

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1109124

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:		
Address 2:		Feet from Dorth / South Line of Section
City: Sta	ite: Zip:+	Feet from Cast / West Line of Section
Contact Person:	·	Footages Calculated from Nearest Outside Section Corner:
Phone: ()		
CONTRACTOR: License #		County:
		Lease Name: Well #:
		Field Name:
5		Producing Formation:
Designate Type of Completion:		Elevation: Ground: Kelly Bushing:
New Well	Entry Workover	Total Depth: Plug Back Total Depth:
<ul> <li>Oil</li> <li>WSW</li> <li>Gas</li> <li>D&amp;A</li> <li>OG</li> <li>CM (<i>Coal Bed Methane</i>)</li> <li>Cathodic</li> <li>Other (<i>Core,</i></li> </ul>	SWD     SIOW       ENHR     SIGW       GSW     Temp. Abd.	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: feet depth to: w/ sx cmt
If Workover/Re-entry: Old Well Info	as follows:	
Well Name:		Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Deepening Re-perf.	Original Total Depth:     Conv. to ENHR Conv. to SWD     Conv. to GSW	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 #:	Quarter Sec TwpS. R East West
	Permit #:	County: Permit #:
GSW	Permit #:	
Spud Date or Date Read Recompletion Date	ched 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 II III Approved by: Date:					

	Side Two	1109124
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	

**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 (Attach Additional She	eets)	Yes No		-	n (Top), Depth an		Sample
Samples Sent to Geolog	ical Survey	Yes No	Nan	ie		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	<pre>Yes □ No Yes □ No Yes □ No</pre>					
List All E. Logs Run:							
		CASIN	G RECORD	ew Used			
		Report all strings se	et-conductor, surface, int	ermediate, product	ion, 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

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					ement Squeeze Record I of Material Used)	Depth			
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R	un:	No	
Date of First, Resumed F	Product	ion, SWD or ENH	۲.	Producing N	_	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
									Ι	
DISPOSITIO	N OF C	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTE	RVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit )		Commingled (Submit ACO-4)		
(If vented, Subi	mit ACC	)-18.)		Other (Specify	)					

# 15-045-21851-00-00

#### WELL LOG

Thickness of Strata	Formation	Total Depth		
2	Soil-Clay	2		
60	Sandstone	62		
136	Shale	198		
6	Lime	204		
6	Shale	210		
13	Lime	223		
8	Shale	231		
8	Lime	239		
5	Shale	244		
19	Shale	263		
17	Shale	280		
17	Sand	297		
19	* Lime	315		
18	Sandy Shale	333		
57	21	390		
22	Lime	412		
14	Shale	426		
- 3	HS	429		
7	Lime	436		
24	Shale	460		
15	Lime	475		
6	Shale	481		
1	Lime	482		
13	Shale	495		
23	Lime	518		
8	Shale	526		
24	Lime	550		
3	Shale	553		
5	Lime	558		
4	Shale	562		
5	Lime	567		
3	Shale	570		
10	Sand	580		
17	Shale	597		
5	Sandy Shale	602		
8	Shale	610		
11	Sandy Shale	621		
11	Sand	632		
26	Sandy Shale	658		
27	Shale	685		

Douglas County, KS Well: Pearson 31 (913) 837-8400 Commenced Spudding: 1/3/2013 Lease Owner: R.T. Enterprises

Sand	695
Sandy Shale	700
Shale	737
Lime	742
	750
	756
	762
	763
	784
	787
	791
	796
	798
	805
	805
	807
	831
	836
	842
	848
	858
	864
	888
	889
	890
Shale	959-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 - SPMxRx[) 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 V/ATTS equal 1 HP

10000

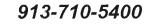
# Log Book

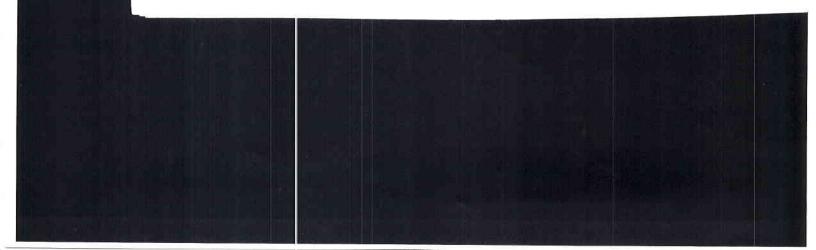
Well No		<u></u>
Farm_Pecces	50 M	
(State)	<u> </u>	(County)
()	) \	20
(Section)	(Township)	(Range)
For RT	Entros	æS

Carro. (Well Owner)

