UNIT PRICE | AMOUNT     |
|--|----------------------------------|----------|-----|------------|------------|
| ING AREA - 117                         | MID CONTINENT MILEAGE            | 50       | MI  | 2.60       | 130.00     |
| -016                                   | CEMENTING CASING                 | 258      | FT  | 475.00     | 475.00     |
| -503                                   | CMTG PLUG LA-11, CP-1, CP-3, TOP | 8 5/8    | IN  | 90.00      | 90.00      |
| -308                                   | STANDARD CEMENT                  | 102      | SK  | 6.75       | 688.50 *   |
| -105                                   | POZMIX A                         | 68       | SK  | 3.90       | 265.20 *   |
| -121                                   | HALLIBURTON-GEL 2%               | 3        | SK  | .00        | N/C *      |
| -406                                   | ANHYDROUS CALCIUM CHLORIDE       | 5        | SK  | 26.25      | 131.25 *   |
| -207                                   | BULK SERVICE CHARGE              | 180      | CFT | 1.15       | 207.00 *   |
| -306                                   | MILEAGE CMTG MAT DEL OR RETURN   | 383.0    | TMI | .80        | 306.40 *   |
| INVOICE SUBTOTAL                       |                                  |          |     |            | 2,293.35   |
| DISCOUNT-(BID)                         |                                  |          |     |            | 458.67-    |
| INVOICE BID AMOUNT                     |                                  |          |     |            | 1,834.68   |
| *-KANSAS STATE SALES TAX               |                                  |          |     |            | 54.35      |
| *-DECATUR COUNTY SALES TAX             |                                  |          |     |            | 12.79      |
| INVOICE TOTAL - PLEASE PAY THIS AMOUNT |                                  |          |     |            | \$1,901.82 |

RECEIVED STATE CORPORATION COMMISSION DEC 18 1992 Pd 11/27/91 #1593

TERMS INVOICES 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 AN ATTORNEY 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.

ORIGINAL



TICKET NO. 163531-5

FORM 1906 R-11

NDH

15-179-21022-00-00

|   |                     |                                     |   |                          |   |
|---|---------------------|-------------------------------------|---|--------------------------|---|
| WELL NO. - FARM OR LEASE NAME<br>#1 Popp      |                     | COUNTY<br>Sheridan                  | STATE<br>KS.  | CITY / OFFSHORE LOCATION | DATE<br>10-9-91   |
| CHARGE TO<br>Castle Resources Inc.            |                     | OWNER<br>Same                       | TICKET TYPE (CHECK ONE)<br>SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/> |                          | NITROGEN JOB<br>YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
| ADDRESS                                       |                     | CONTRACTOR<br>Emphasis Drilling Co. | LOCATION<br>1 Oberlin, KS   |                          | CODE<br>25529   |
| CITY, STATE, ZIP                              |                     | SHIPPED VIA<br>0196<br>3579-3846    | FREIGHT CHARGES<br><input type="checkbox"/> PPD <input type="checkbox"/> COLLECT                      |                          | LOCATION<br>2   |
| WELL TYPE<br>01                               | WELL CATEGORY<br>01 | WELL PERMIT NO.                     | DELIVERED TO<br>SE Howe, Ks.  |                          | LOCATION<br>3   |
| TYPE AND PURPOSE OF JOB<br>35 Cmt. Prod. Csg. |                     | B-977864                            | ORDER NO.   |                          | REFERRAL LOCATION   |

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices 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 an attorney 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. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

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 FOR A PARTICULAR PURPOSE 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, product liability, 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.

