



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1224725
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: _____

1224725

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift 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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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OPERATOR

Company: TDI, INC.
 Address: 1310 BISON ROAD
 HAYS, KANSAS 67601

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: MARSHA # 2
 Location: S2 NW NW SW, SEC.21T15S-R18W
 API: 15-051-26,727-00-00
 Pool:
 State: KANSAS

Field: SCHOENCHEN WEST
 Country: USA



Scale 1:240 Imperial

Well Name: MARSHA # 2
 Surface Location: S2 NW NW SW, SEC.21T15S-R18W
 Bottom Location:
 API: 15-051-26,727-00-00
 License Number: 4787
 Spud Date: 9/17/2014 Time: 12:30 PM
 Region: ELLIS COUNTY
 Drilling Completed: 9/22/2014 Time: 4:00 AM
 Surface Coordinates: 2300' FSL & 330' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2003.00ft
 K.B. Elevation: 2013.00ft
 Logged Interval: 2850.00ft To: 3700.00ft
 Total Depth: 3700.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.3368997
 Latitude: 38.7322504
 N/S Co-ord: 2300' FSL
 E/W Co-ord: 330' FWL

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: 9/17/2014 Time: 12:30 PM
 TD Date: 9/22/2014 Time: 4:00 AM

ELEVATIONS

K.B. Elevation: 2013.00ft
 K.B. to Ground: 10.00ft

Ground Elevation: 2003.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON LACK OF SHOWS AND LOG ANALYSIS

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

THERE WERE NO DRILL STEM TESTS RAN IN THIS WELL

FORMATION TOPS SUMMARY

	MARSHA # 2	ROTH # 1	ALTA # 1
	S2 NW NW SW	SW SW NW	SE NW SW NW
	SEC.21-15S-18W	SEC.21-15-18W	SEC.21-15-18W
	2003'GL 2013'KB	KB 2007'	KB 1993'
<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1168+ 845		+ 846
B-Anhydrite	1205+ 808		+ 813
Topeka	2982 - 969		- 960
Heebner Sh.	3250-1237	-1239	-1237
Toronto	3271-1258	-1263	-1262
LKC	3298-1285	-1289	-1286
BKC	3525-1512	-1515	-1510
Arbuckle	3626-1613	-1613	-1589
RTD	3700-1687		-1679

SUMMARY OF DAILY ACTIVITY

9-17-14 RU, spud 12:30 PM
9-18-14 1178', set 8 5/8" surface casing to 1178' w/ 375 sxs SMD, slope 3/4 degree, plug down 12:45PM, WOC 12 hrs
9-19-14 1424', drill plug 12:45 AM
9-20-14 2593', drilling, displaced 2889'-2904'
9-21-14 3180', drilling
9-22-14 3700', drilling, RTD 3700' @ 4:00AM, short trip, TOWB, logs, P&A

Image Header 02

Image Header 03

Image Header 04

Image Header 05

ROCK TYPES

	Clystgy		Lmst fw<7		shale, gry		Lscongl
	Chtcongl		Lmst fw7>		Carbon Sh		CglSandy
	Dolprim		shale, grn		shale, red		

