

#### Kansas Corporation Commission Oil & Gas Conservation Division

1163015

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet  Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet  If Alternate II completion, cement circulated from: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls  Dewatering method 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 #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or Recompletion Date  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 II Approved by: Date:

Side Two



Operator Name:				_ Lease N	lame:			Well #:		
Sec Twp	S. R	East	West	County:						
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressures, st, along with f	whether sh inal chart(s	nut-in press	ure reach	ed static level,	hydrostatic pres	ssures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taker (Attach Additional S		Yes	No		Log	y Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	Yes	No		Name			Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes Yes Yes	☐ No ☐ No ☐ No							
List All E. Logs Run:										
		Report all	CASING I		New	Used mediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weigi Lbs. /	ht	Setting Depth	Type of Cement	# Sacks Used	, ,,	and Percent dditives
		AI	DDITIONAL	CEMENTIN	G / SQUE	EZE RECORD				
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Co	ement	# Sacks	Used		Type and	Percent Additives		
Shots Per Foot	PERFORATI Specify I	ON RECORD - Footage of Each	Bridge Plugs Interval Perfo	s Set/Type orated			cture, Shot, Cemei mount and Kind of N		d 	Depth
TUBING RECORD:	Size:	Set At:		Packer At:		Liner Run:				
Date of First, Resumed	Production, SWD or EN		ducing Meth	od:		as Lift C	Yes No	0		
Estimated Production Per 24 Hours	Oil	Bbls.		Mcf	Water		ols.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	IETHOD OF	COMPLET	ION:		PRODUCTIO	ON INTER	VAL:
Vented Sold	Used on Lease	Open	Hole (Specify)	Perf.	Dually (		nmingled mit ACO-4)			

Johnson County, KS Well:thomas B 20

Town Oilfield Service, Inc. Commenced Spudding: 10-2-2013 10-2-2013

Lease Owner:ST Petroleum

### WELL LOG

Thickness of Strata	Formation	Total Depth
7	soil/clay	7
14	sand stone	21
68	shale	89
3	lime	92
4	shale	96
16	lime	112
7	shale	119
8	lime	127
7	shale	134
19	lime	153
11	shale	164
13	sandy shale and sand	177
28	lime	205
19	sandy shale and shale	224
8	lime	232
16	shale	248
21	lime	269
15	shale	284
8	lime	292
20	shale	312
6	lime	318
7	shale	325
7	lime	332
44	shale	376
24	lime	40
8	shale	408
24	lime	432
4	shale	436
4	lime	440
4	shale	444
6	lime	450
4	shale	454
6	sandy shale	460
99	shale	559
8	sandy shale	567
58	shale	625
5	lime	630
3	shale	633
2	lime	635
8	shale	643

# Johnson County, KS Well:thomas B 20 (913) 837-8400 Commenced Spudding: 10-2-2013

10-2-2013

Lease Owner:ST Petroleum

7	line	CEO
	lime	650
4	sand	654
2	sandy shale	656
9	shale	665
3	lime	668
2	coal	670
9	shale	679
6	lime and shale	685
20	shale	705
2	lime	707
3	shale	710
2	lime	712
6	shale	718
7	sand	725
3	sandy shale	728
58	shale	786
7	broken sand	793
5	sandy shale	798
14	shale	812
3	lime	815
9	shale	824
4	sand	828
13	shale	841
6	sand	847
3	sandy shale	850
10	shale	860
4	sand	864
2	sandy shale	866
34	shale	900
1	broken sand	901
1	sand	902
1	sandy lime	903
2	sand	905
1	sand	906
1	broken sand	907
1	broken sand	908
1	broken sand	909
1	broken sand	910
16	sand	926
10	sandy shale	936
44	shale	980-TD
· · · · · · · · · · · · · · · · · · ·	5.75.0	

## **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) + (D-d)2

\* Need these to figure belt length

WATTS = AMPS

TO FIGURE AMPS:

**VOLTS** 

746 WATTS equal 1 HP

# Log Book

Well No.	<u> </u>	
Farm	ias B	
<u>KS</u>	29	(County)
(State)		(County)
15	1,7	22
(Section)	(Township)	(Range)
For ST Pe	moleum	
	(Well Owner)	

