### BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

)	19-CONS-3154-CWLE
)	Docket No. 18-CONS-3154-CWLE
)	License No. 34586
)	Conservation Division
)	
)	
	) ) ) ) )

#### **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 <u>The Wichita Eagle</u> newspaper and <u>The Olathe News</u> 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 - State of Kansas
TRACY L. CLIFTON
My Appt. Exp. (0-16-20

Notary Public

Appointment/Commission Expires:

# EXHIBIT A



Kansas Corporation Commission Oil & Gas Conservation Division 1149287

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	API No. 15 - 15-091-24162-00-00
Name: ST Petroleum, Inc.	Spot Description:
Address 1: 18800 Sunflower Rd	SE_SW_SW_NE Sec. 29 Twp. 14 S. R. 22  East West
Address 2:	
City: Edgerton State: KS Zip: 66021 +	2100 Feet from 🗹 East / 🗌 West Line of Section
Contact Person: Rick Singleton	Footages Calculated from Nearest Outside Section Corner:
Phone: ( 913 ) 980-5036	□ NE □ NW 🗹 SE □ SW
CONTRACTOR: License # 33715	County: Johnson
Name: Town Oilfield Service	Lease Name: Well #: Well #:
Wellsite Geologist: NA	Field Name: Gardner South
Purchaser:	Producing Formation: Bartlesville
Designate Type of Completion:	Elevation: Ground: 1016 Kelly Bushing: 0
✓ New Well	Total Depth: 918 Plug Back Total Depth:
☑ Oil □ WSW □ SWD □ SIOW	Amount of Surface Pipe Set and Cemented at: 21 Fee
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ✔ No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	
Cathodic Other (Core, Expl., etc.):	If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	feet depth to: 21 w/ 7 sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Chloride content: 1500 ppm Fluid volume: 80 bbls
Conv. to GSW	Dewatering method used: Evaporated
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	
SWD Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R
GSW Permit #:	County: Permit #:
6/10/2013 6/11/2013 6/11/2013	
Spud Date or Date Reached TD Completion Date or Recompletion Date	

#### **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 MI Approved by: Deanna Garrison Date: 07/05/2013

Side Two

1149287

Operator Name: ST	Petroleum, Inc.		Lease Name:	Thomas A		. Well #:1-	Α	<del></del>
Sec. 29 Twp. 14	s. R. <u>22</u>	✓ East ☐ West	County: Joh	nson				
time tool open and clo	osed, flowing and sh es if gas to surface t	nd base of formations pe ut-in pressures, whether est, along with final chart Il well site report.	shut-in pressure re	ached static level	, hydrostatic press	sures, bottom	hole tempe	erature, fluid
Drill Stem Tests Taker (Attach Additional		☐ Yes ☑ No		Log Formation	on (Top), Depth an	d Datum	□s	ample
Samples Sent to Geo	logical Survey	☐ Yes 🔽 No		me imaRay		Тор	D	atum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	•	Yes No Yes No Yes No	Jan					
List All E. Logs Run:								
GammaRay/Neutro	n/CCL							
			*****	New Used	***** ***			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	-conductor, surface, i  Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type a	nd Percent
Surface	9	7	10	21	Portland	7	50/50 P	OZ
Completion	5.6250	2.8750	8	894	Portland	116	50/50 P	OZ
		ADDITIONA	AL CEMENTING / S	DIJEEZE RECORI	<u> </u>			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used			Percent Additive	5	
Protect Casing Plug Back TD Plug Off Zone	-							
Shots Per Foot		TON RECORD - Bridge Plur Footage of Each Interval Pe			acture, Shot, Cemen		ord	Depth
3	848-856	Problage of Each filterval Pe	en lorated	2" DML RT		nonsi Osooy		8
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or E	NHR. Producing Me	ethod:	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf V	/ater	Bbls.	Gas-Oil Ratio		Gravity
DISPOSITI	ION OF GAS:		METHOD OF COMP	PLETION:		PRODUCT	ION INTERV	/AL:
Vented Sok		Open Hole			ommingled bmit ACO-4)			
(If vented, Su	ıbmit ACO-18.)	Other (Specify)						

Johnson County, KS Town Oilfield Service, Inc. Commenced Spudding: Well: Thomas A-1 (913) 837-8400 9/30/2011

Lease Owner: ST Petroleum

#### 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<sup>2</sup>x.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:

WATTS = AMPS

746 WATTS equal 1 HP

# Log Book

Well No	1-A	
Farm	homas A	
(State)	ن کی	(County)
(Section)	(Township)	(Range)
For <u>57</u>	Petroleum (Well Owner)	inc

# Town Oilfield Services, Inc.

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

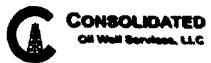
Dicore 2.20 John 10-13 rick singleton - 200 Thomas A Farm: Johnson county CASING AND TUBING MEASUREMENTS Feet Feet Feet Ir 1016 Wesley Dollard Driller's Name Driller's Name Tool Dresser's Name Ryan Ward

Tool Dresser's Name Brandon Stone Tool Dresser's Name \_ TUS Contractor's Name \_ (Range) (Section) (Township) 2805 \_ line, \_ Distance from \_\_\_ 2100 \_ line, \_ Distance from \_\_\_ 2 sacks 10 his CASING AND TUBING RECORD 10" Set \_\_\_\_\_\_ 10" Pulled \_\_\_ 8" Pulled \_ 8" Set \_ 21 78%" Set \_\_ 61/4" Pulled \_ 4" Pulled \_ 2" Pulled \_

