

Confidentiality Requested:

Yes No

### Kansas Corporation Commission Oil & Gas Conservation Division

1223486

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 #			API No. 15				
Name:			Spot Description:				
Address 1:							
Address 2:			F6	eet from North /	South Line of Section		
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section		
Contact Person:			Footages Calculated from	Nearest Outside Section C	Corner:		
Phone: ()			□ NE □ NW	V □SE □SW			
CONTRACTOR: License #			GPS Location: Lat:	, Long:			
Name:			(e.g. xx.xxxxx) (e.gxxx.xxxxx)				
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84			
Purchaser:			County:				
Designate Type of Completion:			Lease Name: Well #:				
	e-Entry	Workover	Field Name:				
	_		Producing Formation:				
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW ∏ SIGW	Elevation: Ground: Kelly Bushing:  Total Vertical Depth: Plug Back Total Depth: Feet  Amount of Surface Pipe Set and Cemented at: Feet				
	GSW	Temp. Abd.					
CM (Coal Bed Methane)	dow	Temp. Abd.					
☐ Cathodic ☐ Other (Co	ore. Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No		
If Workover/Re-entry: Old Well I			If yes, show depth set: Feet				
Operator:			If Alternate II completion, c	cement circulated from:			
Well Name:			feet depth to:	w/	sx cmt.		
Original Comp. Date:							
Deepening Re-perf	J	ENHR Conv. to SWD	Drilling Fluid Managemer	nt Plan			
Plug Back	Conv. to G		(Data must be collected from to				
Commingled	Permit #		Chloride content:	ppm Fluid volume	: bbls		
Dual Completion			Dewatering method used:_				
SWD			Location of fluid disposal if	hauled offsite:			
ENHR	Permit #:						
GSW Permit #:			Operator Name:				
			Lease Name:				
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East West		
Recompletion Date		Recompletion Date	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 III Approved by: Date:						



Operator Name:			Lease Name:			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ing and shut-in pressu	ormations penetrated. Dures, whether shut-in preith final chart(s). Attach	ssure reached stati	c level, hydrosta	itic pressures, bott		
		otain Geophysical Data a or newer AND an image t		gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taken (Attach Additional S		Yes No			on (Top), Depth an		Sample
Samples Sent to Geol	ogical Survey	Yes No	Nam	Э		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING	RECORD Ne	w Used			
		Report all strings set-			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
_	5 "	ADDITIONAL	CEMENTING / SQU	EEZE RECORD			
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
	ılic fracturing treatment or	n this well?		Yes	No (If No, ski	p questions 2 aı	nd 3)
Does the volume of the to	otal base fluid of the hydra	aulic fracturing treatment ex submitted to the chemical of	=	= =	No (If No, ski	p question 3) out Page Three	
Shots Per Foot	PERFORATIO Specify Fo	N RECORD - Bridge Plug potage of Each Interval Perl	s Set/Type forated		cture, Shot, Cement mount and Kind of Ma		d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	IR. Producing Meth		Gas Lift (	Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf Wate	er B	bls. G	as-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:	N Open Hole		Comp. Cor	mmingled	PRODUCTIO	DN INTERVAL:
(If vented, Sub	omit ACO-18.)	Other (Specify)	(Submit A	(Sub	mit ACO-4)		

Form	ACO1 - Well Completion				
Operator	TDI				
Well Name	Pfannenstiel 1				
Doc ID	1223486				

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	1166	SMD	375	1/4# flo- seal

**OPERATOR** 

Company: TDI, INC.

Address: 1310 BISON ROAD

HAYS, KANSAS 67601

Contact Geologist: TOM DENNING
Contact Phone Nbr: 785-628-2593
Well Name: PFANNENSTIEL # 1

Location: NW SE NW SE SEC.23-15S-18W

API: 15-051-26,728-00-00

Pool: INFIELD Field: BIELMAN State: KANSAS Country: USA



Scale 1:240 Imperial

Time:

5:30 AM

Well Name: PFANNENSTIEL # 1

Surface Location: NW SE NW SE SEC.23-15S-18W

Bottom Location:

