



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1094614  
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: \_\_\_\_\_

1094614

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **TDI inc**

1310 Bison Rd  
Hays KS 67601

ATTN: Herb Deines

### **Rosemary #1**

### **9-15s-19w Ellis,KS**

Start Date: 2012.08.21 @ 11:16:05

End Date: 2012.08.21 @ 17:06:09

Job Ticket #: 47918                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.27 @ 11:39:57

TDI inc  
9-15s-19w Ellis,KS  
Rosemary #1  
DST # 1  
LKC-"C"  
2012.08.21



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

TDI inc  
1310 Bison Rd  
Hays KS 67601  
ATTN: Herb Deines

**9-15s-19w Ellis,KS**  
**Rosemary #1**  
Job Ticket: 47918 **DST#: 1**  
Test Start: 2012.08.21 @ 11:16:05

## GENERAL INFORMATION:

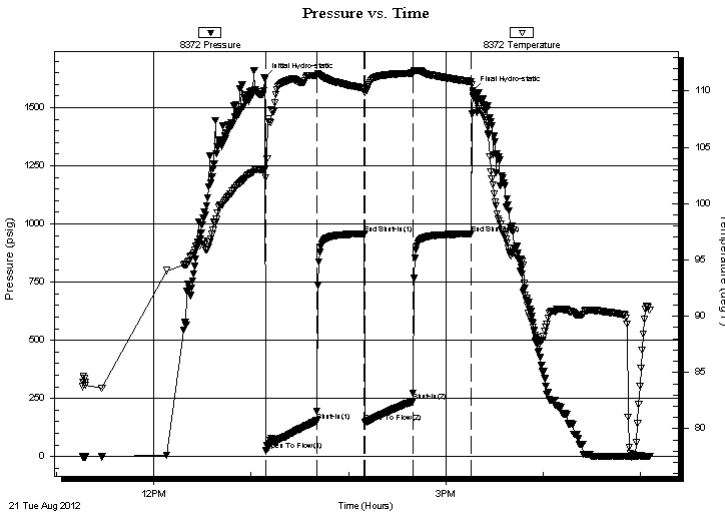
Formation: **LKC"C"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:09:10  
Time Test Ended: 17:06:09  
Interval: **3344.00 ft (KB) To 3364.00 ft (KB) (TVD)**  
Total Depth: 3364.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Andy Carreira  
Unit No: 39  
Reference Elevations: 2029.00 ft (KB)  
2019.00 ft (CF)  
KB to GR/CF: 10.00 ft

## Serial #: 8372 Outside

Press @ Run Depth: 237.41 psig @ 3345.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.08.21 End Date: 2012.08.21 Last Calib.: 2012.08.21  
Start Time: 11:16:05 End Time: 17:06:10 Time On Btm: 2012.08.21 @ 13:08:10  
Time Off Btm: 2012.08.21 @ 15:16:50

TEST COMMENT: IF:(30min) 3" in 2 min, 6" in 5 min, BOB in 15 min.  
ISl:(30min) No Return  
FF:(30min) 3" in 4 min, 6" in 9 min, 11" in 28 min.  
FSl:(30min) No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.93	102.97	Initial Hydro-static
1	25.14	102.31	Open To Flow (1)
33	153.84	111.35	Shut-In(1)
62	958.03	110.22	End Shut-In(1)
62	147.57	109.85	Open To Flow (2)
92	237.41	111.58	Shut-In(2)
128	957.25	110.82	End Shut-In(2)
129	1572.51	109.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
500.00	GMW	7.01
0.00	GIP= 30 ft	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI inc  
1310 Bison Rd  
Hays KS 67601  
ATTN: Herb Deines

**9-15s-19w Ellis,KS**  
**Rosemary #1**  
Job Ticket: 47918      **DST#: 1**  
Test Start: 2012.08.21 @ 11:16:05

### Tool Information

Drill Pipe:	Length: 3356.00 ft	Diameter: 3.80 inches	Volume: 47.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 47.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3344.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3325.00	
Shut In Tool	5.00			3330.00	
Hydraulic tool	5.00			3335.00	
Packer	5.00			3340.00	20.00 Bottom Of Top Packer
Packer	4.00			3344.00	
Stubb	1.00			3345.00	
Recorder	0.00	8017	Inside	3345.00	
Recorder	0.00	8372	Outside	3345.00	
Perforations	16.00			3361.00	
Bullnose	3.00			3364.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

TDI inc	<b>9-15s-19w Ellis,KS</b>
1310 Bison Rd Hays KS 67601	<b>Rosemary #1</b>
ATTN: Herb Deines	Job Ticket: 47918 <b>DST#: 1</b>
	Test Start: 2012.08.21 @ 11:16:05