Ses

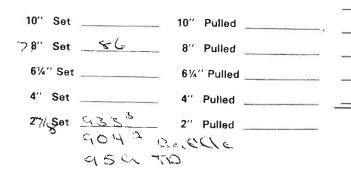






Paceson Farm: Davelas County KS State; Well No. 31 Elevation 1071 Commenced Spuding 1- 3 2017 Finished Drilling \_\_\_\_\_\_ 2013 Driller's Name Church Wearch Driller's Name Driller's Name Tool Dresser's Name Cale Holdow Tool Dresser's Name Tool Dresser's Name (Section) (Township) (Range) Distance from \_\_\_\_\_ line, 1485 ft. Distance from  $\underline{E}$  line,  $\underline{SSO}$  ft. 05773 - CXX7 - 141415

# comented by Conschideded CASING AND TUBING RECORD



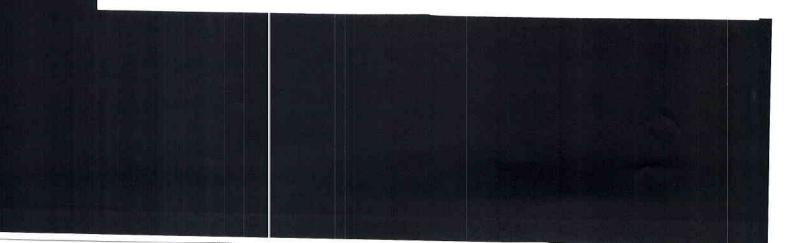
#### CASING AND TUBING MEASUREMENTS

Feet	ln.	Feet	In.	Feet	In.
404	3	240	:e/e		
933	.3	Cle	<u> </u>	=//0	e

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Thickness of Strata	Formation	Total Depth	Remarks
÷.	souldchay	2	
60	ecudetone	62	- water 40'
136	sinche	1944	
6	Linne	20'-1	
6	shale	210	
13	Lime	223	
×	sherte	231	
4	Line	239	7
5	chale	シントレ	
19	shale + shalls	263	
57	shale	240	
	sand + shalle	297	
19	LIME	315	- <u>ne oil</u>
18	ound y chale	333	with some and
57	shale	290	- with some sund, we or
22	Lunica	412	
14	shale	426	
3	shales Lime	429	
7	Line	436	
24	chale	460	
15	Linic	115	
6	Should	481	
)	Line	482	
13	Shelle	495	
23	Line	514	
8	shale	526	
24	-2.	\$50	



hickness of	Formation	550 Total	
Strata	ornation	Depth	Remarks
3	shale	553	
5	Lime	558	
<u> </u>	shole	562	
- 5	Livne	557	- Hartha
2	Sherle	570	
0	second	680	
5	Sharle	547	- mey, no ol
5	- and y shale	602	
8	shale	40	
- > >	send y shalle	6.21	
- 11	eand	632	
26	sendychales	658	- Brey, no or 1
27	shale	685	
0	sand	695	
1	sunda shale	100	- concer y , ho ent
37	sincile	737	
15	Lime	742	
5	stre le	750	
6	Laure + sheale	150	
Lur	shele	762	
5 N	Lunctsteile	773	,
11	incle	154	
3	Line	187	
ч	shale	791	
5	- sind	796	Brown send, nach)
2	sundy she le	745	brown hend, no c. 1
7	shele	805	-



Thickness of Strata	Formation	805 Total	Remarks
2	Luna	Depth BOT	
22	sheale	829	
2	Lime	831	red bed - 813- 817"
5	shale	836	1
6	sand	842	Sindy, Mr. O. 1
L.	sund	818	10% 01
10	sind	454	50% all sheets bleeding
6,	sindy Lune	564	ne cil
24		888	work which book bleed,
	sindy Lime	884	10% 0.1
ć	- sundy Lung	590	-N= 0 - \
69	shale	459	CIT CIT
			<u> </u>
	-6-	l	

