



KANSAS CORPORATION COMMISSION 1108303
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4787
Name: TDI, Inc.
Address 1: 1310 BISON RD
Address 2: _____
City: HAYS State: KS Zip: 67601 + 9696
Contact Person: Tom Denning
Phone: (785) 628-2593
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Herb Deines
Purchaser: Coffeyville Resources

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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>8/31/2012</u>	<u>9/9/2012</u>	<u>10/18/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26346-00-00

Spot Description: _____
N2 NE SE NW Sec. 8 Twp. 15 S. R. 19 East West
1425 Feet from North / South Line of Section
2310 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Ellis
Lease Name: Dinges Family Well #: 1
Field Name: Wildcat

Producing Formation: Lansing / Kansas City
Elevation: Ground: 2027 Kelly Bushing: 2037

Total Depth: 3704 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 213 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1266 Feet
If Alternate II completion, cement circulated from: 1266
feet depth to: 0 w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 88000 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated

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

Letter of Confidentiality Received
Date: 01/16/2013
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 01/17/2013

1108303

Operator Name: TDI, Inc. Lease Name: Dinges Family Well #: 1
 Sec. 8 Twp. 15 S. R. 19 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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1275'	+762'
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3024'	-987'
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3295'	-1258'
List All E. Logs Run:		Lansing/Kansas City	3340'	-1303'
<small>Dual Induction Log Dual Compensated Porosity Log Microresistivity Log</small>		Base Kansas City	3588'	-1551'
		Conglomerate	3665'	-1628'

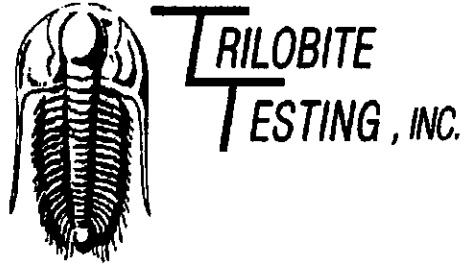
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	213	Common	150	2% gel, 3% cc
Production	7.875	5.5	14	3702	EA-2	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-1266	SMD	155	1/4# flo-seal

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
4	3365'-3369'	1250 gals. 15%	
4	3421'-3425'	250 gals. 15%	
4	3500'-3502'		

TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>3472'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR:	<u>1/2/2013</u>			
Producing Method:	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil <u>40</u>	Bbls.	Gas <u>15</u>	Mcf
			Water <u>15</u>	Bbls.
			Gas-Oil Ratio	Gravity <u>36</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: <u>Lansing / Kansas City</u>
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DRILL STEM TEST REPORT

Prepared For: **TDI Inc**
1310 Bison Rd
Hays KS 67601-9696

ATTN: Tom Denning

Dinges Family #1

8-15s-19w Ellis,KS

Start Date: 2012.09.07 @ 14:50:24
End Date: 2012.09.07 @ 21:16:18
Job Ticket #: 48679 DST #: 1

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

Printed: 2012.09.13 @ 14:45:25

TDI Inc
8-15s-19w Ellis,KS
Dinges Family #1
DST # 1
LKC "C"
2012.09.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

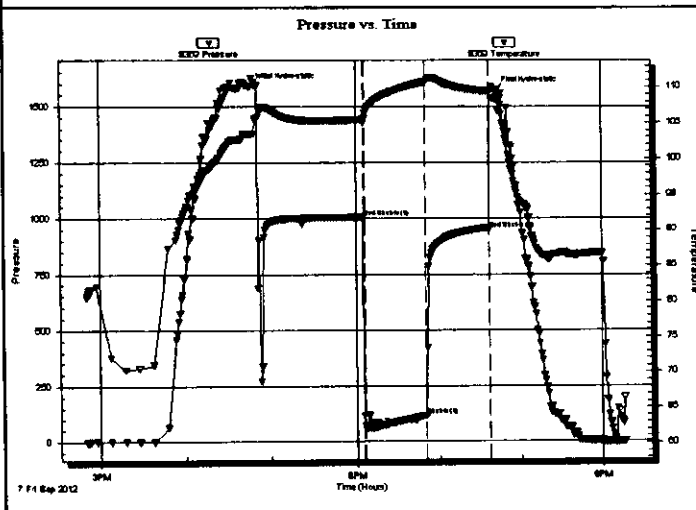
8-15s-19w Ellis, KS
Dinges Family #1
Job Ticket: 48679 **DST#: 1**
Test Start: 2012.09.07 @ 14:50:24

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:06:19
 Time Test Ended: 21:16:18
 Interval: **3355.00 ft (KB) To 3377.00 ft (KB) (TVD)**
 Total Depth: 3377.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2037.00 ft (KB)
 2027.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8369 Inside
 Press@RunDepth: 116.52 psig @ 3356.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.07 End Date: 2012.09.07 Last Calib.: 2012.09.07
 Start Time: 14:50:24 End Time: 21:16:18 Time On Btm: 2012.09.07 @ 16:45:19
 Time Off Btm: 2012.09.07 @ 19:41:48

TEST COMMENT: 30-IFP-w k to a fr bl 1/2" to 4 1/4" bl
 45-ISIP-no bl
 45-FFP-strg bl in 2 min
 45-FSIP-strg bl bk in 7 min



PRESSURE SUMMARY

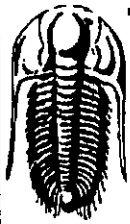
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.48	103.45	Initial Hydro-static
80	1007.58	105.48	End Shut-In(1)
81	72.71	105.61	Open To Flow (1)
126	116.52	110.74	Shut-In(1)
172	949.13	109.34	End Shut-In(2)
177	1571.73	108.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	870'GIP	0.00
5.00	O&GCM 10-%G10&O80%M	0.07
62.00	GMO 50%G20%M30%O	0.87
62.00	GMO 40%G10%M50%O	0.87
124.00	CO	1.74
5.00	Water	0.07

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 67601-9696
ATTN: Tom Denning

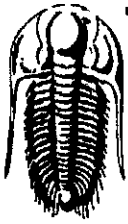
8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 48679 **DST#: 1**
Test Start: 2012.09.07 @ 14:50:24

Tool Information

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.12 bbl</u>	Tool Chased 12.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3355.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 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			3335.00	
Shut In Tool	5.00			3340.00	
Hydraulic tool	5.00			3345.00	
Packer	5.00			3350.00	21.00 Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Recorder	0.00	8369	Inside	3356.00	
Recorder	0.00	8700	Outside	3356.00	
Perforations	18.00			3374.00	
Bullnose	3.00			3377.00	22.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 48679 **DST#: 1**
Test Start: 2012.09.07 @ 14:50:24

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.57 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	870'GIP	0.000
5.00	O&GCM 10-%G10&O80%M	0.070
62.00	GMO 50%G20%M30%O	0.870
62.00	GMO 40%G10%M50%O	0.870
124.00	CO	1.739
5.00	Water	0.070

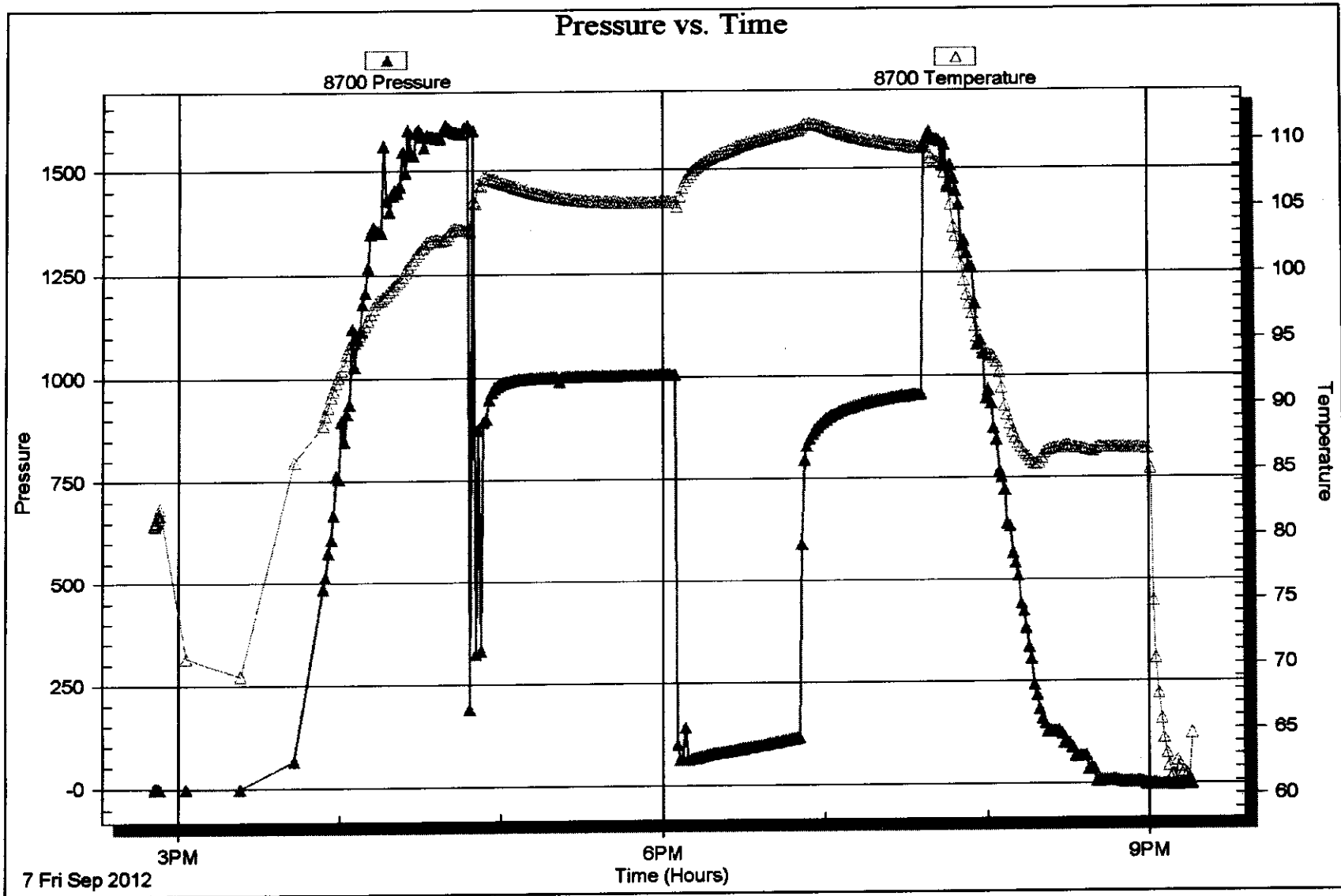
Total Length: 258.00 ft Total Volume: 3.619 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

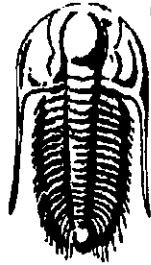
Serial #: 8700

Outside TDI Inc

Dinges Family #1

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601-9696

ATTN: Tom Denning

Dinges Family #1

8-15s-19w Ellis,KS

Start Date: 2012.09.08 @ 04:30:00

End Date: 2012.09.08 @ 09:19:30

Job Ticket #: 49468 DST #: 2

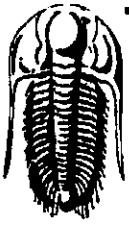
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.13 @ 14:48:29

