

BEFORE THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS

In the Matter of the Application of ST Petroleum,)	19-CONS-3154-CWLE
Inc., for Multiple Well Location exceptions to the)	Docket No. 18-CONS-3154-CWLE
standard drilling unit for the Infill Wells pursuant to)	License No. 34586
K.A.R. 82-3-207(b) on Exceptions for Wells Upon)	Conservation Division
the Thomas A Lease Located in Section 29,)	
Township 14 South, Range 22 East in Johnson)	
County, Kansas)	

APPLICATION

ST Petroleum, Inc., ("ST Petroleum"), by and through its counsel, Keith A. Brock, Anderson & Byrd, LLP, hereby moves the Kansas Corporation Commission ("Commission") for multiple well location exceptions for wells upon the Thomas A Leases located in Section 29, Township 14 South, Range 22 East in Johnson County, Kansas. In support of this Application, ST Petroleum states as follows:

1. ST Petroleum is a corporation duly authorized to do business within the State of Kansas, with its correct mailing address being 18800 Sunflower Rd., Edgerton, KS 66021.
2. ST Petroleum is the operator of the following oil and gas lease relevant to this Application:

THOMAS A LEASE

Dated: September 1, 2011
Recorded: Book 201112, Page 004517
Lessors: Thomas Enterprises, Inc. of Kansas and Joel A. Thomas, Jeanne Thomas Smith and James H. Thomas, Co-Trustees of the Howard Thomas Living Trust dated August 23, 2005
Lessee: ST Petroleum, Inc.
Description: Tract I: All of the Northeast Quarter (NE/4) of Section 29, Township 14, Range 22, in Johnson County, Kansas, except the following described property: Beginning at a point on the North line of the Northeast 1/4 of said Section 29, and 1395 feet West of the Northeast corner thereof, as measured along said North line; thence Westerly, along the North line of the Northeast 1/4 of said Section 29, a distance of 235 feet; thence Southernly, along a line perpendicular to the North line of the Northeast 1/4 of said Section 29, a distance of 310 feet;

thence Easterly, along a line perpendicular to the last described course, a distance of 235 feet; thence Northerly, along a line perpendicular to the last described course, a distance of 310 feet to the point of beginning.

Tract II: The part of the Northeast 1/4 of Section 29, Township 14, Range 22, in Johnson County, Kansas, described as follows: Beginning at a point on the North line of the Northeast 1/4 of said Section 29, and 1395 feet West of the Northeast corner thereof, as measured along said North line; thence Westerly, along the North line of the Northeast 1/4 of said Section 29, a distance of 235 feet; thence Southerly, along a line perpendicular to the North line of the Northeast 1/4 of said Section 29, a distance of 310 feet; thence Easterly, along a line perpendicular to the last described course, a distance of 235 feet; thence Northerly, along a line perpendicular to the last described course, a distance of 310 feet to the point of beginning.

(the "Thomas A Lease")

3. ST Petroleum has drilled four oil wells on the Thomas A Lease, i.e. the Thomas A #1-A, Thomas 2-A, Thomas 3-A and Thomas 4-A wells (the "Infill Wells"), all of which were drilled to a total depth of less than 2,000 feet. All of the Infill Wells were drilled on less than the standard drilling unit for such wells of 2.5 acres. The Well Completion Forms for these four Infill Wells showing the location of said wells are attached hereto as Exhibit 'A.' None of the Infill Wells are located closer than 206 feet from the nearest lease or unit boundary line.

4. ST Petroleum requests an order approving the location of the Infill Wells. Due to the nature and characteristics of the producing formation beneath the Leases and also the viscosity of the oil found therein, it is necessary for the oil wells drilled on the Leases to be located closer than 560 feet apart in order to efficiently produce the oil reserves therefrom without committing waste. Therefore, ST Petroleum requests exceptions to the standard drilling unit for the Infill Wells pursuant to K.A.R. 82-3-207(b) in order to prevent waste.

5. The existing producing wells located in the Southern most row of the Thomas A Lease

are located approximately 560 feet apart and cannot adequately drain the area between said wells without also producing from the Infill Wells. Thus waste will occur if the Infill Wells are not allowed to produce. If the Infill Wells are authorized the wells in the Southern most row of the Thomas A Lease will be located approximately 280 feet apart.