| PRICE REFERENCE | SECONDARY REF OR PART NO. | LOC | ACCOUNT | DESCRIPTION        | UNITS 1 |      | UNITS 2 |      | UNIT PRICE | AMOUNT |    |
|-----------------|---------------------------|-----|---------|--------------------|---------|------|---------|------|------------|--------|----|
|                 |                           |     |         |                    | QTY     | MEAS | QTY     | MEAS |            |        |    |
| 000-117         |                           | 1   |         | MILEAGE (3579)     | 50      | mi.  |         |      | 2.60       | 130    | 00 |
| 001-016         |                           | 1   |         | Pump Charge        | 4139    | FT.  |         |      | 1300.00    | 1300   | 00 |
| 030-016         |                           | 1   |         | Top Plug           | 1       | ea.  | 4 1/2   | IN.  | 35.00      | 35     | 00 |
| 018-317         |                           | 1   |         | Superflush         | 12      | SKS. |         |      | 87.00      | 1044   | 00 |
| 12 A            | 825.201                   | 1   |         | Regular Guide Shoe | 1       | ea.  | 4 1/2   | IN.  | 89.00      | 89     | 00 |
| 24 A            | 815.19101                 | 1   |         | Insert Float Valve | 1       | ea.  | 4 1/2   | IN.  | 73.00      | 73     | 00 |
| 27              | 815.19111                 | 1   |         | Auto-Fill Assembly | 1       | ea.  | 1.0     | IN.  | 27.50      | 27     | 50 |
| 40              | 807.93004                 | 1   |         | S-4 Centralizer    | 7       | ea.  | 4 1/2   | IN.  | 43.00      | 301    | 00 |
| 320             | 800.8881                  | 1   |         | Cement Baskets     | 2       | ea.  | 4 1/2   | IN.  | 85.00      | 170    | 00 |
| 60              | 807.0007                  | 1   |         | Poto-wand Cleaners | 11      | ea.  | 55      | FT.  | 22.00      | 242    | 00 |
| 119-100         |                           | 1   |         | Bravo Material     | 1       | ea.  |         |      | 2.19       | 21     | 09 |
| 66              | 807.64021                 | 1   |         | Fast-Grip Clamp    | 16      | ea.  | 4 1/2   | IN.  | 9.60       | 153    | 60 |

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-977864

RECEIVED  
STATE CORPORATION  
10/8/91

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X CUSTOMER OR HIS AGENT (PLEASE PRINT)  
Larry Whitson

X CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

*Eldon Reynolds*  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL 16896.29

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

# BULK MATERIALS DELIVERY ORIGINAL AND TICKET CONTINUATION

FOR INVOICE AND TICKET NO. 163531-5

15-179-21022-00-00



|                                      |                    |                                     |   |                                   |
|--------------------------------------|--------------------|-------------------------------------|---|-----------------------------------|
| DATE<br><b>10-9-91</b>               | CUSTOMER ORDER NO. | WELL NO. AND FARM<br><b>Popp #1</b> | COUNTY<br><b>Sheridan</b>                         | STATE<br><b>Ks</b>                |
| CHARGE TO<br><b>Castle Resources</b> |                    | OWNER<br><b>Castle</b>              | CONTRACTOR<br><b>Emphasis</b> No. <b>B 977864</b> |                                   |
| MAILING ADDRESS                      |                    | DELIVERED FROM<br><b>Oberlin</b>    | LOCATION CODE<br><b>25529</b>                     | PREPARED BY<br><b>ULK</b>         |
| CITY & STATE                         |                    | DELIVERED TO<br><b>SE HONIE, KS</b> | TRUCK NO.<br><b>3846-0196</b>                     | RECEIVED BY<br><i>[Signature]</i> |