TDI Inc
8-15s-19w Ellis,KS
Dinges Family #1
DST # 2
LKC - "D-top of "G"
2012.09.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

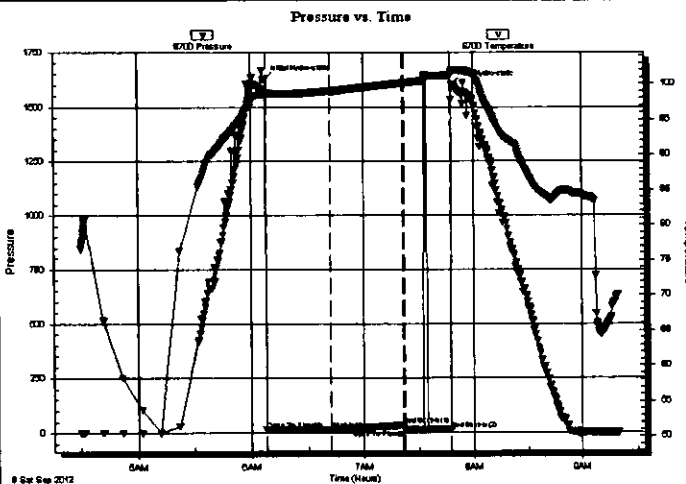
8-15s-19w Ellis, KS
Dinges Family #1
Job Ticket: 49468 **DST#: 2**
Test Start: 2012.09.08 @ 04:30:00

GENERAL INFORMATION:

Formation: **LKC - "D-top of "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:08:00
 Time Test Ended: 09:19:30
 Interval: **3377.00 ft (KB) To 3414.00 ft (KB) (TVD)**
 Total Depth: **3414.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 42
 Reference Elevations: 2037.00 ft (KB)
 2027.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8700 Outside
 Press@RunDepth: 14.74 psig @ 3378.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.08 End Date: 2012.09.08 Last Calib.: 2012.09.08
 Start Time: 04:30:05 End Time: 09:19:29 Time On Btm: 2012.09.08 @ 06:07:30
 Time Off Btm: 2012.09.08 @ 07:48:30

TEST COMMENT: 30 - IF- 1/4" Blow and Dying
 45 - IS- No blow back.
 20 - FF- Waited 10 Mn, no blow , Flushed tool, surged and died, w aited 10 Mn. Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.63	98.87	Initial Hydro-static
1	12.55	98.55	Open To Flow (1)
35	14.74	98.99	Shut-in(1)
74	35.15	100.11	End Shut-in(1)
75	13.41	100.13	Open To Flow (2)
100	14.10	101.21	End Shut-in(2)
101	1600.40	101.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - Oil Scum, 100%M	0.07

* Recovery from multiple tests

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 67601-9696
ATTN: Tom Denning

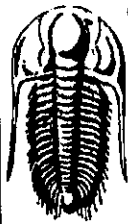
8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 49468 **DST#: 2**
Test Start: 2012.09.08 @ 04:30:00

Tool Information

Drill Pipe:	Length: 3361.00 ft	Diameter: 3.80 inches	Volume: 47.15 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 47.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3377.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	58.00 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			3357.00	
Shut In Tool	5.00			3362.00	
Hydraulic tool	5.00			3367.00	
Packer	5.00			3372.00	21.00 Bottom Of Top Packer
Packer	5.00			3377.00	
Stubb	1.00			3378.00	
Recorder	0.00	8369	Inside	3378.00	
Recorder	0.00	8700	Outside	3378.00	
Perforations	33.00			3411.00	
Bullnose	3.00			3414.00	37.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 49468 **DST#: 2**
Test Start: 2012.09.08 @ 04:30:00

Mud and Cushion Information

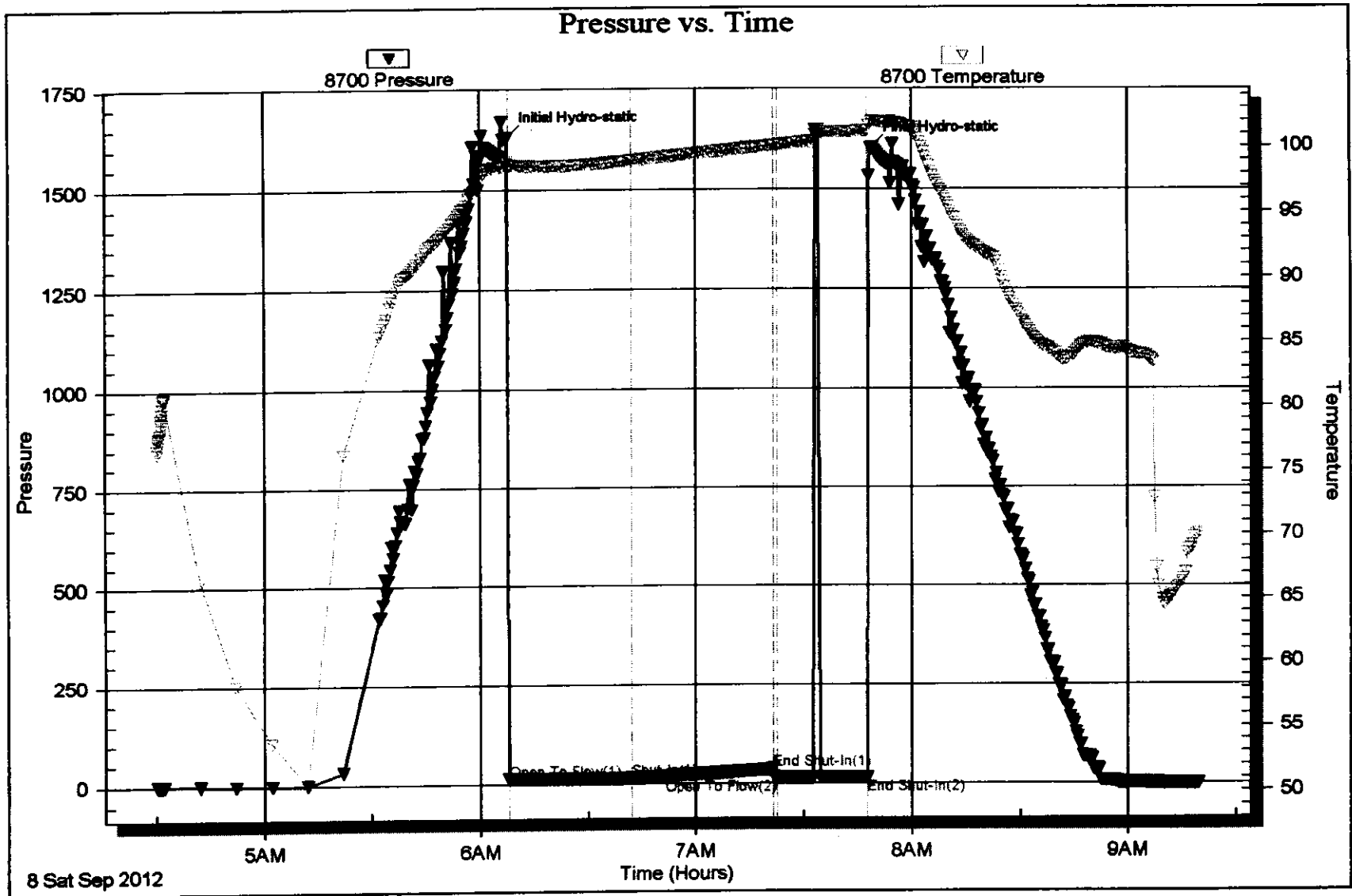
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - Oil Scum, 100%M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

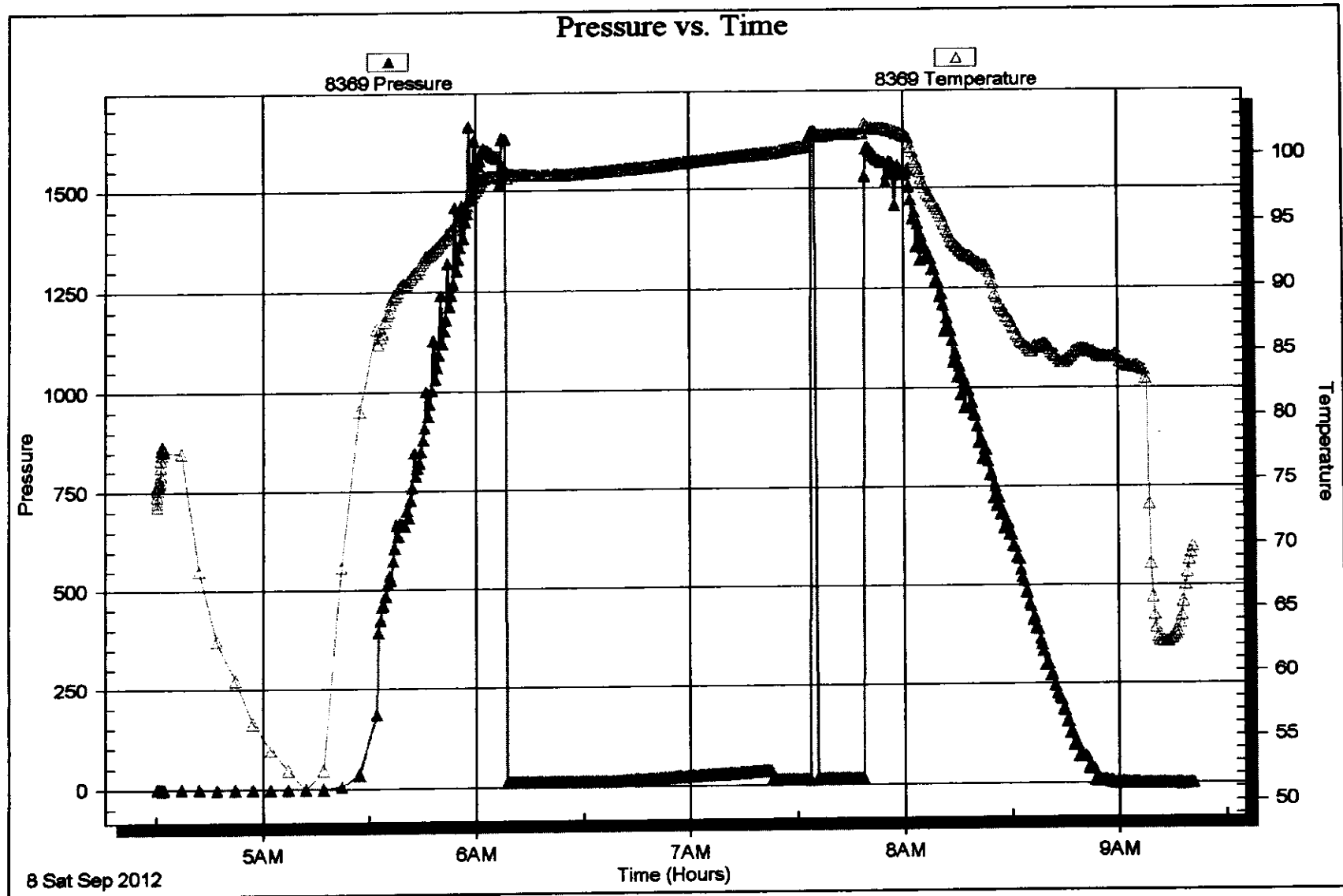


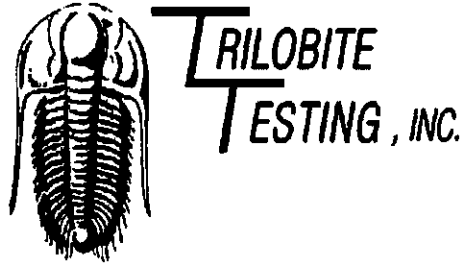
Serial #: 8369

Inside TDI Inc

Dinges Family #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601-9696

ATTN: Tom Denning

Dinges Family #1

8-15s-19w Ellis,KS

Start Date: 2012.09.08 @ 21:00:00

End Date: 2012.09.09 @ 02:59:30

Job Ticket #: 49469 DST #: 3

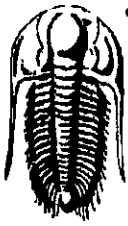
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.13 @ 14:30:08