6. Counsel for ST Petroleum recently contacted the operator of the neighboring lease nearest the Infill Wells, i.e. D&Z Exploration, Inc., to inquire whether D&Z Exploration, Inc., had any objection to ST Petroleum applying for this well location exception in order to produce from the Infill Wells. D&Z Exploration, Inc., confirmed that it had no objection to ST Petroleum obtaining well location exceptions for the Infill Wells and producing from said wells.

7. The granting of this Application will prevent waste and will not violate correlative rights.

8. The well locations for Infill Wells are depicted on the maps accompanying this Application and marked as Exhibit 'B.'

9. None of the Infill Wells are located closer than 165 feet from the lease boundary lines as required by K.A.R. 82-3-108(b).

10. There are no offset operators whose lease line is located less than the distance required by K.A.R. 82-3-108(b) from the Infill Wells.

11. There are no unleased offset mineral owners whose property boundary is located less than the minimum distance required by K.A.R. 82-3-108(b) from the Infill Wells.

12. ST Petroleum does not operate any lease that will be situated less than the minimum distance required by K.A.R. 82-3-108(b) from the Infill Wells.

13. Each of the Infill Wells will have 1.7 acres attributable to said well.

14. ST Petroleum requests an allowable of 100 bbls of oil per day from each of the Infill Wells.

15. The accompanying documents required by K.A.R. 82-3-108(e) are enclosed herewith.

16. Notice of this Application for well location exceptions will be published once in both The Wichita Eagle newspaper and The Olathe News a newspaper in Johnson County, Kansas.

WHEREFORE, ST Petroleum prays for an order granting exceptions to the standard drilling unit for the Infill Wells pursuant to K.A.R. 82-3-207(b).



Keith A. Brock #24130
ANDERSON & BYRD, LLP
216 S. Hickory, P. O. Box 17
Ottawa, Kansas 66067
(785) 242-1234, telephone
(785) 242-1279, facsimile
kbrock@andersonbyrd.com
Attorneys for Applicant

VERIFICATION

STATE OF KANSAS)
) ss:
COUNTY OF FRANKLIN)

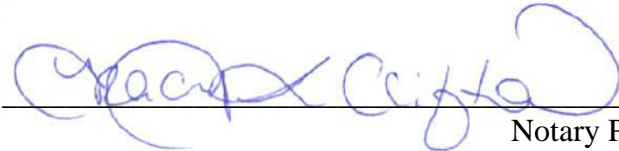
Keith A. Brock, of lawful age, being first duly sworn on oath, states: That he is the attorney for the Applicant named above, and is duly authorized to make this affidavit; that he has read the foregoing Application, knows the contents thereof; and that the facts set forth therein are true and correct to the best of his knowledge, information and belief.



Keith A. Brock

SUBSCRIBED AND SWORN to before me this 19th day of October, 2018.





Notary Public

Appointment/Commission Expires:

EXHIBIT A

KANSAS CORPORATION COMMISSION 1149287
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 # 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:

- ☒ 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 #:

6/10/2013	6/11/2013	6/11/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24162-00-00
Spot Description:
SE SW NE Sec. 29 Twp. 14 S. R. 22 ☒ East ☐ West
2805 Feet from ☐ North / ☒ South Line of Section
2100 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- ☐ NE ☐ NW ☒ SE ☐ SW

County: Johnson
Lease Name: Thomas A Well #: 1-A
Field Name: Gardner South

Producing Formation: Bartlesville
Elevation: Ground: 1016 Kelly Bushing: 0
Total Depth: 918 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 21 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: 21 w/ 7 sx cm.

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:
☒ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution
ALT ☐ I ☒ II ☐ III Approved by: Deanna Garrison Date: 07/05/2013

1149287

Operator Name: ST Petroleum, Inc. Lease Name: Thomas A Well #: 1-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	21	Portland	7	50/50 POZ
Completion	5.6250	2.8750	8	894	Portland	116	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	848-856	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	_____ _____

