

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE <sup>25897</sup>

OPERATOR: License # 4787  
Name: TDI, Inc  
Address 1: 1310 Bison Road  
Address 2: \_\_\_\_\_  
City: Hays State: KS Zip: 67601 + 9696  
Contact Person: Tom Denning  
Phone: (785) 628-2593  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co., Inc.  
Wellsite Geologist: Herb Deines  
Purchaser: Coffeyville Resources

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, 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: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Docket No.: \_\_\_\_\_  
 Dual Completion Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
10-19-09      10-23-09      1-02-10  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date           Recompletion Date

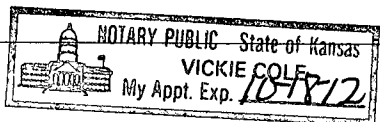
API No. 15 - 051-255897-00-00  
Spot Description: \_\_\_\_\_  
W/2 SW SE NW Sec. 9 Twp. 15 S. R. 18  East  West  
2310 Feet from  North /  South Line of Section  
1570 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ellis  
Lease Name: Staab Well #: 1  
Field Name: Ruder  
Producing Formation: Arbuckle  
Elevation: Ground: 2017 Kelly Bushing: 2025  
Total Depth: 3749' Plug Back Total Depth: 3720'  
Amount of Surface Pipe Set and Cemented at: 219 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1207' Feet  
If Alternate II completion, cement circulated from: 1207  
feet depth to: surface w/ 130 sx cmt.

Drilling Fluid Management Plan AH II NR 1-25-10  
(Data must be collected from the Reserve Pit)  
Chloride content: 48,000 ppm Fluid volume: 1000 bbls  
Dewatering method used: evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]  
Title: President Date: 1/15/2010  
Subscribed and sworn to before me this 15th day of January,  
2010.  
Notary Public: [Signature]  
Date Commission Expires: \_\_\_\_\_



KCC Office Use ONLY  
 Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

RECEIVED  
JAN 19 2010  
KCC WICHITA

Operator Name: \_\_\_\_\_ Lease Name: **Staab** Well #: **1**  
 Sec. **9** Twp. **15** S. R. **18**  East  West County: **Ellis**

**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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

- Microresistivity Log,
- Dual Induction Log
- Dual Compensated Porosity Log

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Anhydrite	1195'	+830
Topeka	2990'	-965'
Heebner	3264'	-1239'
Lansing/ KC	3312'	-1287'
Base KC	3541'	-1516'
Arbuckle	3602'	-1577'
RTD	3752'	-1727'

**CASING RECORD**  New  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
Surface	12 1/4"	8 5/8"	20#	219'	60/40 Poz	150	3%cc2%gel
Production	7 7/8"	5 1/2"	15.5#	3747'	EA2 & SMD	150 & 175	

**ADDITIONAL CEMENTING / SQUEEZE RECORD**

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

**PERFORATION RECORD - Bridge Plugs Set/Type**  
Specify Footage of Each Interval Perforated

**Acid, Fracture, Shot, Cement Squeeze Record**  
(Amount and Kind of Material Used)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 spf	3603' to 3610'	none	

TUBING RECORD: Size: **2 7/8"** Set At: **3716'** Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or Enhr. **1/11/2010** Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours: Oil **60** Bbls. Gas **Mcf** Water **1 1/2** Bbls. Gas-Oil Ratio \_\_\_\_\_ Gravity **30**

DISPOSITION OF GAS:  
 Vented  Sold  Used on Lease  
 (If vented, Submit ACO-18.)