-1-

Thickness of Strata	Formation	Total Depth	Remarks
D- 210	50:1- Clay	26	Kemano
9	Shale!	35	
8	Lime	43	
4	Shale	47	
15	Lime	62 73	
1!	5491-6	7.3	
<del>8</del>	Lime	181	
	She -	88	
20	Limit	108	
18	Shale	126	
31	Lime	147	
53	Strate	153	
53	Lime	206	
19	shale	225	
<u> </u>	Lime	234	
	Shale	241	
<u> </u>	sandy limit	243	
	sand	250 253	giey - no Oil
3	Shalt		
نا 7	Lime	259	
	Shale	266	
7	Lime	273	
33	Shale	304	
	Lime	30%	
4	Shale	3/7	
25	Lime	342	
<u> </u>	5hal-e	350	

Thickness of Strata	Formation	Total Depth	Remarks
24	Lime	374	DET STATE OF
4	5hs1-	378	
	Limit	381	The state of the s
5	Shale	356	
	Lime	393	Hertha
29 18	shalt.	422	
18		440	no Cil
73	Shalt	513	710 611
73	sand	520	no Dil
46	Shale	566	7.0 01
46	Lime	569	A STATE OF THE STA
12	Shale	581	ALL AND
15	Lime	587	113 - 114 - 114 - 115 -
15	shell-e	602	Table Trade V. Redition
3	Shalt Lime	605	
5	Shal-e	610	
5	Line	615	
46	shale	661	
6	Sand	667	no Oil
56	shale.	723	
10	sand & state	733	odor - Slight Slow
6	soudy shelp	739	
105	shale	844	
3 8	sanel	847	ne Cil
8	sano(	855	good show perf
65	sandy state	920	76
			140



259552

LOCATION O Howa KS
FOREMAN Fred Made

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

### FIELD TICKET & TREATMENT REPORT

020 -01 0210	V. 500 401 001			CEMEN	4)			
DATE	CUSTOMER#	WEL	I. NAME & NÚM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
6-11-13 CUSTOMER	7537	Taomo	s */-	A	NE 29	14	22	Jo
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S 7	Pertro	leum		4	TRUCK#	DRIVER	TRUCK #	DRIVER
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CITY / 8 8	<u>00 20</u>	STATE	ZIP CODE	_}	495	Harber		
		1			319	Day Mas		
Edger		K2	66077	ļ	510	Sex Tuc		
JOB TYPE LO	7	HOLE SIZE		HOLE DEPTI	<u> 920.</u>	CASING SIZE & V	VEIGHT_27€	EUF
CASING DEPTH		DRILL PIPE		_TUBING			OTHER	
SLURRY WEIGH		SLURRY VOL_		WATER gal/s	k	CEMENT LEFT In	CASING コル	1' P/x
DISPLACEMENT		DISPLACEMENT		MIX PSI		RATE S BP	<i>α</i> Δ	<b>~</b>
REMARKS: /	ld crew	W. Kum	Esto 6	رينم محال	no val.	Mix + Pun	2 100 4 (41	Flush
-m	+ Pump	116 58	30/50	Por mix	Coment &	2% Cel 44	Flo Spalls	k.
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						Ludyn	a 1	
Tos	Drilling	. West.	Dallar	<u></u>		V		
<del></del>	8	· · · · · · · · · · · · · · · · · · ·	0		-		·	
ACCOUNT CODE	QUANITY	or UNITS	DE	SCRIPTION of	SERVICES or PRO	DDUCT	UNIT PRICE	TOTAL
5401		1	PUMP CHARG	E		495		108500
5406		30 mi	MILEAGE			495		12600
5402		<del>हिंग</del>	Cas.he	Foo You	8			NC
5407	Minim	LDM		Milos		510		36800
22056		2 hr		Bh Vac	Trock	369		18000
								,,,,
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1124	1	16 5KS	50/50 /	Por Mix	Coment			13340
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1107		عر <del>ا*</del>	Flo Se					6 y 9ºº
4402		<u> </u>		ubbor Pl				2950

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.



Kansas Corporation Commission Oil & Gas Conservation Division 1149291

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	3		API No. 15 - 15-091-24163-00-00
Name: ST Petroleum, inc.			Spot Description:
Address 1: 18800 Sunflower R	kd		SE_SE_SW_NE Sec. 29 Twp. 14 S. R. 22 F East West
Address 2:			2839 Feet from North / South Line of Section
City: Edgerton S	tate: KS Zir	:66021+	Feet from 🗹 East / West Line of Section
Contact Person: Rick Singleton	n		Footages Calculated from Nearest Outside Section Corner:
Phone: ()980-5036			□ NE □ NW ☑ SE □ SW
CONTRACTOR: License #_337	15		County: Johnson
Name: Town Oilfield Service			Lease Name: Thomas A Well #: 2-A
Wellsite Geologist: NA			Field Name: Gardner South
Purchaser:			Producing Formation: Bartlesville
Designate Type of Completion:			Elevation: Ground: 1014 Kelly Bushing: 0
✓ New Well	:-Entry [	Workover	Total Depth: 920 Plug Back Total Depth:
☑ Oil ☐ WSW	SWD	SIOW	Amount of Surface Pipe Set and Cemented at: 22 Feet
∐ Gas	☐ ENHR	∐ SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
CM (Coal Bed Methane)	☐ GSW	Temp. Abd.	If yes, show depth set: Feet
Cathodic Other (Con	e Evel etc.):		If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well In			feet depth to: 22 w/ 7 sx cmt
•			
Operator:			Drilling Fluid Management Plan
Well Name;			(Data must be collected from the Reserve Pit)
Original Comp. Date:	· <u>-</u> ·		Chloride content: 1500 ppm Fluid volume: 80 bbls
Deepening Re-perf		ENHR Conv. to SWD	Dewatering method used: Evaporated
Dive Beels	Conv. to		Location of Suid discount to be also detailed.
Plug Back:	_	•	Location of fluid disposal if hauled offsite:
Dual Completion			Operator Name:
SWD			Lease Name: License #:
SWB			Quarter Sec TwpS. R East West
GSW	Permit #:		County: Permit #:
6/11/2013 6/12/20		6/12/2013	
	ached TD	Completion Date or Recompletion Date	