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

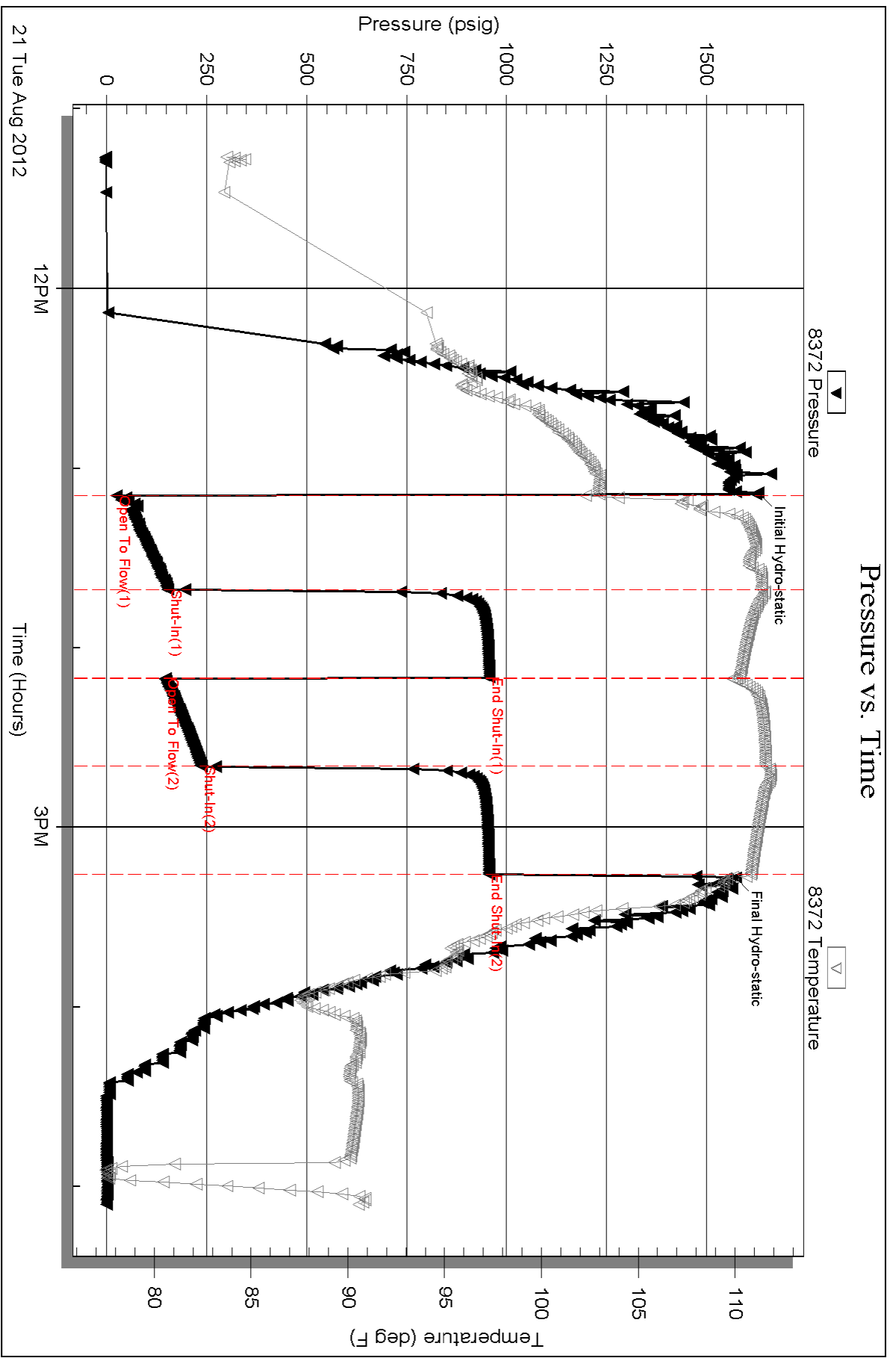
Length ft	Description	Volume bbl
500.00	GMW	7.014
0.00	GIP= 30 ft	0.000

Total Length: 500.00 ft      Total Volume: 7.014 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





