

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

RECEIVED

AUG 20 2010

8/17/12

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

KCC WICHITA

ORIGINAL

OPERATOR: License # 30606
Name: Murfin Drilling Company, Inc.
Address 1: 250 N. Water, Suite 300
Address 2: _____
City: Wichita State: KS Zip: 67202 + _____
Contact Person: Leon Rodak
Phone: (316) 267-3241
CONTRACTOR: License # 30606 **KCC**
Name: Murfin Drilling Company, Inc. **AUG 17 2010**
Wellsite Geologist: Kent Crisler **CONFIDENTIAL**
Purchaser: None

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 #: _____

05/14/10 05/21/10 05/21/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 195-22661-0000
Spot Description: _____
S2 SE SE NE Sec. 4 Twp. 11 S. R. 21 East West
2,750 Feet from North / South Line of Section
330 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Trego
Lease Name: Zeigda Unit Well #: 1-4
Field Name: Zelgler
Producing Formation: None
Elevation: Ground: 2144 Kelly Bushing: 2155
Total Depth: 3850 Plug Back Total Depth: None
Amount of Surface Pipe Set and Cemented at: 225 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 #: _____

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.

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.

Signature: _____
Title: VP Production Date: 08/17/10

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 8/17/10 - 8/17/12
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: DA Dg Date: 8/23/10

Operator Name: Murfin Drilling Company, Inc. Lease Name: Zeigda Unit Well #: 1-4
 Sec. 4 Twp. 11 S. R. 21 East West County: Trego

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 Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No

Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

See Attached List

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List All E. Logs Run:
Dual Induction, Compensated Porosity, Microresistivity

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		8 5/8	23#	225	Common	160	3% cc, 2% gel

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				

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
--	--	--

MDCI Zeigda Unit #1-4 2750 FSL 330 FEL Sec. 4-T11S-R21W 2155' KB							MDCI Hadlew Unit #1-3 2600' FSL 660' FWL Sec. 3-T11S-R21W 2111' KB	
Formation	Sample tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	1609	+546	+3	1609	+546	+3	1568	+543
B/Anhydrite	1655	+500	+5	1659	+496	+1	1616	+495
Topeka	3189	-1034	Flat	3190	-1035	-1	3145	-1034
Heebner	3395	-1240	Flat	3396	-1241	-1	3351	-1240
Toronto	3417	-1262	+1	3417	-1262	+1	3374	-1263
Lansing	3435	-1280	+1	3436	-1281	Flat	3392	-1281
BKC	3667	-1512	+1	3675	-1520	-7	3624	-1513
Arbuckle	3757	-1602	-6	3757	-1602	-6	3707	-1596
RTD	3850						3850	
LTD				3852			3850	

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KCC WICHITA



August 17, 2010

Kansas Corporation Commission
Conservation Division
130 S Market, Room 2078
Wichita, Ks 67202

Re: **Confidential Filing:** ACO-1
API #15-195-22661-0000
Zeigda Unit 1-4

KCC
AUG 17 2010
CONFIDENTIAL

To Whom It May Concern:

We are requesting the above referenced well to be held confidential for the maximum of two years.
Let me know if you need any further information on this.

Sincerely,

A handwritten signature in black ink, appearing to read "Elisabeth Heibel", is written over a set of horizontal lines.

Elisabeth Heibel

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PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
 Fax: (785) 483-5566

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 AUG 20 2010
 KCC WICHITA

act. Liz.
INVOICE

Invoice Number: 122702

Invoice Date: May 14, 2010

Page: 1

PROD COPY

Bill To:
 Murfin Drig. Co., Inc.
 250 N. Water
 STE #300
 Wichita, KS 67202

operator pay mdc
Zeigda Unit 1-4 / BM
KCC
AUG 17 2010
CONFIDENTIAL

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Zeigda #1-4	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	May 14, 2010	6/13/10

Quantity	Item	Description	Unit Price	Amount
160.00	MAT	Class A Common	13.50	2,160.00
3.00	MAT	Gel	20.25	60.75
5.00	MAT	Chloride	51.50	257.50
80.00	SER	Handling	2.25	180.00
25.00	SER	Mileage 80 sx @ .10 per sk per mi	8.00	200.00
1.00	SER	Surface	991.00	991.00
25.00	SER	Pump Truck Mileage	7.00	175.00

Account	Unit Hig	w L	No.	Amount	Description
<i>03600</i>	<i>020</i>	<i>W</i>	<i>3661</i>	<i>1467.99</i> <i>(1408.49)</i>	<i>Cement S. (Sg.)</i>

ALL PRICES ARE NET, PAYABLE
 30 DAYS FOLLOWING DATE OF
 INVOICE. 1 1/2% CHARGED
 THEREAFTER. IF ACCOUNT IS
 CURRENT, TAKE DISCOUNT OF

\$ 1408.49

ONLY IF PAID ON OR BEFORE
Jun 8, 2010

Subtotal	4,024.25
Sales Tax	143.74
Total Invoice Amount	4,167.99
Payment/Credit Applied	
TOTAL	4,167.99

