KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1149294

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 # 34586
Name: ST Petroleum, Inc.
Address 1: 18800 Sunflower Rd
Address 2:
City: Edgerton State: KS Zip: 66021 + __ __ __ __
Contact Person: Rick Singleton
Phone: (913) 980-5036
CONTRACTOR: License # 33715
Name: Town Oilfield Service
Wellsite Geologist: NA
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

6/13/2013	6/14/2013	6/14/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24165-00-00
Spot Description:
SW - SE - SE - NE Sec. 29 Twp. 14 S. R. 22 [x] East [ ] West
2845 Feet from [ ] North / [x] South Line of Section
455 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Johnson
Lease Name: Thomas A Well #: 4-A
Field Name: Gardner South
Producing Formation: Bartlesville
Elevation: Ground: 1029 Kelly Bushing: 0
Total Depth: 940 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 23 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: 23 w/ 2 sx cmt.

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

Chloride content: 1500 ppm Fluid volume: 80 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:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrison **Date:** 07/05/2013

Side Two

[redacted]

1149294

Operator Name: ST Petroleum, Inc. Lease Name: Thomas A Well #: 4-A

Sec. 29 Twp. 14 S. R. 22 ☑ East ☐ West County: Johnson

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

GammaRay/Neutron/CCL

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
GammaRay		

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	9	7	10	23	Portland	2	50/50 POZ
Completion	5.6250	2.8750	8	927	Portland	117	50/50 POZ

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 *(Amount and Kind of Material Used)*	Depth
3	878-886	2" DML RTG	8

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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Johnson County, KS
Well: Thomas A 4-A
Lease Owner: ST Petroleum

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
6/13/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-40	Soil-Clay	40
18	Shale	58
4	Lime	62
4	Shale	66
17	Lime	83
10	Shale	93
9	Lime	102
8	Shale	110
19	Lime	129
17	Shale	146
20	Lime	166
7	Shale	173
55	Lime	228
20	Shale	248
8	Lime	256
20	Shale	276
6	Lime	282
6	Shale	288
8	Lime	296
34	Shale	330
1	Lime	331
10	Shale	341
25	Lime	366
8	Shale	374
24	Lime	398
4	Shale	402
4	Lime	406
5	Shale	411
6	Lime	417
33	Shale	450
18	Sand	468
69	Shale	537
7	Sand	544
48	Shale	592
5	Lime	597
12	Shale	609
6	Lime	615
16	Shale	631
3	Lime	634
6	Shale	640

Johnson County, KS
Well: Thomas A 4-A
Lease Owner: ST Petroleum

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
6/13/2013

4	Lime	644
63	Shale	707
12	Sand	719
39	Shale	758
10	Sand	768
12	Sandy Shale	780
98	Shale	878
10	Sand	888
52	Sandy Shale	940-TD

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D^2x.14xh
D equals diameter in feet.
h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004
BPH - barrels per hour
PSI - pounds square inch

TO FIGURE PUMP DRIVES

* D - Diameter of Pump Sheave
* d - Diameter of Engine Sheave
SPM - Strokes per minute
RPM - Engine Speed
R - Gear Box Ratio
*C - Shaft Center Distance

D - RPMxd over SPMxR
d - SPMxRxD over RPM
SPM - RPMXD over RxD
R - RPMXD over SPMxD

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}}$ = AMPS

746 WATTS equal 1 HP

Log Book

Well No. 4-A

Farm Thomas A

KS (State) Johnson (County)

29 (Section) 14 (Township) 22 (Range)

For ST Petroleum inc (Well Owner)

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Brooke 1:40 June 13 Surface
Brooke 2:30 June 14 Longstring

Thomas A Farm: Johnson County
KS State; Well No. 4-A
Elevation 1027
Commenced Spuding June 13 20 13
Finished Drilling June 14 20 13
Driller's Name Wesley Dollard
Driller's Name
Driller's Name
Tool Dresser's Name Ryan Ward
Tool Dresser's Name Greg Perry
Tool Dresser's Name
Contractor's Name TOS

29 (Section) 14 (Township) 22 (Range)

Distance from S line, 2805 ft.
Distance from E line, 450 ft.

2 sacks
10 hrs

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
6¾" Set	23	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
918.	9	Baffle			
926.	9	float		2	7/8

Thickness of Strata	Formation	Total Depth	Remarks
0-40	Soil - clay	40	
18	Shale	58	
4	Lime	62	
4	Shale	66	
17	Lime	83	
10	Shale	93	
9	Lime	102	
8	Shale	110	
19	Lime	129	
17	Shale	146	
20	Lime	166	
7	Shale	173	
55	Lime	228	
20	Shale	248	
8	Lime	256	
20	Shale	276	
6	Lime	282	
6	Shale	288	
8	Lime	296	
34	Shale	330	
1	Lime	331	
10	Shale	341	
25	Lime	366	
8	Shale	374	
24	Lime	398	
4	Shale	402	
4	Lime	406	

406

Thickness of Strata	Formation	Total Depth	Remarks
5	Shale	411	
6	Lime	417	Hertha
33	Shale	450	
18	Sand	468	no Oil
69	Shale	537	
7	Sand	544	no Oil
48	Shale	592	
5	Lime	597	
12	Shale	609	
6	Lime	615	
16	Shale	631	
3	Lime	634	
6	Shale	640	
4	Lime	644	
63	Shale	707	
12	Sand	719	no Oil
39	Shale	758	
10	Sand	768	
12	Sandy Shale	780	some shale - no Oil
98	Shale	878	
10	Sand	888	good odor - poor show
52	Sandy Shale	940	TD

CONSOLIDATED
Oil Well Services, LLC

259691

TICKET NUMBER 41998
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/14/13	7532	Thomas A # 4-A	NE 29	14	22	JO

CUSTOMER: ST Petroleum Inc.
MAILING ADDRESS: 18800 Sunflower Rd
CITY: Edgerton | STATE: KS | ZIP CODE: 66021

TRUCK #	DRIVER	TRUCK #	DRIVER
481	Casken		
606	GacMoo		
558	Will Mat		
675	Kei Dat		

JOB TYPE Longstring | HOLE SIZE 5 5/8" | HOLE DEPTH 940' | CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 927 | DRILL PIPE | ~~TUBING~~ baffle - 919' | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT 5.32 bbls | DISPLACEMENT PSI | MIX PSI | RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 117 sks 50/50 Pozmix cement w/ 2% gel & 4 # Floseal per sk, cement to surface, flushed pump clean, pumped 2½" rubber plug to baffle w/ 5.32 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

* Well held pressure for 30 min MIT *

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	30 mi	MILEAGE		126.00
5402	927'	casing footage		—
5407	minimum	ton mileage		368.00
5502C	2 hrs	80 Vac		180.00
1124	117 sks	50/50 Pozmix cement		1345.50
1118B	397 #	Premium Gel		87.34
1107	29 #	Floseal		71.63
4402	1	2½ rubber plug		29.50
			7.525%	SALES TAX 115.43
				ESTIMATED TOTAL 3408.40

Ravin 3737

AUTHORIZTION _____ 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 for