| PRICE REFERENCE     | SECONDARY REF. OR PART NO. | CODE                     |   | DESCRIPTION                          | UNITS 1             |       | UNITS 2         |          | UNIT PRICE       | AMOUNT |         |  |
|---------------------|----------------------------|--------------------------|---|--------------------------------------|---------------------|-------|-----------------|----------|------------------|--------|---------|--|
|                     |                            | L                        | D |                                      | QTY.                | MEAS. | QTY.            | MEAS.    |                  |        |         |  |
| 504-308             |                            |                          |   | STANDARD Cement                      | 165                 | SK    |                 |          | 6.75             | 1113   | 75      |  |
| 509-968             |                            |                          |   | SALT GRANULATED                      | 1287                | LB    |                 |          | .10              | 128    | 70      |  |
| 508-291             |                            |                          |   | GILSONITE                            | 825                 | LB    |                 |          | .35              | 288    | 75      |  |
| 508-127             |                            |                          |   | CAI SEAL                             | 8                   | SK    |                 |          | 19.70            | 157    | 60      |  |
| 507-153             |                            |                          |   | CFR-3                                | 78                  | LB    |                 |          | 4.10             | 319    | 80      |  |
| 507-210             |                            |                          |   | FLOCELE                              | 21                  | LB    |                 |          | 1.30             | 27     | 30      |  |
| 504-308             |                            |                          |   | STANDARD Cement                      | 35                  | SK    |                 |          | 6.75             | 236    | 25      |  |
| 507-277             |                            |                          |   | HALLIBURTON Gel Added 4%             | 1                   | SK    |                 |          |                  | 14     | 75      |  |
| 508-127             |                            |                          |   | CAI SEAL                             | 2                   | SK    |                 |          | 19.70            | 39     | 40      |  |
| 509-406             |                            |                          |   | CALCIUM Chloride                     | 1                   | SK    |                 |          |                  | 26     | 25      |  |
| 504-308             |                            |                          |   | STANDARD Cement                      | 179                 | SK    |                 |          | 6.75             | 1208   | 25      |  |
| 506-105             |                            |                          |   | POZMIX                               | 96                  | SK    |                 |          | 3.90             | 374    | 40      |  |
| 506-121             |                            |                          |   | HALLIBURTON Gel Added 2% (5)         |                     |       |                 |          |                  | NC     |         |  |
| 507-277             |                            |                          |   | HALLIBURTON Gel Mixed 8%             | 19                  | SK    |                 |          | 14.75            | 280    | 25      |  |
| 507-285             |                            |                          |   | ECONOLITE                            | 478                 | LB    |                 |          | .90              | 430    | 20      |  |
| 508-291             |                            |                          |   | GILSONITE                            | 1375                | LB    |                 |          | .35              | 481    | 25      |  |
| 507-210             |                            |                          |   | FLOCELE                              | 35                  | LB    |                 |          | 1.30             | 45     | 50      |  |
| 509-554             |                            |                          |   | Gel (ONside)                         | 2                   | SK    |                 |          | 14.75            | 29     | 50      |  |
|                     |                            |                          |   | Returned Mileage Charge              | TOTAL WEIGHT        |       | LOADED MILES    |          | TON MILES        |        |         |  |
|                     |                            |                          |   | SERVICE CHARGE ON MATERIALS RETURNED |                     |       |                 | CU. FEET |                  |        |         |  |
| 500-207             |                            |                          |   | SERVICE CHARGE                       |                     |       |                 | CU. FEET |                  | 597    | 1.15    |  |
| 500-306             |                            |                          |   | Mileage Charge                       | 50,392 TOTAL WEIGHT |       | 50 LOADED MILES |          | 1259.8 TON MILES |        | .80     |  |
| No. <b>B 977864</b> |                            | CARRY FORWARD TO INVOICE |   |                                      |                     |       |                 |          | SUB-TOTAL        |        | 6896 29 |  |

CUSTOMER



HALLIBURTON SERVICES  
Duncan, Oklahoma 73533

A Division of Halliburton Company

WORK ORDER CONTRACT  
AND PRE-TREATMENT DATA

ORIGINAL

15-179-21022-00-00

ATTACH TO  
INVOICE & TICKET NO. 163531-5

DISTRICT Hays, Ks.

DATE 10-9-91

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Castle Resources Inc. (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #1 LEASE Popp SEC. 16 TWP. 9S RANGE 27W

COUNTY Sheridan STATE Ks. OWNED BY Castle Resources Inc.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION TYPE \_\_\_\_\_

FORMATION THICKNESS FROM \_\_\_\_\_ TO \_\_\_\_\_

FORMATION DEPTH 4140' MUD WEIGHT \_\_\_\_\_

FORMATION HOLE 7 7/8"

FORMATION PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

FORMATION PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

|              | NEW USED   | WEIGHT     | SIZE         | FROM      | TO           | MAX. ALLOW. P.S.I. |
|--------------|------------|------------|--------------|-----------|--------------|--------------------|
| CASING       | <u>N-U</u> | <u>9.5</u> | <u>4 1/2</u> | <u>KB</u> | <u>4139'</u> |                    |
| LINER        |            |            |              |           |              |                    |
| TUBING       |            |            |              |           |              |                    |
| OPEN HOLE    |            |            |              |           |              | SHOTS/FT.          |
| PERFORATIONS |            |            |              |           |              |                    |
| PERFORATIONS |            |            |              |           |              |                    |
| PERFORATIONS |            |            |              |           |              |                    |

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

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_

Element 4 1/2" Prod. Csg w/ 275 sks. HDL w/ 5" Gilsowite 4 1/8" Floccle/sk -  
15 bbl. mud spacer - 50 gal. Super Flush - 35 sks. Thixotropic - 4% Gal - 5" Cal-seal - 29 C.C.  
1.5 sks. EA-2 - 18% Salt - 5" Gilsowite - .5 CFR-3 - 1/8" Floccle  
As directed

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

In 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 for:

1. 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.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. 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 operators, 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 Tom Williams CUSTOMER

DATE 10-9-91

TIME 0500 (A.M.) P.M.

certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

RECEIVED  
 CORPORATION COMMISSION  
 DEC 18 1991  
 DIVISION

HALLIBURTON DIVISION Oklahoma City, OK.  
 HALLIBURTON LOCATION Oberlin, Ks.