ACCESSORIES

MINERAL

- ▲ Chert, dark
- △ Chert White

OTHER SYMBOLS

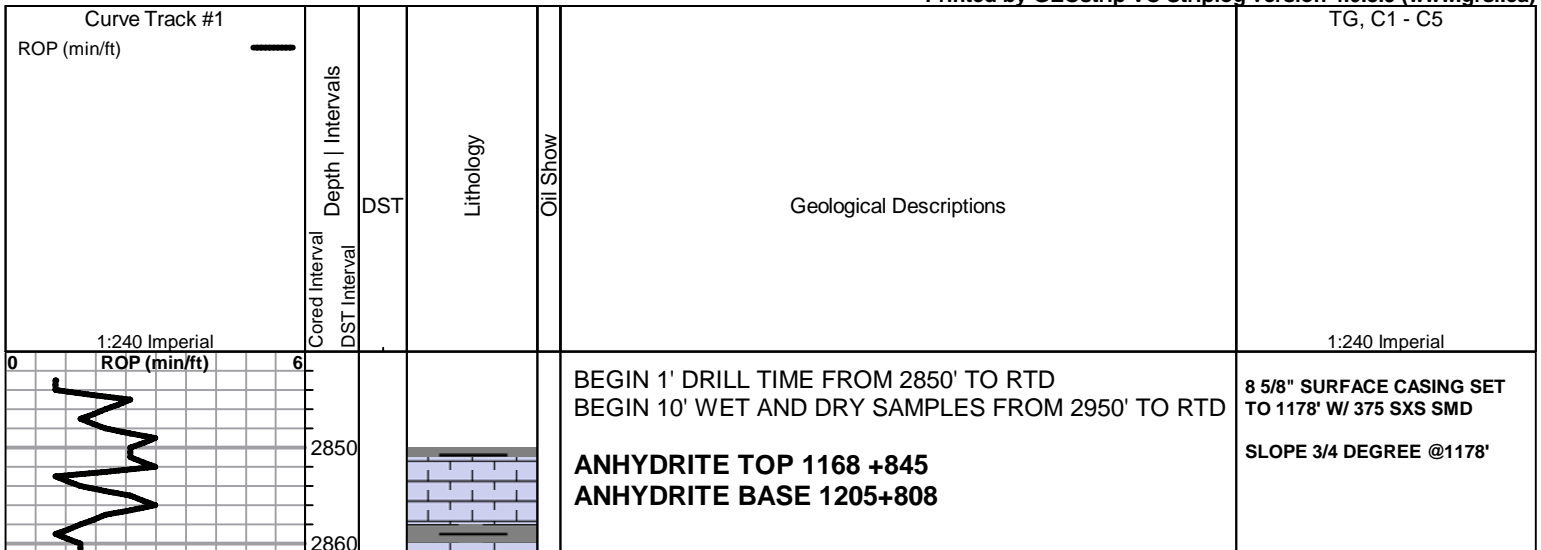
Oil Show

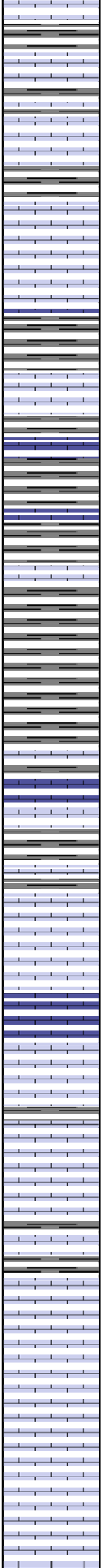
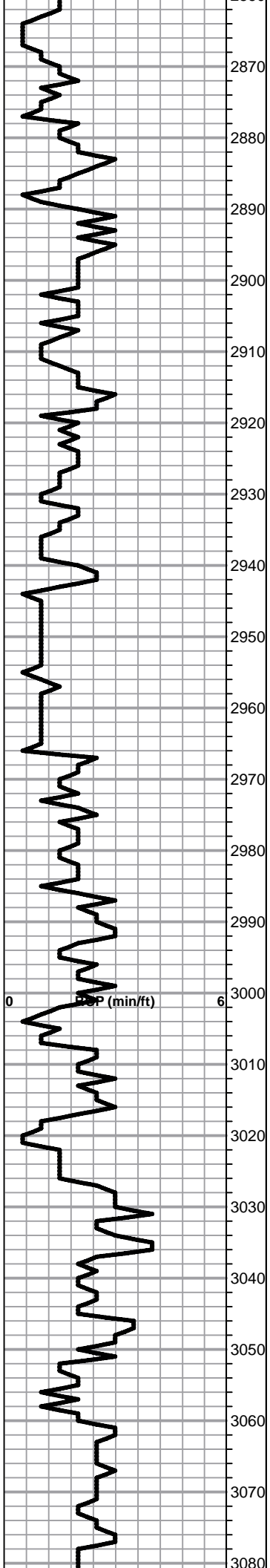
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)