Johnson County, KS
Well: Thomas A-1
Lease Owner: ST Petroleum

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

Commenced Spudding:
9/30/2011

WELL LOG

Thickness of Strata	Formation	Total Depth
0-15	Soil/Clay	15
13	Shale	28
27	Lime	55
11	Shale	66
8	Lime	74
7	Shale	81
21	Lime	102
14	Shale	116
25	Lime	141
5	Shale	146
53	Lime	199
19	Shale	218
9	Lime	227
20	Shale	247
6	Lime	253
6	Shale	259
8	Lime	267
44	Shale	311
24	Lime	335
6	Shale	341
28	Lime	369
2	Shale	371
5	Lime	376
5	Shale	381
6	Lime	387
181	Shale	568
15	Lime	583
12	Shale	595
5	Lime	600
4	Shale	604
9	Lime	613
23	Shale	636
5	Lime	641
75	Shale	714
10	Sand	724
113	Shale	837
2	Sand	839
5	Sand	844
74	Shale	918-TD

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times .14 \times h$

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 - SPMxRxR over RPM

SPM - RPMxD over RxR

R - RPMxD over SPMxD

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. 1-A

Farm Thomas A

KS Johnson
(State) (County)

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

For ST Petroleum inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

CASING AND TUBING RECORD

Thickness of Strata	Formation	Total Depth	Remarks
0-26	soil-clay	26	
9	shale	35	
8	lime	43	
4	shale	47	
15	lime	62	
11	shale	73	
8	lime	81	
7	shale	88	
20	lime	108	
18	shale	126	
21	lime	147	
6	shale	153	
53	lime	206	
19	shale	225	
9	lime	234	
7	shale	241	
2	sandy lime	243	
7	sand	250	grey - no oil
3	shale	253	
6	lime	259	
7	shale	266	
7	lime	273	
33	shale	306	
2	lime	308	
9	shale	317	
25	lime	342	
8	shale	350	

350

Thickness of Strata	Formation	Total Depth	Remarks
24	Lime	374	
4	shale	378	
3	Lime	381	
5	shale	386	
7	Lime	393	Herthq
29	shale	422	
18	sand	440	no oil
73	shale	513	
7	sand	520	no oil
46	shale	566	
3	Lime	569	
12	shale	581	
6	Lime	587	
15	shale	602	
3	Lime	605	
5	shale	610	
5	Lime	615	
46	shale	661	
6	sand	667	no oil
56	shale	723	
10	sand & shale	733	odor - slight slow
6	sandy shale	739	
105	shale	844	
3	sand	847	no oil
8	sand	855	good show - perf
65	sandy shale	920	TD



**FIELD TICKET & TREATMENT REPORT
CEMENT**

TICKET NUMBER 41987
LOCATION Ottawa KS
FOREMAN Fred Mader

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-11-13	7532	Thomas # 1-A	NE 29	14	22	JO
CUSTOMER			TRUCK #			
ST Petroleum			DRIVER			
MAILING ADDRESS			TRUCK #			
18800 Sunflower			DRIVER			
CITY	STATE	ZIP CODE				
Edgerton	KS	66028				

JOB TYPE <u>Long string</u>	HOLE SIZE _____	HOLE DEPTH <u>920</u>	CASING SIZE & WEIGHT <u>2 3/4 EUE</u>
CASING DEPTH <u>894</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>2 1/2" ply</u>
DISPLACEMENT <u>5.2 BBL</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>5 BPM</u>

REMARKS: Hold crew meeting. Establish pump rate. Mix + Pump 100# Gel Flush. Mix + Pump 116 SKS 50/50 Per Mix Cement 2 3/4" Gel 1/4" Flo Seal/sk. Cement to surface. Flush pump + lines clean. Displace 2 3/4" Rubber plug to casing TD. Pressure to 800# PSI. Release pressure to set Float Valve. Shut in Casing.

Tos Drilling. Wesley Dallard

[illegible]

Bayn 3737

AUTHORIZATION

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.

KANSAS CORPORATION COMMISSION 1149291
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 # 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:

- ☒ 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 #:

6/11/2013	6/12/2013	6/12/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24163-00-00
Spot Description:
SE SE SW NE Sec. 29 Twp. 14 S. R. 22 ☒ East ☐ West
2839 Feet from ☐ North / ☒ South Line of Section
1572 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- ☐ NE ☐ NW ☒ SE ☐ SW

County: Johnson
Lease Name: Thomas A Well #: 2-A
Field Name: Gardner South

Producing Formation: Bartlesville
Elevation: Ground: 1014 Kelly Bushing: 0
Total Depth: 920 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 22 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: 22 w/ 7 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:
☒ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution
ALT ☐ I ☒ II ☐ III Approved by: Deanna Garrison Date: 07/05/2013