METHOD OF COMPLETION:  
 Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

PRODUCTION INTERVAL:  
**3603' to 3610'**

**JOB LOG**

**SWIFT Services, Inc.**

DATE **10-24-09** PAGE NO. **7**

CUSTOMER **TDI** WELL NO. **#1** LEASE **Staab** JOB TYPE **2-stage** TICKET NO. **10755**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1045							oalac w/FE
								RTD 3749' LTD 3753' 5 1/2" x 15.5# x 3753' x 21' Cent. 1, 3, 5, 7, 9, 11, 15, 59, 76 Bask. 2, 16, 80, 76 DV 60 @ 1212'
	1315							Start FE
	1500							Break Circ.
	1535	7.5	0			200		Start Mudflush 500gal
			12/0					Start KCl flush 20 bbl
		5	10/0			250		Start Cement 150 sks EA-2
	1551		36					End Cement wash P&L Drop Plug
	1555	6	0			200		Start Displacement
	1607	5	70			250		Catch Cement → lost circ for 8-10 bbl
	1611		89					Land Plug Release Pressure / MH hold
	1613							Drop Opening Plug
	1725	2.5	7/4			1100		Plug RH+MH / Open D.V. Tool
	1725	5	0					Start KCl flush
	1730	5.5	20/0					Start Cement
	1740		70					End Cement Drop Closing Plug
	1743	5	0			100		Start Displacement
		5	20			300		Circ Cement
	1750		29			400		Land Plug
						1500		Close D.V. <span style="border: 1px solid black; padding: 2px;">circ <del>circ</del> between stages</span>
								Release Pressure DV Closed

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circ 20 sks to pit

Thank you  
Nick, Sash F. + Blaine

# ALLIED CEMENTING CO., LLC. 33623

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell KS

DATE <u>10-19-09</u>	SEC. <u>9</u>	TWP. <u>15</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00pm</u>	JOB FINISH <u>12:30pm</u>
LEASE <u>Staab</u>	WELL # <u>1</u>		LOCATION <u>Hays KS South 1 mile south of</u>		COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>Antonina Rd 3/4 West South into</u>				

CONTRACTOR Duke Drilling Rig #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 220'

CASING SIZE 8 3/8 20" DEPTH 219

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 12.99 BBL

EQUIPMENT

PUMP TRUCK CEMENTER John Roberts

# 417 HELPER Wayne

BULK TRUCK

# 410 DRIVER Chris

BULK TRUCK

# DRIVER

OWNER

CEMENT

AMOUNT ORDERED 150 6 1/4 3% cc 2 1/2 Gal

COMMON	<u>90</u>	@ <u>13.50</u>	<u>1215.00</u>
POZMIX	<u>60</u>	@ <u>7.55</u>	<u>453.00</u>
GEL	<u>3</u>	@ <u>20.21</u>	<u>60.21</u>
CHLORIDE	<u>5</u>	@ <u>51.50</u>	<u>257.50</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>150</u>	@ <u>2.25</u>	<u>337.50</u>
MILEAGE	<u>SK/mi/10</u>		<u>375.00</u>
TOTAL			<u>2678.75</u>

REMARKS:

Est. Circulation

Mix 150 sk cement

Displace w/ 13 Bbl H<sub>2</sub>O

Cement Did Circulate!

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 991.00

EXTRA FOOTAGE @

MILEAGE 25 @ 7.00 175

MANIFOLD @

@

@

TOTAL 1166.00

CHARGE TO: TDI

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@ **RECEIVED**

@

@ **JAN 19 2010**

@

**KCC WICHITA**

To Allied Cementing Co., LLC.  
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.

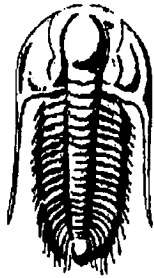
PRINTED NAME

SIGNATURE John Roberts

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd  
Hays, KS 67601

ATTN: Herb Deines

**9-15s-18w Ellis KS**

### Staab #1

Start Date: 2009.10.23 @ 21:47:12

End Date: 2009.10.24 @ 05:36:57

Job Ticket #: 35575      DST #: 1

**RECEIVED**

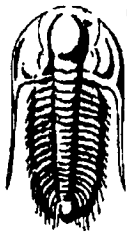
**JAN 19 2010**

**KCC WICHITA**

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TDI Inc.  
1310 Bison Rd  
Hays, KS 67601  
ATTN: Herb Deines