CEMENT         DATE       CURTONE # WELL NAME & NUMBER       SECTION       TOWNSHIP       RANGE       COUNTY         1-7-13       #	LOCATION $0 \pm \pm a_{12} = \frac{1}{12}$ FOREMAN ALIGN MADE         FOREMAN ALIGN MADE         POBO 808 48, Chanuto, KS 68720         FIELD TICKET & TREATMENT REPORT         CEMENT         DATE       CANTON TOWNSHIP       NAME         UNTONER WELL NAME & NUMBER         UNTONER WELL NAME & NUMBER         DATE       CONTON TOWNSHIP       NAME         UNTONE WELL NAME & NUMBER         MURT WELL NAME & NUMBER         UNTONE WELL NAME & NUMBER         UNTONE WATER ONLY       THE CONTON         OUBSTONER & WELL NAME & NUMBER         UNTONE WATER ONLY       TRUCK#       ONLY         OUBSTONER & DE .         TRUCK#       ONLY         ONLY       TRUCK#       ONLY         NAME       TRUCK#       ONLY         ONLY       TRUCK#       ONLY         INTON OF SERVICES or PRODUCT       ONLY         DIME 20       SA SEC 10 SEC					<u>.</u>		17 01				
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O BOX 884, Chanute, KS. 56720       FIELD TICKET & TREATMENT REPORT         201431210 or 800-467-8876       FIELD TICKET & TREATMENT REPORT         DATE       CUSTOMER #       WELL NAME & NUMBER         201500000000000000000000000000000000000	POREMAN         Alan         Made           POREMAN         Alan         Made           PELD TICKET & TREATMENT REPORT           CEMENT           DATE         CUBTOMER         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANGE         COUNTY           DATE         CUBTOMER         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANGE         COUNTY           COUSTOMER #         WELL NAME & NUMBER         SECTION         TOWNSHIP         RANGE         COUNTY           CASING SUZE & WELL NAME & NUMBER         SECTION         TOWNSHIP         RANGE         COUNTY           CASING SUZE & WELL NAME & NUMBER         SECTION         TOWNSHIP           COUNTY         CEMENT IS         DATE         TOWNSHIP           CASING SUZE A WEIGHT         DATE           COUNT         CEMENT IS           COUNT         COUNT				12 CT	11 V2						
0 BOX 884, Chanute, KS 68720 0 BOX 884, Chanute, KS 68720 DATE DUSTOMER # WELL NAME & NUMBER DATE CUSTOMER # CUSTOM DATE CUSTOMER # WELL NAME & NUMBER DATE CUSTOMER # DECEMPTION OF SERVICES OF PRODUCT DATE CUSTOMER # STATE DESCRIPTION OF SERVICES OF PRODUCT DATE CUSTOMER # DESCRIPTION OF SERVICES OF PRODUCT DESCRIPTION OF SERVICES OF PRODUCT DATE CUSTOMER # STATE DESCRIPTION OF SERVICES OF PRODUCT DATE DESCRIPTION OF SERVICES OF PRODUCT DATE DATE DESCRIPTION OF SERVICES OF PRODUCT DATE DESCRIPTION OF SERVICES OF PRODUCT DATE DESCRIPTION OF SERVICES OF PRODUCT DATE DATE DATE DESCRIPTION OF SERVICES OF PRODUCT DATE DATE DATE DESCRIPTION OF SERVICES OF PRODUCT DATE DATE DATE DATE DATE DATE DATE DATE	0 BOX BBA, Chanutle, KS BERZO       FIELD TICKET & TREATMENT REPORT         DATE         DATE         CEMENT         DATE       CUBTOMER #         DATE       CUBENT         DATE       CUBTOMER #         DATE       PERACE         DATE       PERACE         TURK #       TURK #         DEVENT         DATE       TURK #         TURK #       TURK #         TURK #       TURK #         AND BET ME         SURPRE         TURK #       TURK #         TURK #       TURK #         SURPL #       TURK #         SURPL #       TURK # <td <="" colspan="2" td=""><td></td><td></td><td></td><td></td><td>- <b>1</b></td><td>8 (mm) (B</td><td>FOREMAN</td><td>())</td><td>00 1</td></td>	<td></td> <td></td> <td></td> <td></td> <td>- <b>1</b></td> <td>8 (mm) (B</td> <td>FOREMAN</td> <td>())</td> <td>00 1</td>						- <b>1</b>	8 (mm) (B	FOREMAN	())	00 1
DATE CUSTOMER WELL NAME & NUMBER SECTION TOWNSHIP PANGE COUNTY -7-33 PEARSON #31 SE 1/ 15 20 DG UTRURCH DEALSON #31 SE 1/ 15 20 DG UTRURCH DEALSON #31 SE 1/ 15 20 DG UTRURCH DEALSON #31 SE 1/ 15 20 DG 310 SE 1/ 15 20 DG 310 Set 1/20 SHORE DC. 310 Set 1/20 SHORE	DATE CUSTOMER WELL NAME & NUMBER SECTION TOWNSHIP RANGE COUNTY L-7-J3 PERACOC #3 SECTION TOWNSHIP RANGE COUNTY USTOMER PROCESS 120 Shareline Dr. 120 Shareline D			<sub>20</sub> FIE		& TREAT	MENT RE	PORT				