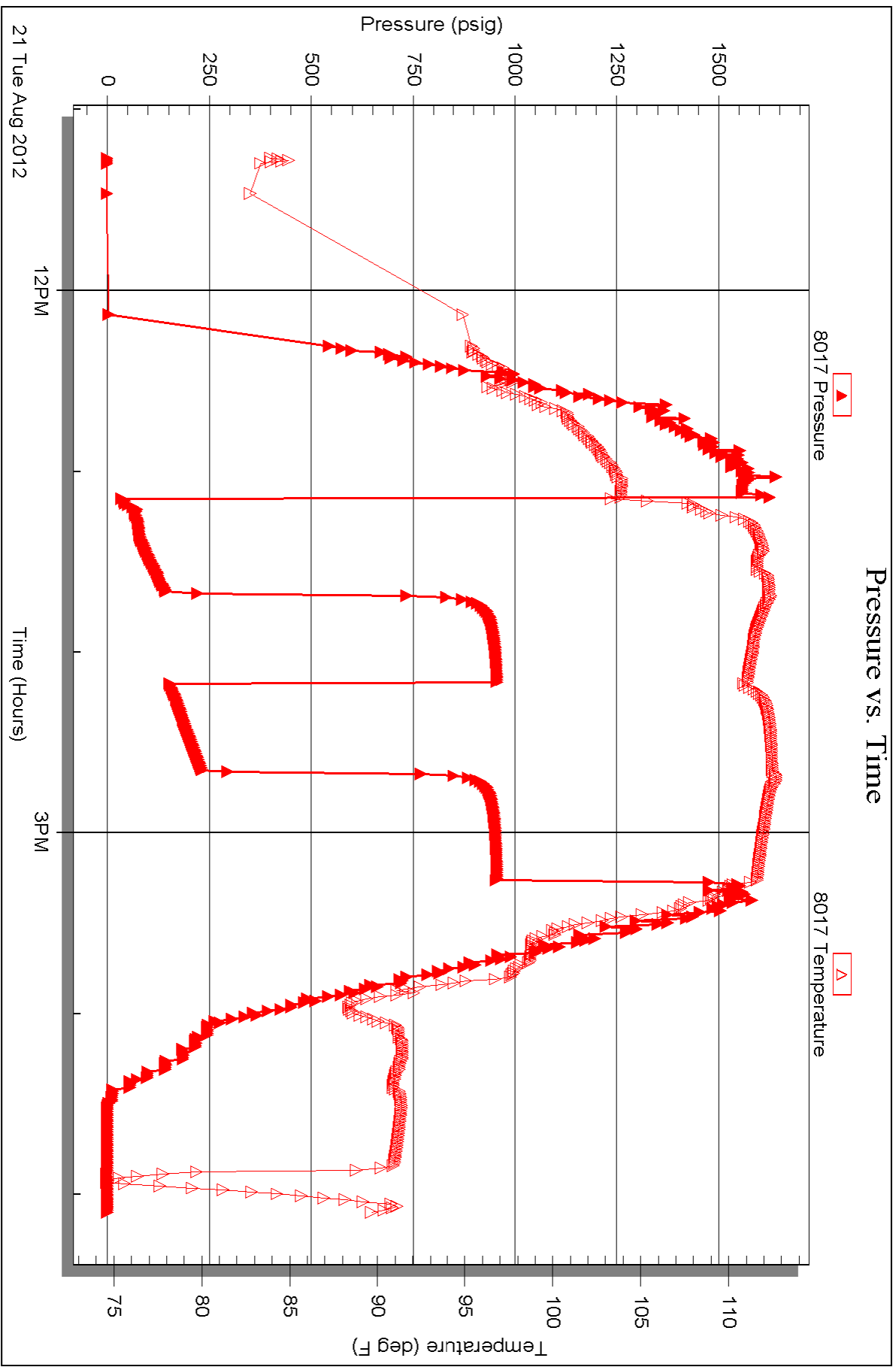
Serial #: 8017

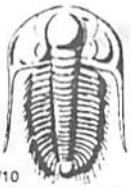
Inside

TD/Inc

Rosemary #1

DST Test Number: 1





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47918

Well Name & No. ROSEMARY #1 Test No. 1 Date 8-21-12  
 Company TDE INC Elevation 2029 KB 2019 GL  
 Address 1310 BISON RD Hays, Ks 67601  
 Co. Rep / Geo. Herb Deines Rig Southwind #1  
 Location: Sec. 9 Twp. 15 Rge. 19 Co. Ellis State Ks

Interval Tested 3344-3364 Zone Tested LKC "C"  
 Anchor Length 20' Drill Pipe Run 3356 Mud Wt. 9.1  
 Top Packer Depth 3339 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3344 Wt. Pipe Run — WL 7.6  
 Total Depth 3364 Chlorides 3900 ppm System LCM 3.5#

Blow Description LF: 3" IN 2min, 6" IN 5min, BOB 15min  
450: NO RETURN  
FF: 3" IN 4min, 6" IN 9min, 11" IN 28min.  
FSD: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>500</u>	<u>Feet of BMW</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Feet of GIP</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>500</u>	BHT <u>110°</u>	Gravity	API RW	@ °F Chlorides ppm

(A) Initial Hydrostatic 1629  Test @ 1150 T-On Location 10:10  
 (B) First Initial Flow 25  Jars T-Started 11:16  
 (C) First Final Flow 153  Safety Joint T-Open 13:10  
 (D) Initial Shut-In 958  Circ Sub T-Pulled 15:10  
 (E) Second Initial Flow 147  Hourly Standby T-Out 17:06  
 (F) Second Final Flow 237  Mileage 36RTE 55.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 957  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1572  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Sub Total 1205.80 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**OPERATOR**

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

Contact Geologist: TOM DENNING  
 Contact Phone Nbr: 785-259-3141  
 Well Name: ROSEMARY # 1  
 Location: SE SW SW Sec.9-15s-19w  
 Pool: WILDCAT  
 State: KANSAS

API: 15-051-26,347-00-00  
 Field: UNNAMED  
 Country: USA



**TDI, Inc.**  
 1310 BISON ROAD  
 HAYS, KANSAS 67601  
 (785) 628-2593

Scale 1:240 Imperial

Well Name: ROSEMARY # 1  
 Surface Location: SE SW SW Sec.9-15s-19w  
 Bottom Location:  
 API: 15-051-26,347-00-00  
 License Number: 4787  
 Spud Date: 8/16/2012 Time: 1:15 PM  
 Region: ELLIS COUNTY  
 Drilling Completed: 8/22/2012 Time: 1:55 PM  
 Surface Coordinates: 330' FSL & 990' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2019.00ft  
 K.B. Elevation: 2029.00ft  
 Logged Interval: 2900.00ft To: 3725.00ft  
 Total Depth: 3725.00ft  
 Formation: LANSING-KANSAS CITY  
 Drilling Fluid Type: FRESH WATER GEL/CHEMICAL

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:  
 N/S Co-ord: 330' FSL  
 E/W Co-ord: 990' FWL

**LOGGED BY**

Company: SOLUTIONS CONSULTING  
 Address: 108 W 35TH  
 HAYS, KS 67601

Phone Nbr: (785) 639-1337  
 Logged By: Geologist Name: HERB DEINES

**CONTRACTOR**

Contractor: SOUTHWIND DRILLING, INC.  
 Rig #: 1  
 Rig Type: MUD ROTARY

Rig Type: MUD ROTARY  
Spud Date: 8/16/2012  
TD Date: 8/22/2012  
Rig Release: 8/23/2012

Time: 1:15 PM  
Time: 1:55 PM  
Time: 5:00 AM

### ELEVATIONS

K.B. Elevation: 2029.00ft  
K.B. to Ground: 10.00ft

Ground Elevation: 2019.00ft

### NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL DUE TO NEGATIVE RESULTS OF DST # 1, LOW STRUCTURE AND LACK OF DEVELOPEMENT IN LOWER LKC ZONES.