1149291

Operator Name: ST Petroleum, Inc. Lease Name: Thomas A Well #: 2-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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: GammaRay/Neutron/CCL	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>GammaRay</td> <td></td> <td></td> </tr> </table>	Name	Top	Datum	GammaRay		
Name	Top	Datum					
GammaRay							

CASING RECORD <input checked="" 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
Surface	9	7	10	22	Portland	7	50/50 POZ
Surface	5.6250	2.8750	8	892	Portland	120	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	848-858	2" DML RTG	10

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Johnson County, KS
Well: Thomas A 2-A
Lease Owner: ST Petroleum

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

Commenced Spudding:
6/11/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-20	Soil-Clay	20
16	Shale	36
6	Lime	42
2	Shale	44
17	Lime	61
11	Shale	72
8	Lime	80
7	Shale	87
20	Lime	107
14	Shale	121
23	Lime	144
6	Shale	150
54	Lime	204
20	Shale	224
9	Lime	233
19	Shale	252
7	Lime	259
6	Shale	265
8	Lime	273
32	Shale	305
2	Lime	307
9	Shale	316
25	Lime	341
8	Shale	349
25	Lime	374
3	Shale	377
3	Lime	380
5	Shale	385
7	Lime	392
31	Shale	423
17	Sand	440
72	Shale	512
6	Sand	518
49	Shale	567
2	Lime	569
12	Shale	581
5	Lime	586
16	Shale	602
3	Lime	605
6	Shale	611

Commenced Spudding:
6/11/2013

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times 14 \times h$

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 - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times d$

R - $RPM \times D$ over $SPM \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. 2-A

Farm Thomas A

KS Johnson
(State) (County)

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

For ST Petroleum inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

2 sacks
11 hrs

CASING AND TUBING RECORD

10" Set	_____	10" Pulled	_____
8" Set	_____	8" Pulled	_____
6" Set	22	6" Pulled	_____
4" Set	_____	4" Pulled	_____
2" Set	_____	2" Pulled	_____

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
2-20	Soil-clay	20	
16	Shale	36	
6	Lime	42	
2	Shale	44	
17	Lime	61	
11	Shale	72	
8	Lime	80	
7	Shale	87	
20	Lime	107	
14	Shale	121	
23	Lime	144	
6	Shale	150	
54	Lime	204	
20	Shale	224	
9	Lime	233	
19	Shale	252	
7	Lime	259	
6	Shale	265	
8	Lime	273	
32	Shale	305	
2	Lime	307	
9	Shale	316	
25	Lime	341	
8	Shale	349	
25	Lime	374	
3	Shale	377	
3	Lime	380	

[illegible]



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

259597

TICKET NUMBER 41928

LOCATION *Alhambra, KS*

FOREMAN Casey, Kennedy

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/12/13	7532	Thomas A # 2-A	NE 29	14	22	JO
CUSTOMER ST Petroleum						
MAILING ADDRESS 18800 Sunflower Rd						
CITY Edgerton	STATE KS	ZIP CODE 66021	TRUCK # 481	DRIVER Corken	TRUCK #	DRIVER
			666	Garloo		
			491	Jerxus		
			675	Kei Dot		

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 920' CASING SIZE & WEIGHT 2 7/8" EUE

CASING DEPTH 892' DRILL PIPE _____ TUBING bellie - 884' OTHER _____

SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 8'

DISPLACEMENT 5.12 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 50/50 Pozmix Cement w/ 2% gel + 1/4# Floerol per sk, cement to surface, flushed pump, clean pumped 2 1/2" rubber plug to baffle w/ 5.12 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

[illegible]

Bayin 3737

AUTHORIZATION

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.