WELL DATA  
 SEC. 16 TWP. 9S RNG. 27W COUNTY. Sheridan STATE Ks.  
 15-179-21022-00-00

WELL NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
 WELL THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 IT PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 ESTIMATION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
 SET AT \_\_\_\_\_  
 PRESSURE \_\_\_\_\_  
 TOTAL DEPTH 4140

| CASING       | NEW USED | WEIGHT | SIZE   | FROM | TO    | MAXIMUM PSI ALLOWABLE |
|--------------|----------|--------|--------|------|-------|-----------------------|
| N-4          |          | 9.5    | 4 1/2" | KB   | 4139' |                       |
| LINER        |          |        |        |      |       |                       |
| TUBING       |          |        |        |      |       |                       |
| OPEN HOLE    |          |        |        |      |       |                       |
| PERFORATIONS |          |        |        |      |       |                       |
| PERFORATIONS |          |        |        |      |       |                       |
| PERFORATIONS |          |        |        |      |       |                       |

TOOLS AND ACCESSORIES

| TYPE AND SIZE       | QTY.   | MAKE  |
|---------------------|--------|-------|
| Insert Float 4 1/2" | 1 ea.  | HALCO |
| Auto-Fill 10"       | 1 ea.  |       |
| REG 4 1/2"          | 1 ea.  |       |
| VALIZERS S-4 4 1/2" | 7 ea.  |       |
| Cmt. Bkt. 4 1/2"    | 2 ea.  |       |
| LUG S-W 4 1/2"      | 1 ea.  |       |
| Roto-wall Cleaners  | 55 Ft. |       |
| Fas-Grip 4 1/2"     | 11 ea. |       |
| Banding Material    | 11 ea. |       |

JOB DATA

| CALLER OUT   | ON LOCATION  | JOB STARTED  | JOB COMPLETED |
|--------------|--------------|--------------|---------------|
| DATE 10-9-91 | DATE 10-9-91 | DATE 10-9-91 | DATE 10-9-91  |
| TIME 0200    | TIME 0500    | TIME 0800    | TIME 1210     |

PERSONNEL AND SERVICE UNITS

| NAME        | UNIT NO. & TYPE | LOCATION     |
|-------------|-----------------|--------------|
| E. Reynolds | RMAT-400        | Oberlin, Ks. |
| H. Berry    | 3579            | Oberlin, Ks. |
|             | 8m              |              |
| M. Jones    | 3846            | Oberlin, Ks. |
|             | 8m              |              |
| B. Sauber   | 0196            | Oberlin, Ks. |

MATERIALS

T. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL-API  
 L. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL-API  
 P. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 P. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 D. TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 D. TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 D. TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 FACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.  
 AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.  
 MID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 LING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 C. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 MAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 DCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 RFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 MER 500gal. Superflush

DEPARTMENT Cementing

DESCRIPTION OF JOB Cement 4 1/2" Csg. as directed

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X *Troy Williams*

HALLIBURTON OPERATOR *Eldon Reynolds* COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

| STAGE | NUMBER OF SACKS | CEMENT      | BRAND | BULK SACKED | ADDITIVES  | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-------|-----------------|-------------|-------|-------------|--|------------------|-----------------|
|       | 275             | HDL         |       |             | 5% Gilsomite - 1/8" Floccle                      | 3.70             | 10.7            |
|       | 35              | Thixotropic |       |             | 4% Gel - 5% Cal-Seal - 2% C.C.                   | 1.70             | 12.3            |
|       | 165             | FA-2        |       |             | 18% Salt - 5% Gilsomite - 5% CR-3 - 1/8" Floccle | 1.46             | 15.2            |

PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 23.10 REASON Shoe Joint

SUMMARY PRESLUSH: BBL-GAL 12.0  
 LOAD & BKDN: BBL-GAL \_\_\_\_\_  
 TREATMENT: BBL-GAL \_\_\_\_\_  
 CEMENT SLURRY: BBL-GAL 181.2 - 10.6 - 42.9  
 TOTAL VOLUME: BBL-GAL \_\_\_\_\_