#### **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 I II Approved by: Desnna Garrison Date: 07/05/2013

Side Two

1149291

Operator Name: Ot	Petroleum, Inc.		Lease	Name: _	rnomas A		_ Well #: <del>2-</del>	<u> </u>	
Sec. 29 Twp.14	s. r. <u>22</u>	☑ East ☐ We	est County	<sub>/:</sub> <u>John</u>	son				
INSTRUCTIONS: Shottime tool open and clo recovery, and flow rate ine Logs surveyed. A	sed, flowing and shues if gas to surface to	ut-in pressures, wh est, along with fina	ether shut-in pres	sure rea	ched static level	, hydrostatic pres	sures, bottom	hole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional S		☐ Yes 🔽	] No	L.	og Formatio	on (Top), Depth a	nd Datum		Sample
Samples Sent to Geol	ogical Survey	☐ Yes 🔽	] No	Nam Gamm			Тор	ĺ	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy		✓ Yes	No No No						
List All E. Logs Run:									
GammaRay/Neutror	n/CCL								
			CASING RECORD	✓ Ne	_	tion, etc.		<del></del>	
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.	g Wei	ght	Setting Depth	Type of Cement	# Sacks Used		and Percent
Surface	9	7	10		22	Portland	7	50/50	POZ
Surface	5.6250	2.8750	8		892	Portland	120	50/50	POZ
Purpose:  —— Perforate  —— Protect Casing  —— Plug Back TD  —— Plug Off Zone	Depth Top Bottom	ADDI	TIONAL CEMENTI ent # Sack		JEEZE RECORD		Percent Additive	s	
Shots Per Foot		ION RECORD - Bri Footage of Each Into				acture, Shot, Cemer		ord	Depth
3	848-858				2" DML RT	3			10
TURNO DEGODO	C:	C-A AA	Postor	<b></b>	Liner Run:				
TUBING RECORD:	Size:	Set At:	Packer A	AL:	Linei Ruii.	Yes No	י		
Date of First, Resumed	Production, SWD or El		cing Method:	ng [	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wat	ter I	3bls.	Gas-Oil Ratio		Gravity
DISPOSITIO		Open Ho			y Comp. 🔲 Co	ommingled bmit ACO-4)	PRODUCT	ION INTER	VAL:

Johnson County, KS Well: Thomas A 2-A (913) 837-8400 Commenced Spudding: 6/11/2013

Lease Owner: ST Petroleum

#### 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

Well: Thomas A 2-A

Johnson County, KS Town Oilfield Service, Inc. Commenced Spudding:

(913) 837-8400

Lease Owner: ST Petroleum

6/11/2013

4	Lime	615
45	Shale	660
7	Sand	667
61	Shale	728
18		
	Sand	746
99	Shale	845
13	Sand	858
62	Shale	920-TD
	<u></u>	

### **Short Cuts**

TANK CAPACITY

BBLS. (42 gal.) equals D2x.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:

WATTS = AMPS

746 WATTS equal 1 HP

# Log Book

Farm Thomas For ST Petroleum inc

### **Town Oilfield** Services, Inc.

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

	-4 NC 11	2.00LT 7.	ログ・フィバス
	June 15 -	Sudy is	il - Longstr
Thomas A Farmi Johnson Comm		/	3711
Thomas A Farm: Johnson County  K. S. State; Well No. 2-4	CASING A	ND TUBING MEAS	UREMENTS
Elevation 1018  Commenced Spuding June 11 2013  Finished Drilling June 12 2013  Driller's Name Marshy Dollard	Feet In.	Feet In.	Feet In
Commenced Spuding Sune 11 2013	884.2	Ba4-1	2
Finished Drilling June 12 20 13	0020	- $           -$	
Driller's Name Westy Dollard	8922	+1000	07/
Driller's Name			~ /<
Driller's Name			1-7-
Tool Dresser's Name Ryan Ward Tool Dresser's Name Brandon Stene			
Tool Dresser's Name Brandon Stene			
Tool Dresser's Name			
Contractor's Name 705			
29 14 22			· · · · · · · · · · · · · · · · · · ·
(Section) (Township) (Range)			
Distance from			
2 50cks 11 hrs			
il he			
CASING AND TUBING			
RECORD			
10" Set 10" Pulled			
8" Set 8" Pulled		_	
76%" Set 22 6%" Pulled			
4" Set 4" Pulled			
2" 2"			

-1-

Thickness of	<b>C</b>	Total	- <del></del>
Strata	Formation	Depth	Remarks
<u> ウ-Ro</u>	Soil-clay	20	
160	So, 1-clay Shalel Lime	36	
- Q	Lime	42	
2	Shale	44	
17	Lime	61	
11	5/5/4	72	
<u> </u>	Lime	<b>%</b> 0	
	shabe	<b>%</b> 7	
20	Lime	107	
14	Shalo		
23	Lime Shale	144	
6	Shale	150	
54	Lime Shale	304	
20	Shalt	224	
9	lime	233	
19	Shele	252	
フ	line	259	
Lo	Shale	265	
ති	Lime Shale	273	
32	5hale	305	
7 9	Lime	367	
9	Shale	316	
25	Lime	341	
	shale	349	
25	Lime	374	
.3	Shale	377	,
	Limit	380	