KANSAS CORPORATION COMMISSION 1149293
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 # 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:

- ☒ 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 #:

6/12/2013 6/13/2013 6/13/2013
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-091-24164-00-00

Spot Description:

SW SW SE NE Sec. 29 Twp. 14 S. R. 22 ☒ East ☐ West

2841 Feet from ☐ North / ☒ South Line of Section

1018 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☒ SE ☐ SW

County: Johnson

Lease Name: Thomas A Well #: 3-A

Field Name: Gardner South

Producing Formation: Bartlesville

Elevation: Ground: 1034 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 ☒ 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:
☒ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution
ALT ☐ I ☒ II ☐ III Approved by: Deanna Garrison Date: 07/05/2013

1149293

Operator Name: ST Petroleum, Inc. Lease Name: Thomas A Well #: 3-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	925	Portland	120	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	878-888	2" DML RTG	10

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. ☐ Commingled
 (Submit ACO-5) ☐ Other (Specify) _____
 (Submit ACO-4)

PRODUCTION INTERVAL:

Johnson County, KS
Well: Thomas A 3-A
Lease Owner: ST Petroleum

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

Commenced Spudding:
6/12/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-45	Soil-Clay	45
19	Shale	64
4	Lime	68
2	Shale	70
17	Lime	87
10	Shale	97
8	Lime	105
8	Shale	113
21	Lime	134
18	Shale	152
17	Lime	169
8	Shale	177
55	Lime	232
20	Shale	252
8	Lime	260
21	Shale	281
6	Lime	287
5	Shale	292
7	Lime	299
33	Shale	332
2	Lime	334
10	Shale	344
25	Lime	369
7	Shale	376
25	Lime	401
4	Shale	405
3	Lime	408
5	Shale	413
7	Lime	420
30	Shale	450
20	Sand	470
69	Shale	539
6	Sand	545
57	Shale	602
3	Lime	605
3	Shale	608
6	Lime	614
17	Shale	631
2	Lime	633
6	Shale	639

Commenced Spudding:
6/12/2013

Short Cuts

TANK CAPACITY

BBL'S. (42 gal.) equals $D^2 \times .14 \times h$

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals $BPH \times PSI \times .0004$

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 - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times d$

R - $RPM \times D$ over $SPM \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. 3-A

Farm Thomas A

KS Johnson
(State) (County)

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

For ST Petroleum inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Thomas A Johnson County
 KS State; Well No. 3-A
 Elevation 1033
 Commenced Spuding June 12 2013
 Finished Drilling June 13 2013
 Driller's Name Wesley Dollard
 Driller's Name
 Driller's Name
 Tool Dresser's Name Ryan Ward
 Tool Dresser's Name Brandon Stone
 Tool Dresser's Name
 Contractor's Name TOS
 29 14 22

(Section) (Township) (Range)

Distance from S line, 2805 ft.

Distance from E line, 1000 ft.

2 sacks

9 hrs

CASING AND TUBING RECORD

10" Set	_____	10" Pulled	_____
8" Set	_____	8" Pulled	_____
7 3/4" Set	23 _____	6 3/4" Pulled	_____
4" Set	_____	4" Pulled	_____
2" Set	_____	2" Pulled	_____

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-45	Soil - clay	45	
19	shale	64	
4	lime	68	
2	shale	70	
17	lime	87	
10	shale	97	
8	lime	105	
8	shale	113	
21	lime	134	
18	shale	152	
17	lime	169	
8	shale	177	
55	lime	232	
20	shale	252	
8	lime	260	
21	shale	281	
6	lime	287	
5	shale	292	
7	lime	299	
33	shale	332	
2	lime	334	
10	shale	344	
25	lime	369	
7	shale	376	
25	lime	401	
4	shale	405	
3	lime	408	

408

Thickness of Strata	Formation	Total Depth	Remarks
5	Shale	413	
7	Lime	420	
30	shale	450	Hertha
20	sand	470	
69	shale	539	no Oil
6	sand	545	
57	shale	602	no Oil
3	Lime	605	
3	shale	608	
6	Lime	614	
17	shale	631	
2	Lime	633	
6	shale	639	
4	Lime	643	
4	shale	647	
1	Lime	648	
36	shale	684	
22	sand	706	no Oil
50	shale	756	
14	sandy shale	770	
93	shale	863	
3	sand	866	no Oil
11	shale	877	
11	sand	888	
52	sandy shale	940	Oil - good show TD



FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 42020
LOCATION Ottawa
FOREMAN Alan Mader

DATE	CUSTOMER #	WELI. NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-13-13	7532	Thomas A 3-A	NE 29	14	22	JO
CUSTOMER						
ST Petroleum						
MAILING ADDRESS						
18800 Sunflower						
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
Edgeton	KS	66021	516	Ala. Mar		
			368	Art. McD		
			370	Ken. Car		
			510	Set. Inc		