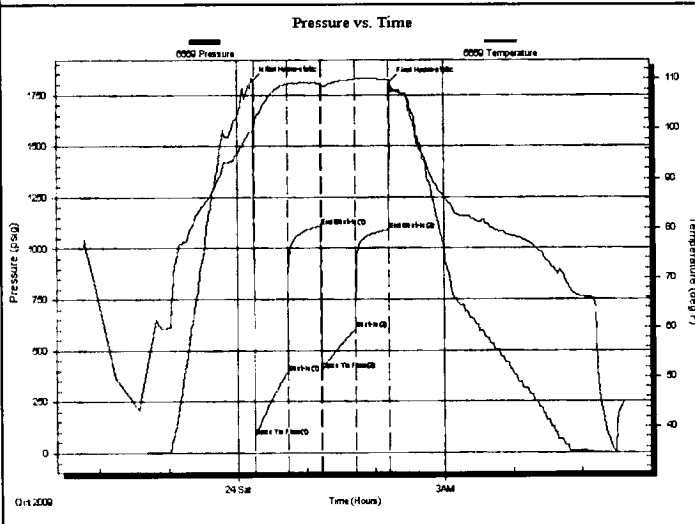
**Staab #1**  
**9-15s-18w Ellis KS**  
Job Ticket: 35575      **DST#: 1**  
Test Start: 2009.10.23 @ 21:47:12

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 00:14:27  
 Time Test Ended: 05:36:57  
 Interval: **3596.00 ft (KB) To 3626.00 ft (KB) (TVD)**  
 Total Depth: 3752.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Straddle  
 Tester: Tyson Flax  
 Unit No: 44  
 Reference Elevations: 2030.00 ft (KB)  
 2022.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6669      Inside**  
 Press@RunDepth: 605.40 psig @ 3597.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2009.10.23      End Date: 2009.10.24      Last Calib.: 2009.10.24  
 Start Time: 21:47:13      End Time: 05:36:57      Time On Btm: 2009.10.24 @ 00:13:57  
 Time Off Btm: 2009.10.24 @ 02:13:57

**TEST COMMENT:** IFP-BOB in 1.75 min  
 IS-Weak blow back built to 7"  
 FFP-BOB in 2.5 min  
 FSI-Weak blow back built to 1.5"



## PRESSURE SUMMARY

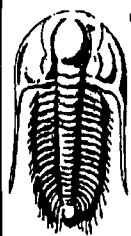
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1818.58	99.81	Initial Hydro-static
1	82.71	100.22	Open To Flow (1)
30	389.37	108.91	Shut-In(1)
59	1108.79	109.14	End Shut-In(1)
60	403.39	108.92	Open To Flow (2)
90	605.40	109.97	Shut-In(2)
119	1089.88	109.90	End Shut-In(2)
120	1815.88	108.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCMW 20%O,50%V,30%r	1.70
120.00	GOCM 20%G,30%O,50%M	1.70
1210.00	CO	17.15
0.00	170' GIP	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

**Staab #1**  
**9-15s-18w Ellis KS**  
Job Ticket: 35575      **DST#: 1**  
Test Start: 2009.10.23 @ 21:47:12

ATTN: Herb Deines

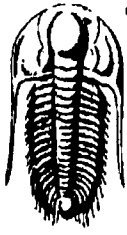
**Tool Information**

Drill Pipe:	Length: 3588.00 ft	Diameter: 3.82 inches	Volume: 50.86 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3596.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	3626.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	179.00 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			3576.00	
Shut In Tool	5.00			3581.00	
Hydraulic tool	5.00			3586.00	
Packer	5.00			3591.00	21.00      Bottom Of Top Packer
Packer	5.00			3596.00	
Stubb	1.00			3597.00	
Recorder	0.00	6669	Inside	3597.00	
Perforations	25.00			3622.00	
Recorder	0.00	13401	Inside	3622.00	
Blank Off Sub	1.00			3623.00	
Stubb	3.00			3626.00	30.00      Tool Interval
Packer	1.00			3627.00	
Stubb	1.00			3628.00	
Perforations	1.00			3629.00	
Change Over Sub	1.00			3630.00	
Recorder	0.00	6719	Outside	3630.00	
Blank Spacing	123.00			3753.00	
Perforations	1.00			3754.00	128.00      Bottom Packers & Anchor

**Total Tool Length: 179.00**



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

TDI Inc.  
1310 Bison Rd  
Hays, KS 67601

**Staab #1**  
**9-15s-18w Ellis KS**  
Job Ticket: 35575      **DST#: 1**  
Test Start: 2009.10.23 @ 21:47:12

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5600.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
120.00	OCMV 20%O,50%W,30%m	1.701
120.00	GOCM 20%G,30%O,50%M	1.701
1210.00	CO	17.152
0.00	170' GIP	0.000

Total Length: 1450.00 ft      Total Volume: 20.554 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