OKM
275959

ALLIED CEMENTING CO., LLC. 041588

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

SERVICE POINT:
Russell KS

DATE <u>5-14-10</u>	SEC. <u>4</u>	TWP. <u>11</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>8:15pm</u>	JOB FINISH <u>8:45pm</u>
LEASE <u>Zeigda</u>	WELL # <u>1-4</u>	LOCATION <u>Riga Rd & I-70 11 North</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)		<u>West into</u>					

CONTRACTOR Murfin Drilling Rig #20 OWNER _____

TYPE OF JOB Surface

HOLE SIZE 8 1/4 T.D. 225' CEMENT

CASING SIZE 8 5/8 23" DEPTH 225' AMOUNT ORDERED 160 com 3% cc 2% Gel

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 13.37 Bbl

EQUIPMENT

PUMP TRUCK CEMENTER John Roberts

417 HELPER Matt

BULK TRUCK _____

394 DRIVER Heath

BULK TRUCK _____

_____ DRIVER _____

COMMON 160 @ 13.50 2160.00

POZMIX _____ @ _____

GEL 3 @ 20.25 60.75

CHLORIDE 5 @ 51.50 257.50

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 80 @ 2.25 180.00

MILEAGE 106.4 @ _____ 200.00

TOTAL 2858.25

REMARKS:

Est. Circulation.

Mix 160 sk cement

Displace w/ 13.37 Bbl H₂O

Cement Did Circulate! 8bbl back to pit.
Thank You!

CHARGE TO: Murfin Drilling Co.

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 991.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 25 @ 7.00 175.00

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL 1166.00

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

8 5/8 Wooden Plug @ _____

_____ @ _____

_____ @ _____

TOTAL N-C

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 Bree Condren

SIGNATURE Bree Condren

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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KCC WICHITA



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
 Fax: (785) 483-5566

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KCC WICHITA

appt. try.
INVOICE

Invoice Number: 122781

Invoice Date: May 22, 2010

Page: 1

Bill To:
 Murfin Drig. Co., Inc.
 250 N. Water
 STE #300
 Wichita, KS 67202

*operator Pay
 MDC*

PROD COPY

KCC
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CONFIDENTIAL

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Zeigda Unit #1-4 <i>su</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Russell	May 22, 2010	6/21/10

Quantity	Item	Description	Unit Price	Amount
147.00	MAT	Class A Common	13.50	1,984.50
98.00	MAT	Pozmix	7.55	739.90
8.00	MAT	Gel	20.25	162.00
61.00	MAT	Flo Seal	2.45	149.45
122.00	SER	Handling	2.25	274.50
1.00	SER	Handling Mileage Charge	300.00	300.00
1.00	SER	Rotary Plug ✓	991.00	991.00
25.00	SER	Pump Truck Mllege	7.00	175.00
1.00	EQP	8.5/8 Wooden Plug	39.00	39.00

Account	Unit	W	No.	Amount	Description
<i>03600</i>	<i>020</i>	<i>W</i>	<i>3661</i>	<i>5094.64</i> <i>(1685.37)</i>	<i>PTA</i>

Subtotal	4,815.35
Sales Tax	279.29
Total Invoice Amount	5,094.64
Payment/Credit Applied	
TOTAL	5,094.64

ALL PRICES ARE NET PAYABLE
 30 DAYS FOLLOWING DATE OF
 INVOICE. 1 1/2% CHARGED
 THEREAFTER. IF ACCOUNT IS
 CURRENT, TAKE DISCOUNT OF

\$ 1685.37

ONLY IF PAID ON OR BEFORE

Jun 16, 2010

1685.37
K340927

ALLIED CEMENTING CO., LLC. 041697

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

SERVICE POINT: Russell

DATE <u>5-20-10</u>	SEC <u>4</u>	TWP. <u>11</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00</u>	JOB FINISH <u>12:30 a.m.</u>
LEASE <u>2e:9:0e</u>	WELL # <u>1.4</u>	LOCATION <u>J.704 Bge 10N W10E</u>			COUNTY <u>W3</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)						<u>W30</u>	

CONTRACTOR Murkin 20* OWNER _____
 TYPE OF JOB Ratney Plug
 HOLE SIZE 7 7/8 T.D. 3850'
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 X 4 DEPTH 3732'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

CEMENT
 AMOUNT ORDERED 245 @ 40 4 1/2 Gal
147# Flo

COMMON	<u>147</u>	@	<u>13.50</u>	<u>1984.50</u>
POZMIX	<u>98</u>	@	<u>7.50</u>	<u>739.00</u>
GEL	<u>8</u>	@	<u>20.25</u>	<u>162.00</u>
CHLORIDE		@		
ASC		@		
<u>Flow Seal</u>	<u>61 lbs</u>	@	<u>2.45</u>	<u>149.45</u>
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>122</u>	@	<u>2.25</u>	<u>274.50</u>
MILEAGE	<u>SK/mi/10</u>	@		<u>300.00</u>
TOTAL				<u>3610.35</u>

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EQUIPMENT

PUMP TRUCK CEMENTER Ray
 # 398 HELPER Russell
 BULK TRUCK _____
 # 410 DRIVER Mark
 BULK TRUCK _____
 # _____ DRIVER _____

REMARKS:

<u>1st</u>	<u>3732</u>	<u>25SK</u>
	<u>1630</u>	<u>25SK</u>
	<u>810</u>	<u>100SK</u>
	<u>280</u>	<u>40SK</u>
	<u>40</u>	<u>12SK</u>
	<u>Ratney</u>	<u>30SK</u>
	<u>Mouse</u>	<u>45SK</u>

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE 991.00
 EXTRA FOOTAGE @ _____
 MILEAGE 25 @ 7.00 175.00
 MANIFOLD @ _____
 @ _____
 @ _____

CHARGE TO: Mark
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 1166.00

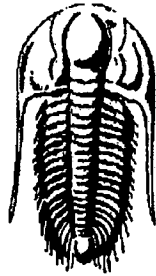
PLUG & FLOAT EQUIPMENT

<u>8 7/8 wooden Plug</u>	@	<u>39.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>39.00</u>

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.