380 Thickness of Total Formation Strata Depth Remarks Shale 385 Limit Hertha 3/ 3hale 440 Shale 512 6 Sand 011 no shale Lime Shale Lime 586 16 5441-e 602 605 6 611 Lime 615 Shal-10 60 C Sind 667 No Shale 61 50mg Sand 746 9 shale <del>४</del> 5**8** Shale 920

-4-



LOCATION Glown KS

FOREMAN Caser Frunedy

	nanute, KS 667: or 800-467-8676	40	LD HCKE	CEMEN	imenikep T	UK!		•
DATE	CUSTOMER#	WELL	NAME & NUME	BER	SECTION	TOWNSHIP	RANGE	COUNTY
CUSTOMER	7532	Thomas	A # 2-1	4	NE 29	14	22	<u>ರ</u> ಂ
57	Petroleu	**			TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	SS			]	481	Carken		
18800	Sunflow	oc Rd		ļ	666	Gartioo		
CITY		STATE	ZIP CODE	]	491	Jerxus		
Edgerto	n	KS	66021	}	675	Kei Det		
JOB TYPE (O		HOLE SIZE	55/a"	HOLE DEPTH		CASING SIZE & V	VEIGHT 27/	E" EUE
CASING DEPTH	8920	DRILL PIPE		TUBING be	<del>191e - 884</del>		OTHER	
SLURRY WEIGH	IT	SLURRY VOL_		WATER gal/s	:k	CEMENT LEFT IN		
DISPLACEMENT	5.12 668	DISPLACEMEN	T PSI	MIX PSI		RATE 4.5 6	pen	<del></del>
REMARKS: he	ld solder	moeting.	ostablishe	dercuta	tion mix	ed townser	1 200 #	Promium
Gel follo.	red bari	obble fre	osh wate	- Mixe	d tour	sed s	cs 50/50	toznúx
Cernent 4	2/ 270 00	1 + /4+	Florece	per sk	, ceinent	to surface	e Auto	م وليدع
	woed 2	1/2 " rubbo!	eroly to	s baffle	w/ 5.12	blos frast	water	2/05sured
to 800	PSI sel	ased pses	iste she	ot in c	asing.			<i>t</i>
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						()	'	<del></del>
			· <del></del>					<del></del>
CODE	QUANITY	or UNITS	<b></b>		SERVICES or PR	RODUCT	UNIT PRICE	TOTAL
5401			PUMP CHARG	E	<del> </del>		<b></b>	1082.00
5406	50 1	121	MILEAGE	77				126.00
5402	872'		asing	toolage	<u></u>		ļ	
5407	Minim	un	tonin	ileage_				368.00
2200	2	VS	80 0	ac		<del></del>	<b>}</b>	180.00
						·	ļ	<u> </u>
			7-7					
1124	120	Ster	9/50 P	zuin ?	cement		<u></u>	1380.00
11183	402	#	Premio	n Gol				88.44
1107	30	共	Floses	<u>l</u>				74.10
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0 2727	l	A	<u> </u>			<del></del>	SALES TAX	118.31
Ravin 3737							ESTIMATED TOTAL	3449.35
AUTHORIZTION	/ fine	With		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 OIL & GAS CONSERVATION DIVISION

1149293

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	API No. 15 - 15-091-24164-00-00
Name:ST Petroleum, Inc.	Spot Description:
Address 1: 18800 Sunflower Rd	SW_SW_SE_NE Sec. 29 Twp. 14 S. R. 22 Fast West
Address 2:	2841 Feet from North / South Line of Section
City: Edgerton State: KS Zip: 66021 +	Feet from
Contact Person: Rick Singleton	Footages Calculated from Nearest Outside Section Corner:
Phone: ( 913 ) 980-5036	□ NE □ NW ☑ SE □ SW
CONTRACTOR: License #_ 33715	County: Johnson
Name:Town Oilfield Service	Lease Name: Thomas A Well #: 3-A
Wellsite Geologist: NA	Field Name: Gardner South
Purchaser:	Producing Formation: Bartlesville
Designate Type of Completion:	Elevation: Ground: 1034 Kelly Bushing: 0
✓ New Well Re-Entry Workover	Total Depth: 940 Plug Back Total Depth:
☑ Oil ☐ wsw ☐ swd ☐ slow	Amount of Surface Pipe Set and Cemented at: 23 Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used?
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to: 23 w/ 2 sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Sheid Management Dlan
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 1500 ppm Fluid volume: 80 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	
☐ Conv. to GSW	Dewatering method used: Evaporated
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	
ENHR Permit #:	Quarter Sec TwpS. R
GSW Permit #:	County: Permit #:
6/12/2013 6/13/2013 6/13/2013	
Spud Date or Date Reached TD Completion Date or Recompletion Date	

#### **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				
Confidential Release Date:				
<ul><li>✓ Wireline Log Received</li><li>☐ Geologist Report Received</li></ul>				
UIC Distribution  ALT ☐ I ✓ II ☐ III Approved by: Deanna Garrison Date: 07/05/2013				