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

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

Themas Brarm: Johnson County  XS State; Well No. 20	CASING AND TUBING MEASUREMENTS					
Elevation_YOS\	Feet	ln.	Feet	ln.	Feet	ln.
Commenced Spuding 10 2 2013						
Finished Drilling 30-3 20 13		1-1		$+ \parallel$		
Driller's Name Chat Weaver				+		
Driller's Name				+ +		
Driller's Name	···					
Tool Dresser's Name Cola Holam						
Tool Dresser's Name	u_					
Tool Dresser's Name						
Contractor's Name 105						
31 14 25						
(Section) (Township) (Range) _						
Distance from line,ft						
Distance from E line, 1501 ft.						
_						
_						
z-sacks						
CASING AND TUBING		2.				
RECORD	-				-	
10" Set 10" Pulled						
78" Set 22.8" 8" Pulled						
6¼" Set 6¼" Pulled						
A" Set A" Bulled						
4" Set 4" Pulled				_		
27/set 410.50 2" Pulled			-1-			
94070						

Thickness of	Xi.	Total	
Strata	Formation	Depth	Remarks
_ ~	50:1/dex	7	
14	send share	21	
68	shale	89	
	Line	92	-
¥	shale	96	
16	Lime	112	
7	shale	119	Davk
8	Lime	127	L)C(V Va
7	Shorte	134	
199	Lime	153	
- 11	shalo	ادلا	5
_13	sand dreleter	rrib	
28	Lime	205	Ř
79	and scholed whe	yo 534	As at
8	Lime	232	x
16	shale	248	х
21	Lime	700	As a S
	Shoules	784	*
8	Lime	3013	8 - 4
20	ancle	312	
	Lime	318	2
	shale	325	
	Lime	332	
- 44	shale	376	
24	Lime	100	
8	encle	408	1

433

Lime

		435	
Thickness of Strata	Formation	Total Depth	Remarks
1.4	shale	436	2
ч	Lime	140	
77	shale	1111	=
(-	Line	450	
P	shale	454	
	sondy should	460	
99	exale	559	
- 8	sandy shale	567	
58	elicite	625	
5	Lime	630	
- 3	shoule	(33	
2	Lime	CZŚ	
8	shale	543	9
7	Lime	650	9
4	sound	CSY	ve oil
2	sendy-shale	CSC.	VSG 193
9	shale	665	
3	Lime	668	
a_	0001	670	
<u> </u>	ahala	479	
6	Lime & shale	C85	
20	shale	705	cgo-red bed
2	Lime	767	15
2	shale	710	-
2	Lime	213	
<u> </u>	shale	718	
7	= c~ 6	725	odor, 1:44/e oil

