FORM MUST BE TYPED

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

Operator: License # 5038
Name: Sovereign Energy LLC/Robinson Oil Co.
Address: 300 W. Douglas, Suite 420
City/State/Zip: Wichita, KS 67202
Purchaser:
Operator Contact Person: Thomas S. Metzger
Phone: (303) 297-0347
Contractor: Name: Abercrombie Drilling, Inc.
License: 30684
Wellsite Geologist: Ben Lauder
Designate Type of Completion
 X New Well _______ Re-Entry _______ Workover
 Oil _______ SWD _______ SIW _______ Temp. Abd.
 Gas _______ ENHR _______ SIGW _______ 
 X Dry _______ Other (Core, WSW, Expd., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:
Operator:
Well Name:
Comp. Date _______ Old Total Depth _______
_______ Deepening _______ Re-perf. _______ Conv. to Inj/SIW
_______ Plug Back _______ PBTD _______ 
_______ Commingled _______ Docket No. _______
_______ Dual Completion _______ Docket No. _______
_______ Other (SWD or Inj?) _______ Docket No. _______
Spud Date: 03-14-97 Date Reached TD: 03-19-97 Completion Date: 03-20-97

API No. 15- 153-20,813-00-00
County: Rawlins _____ plugged 3/20/97
Sec. 25 _______ NW _______ Rge. 32 _______ X _______
_______ Feet from S/W (circle one) Line of Section
_______ Feet from E/N (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW, or SW (circle one)
Lease Name: Wahrman _______ Well #: 22-25
Field Name: Beaver Creek
Producing Formation
Elevation: Ground 2896' _______ KB 2501'
Total Depth: 4125' _______ PBTD _______
Amount of Surface Pipe Set and Cemented at: 306.50' _______ Feet
Multiple Stage Cementing Collar Used? _______ Yes _______ No
If yes, show depth set _______ Feet
If Alternate II completion, cement circulated from _______
feet depth to _______ W/ _______ ex cmt.

Drilling Fluid Management Plan: DATA-5-26-98 U/C
(Data must be collected from the Reserve Pit)
Chloride content: 1,000 ppm Fluid volume: 900 bbls
Dewatering method used: Evaporazion
Location of fluid disposal if hauling offsite:
Operator Name
License No.
Lease Name

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 82-3-150, 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: Thomas S. Metzger
Title: Operator Agent
Subscribed and sworn to before me this 19 98.
Notary Public
Date Commission Expires: 12/2/2001

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
KCC SMD/Rep NGPA Plug
KGS Other
(Specify)
Form ACO-1 (7-91)
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 (Attach Additional Sheets.)
- Yes ☑ No ☐

Samples Sent to Geological Survey
- Yes ☑ No ☐

Cores Taken
- Yes ☑ No ☐

Electric Log Run (Submit Copy.)
- Yes ☑ No ☐

List All El. Logs Run:
- Dual Ind. Log
- Neutron (Density Porosity)
- R.A. Guard

---

**Casing Record**

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole Drilled</th>
<th>Size Casing Set (In O.D.)</th>
<th>Weight Lbs./Ft.</th>
<th>Setting Depth</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>12 1/4&quot;</td>
<td>8 5/8&quot;</td>
<td>20#</td>
<td>306.50'</td>
<td>60/40 Poz.</td>
<td>200</td>
<td>2% gal</td>
</tr>
</tbody>
</table>

---

**Additional Cementing/Squeeze Record**

<table>
<thead>
<tr>
<th>Purpose: Perforate</th>
<th>Depth Top</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protect Casing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Back TD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Off Zone</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Perforation Record** - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated

**Acid, Fracture, Shot, Cement Squeeze Record** (Amount and Kind of Material Used) Depth

---

**Tubing Record**

<table>
<thead>
<tr>
<th>Size</th>
<th>Set At</th>
<th>Packer At</th>
<th>Liner Run</th>
<th>Yes ☑ No ☐</th>
</tr>
</thead>
</table>

**Date of First, Resumed Production, S&D or Inj.**

**Producing Method**
- Gas Lift ☐
- Other (Explain)

**Estimated Production Per 24 Hours**

<table>
<thead>
<tr>
<th>Oil Bbls.</th>
<th>Gas Mcf</th>
<th>Water Bbls.</th>
<th>Gas-Oil Ratio</th>
<th>Gravity</th>
</tr>
</thead>
</table>