WELL LOGGED BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG

DRILL STEM TESTER: TRILOBITE TESTING: 1 DRILL STEM TEST RAN

### FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY AND DEPTH

#### ROSEMARY # 1

330' FSL & 990' FWL, SW/4

Sec.9-15s-19w


2019' GL 2029' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite		1264+ 765
B-Anhydrite		1298+ 731
Topeka		3015- 986
Heebner Shale		3285-1256
Toronto		3306-1277
LKC		3330-1301
BKC		3580-1551
Conglomerate Sand		3677-1648
Arbuckle		3694-1665
RTD	3725-1696	
LTD		3728-1699

### SUMMARY OF DAILY ACTIVITY

- 8-16-12 RU, Spud
- 8-17-12 851', set 8 5/8" surface casing to 1261' w/450 sacks of Common, 2%Gel, 3% CC, plug down 10:00 PM, WOC 12 hours, slope 1 degree
- 8-18-12 1275', drilling
- 8-19-12 2142', drilling
- 8-20-12 2860', drilling
- 8-21-12 3364', drilling, DST # 1, 3344'-3364'
- 8-22-12 3560', drilling, RTD 3725', slope 3/4 degree, logs, P&A
- 8-23-12 3725' finish plugging well and RD

### DST # 1 TEST SUMMARY

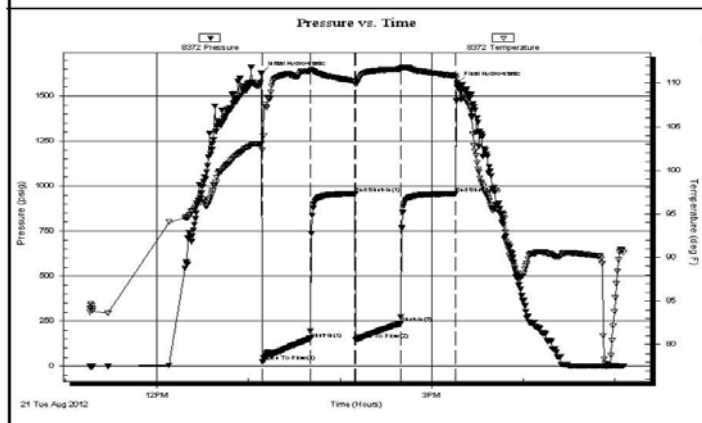
	<b>DRILL STEM TEST REPORT</b>		
	TDI inc 1310 Bison Rd Hays Ks 67601 ATTN: Herb Deines	<b>9-15-19 Ellis</b>	<b>Rosemary #1</b> Job Ticket: 47918 <b>DST#: 1</b> Test Start: 2012.08.21 @ 11:16:05

**GENERAL INFORMATION:**

Formation: <b>LKC"C"</b>	Deviated: No Whipstock:                      ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 13:09:10	Time Test Ended: 17:06:09	Tester: Andy Carreira
Interval: <b>3344.00 ft (KB) To 3364.00 ft (KB) (TVD)</b>		Unit No: 39
Total Depth: 3364.00 ft (KB) (TVD)	Hole Diameter: 7.88 inches	Reference Elevations: 2029.00 ft (KB) 2019.00 ft (CF)
Hole Condition: Poor		KB to GR/CF: 10.00 ft

<b>Serial #: 8372</b>	<b>Outside</b>		
Press@RunDepth: 237.41 psig @ 3345.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2012.08.21	End Date: 2012.08.21	Last Calib.: 2012.08.21	
Start Time: 11:16:05	End Time: 17:06:10	Time On Btm: 2012.08.21 @ 13:08:10	
		Time Off Btm: 2012.08.21 @ 15:16:50	

**TEST COMMENT:** IF:(30min) 3" in 2 min, 6" in 5 min, BOB in 15 min.  
 ISl:(30min) No Return  
 FF:(30min) 3" in 4 min, 6" in 9 min, 11" in 28 min.  
 FSl:(30min) No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.93	102.97	Initial Hydro-static
1	25.14	102.31	Open To Flow (1)
33	153.84	111.35	Shut-In(1)
62	958.03	110.22	End Shut-In(1)
62	147.57	109.85	Open To Flow (2)
92	237.41	111.58	Shut-In(2)
128	957.25	110.82	End Shut-In(2)
129	1572.51	109.88	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

