



KANSAS CORPORATION COMMISSION 1095371
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 8210
Name: Birk, Edward E.
Address 1: 302 S 16TH ST
Address 2: _____
City: BURLINGTON State: KS Zip: 66839 + 2329
Contact Person: Edward E Birk
Phone: (620) 364-2745
CONTRACTOR: License # 30567
Name: Rig 6 Drilling Co., Inc.
Wellsite Geologist: Julie Shaffer
Purchaser: Coffeyville Resources

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Corr. Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

| | | |
|-----------------------------------|-------------------|---|
| <u>04/02/2012</u> | <u>04/06/2012</u> | <u>04/06/2012</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-207-28088-00-00
Spot Description: _____
NW SW NE SE Sec. 34 Twp. 25 S. R. 14 East West
1930 Feet from North / South Line of Section
1105 Feet from East West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Woodson
Lease Name: Lanham Well #: 5
Field Name: Batesville
Producing Formation: Squirrel
Elevation: Ground: 1051 Kelly Bushing: 1057
Total Depth: 1590 Plug Back Total Depth: 1526
Amount of Surface Pipe Sealed Cemented at: 40 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 1526
feet depth to: 0 w/ 225 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 10/02/2012



1095371

Operator Name: Birk, Edward E. Lease Name: Lanham Well #: 5
 Sec. 34 Twp 25 S R. 14 East West County: Woodson

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| | | | |
|--|---|---|--|
| Drill Stem Tests Taken <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Log Form: <input type="checkbox"/> Top <input type="checkbox"/> Depth <input type="checkbox"/> Datum | <input checked="" type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | See attached | |
| Electric Log Run | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Electric Log Submitted Electronically <i>(If no, Submit Copy)</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

List All E. Logs Run:
 Gamma Ray/Neutron

| CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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 casing | 12.25 | 8.625 | 18 | 40 | Portland | 20 | Calcium |
| Long string | 6.75 | 2.875 | 6.5 | 1526 | Pozmix/thickset | 225 | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|---------------|
| 3 | 1457-1459, 1461-1463, 1465-1467 | Frac w/25 sx sand | 1393-1403 |
| | 2 1/2" cast iron bridge plug @ 1430' | Frac w/40 sx sand | 1212.5-1222.5 |
| 3 | 1393-1403' | | |
| 2 | 1212.5-1222.5' | | |

| | | | | | |
|----------------|-------|---------|------------|-----------|---|
| TUBING RECORD: | Size: | Set At: | Packer At: | Line Run: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|----------------|-------|---------|------------|-----------|---|

| | | | | | |
|--|--|----------|--------------|----------------|----------|
| Date of First, Resumed Production, SWD or ENHR. 04/28/2012 | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | | |
| Estimated Production Per 24 Hours | Oil Bbl's: <u>1</u> | Gas Mcf: | Water Bbl's: | Gas-Oil Ratio: | Gravity: |

| | | |
|---|---|--|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Cemented <i>(Submit ACO 5)</i> <input type="checkbox"/> Other (Specify) | PRODUCTION INTERVAL: _____ <i>(Submit ACO-4)</i> |
|---|---|--|



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676



ENTERED

FIELD TICKET & TREATMENT REPORT

TICKET NUMBER 36384
LOCATION Eureka
FOREMAN Steve Reed

CEMENT API 15-207-29088

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|---|------------|--------------------|-------------------------------|----------|-------|---------|
| 4-2-12 | 1519 | Lanham #5 | 24 | 25S | 14E | Woodson |
| CUSTOMER <u>Edward E. Birk (Birk oil)</u> | | | TRUCK # DRIVER TRUCK # DRIVER | | | |
| MAILING ADDRESS <u>303 S. 16th St</u> | | | 485 Alan | | | |
| CITY STATE ZIP CODE <u>Burlington KS 66839</u> | | | 513 Colin | | | |
| | | | 611 Jay | | | |
| | | | 452/183 Ed | | | |

JOB TYPE Logging HOLE SIZE 6 3/4 HOLE DEPTH 1590 CASING SIZE & WEIGHT _____
 CASING DEPTH 1526 DRILL PIPE _____ TUBING 2 3/8 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 8 3/4 DISPLACEMENT PSI 800* Bump 1200* RATE _____

REMARKS: Safety meeting. Rig up to 2 3/8 tubing. Break circulation w/ fresh water Pump 500# Gel Flush & 3 bbls Fresh water let Drilling Rig Circulate Gel around. Rig backup to 2 3/8 tubing. Pump 5 bbls water. Mix 175 sks 6 1/4 Pal mix cement w/ 4% gel & 1# phenoseal per/sk & 50 sks thick set cement w/ 5# Kalseal per/sk. Shutdown wash out pump & lines. Stuff plugs. Displace with 3 bbls Fresh water. Final pumping pressure 800#. Bump Play 1200# Blend pressure down to 500# Shut well in. Good cement returns to surface. 8 bbl slurry top it.
Job completed Rig down

Thank you!