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Breg Carden
 SIGNATURE Breg Carden



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc.**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Kent Crisler

4-11s-21w Trego KS

Zeigda Unit #1-4

Start Date: 2010.05.17 @ 08:42:17

End Date: 2010.05.17 @ 14:39:47

Job Ticket #: 38632 DST #: 1

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AUG 20 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

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38632

DST#: 1

ATTN: Kent Crisler

Test Start: 2010.05.17 @ 08:42:17

GENERAL INFORMATION:

Formation: **30' Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:01:47

Time Test Ended: 14:39:47

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3200.00 ft (KB) To 3248.00 ft (KB) (TVD)**

Total Depth: 3248.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2155.00 ft (KB)

2144.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 51.16 psig @ 3236.00 ft (KB)

Start Date: 2010.05.17

End Date:

2010.05.17

Capacity: 8000.00 psig

Last Calib.: 2010.05.17

Start Time: 08:42:19

End Time:

14:39:47

Time On Btm: 2010.05.17 @ 11:01:17

Time Off Btm: 2010.05.17 @ 13:02:17

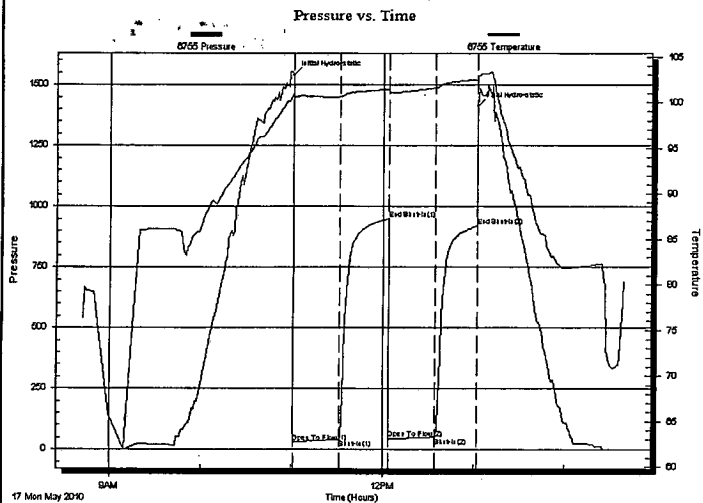
TEST COMMENT: IFP-Weak Blow, Dead in 10 Min.

ISI-Dead

FFP-Dead

FSL-Dead

PRESSURE SUMMARY



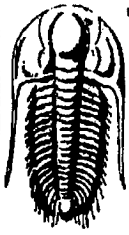
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1540.28	101.06	Initial Hydro-static
1	31.01	100.57	Open To Flow (1)
31	41.30	100.61	Shut-In(1)
63	949.75	101.47	End Shut-In(1)
63	46.13	101.07	Open To Flow (2)
93	51.16	101.60	Shut-In(2)
121	920.35	102.53	End Shut-In(2)
121	1412.71	102.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wchita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38632

DST#: 1

ATTN: Kent Crisler

Test Start: 2010.05.17 @ 08:42:17

Tool Information

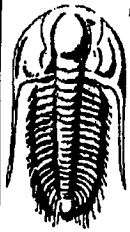
Drill Pipe:	Length: 3005.00 ft	Diameter: 3.80 inches	Volume: 42.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 43.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3200.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3173.00	
Shut In Tool	5.00			3178.00	
Hydraulic tool	5.00			3183.00	
Jars	5.00			3188.00	
Safety Joint	2.00			3190.00	
Packer	5.00			3195.00	28.00 Bottom Of Top Packer
Packer	5.00			3200.00	
Stubb	1.00			3201.00	
Perforations	1.00			3202.00	
Change Over Sub	1.00			3203.00	
Blank Spacing	32.00			3235.00	
Change Over Sub	1.00			3236.00	
Recorder	0.00	6755	Inside	3236.00	
Recorder	0.00	8360	Outside	3236.00	
Perforations	9.00			3245.00	
Bullnose	3.00			3248.00	48.00 Bottom Packers & Anchor
Total Tool Length:	76.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38632

DST#: 1

ATTN: Kent Crisler

Test Start: 2010.05.17 @ 08:42:17

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: 73.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.58 in ³	Gas Cushion Type:		
Resistivity: ohmm	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

