



KANSAS CORPORATION COMMISSION 1062010
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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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 (Core, 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 #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____ Date: _____



1062010

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|---|---|

| CASING RECORD <input type="checkbox"/> New <input 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| _____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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 |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

| | | | | | |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | 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"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL: _____ _____ |
|--|--|---|

Well Report

WESTFALL 3E-12

API Number:

AFE Number: W886

Project Area: SYCAMORE
KS MONTGOMERY
31S - 13E - 12
366FNL - 1435FWL

AFE Amount: \$0.00

| Activity Date | Activity Description |
|----------------------|--|
| 5/2/2011 | MIRU Thornton, drilled 11" hole 44' deep, RIH W/2 joint 8-5/8" surface casing. Mixed 8 sx type 1 cement, dumped down the backside. SDFN. |
| 5/3/2011 | Tih w/6-3/4" hammer bit and drill pipe, drilled out from under surface to 1212', testing and pulling samples at zone of interest. PULLED PIPE BACK TO 900' SDFN. |
| 5/4/2011 | RESUMED DRILLING FROM 1211' TO TD OF 1512 TAKING SAMPLES FROM ZONES OF INTREST RD DRILL RIG MOVE IN OSAGE WIRELINE RAN LOGS FROM LOGGER DEPTH TO SURFACE JOB COMPLETE AWAITING DECISION TO RUN CASING. |
| 6/28/2011 | MI RU TO 4-1/2 CASING WITH WASH HEAD, BREAK CIRCULATION WITH 35 BBL FRESH WATER. WASH DOWN 130' TO PBTD WITH GEL WATER. MIXED 10 SKS GEL FLUSH WITH HULLS 5 BBL WATER SPACER 15 BBL CAUSTIC SODA PRE- FLUSH. MIXED 80 SKS THICKSET CEMENT WITH #8 KOL-SEAL/SK 1/8 PHENOSEAL/SK 1/4 % CIL-115 @ 13.4 # / GAL YIELD 1.75 WASHOUT PUMP AND LINES, RELEASE LATCH DOWN PLUG. DISPLACE WITH 23.9 BBL WATER FINAL PUMP PRESSURE 1000 PSI BUMP PLUG TO 1500 PSI. RELEASE PRESSURE, FLOAT AND PLUG HELD GOOD RETURNS TO PIIT AT ALL TIMES WHILE CEMENTING . JOB COMPLETE RIG DOWN. GOOD OIL SHOW ON PIT WHILE CEMENTING. RAN 35 JTS OF 4-1/2 CASING 10.5 LB FROM SUNRISE 1475.13 PBTD 1512 TD |
| 6/30/2011 | MI RU PULLING UNIT RAN 1" PIPE, WASHED DOWN TO 578' PUMP 20 BBL WATER AHEAD. MIXED 80 SKS 60/40 POZ MIX WITH 4% GEL AT 13.8 LB PER GALLON. PULL 1" OUT OF BACK SIDE, TOP WELL OFF WITH CEMENT. JOB COMPLETE. DWC:\$3964 |

8/9/2011

MIRU Osage Wireline & Consolidated Oil Well Services. Osage RIH and ran CBL-CCL/VDL from 1472' to 0'. Bond looks good all depths. Osage RIH and perforated Cattleman from 1316' to 1325' with 2 spf, 180 degree, 25 gm. TOTAL 19 holes Consolidated spotted 100 gallons 15% HCL across Cattleman perms. Established rate and pumped an additional 200 gallons 15% HCL then Frac'd Cattleman with 51 bbls PAD (25 ppt gelled city water with 2% KCL & biocide) followed by 3,800 lbs 16/30 and 5,800 lbs 12/20 sand at 0.25 to 3 ppg concentrations. Ran out of frac fluid during 12/20 sand. Flushed with 26 bbls gelled water. Breakdown 1721 psig, ISIP 450 psig, 5 min 400 psig, 10 min 390 psig, 15 min 383 psig. ATP 775 psig, MTP 893 psig, ATR 24 BPM, MTR 24.1 BPM.