API: 15-051-26,728-00-00

License Number: 4787 Spud Date: 9/2/2014

Region: ELLIS COUNTY

Drilling Completed: 9/7/2014 Time: 6:45 AM

Surface Coordinates: 1745' FSL & 1865' FEL

**Bottom Hole Coordinates:** 

Ground Elevation: 1980.00ft K.B. Elevation: 1990.00ft

Logged Interval: 2850.00ft To: 3675.00ft

Total Depth: 3675.00ft Formation: ARBUCKLE

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

#### SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.2889753
Latitude: 38.730694
N/S Co-ord: 1745' FSL
E/W Co-ord: 1865' FEL

### **LOGGED BY**



Company: SOLUTIONS CONSULTING, INC.

Address: 108 WEST 35TH STREET

HAYS, KANSAS 67601

Phone Nbr: 785-625-3380

Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.

Rig #: 1

Rig Type: MUD ROTARY

Spud Date: 9/2/2014 Time: 5:30 AM
TD Date: 9/7/2014 Time: 6:45 AM

Rig Release: 9/7/2014 Time: 11:00 PM

#### **ELEVATIONS**

K.B. Elevation: 1990.00ft Ground Elevation: 1980.00ft

K.B. to Ground: 10.00ft

#### **NOTES**

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON LOG ANALYSIS, LOW STRUCTURE OF LKC AND ARBUCKLE AND SHALING OUT OF UPPER ARBUCKLE PRODUCTIIVE INTERVAL

