API No. 15- 137-20,376 -00-00

County Norton

Footages Calculated from ESE (circle one) Line of Section

Lease Name Artha Griffey

Field Name wildcat

Producing Formation

Elevation: Ground 2348' KB 2353'
Total Depth 3900' PBTD n/a

Amount of Surface Pipe Set and Cemented at 253 Feet
Multiple Stage Cementing Collar Used? X Yes No
If yes, show depth set 1966' Feet
If Alternate II completion, cement circulated from 1966'

feet depth to surface w/ 275 sx cm.

Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)

Conservation Division

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, 82-3-186 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.

K.C.C. OFFICE USE ONLY

Distribution

Distribution

Form ACO-1 (7-91)
Operator Name: Ritchie Exploration, Inc.
Lease Name: Artha Griffey
Well #: 1
Sec.: 33  Twp.: 5S  Rge.: 22  W
County: Norton

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
☐ Yes  ☐ No
☐ Log Formation (Top), Depth and Datums  ☐ Sample Name
☐ Samples Sent to Geological Survey
☐ Yes  ☐ No
☐ Cores Taken
☐ Yes  ☐ No
☐ Electric Log Run
☐ Yes  ☐ No
☐ Submit Copy.

List All E Logs Run:
RA Guard log

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

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

<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>12½&quot;</td>
<td>8-5/8&quot;</td>
<td>28#</td>
<td>253'</td>
<td>60/40</td>
<td>180</td>
<td>2% Gel 3% CC</td>
</tr>
<tr>
<td>production</td>
<td>7-7/8&quot;</td>
<td>4½&quot;</td>
<td>10.5#</td>
<td>3898'</td>
<td>60/40</td>
<td>160</td>
<td>10% Salt 3# Gilsonite</td>
</tr>
</tbody>
</table>

ADDITIONAL CEMENTING/SQUEEZE RECORD

<table>
<thead>
<tr>
<th>Purpose:</th>
<th>Depth (Top)</th>
<th>Depth (Bottom)</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perforate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protect Casing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Back To</td>
<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>
<td></td>
</tr>
</tbody>
</table>

PERFORATION RECORD - Bridge Plugs Set/Type

<table>
<thead>
<tr>
<th>Shots Per Foot</th>
<th>Specify Footage of Each Interval Perforated</th>
<th>Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 deep pene-</td>
<td>3706.2'-3709.7'</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3706.2'-3709.7'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>trating jets</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>Set At</th>
<th>Packer At</th>
<th>Liner Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3/8&quot;</td>
<td>22' off bottom</td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

Date of First, Resumed Production, SWD or Inj.:
12/04/91

Producing Method
☐ Flowing  ☑ Pumping  ☐ Gas Lift  ☐ Other (Explain)

Estimated Production Per 24 Hours

Disposition of Gas:
☐ Vented  ☐ Sold  ☐ Used on Lease (If vented, submit ACD-18.)
☐ Open Hole  ☐ Perf.  ☐ Dually Comp.  ☐ Commingled 3706.2'-09.7'

METHOD OF COMPLETION
☐ Other (Specify)
DRILL STEM TESTS FROM CONFIDENTIAL

DST #1 from 3336' to 3380'
(Topeka 30' zone). Recovered
60' of mud, no show of oil.
IFP:74-74#/30";ISIP:1030#/30";
FFP:64-64#/30";FSIP:987#/30".
(Tool slid 5' to bottom).

DST #2 from 3413' to 3510'
(Lecompton-Oread "A"&"B" zones). Recovered 219' of
muddy water, no show of oil.
IFP:106-106#/30";ISIP:1030#/30";
FFP:160-160#/30";FSIP:987#/30".

DST #3 from 3509' to 3558' (Toronto). Recovered 2,651' of
slightly muddy salt water, no show of oil.
IFP:447-945#/30";ISIP:1219#/30";
FFP:1117-1177#/30";FSIP:1219#/30".

DST #4 from 3554' to 3585' (L/KC Top zone). Recovered 189'
of water.
IFP:74-74#/30";ISIP:1135#/45";
FFP:106-106#/30";FSIP:1114#/45".

DST #5 from 3580' to 3620' (35' & 50' zones). Recovered
250' gas in pipe; 282' slightly mud cut oil; 63' slightly
mud and water cut oil; and 567' saltwater. 912' of total
fluid (1.1% gas, 18.1% oil, 6.6% mud, 74.2% water).
IFP:96-181#/30";ISIP:1200#/30";
FFP:309-351#/30";FSIP:1200#/30".