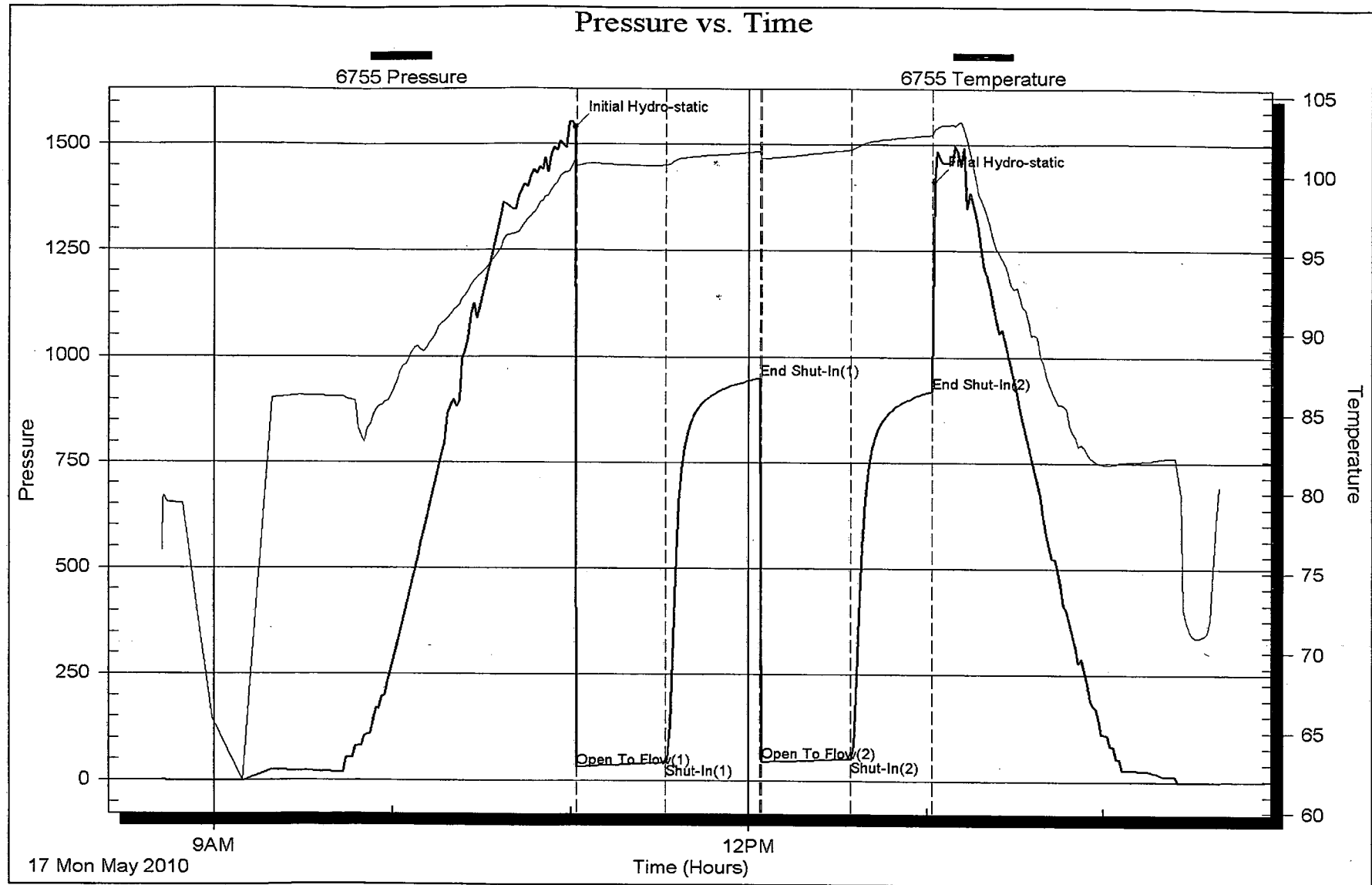
Length ft	Description	Volume bbl
15.00	Drilling Mud	0.074

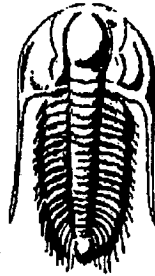
Total Length: 15.00 ft Total Volume: 0.074 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc.**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Kent Crisler

4-11s-21w Trego KS

Zeigda Unit #1-4

Start Date: 2010.05.18 @ 06:45:23

End Date: 2010.05.18 @ 14:30:23

Job Ticket #: 38633 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Company, Inc.

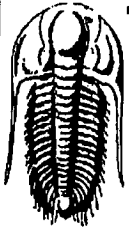
Zeigda Unit #1-4

4-11s-21w Trego KS

DST # 2

LKC-"A-B"

2010.05.18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

ATTN: Kent Crisler

Job Ticket: 38633

DST#: 2

Test Start: 2010.05.18 @ 06:45:23

GENERAL INFORMATION:

Formation: **LKC-"A-B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:43:53
 Time Test Ended: 14:30:23

Test Type: Conventional Bottom Hole
 Tester: Jason McLemore
 Unit No: 32

Interval: **3424.00 ft (KB) To 3490.00 ft (KB) (TVD)**
 Total Depth: 3490.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2155.00 ft (KB)
 2144.00 ft (CF)
 KB to GRVCF: 11.00 ft