500.00	GMV	7.01
0.00	GIP= 30 ft	0.00

Trilobite Testing, Inc

Ref. No: 47918

Printed: 2012.08.22 @ 08:33:15

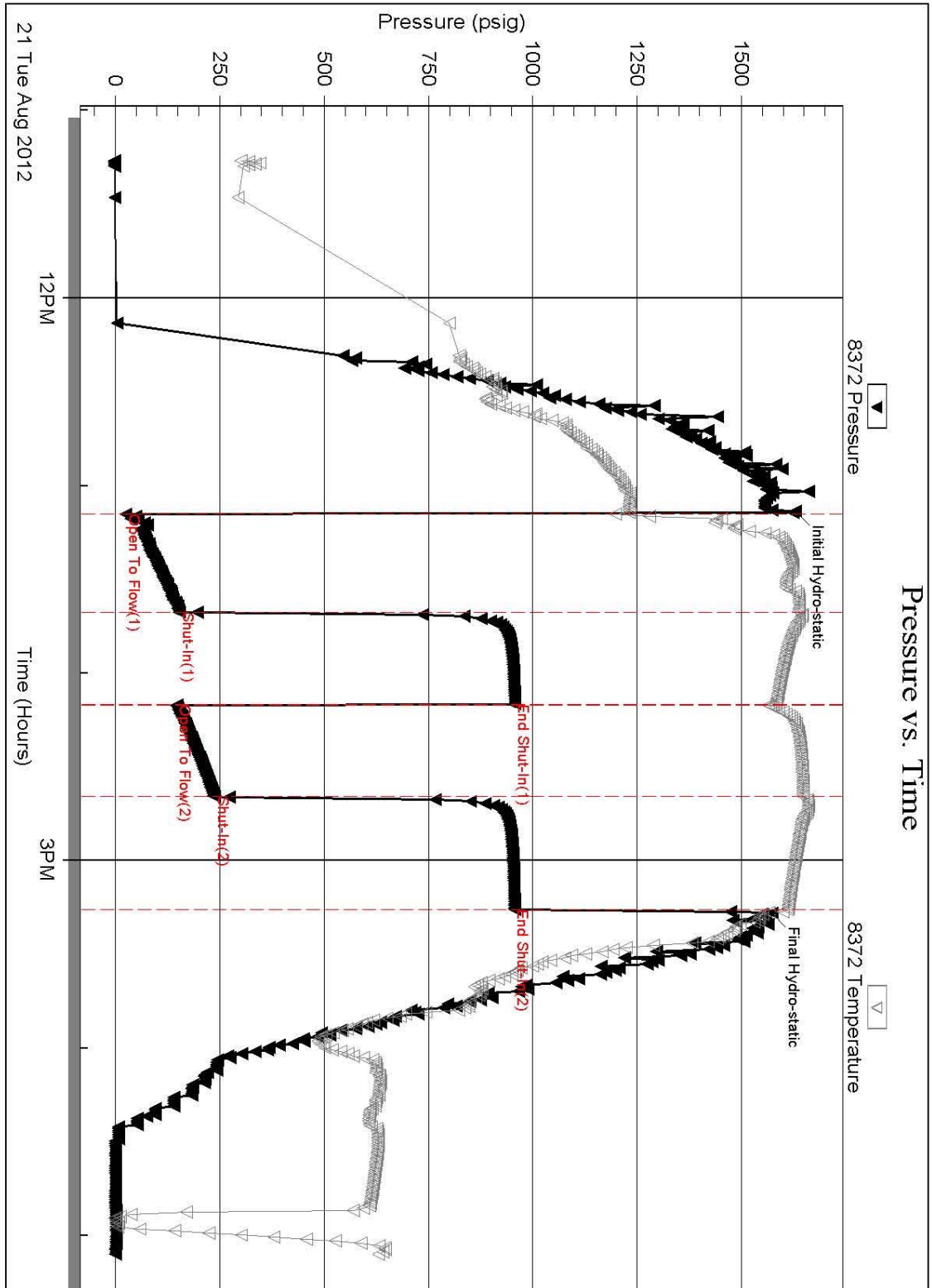
### DST # 1 EXPANDED CHART

Serial #: 8372

Outside TDI Inc

Rosemary #1

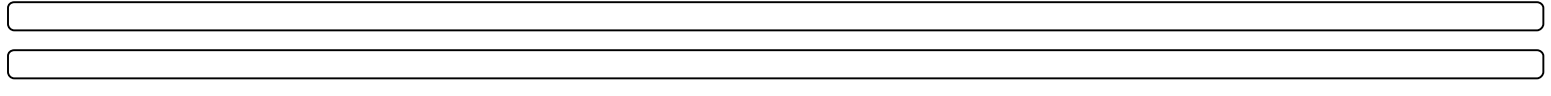
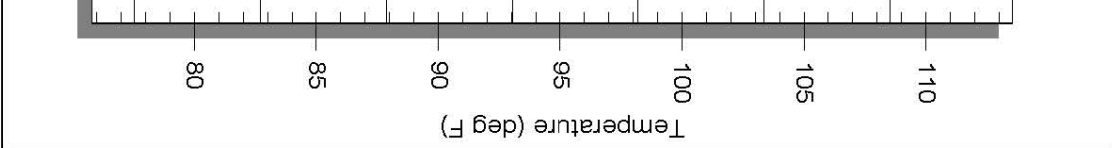
DST Test Number:



Trilobite Testing, Inc

Ref. No: 47918

Printed: 2012.08.22 @



**ROCK TYPES**

Cht vari	Dolsec	shale, gry	Ss
Congl	Lmst fw<7	Carbon Sh	Dol Lime
Chtcongl	Lmst fw>7	shale, red	CglSandy
Dolprim	shale, grn	Shcol	