DST #6 from 3598' to 3620' (50' zone). Recovered 141'
clean gassy oil and 62' slightly gassy water and mud cut
oil (5% gas, 50% oil, 25% mud; 20% water).
IFP:64-64#/30";ISIP:1229#/45";
FFP:74-74#/30";FSIP:1229#/45".

DST #7 from 3619' to 3632' (90' zone). Recovered 157' gas
in pipe; 63' clean gassy oil, and 31' gassy oil cut mud.
IFP:43-43#/30";ISIP:1082#/30";
FFP:53-53#/30";FSIP:1082#/30".

ELECTRIC LOG TOPS

Anhy 1975'(+378)
B/Anhy 2005'(+348)
Topeka 3324'(-971)
Heebner 3521'(-1168)
Toronto 3546'(-1193)
Lansing 3563'(-1210)
B/KC 3748'(-1395)
Cgl. 3806'(-1453)
Arbuckle 3870'(-1517)
LTD 3901'(-1548)
#1 Artha Griffey
NE NE NW
Section 33-5S-22W
Norton County, KS
API# 15-137-20,376
ACO-1 form
Page 3

DRILL STEM TESTS (cont'd)

DST #8 from 3635' to 3694' (100'-140' zones). Recovered
839' of slightly gas and oil cut muddy water (2% gas, 5%
oil, 13.7% mud, 79.3% water).
IFP: 138-202#/30"; ISIP: 1209#/45";
FFP: 319-362#/30"; FSIP: 1209#/45".

DST #9 from 3689' to 3715' (180' zone). Recovered 1,131'
gas in pipe, 2,260' gassy water cut oil (17% gas, 50.9%
oil, 5% mud, 27.1% water).
IFP: 287-605#/30"; ISIP: 1262#/45";
FFP: 712-871#/30"; FSIP: 1262#/45".
## Allied Cementing Co., Inc.

**Home Office P. O. Box 31**

**Russell, Kansas 67665**

<table>
<thead>
<tr>
<th>Date</th>
<th>Sec.</th>
<th>Twp.</th>
<th>Range</th>
<th>Called Out</th>
<th>On Location</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-20-91</td>
<td>33</td>
<td>S</td>
<td>22 W</td>
<td>7:00 A.M.</td>
<td>11:00 A.M.</td>
<td>1:45 P.M.</td>
</tr>
</tbody>
</table>

**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:** Ritchie's Exploration, Inc.

**Street:** 125 N. Market Suite 1000

**City:** Wichita, Ks. 67202

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

**Purchase Order No.:**

X

---

### Equipment

<table>
<thead>
<tr>
<th>No.</th>
<th>Equipment</th>
<th>Driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>191</td>
<td>Pumper</td>
<td>Gary</td>
</tr>
<tr>
<td>191</td>
<td>Helper</td>
<td>Wayne</td>
</tr>
<tr>
<td>146</td>
<td>Pumper</td>
<td></td>
</tr>
<tr>
<td>146</td>
<td>Driver</td>
<td>Mark</td>
</tr>
</tbody>
</table>

### Depth of Job

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Pumphuck post collar</td>
<td>156</td>
<td>7500</td>
</tr>
<tr>
<td>13</td>
<td>Mileage</td>
<td>800</td>
<td>104</td>
</tr>
</tbody>
</table>

### Sub Total

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling</td>
<td>1.00</td>
<td>275.00</td>
</tr>
<tr>
<td>Mileage</td>
<td>0.40</td>
<td>572.00</td>
</tr>
</tbody>
</table>

**Total:** 1947.00

---

**Remarks:**

- Post collar opened & closed
- Okay and held
- Cement Circulated

---

**Release:**

**FEB 2-3 1994**

**Dated:** DEC 3-1991

**From Confidential:** NOV 25 1991
<table>
<thead>
<tr>
<th>Date</th>
<th>10-28-91</th>
<th>9:00 A.M.</th>
<th>00 A.M.</th>
<th>12:30 A.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Hill City, KS</td>
<td>14111 E</td>
<td>84 NY</td>
<td>1117 Kc</td>
</tr>
<tr>
<td>Contractor</td>
<td>Munroe Drilling Co.</td>
<td>Rig #8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type Job</td>
<td>Set Surface Pipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hole Size</td>
<td>12 1/4&quot;</td>
<td>T.D.</td>
<td>254'</td>
<td></td>
</tr>
<tr>
<td>Casing</td>
<td>8 7/8&quot;</td>
<td>Depth</td>
<td>253'</td>
<td></td>
</tr>
<tr>
<td>Drill Pipe</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tool</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cement Left in Casing</td>
<td>15'</td>
<td>Shoe Joint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Press Max.</td>
<td>Minimum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meas Line</td>
<td>X Displace</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perf.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EQUIPMENT**