Side Two

1149293

Operator Name: ST	Petroleum, Inc.			Lease I	Name: _	I homas A		Well #:3-/	4	
Sec. 29 Twp. 14	s. R. <u>22</u>	✓ East	West	County	: John	son				
INSTRUCTIONS: Shi time tool open and clo recovery, and flow rate line Logs surveyed. A	sed, flowing and shues if gas to surface to	ıt-in pressu est, along w	res, whether s vith final chart(	hut-in press	sure read	ched static level,	hydrostatic press	ures, bottom l	nole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional S		Ye	s 🗹 No		L	og Formation	n (Top), Depth and			Sample
Samples Sent to Geol	logical Survey	Ye	s 🔽 No		Nam Gamm			Тор	(	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy	•	Ye Ye	s 🗌 No							
List All E. Logs Run:										
GammaRay/Neutro	n/CCL									
		Pana		RECORD	✓ Ne	w Used	on oto			
Purpose of String	Size Hole Drilled	Size	e Casing (In O.D.)	Weig	ght	Setting Depth	Type of Cement	# Sacks Used		and Percent
Surface	9	7	(111 (0.0.)	10	FL.	23	Portland	2	50/50 1	
Completion	5.6250	2.8750		8		925	Portland	120	50/50	POZ
			ADDITIONAL	CEMENTIN	NG / SOL	JEEZE RECORD			1	
Purpose:Perforate	Depth Top Bottom	Туре	of Cement	# Sacks			Type and P	ercent Additives	<b>S</b>	
Protect Casing Plug Back TD Plug Off Zone	-				····					
Shots Per Foot			D - Bridge Plug ach Interval Per				cture, Shot, Cement		rd	Depth
3	878-888					2" DML RTG	i			10
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:	Yes No		· · · · · · · · · · · · · · · · · · ·	
Date of First, Resumed	Production, SWD or EN	IHŘ.	Producing Met	hod:	ıg 🗌	Gas Lift C	ther (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er Bl	bls. C	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		i	METHOD OF	COMPL	ETION:		PRODUCTI	ON INTER	VAL:
Vented Sold	Used on Lease		open Hole [	Perf.	Dually (Submit :		nmingled mit ACO-4)			

Johnson County, KS Town Oilfield Service, Inc. Commenced Spudding: 6/12/2013

Lease Owner: ST Petroleum

#### 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

Johnson County, KS Well: Thomas A 3-A

### Town Oilfield Service, Inc. Commenced Spudding: 6/12/2013

Lease Owner: ST Petroleum

	··	
4	Lime	643
4	Shale	647
1	Lime	648
36	Shale	684
22	Sand	706
50	Shale	756
14	Sandy Shale	770
93	Shale	863
3	Sand	866
11	Shale	877
11	Sand	888
		940-TD
52	Sandy Shale	940-10
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	1	
	<del> </del>	

### **Short Cuts**

TANK CAPACITY

BBLS. (42 gal.) equals D<sup>2</sup>x.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

WATTS = AMPS

TO FIGURE AMPS:

VOLTS

746 WATTS equal 1 HP

## Log Book

Well No	<u>- A</u>	
Farm_The	mas A	
KS	Je	husou
(State)		(County)
29	14	22
(Section)	(Township)	(Range)
For ST	Petaleum	inc
	(Well Owner)	

### **Town Oilfield** Services, Inc.

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

Judy-June 12-1151 Surface Brooke June 13-1140 Longstriv

Thomas A Farm: Johnson County  State; Well No. 3-A	CASING AN	D TUBING MEAS	UREMENTS	
State; Well No.	Feet In.	Feet In.	Feet	ln.
Elevation 1033	916-8	Bell	-4	
Commenced Spuding John 120 13	7765			<del></del>
Commenced Spuding June 13 20 13 Finished Drilling 20 13	924.8	F/067		
Driller's Name WESLE- Dellard		1/04		
Driller's Name			2/	
Driller's Name			7	17
Tool Dresser's Name Pyrin Ward				
Tool Dresser's Name Brandon Storne				
Tool Dresser's Name				
Contractor's Name				
29 14 72				
(Section) (Township) (Range)				
Distance from 5 line, 2865 ft.				
Distance fromEline,1000ft.				
2 Sicks				
9 hrs				
CASING AND TUBING				
RECORD				
·				
10" Set 10" Pulled				
e" Set 8" Pulled				
7 %" Set 23 6%" Pulled				
4" Set 4" Pulled				
2" Set 2" Pulled		1		
		-1-		

Thickness of	Formation	Total -	
Strata		Depth	Remarks
0-45	50:1 - clay	45	
19	soil -clay   shale	64	
4	Lime	68	
	Shale	70	
17	Lime	87	
10	Shale		
8 8	Lime	105	·
8	Shale Lime Shale Lime	113	
21 193	Lime	134	
145	Shell-E	152	
17	Lim e	169	
<del>- 3</del>	Shale	177	
55	Line	232	
20	Shale	252	
8	Lime	360	Margar 19 (19 (19 (19 (19 (19 (19 (19 (19 (19
21	Shale	2%।	V 1 W 100 M
6	Lime	237	The state of the s
5	Shale	292	
7	Lime Shale	249	we in the control of
33	Shale	33汉	
70	Lime	334	
10	Shale	344	
25	Lime	369	
7	Shal-e	376	
25	Lime	401	
4	shale	405	
	Lime	408	

4	<u></u> 0.	<u> </u>	

		703	<u>-</u>
Thickness of Strata	Formation	Total Depth	Remarks
<i>5</i>	Shale	413	
	Lime	420	Hertha
30	Shalz	450	Titling
20	sanc\	470	no Oil
69	Shale	539	no Oil
<u> </u>	Sand	545	ne Oil
57	shal-e	602	ne Oil
3	Lime	605	
3	shale	608	
(c	Limit	614	
17	Shale	631	
2	Lime	633	
le	shale	639	
4	Lime	643	
_ 4	5hal-e	647	
	Lime	649	
34	Shal-e	664	
22	sand	706	no Di
<u>5</u> ℃	shal-e	156	
14	sindy shale	770	
93	Shale	863	
	sand	866.	NO DI
11	Shale	877	
	sauch	888	Cil- good shoul
52	sandy shale	940	TD good show
			•
	1	· ·	