-4--

-5-

Thickness of Strata  Strata  Formation  Depth  Depth  Remarks  SK  Shale  TKC  Throughout and TG3  Shale  SH  SH  Shale  SH  SH  SH  SH  SH  SH  SH  SH  SH  S			725	
SS Siche 786  7 Droken and 793 no no!  5 Sind shale 812  2 Line 815  9 Shale 824  13 Shale 841  10 Shale 860  11 Shale 900  11 Shale 900  12 Sand 900 Shal ok bleeding  11 Sand 900 Shal ok bleeding  11 Shalen and 900 Show of show of shall of shale 900  11 Shalen and 900 Show of show of show of shale 900  12 Shalen and 900 Show of show of show of show of shale 900  12 Shalen and 900 Show of show of show of shale 900 Show of show of shale 900 Show of show of shale 900 Show of shale 90		Formation	Total	Remarks
7 Droken and 793 no oil  5 Sandy shale 798  14 Shale 812  4 Sand 828 no oil  13 Shale 841  6 Sand shale 860  10 Shale 860  10 Shale 866  2 Sand shale 866  3 Inden and 901 206 al ader  1 Sand line 900  1 Sand 900 adid ok bleeding  1 Sand 906 366-201 all  1 Sand 906 366-201 all  1 Broken and 907 206 all  1 Broken and 907 206 all  1 Broken and 906 566-1096  1 Broken and 906 560-1096  1 Broken and 906 560-1096	-3	sandy shale	728	
5 Sond penale 798  14 Hale 812  3 Lime 815  4 Shale 824  4 Squad 828 no oil  3 Shale 841  6 Eand 847 no oil  3 Shale 860  4 Cand 860  4 Cand 860  5 Indee 860  10 Shale 900  11 Shale 900  12 Sand 900  13 Shale 900  14 Sand 900  15 Shale 900  16 Shale 900  17 Shale 900  18 Shale 900  19 Shale 900  10 Shale 900	58	Shale	786	
14 Hale 812  3 Lime 815  51 Shale 824  14 Sand 828 no oil  13 Shale 841  14 Sand 847  10 Shale 860  10 Shale 900		Broken send	793	ne or
3 Jame 815  9 Shale 824  4 Sand 828 no oil  13 Shale 847 no oil  2 Shale 860  10 Shale 900  1 Shale 900  1 Shale 900  1 Shale 900  1 Shale 900  2 Sand 902 Solo oil old ok bleeding  1 Sand 902 Solo oil oil  2 Sand 906 386-50:1 oil  1 Broken and 908 560 oil  1 Broken and 908 560 oil  1 Broken sand 906 56-1096  1 Broken sand 906 56-1096  1 Broken sand 926 no oil  1 Cond 926 no oil	5	scordy shale	798	
9 shale 824  4 squad 828 no oil  3 shale 841  6 squad 847 no oil  2 squad 847 no oil  2 squad 840  4 squad 860  4 squad 860  5 shale 860  1 squad 860  1 squad 860  2 squad 860  1 squad 600  1 squad 600  2 squad 603 no oil  2 squad 605 960-5012 pil  1 squad 605 960-5012 pil  1 squad 607 860-601	7.1	shale	817	
H cand 828 no oil  3 shale 841 no oil  2 sand chale 860  4 cand 864 no oil  2 sand chale 866  3 hale 900  3 haken 500 901 206 oil oder  1 sand 603 no oil  2 sand 603 no oil  1 sand 605 906 - soid oil  1 sand 906 366 - soid oil  1 shaken 500 908 oil	7	Lime	815	
2 shale 841  2 send 847 no oil  3 send shale 860  4 send 864 no oil  2 send shale 866  3 hale 900  3 hoken send 901 206 al ader  1 send 902 sold ok bleeding  1 send 906 sell-sold oil  2 send 906 sell-sold oil  1 hoken send 907 206 all  1 hoken send 907 206 all  1 hoken send 908 500 oil  1 hoken send 908 500 oil  1 hoken send 900 all  1 cand 926 no oil	9	shalo	824	
C = cond 847 no cil  3 = cond, chale 860  10 : shale 866  4 = cond 866  2 = condy shale 866  3 hocker sind 901 206 nil, oder  1 = cond 602 solid ok bleeding  1 = cond 1 = co3 no cil  2 = cond cos 966 - coil 2 = cos 966 - coil  1 = cond 906 = cos 007 = cos 001  1 = cond 906 = cos 007 = cos 001  1 = cond 906 = cos 001  1 = cond 906 = cos 001  1 = cond 926 = coil  10 = cond 926 = coil	4	sand	828	no oil
3 mody shale \$50  10 Jacke \$60  4 cand \$64 no oil  2 candy shale \$66  3 Jacken sind 901 20% all ok bleeding  1 cand 902 solid ok bleeding  2 cand 906 sell-coil all  1 cand 906 sell-40% all  1 Broken sind 90% solo oil  1 Condy shale 936	13	shale	841	
10 : Shale 860  4		Egyd	547	no oil
4 send 864 no oil  2 send shale 866  shale 900  3 noken send 901 200 oil ok bleeding  1 send 102 solid ok bleeding  2 send 905 900-50:1 oil  1 send 906 300-400 oil  1 Broken send 908 500 oil  1 Broken send 908 500 oil  1 Broken send 906 500-1000  1 Broken send 906 500-1000  1 Broken send 926 no oil  10 send 926 no oil	3	and chale	850	
2 sendy shale 866  shale 900  ) Indon sind 901 20% oil, odor  ) sand 902 solid ok bleeding  1 and lime 905 resto-coil oil  2 send 906 zesto-40% oil  ) Broken and 90% 50% oil  ) Broken and 90% 50% oil  ) Broken and 90% 50% oil  1 Broken and 90% oil	10	· shale	860	(0
3 Snoken sind 901 20% all oder  1 sond 902 solid ok bleeding  1 sond 1003 no all  2 sond 905 906-50:1 all  1 sond 906 308-4090 all  1 Broken sind 908 5090 all  1 Broken sind 908 5000 all  10 sindy shale 936	4	eard	8C4	no o:1
) Snoken sind 901 20% ail ader  ) and 902 solid ak bleeding  1 and Lime co3 mail  2 sand gos golo-solid ail  ) Broken sind gor solo ail  ) Broken sind gos solo ail	2	sandy shale	866	
1 sand 902 solid ok bleeding 1 randy Lime 903 m oil 2 sand 905 906-50:2 oil 1 sand 906 solo sil 1 shoken and 90% 500 oil 1 shoken and 90% 500-1090 1 shoken and 90% 500-1090 1 shoken and 926 no oil 16 sand 926 no oil		solale	900	
1 send, lime (03 no oil  2 send (05 906-50:2 oil)  1 send (07 206-1090 oil)  1 Broken send (07 206 oil)  1 Broken send (00 50-1090  1 Broken send (10 no oil)  10 send (12 00 oil)	>	Broken send	901	20% oil, oder
2 5 and 906 3080-50:2 ail  1 Broken send 908 500 ail  2 Broken send 908 500 ail  2 Broken send 908 500-1090  1 Broken send 900 800-1090  1 Broken send 926 no ail  10 send 926 no ail		son d	902	solid ok bleeding
1 Broken send 906 386-4090 6:1  1 Broken send 908 500 6:1  1 Broken send 909 590-1096  1 Broken send 900 00 00 0:1  1 Eand 926 00 6:1		sendy lime	903	No oil
1 Broken send 90% 50% 01 1 Broken send 90% 500-10% 1 Broken send 900 5%-10% 1 Broken send 900 no 011 10 send 926 no 011	2_	send	905	908/0-50:1 pil
) Broken send 90%, 50% oil  ) Broken send 900 5%-10%  ) Broken send 900 no oil  10 end 926 no oil	)	ead	906	1:00/012-0125
1 Broken sand 909 590-1090  1 Broken sand 926 no oil  10 sandy shale 936	)	Broken sind	702	26/0
1 Broken soud 926 no oil 10 sandy shale 936	)	Broken soud	908	500 oil
10 and, shale 936		Broken send	909	590-1090
10 and, shale 936		Broken soud	910	no oil
		end	926	no oil
44 shale 980 TD		andy shale		
	44	shale	980	OT