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

**Method of Completion**
- Production Interval
- Open Hole ☐
- Perc. ☐
- Other (Specify)
- Commingled ☐

**Other (Specify)**

**Producing Interval**
Lightning Wireline, Inc.
P.O. Box 1531
Loveland, Colorado 80539
Tel: (970) 669-8059 Fax: (970) 669-4077

B.H.P. TEST REPORT

Company : Sovereign Energy

Well Number : Linnebur 6-23
Test date : March 2, 1998
Lease : Linnebur
Field : Barrel
County : Weld
State : Colorado
Location : NESW 6-3S-60W
Formation : D-sand
Legal Desc. : NESW 6-3S-60W
Elev. KB at : 4967'
Elev. GL at : 4957'
Total depth @ 6616'

Tubing size : 2 3/8
Packr set at : n/a
Fluid level @ 4531'
Casing size : 4.5
Perforations : 6471'-6510'
DW Tbg press : 342 psig
DW Csg press : n/a
Instrument #: MicroSmart 192
Tested by : LG
Calculated by : ASP
Gauge set at : 6491'
B.H. Temp. F : 193

Data File : LINN623A.BHP

KANSAS CORPORATION COMMISSION
MAR 04 1998
CONSERVATION DIVISION
WICHITA, KS
To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

Anthony Melen

PRINTED NAME
REMIT TO: P.O. BOX 31  
RUSSELL, KANSAS 67665

ALLIED CEMENTING CO., INC.  
5501

ORIGINAl  
SERVICE POINT:  

DATE: 3-19-97  
SEC: 25  
TWP: 15  
RANGE: 32  
CALLED OUT: 11:00 'M'  
ON LOCATION: 11:00 'M'  
JOB START: 11:00 'M'  
JOB FINISH: 1:30 'P.M.

LEASE #  
WELL #  
LOCATION: Heidenon 3W-1N-36-44-4th Kandis  
Kan.

OLD OR NEW (Circle one)  

CONTRACTOR: Abebeckeine R.T.D.  
OWNER: Sovereign Energy  
TYPE OF JOB:  
HOLE SIZE: 412'  
T.D. 412'  
CASING SIZE: DEPTH  
TUBING SIZE: DEPTH  
DRILL PIPE: DEPTH  
TOOL: DEPTH  
PRES. MAX: MINIMUM  
MEAS. LINE: SHOE JOINT  
CEMENT LEFT IN CSG.

PERFS.  

EQUIPMENT  
PUMP TRUCK  
# 151  
CEMENTER: Walt  
HELPER: Dean  
BULK TRUCK  
# 315  
DRIVER: Jeff  
BULK TRUCK  
#  
DRIVER  

REMARKS:  

SERVICE:  

DEPTH OF JOB: 2700'  
PUMP TRUCK CHARGE  
EXTRA FOOTAGE  
MILEAGE  
PLUG: 8 1/2 D.I.  

TOTAL  

FLOAT EQUIPMENT  

TAX  
TOTAL CHARGE  
DISCOUNT  
IF PAID IN 30 DAYS

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE:  