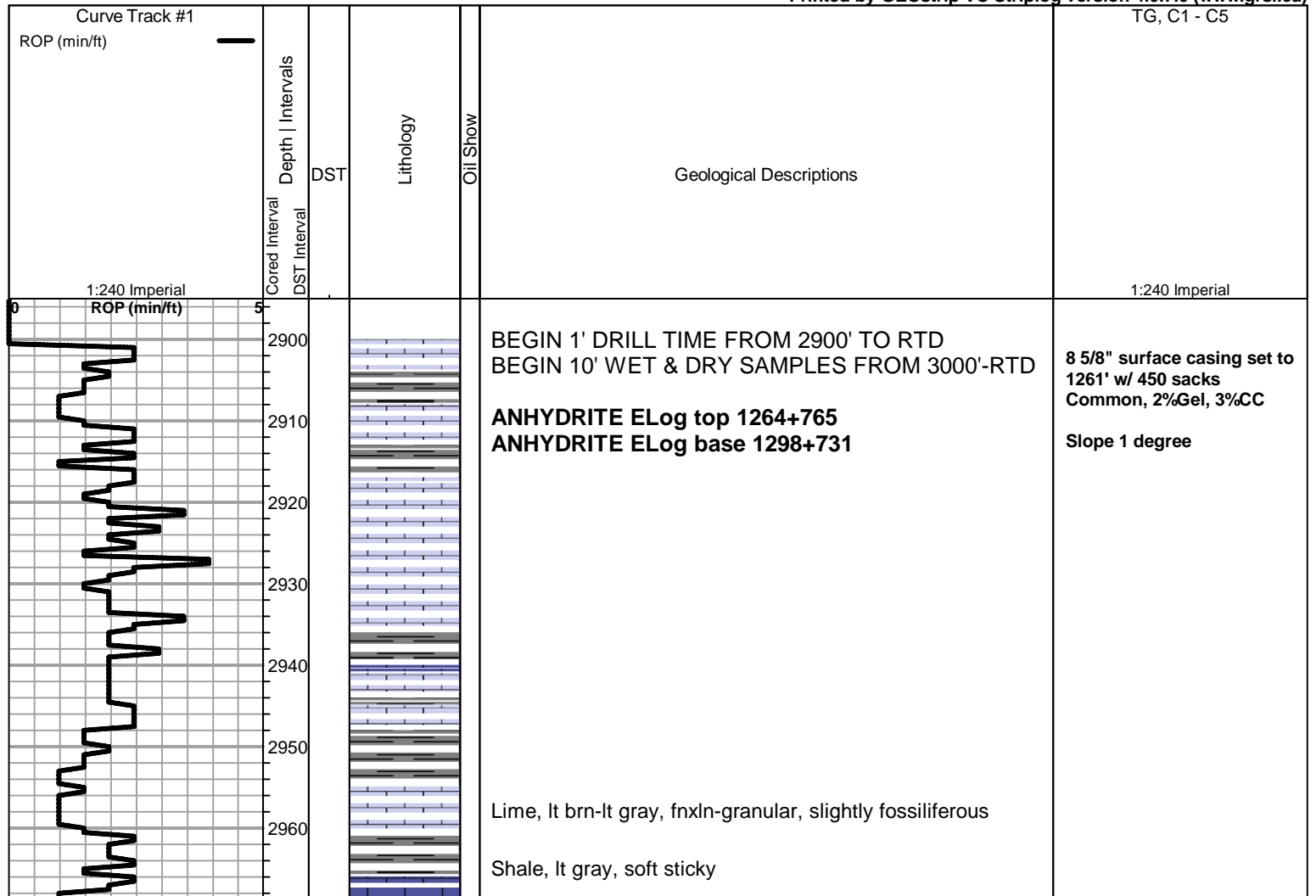
**ACCESSORIES**

<b>MINERAL</b>	<b>FOSSIL</b>
Nodules	Oolite
Pyrite	Oomoldic
Sandy	
Chert White	

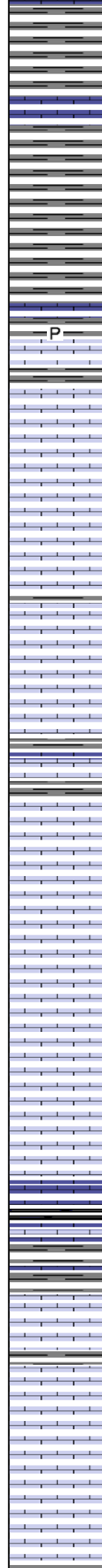
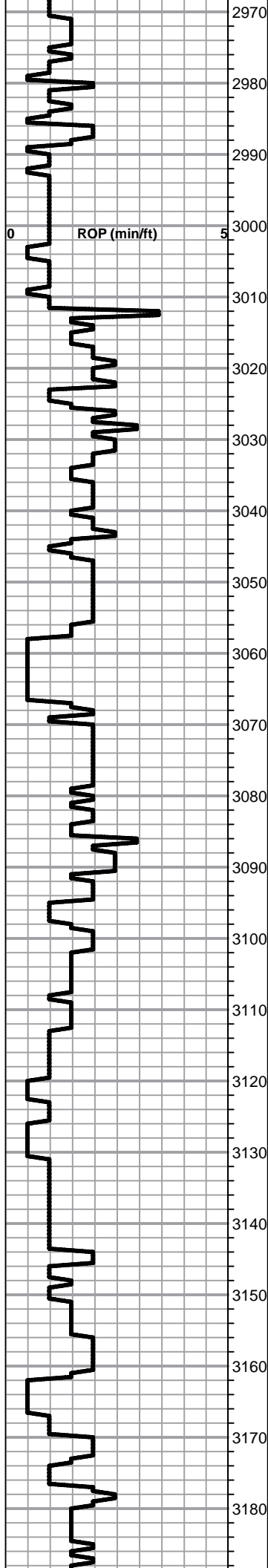
**OTHER SYMBOLS**