TDI Inc
8-15s-19w Ellis,KS
Dinges Family #1
DST # 3
H,I,J
2012.09.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc
 1310 Bison Rd
 Hays KS 67601-9696
 ATTN: Tom Denning

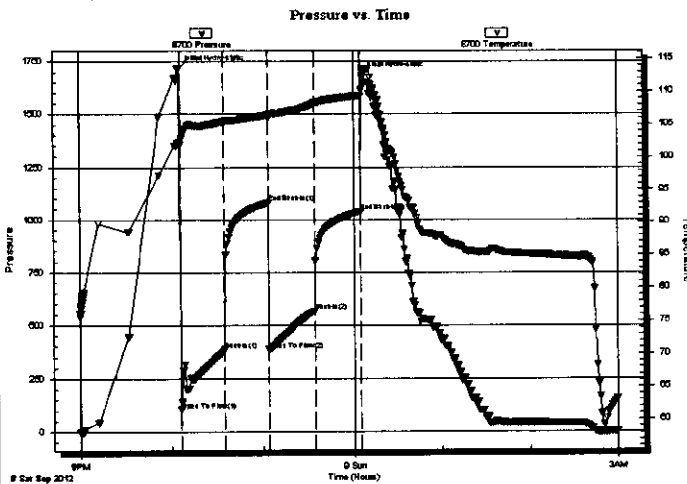
8-15s-19w Ellis,KS
Dinges Family #1
 Job Ticket: 49469 **DST#: 3**
 Test Start: 2012.09.08 @ 21:00:00

GENERAL INFORMATION:

Formation: **H,I,J**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **22:06:00** Tester: **Cody Bloedorn**
 Time Test Ended: **02:59:30** Unit No: **42**
 Interval: **3428.00 ft (KB) To 3540.00 ft (KB) (TVD)** Reference Elevations: **2037.00 ft (KB)**
 Total Depth: **3540.00 ft (KB) (TVD)** **2027.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **10.00 ft**

Serial #: 8700 **Outside**
 Press@RunDepth: **567.39 psig @ 3527.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.09.08** End Date: **2012.09.09** Last Calib.: **2012.09.09**
 Start Time: **21:00:05** End Time: **02:59:29** Time On Btm: **2012.09.08 @ 22:05:30**
 Time Off Btm: **2012.09.09 @ 00:06:00**

TEST COMMENT: 30 - IF- B.O.B. in 2 Min.
 30 - IS- No blow back.
 30 - FF- B.O.B. in 3 Min.
 30 - FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.38	102.19	Initial Hydro-static
1	105.15	101.92	Open To Flow (1)
29	385.20	105.37	Shut-In(1)
58	1081.52	106.35	End Shut-In(1)
59	385.71	106.07	Open To Flow (2)
89	567.39	108.10	Shut-In(2)
120	1039.66	109.31	End Shut-In(2)
121	1685.09	112.96	Final Hydro-static

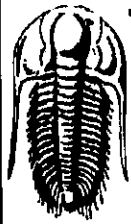
Recovery

Length (ft)	Description	Volume (bbl)
186.00	Mud, 100%M	2.61
682.00	MW, 5%M, 95%W	9.57
124.00	Mud, 100%M	1.74

* Recovery from multiple tests

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 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 49469 **DST#: 3**
Test Start: 2012.09.08 @ 21:00:00

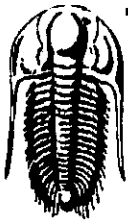
Tool Information

Drill Pipe:	Length: 3425.00 ft	Diameter: 3.80 inches	Volume: 48.04 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 48.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3428.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	133.00 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			3408.00	
Shut In Tool	5.00			3413.00	
Hydraulic tool	5.00			3418.00	
Packer	5.00			3423.00	21.00 Bottom Of Top Packer
Packer	5.00			3428.00	
Stubb	1.00			3429.00	
Perforations	3.00			3432.00	
Change Over Sub	1.00			3433.00	
Drill Pipe	93.00			3526.00	
Change Over Sub	1.00			3527.00	
Recorder	0.00	8369	Inside	3527.00	
Recorder	0.00	8700	Outside	3527.00	
Perforations	10.00			3537.00	
Bullnose	3.00			3540.00	112.00 Bottom Packers & Anchor

Total Tool Length: 133.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 49469 **DST#: 3**
Test Start: 2012.09.08 @ 21:00:00

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:	60000 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

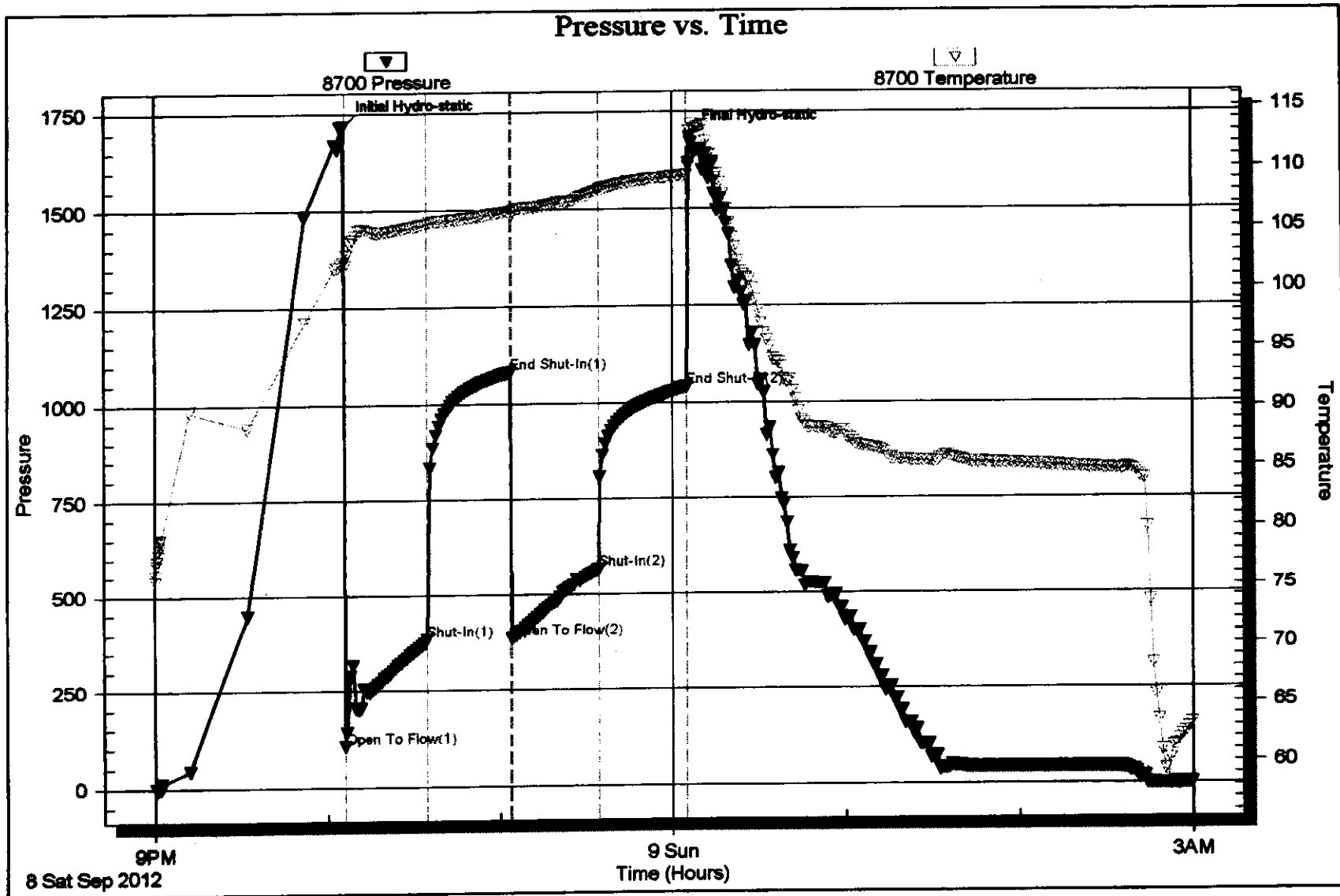
Length ft	Description	Volume bbl
186.00	Mud, 100%M	2.609
682.00	MW, 5%M, 95%W	9.567
124.00	Mud, 100%M	1.739

Total Length: 992.00 ft Total Volume: 13.915 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .15 @ 60 Degrees = 60,000 Chlorides