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG

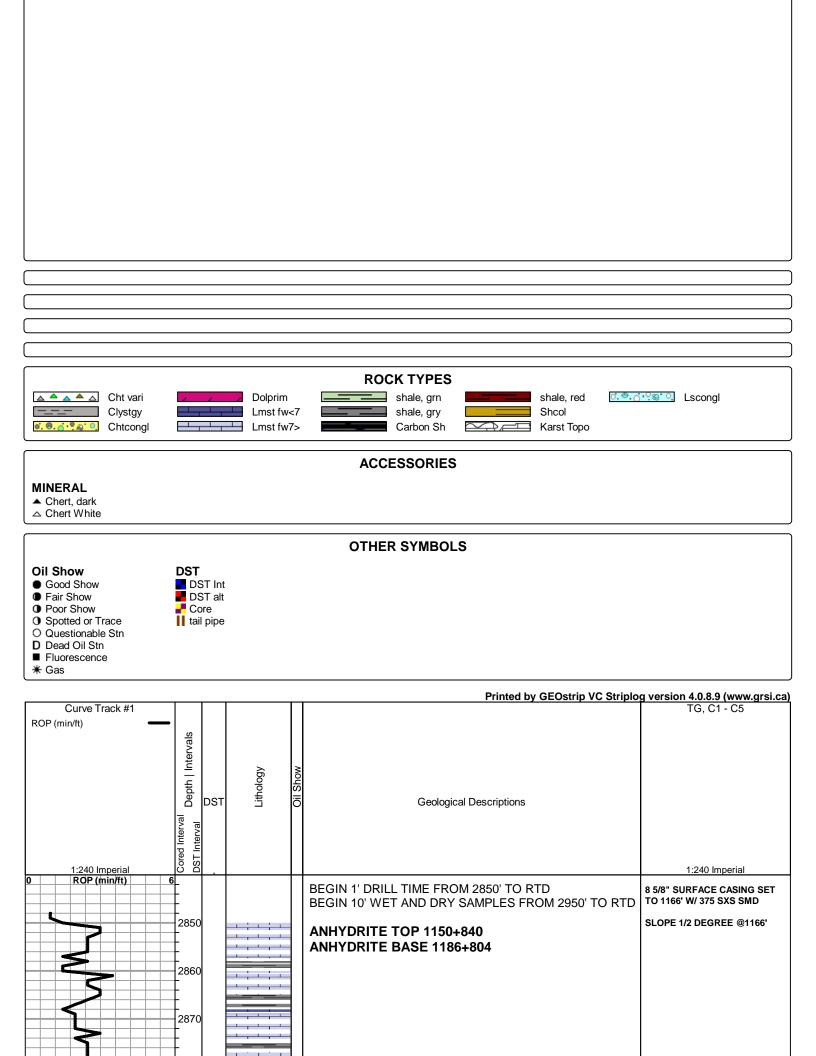
NO DRILL STEM TESTS WERE RAN ON THIS WELL

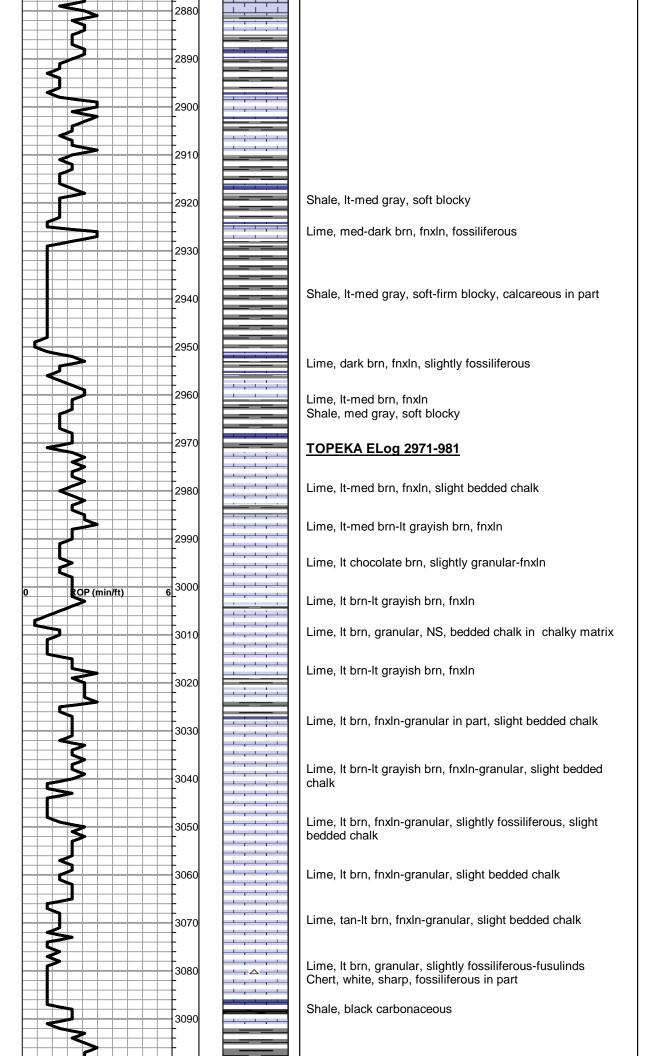
#### **FORMATION TOPS SUMMARY**

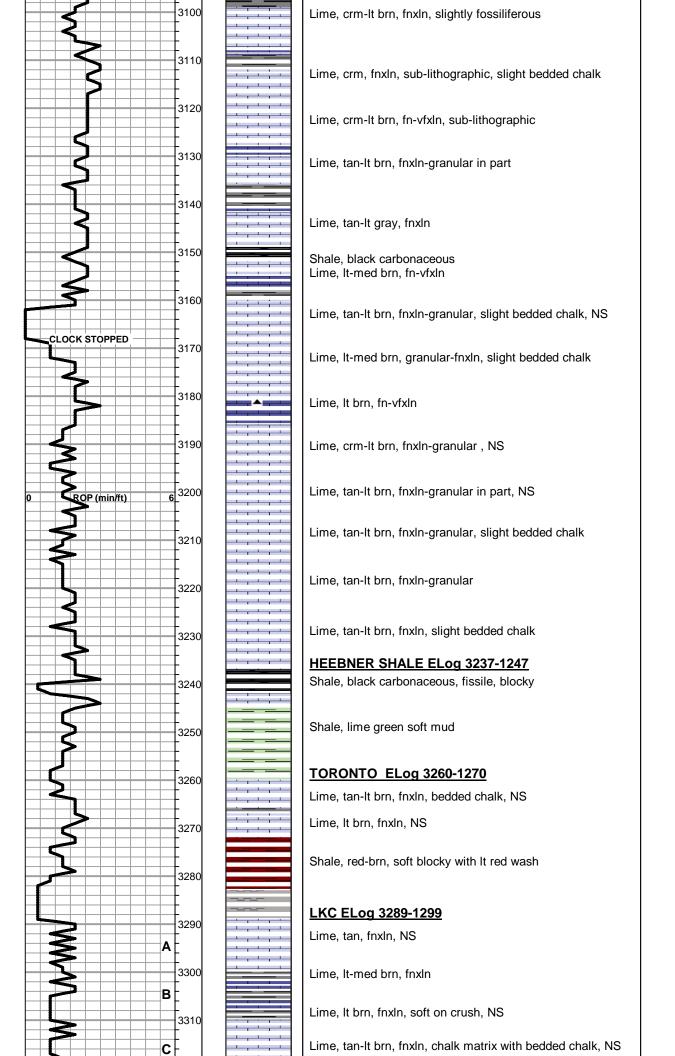
	PFANNENSTIEL #1	CHARLOTTE TR #1	1 RUDER #1-23		
	NW SE NW SE	E2 SW SE NE	E2 E2 SW		
	SEC.23-15S-18W	SEC.23-15-18W	SEC.23-15-18V		
	1980'GL 1990'KB	KB 1965'	KB 2000'		
<u>FORMATION</u>	LOG TOPS	LOG TOPS	LOG TOPS		
Anhydrite	1150 +840	+ 837	+ 855		
<b>B-Anhydrite</b>	1186 +804	+ 803	+ 818		
Topeka	2971 - 981	- 979	- 964		
<b>Heebner Sh</b>	. 3237-1247	-1243	-1230		
Toronto	3260-1270	-1265	-1252		
LKC	3289-1299	-1294	-1281		
ВКС	3514-1524	-1515	-1506		
Arbuckle	3590-1600	-1557	-1576		
RTD	3675-1685	-1685	-1955		