25969C

ticket number 42020 LOCATION Offaug FOREMAN Alan Mader

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

### FIELD TICKET & TREATMENT REPORT CEMENT

18800 Sunt OWEN  CITY STATE ZIP CODE  LOGGE ton KS 66021  JOB TYPE ONG STATE ZIP CODE  JOB TYPE ONG STATE  CASING DEPTH 940 CASING SIZE & WEIGHT 2 /8  CASING DEPTH 935 DRILL PIPE TUBING OTHER 917 bat  SLURRY WEIGHT SLURRY VOL WATER GRI/SK CEMENT LEFT IN CASING 1/CS  DISPLACEMENT 3 /3 DISPLACEMENT PSI 800 MIX PSI 200 RATE 400 MIX
CUSTOMER PETOLEUM  MALING ADDRESS  18800 Sun Flower  STATE  STATE  STATE  STATE  STORE  STORE
MAILING ADDRESS  18800 Sunflower  STATE SUPCODE  LITY TO STATE SUPCODE  STATE SUPCODE  CASING DEPTH 715 HOLE SIZE 5 5 8 HOLE DEPTH 9 40 CASING SIZE & WEIGHT 2 8 SIZE SUPCODE  SLURRY WEIGHT SLURRY VOL  DISPLACEMENT 5 1/3 DISPLACEMENT PSI 800 MIX PSI 200 RATE 9 60 MIX AS PLANERS: HOOKED 12 CASING EGG DISPLACEMENT PSI 800 MIX PSI 200 RATE 9 60 MIX AS PLANERS: HOOKED 12 CASING EGG DISPLACEMENT PSI 800 MIX PSI 200 RATE 9 60 MIX AS PLANERS: HOOKED 12 CASING EGG DISPLACEMENT PSI 800 MIX PSI 200 RATE 9 60 MIX AS PLANERS: HOOKED 12 CASING DEPTH 9 60 MIX AS PLANERS: HOOKED 12 CASING DEPTH 9 60 MIX AS PLANERS POLICE OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  ACCOUNT CODE QUANTY OF UNITS
MARING ADDRESS \[ \begin{array}{c c c c c c c c c c c c c c c c c c c
GTY GER LONG STATE LIP CODE LIP CAR STOCK LIP LONG STATE LIP CODE LIP LONG STATE LIP LIP LONG STATE LIP LIP LONG STATE LIP
GTY GER LONG STATE LIP CODE LIP CAR STOCK LIP LONG STATE LIP CODE LIP LONG STATE LIP LIP LONG STATE LIP LIP LONG STATE LIP
JOB TYPE DUGSTY S. HOLE SIZE 5 8 HOLE DEPTH 940 CASING SIZE & WEIGHT 2 8 CASING DEPTH 940 CASING SIZE & WEIGHT 2 8 DRILL PIPE TUBING OTHER 917 BGF SLURRY WEIGHT 3 73 DISPLACEMENT PS 800 MIX PS 300 RATE 4 40 MIX PS 300 RATE 5 40 MIX PS 300 RATE 5 5 6 MIX PS 300 RATE 5 5 6 MIX PS 300 RATE 5 MIX PS 300 RATE
ACCOUNT CODE QUANTTY OF UNITS DESCRIPTION of SERVICES OF PRODUCT UNIT PRICE TOTAL STOCK ST
CASING DEPTH 925 DRILL PIPE TUBING OTHER 917 bat SLURRY WEIGHT SLURRY VOL WATER GAI/Sk CEMENT LEFT IN CASING 1/CS DISPLACEMENT 3 /3 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bp m  REMARKS: HOOK PS 10 CASING. E6tg 01: Shed rate. M: Kal +  PLAMPED LOOTE SOL FOIL COME SACK. C: CULTATED COME PLUS 20 SE DI M Flored Plus to Casing Carre  Flushed Punt Sol Flored Plus to Casing Carre  NEID 800 PST. Set Florat, Closed Valve.  ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  SHOL 30 MILEAGE 368 126  5401 925' Casing footage 368 126  5407 Min ten Miles 510 3858  5502( 2 925' Casing footage 368 -  5407 Min ten Miles 510 3868  1124  1124 120 50150 Cement 138  1138 302# ST. 105-64  1107 30 Flored 744.
SLURRY WEIGHT  SLURRY VOL  WATER GALLY  DISPLACEMENT 3 /3 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 /2 m  REMARKS: HOOKED to CASSUS. Established rate. Mixal +  PRIMARED LOOK SQL to Housed by 120 sk 50/50 cern  PLUS 270 SCL to Hy flosed plus to Cassus Carner  Flushed hump hymped plus to Cassus Carner  NELD 800 PST. Sch float, Closed rate.  ACCOUNT CODE QUANTY or UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  SHOLL 30 MILEAGE 368 126  570 2 925' Cassus footage 368 126  570 1 120 50/50 cernest 138  1134 120 50/50 cernest 138  1138 302# ST. Sch 105eql 74.
REMARKS: HOOKED to castus. Established rate. Mixal +  Phimped 100# spl followed by 120 sk 50150 cern  Plus 270 sel + VM floseal plus 5gck. Circulated come  Flushed pump flumped plus to casins battle, we  held 800 PST. Set float, Closed walke  TOS Was  ACCOUNT CODE  ACCOUNT QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  1401   PUMP CHARGE 368 126  3406 30 MILEAGE 368 126  5407 Min Miles 368 5002 368  5502( 2 80 Val. 570 160  1124 120 50150 Cement 1380  1138 302# gr. 165eq.  1107 30 floseal 74.
100   100   50   followed by 120 9   50   50   6   6   6   6   6   6   6   6   6
100   100   50   100   50   100   50   5
Flushed Dimp   Pamped Plus to Casing battle   We held 800 PST. Set float   Closed walke   We held 800 PST. Set float   Company   Closed   Company   Comp
TOS W/65
ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  \$401   PUMP CHARGE 368 1085  \$706   30 mileage 368 126  \$707   925'   Casias footage 368 -  5707   Min Miles 510 368  \$55026   2 80 UGG 570 160  \$188   302#   GG    \$107   30   Flosegi 744.
ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  \$401
ACCOUNT CODE QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  \$ 401
ACCOUNT CODE QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTA  \$ 401
## 100   PUMP CHARGE   31-8   1085   3400   30   MILEAGE   368   126   3700   30   MILEAGE   368   126   368   5407   Min   Miles   510   368   5502C   2   80   Uac   370   160   160   118B   302#   350   566   107   30   505eqt   74.
## 100   PUMP CHARGE   31-8   1085   3400   30   MILEAGE   368   126   3700   30   MILEAGE   368   126   368   5407   Min   Miles   510   368   5502C   2   80   Uac   370   160   160   118B   302#   350   566   107   30   505eqt   74.
## 100   PUMP CHARGE   31-8   1085   3400   30   MILEAGE   368   126   3700   30   MILEAGE   368   126   368   5407   Min   Miles   510   368   5502C   2   80   Uac   370   160   160   118B   302#   350   566   107   30   505eqt   74.
100   1085   1
3406 30 MILEAGE 368 126 5702 925' Casins footage 368 - 5707 Min ten miles 510 368 5502C 2 80 Uac 570 660 1124 120 50150 Cenest 1380 118B 302# GF1 1107 30 flosed 74.
5407 Min ten miles 510 388 5502C 2 80 ugc 570 460 1/24 120 50/50 Cenest 1380 1/18B 302# GF 66 1/107 30 Floseal 74.
5407 Min ten miles 510 388 5502C 2 80 ugc 570 460 1/24 120 50/50 Cenest 1380 1/18B 302# GFL 66 1/107 30 Floseal 74.
5502( 2 80 vac 570 60 1/24 120 50/50 cenest 1380 1/18B 302# gr.l 66 1/07 30 flosed 74.
1/24 120 50/50 cenest 1380 1118B 302# Gr. 1 66 1107 30 flosed 74.
1118B 302# Gr. 66.
1118B 302# gr   66.
1118B 302# gr   66.
1107 30 floseal 74.
SALES TAX 116.0
ESTIMATED 2
TOTAL 347