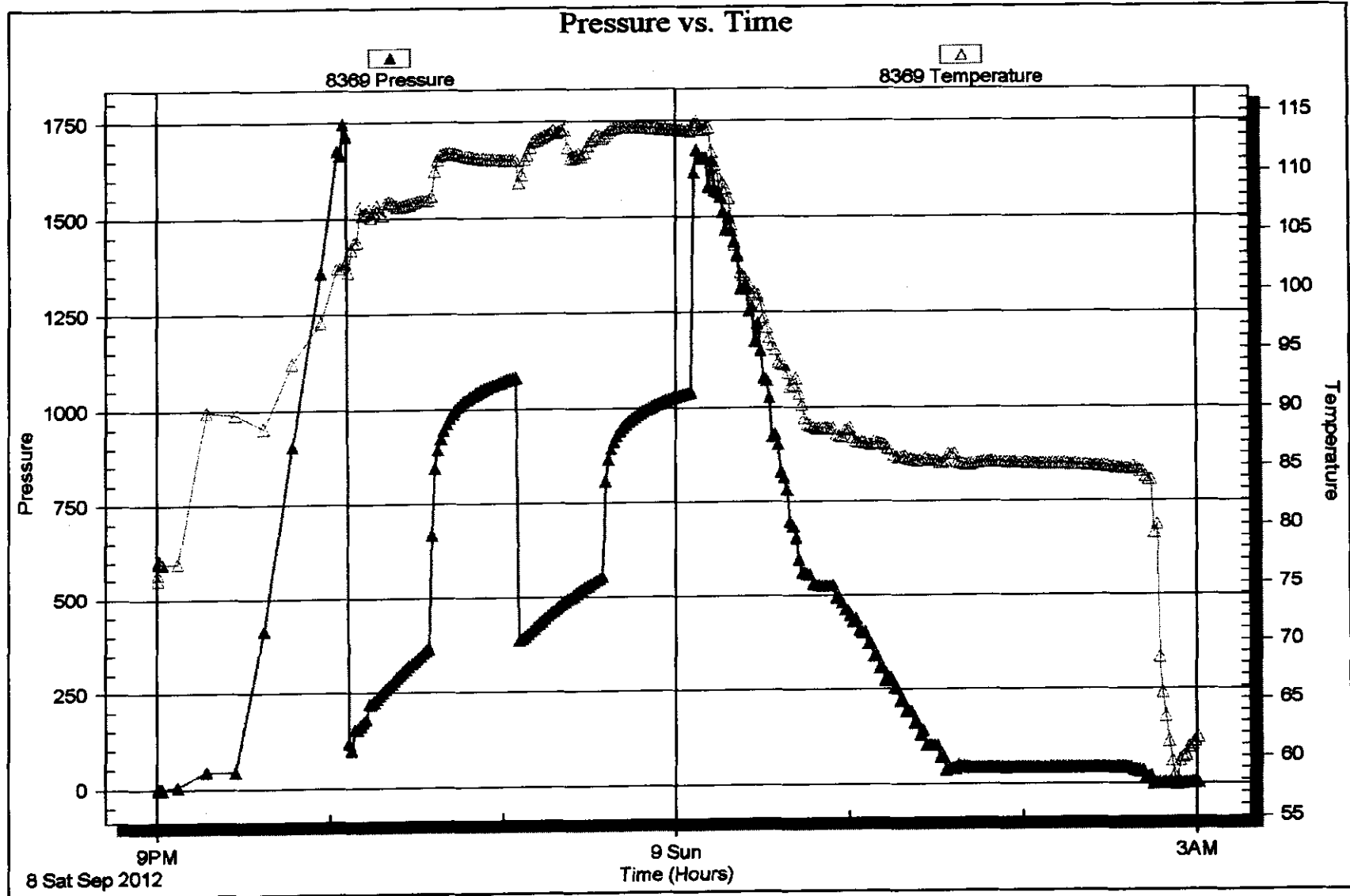


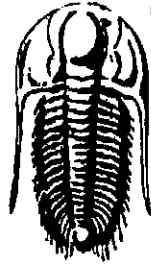
Serial #: 8369

Inside TDI Inc

Dinges Family #1

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601-9696

ATTN: Tom Denning

Dinges Family #1

8-15s-19w Ellis,KS

Start Date: 2012.09.09 @ 17:20:00

End Date: 2012.09.09 @ 22:08:30

Job Ticket #: 49470 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.13 @ 14:27:54

TDI Inc
8-15s-19w Ellis,KS
Dinges Family #1
DST # 4
CG Sand
2012.09.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

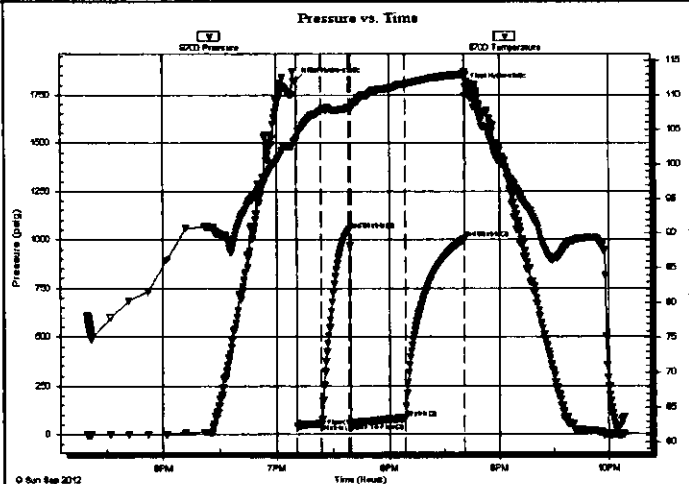
8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 49470 **DST#: 4**
Test Start: 2012.09.09 @ 17:20:00

GENERAL INFORMATION:

Formation: **CG Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:10:30
 Time Test Ended: 22:08:30
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 42
 Interval: **3658.00 ft (KB) To 3704.00 ft (KB) (TVD)**
 Reference Elevations: 2037.00 ft (KB)
 Total Depth: 3704.00 ft (KB) (TVD) 2027.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8700 Outside
 Press@RunDepth: 83.03 psig @ 3695.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.09 End Date: 2012.09.09 Last Calib.: 2012.09.09
 Start Time: 17:20:05 End Time: 22:08:29 Time On Btm: 2012.09.09 @ 19:10:00
 Time Off Btm: 2012.09.09 @ 20:41:30

TEST COMMENT: 15 - IF- 5" blow
 15 - IS- No blow back.
 30 - FF- 3" Blow
 30 - FS- Noblow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.48	103.40	Initial Hydro-static
1	42.24	103.89	Open To Flow (1)
14	56.17	107.69	Shut-In(1)
28	1052.45	108.09	End Shut-In(1)
29	60.99	107.82	Open To Flow (2)
59	83.03	111.56	Shut-In(2)
91	1004.70	112.99	End Shut-In(2)
92	1793.71	112.93	Final Hydro-static

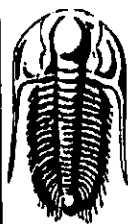
Recovery

Length (ft)	Description	Volume (bbl)
92.00	Mud - Oil Scum, 100%M	1.29

* Recovery from multiple tests

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 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 49470 **DST#: 4**
Test Start: 2012.09.09 @ 17:20:00

Tool Information

Drill Pipe:	Length: 3644.00 ft	Diameter: 3.80 inches	Volume: 51.12 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 51.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3658.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	75.00 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			3630.00	
Shut In Tool	5.00			3635.00	
Hydraulic tool	5.00			3640.00	
Jars	5.00			3645.00	
Safety Joint	3.00			3648.00	
Packer	5.00			3653.00	29.00 Bottom Of Top Packer
Packer	5.00			3658.00	
Stubb	1.00			3659.00	
Perforations	3.00			3662.00	
Change Over Sub	1.00			3663.00	
Drill Pipe	31.00			3694.00	
Change Over Sub	1.00			3695.00	
Recorder	0.00	8369	Inside	3695.00	
Recorder	0.00	8700	Outside	3695.00	
Perforations	6.00			3701.00	
Bullnose	3.00			3704.00	46.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis,KS
Dinges Family #1
Job Ticket: 49470 **DST#: 4**
Test Start: 2012.09.09 @ 17:20:00

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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

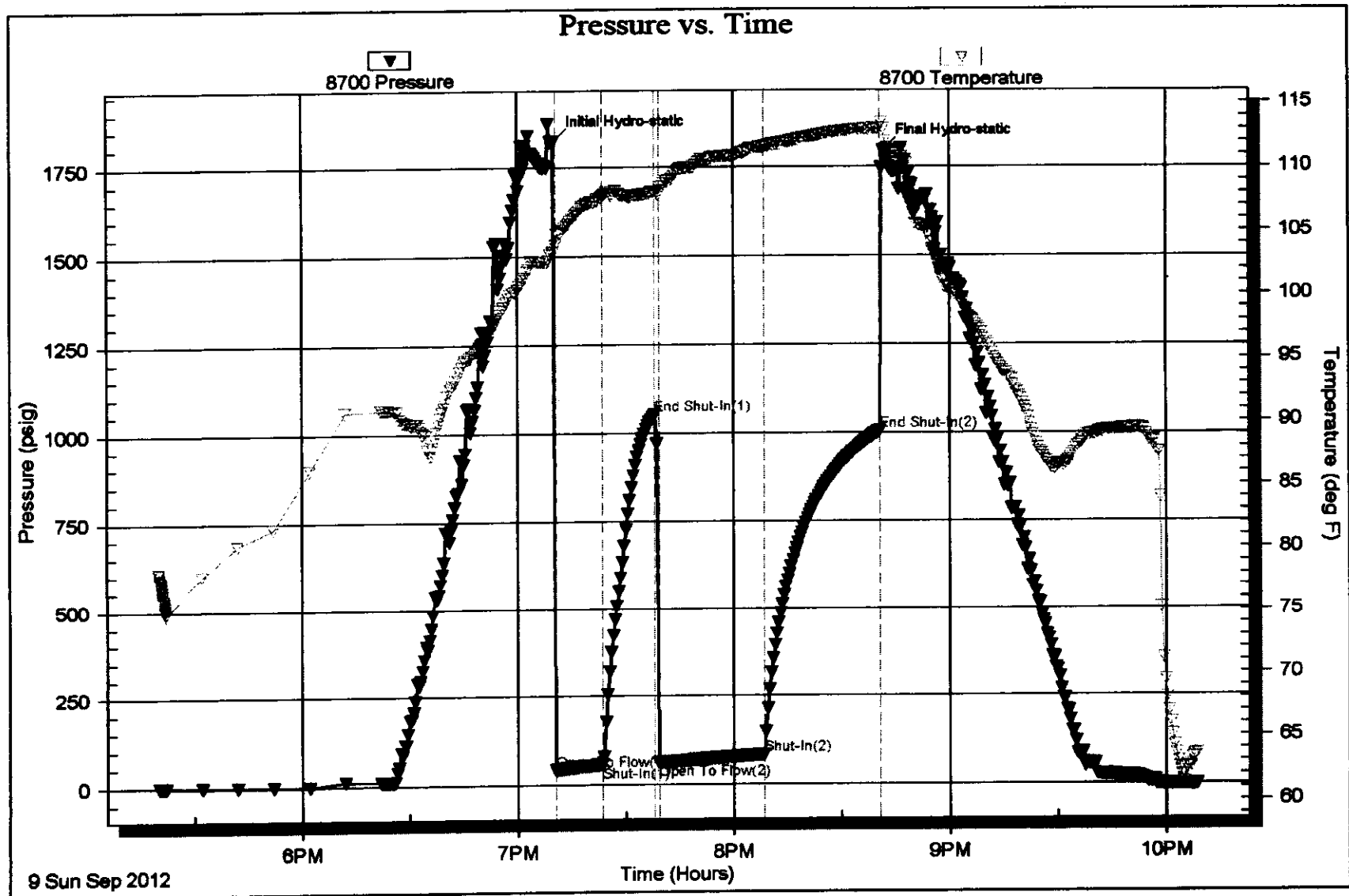
Length ft	Description	Volume bbl
92.00	Mud - Oil Scum, 100%M	1.291

Total Length: 92.00 ft Total Volume: 1.291 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