**DST**

- DST Int
- DST alt
- Core







Shale, lt gray-lt green, soft

Lime, lt-med gray, fnxln, slightly fossiliferous

Shale, lt-med gray, soft blocky

Lime, dark brn, fnxln, fossiliferous

**TOPEKA ELog 3015-986**

Lime, lt-med brn, fnxln, slightly fossiliferous

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

Lime, crm-lt brn, fn-vfxln, microfossiliferous, hard

Lime, lt-brn-brn-gray, fnxln

Lime, crm-lt brn, fnxln, soft chalk in part

Lime, lt brn-grayish brn, granular, slightly chalky, NS

Lime, lt brn-lt grayish brn, fnxln

Lime, lt-med brn-grayish brn, fnxln

Lime, med brn-grayish brn, fnxln, bedded chalk in part

Lime, lt-med brn, fnxln with chalky granular in part

Lime, lt-med brn, granular with chalk, slightly fossiliferous

Lime, lt-dark brn, granular

Shale, black carbonaceous, blocky, fissile

Lime, lt-dark brn, fnxln, slightly fossiliferous

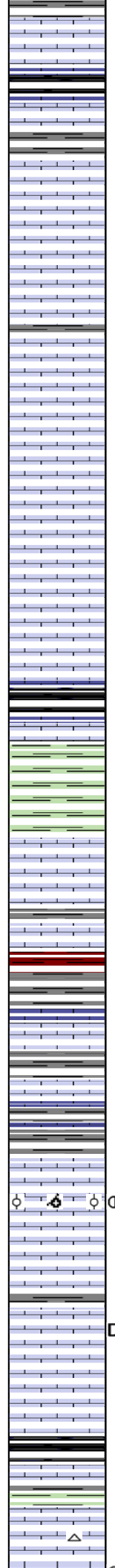
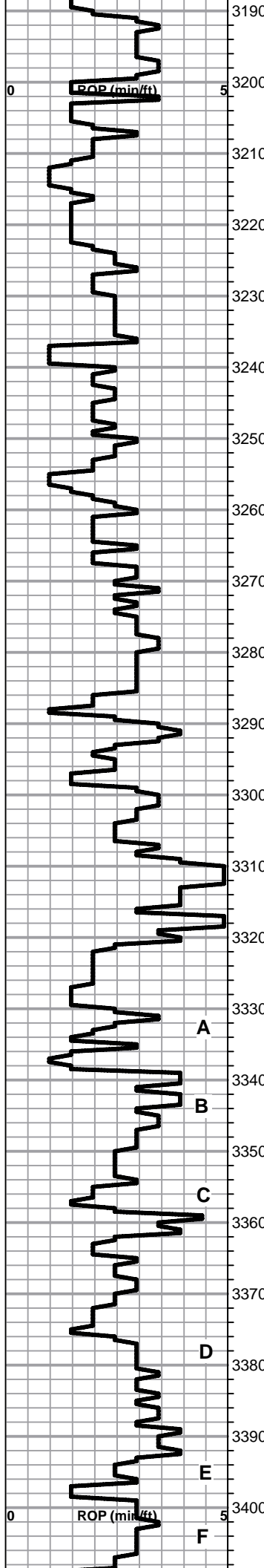
Lime, crm-lt brn, fnxln, chalky white wash

Lime, crm-tan, granular, chalky

Lime, tan-lt brn, fnxln-granular, chalky

Lime, tan-lt brn, fnxln, chalky





Lime, tan-lt brn, fnxln-vfxln, chalky in part

Shale, black carbonaceous, blocky, fissile

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

Lime, tan-lt brn, granular, chalky with sticky clumps in part

Lime, lt-brn-tan-lt grayish brn, fnxln-granular, chalky

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

Lime, tan-grayish brn, fnxln, chalk in part

Lime, lt brn, fnxln-granular, slightly chalky

Lime, lt-med brn, fn-vfxln, slightly fossiliferous

Lime, crm-lt brn, fnxln, slightly fossiliferous

**HEEBNER SHALE ELog 3285-1256**

Shale, black carbonaceous, fissile

Lime, med brn, fnxln, slightly fossiliferous

Shale, med gray-lime green, soft

**TORONTO ELog 3306-1277**

Lime, white, fnxln-cryptoxln, slight bedded chalk in part NS

Lime, white, fnxln grading into lt gray-lt green fnxln lime  
Shale, reddish brn, blocky grading into gray soft shale

**LKC ELog 3330-1301**

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

Lime, lt brn-lt gray, fn-vfxln, slightly fossiliferous

Lime,lt brn, fnxln with scattered oolitic-oomoldic lime in part  
with scattered staining, globules of free oil, vlt odor.