VOLUMES Superflush  
 TYPE 450  
 PAD: BBL-GAL 460.7  
 DISPL: BBL-GAL 660.7

REMARKS See Job log & Chart  
 Cement did Circ (54 bbl.)  
 Thank you

CUSTOMER Castle Resources Inc  
 LEASE Pop  
 WELL NO. #  
 JOB TYPE 4 1/2" Prod Csg  
 RECEIVED  
 STATE CORPORATION COMMISSION  
 DEB  
 A 1991-9-91  
 MISSOURI  
 KANSAS



**JOB LOG**

WELL NO. #1 LEASE Topp TICKET NO. 163531-5  
 CUSTOMER Castle Resources Inc. PAGE NO. #1 of 1  
 JOB TYPE Cement 4 1/2" Prod. Csg. DATE 10-9-91

**ORIGINAL**

FORM 2013 R-2

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS                           |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
|           |      |            |                    | T     | C | TUBING         | CASING |  |
|           |      |            |                    |       |   |                |        | 15-179-21022-00-00   |
|           | 0200 |            |                    |       |   |                |        | Called out - Job ready @ 0.500 hrs.                              |
|           | 0500 |            |                    |       |   |                |        | ON LOC. - Reg. @ 0.500 - Rig laying down DP                      |
|           | 0703 |            |                    |       |   |                |        | DP & Kelly layed down. Put scratchers on                         |
|           | 0800 |            |                    |       |   |                |        | Start 4 1/2" Csg. - Run Regular Guide Shoes                      |
|           |      |            |                    |       |   |                |        | Insert w/ Auto Fill - Cmt. on #1-4-5-7-10                        |
|           |      |            |                    |       |   |                |        | 574117 - Cmt. BSKL on #11 4" 58-                                 |
|           |      |            |                    |       |   |                |        | Robo-wall Cleaners - 10ft on JT #3 - 8ft down                    |
|           |      |            |                    |       |   |                |        | 15ft on JT #5 - 10ft down - 10ft on JT #7 - 10ft down            |
|           |      |            |                    |       |   |                |        | 10ft on JT #8 - 8ft down - 10ft on JT #9 - 6ft down              |
|           | 0947 |            |                    |       |   |                |        | Csg. @ 4139' - Hook up to Circ.                                  |
|           | 1000 |            |                    |       |   |                |        | Rig Start Circulating & Rotating Csg.                            |
|           | 1019 |            |                    |       |   |                |        | Hook up to PT  |
|           | 1022 | 3.0        | 6.0                |       |   |                | 200    | Start 6 bbl. Gelled water  |
|           | 1025 | 4.5        | 181.2              |       |   |                | 200    | Start mixing 275 HDL-5" Gilsrite-1/8" Floccle                    |
|           | 1107 | 4.0        | 45.0               |       |   |                | 100    | Start 45 bbl. drilling mud                                       |
|           | 1118 | 4.0        | 2.0                |       |   |                | 100    | Start 2 bbl. water spacer  |
|           | 1119 | 5.0        | 12.0               |       |   |                | 50     | Start 500 gal. Super Flush                                       |
|           | 1121 | 3.5        | 3.0                |       |   |                | 50     | Start 3 bbl. water - Stop Rotating Csg.                          |
|           | 1123 | 3.5        | 10.5               |       |   |                | 150    | Start mix 35 SKS Thixotropic - 426 gal - 5" Gil - 500 - 2% CC    |
|           | 1126 | 4.0        | 42.9               |       |   |                | 200    | Start mixing 165 SKS FA-2 - 158 gal - 5" Gil - 500 - 3" 1/8" Flo |
|           | 1138 | 4.0        |                    |       |   |                | 300    | Finish mixing Cement   |
|           |      |            |                    |       |   |                |        | Unshut Pump & lines - Release 5-w Top Plug                       |
|           | 1140 | 6.0        | 66.7               |       |   |                | 100    | Start disp.  |
|           | 1142 | 6.0        |                    |       |   |                | 150    | 12 bbl. disp. w- Cement Circulating                              |
|           | 1145 | 6.0        |                    |       |   |                | 400    | 30 bbl. " " - Press. increasing                                  |
|           | 1152 |            |                    |       |   |                | 1700   | Plugdown - Holding 1700" - Final Circ.<br>Press. = 1150"         |
|           | 1155 |            |                    |       |   |                | 0      | Release Press - Insert holding                                   |
|           | 1210 |            |                    |       |   |                |        | Job Completed  |
|           |      |            |                    |       |   |                |        | Circulated 54 bbl Cement to 1700"                                |

THIS STATE RECEIVED  
 Eldon - Harold  
 Mike Bill  
 1999