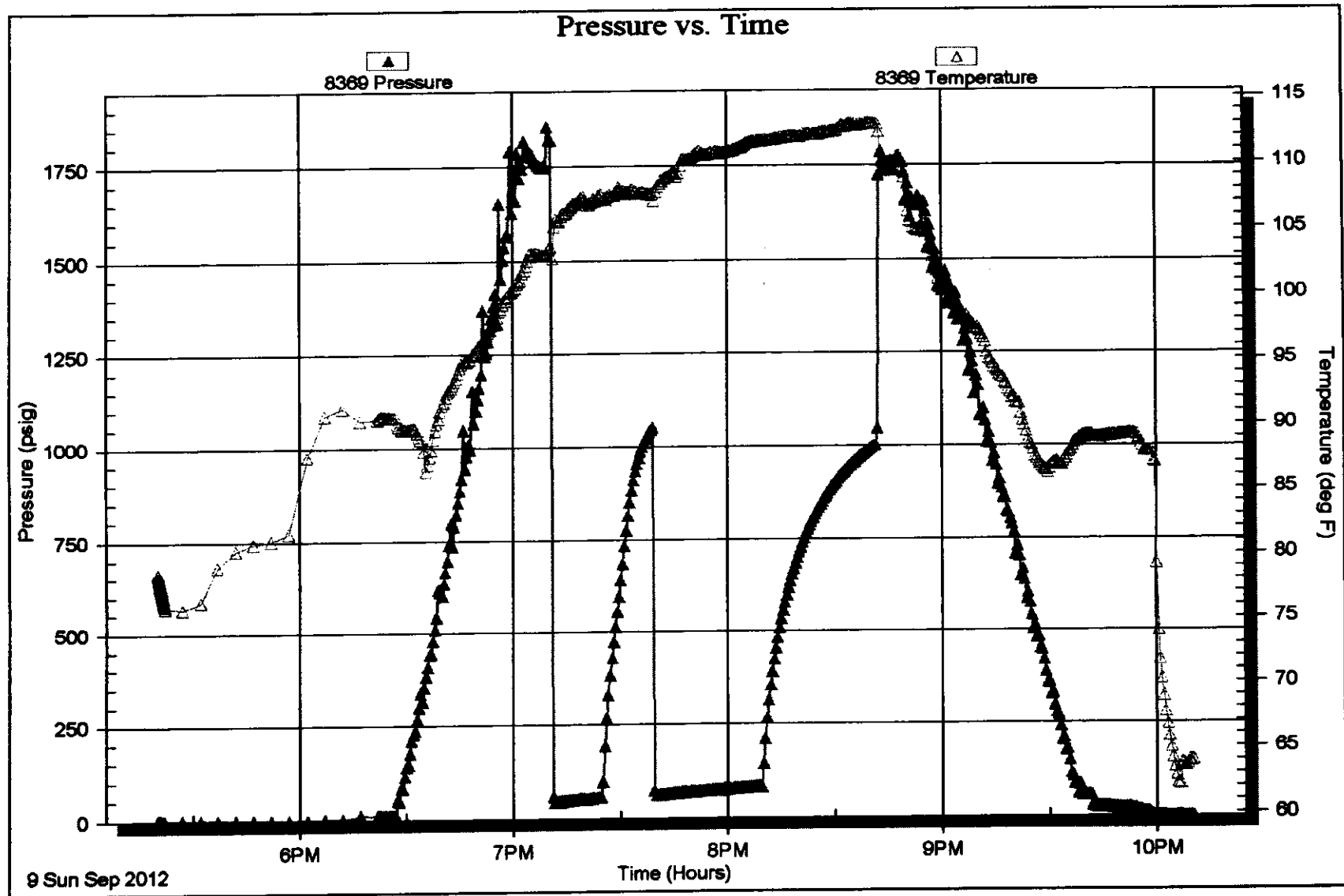


Serial #: 8369

Inside TDI Inc

Dinges Family #1

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

No. 48679

Well Name & No. Dinges Family #1 Test No. 1 Date 9-7-12
 Company TDI Inc Elevation 2037 KB 2027 GL
 Address 1310 Bison Rd Hays, Ks 67601-9696
 Co. Rep / Geo. Herb Dinges Rig Southwind rig 1
 Location: Sec. B Twp. 15^s Rge. 19^w Co. ELLIS State Ks

Interval Tested 3355-3377 Zone Tested LKC "C"
 Anchor Length 22 Drill Pipe Run 3359 Mud Wt. 8.8
 Top Packer Depth 3350 Drill Collars Run — Vis 47
 Bottom Packer Depth 3355 Wt. Pipe Run — WL 7.6
 Total Depth 3377 Chlorides 4200 ppm System LCM 1#

Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 4/4" BLOW
ISIP - NO BLOW
FFP - STRONG BLOW IN 2 MIN
FSIP - STRONG BLOW BACK IN 7 MIN

Rec	Feet of	%gas	%oil	%water	%mud
870	GIP				
5	OT GCM	10	10		80
62	GMO	50	30		20
62	GMO	40	50		10
124	CO				
5	258 WATER BHT				

A) Initial Hydrostatic 1589
 B) First Initial Flow —
 C) First Final Flow —
 D) Initial Shut-In 1007
 E) Second Initial Flow 72
 F) Second Final Flow 116
 G) Final Shut-In 949
 H) Final Hydrostatic 1571

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Gravity 37 API RW — @ — F Chlorides — ppm
 Test 1150
 Jars
 Safety Joint
 Circ Sub
 Hourly Standby
 Mileage 36 RT 55.80
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1205.80

T-On Location 1255
 T-Started 1450
 T-Open 1650
 T-Pulled 1935
 T-Out 2116
 Comments
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1205.80
 MP/DST Disc't

Approved By

Our Representative

RAY SCHWAGER THANK YOU

TriLOBite Testing Inc. shall not be liable for damaged or 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49468

Well Name & No. Dingos Family #1 Test No. 2 Date 9-8-12
 Company TDI Inc. Elevation 2037 KB 2027 GL
 Address 1310 Bison Rd, Hays KS, 67601
 Co. Rep / Geo. Herb Rig Southwind #1
 Location: Sec. 8 Twp. 15s Rge. 19W Co. ELLIS State KS

Interval Tested 3377-3414 Zone Tested D-F-Top of G
 Anchor Length 37' Drill Pipe Run 3361 Mud Wt. 8.8
 Top Packer Depth 3372 Drill Collars Run - Vis 47
 Bottom Packer Depth 3377 Wt. Pipe Run - WL 7.6
 Total Depth 3414 Chlorides 4200 ppm System LCM -

Blow Description IF- 1/4" blow & dying
ISI- No blow back
FF- No blow, waited 10 min, flushed tool, surged & d.c. waited 10 min. pulled.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud-Gil Scum</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 1010 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1628 Test 1150 T-On Location 4:05 am
 (B) First Initial Flow 10 Jars T-Started 4:30 am
 (C) First Final Flow 14 Safety Joint T-Open 6:09 am
 (D) Initial Shut-In 35 Circ Sub T-Pulled 7:44 am
 (E) Second Initial Flow 13 Hourly Standby T-Out 9:20 am
 (F) Second Final Flow - Mileage 55.80
 (G) Final Shut-In 14 Sampler
 (H) Final Hydrostatic 1600 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Initial Open 30
 Initial Shut-In 45
 Final Flow 20-pulled
 Final Shut-In -

Sub Total 0
 Total 1205.80
 MP/DST Disc't _____

Approved By _____ Our Representative Cody Bell

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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49469

Well Name & No. Dingo Family #1 Test No. 3 Date 9-8-12
 Company TDI, INC. Elevation 2037 KB 2027 GL
 Address 1310 Bison RD, Hays KS, 67601
 Co. Rep / Geo. Herb Rig Southwind #1
 Location: Sec. 8 Twp. 5S Rge. 19W Co. ELLIS State KS

Interval Tested 3428-3540 Zone Tested H, I, J
 Anchor Length 112' Drill Pipe Run 3425' Mud Wt. 9.2
 Top Packer Depth 3423 Drill Collars Run — Vis 59
 Bottom Packer Depth 3438 Wt. Pipe Run — WL 7.2
 Total Depth 3540 Chlorides 4200 ppm System LCM —
 Blow Description IF - B.O.B. in 2 Min.
ISI - No blow back
FF - B.O.B. in 3 Min.
FSI - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>Mud</u>			<u>100</u>	
<u>682</u>	<u>MW</u>		<u>95</u>	<u>5</u>	
<u>124</u>	<u>Mud</u>			<u>100</u>	

Rec Total 992' BHT 1090 Gravity — API RW 1.15 @ 60 °F Chlorides 6000 ppm

(A) Initial Hydrostatic 1716 Test 1150 T-On Location 7:30pm
 (B) First Initial Flow 105 Jars T-Started 9:00pm
 (C) First Final Flow 385 Safety Joint T-Open 10:07pm
 (D) Initial Shut-In 1081 Circ Sub T-Pulled 12:07am
 (E) Second Initial Flow 385 Hourly Standby T-Out 3:00am
 (F) Second Final Flow 567 Mileage 55.80 Comments _____
 (G) Final Shut-In 1039 Sampler _____
 (H) Final Hydrostatic 1685 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 30 Sub Total 0
 Sub Total 1205.80 Total 1205.80
 MP/DST Disc't _____

Approved By _____ Our Representative Cody Bloodorn
 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49470

Well Name & No. Dinges Family #1 Test No. 4 Date 9-9-12
 Company TDI INC Elevation 2037 KB 2027 GL
 Address 1310 Bison RD, Hays KS, 67601
 Co. Rep / Geo. Herb Rig Southwind #1
 Location: Sec. 8 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3658-3704 Zone Tested C.G. Sand
 Anchor Length 46' Drill Pipe Run 3644 Mud Wt. 9.1
 Top Packer Depth 3653 Drill Collars Run — Vis 59
 Bottom Packer Depth 3658 Wt. Pipe Run — WL 7.8
 Total Depth 3704 Chlorides 4200 ppm System LCM —

Blow Description EF-5" blow
ISI- No blow back.
FF-3" blow
FSI- No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>107</u>	<u>Feet of Mud-oil Scum</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 107 BHT 1120 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>1822</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>2:45 pm</u>
(B) First Initial Flow <u>42</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>5:20 pm</u>
(C) First Final Flow <u>56</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>7:12 pm</u>
(D) Initial Shut-In <u>1052</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>8:42 pm</u>
(E) Second Initial Flow <u>60</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:11 pm</u>
(F) Second Final Flow <u>83</u>	<input checked="" type="checkbox"/> Mileage 55.80	Comments _____
(G) Final Shut-In <u>1004</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1793</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1530.80</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1530.80</u>	

Approved By _____

Our Representative Cody Blair

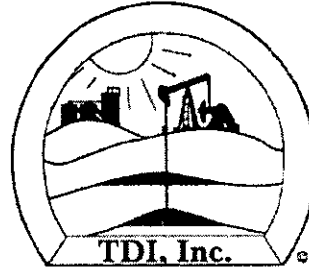
TriLOBITE Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost 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

Contact Geologist: TOM DENNING
Contact Phone Nbr: 785-259-3141
Well Name: DINGES FAMILY # 1
Location: N2 NE SE NW Sec.8-15s-19w
Pool: WILDCAT
State: KANSAS

API: 15-051-26,346-00-00
Field: UNNAMED
Country: USA



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

Scale 1:240 Imperial

Well Name: DINGES FAMILY # 1
Surface Location: N2 NE SE NW Sec.8-15s-19w
Bottom Location:
API: 15-051-26,346-00-00
License Number: 4787
Spud Date: 8/31/2012 Time: 2:15 PM
Region: ELLIS COUNTY
Drilling Completed: 9/9/2012 Time: 12:41 PM
Surface Coordinates: 1425' FNL & 2310' FWL
Bottom Hole Coordinates:
Ground Elevation: 0.00ft
K.B. Elevation: 2037.00ft
Logged Interval: 2200.00ft To: 3704.00ft
Total Depth: 3704.00ft
Formation: LANSING-KANSAS CITY
Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: Latitude:
N/S Co-ord: 1425' FNL
E/W Co-ord: 2310' 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: MOD ROTARY
Spud Date: 8/31/2012
TD Date: 9/9/2012
Rig Release: 9/10/2012

Time: 2:15 PM
Time: 12:41 PM
Time: 6:00 PM

ELEVATIONS

K.B. Elevation: 2037.00ft
K.B. to Ground: 2037.00ft

Ground Elevation: 0.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE STRUCTURE AND RESULTS OF DST # 1.