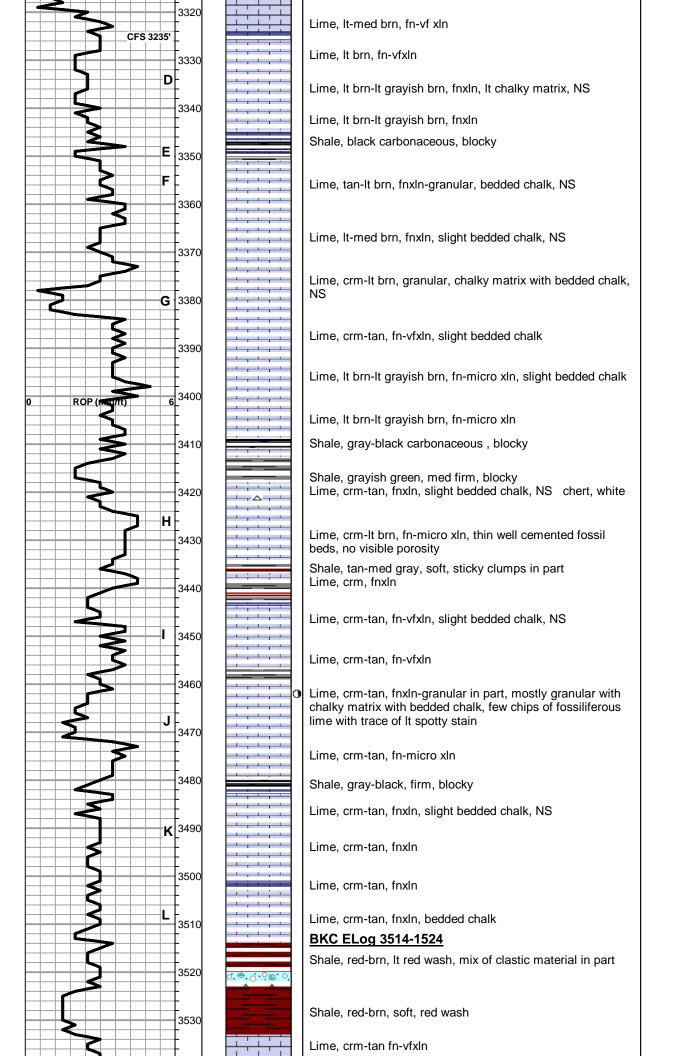
#### **SUMMARY OF DAILY ACTIVITY**

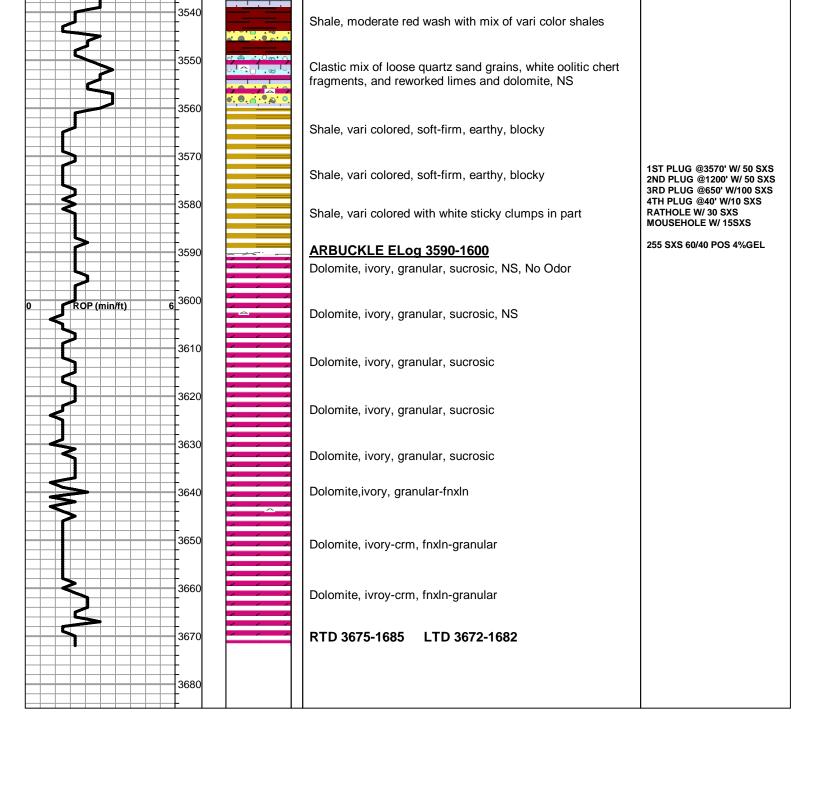
9-02-14	RU, spud 5:00 PM
9-03-14	1018', set 8 5/8" surface casing to 1166' w/ 375 sxs SMD, slope 1/2
	degree, plug down 4:30PM, WOC 12 hrs
9-04-14	1240', drill plug 4:30 AM
9-05-14	2385', drilling, displaced 2879'-2898'
9-06-14	3163', drilling, CFS 3325'
9-07-14	3675', drilling, RTD 3675' @ 6:45AM, short trip, TOWB, logs, P&A











SWIFT Services, Inc. JOB LOG WELL NO. #1 CUSTOMER J. O. I. Pfanenstic/ PRESSURE (PSI) PUMPS CHART TIME DESCRIPTION OF OPERATION AND MATERIALS on Loc. 12:30 Start in hole 8 %" Csq. 12:35 Baffle Plate 1150' Cent. # 1, #3, #13
Csg. on Bottom
Circulate 14:20 Pump Sougal Mud Flush 20 HCL Flush Mix 375516 SMO Cement 15:20 15:30 1055K@ 11.8 #/gal 59 100525 6 128 #/gel 38 7551 C 135 #61 139 Release Top Plug Displ. '73301 Plug Down Circulated 3058 to AT Wash + Rack up tomas? Jos Complete 16:10 16:45

# GLOBAL CEMENTING, L.L.C. 1443

REMIT TO		J48 170RI JSSELL, I			SERVICE POINT:					
C we los	L	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH		
DATE 9-7-/	4			BORRES CHI PE SURVEY	A State of the sales of		COUNTY	CTATE		
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CONTRACTOR	~	, thu, n	1 00.11	in P. 41	OWNER					
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TUBING SIZE		THE WA	DI	EPTH	Stal		-			
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TOOL		ALCOHOL: NAME		EPTH	Table True					
PRES. MAX				INIMUM	COMMON _		@			
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