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-7-



262872

LOCATION BLANKS
FOREMAN Coon Leunedy

DATE\_

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

### FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WELL NAME & NU		SECTION	TOWNSHIP	RANGE	COUNTY
10/3/13	7532	Thomas B of	20	N€ 31	14	22	.10
CUSTOMER	~		De: 111				
31	Petroleum		_	TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDR				481	Cashen	Sofot	Martina
18800	Sunttowe	r Rd		toleto	Garlloo	1/	3
CITY		STATE ZIP CODE		503	MatCoc	V	
Edeate	on	KS 6602	y	369	Mik Haa	V	
JOB TYPE JOS	restrice_	HOLE SIZE 578"	HOLE DEP	тн_ 980 '	CASING SIZE &	WEIGHT 27/8	"FIX
CASING DEPTH	941	DRILL PIPE	TUBING &	200fle-932	(	OTHER	
SLURRY WEIGH	нт	SLURRY VOL	_ WATER ga	ıl/sk	CEMENT LEFT	CASING 97	
DISPLACEMENT	T 5.39 665	DISPLACEMENT PSI	MIX PSI		RATE_ 4.5		
		aeting etablished					2
		O both fresh wa	tor mix	ed + am.	od 37 V	5 -5750 F	Tienere .
	m w/2%		sect pa		The state of the s	whace Au	
		ed 21/2" relater		haffle w/	5 29 LL	Jad , I	tono
	to 100 PG		come d	4 3 000	J. J. 1 DO	HELV CLY	100
NO WOO	TO OUD FU	The result ples	sore par	ut in casi	<del>5</del>		
						7	
					1657	_/	

ACCOUNT CODE	QUANITY or UNIT	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401		PUMP CHARGE		1085.00
5402	941	HONORE CASTING HOSTAGE		
5406	30 mi	mileage		124.00
5407	minimum	ten mileage		368.00
S209C	2 hrs	So Vac		180.00
1124	127 \$4	5% Poznix consect		1460.50
11183	413 中	Fremium Gel		90.86
1107	32 #	Floser		79.04
4402	1	21/2" rubber plug		29.50
vin 3737		7.375%		122.42
	11/1		ESTIMATED TOTAL	3541.3

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