Lime, lt-med brn, fnxln, slightly fossiliferous

Shale, lt-med gray, soft blocky, slightly waxy

Lime, med-dark brn, fnxln, slightly fossiliferous

Shale, lt-med gray, soft mud-soft blocky

Lime, med-dark brn-lt brn in part, fnxln

TOPEKA ELog 2982-969

Lime, lt brn-med grayish brn, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln, lt white chalk wash with sticky clumps in part

Lime, lt-med brn, fnxln, lt chalky matrix in part with lt chalk wash

Lime, lt brn-med grayish brn, fn-vfxln

Lime, lt brn, granular, NS

Lime, lt-med brn, fn-vfxln,

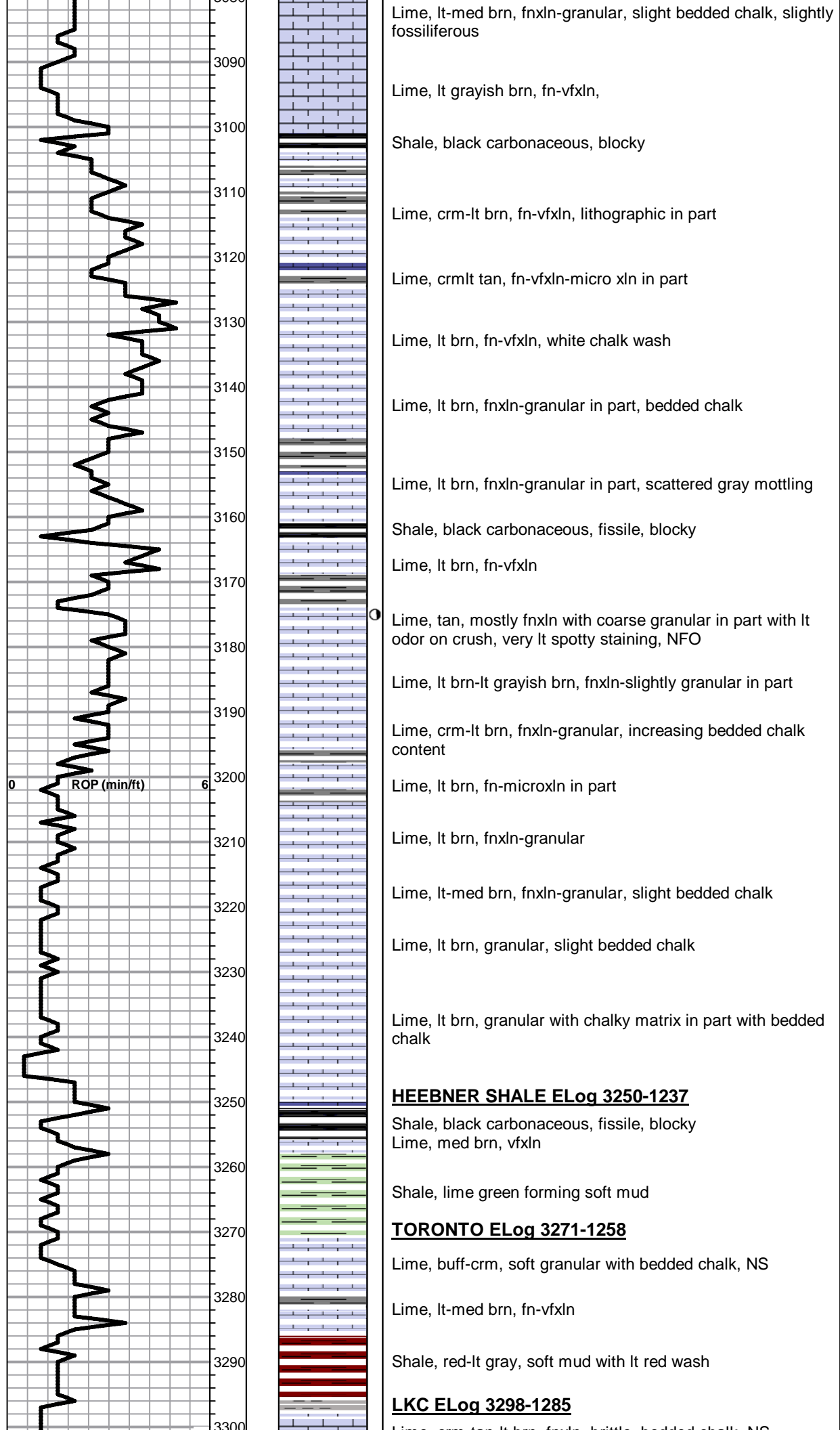
Lime, lt brn-lt grayish brn, fn-vfxln

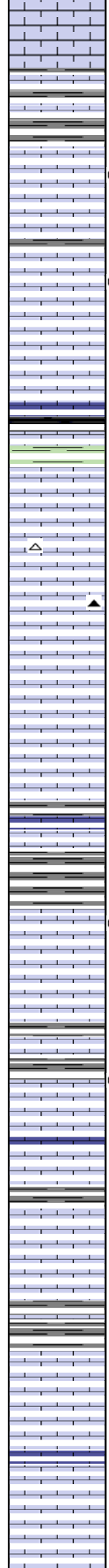
