

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1360030
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

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.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1360030

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

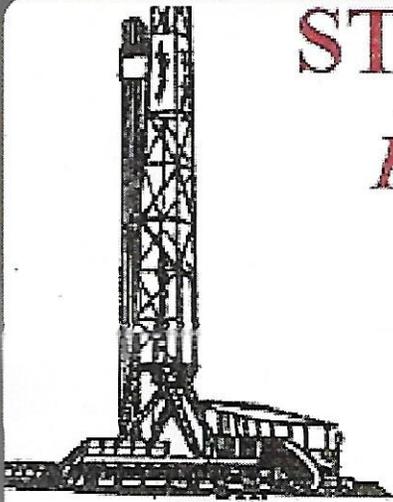
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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STEVEN P. MURPHY, P.G.

Petroleum Geologist (KS #228)

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Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Foster C#1		
API:	15-167-24061-00-00		
Location:	Russell County		
License Number:	31428	Region:	Kansas
Spud Date:	5/25/2017	Drilling Completed:	5/30/2017
Surface Coordinates:	525' FNL & 1500, FEL (SE NE NW NE) Section 3-T14S-R15W		
Bottom Hole Coordinates:	Same as above (vertical well with minimal)		
Ground Elevation (ft):	1901'	K.B. Elevation (ft):	1910'
Logged Interval (ft):	2700'	To:	TD
Formation:	Topeka through Gorham Sand		
Type of Drilling Fluid:	Chemical (Mudco - Gary Schmidtberger)		

Printed by StripLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Jeff Crawford dba Lonestar Oil Co.
Address: P.O. Box 417
Victoria, KS 67671

GEOLOGIST

Name: Steven P. Murphy, PG
Company: Consulting Petroleum Geologist
Address: 2501 Zarah Drive
Great Bend, KS 67530

LogTops (Datum)

Nabors performed the open-hole wireline logging with a stacked Dual Compensated Porosity Log, Dual Induction Log, & Microresistivity Log, The following are log tops of formations with associated datums (in parentheses) referenced to sea level:

King Hill 2862 (-956)
 Queen Hill 2930 (-1020)
 Heebner 3013 (-1103)
 Lansing 3068 (-1158)
 BKC 3310 (-1400)
 Gorham Sand 3321 (-1411)

DSTs

No drillstem tests were run on this well.

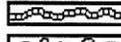
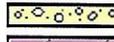
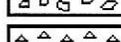
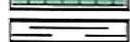
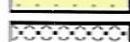
COMMENTS

The operator elected to run 5 1/2" production casing to attempt a completion in the Gorham Sst.

After discussing the logs with Richard Leath with Nabors, he recommended that the Gorham Sst be initially perforated from 3338-3342. Another interval of the sand could be perforated from 3322-3324. No other zones above the Gorham Sst appeared productive.

Based on what I see on the logs, there appears to be a permeability barrier between the top of the sand and the interval beginning at 3335. I would begin at the top of the zone from 3322-3324. The lower zone can always be shot if the top isn't productive.

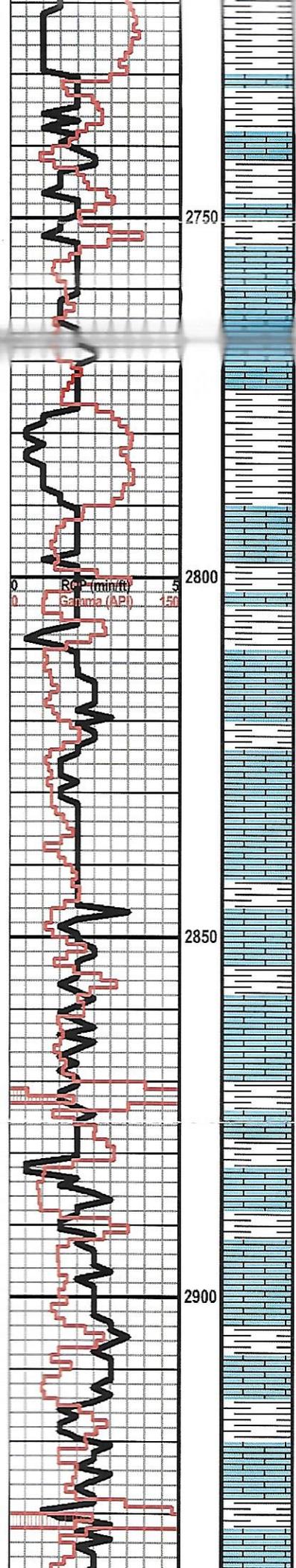
ROCK TYPES

 Anhy	 Coal	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrlst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till

OTHER SYMBOLS

OIL SHOW	 Dead	INTERVAL	EVENT
 Even	 Gas	 Core	 Conn
 Spotted		 Dst	 Rft
 Ques			 Sidewall

Curve Track 1 ROP (min/ft) — Gamma (API) —		Depth	Lithology	Oil Shows	Geological Descriptions	REMARKS
0	ROP (min/ft)	5				
0	Gamma (API)	150				
						Royal Drilling, Inc WIRU on 5/25/17
						8 5/8" Surface Casing set @ 952'
						5 1/2" Production Casing set 2' off bottom
					NOTE: The following formation tops	
		2700				Surveys:



SH: gry

TOPEKA 2788 (-878)

LS: crm-gry, vfxln, dense, sl chalky, NS

LS: crm-tan-gry, fxln, dense, sl chalky, NS

LS: as above, sl chert

LS & CHT: as above

KING HILL SH 2866 (-956)