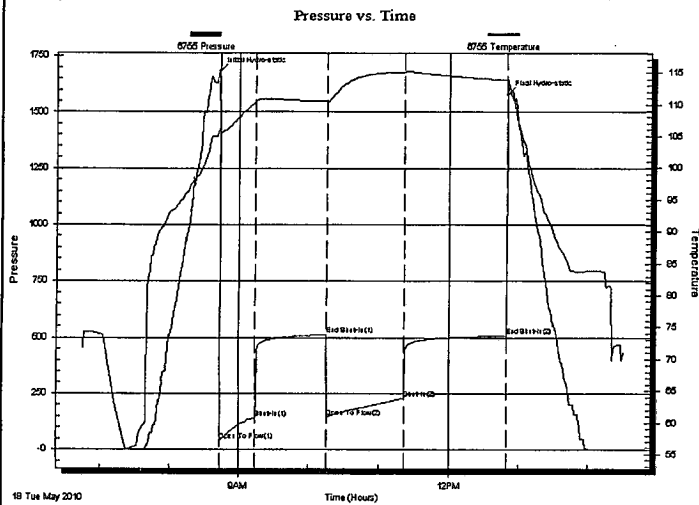
Serial #: 6755

Inside

Press@RunDepth: 229.89 psig @ 3459.00 ft (KB)
 Start Date: 2010.05.18 End Date: 2010.05.18
 Start Time: 06:45:25 End Time: 14:30:23

Capacity: 8000.00 psig
 Last Calib.: 2010.05.18
 Time On Btm: 2010.05.18 @ 08:42:53
 Time Off Btm: 2010.05.18 @ 12:49:53

TEST COMMENT: IFF-Good Blow ,BOB in 22 Mn.
 ISI-Dead
 FFF-Good Blow ,BOB in 40 Mn.
 FSI-Dead



PRESSURE SUMMARY

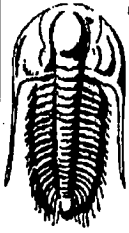
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.80	106.06	Initial Hydro-static
1	40.23	105.61	Open To Flow (1)
31	141.33	110.34	Shut-In(1)
93	511.30	110.53	End Shut-In(1)
93	146.87	110.35	Open To Flow (2)
159	229.89	115.09	Shut-In(2)
246	507.20	113.88	End Shut-In(2)
247	1580.29	113.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	Muddy Water-90%W-10%M	4.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38633

DST#: 2

ATTN: Kent Crisler

Test Start: 2010.05.18 @ 06:45:23

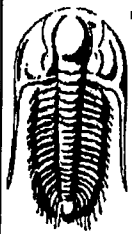
Tool Information

Drill Pipe:	Length: 3226.00 ft	Diameter: 3.80 inches	Volume: 45.25 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: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 46.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3424.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3397.00	
Shut In Tool	5.00			3402.00	
Hydraulic tool	5.00			3407.00	
Jars	5.00			3412.00	
Safety Joint	2.00			3414.00	
Packer	5.00			3419.00	28.00 Bottom Of Top Packer
Packer	5.00			3424.00	
Stubb	1.00			3425.00	
Perforations	1.00			3426.00	
Change Over Sub	1.00			3427.00	
Blank Spacing	31.00			3458.00	
Change Over Sub	1.00			3459.00	
Recorder	0.00	6755	Inside	3459.00	
Recorder	0.00	8360	Outside	3459.00	
Perforations	28.00			3487.00	
Bullnose	3.00			3490.00	66.00 Bottom Packers & Anchor
Total Tool Length:	94.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38633

DST#: 2

ATTN: Kent Crisler

Test Start: 2010.05.18 @ 06:45:23

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:

57000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
420.00	Muddy Water-90%W-10%M	4.279