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

WELL TESTING DONE BY TRILOBITE TESTING, INC. 4 DSTS

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

DINGES FAMILY # 1

1425' FNL & 2310' FWL, NW/4

Sec.8-15s-19w

2027' GL 2037' KB

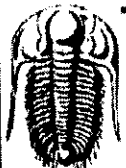
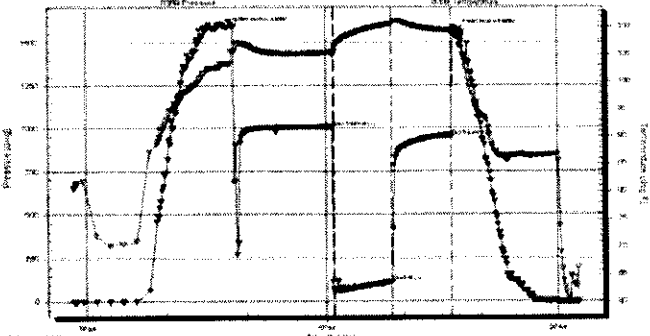
<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1276+761	1275+ 762
B-Anhydrite	1313+ 724	1312+ 725
Topeka	3022- 985	3024- 987
Heebner Shale	3295-1258	3295-1258
Toronto	3313-1276	3315-1278
LKC	3340-1303	3340-1303
BKC	3600-1563	3588-1551
Conglomerate Sand	3672-1635	3665-1628
Arbuckle	NONE	NONE
Reagan Sand	NOT CALLED	NOT CALLED
RTD	3704-1667	
LTD		3703-1666

SUMMARY OF DAILY ACTIVITY


8-31-12 RU, Spud, set 8 5/8" surface casing to 213' w/ 150 sxs Common, 2%Gel, 3%CC
9-01-12 215', shut down for holiday
9-02-12 215', shut down for holiday

- 9-03-12 215', shut down for holiday
- 9-04-12 215', drilling plug
- 9-05-12 1500', drilling
- 9-06-12 2580', drilling, displace 2898'-2928'
- 9-07-12 3375', DST # 1 3355'-3377' "C" zone
- 9-08-12 3424', DST # 2 3377'-3414' "D-G", DST #3 3428'-3540' "H,I,J"
- 9-09-12 3560', drilling, DST #4 3658'-3704' Congl Sand, Log behind test
- 9-10-12 3704, finish logging, run production casing, rig down

DST # 1 TEST SUMMARY

 <p style="font-size: 24pt; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT																														
TDI Inc 1310 Bison Rd Hays Ks 67601-9696 ATTN: Tom Denning	8-15S-19W Ellis Dinges Family #1 Job Ticket: 48679 DST#: 1 Test Start: 2012.09.07 @ 14:50:24																														
GENERAL INFORMATION:																															
Formation: LKC "C" Deviated: No Whipstock. ft (KB) Time Tool Opened: 18:06:19 Time Test Ended: 21:16:18		Test Type: Conventional Bottom Hole (Initial) Tester: Ray Schwager Unit No: 42																													
Interval: 3355.00 ft (KB) To 3377.00 ft (KB) (TVD) Total Depth: 3377.00 ft (KB) (TVD) Hole Diameter: 7.85 inches Hole Condition: Fair		Reference Elevations: 2037.00 ft (KB) 2027.00 ft (CF) KB to GR/CF: 10.00 ft																													
Serial #: 8369 Inside																															
Press@RunDepth: 116.52 psig @ 3356.00 ft (KB) Start Date: 2012.09.07 End Date: 2012.09.07 Start Time: 14:50:24 End Time: 21:16:18		Capacity: 8000.00 psig Last Calib: 2012.09.07 Time On Btm: 2012.09.07 @ 16:45:19 Time Off Btm: 2012.09.07 @ 19:41:48																													
TEST COMMENT:																															
30-IFP-wk to a fr bl 1/2" to 4 1/4" bl 45-ISIP no bl 45-FFP-strg bl in 2 min 45-FSP-strg bl bk in 7 min																															
Pressure vs. Time		PRESSURE SUMMARY																													
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Time (Min.)</th> <th style="width: 20%;">Pressure (psig)</th> <th style="width: 15%;">Temp (deg F)</th> <th style="width: 50%;">Annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1589.48</td> <td>103.45</td> <td>Initial Hydro-static</td> </tr> <tr> <td>80</td> <td>1007.58</td> <td>105.48</td> <td>End Shut-in(1)</td> </tr> <tr> <td>81</td> <td>72.71</td> <td>105.81</td> <td>Open To Flow (1)</td> </tr> <tr> <td>126</td> <td>116.52</td> <td>110.74</td> <td>Shut-in(1)</td> </tr> <tr> <td>172</td> <td>949.13</td> <td>109.34</td> <td>End Shut-in(2)</td> </tr> <tr> <td>177</td> <td>1571.73</td> <td>108.34</td> <td>Final Hydro-static</td> </tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1589.48	103.45	Initial Hydro-static	80	1007.58	105.48	End Shut-in(1)	81	72.71	105.81	Open To Flow (1)	126	116.52	110.74	Shut-in(1)	172	949.13	109.34	End Shut-in(2)	177	1571.73	108.34	Final Hydro-static
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Recovery		Gas Rates																													
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124.00	CO	1.74																													
Casing (inches)	Pressure (psig)	Gas Rate (Mc/D)																													

DST # 2 TEST SUMMARY

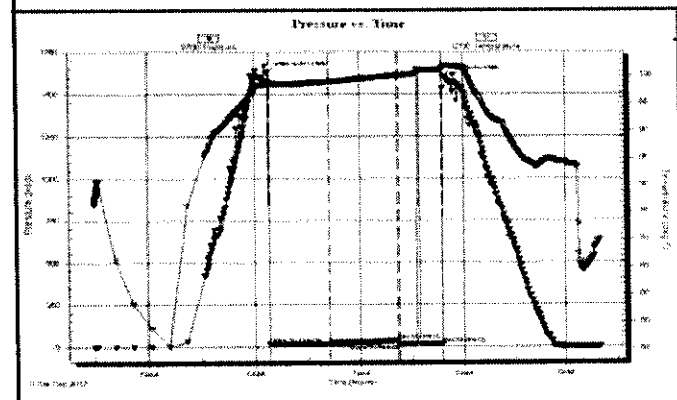
 TRIOBITE TESTING, INC	DRILL STEM TEST REPORT	
	TDI Inc 1310 Bison Rd Hays Ks 67601-9696 ATTN: Tom Denning	8-15S-19W Ellis Dinges Family #1 Job Ticket: 49468 DST#: 2 Test Start: 2012.09.08 @ 04:30:00

GENERAL INFORMATION:

Formation: LKC - "D - F", top o	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Cody Bloedorn
Time Tool Opened: 08:08:00	Unit No: 42
Time Test Ended: 09:19:30	Reference Elevations: 2037.00 ft (KB)
Interval: 3377.00 ft (KB) To 3414.00 ft (KB) (TVD)	2027.00 ft (CF)
Total Depth: 3414.00 ft (KB) (TVD)	KB to GRVCF: 10.00 ft
Hole Diameter: 7.85 inches-Hole Condition: Fair	

Serial #: 8700	Outside				
Press@RunDepth: 14.74 psig @ 3378.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2012.09.08	End Date: 2012.09.08	Last Calib: 2012.09.08			
Start Time: 04:30:05	End Time: 09:19:29	Time On Btm: 2012.09.08 @ 06:07:30			
		Time Off Btm: 2012.09.08 @ 07:48:30			

TEST COMMENT: 30 - IF- 1/4" Blow and Dying
 45 - ISI- No blow back
 20 - FF- Waited 10 Min, no blow, Flushed tool, surged and died, waited 10 Min. Pulled tool




Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.63	98.87	Initial Hydro-static
1	12.55	98.55	Open To Flow (1)
35	14.74	98.88	Shut-In (1)
74	35.15	100.11	End Shut-In (1)
75	13.41	100.13	Open To Flow (2)
100	14.10	101.21	End Shut-In (2)
101	1600.40	101.93	Final Hydro-static

Length (ft)	Description	Volume (BB)
5.00	Mud - Oil Scum, 100%M	0.07

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

DST # 3 TEST SUMMARY

 TRIOBITE TESTING, INC	DRILL STEM TEST REPORT	
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TRILOBITE TESTING, INC.

TDI Inc
1310 Bison Rd
Hays Ks 67601-9696
ATTN: Tom Denning

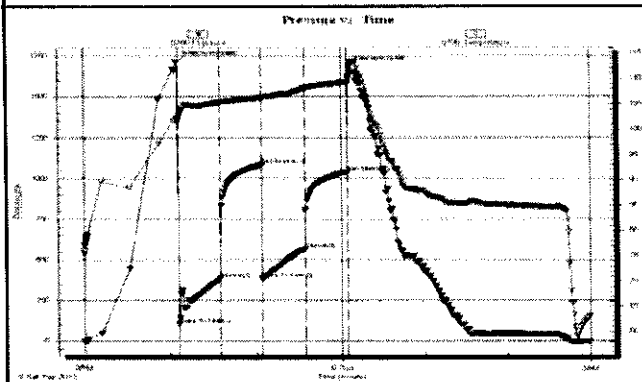
8-15S-19W Ellis
Dinges Family #1
Job Ticket: 49469 **DST#:3**
Test Start: 2012.09.08 @ 21:00:00

GENERAL INFORMATION:

Formation: **H.I.J**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 22:06:00
Time Test Ended: 02:59:30
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Blodorn
Unit No: 42
Interval: **3428.00 ft (KB) To 3540.00 ft (KB) (TVD)**
Total Depth: 3540.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches-Hole Condition: Fair
Reference Elevations: 2037.00 ft (KB)
2027.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8700 Outside
Press@RunDepth: 567.39 psig @ 3527.00 ft (KB)
Start Date: 2012.09.08 End Date: 2012.09.09
Start Time: 21:00:05 End Time: 02:59:29
Capacity: 8000.00 psig
Last Calib: 2012.09.09
Time On Btm: 2012.09.08 @ 22:05:30
Time Off Btm: 2012.09.09 @ 00:06:00