Lime, lt-med brn, fn-vfxln

Lime, tan-lt brn, mostly fnxln with chips containing gilsonite,  
poor visible porosity

Lime, crm-tan, fn-vfxln

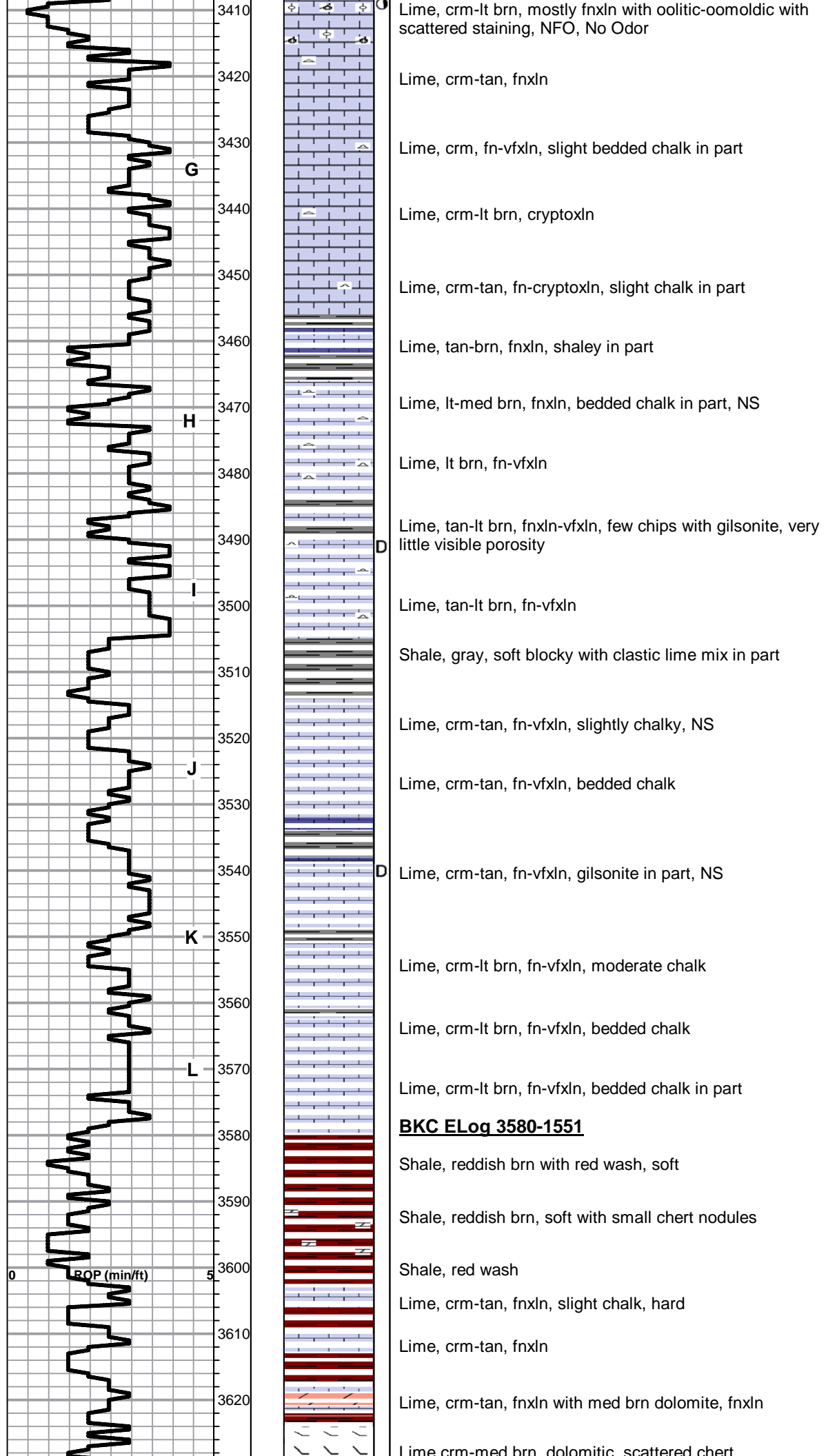
Shale, gray-black carbonaceous, fissile, blocky

Lime, med brn, fnxln

Shale, lt green, forming soft mud balls

Lime, crm-tan, fnxln, bedded chalk in part

**DST # 1 3344'-3364'**  
**SEE HEADER FOR TEST**  
**SUMMARY**





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 723

Date	8-16-10	Sec.	9	Twp.	13	Range	19	County	Ellis	State	KS	On Location	4:30 pm	Finish	10:00 pm
Lease	Rosemary	Well No.	#1	Location		Ahtipho 3W 25 & N 10									
Contractor	Southwind #1					Owner									
Type Job	Surface					To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	12 1/4					T.D.					1275				
Csg.	858					Depth					1273				
Tbg. Size						Depth									
Tool						Depth									
Cement Left in Csg.	28.42					Shoe Joint					28.42				
Meas Line						Displace					79 BL				
										The above was done to satisfaction and supervision of owner agent or contractor.					
										Cement Amount Ordered					
										450 3% CC 2% gel					

**EQUIPMENT**

Pumptrk	#9	No.	Cementer	Matt	Common	450
			Helper			
Bulktrk	#12	No.	Driver	Trous	Poz. Mix	
			Driver			
Bulktrk		No.	Driver	Cody	Gel.	9
			Driver			

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 475
	Mileage
Cement and G. Gel	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	3, 8 5/8
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	Dottle plate
	Rubber plug
Pumptrk Charge	Long Surface
Mileage	14

X Signature	Arling R.	Tax	
		Discount	
		Total Charge	



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 25, 2012

Tom Denning  
TDI, Inc.  
1310 BISON RD  
HAYS, KS 67601-9696

Re: ACO1  
API 15-051-26347-00-00  
Rosemary 1  
SW/4 Sec.09-15S-19W  
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Tom Denning