



KANSAS CORPORATION COMMISSION 1082682
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 # 33734
Name: Hat Drilling LLC
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 #: _____
5/17/2012 5/18/2012 5/18/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-091-23663-00-00
Spot Description: _____
NW SE NE NE Sec. 29 Twp. 14 S. R. 22 East West
4455 Feet from North / South Line of Section
450 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 #: I-31
Field Name: Gardner South
Producing Formation: Bartlesville
Elevation: Ground: 1032 Kelly Bushing: 0
Total Depth: 960 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/ 3 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: Dianne Garber Date: 06/06/2012



1082682

Operator Name: ST Petroleum, Inc. Lease Name: Thomas A Well #: I-31
 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 Name Top Datum GammaRay
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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	3	50/50 POZ
Completion	5.6250	2.8750	8	933	Portland	124	50/50 POZ

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
		2" DML RTG	

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8678

TICKET NUMBER 39773
LOCATION Ottawa KS
FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/18/12	7532	Thomas # I-31	NE 29	14	22	JO
CUSTOMER S T Petroleum		TRUCK #		DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 18800 Sunflower Rd		506		FREMAD	Safety King	
CITY Edgerton	STATE KS	ZIP CODE 66021	666		GARMON	GM
		675		KEI DET	KD	
		558		RYASIN	RS	

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 960 CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 933 DRILL PIPE Bottle TUBING 923' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 2 1/2 Ply + 10'
 DISPLACEMENT 5.37 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Establish pump rate. Mix Pump 100* Gal Flush. Mix + Pump
5ks 50/50 for mix cement 2 1/2 gal 4" Flo Seal/sk. Cement to
surface Flush pump + lines clean. Displace 2 1/2" Rubber
plug to casing Baffle - Pressure to 800* PSI. Hold &
Monitor pressure for 30 min MIT. Release pressure
to set float valve. Shut in casing.

Fred Maden

TOS Drilling - Chad.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	666	1030 ⁰⁰
5406	30mi	MILEAGE	666	120 ⁰⁰
5402	933	Casing footage		NIC
5407	minimum	Ton Miles	558	250 ⁰⁰
5502C	2 hrs	80 BBL Vac Truck	675	100 ⁰⁰
1124	1243145	50/50 Por Mix Cement		1357 ⁸⁰
1118B	309**	Premium Gel		648 ⁸⁰
1107	31**	Flo Seal		22 ⁸⁰
4402	1	2 1/2" Rubber plug		25 ⁸⁰
			7.525%	SALES TAX
				ESTIMATED
				TOTAL
				11464
				3318 ¹⁸

SCANNED

Rev 3737

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.

Johnson County, KS
Well: Thomas A 1-31
Lease Owner: ST Petroleum

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

Commenced Spudding:
5/17/2012

WELL LOG

Thickness of Strata	Formation	Total Depth
12	Soil-Clay	12
8	Sandstone	20
45	Shale	65
6	Lime	71
3	Shale	74
16	Lime	90
8	Shale	98
9	Lime	107
7	Shale	114
18	Lime	132
15	Shale	147
20	Lime	167
7	Shale	174
56	Lime	230
23	Shale	253
8	Lime	261
19	Shale	280
10	Lime	290
4	Shale	294
7	Lime	301
44	Shale	345
25	Lime	370
6	Shale	376
24	Lime	400
4	Shale	404
4	Lime	408
5	Shale	413
7	Lime	420
34	Shale	454
11	Sand	465
9	Sandy Shale	474
124	Shale	598
2	Lime	600
5	Shale	605
6	Lime	611
13	Shale	624
2	Lime	626
13	Shale	639
4	Lime	643
120	Shale	763

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals $D^2 \times 1.4 \times h$
D equals diameter in foot.
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. 1-31

Farm Thomas A

KS Johnson
(State) (County)

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

For ST Petroleum
(Well Owner)

Town Oilfield Services, Inc.

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

Thickness of Strata	Formation	Total Depth	Remarks
12	oil/clay	12	
8	amuletone	20	
45	shale	65	
6	Lime	71	
3	shale	74	
16	Lime	90	
8	shale	98	
9	Lime	107	
7	shale	114	
18	Lime	132	
15	shale	147	
20	Lime	167	
7	shale	174	
56	Lime	230	
23	shale	253	
8	Lime	261	
19	shale	280	
10	Lime	290	
4	shale	294	
7	Lime	301	
44	shale	345	
25	Lime	370	
6	shale	376	
24	Lime	400	
4	shale	404	
4	Lime	408	
5	shale	413	

Thickness of Strata	Formation	Total Depth	Remarks
		413	
7	Lime	420	
34	shale	454	
11	sand	465	
9	sandy shale	474	
124	shale	598	
2	Lime	600	
5	shale	605	
6	Lime	611	
13	shale	624	
2	Lime	626	
13	shale	639	
4	Lime	643	
120	shale	763	665 - 668 bedded
11	sand	774	
104	shale	878	
2	sand	880	5% oil
3	sand	883	no oil
2	sand	885	10% - 20% slight red & black
2	sand	887	50% - 60%
3	sandy shale	890	no oil
3	sand	893	no oil g. core ?
2	sandy shale	895	2%
65	shale	960	TD