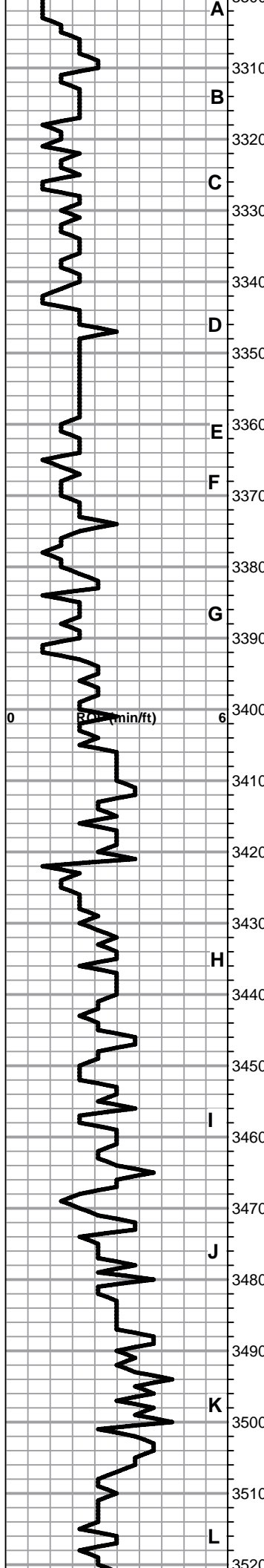
Lime, lt-med brn, fn-vfxln, slight bedded chalk, slightly fossiliferous

Lime, lt brn, fnxln-granular, slightly fossiliferous-fusulinids

Lime, lt brn, fnxln

STARTED LOSING PUMP PRESSURE WITH POOR SAMPLES. PULLED DRILL PIPE AT 3085' TO LOOK FOR HOLE IN PIPE





Lime, crm-tan-lt brn, fnxn, brittle, bedded chalk, NS

3310
Lime, lt-med brn, fn-vfxln

3320
Lime, crm-tan, mostly fnxn, few chips oolitic/oomoldic with trace of spotty staining, No Odor, NFO

3330
Lime, crm-tan, fnxn

3340
Lime, crm-tan, fnxn, few chips oolitic w fossil fragments, very lt odor with spotty staining, increasing chalk with depth

