KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1163023

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 #:

10/4/2013	10/8/2013	10/8/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24184-00-00
Spot Description:
SW - NE - SW - NE Sec. 31 Twp. 14 S. R. 22 [x] East [ ] West
3430 Feet from [ ] North / [x] South Line of Section
1671 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 B Well #: 17
Field Name:
Producing Formation: Cattleman
Elevation: Ground: 1055 Kelly Bushing: 0
Total Depth: 1000 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 22 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: 22 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:** 11/21/2013

Side Two

1163023

Operator Name: ST Petroleum, Inc. Lease Name: Thomas B Well #: 17

Sec. 31 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	22	Porltand	2	50/50 POZ
Completion	5.6250	2.8750	8	979	Porltland	136	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
2	936-931	2" DML RTG	5

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 B 17
Lease Owner: ST Petroleum

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

Commenced Spudding:
10/4/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
6	Soil-Clay	6
4	Sandstone	10
2	Shale	12
9	Sandstone	21
19	Shale	40
3	Lime	43
62	Shale	105
2	Lime	107
3	Shale	110
16	Lime	126
8	Shale	134
9	Lime	143
6	Shale	149
19	Lime	169
6	Shale	175
13	Sand	188
34	Lime	222
17	Sandy Shale	239
11	Lime	250
14	Shale	264
23	Lime	287
14	Shale	301
9	Lime	310
20	Shale	330
7	Lime	337
6	Shale	343
6	Lime	349
45	Shale	394
25	Lime	419
7	Shale	426
24	Lime	450
4	Shale	454
3	Lime	457
5	Shale	462
6	Lime	468
7	Shale	475
8	Sandy Shale	483
93	Shale	576
9	Sand	585
6	Sandy Shale	591

Johnson County, KS
Well:Thomas B 17
Lease Owner: ST Petroleum

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

Commenced Spudding:
10/4/2013

50	Shale	641
5	Lime	646
5	Shale	651
2	Lime	653
7	Shale	660
6	Lime	666
7	Sand	673
6	Sandy Shale	679
3	Shale	682
3	Lime	685
2	Coal	687
4	Shale	691
9	Lime	700
3	Lime	703
21	Shale	724
2	Lime	726
3	Shale	729
2	Lime	731
9	Shale	740
6	Sand	746
4	Sandy Shale	750
54	Shale	804
7	Sand	811
5	Sandy Shale	816
29	Shale	845
5	Sand	850
15	Shale	865
4	Sand	869
2	Sandy Shale	871
3	Lime	874
11	Shale	885
5	Sand	890
24	Shale	914
11	Broken Sand	925
1	Broken Sand	926
2	Sandy Lime	928
2	Sand	930
1	Sand	931
1	Broken Sand	932
2	Sandy Shale	934
10	Broken Sand	944
56	Shale	1000-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. 17

Farm Thomas B

KS (State) Johnson (County)

31 (Section) 14 (Township) 22 (Range)

For ST Petroleum (Well Owner)

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

Thomas B Farm: Johnson County

KS State; Well No. 17

Elevation 1055

Commenced Spuding 10-4 , 20 13

Finished Drilling 10-8 , 20 13

Driller's Name Chad Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Cole Holcomb

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TDS

31 (Section) 14 (Township) 22 (Range)

Distance from S line, 3430 ft.

Distance from E line, 1671 ft.

2 - sacks

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set	22.5'	8" Pulled	
6¼" Set		6¼" Pulled	
4" Set		4" Pulled	
2" Set	979.40 971.40 Bottle 1000' TD	2" Pulled	

In.

Thickness of Strata	Formation	Total Depth	Remarks
6	soil / clay	6	
4	sandstone	10	
2	shale	12	
9	sandstone	21	water
19	shale	40	
3	Lime	43	
62	shale	105	
2	Lime	107	
3	shale	110	
16	Lime	126	
8	shale	134	Dark
9	Lime	143	
6	shale	149	
19	Lime	168	
6	shale	175	
13	Sand	188	gray, no oil
34	Lime	222	
17	sandy shale & shale	239	
11	Lime	250	
14	shale	264	
23	Lime	287	
14	shale	301	
9	Lime	310	
20	shale	330	
7	Lime	337	
6	shale	343	
6	Lime	349	

Thickness of Strata	Formation	Total Depth (349)	Remarks
45	shale	394	
25	Lime	419	412 - water
7	shale	426	
24	Lime	450	
4	shale	454	
3	Lime	457	
5	shale	462	
6	Lime	468	Hardshe
7	shale	475	
8	sandy shale	483	
93	shale	576	
9	sand	585	no oil
6	sandy shale	591	
50	shale	641	
5	Lime	646	
5	shale	651	
2	Lime	653	
7	shale	660	
6	Lime	666	
7	sand	673	odor, little show
6	sandy shale	679	
3	shale	682	
3	Lime	685	
2	coal	687	
4	shale	691	
9	Limey shale	700	
3	Lime	703	

703

Thickness of Strata	Formation	Total Depth	Remarks
21	shale	724	710' red bed
2	Lime	726	
3	shale	729	
2	Lime	731	
9	shale	740	
6	sand	746	odor, little oil
4	sandy shale	750	
54	shale	804	
7	sand	811	no oil, Broken sand
5	sandy shale	816	
29	shale	845	
5	sand	850	no oil
15	shale	865	
4	sand	869	little odor oil
2	sandyshale	871	
3	Lime	874	
11	shale	885	
5	sand	890	no oil
24	shale	914	
11	Broken sand	925	no oil
1	Broken sand	926	odor, 25%
2	sandy Lime	928	15% - 20%
2	sand	930	70% - 80%, slight bleeding
1	sand	931	50% - 60%
1	Broken sand	932	25% - 35%
2	sandy shale	934	no oil
10	Broken sand	944	no oil

9-4-4

Thickness of Strata	Formation	Total Depth	Remarks
50	shale	1,000	

CONSOLIDATED
Oil Well Services, LLC

263049

TICKET NUMBER 42372
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
10/8/13	7532	Thomas B # 17	NE 31	14	22	JO

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

TRUCK #	DRIVER	TRUCK #	DRIVER
481	Casken	✓	Safety Meeting
606	Gaetano	✓	
503	Dan Det	✓	
370	Chris Ric	✓	

JOB TYPE longstring | HOLE SIZE 5 5/8" | HOLE DEPTH 1000' | CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 979 | DRILL PIPE | TUBING baffle - 971' | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING 8'
DISPLACEMENT 5.62 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 136 sks 50/50 Pozmix cement w/ 2% gel & 1/4# Floseal per sk, cement to surface, flushed pump clean, pumped 2½" rubber plug to baffle w/ 5.62 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

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	979'	casing footage		—
5407	minimum	Ton mileage		368.00
5502C	2 hrs	80 Vac		180.00
1124	136 sks	50/50 Pozmix cement		1564.00
1118B	428 #	Premium Gel		94.16
1107	34 #	Floseal		83.98
4402	1	2½" rubber plug		29.50
		7.375%	SALES TAX	130.66
			ESTIMATED TOTAL	3461.30

Revin 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 form.