TEST COMMENT: 30 - IF- B.O.B. in 2 Min.
30 - IS- No blow back
30 - FF- B.O.B. in 3 Min.
30 - FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.38	102.19	Initial Hydro-static
1	105.15	101.92	Open To Flow (1)
29	385.20	105.37	Shut-In(1)
58	1081.52	106.35	End Shut-In(1)
59	385.71	106.07	Open To Flow (2)
89	567.39	108.10	Shut-In(2)
120	1039.66	109.31	End Shut-In(2)
121	1685.09	112.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (MB)
186.00	Mud, 100% M	2.61
682.00	MV, 5% M, 95% VV	9.57
124.00	Mud, 100% M	1.74

Gas Rates

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

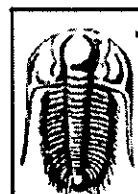
* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 49469

Printed: 2012.09.09 @ 06:56:20

DST # 4 TEST SUMMARY



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc
1310 Bison Rd
Hays Ks 67601-9696
ATTN: Tom Denning

8-15S-19W Ellis
Dinges Family #1
Job Ticket: 49470 **DST#:4**
Test Start: 2012.09.09 @ 17:20:00

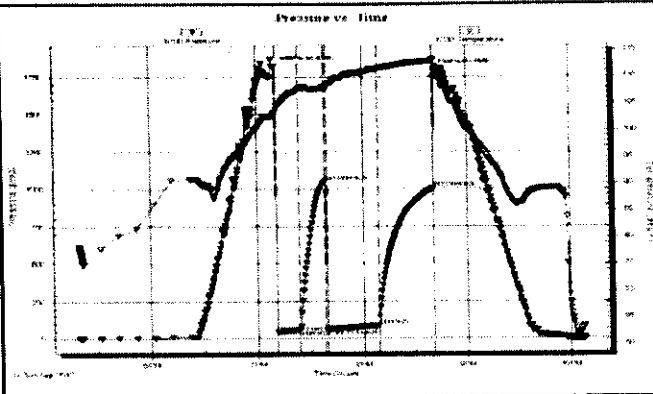
GENERAL INFORMATION:

Formation: **CG Sand**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 19:10:30
Time Test Ended: 22:08:30
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Blodorn
Unit No: 42
Interval: **3658.00 ft (KB) To 3704.00 ft (KB) (TVD)**
Total Depth: 3704.00 ft (KB) (TVD)
Reference Elevations: 2037.00 ft (KB)
2027.00 ft (CF)

Hole Diameter 7.85 inches Hole Condition Fair KB to GR/CF: 10.00 ft

Serial #: 8700 Outside
 Press@RunDepth: 83.03 psig @ 3695.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.09 End Date: 2012.09.09 Last Calib.: 2012.09.09
 Start Time: 17:20:05 End Time: 22:08:29 Time On Btm: 2012.09.09 @ 19:10:00
 Time Off Btm: 2012.09.09 @ 20:41:30

TEST COMMENT: 15 - IF- 5" blow
 15 - IS- No blow back
 30 - FF- 3" Blow
 30 - FS- Noblow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.48	103.40	Initial Hydro-static
1	42.24	103.89	Open To Flow (1)
14	56.17	107.69	Shut-in(1)
28	1052.45	108.09	End Shut-in(1)
29	60.99	107.82	Open To Flow (2)
59	83.03	111.56	Shut-in(2)
91	1004.70	112.99	End Shut-in(2)
92	1793.71	112.93	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
92.00	Mud - Oil Scum, 100%M	1.29

Gas Rates			
Time (Min)	Flow Rate (bbl/hr)	Pressure (psig)	Gas Ratio (bbl/cu ft)

Trilobite Testing, Inc. Ref. No: 49470 Printed: 2012.09.09 @ 23:37:34

ROCK TYPES

Clystgy	Lmst fw>	Carbon Sh	Dol Lime
Chtcongl	shale, gm	shale, red	Lscongl
Lmst fw<7	shale, gry	Ss	CglSandy

ACCESSORIES

MINERAL P Pyrite ··· Varicolored chert ▲ Chert White	FOSSIL ◇ Oolite ⚡ Oomoldic
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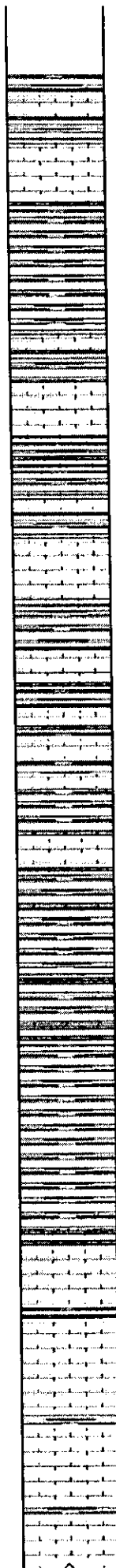
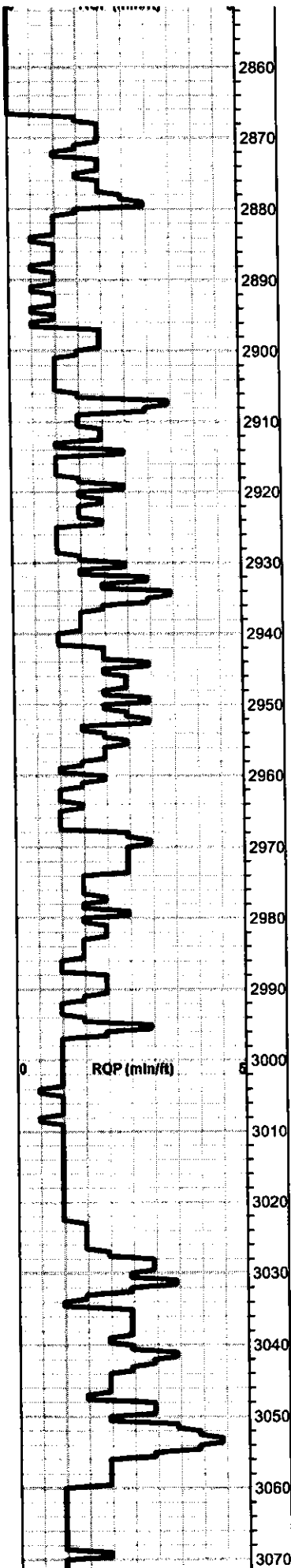
OTHER SYMBOLS

DST

- DST Int
- DST all
- Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsl.ca)

Curve Track #1 ROP (min/ft)	Cored Interval Depth Intervals DST Interval	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5
1:240 Imperial						1:240 Imperial



BEGIN 1' DRILL TIME FROM 2850' TO RTD
 BEGIN 10' WET AND DRY SAMPLES FROM 3000' TO RTD

ANHYDRITE SPL TOP 1276+761 ELog 1275+762
ANHYDRITE SPL BASE 1313+724 ELog 1312+725

8 5/8" SURFACE CASING SET
 TO 213' W/ 150 SACKS
 COMMON, 2%Gel, 3%CC

Shale, med gray forming soft mud clusters
 Lime, med brn, fnxln, slightly fossiliferous with mix of gray,
 fnxln lime

Lime, grayish brn, fnxln
 Shale, lt-med gray, soft blocky

Lime, brn-gray, fnxln, slightly fossiliferous
 Shale, lt gray forming soft mud

Shale, lt-med brn, soft blocky to soft mud clusters

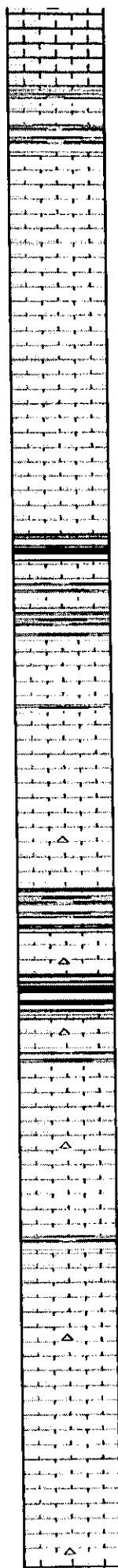
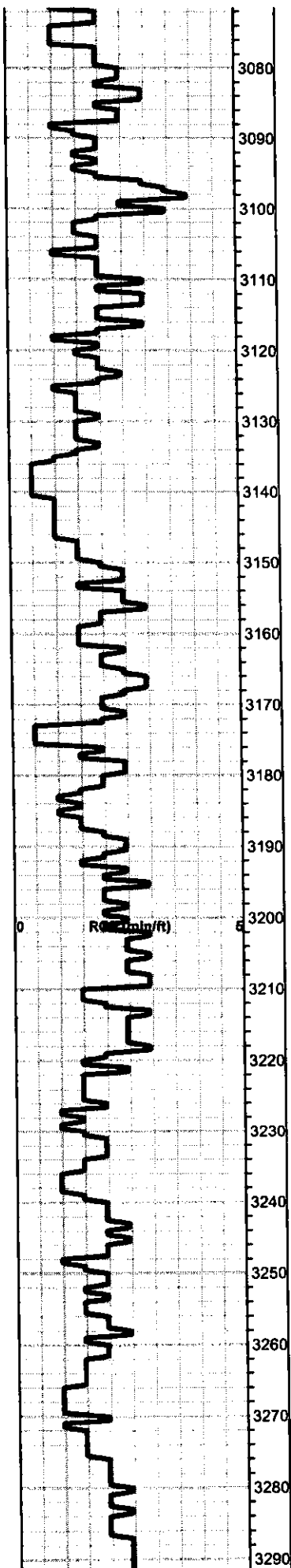
TOPEKA SPL 3022-985 ELog 3024-987

Lime, crm-tan, fnxln, soft on crush, bedded chalk, slightly
 fossiliferous

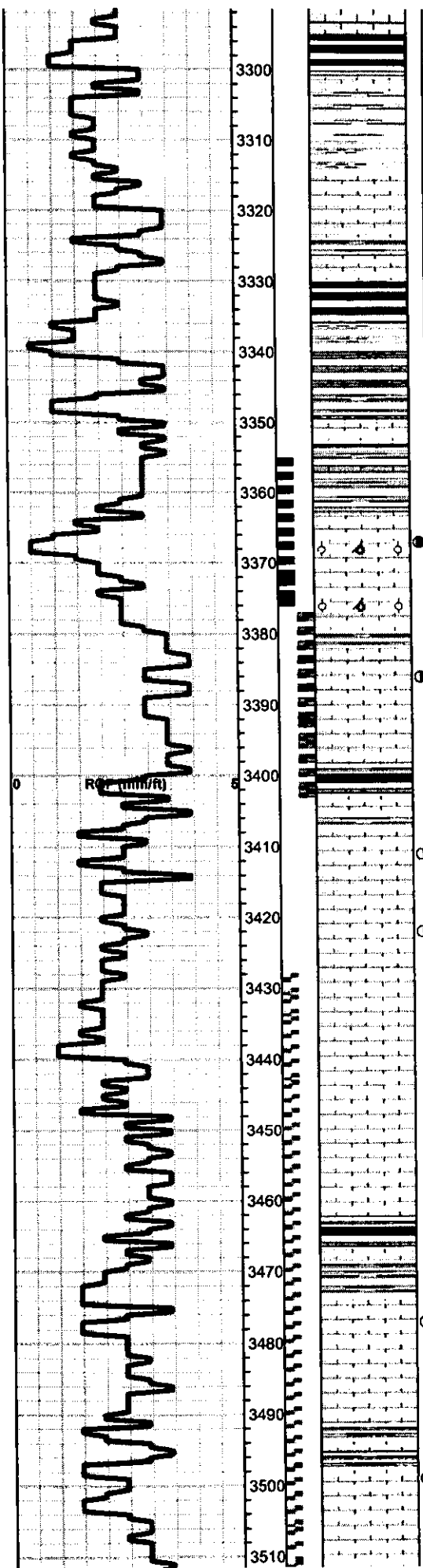
Lime, crm-lt brn-grayish brn, fnxln, chalk in part, slightly
 fossiliferous