Total Length: 420.00 ft Total Volume: 4.279 bbf

Num Fluid Samples: 0

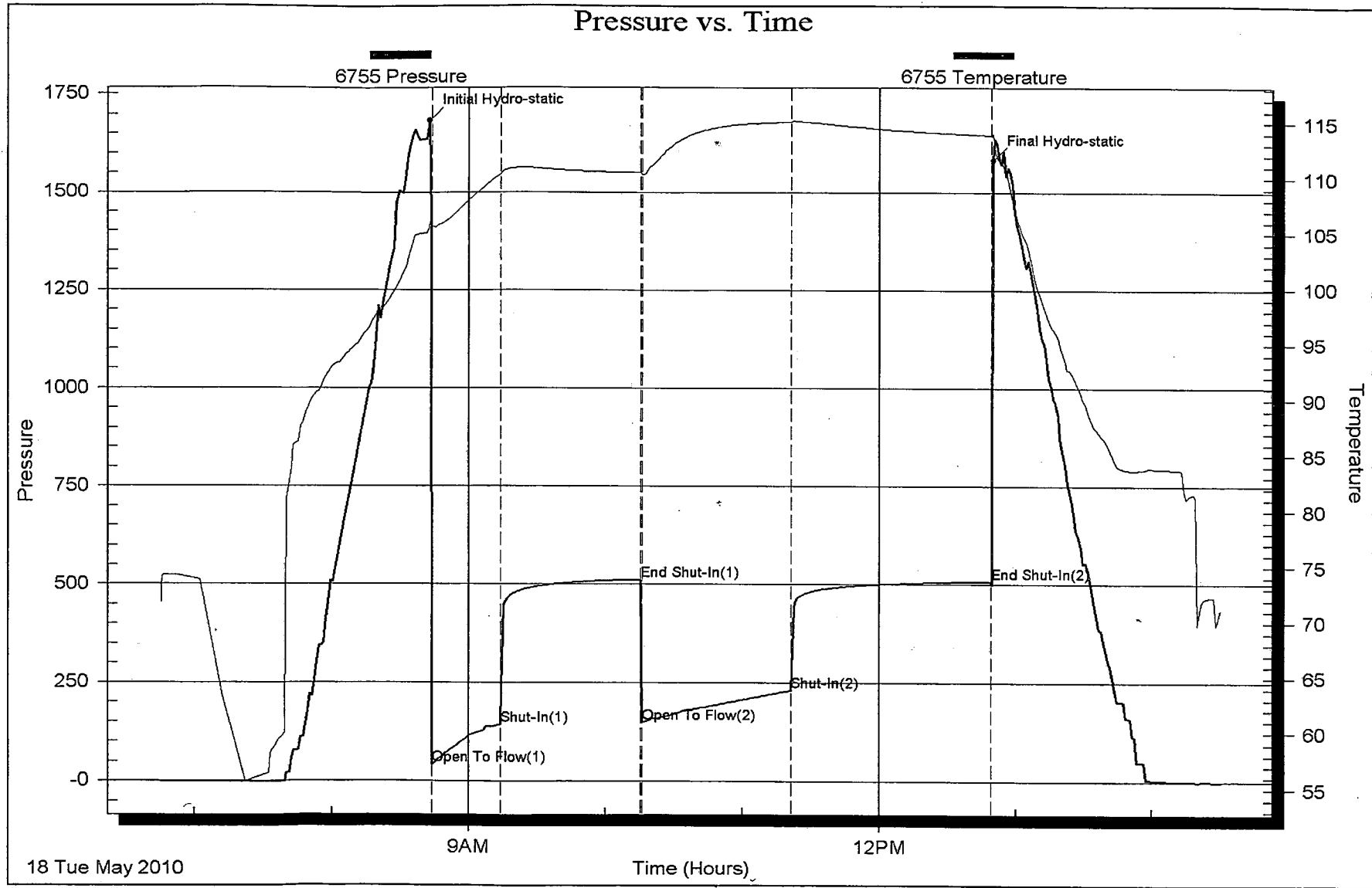
Num Gas Bombs: 0

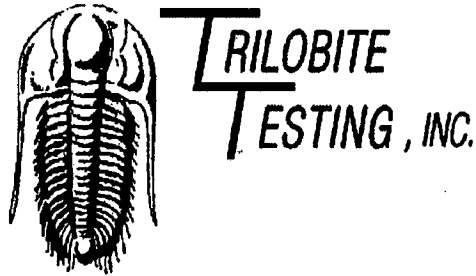
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .109 @ 80F = 57000 chlorides





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc.**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Kent Crisler

4-11s-21w Trego KS

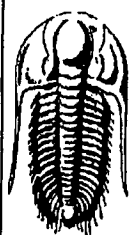
Zeigda Unit #1-4

Start Date: 2010.05.18 @ 20:56:15

End Date: 2010.05.19 @ 04:04:45

Job Ticket #: 38634 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38634

DST#: 3

ATTN: Kent Crisler

Test Start: 2010.05.18 @ 20:56:15

GENERAL INFORMATION:

Formation: **LKC-"E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:36:45

Time Test Ended: 04:04:45

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3500.00 ft (KB) To 3528.00 ft (KB) (TVD)**

Total Depth: 3528.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2155.00 ft (KB)

2144.00 ft (CF)

KB to GRVCF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 58.36 psig @ 3502.00 ft (KB)

Start Date: 2010.05.18

End Date: 2010.05.19

Start Time: 20:56:17

End Time: 04:04:45

Capacity: 8000.00 psig

Last Calib.: 2010.05.19

Time On Btm: 2010.05.18 @ 22:36:15

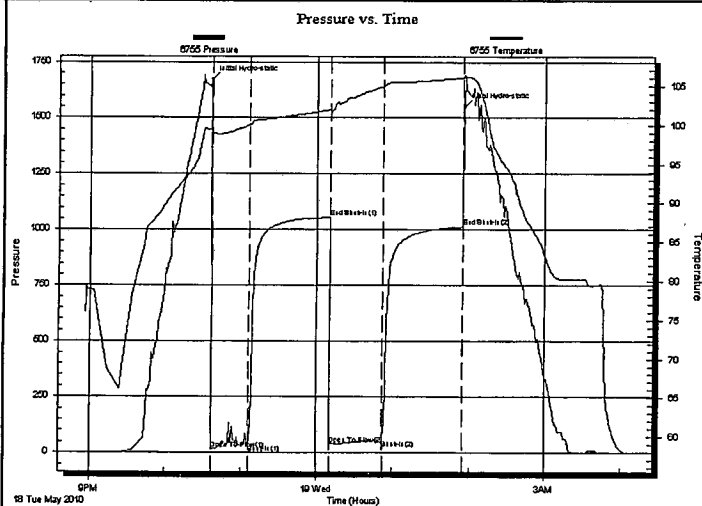
Time Off Btm: 2010.05.19 @ 01:55:45

TEST COMMENT: IFP-Weak Blow, Built to 2-1/4" Some Plugging Action in Bucket

ISI-Dead

FFP-Weak Blow, Built to 1"