JOB TYPE <u>long string</u>	HOLE SIZE <u>13 5/8</u>	HOLE DEPTH <u>940</u>	CASING SIZE & WEIGHT <u>2 7/8</u>
CASING DEPTH <u>925</u>	DRILL PIPE _____	TUBING _____	OTHER <u>917 baffle</u>
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>yes</u>
DISPLACEMENT <u>3 1/3</u>	DISPLACEMENT PSI <u>800</u>	MIX PSI <u>200</u>	RATE <u>4 bpm</u>
REMARKS: <u>Hooked to casing. Estg blished rate. Mixal & pumped 100# gel followed by 120 sk 50150 cem plus 20 gel & 1/4 flaseal per sack. Circulated cement. Flushed pump. Pumped plug to casing baffle. Well held 800 PSI. Set float, closed valve.</u>			

TDS 4/23

Alan Made

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1085.00
5406	30	MILEAGE	368	126.00
5402	925'	casing footage	368	-
5407	min	ten miles	510	368 ¹⁰
5502L	2	80 gal	370	180.00
1124	120	50/50 cement		1380.00
1118B	302#	gr 1		66.44
1107	30	flo seql		74.10
4402	1	2 1/2 plug		29.50
			SALES TAX	116.105

Rayno 3737

SALES TAX	116.65
ESTIMATED TOTAL	3425.69

AUTHORIZATION

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.

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:

- ☒ 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 #: _____

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

API No. 15 - 15-091-24165-00-00

Spot Description: _____

SW SE NE Sec. 29 Twp. 14 S. R. 22 ☒ East ☐ West

2845 Feet from ☐ North / ☒ South Line of Section

455 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- ☐ NE ☐ NW ☒ 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 ☒ 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: _____
☒ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution
ALT ☐ I ☒ II ☐ III Approved by: Deanna Garrison Date: 07/05/2013

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. ☐ Commingled
 (Submit ACO-5) (Submit ACO-4)
☐ Other (Specify) _____

PRODUCTION INTERVAL:

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

Commenced Spudding:
6/13/2013

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times .14 \times h$

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 - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times d$

R - $RPM \times D$ over $SPM \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. 4-A

Farm Thomas A

KS Johnson
(State) (County)

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

For ST Petroleum inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Thomas A Farm: Johnson County

KS State; Wall No. 4-A

Elevation 1027

Commenced Spuding June 13, 2013

Finished Drilling June 14 2013

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 14 22

(Section) (Township) (Range)

Distance from 5 line, 2805 ft

Distance from E line, 450 ft.

2 weeks
10 hrs

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 3/4" Set 23 6 1/4" Pulled

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-40	So. l- clay	40	
18	Shale	58	
4	Lime	62	
4	Shale	66	
17	Lime	83	
10	Shale	93	
9	Lime	102	
8	Shale	110	
14	Lime	124	
17	Shale	141	
20	Lime	161	
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	
33	shale	450	Heitha
14	sand	464	
69	shale	533	no oil
7	sand	540	
44	shale	584	no oil
5	lime	589	
12	shale	601	
6	lime	607	
16	shale	623	
3	lime	626	
6	shale	632	
4	lime	636	
63	shale	700	
12	sand	712	
39	shale	751	no oil
10	sand	761	
12	sandy shale	773	some shale - no oil
98	shale	871	
10	sand	881	
52	sandy shale	933	good odor - poor show TD



FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 41998
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

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	Cashen		
			6466	Garcia		
			558	Wilmet		
			675	Kei Dot		

JOB TYPE <u>1000' 200'</u>	HOLE SIZE <u>5 5/8"</u>	HOLE DEPTH <u>940'</u>	CASING SIZE & WEIGHT <u>2 7/8" EUE</u>
CASING DEPTH <u>927</u>	DRILL PIPE _____	TUBING <u>8 1/2" - 919'</u>	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING _____
DISPLACEMENT <u>5.32 bbl/s</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>4.5 bpm</u>

REMARKS: Hold safety, meeting, established circulation mixed & pumped 200 # Premium Gel followed by 10 flats fresh water, mixed & pumped 117 lbs 50/50 Pozmix cement w/ 2 1/2 gal + 1/4 # Floseal per sk, cement to surface, flushed pump down, pumped 2 1/2" 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 *

[illegible]

AUTHORIZATION [Signature] 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.

EXHIBIT B