SH: blk, carb

LS: crm-tan-gry, vfxln, dense, sl foss, NS

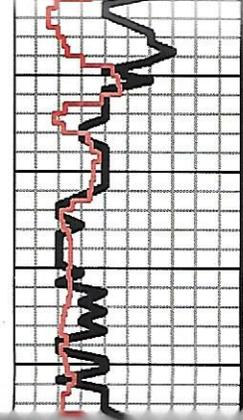
LS: wht-tan, vfxln, dense, abund wht cht, sl chalky, NS

LS & CHT: as above

LS: as above w/tr dk stn, tight

QUEEN HILL SH 2928 (-1018)

SH: blk, carb



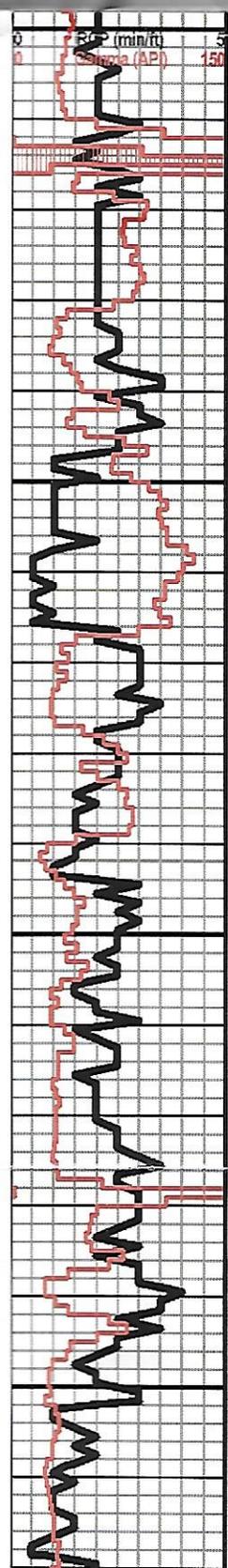
LS: crm-brn, fxlIn, sl chalky & foss, NS

○ LS: crm-tan-gry, f-vfxIn, sl ool, mostly dense w/rare fr ppt por, nsfo, sl dead stn, no odor

● LS: as above w/ssfo, fr ppt & vug por, sl odor

○ LS: crm-tan, fxlIn, sl ool, fr inxIn por, ssfo, even lite stn, fr odor

LS: wht-tan, vfxIn, dense, sl chalky, NS



LS: as above

HEEBNER 3011 (-1101)

SH: blk, carb

SH: gry-blk, grn

SH: as above

LS: wht-tan-brn, vfxIn, dense, chalky, NS

SH: gry-grn-blk

SH: as above

LANSING 3066 (-1156)

LS: wht-tan-gry, vfxIn, dense, sl chalky, NS

SH: gry-blk-grn

○ LS: wht-tan, fxlIn, oolic in pt, wht chert, fr vug por, ssfo, slt stn, sl odor

SH: gry-brn-grn-blk

○ LS: wht-tan-gry, oolic in pt, cherty, some fr vug por, ssfo, even stn, fr odor

● LS: as above w/incr in show

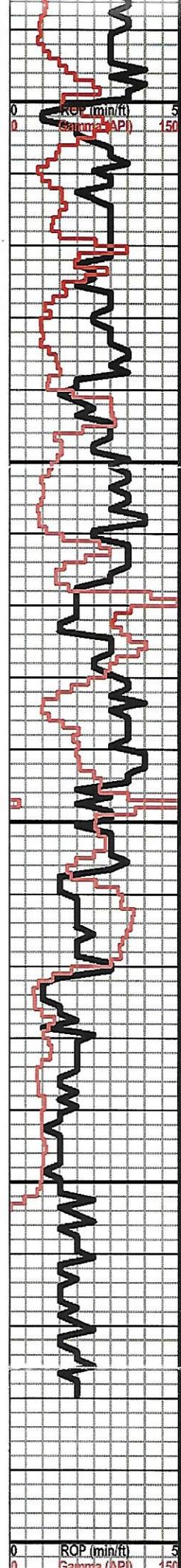
SH: gry-grn brn

○ LS: wht-gry, fxlIn, sl foss, sl ool, wht chert, pr vug por, vssfo, spotty stn, fr odor

○ LS: as above w/abund wht chert, pr show & gry-grn-brn sh

○ LS: wht-gry, fxlIn, ool, pr-fr vug por, ssfo, spotty stn, fr odor

LS: wht fxlIn, oolic, fr vug por, NS



LS: wht-tan-gry, vfxln, oolitic, dense, NS

SH: gry-grn-brn

LS: wht-tan-gry, vfxln, sl oolic, dense, NS

SH: gry-grn-brn

● LS: wht-tan-brn, fxl, ool in pt w/fr ppt por, ssfo, spotty stn, sl odor

LS: as above w/abund gry-grn shale

LS & SH: as above, NS

LS: wht-tan, vfxln, dense, sl chalky, cherty, NS

SH: gry-grn-blk

LS: crm-gry, vfxln, dense, NS

LS: wht-tan-gry, vfxln, dense, chalky, NS

LS: tan-gry, vfxln, dense, cherty, NS

LS: tan-brn, vfxln, dense, sl foss, NS
BKC 3307 (-1397)

SH: gry-blk-grn-red

GORHAM SST 3321 (-1411)

● Sst: clr-tan, med-coarse gr, sub-ang, prly std, firm-friable clusters, gd inter-gran por, fsfo, even sat stn, str odor

● Sst: as above

● Sst: as above

● Sst: as above

SH: gry-blk-grn

RTD - 3380'

LTD - 3382'

CFS 1/2 hr, short trip @ 3300' to base of surface casing