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401 | 1 | PUMP CHARGE | 1030.00 | 1030.00 |
| 5406 | 23 | MILEAGE | 4.00 | 100.00 |
| 1131 | 175 sks | 6 1/4 Pal mix cement | 12.55 | 2196.25 |
| 1118B | 600 # | Gel 4% } lead | .21 | 126.00 |
| 1107A | 175 # | Phenoseal 1# per/sk } Tail | 1.29 | 225.75 |
| 1126A | 50 sks | Thick set cement | 19.20 | 960.00 |
| 1110A | 250 # | Kalseal 5# per/sk | .46 | 115.00 |
| 5407 | 1028 Ton | Tan Mileage Bulk Trucks | m/c | 350.00 |
| 1118A | 500 # | Gel Flush | .21 | 105.00 |
| 5801C | 7 hrs | Water Transport | 112.00 | 784.00 |
| 1173 | 4000 gallons | City Water | 16.50/gal | 66.00 |
| | | | Sub Total | 5610.00 |
| | | | SALES TAX 2.3% | 276.98 |
| | | | ESTIMATED TOTAL | 5886.98 |

Revin 5737

3548881

AUTHORIZATION Ed Birk TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

RIG 6 DRILLING CO. INC

PO BOX # 227

R.K. 'BUD' SIFERS
620 365 6294

IOLA, KS
66749

JOHN BARKER
620 367 7806

COMPANY: Edward Birk
ADDRESS: 302 S. 16th
Burlington, KS

LEASE: Lanham
COUNTY: Woodson
LOCATION 1930' fs/1105' fel
Sec34Twp25Rge14e

COMMENCED.
COMPLETED.
WELL #:
API#:
STATUS:
TOTAL DEPTH:
CASING:

4/2/2012
4/6/2012
5
15-207-28,088
Oil Well
1590'-6 3/4"
40'-6 5/8" cmt w/ 20 sx
52' - 8 1/2" Consol cmt.

DRILLER'S LOG

| | | |
|------|----------------|---------------------|
| | | 1067 Sa NO |
| | | 1098 Sh w/ sa sh |
| 3 | soil & clay | 1101 LS |
| 10 | Ls | 1103 Co |
| 23 | Sh | 1137 LS |
| 25 | Sa | 1153 Sh |
| 80 | Sh w/ sa sh | 1194 LS w/ sh strks |
| 82 | LS | 1212 Sh w/ ls strks |
| 122 | LS w/ sa ls | 1221 Sa good odor |
| 206 | Sh | 1273 Sh |
| 209 | Ls | 1275 Co |
| 346 | Sh | 1312 Sh |
| 410 | Ls w/ sa ls | 1315 Co |
| 461 | LS w/ sh strks | 1389 Sh |
| 621 | LS w' sa ls | 1394 Sa lt odor |
| 632 | Sh | 1456 Sa w. sh strks |
| 638 | LS | 1460 Sa lt odor |
| 676 | Sh | 1464 Sh |
| 834 | Ls w/ sh strks | 1467 Sa fair odor |
| 953 | Sh | 1470 Sa lt odor |
| 960 | Ls | 1494 Sa w/ sh no ns |
| 979 | Sh | 1509 Sh |
| 982 | Ls | 1531 Co |
| 1010 | Sh | 1541 Sh |
| 1021 | LS | 1543 Co |
| 1024 | Co | 1549 Sh |
| 1063 | Sh w/ sa sh | 1566 LS (hard) |
| | | 1568 Sa ls NO, NS |
| | | 1570 LS |
| | | 1581 Sa NO, NS |
| | | 1590 ls T D |

GEOLOGICAL REPORT

Lanham #5
1930' FSL, 1105' FEL
Sec. 34 T25S R14E
NW SW NE SE
Woodson County, Kansas

Date: 4/9/12

Operator: Ed Birk, 302 S. 16th St., Burlington, Kansas 66839

Drilling Contractor: Rig 6 Drilling
Mud Rotary Drill Rig

Wellsite Geologist: Julie Shaffer

Dates Drilled: April 4 & 5, 2012

Total Depth: 1590' Elevation: 1051' (Est.)

Status: OIL WELL

Notes: Well cuttings were examined at the drill rig and discarded. Select samples of zones of interest were saved and examined in the laboratory with a binocular microscope and blacklight. Formation tops were picked from the geolograph and correlated back to the open hole logs.