3350
Lime, crm-tan, fnxn, bedded chalk

3360
Shale, black carbonaceous, blocky
Lime, lt gray, fnxn

3370
Lime, crm-tan, fnxn, soft on crush, lot of bedded chalk in chalk matrix, NS

3380
Lime, crm-tan, fn-micro xln, slight bedded chalk, NS
Chert, lt gray with white chert in part

3390
Lime, crm-lt brn, fn-micro xln, slight bedded chalk

3400
Lime, crm-tan-lt brn, fn-micro xln, slight bedded chalk

3410
Lime, lt-med brn-med grayish brn, fnxn

3420
Lime, crm-tan, fnxn, spotty stain in fine interxn porosity with fine vuggy development, No Odor, NFO

3430
Lime, crm-lt brn, fn-micro xln, slight bedded chalk

3440
Lime, crm-tan, fn-vfxln, bedded chalk, few chips, lt spotty staining, No Odor, NFO, appears thinly developed

3450
Lime, lt-med brn, fn-vfxln, slight bedded chalk

3460
Lime, lt-med brn, fn-vfxln

3470
Lime, crm-tan, fn-vfxln, moderate bedded chalk

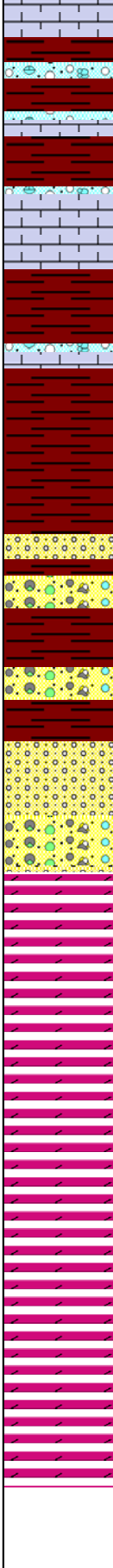
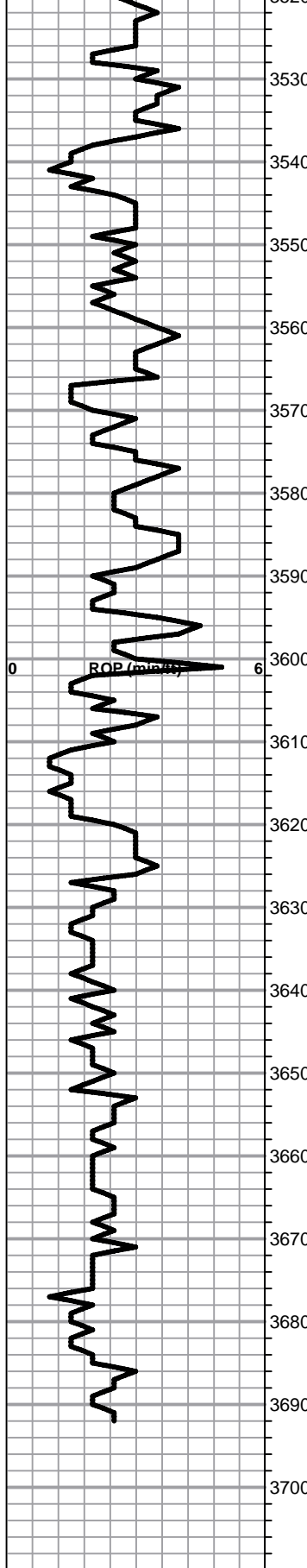
3480
Lime, crm, fnxn, moderate bedded chalk