FSI-Dead



PRESSURE SUMMARY

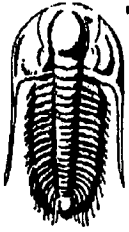
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.58	99.56	Initial Hydro-static
1	16.34	99.01	Open To Flow (1)
30	35.15	100.07	Shut-In(1)
94	1053.60	101.97	End Shut-In(1)
95	38.24	101.39	Open To Flow (2)
136	58.36	104.98	Shut-In(2)
199	1013.10	106.04	End Shut-In(2)
200	1550.44	106.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Watery Mud-10%W-90%M	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38634

DST#: 3

ATTN: Kent Crisler

Test Start: 2010.05.18 @ 20:56:15

Tool Information

Drill Pipe:	Length: 3315.00 ft	Diameter: 3.80 inches	Volume: 46.50 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: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3500.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 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			3473.00	
Shut In Tool	5.00			3478.00	
Hydraulic tool	5.00			3483.00	
Jars	5.00			3488.00	
Safety Joint	2.00			3490.00	
Packer	5.00			3495.00	28.00 Bottom Of Top Packer
Packer	5.00			3500.00	
Stubb	1.00			3501.00	
Perforations	1.00			3502.00	
Recorder	0.00	6755	Inside	3502.00	
Recorder	0.00	8360	Outside	3502.00	
Perforations	23.00			3525.00	
Bullnose	3.00			3528.00	28.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38634

DST#: 3

ATTN: Kent Crisler

Test Start: 2010.05.18 @ 20:56:15

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:

32000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	Watery Mud-10%W-90%M	0.393

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

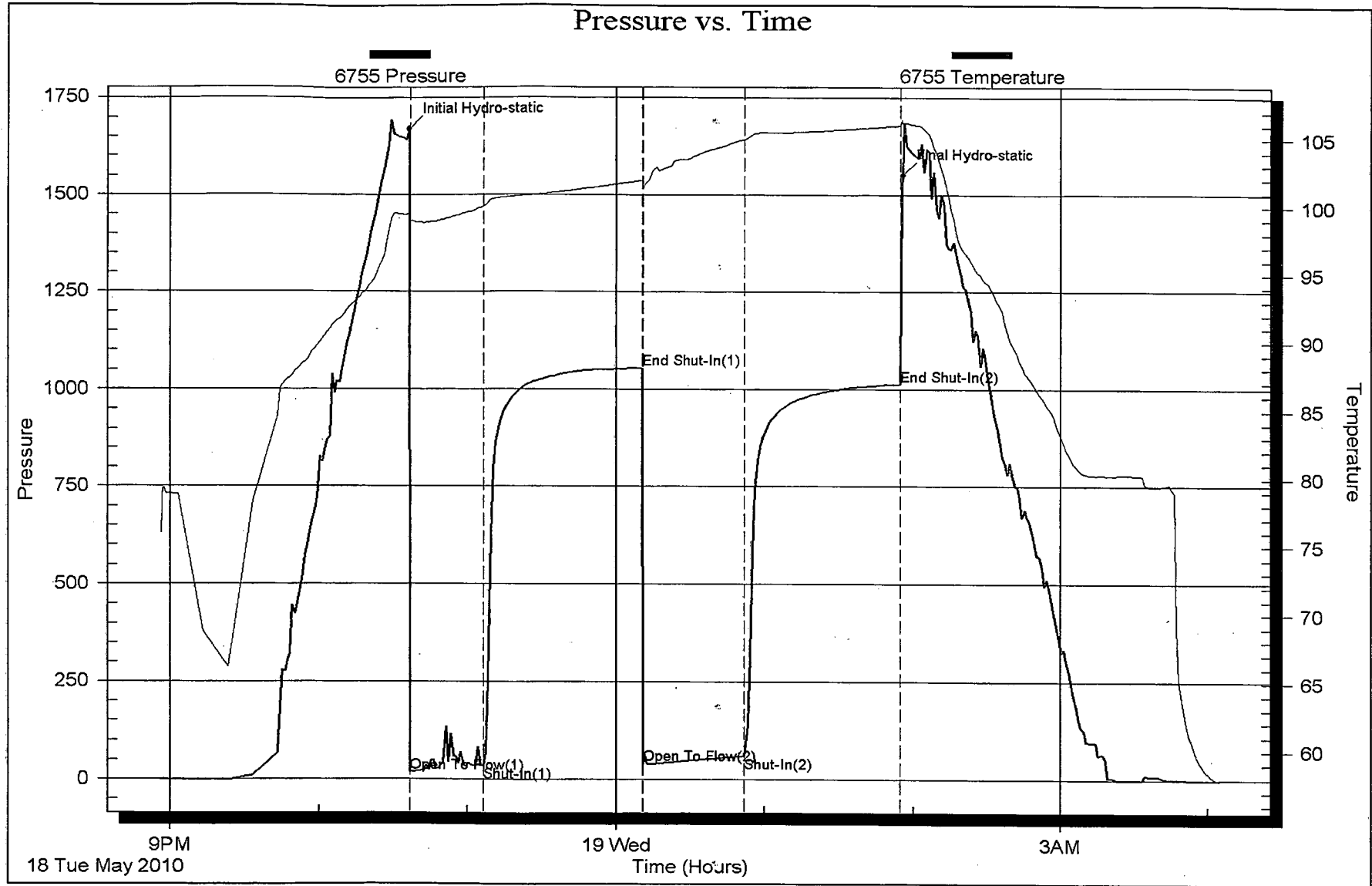
Num Gas Bombs: 0

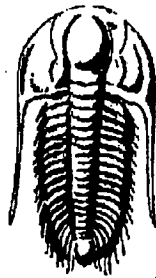
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .240 @ 59F = 32000 ppm chlorides