TOTALS: 300 gallons 15% HCL, 9,600 lbs 16/30 & 12/20 sand, 275 bbls gelled water

Shut well in overnight to allow gel to break. Rig down Osage and Consolidated.

8/10/2011

MI RU TRIPPED IN HOLE WITH TUBING SET SN @ 1345' MA 1360'. RAN RODS WITH NEW 8 CUP PUMP HUNG OFF ON WELL HEAD WELL READY FOR PROD.

TBG STRING

42- 2 3/8 TBG

0' SUBS

SN @ 1345'

15' OEMA @ 1360'

ROD STRING

53- 3/4 RODS

1-8' PONYS

1 1/2 X 6' CUP BHD INST PMP

1 1/8 X 11' POLISH ROD



CONSOLIDATED
Oil Well Services, LLC

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

TICKET NUMBER 30697
LOCATION Eniera
FOREMAN Rick Ledford

FIELD TICKET & TREATMENT REPORT

CEMENT

API# 15-125-32071

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|--|------------|--------------------------|-------------------------------|----------|-------|--------|
| 6-28-11 | 4758 | Westfall 3E-12 | 12 | 315 | 13E | M6 |
| CUSTOMER <u>Layne Energy</u> | | | TRUCK # DRIVER TRUCK # DRIVER | | | |
| MAILING ADDRESS <u>P.O. Box 160</u> | | | 520 John | | | |
| CITY <u>Sycamore</u> | | | 479 Jocy | | | |
| STATE <u>KS</u> | | ZIP CODE <u>67363</u> | | | | |

JOB TYPE L/S 0 HOLE SIZE 6 3/4" HOLE DEPTH 1512' CASING SIZE & WEIGHT 4 1/2" 10.5#
 CASING DEPTH 1475' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.9# SLURRY VOL 25 Bbl WATER gal/sk 8.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 23.9 DISPLACEMENT PSI 1000 MIX PSI 1500 Bump plus RATE _____

REMARKS: Safety meeting - Rig up to 4 1/2" casing w/ washhead. Break circulation w/ 35 Bbl fresh water. Washdown 130' to PSTD w/ gel water. Mixed 10 sks gel flush w/ hulls, 5 Bbl water spacer, 15 Bbl caustic soda pre-flush. Mixed 80 sks thickset cement w/ 8" Kol-seal/sk, 1/8" phenoseal/sk + 1/4" CTI-115 @ 13.4#/sk yield 1.25. Washout pump + lines, release latch down plug. Displace w/ 23.9 Bbl water. Final pump pressure 1000 PSI. Bump plug to 1500 PSI. release pressure, float + plug held. Good circulation @ all times while cementing. Job complete Rig down.

"Thank You"

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401 | 1 | PUMP CHARGE | 975.00 | 975.00 |
| 5406 | 40 | MILEAGE | 4.00 | 160.00 |
| 1126A | 80 sks | thickset cement | 18.30 | 1464.00 |
| 1110A | 640# | 8" Kol-seal/sk | .44 | 281.60 |
| 1107A | 16# | 1/8" phenoseal/sk | 1.22 | 12.20 |
| 1135A | 20# | 1/4" CTI-115 | 9.95 | 199.00 |
| 1118B | 3250# | gel-flush | .20 | 650.00 |
| 1105 | 50# | hulls | .42 | 21.00 |
| 1103 | 100# | caustic soda | 1.52 | 152.00 |
| 5407 | 4.9 | for mileage bulk tire | m/c | 330.00 |
| 4156 | 1 | 4 1/2" flapper valve float shoe | 175.00 | 175.00 |
| 4453 | 1 | 1/2" latch down plug | 155.00 | 155.00 |
| | | | Subtotal | 4574.80 |
| | | | SALES TAX | |
| | | | ESTIMATED TOTAL | |

Ravin 3737

AUTHORIZATION Sandy McElR

TITLE Drilling Foreman

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.