To Allied Cementing Co., Inc.
**TRILOBITE TESTING L.L.C.**

P.O. Box 362 • Hays, Kansas 67601

**Test Ticket**

<table>
<thead>
<tr>
<th>Well Name &amp; No.</th>
<th>Waalman #22-25</th>
<th>Test No.</th>
<th>1</th>
<th>Date</th>
<th>3-18-97</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company</td>
<td>Sovereign Energy LLC/Robinson Oil Co.</td>
<td>Zone Tested</td>
<td>G</td>
<td>LC</td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td>300 W. Douglas, 3520, Wichita, KS.</td>
<td>Elevation</td>
<td>2901</td>
<td>KB</td>
<td>2896 GL</td>
</tr>
<tr>
<td>Co. Rep / Geo.</td>
<td>Ben Landaes</td>
<td>Cont. Aber #8</td>
<td>Est. Ft. of Pay</td>
<td></td>
<td>Por. %</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 35</td>
<td>Twp. 1</td>
<td>Rge. 32</td>
<td>Co. Rawlins</td>
<td>State KS</td>
</tr>
<tr>
<td>No. of Copies</td>
<td>Distribution Sheet (Y, N)</td>
<td>Turnkey (Y, N)</td>
<td>Evaluation (Y, N)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interval Tested</th>
<th>3913 - 3961</th>
<th>Initial Str Wt. Lbs.</th>
<th>54,000</th>
<th>Unseated Str Wt. Lbs.</th>
<th>54,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor Length</td>
<td>48</td>
<td>Wt. Set Lbs.</td>
<td>30,000</td>
<td>Wt. Pulled Loose/Lbs.</td>
<td>30,000</td>
</tr>
<tr>
<td>Top Packer Depth</td>
<td>3908</td>
<td>Tool Weight</td>
<td>10:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottom Packer Depth</td>
<td>3913</td>
<td>Hole Size — 7 7/8&quot;</td>
<td>Rubber Size — 6 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td>3961</td>
<td>Wt./Pipe Run</td>
<td>461</td>
<td>Drill Collar Run</td>
<td></td>
</tr>
<tr>
<td>Mud Wt.</td>
<td>9.1</td>
<td>LCM</td>
<td>95</td>
<td>WL 9.6</td>
<td></td>
</tr>
<tr>
<td>Blow Description</td>
<td>E.F. Weak, steady surface blow</td>
<td>REACHED</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Slid Tool 6' to bottom**

KANSAS CORPORATION COMMISSION

**MAR 04 1998**

<table>
<thead>
<tr>
<th>Recovery — Total Feet</th>
<th>15</th>
<th>GIP</th>
<th>Ft. in WP</th>
<th>Ft. in DP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rec.</td>
<td>15</td>
<td>Feet Of D.M.</td>
<td>% gas</td>
<td>% oil</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BHT</th>
<th>110</th>
<th>°F Gravity</th>
<th>°API D @</th>
<th>°F Corrected Gravity</th>
<th>°API</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>RW</th>
<th>°F Chlorides</th>
<th>ppm Recovery</th>
<th>Chlorides ppm System</th>
<th>500 ppm System</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A)</td>
<td>Initial Hydrostatic Mud</td>
<td>1906</td>
<td>PSI Recorder No. 1325</td>
<td>T-Started 08:45</td>
</tr>
<tr>
<td>(B)</td>
<td>First Initial Flow Pressure</td>
<td>29</td>
<td>PSI (depth) 3920</td>
<td>T-Open 10:13</td>
</tr>
<tr>
<td>(C)</td>
<td>First Final Flow Pressure</td>
<td>9</td>
<td>PSI Recorder No. 19249</td>
<td>T-Pulled 12:43</td>
</tr>
<tr>
<td>(D)</td>
<td>Initial Shut-in Pressure</td>
<td>1046</td>
<td>PSI (depth) 3958</td>
<td>T-Out 14:50</td>
</tr>
<tr>
<td>(E)</td>
<td>Second Initial Flow Pressure</td>
<td>9</td>
<td>PSI Recorder No.</td>
<td></td>
</tr>
<tr>
<td>(F)</td>
<td>Second Final Flow Pressure</td>
<td>9</td>
<td>PSI (depth)</td>
<td></td>
</tr>
<tr>
<td>(G)</td>
<td>Final Shut-in Pressure</td>
<td>1036</td>
<td>PSI Initial Opening</td>
<td>Test</td>
</tr>
<tr>
<td>(H)</td>
<td>Final Hydrostatic Mud</td>
<td>1956</td>
<td>PSI Initial Shut-in</td>
<td>45</td>
</tr>
</tbody>
</table>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINIONS CONCERNING THE RESULTS OF ANY TEST, TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT THE COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative

**TOTAL PRICE $**
# Test Ticket

**Well Name & No.** Wahrman #22-15  
**Test No.** 2  
**Date** 7-19-97  
**Company** Sovereign Energy, LLC/Robinson Oil Co.  
**Zone Tested** 'J'  
**Elevation** 2901 KB, 2896 GL  
**Co. Rep / Geo.** Ben Landes  
**Cont.** Aber #8  
**Est. Ft. of Pay** Por.  
**Location:** Sec. 25  
**Twp.** 1  
**Rge.** 32  
**Co.** Rawlins  
**State** KS  
**No. of Copies** Distribution Sheet (Y, N)  
**Turnkey (Y, N) Evaluation (Y, N)**