Comments: Squirrel Sandstone had a fair to good oil show (drillers log) from 1216-1226'
Upper Bartlesville Sandstone had a poor oil show from 1390-1410'
Lower Bartlesville Sandstone had a fair oil show from 1470-1475'
Mississippi had no visual oil show but a porous sacrosic dolomite with good fluorescence and a faint oil cut

FIELD and LABORATORY SAMPLE EXAMINATION

0-1216' Samples not examined

Top of the Upper Squirrel Sandstone at 1216' (-165')

1216-1226' Sandstone, medium gray with a moderately uniform medium brown oil and a heavier dark brown speckled oil staining, fair saturation, mostly loose fairly sorted with sub-angular to sub-rounded fine grains, silty, 16-18% porosity, slightly micaceous, free oil bleed and good oil show on the pit noted on the drillers log, free oil on water when washed, strong petroliferous odor, microscopic gas bubbles popping on cuttings surface, 70-80% heavy evenly speckled bright yellowish-green hydrocarbon fluorescence, slightly broken with light gray sand, 12-16% porosity, traces of shale laminations present

1226-1390' Samples not examined

Top of the Upper Bartlesville Sandstone at 1390' (-339')

1390-1394' Sandstone, medium-light gray, mottled dark brown oil staining, very fine grained, well sorted, sub-rounded, silty cementation, fairly friable, fair saturation, 14-16% porosity, broken with shale laminations, micaceous, calcareous, fair petroliferous odor, 50-60% heavily mottled bright yellowish-green hydrocarbon fluorescence

1394-1410' Sandstone, medium-light gray, mottled dark brown to black oil staining, fine grained, well sorted, sub-rounded, silty cementation, friable, fair to good saturation, 16-18% porosity, slightly broken with shale laminations, micaceous, calcareous, good petroliferous odor, 75-85% heavily mottled to uniform bright yellowish hydrocarbon fluorescence

1410-1440' Sandstone, medium gray, speckled black oil staining, coarser sand grains have a light brown oil staining, 70% of chips have very fine well cemented grains and 30% of chips have coarse, loosely cemented grains, 14-16% porosity, calcareous, abundant shale laminations, micaceous, calcareous, fair petroliferous odor, 30-40% mottled medium-bright yellow hydrocarbon fluorescence

1440-1462' Shale, medium-light gray, silty to almost sandy in some samples, no petroliferous odor, no fluorescence

Top of the Lower Bartlesville Sandstone at 1462' (-411')

1462-1465' Sandstone, light yellowish-gray, loose well sorted fine grains, good porosity, gas bubbles observed popping on surface, no petroliferous odor, no fluorescence

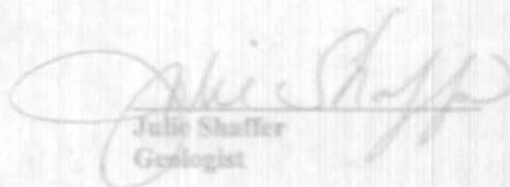
1465-1470' Sandstone, light-gray with a faint yellowish-gray stain, pale yellowish-orange oil bleed, loose well sorted medium-fine grains, friable, good porosity ~18-20%, gas bubbles observed popping on cuttings surface, slightly calcareous, very little silt, rainbow sheen on pit, fair petroliferous odor, 10-20% mottled medium-bright yellow fluorescence

- 1470-1475' Sandstone, light-gray, pale yellowish-orange oil bleed/stain, loose well sorted sub-angular to sub-rounded fine to coarse grains, friable, good porosity, gas bubbles observed popping on surface, little to no silt, 20+% porosity, free oil on pit (very little show), good petroliferous odor, field notes indicate a 90% heavily mottled medium-bright yellow hydrocarbon fluorescence, after washing cuttings only exhibit a 60-70% mottled medium-bright yellow fluorescence, oil observed was a very lightweight yellow/gold color, some free oil was observed on water when washing (fluoresced), samples exhibited a fairly fast, even, medium-bright, bluish-white cut under black light
- 1475-1488' Shale, silty to sandy, no petroliferous odor, no fluorescence
- 1488-1490' Rowe Coal, few cuttings seen
- 1490-1534' Shale, dark gray, pyritic
- 1534-1537' Riverton Coal, no cuttings observed
- 1537-1554' Shale, dark gray

Top of the Mississippi at 1554' (-503')

- 1554-1564 Chert (80%), white/off-white, siliceous and chalky; Limestone (10%), olive gray, fine grained, pyritic, <2% pinpoint vugular porosity, no petroliferous odor/show, no fluorescence; Shale (10%), medium to dark gray, dove gray, waxy
- 1564-1571' Limestone, white, fine grained, scattered pyrite, no visible porosity, no petroliferous odor/show, faintly mottled dull yellow fluorescence, no hydrocarbon cut
- 1571-1575' Dolomite, off-white, pale yellowish-brown, calcareous, sacrosic, very friable, overall low intercrystalline porosity, majority of chips exhibit as high as 20-25% vugular porosity, no petroliferous show, slight flash odor at 1570', 100% uniform medium-bright yellow fluorescence. Samples exhibited a moderately slow, very faint, even, milky blue cut in dimple tray with ether, no residual oil show in white light. Trace of shale laminae present.
- 1575-1590' Limestone olive gray, fine grained, siliceous, no fluorescence

T.D. 1590'


Julie Shaffer
Geologist