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 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	API No. 15
Name: ST Petroleum, Inc.	Spot Description:
Address 1: 18800 Sunflower Rd	SW_SE_SE_NE_Sec. 29 Twp. 14 S. R. 22 Fast West
Address 2:	_2845 Feet from North / 🗹 South Line of Section
City: Edgerton State: KS Zip: 66021 +	455 Feet from 🗹 East / 🗌 West Line of Section
Contact Person: Rick Singleton	Footages Calculated from Nearest Outside Section Corner:
Phone: ( 913 ) 980-5036	□ NE □ NW 🗹 SE □ SW
CONTRACTOR: License # 33715	County: Johnson
Name:Town Oilfield Service	Lease Name: Thomas A Well #: 4-A
Wellsite Geologist: NA	Field Name: Gardner South
Purchaser:	Producing Formation: Bartlesville
Designate Type of Completion:	Elevation: Ground: 1029 Kelly Bushing: 0
✓ New Weil Re-Entry Workover	Total Depth: 940 Plug Back Total Depth:
☑ Oil ☐ wsw ☐ swd ☐ slow	Amount of Surface Pipe Set and Cemented at: 23 Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used? Yes V No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to: 23 sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 1500 ppm Fluid volume: 80 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Dewatering method used: Evaporated
Conv. to GSW	Dewatering metriod used.
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec. Twp. S. R. East West
ENHR Permit #:	
GSW Permit #:	County: Permit #:
6/13/2013 6/14/2013 6/14/2013	
Spud Date or Date Reached TD Completion Date or Recompletion Date	

#### **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 III Approved by: Described Date: 07/05/2013				

Side Two

1149294

Operator Name: ST Petroleum, Inc.				Lease Name: I nomas A Well #: 4-A					
Sec. 29 Twp. 14	s. R. <u>22</u>	☑ East ☐ West	County:	John	son				
time tool open and clo	osed, flowing and sh es if gas to surface t	nd base of formations pe ut-in pressures, whether est, along with final char al well site report.	shut-in press	sure rea	ched static level,	hydrostatic pres	sures, bottom	hole temp	erature, fluid
Drill Stem Tests Taker		☐ Yes 🕝 No		L	og Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	Yes No		Nam Gamm	_		Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	· · · · · · · · · · · · · · · · · · ·	Yes No Yes No Yes No Yes No		Gairin	iai vay				
List All E. Logs Run:									
GammaRay/Neutro	n/CCL								
. ,,,,	<del></del>	CASING	G RECORD	✓ Ne	ew Used				
	Size Hole	Report all strings set	t-conductor, sur Weig		ermediate, producti Setting	on, etc. Type of	# Sacks	Type	and Percent
Purpose of String	Drilled	Set (In O.D.)	Lbs./		Depth	Cement	Used		and reicent
Surface	9	7	10		23	Portland	2	50/50	POZ
Completion	5.6250	2.8750	8		927	Portland	117	50/50	POZ
		ADDITIONA	AL CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose: Depth Type of Cement Top Bottom			# Sacks	Used		Type and	Percent Additive	s	
Protect Casing Plug Back TD Plug Off Zone	-								<del></del>
		J.,							
Shots Per Foot	Shots Per Foot PERFORATION RECORD - Bridge Plugs Set/T Specify Footage of Each Interval Perforated					cture, Shot, Cemer nount and Kind of M		rd	Depth
3 878-886					2" DML RTG	<u> </u>			8
						<del></del>			
TUBING RECORD:	Size:	Set At:	Packer At:		Liner Run:	Yes □ No	· · · · · · · · · · · · · · · · · · ·		
Date of First, Resumed	Production, SWD or E	NHR. Producing Me	ethod:	g []	Gas Lift C	ther (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf	Wat	er Bi	bls.	Gas-Oil Ratio		Gravity
	011.05.615			001		I	5555		
	ON OF GAS:	Open Hole	METHOD OF			nmingled	PRODUCTI	ON INTER	VAL:
Vented Solo	d Used on Lease bmit ACO-18.)	Other (Specific)		(Submit		mit ACO-4)			