<table>
<thead>
<tr>
<th>Interval Tested</th>
<th>Distribution Sheet (Y, N)</th>
<th>Turnkey (Y, N) Evaluation (Y, N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4004 - 4050</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Anchor Length** 46  
**Top Packer Depth** 4999  
**Bottom Packer Depth** 4004  
**Total Depth** 4050  
**Mud Wt.** 9.1 LCM  
**Vis.** 45  
**WL** 9.6

**Blow Description** I.F. Weak - Died in 15 min.  
**Received** MAR 04 1998  
**No blow**

**Recovery - Total Feet** 5  
**GIP**  
**Ft. in DP**  
**Conservation Division**  
**Wt.** %gas  
**%oil**  
**%water**  
**%mud**

**BHT** 107  
**°F Gravity**  
**°F Chlorides**  
**API D 0**  
**°F Corrected Gravity**  
**API**

<table>
<thead>
<tr>
<th>RW</th>
<th>°F Chlorides</th>
<th>ppm Recovery</th>
<th>Chlorides</th>
<th>500 ppm System</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A) Initial Hydrostatic Mud</td>
<td>20.36</td>
<td>1983 PSI</td>
<td>Recorder No. 2346</td>
<td>T-Started 00:00</td>
</tr>
<tr>
<td>(B) First Initial Flow Pressure</td>
<td>29.23</td>
<td>PSI (depth)</td>
<td>4041</td>
<td>T-Open 00:10</td>
</tr>
<tr>
<td>(C) First Final Flow Pressure</td>
<td>49.24</td>
<td>PSI</td>
<td>Recorder No. 13754</td>
<td>T-Pulled 00:10</td>
</tr>
<tr>
<td>(D) Initial Shut-in Pressure</td>
<td>88.78</td>
<td>PSI (depth)</td>
<td>4047</td>
<td>T-Out 00:00</td>
</tr>
<tr>
<td>(E) Second Initial Flow Pressure</td>
<td>39.24</td>
<td>PSI</td>
<td>Recorder No.</td>
<td></td>
</tr>
<tr>
<td>(F) Second Final Flow Pressure</td>
<td>39.25</td>
<td>PSI (depth)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(G) Final Shut-in Pressure</td>
<td>39.43</td>
<td>PSI</td>
<td>Initial Opening</td>
<td>Test</td>
</tr>
<tr>
<td>(H) Final Hydrostatic Mud</td>
<td>1946 1985 PSI</td>
<td>Initial Shut-in</td>
<td>60</td>
<td>Jars</td>
</tr>
</tbody>
</table>

**AK-1 Alpine**  
**Final Flow** 60  
**Final Shut-in** 60

**TRILOBITE TESTING LLC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST, TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.**

**Approved By**  
**Our Representative**

---

**TOTAL PRICE $**
Shut-in Pressure Gradient

Company: Sovereign Energy
Well Number: Linnebur 6-23  Test date: March 2, 1998
Data File: LINN623A.BHP
Remarks: Gradient run after 43 hour shut in
FL oil @ 4531’, FL water @ 6000’

<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Pressure (psig)</th>
<th>Delta Pressure (psig)</th>
<th>Pressure Gradient (psig/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>342.62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,000</td>
<td>364.97</td>
<td>22.35</td>
<td>0.0112</td>
</tr>
<tr>
<td>3,000</td>
<td>378.91</td>
<td>13.94</td>
<td>0.0139</td>
</tr>
<tr>
<td>4,000</td>
<td>393.98</td>
<td>15.07</td>
<td>0.0151</td>
</tr>
<tr>
<td>5,000</td>
<td>559.45</td>
<td>165.48</td>
<td>0.1655</td>
</tr>
<tr>
<td>6,000</td>
<td>900.84</td>
<td>341.39</td>
<td>0.3414</td>
</tr>
<tr>
<td>6,491</td>
<td>1,115.27</td>
<td>214.43</td>
<td>0.4367</td>
</tr>
</tbody>
</table>

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 04 1998
CONSERVATION DIVISION
WICHITA, KS

Lightning Wireline, Inc.
Lightning Wireline, Inc.

Company: Sovereign Energy
Well #: Linnebur6-23
Location: NESW 6-3S-60W
Lease: Linnebur
Field: Barrel
Test date: March 2, 1998
County: Weld
State: Colorado
File: LINN623A

Fluid level 1 @ 4,531 ft.
Fluid level 2 @ 6,000 ft.