Air Drilling Specialist
Oil & Gas Wells

THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449
Cancy, KS 67333

| | |
|----------------|-----------------|
| Date Started | 5/2/2011 |
| Date Completed | 5/4/2011 |

| Well No. | Operator | Lease | A.P.I.# | County | State |
|--------------|-------------------------------|------------------|----------------------------|-------------------|---------------|
| 3E-12 | Layne Energy Operating | West Fall | 15-1250-32071-00-00 | Montgomery | Kansas |

| 1/4 | 1/4 | 1/4 | Sec. | Twp. | Rge. |
|-----|-----|-----|-----------|-----------|-------------|
| | | | 12 | 31 | 13 E |

| Driller | Type/Well | Cement Used | Casing Used | Depth | Size of Hole |
|--------------------|------------|-------------|--------------------|-------------|--------------|
| Billy, Sean | Oil | 8 | 43.5' 8 5/8 | 1513 | 6 3/4 |

Formation Record

| | | | | | |
|-----------|--------------------------|-----------|-----------------------|-----------|----------------------|
| 0-6 | DIRT | 1086-1092 | BLK SHALE (LEXINGTON) | 1462-1484 | SHALE |
| 6-18 | CLAY | 1092-1133 | SHALE | 1484-1509 | MISS. CHAT (MISS) |
| 18-24 | LIME | 1133-1155 | LIME (OSWEGO) | 1509-1513 | GRAY LIME |
| 24-300 | SHALE | 1155-1163 | BLK SHALE (SUMMIT) | 1512 | GAS TEST-SLIGHT BLOW |
| 300-334 | LIME | 1163-1171 | LIME | 1513 | TD |
| 334-520 | SHALE | 1171-1174 | BLK SHALE (EXCELLO) | | |
| 520-550 | SAND (DAMP) | 1174-1175 | COAL (MULKEY) | | |
| 550-580 | SANDY SHALE | 1175-1179 | LIME | | |
| 580-596 | SHALE | 1179-1222 | SHALE | | |
| 596-722 | LIME/LOTS OF WATER @ 700 | 1222-1223 | COAL | | |
| 710 | WENT TO WATER | 1223-1237 | SHALE | | |
| 722-728 | SHALE | 1237-1239 | LIME (V-LIME) | | |
| 728-739 | LIME | 1239-1241 | SHALE | | |
| 739-767 | SAND | 1241-1242 | COAL (CROWBERG) | | |
| 767-803 | LIME | 1242-1260 | SAND SHALE | | |
| 803-844 | SHALE | 1260-1279 | SHALE | | |
| 844-855 | LIME | 1279-1280 | COAL (MINERAL) | | |
| 855-889 | SHALE | 1280-1300 | SHALE | | |
| 889-891 | LIME | 1300-1305 | SANDY SHALE | | |
| 891-900 | SAND | 1305-1307 | SAND / LITE OIL ODOR | | |
| 900-926 | SANDY SHALE | 1307-1310 | SANDY SHALE | | |
| 926-946 | LIME | 1310-1320 | BLACK SHALE | | |
| 946-959 | SAND (WISER) | 1320-1330 | SAND / LITE ODOR | | |
| 959-975 | SANDY SHALE | 1330-1337 | SANDY SHALE | | |
| 975-981 | SAND | 1337-1350 | SHALE | | |
| 981-1046 | SANDY SHALE | 1350-1390 | SANDY SHALE | | |
| 1046-1047 | COAL (MULBERRY) | 1390-1410 | RED SHALE | | |
| 1047-1081 | LIME (PAWNEE) | 1410-1411 | COAL (ROWE) | | |
| 1081-1083 | SHALE | 1411-1461 | SHALE | | |
| 1083-1086 | LIME | 1461-1462 | COAL (RIVERTON) | | |

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 23, 2011

Victor H. Dyal
Layne Energy Operating, LLC
P O Box 160
Sycamore, KS 67363

Re: ACO1
API 15-125-32071-00-00
Westfall 3E-12
NW/4 Sec.12-31S-13E
Montgomery County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Victor H. Dyal