Lime, lt-med brn-gray, fnxln

Lime, crm-lt-med brn, granular, slightly fossiliferous, bedded
 chalk in part, NS



- 3080 Lime, offwhite-lt grayish brn, fnxn-granular in part
- 3090 Lime, offwhite-lt-med brn, fnxn, slightly fossiliferous
- 3100 Lime, lt-med brn-grayish brn, fnxn
- 3110 Lime, lt-med brn, fnxn-granular, slight chalk, NS
- 3120 Lime, lt-med brn, fnxn-granular in part
- 3130 Lime, med brn-med gray, fnxn, fossiliferous in part
- 3140 Lime, lt-med brn, granular, bedded chalk in part, slightly fossiliferous
- 3150 Shale, gray-black carbonaceous
- 3160 Lime, lt-med brn, fnxn
Shale, med gray, calcareous
- 3170 Lime, tan-lt brn, fn-vfxn, very clean in appearance
- 3180 Lime, lt brn-lt grayish brn, fnxn-granular, slightly fossiliferous, NS
- 3190 Lime, lt brn, fnxn-granular, bedded chalk, lt gray fossiliferous chert
- 3200
- 3210 Lime, lt brn, shale inclusions in part, fnxn
- 3220 Shale, gray-black carbonaceous
Lime, crm-lt brn, fn-vfxn micritic in part
Shale, lt gray, calcareous
- 3230 Lime, lt-med brn-grayish brn, fnxn, lt bedded chalk in part
- 3240 Lime, lt-med brn-grayish brn, fnxn-granular, NS
- 3250 Lime, lt-med brn, most fnxn w/ granular in part, lt bedded chalk in part, NS
- 3260 Lime, lt brn, fnxn-granular, bedded chalk in part NS
- 3270 Lime, lt-med brn, fnxn-granular, bedded chalk
- 3280 Lime, lt brn, fnxn-granular, bedded chalk, slight fossiliferous
- 3290 Lime, lt brn, fnxn-granular, bedded chalk, slightly fossiliferous



HEEBNER SHALE SPL 3295-1258 ELOG 3295-1258

Shale, black carbonaceous, fissile, blocky
Lime, med brn, fnxn

Shale, lime green, soft to lt gray, soft mud

TORONTO SPL 3313-1276 ELog 3315-1278

Lime, white-crm, fn-vfxln, bed chalk in part, NS

Lime, white, fnxn, micrite in part
Shale, red wash grading into lt gray soft mud

LKC SPL 3340-1303 ELog 3340-1303

Lime, grayish brn, fnxn

Lime, tan-lt brn, fnxn with bedded chalk in part

Lime, lt brn-lt gray, fnxn, lt bedded chalk in part

Lime, lt brn, oolitic-oolmoldic, scattered to saturated stain, lt odor, show of lt gassy oil on break

Lime, lt brn, fnxn

Lime, crm-tan, fnxn, scattered oolitic-oolmoldic with interoolitic and vuggy porosity, V Lt Odor, Lt stain

Lime, tan-lt brn, fnxn
Shale, med gray-black carbonaceous

Lime, tan-lt brn, oolitic in part with lt staining, V Lt Odor, NFO

Lime, lt-med brn, mostly fnxn, scattered vuggy porosity with lt gassy oil on break

Lime, crm-tan, fnxn-granular, bed chalk with sticky clusters in part, white chalk wash

Lime, crm-tan, fnxn with bedded chalk

Lime, tan, fn-vfxln, bedded chalk

Lime, crm-tan, fn-vfxln, chalky

Shale, gray-black carbonaceous
Lime, lt-dark brn, fn-vfxln, hard on crush

Shale, dove gray, soft mud

Lime, tan-lt brn, mostly fnxn with 2 pieces with poorly developed vuggy porosity, scattered stain, NFO, No Odor

Lime, crm-tan, fnxn, bedded chalk

Lime, lt-med brn, fnxn, few chips of oolitic with fossil fragments, scattered to saturated staining, gilsonitic

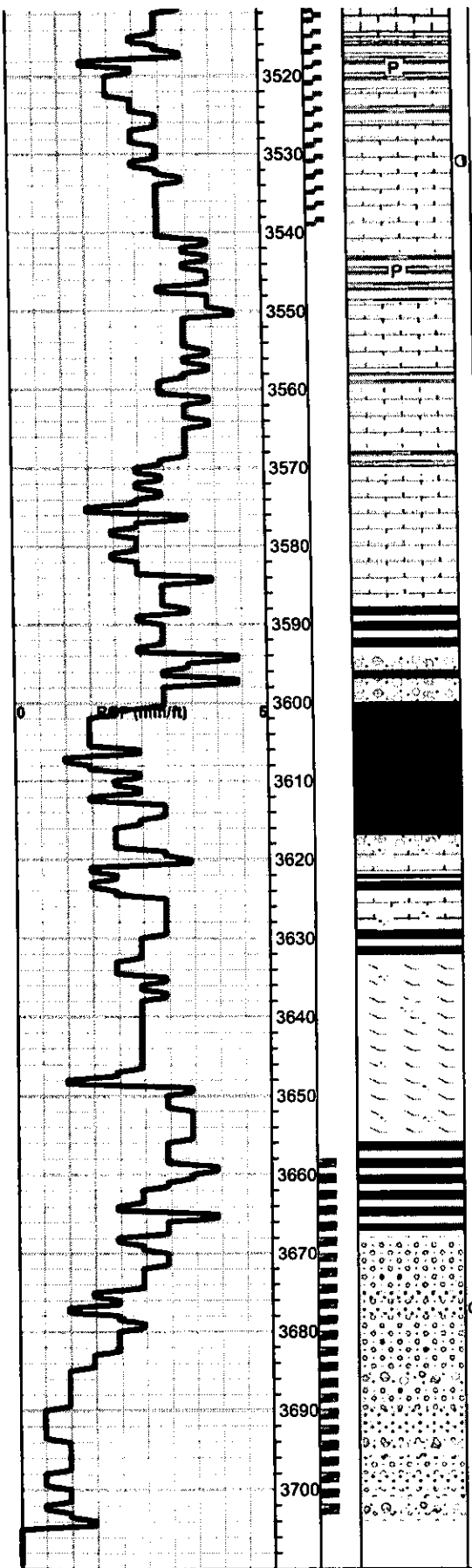
Lime, crm-offwhite, fn-vfxln, bedded chalk

DST # 1 3355' TO 3377' SEE HEADER FOR TEST SUMMARY

Slope @ 3375' 3/4 degree

DST # 2 3377' TO 3414' SEE HEADER FOR TEST SUMMARY

DST # 3 3428' TO 3540' SEE HEADER FOR TEST SUMMARY



Shale, gray, soft, pyrite clusters

Lime, offwhite-tan-lt brn, fn-vfxln, light bedded chalk, trace of staining in scattered vuggy porosity

Lime, lt-med brn, fnxln

Shale, gray-grayish brn, soft blocky, pyrite clusters

Lime, tan-med brn, fnxln

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

Lime, offwhite-lt brn, fn-vfxln, chalk in part

Lime, lt-med brn, fnxln, light bedded chalk in part

BKC SPL 3600-1563 ELog 3588-1551

Shale, red wash with mix of clastic lime rubble

Shale, lt red-gray with lt red wash

Shale, red wash, soft

Lime, crm-tan, fnxln with clastic lime mix in part

MARMATON MARKER ELog 3633-1596

Lime, crm-tan-lt brn, dolomitic, hard on crush, cherty

Lime, crm-tan, fn-vfxln, hard with orange chert in part

Shale, red wash, soft sticky in part

CONGLOMERATE SAND ELog 3665-1628

Sandy well cemented mix, poorly sorted with mix of chert

Scattered clusters of well sorted sand with show of lt oil on break mixed with mostly cemented, poorly developed sand

Mix of soft white clay, vari colored cherts and poorly developed sandstone

RTD 3704-1667 LTD 3703-1666

DST # 4 3658' TO 3704' SEE
HEADER FOR TEST SUMMARY

RAN 14# 5 1/2" PRODUCTION
CASING TO 3702' WITH 150 SXS
EA2. DV IN ANHYDRITE
CEMENTED WITH 155 SXS SMD

JOB LOG

SWIFT Services, Inc.

DATE 9-10-12 PAGE NO. 1

CUSTOMER TDI WELL NO. #1 LEASE Dinges Family JOB TYPE 2-stage TICKET NO. 21886

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							on loc set Int w/ FE
								RTD 3704'
								5 1/2" x 14" x 3703' x 44'
								Cent, 1, 3, 5, 92, 8, 10, 11, 56
								Back 2, 93, 57, 76
								DV 57 @ 1266'
	1320							start FE
	1510							Break Circ
								Pressure
	1600	5	0				200	Start Preflushes 500 gal Mud/Flush 20 bbl KCL Flush
	1605	5	32/0				200	Start 150 sks EA-2
	1612		36					End Cement
								wash P+L
								Drop & D Plug
	1618	6	0				200	Start Displacement wtr
	1628	6	60				200	Mud
	1631	5	78				250	KCL Flush
	1633		89				600/1200	Land Plug
								Release Pressure / Float Hold
	1638							Drop Opening Plug
	1645	25	7					Plug RTH+MH 30 sks SMD / 15 sks SMD
	1655						1100	Open DV
	1656	6	0				150	Start 150 sks SMD
	1715		86					End Cement
								Drop Closing Plug
	1720	5	0				150	Start Displacement
	1725	4	24				300	Circ Cement
	1727		31				400/1200	Land Plug
								Close DV
								Release Pressure / DV Closed
								Circ 25 sks to Pit

Thank you
 Nick, David E, & Ben

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

January 16, 2013

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

Re: ACO1
API 15-051-26346-00-00
Dinges Family 1
NW/4 Sec.08-15S-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

Conservation Division
Finney State Office Building
130 S. Market, Rm. 207B
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

January 17, 2013

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

Re: ACO-1
API 15-051-26346-00-00
Dinges Family 1
NW/4 Sec.08-15S-19W
Ellis County, Kansas

Dear Tom Denning:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 8/31/2012 and the ACO-1 was received on January 16, 2013 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department