3490
Lime, crm-tan-lt brn, fn-vfxln

3500
Lime, crm, fn-vfxln, slight bedded chalk

3510
Lime, crm, fn-micro xln, slight bedded chalk

3520



BKC ELog 3525-1512

Lime, crm, fn-flxn, slight bedded chalk

3530 Shale, red wash, sticky brown clumps of clay with clastic lime mix

3540 Shale, red wash with sticky clumping

3550 Lime, crm, fn-vflxn

3560 Shale, red wash, soft mud

Shale, lt red wash with sticky clumps

3570 Shale, red with lt red wash

3580 Shale, red-dark brn, soft mud

3590 Chert, vari colored

3600 Shale, red wash, sticky clumps

3610 Shale, red wash, soft mud

Chert vari colored, scattered sandstone clusters, cemented with white clay, NS

3620

ARBUCKLE ELog 3626-1613

3630 Dolomite, crm, fnxln-granular, sucrosic in part, NS, No Odor, scattered few chips with SFO on crush

3640 Dolomite, crm, fnxln-granular, NS, scattered quartz grains

3650 Dolomite, crm, fnxln-granular, very clean

3660 Dolomite, ivory-crm, fnxln-granular

3670 Dolomite, crm, fnxln-slightly granular, lt chalk wash

3680 Dolomite, crm,fnlxn-granular, lt chalk wash

3690 Dolomite, crm, fnxln-granular

3700

RTD 3700-1687 LTD 3692-1679

1ST PLUG @3600' W/ 50 SXS
 2ND PLUG @ 1230' W/ 50 SXS
 3RD PLUG @ 570' W/ 100 SXS
 4TH PLUG @ 40' W/ 10 SXS
 RATHOLE W/ 30 SXS
 MOUSEHOLE W/ 15 SXS

255 SXS 60/40 POS 4%GEL
 1/4# FLOCELE PER SX

SLOPE 1/4 DEGREE @3700'

JOB LOG

SWIFT Services, Inc.

DATE 9-18-14 PAGE NO. 1

CUSTOMER T.D.I. WELL NO. #2 LEASE Marsha Unit Cement Surface JOB TYPE Cement Surface TICKET NO. 26799

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0815					23 ¹ / ₄	8 ⁵ / ₈	DN loc - Float Equip Ris pulling D.P.
	0915							Start 8 ⁵ / ₈ " 23 ¹ / ₄ " casing to 1177' Cent - 1-4-14 - Baffleplate 2 nd collar @ 1110' = 71 BBI Weld every collar
	1045							Fin running casing
	1055							Start circulating casing
	1150							Fin cir-
	1155	5 6	12 20	32				100 Pump 500 gal Mlead Flush 150 Pump 20 BBI KCL flush
		5 6				100 300		Start 125 SKS SMD @ 11.8 [#] /gal - 60
		5	60			250		Start 100 SKS SMD @ 12.5 [#] /gal - 40
		5	100			250		Start 75 SKS SMD @ 13.5 [#] /gal - 23
		4 ¹ / ₂	123			200		Start 75 SKS SMD @ 14.5 [#] /gal - 20
			143			Vac		Fin cent - 143 BBI Release Plug
		5						Start Displ. 71 BBI
	1245	5 6	71			475 600		Plug Down Close in 400 [#]
								50 SKS cant circulate to pit Job Complete
								Thanks Don, Jon, Steve & Craig

GLOBAL CEMENTING, L.L.C.

1482

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell KS

DATE <u>9-22-11</u>	SEC. <u>21</u>	TWP. <u>15</u>	RANGE <u>18W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>10:30pm</u>
LEASE <u>Marsha</u>	WELL #. <u>2</u>	LOCATION			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Summit Drilling Rig #1

TYPE OF JOB Plug

HOLE SIZE 5 7/8" T.D. 3600

CASING SIZE 4 1/2" DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 2555 1/3 60/46002

4/60 gel 47 Flashed pipe

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK # 11 CEMENTER Gody

HELPER Brad

BULK TRUCK # 15 DRIVER Mark

BULK TRUCK # DRIVER

REMARKS:

1 plug 3600 503ks

2 plug 1230 503ks

1 plug 520 1003ks

40ft 105ks w/ply 105ks, R+ 303ks

CHARGE TO: TDI Inc

STREET _____

CITY _____ STATE _____ ZIP _____

Global Cementing, L.L.C.,
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME LARRY BOWEN

SIGNATURE [Signature]

TOTAL _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

Plug down 1030