<table>
<thead>
<tr>
<th>No.</th>
<th>Pumperk</th>
<th>191</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Driver</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Driver</td>
<td>Jason C.</td>
</tr>
<tr>
<td></td>
<td>Driver</td>
<td></td>
</tr>
</tbody>
</table>

**DEPT of Job**

<table>
<thead>
<tr>
<th>Reference</th>
<th>1 Pump Truck - Surface</th>
<th>180 sks $740.00</th>
<th>26 gel, 39 C.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>13 Mileage $2.00/mi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1- 81/8&quot; uniforms</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subtotal</td>
<td>$357.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$1388.40</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Cement Circulated.

**Thank You**, Jan 2, 1992

**RELEASED**, Feb 28, 1994

**FROM CONFIDENTIAL**, Nov 01, 1994
**ALLIED CEMENTING CO., INC.**

**Home Office P. O. Box 31**

**Russell, Kansas 67665**

<table>
<thead>
<tr>
<th>Date</th>
<th>11-10-91</th>
<th>Sec</th>
<th>Fwp.</th>
<th>Range</th>
<th>Called Out</th>
<th>On Location</th>
<th>Job Start</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leases</td>
<td>A. Griffin</td>
<td>33</td>
<td>5</td>
<td>22</td>
<td>8:15 A.M.</td>
<td>11:15 A.M.</td>
<td>3:45 P.M.</td>
<td>4:45 P.M.</td>
</tr>
</tbody>
</table>

**Contractor:** Martin Daily Co.  Rig #8  

**Type Job:** Production String

<table>
<thead>
<tr>
<th>Hole Size</th>
<th>T.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 3/8&quot;</td>
<td>3900'</td>
</tr>
<tr>
<td>4 1/2&quot;</td>
<td>3898'</td>
</tr>
<tr>
<td>8 7/8&quot;</td>
<td>253'</td>
</tr>
</tbody>
</table>

**Drill Pipe**

Depth:
- 253'

**Tool**

- Part Caller (Baker)  Depth 1965'

**Cement Left in Casing**

- 22'

**Press Max.**

- 1000#

**Mess Line**

- Released

**Perfor.**

- FEB 28 1994

**EQUIPMENT**

**No.**

- Pumperk 191  
  - No.  
  - No.

**Cementer**

- Barry H.

**Helper**

- Wayne M.

**Driver**

- Joe S.

**Bulkerk #212**

**Driver**

- Joe S.

**DEPTH of Job**

- 1- 4 1/2" rubber plugging  #33.00
  - #1 Pump truck-long string  880.00
  - #12 4 1/2" rotating swivel  60.00
  - #13 mileage 2.00/mile  104.00

**Sub Total**

- 1074.00

**Remarks:**

- Plugged rat hole w/ 15 sks

- Float Held

**Amount Ordered**

- 175 sks  5400.00  10% salt

- Consisting of 3 1/2 gipsite 3 1/2400 gal WFR 7

- Common 105 sks  2550.00

**Poz. Mix**

- 70 sks  2.52/sk  157.50

**Gel**

- 80.75

**Chloride Salt**

- 17 sks  4.75/sk  80.75

**Quicksand**

- 454 sks  2.34/sk  1073.24

**WFR 7**

- 500 gal  0.80/gal  400.00

**Sales Tax**

- 175.00

**Handling**

- 0.50/sk (175 sks)  87.50

**Mileage**

- 0.45/sk/mi (52 mi)  16.80

**Sub-Total**

- 1339.32

**Total**

- 1729.32

**Floating Equipment**

- 4 1/2" regular guide shoe  109.00

- 1-ACH insert (Baker type)  149.00

- Cementing Basket  113.00

- 6-turbo centralizers  33.00

- 1-port caller (Baker)  16.80

**DEC 3 1991 401.00**