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ALC CAPPELINE UP.     STATE     ZIP CODE       Davisburg     K.S. (46053)       Davisburg     State       State     J.J.S.       Davisburg     Nattergalike       Casing opern (333)     DRIL PIPE       Tubing     Other and State (1997)       Displacement     Displacement pst B22       Marter galike     Cement Leritic casing (2905)       Intervelopt     Displacement pst B22       Marter galike     Cement Leritic casing (2905)       State     Marter galike       Comment Ly (1970)     Marter galike       Comment Ly (197	$\begin{array}{c cccc} \hline & & & & & & & & & & & & & & & & & & $	ALING ADDR		<u>10</u>			516	Ala Mad	1 131	and the second se		
Louisburg     KS     Uboss     Sto     Dechas     DM       OB TYPE     International State     Sto     Soft State     Sto     Soft State     DM       ASING BEETH     GISS     Dechas     DM     Sto     Soft State     DM       ASING BEETH     GISS     Dechas     DM     DM     DM     DM       ASING BEETH     GISS     Dechas     DM     DM     DM       ASING BEETH     GISS     DELLEPTIC GASING SIZE     MURPHILL     DM       ASING BEETH     GISS     DELLEPTIC GASING SIZE     DM     DM       ISPLACEMENT     DISPLACEMENT PSI BOD     WATER gallek     CEMENT LEPTIC GASING VAS       ISPLACEMENT     DISPLACEMENT PSI BOD     WATER gallek     CEMENT LEPTIC GASING VAS       ISPLACEMENT     DISPLACEMENT PSI BOD     WATER gallek     CEMENT LEPTIC GASING VAS       GR     TOLA     Sto     Sto     Sto     DD       GR     Mark     Sto     DD     Sto     DD       TAS     Chad     DESCRIPTION of SERVICES or PRODUC	Louisburg     KS     Gbb33     SBC     December 2015     DT       JOB TYPE [augustics]     HOLE SIZE     5378     HOLE DEPTH     257     CASING SIZE AWEIGHT     278       JOB TYPE [augustics]     HOLE SIZE     5378     HOLE DEPTH     257     CASING SIZE AWEIGHT     278       JOB TYPE [augustics]     HOLE SIZE     5378     HOLE DEPTH     257     CASING SIZE AWEIGHT     278       JOB TYPE [augustics]     DORL PIPE     TUBING     CHEMEN SIZE     5178     HOLE DEPTH     278       JORN WERT     SURRY VOL     WARTE guillak     CEMENT     DISPLACEMENT PSIL BOD     MARTE guillak     CEMENT     278       JORN WERT     SURRY VOL     WARTE guillak     CEMENT     PLOD     280     PLOD     280       JENARCE     HOLE ARE FLACH IST LASS AND TO LARE GUILAR     FLACH ARE GUILAR     PLAND     PLAND     280       JENARTY VIEW     LAND HALE BOD     PST.     Set Pland     CLaused     100       JULAL     Well     Held     BOD PST.     Set Pland     CLaused     100       JACOUNT     OUANITY OF UNITS     DESCRIPTION OF SERVICES OF PRODUCT     UNIT PRICE     TOTAL       JYD2     I     PLAND     August for Datage     SkB     SkB       SYD2     I	120 (					368	Arl Mal	ARN	- unce		
OB TYPE [2013] STATA HOLE SIZE 53/5 HOLE DEPTH 959 CASING SIZE A WEIGHT 278 ASING DEPTH 933 DRILL PIPE TUBING OTHER ASING V25 DRILL PIPE TUBING CEMENT LEFT IN CASING V25 ISPLACEMENT DISPLACEMENT PSI BD2 MX PSI 2020 MX P	OB TYPE $2325^{1}$ HOLE SIZE $53/8$ HOLE DEPTH $959$ CASING SIZE A WEIGH $278$ ASING DEPTH $933$ DRIL IPPE TUBING OTHER SITUES OF A SITUE	1		SIAIE	5 10		369	DerMas	Dm			
ASING DEPTH 933 DRILL PIPE TUBING ONTHERE 21/10, 905 LURRY WEIGHT SLURRY VOL WATER GAVING CEMENT LEFT IN CASING Y25 ISPLACEMENT DISPLACEMENT PSI BOD MIX PSI DOD RATE 4 4000 ISPLACEMENT DISPLACEMENT PSI BOD MIX PSI DOD RATE 4 4000 GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre Mixed a pumped 100 the GR GUI CASE STADIS Shack Castre GI CASTRE STADIS STADI I PUMP CHARGE 368 TO TOTAL STADI I PUMP CHARGE 369 I MIXEAGE 369 TASE STADIES STADIE	ASING DEPTH 433 DRILL PIPE TUBING ON ON SERVICES OF PRODUCT ON THE PRODUCT ON THE PRODUCT ON THE PRODUCT OF THE PLANE PRODUCT OF THE PLANE			K.S			310	Set Tyr	IST			
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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