Johnson County, KS
Well: Thomas A 4-A
(913) 837-8400

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

Commenced Spudding:
6/13/2013

Lease Owner: ST Petroleum

#### 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

Well: Thomas A 4-A

Johnson County, KS Town Oilfield Service, Inc. Commenced Spudding:

(913) 837-8400

6/13/2013

Lease Owner: ST Petroleum

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
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### **Short Cuts**

TANK CAPACITY

BBLS. (42 gal.) equals D2x.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

WATTS = AMPS

TO FIGURE AMPS:

**VOLTS** 

746 WATTS equal 1 HP

# Log Book

Well No	4-,4	
Farm_T\	omas A	
(State)	Ĺ	County)
29	14	ねる
(Section)	(Township)	(Range)
For <u>57</u>	Petrolevan (Well Owner)	inc
	(AAGII OMIIGI)	

### **Town Oilfield** Services, Inc.

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

2" Pulled \_\_\_\_\_

-1-

2" Set \_\_\_\_\_\_

Thickness of	Formation	Total	·
Strata		Depth	Remarks
C-40	50.1- clay	40	
15	shale/	58	
4	1.m.t	5% 62	
4	ろんんしゃ	66	-
_ /7	Lime	66 83 93 102	,
10	shale	93	<del></del>
9	Lime	102	
B	5halt	110	
14(	Limi-e	129	
17	Shiely	146	
20	Lime	166 173	
7	5441-4	173	
55	Lime	22%	
スセ	Shale	244	
8 20	Lime	256	
20	Shalt	276	
4	Lime	232 237	
6	Sixte	2 %%	
8	Lime	296	
34	shale	330	
1	Lime	331	
10	Lime	341	
25	c.me	366	
8	Shale	374	
24	Lime	398	
4	5hal <del>e</del>	402	
4	Lime	400	1,1116
	-2-		

		406	
Thickness of Strata	Formation	Total Depth	Remarks
-5	Shale	411	TO THE TOTAL OF TH
4	Lime	417	Hertha
33	shal-e	450	FIFT
14	Sand	168	he Oil
69	shal-e	537	76 01
7	sind	544	no Oil
4%	shale	592	716 (2)
5	Line	597	
/入	5hal-c	609	
<u>(c)</u>	Lime	615	
14	shal-e	631	
	Lime	634	
عا ـــــــ	shelt	640	
4	Lime	644	
63	Shale	107	
<u>ル</u>	sand	719	no Oil
39	Shale	75%	
10	zind	768	some shale - no Oil
	Sindy Stale	7%0	
98	shele	878	
10	sand	888	good odor - poor show
<u>52</u>	sandy shabe	740	子り
	· · · · · · · · · · · · · · · · · · ·		
		-	
	м		
	Title		

-4-



TICKET NUMBER\_ LOCATION Officer KS
FOREMAN Cason Kenned

	hanute, KS <b>66</b> 7: or 800-467-8676		CEME				
DATE	CUSTOMER#	WELL NAME & N	UMBER	SECTION	TOWNSHIP	RANGE	COUNT
6/14/13	7532	Thomas A #	4-1	NE 29	14	22	JO
CUSTOMER	Petroleum	aluc	<b>[</b>	TRUCK #	DRIVER	TRUCK#	DRIVE
VAILING ADDR	ESS	1816		481	Casken	11.00.(#	ORIVER
188	100 Sun	Hower Rd	li .	ldele	Gacheo		
CITY	1	STATE ZIP CODE		822	Wilket		
Edgen	ton	KS 6609	u	675	KeiDot		
OB TYPE	west ing	HOLE SIZE 55/8"	HOLE DEF		CASING SIZE & W	EIGHT 278	<b>EUF</b>
ASING DEPTH	427	DRILL PIPE	TUBING	6afffe-919		OTHER	
LURRY WEIGH	17	SLURRY VOL	WATER go	sl/sk	CEMENT LEFT in	CASING	
HSPLACEMEN	1 2.33 PAR	DISPLACEMENT PSI	MIX PSI		RATE 4.5 60	m	
remarks: Lo	ld sately	meeting of oblide	d circul	Sian wixed	tarned	200 # Pro	un term
ial tollow	red by	10 blots tresh u	sater in	cixed + pe	117 Beau	#s 50/5	2 Pozu
rement,				-, coment		e, Auded	
down, a	suped 2	12" rubber plug	to baffle	w/ 5.32	blobs troop	water pro	Zund
_ റ്റവ	751', Celect	sad pressure Toh	utin ca	sing.			
		<u> </u>					
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. 6 . 1	\	0					
idly help	geswill	tor 30 win MI	<u> </u>			<del>//</del>	<u> </u>

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401		PUMP CHARGE		1085.00
5406	30 mi	MILEAGE		126.00
5402	927'	casing too tage		
5407	minimum	ton vilocoe		36,00
5502c	2 hrs	80 Vac		180.00
1124	117 des	5950 Poznix cement		1345.50
11183	397 #	Promium Gel		87.34
1167	29 -#			71.63
4402		Floogle dug		29.50
Ravin 3737		7.5.	SALES TAX	115.43
C1G941 G7J7			ESTIMATED TOTAL	3408.40
AUTHORIZTION	d/fryteto-	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

# EXHIBIT B