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc.**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Kent Crisler

4-11s-21w Trego KS

Zeigda Unit #1-4

Start Date: 2010.05.19 @ 20:45:51

End Date: 2010.05.20 @ 06:02:51

Job Ticket #: 38635 DST #: 4

RECEIVED
AUG 2 0 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

Murfin Drilling Company, Inc.

250 N Water Ste 300
Wichita, KS 67202

ATTN: Kent Crisler

Zeigda Unit #1-4

4-11s-21w Trego KS

Job Ticket: 38635

DST#: 4

Test Start: 2010.05.19 @ 20:45:51

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:56:51

Time Test Ended: 06:02:51

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3758.00 ft (KB) To 3771.00 ft (KB) (TVD)**

Total Depth: 3771.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2155.00 ft (KB)

2144.00 ft (CF)

KB to GRVCF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 94.35 psig @ 3760.00 ft (KB)

Start Date: 2010.05.19 End Date:

Start Time: 20:45:53 End Time:

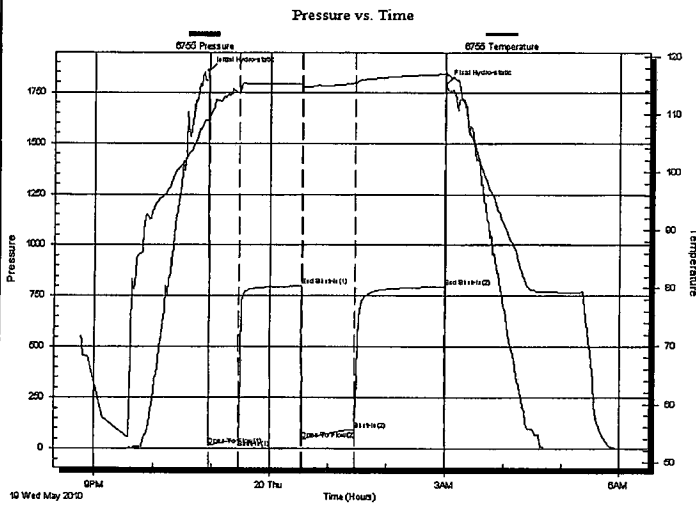
Capacity: 8000.00 psig

Last Calib.: 2010.05.20

Time On Btm: 2010.05.19 @ 22:55:51

Time Off Btm: 2010.05.20 @ 03:00:21

TEST COMMENT: IFF-Weak Blow , Built to 3"
ISI-Dead
FFF-Weak Blow , Built to 3-1/2"
FSI-Dead



PRESSURE SUMMARY

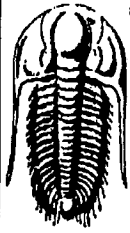
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.57	109.02	Initial Hydro-static
1	17.78	108.99	Open To Flow (1)
32	42.11	113.61	Shut-In(1)
97	798.16	115.30	End Shut-In(1)
98	44.99	114.82	Open To Flow (2)
152	94.35	115.40	Shut-In(2)
243	795.60	116.90	End Shut-In(2)
245	1791.18	117.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCMW-10%O-80%W-10%M	0.59
40.00	OCCMW-20%O-40%M-40%W	0.20
30.00	Clean Oil	0.27

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38635

DST#: 4

ATTN: Kent Crisler

Test Start: 2010.05.19 @ 20:45:51

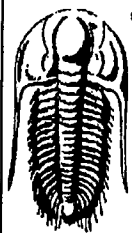
Tool Information

Drill Pipe:	Length: 3569.00 ft	Diameter: 3.80 inches	Volume: 50.06 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: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 50.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3758.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 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			3731.00	
Shut In Tool	5.00			3736.00	
Hydraulic tool	5.00			3741.00	
Jars	5.00			3746.00	
Safety Joint	2.00			3748.00	
Packer	5.00			3753.00	28.00 Bottom Of Top Packer
Packer	5.00			3758.00	
Stubb	1.00			3759.00	
Perforations	1.00			3760.00	
Recorder	0.00	6755	Inside	3760.00	
Recorder	0.00	8360	Outside	3760.00	
Perforations	8.00			3768.00	
Bullnose	3.00			3771.00	13.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38635

DST#: 4

ATTN: Kent Crisler

Test Start: 2010.05.19 @ 20:45:51

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 29 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 31000 ppm
Viscosity: 73.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.58 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SOCMW-10%O-80%W-10%M	0.590
40.00	OCMW-20%O-40%M-40%W	0.197
30.00	Clean Oil	0.266

Total Length: 190.00 ft Total Volume: 1.053 bbl

Num Fluid Samples: 0

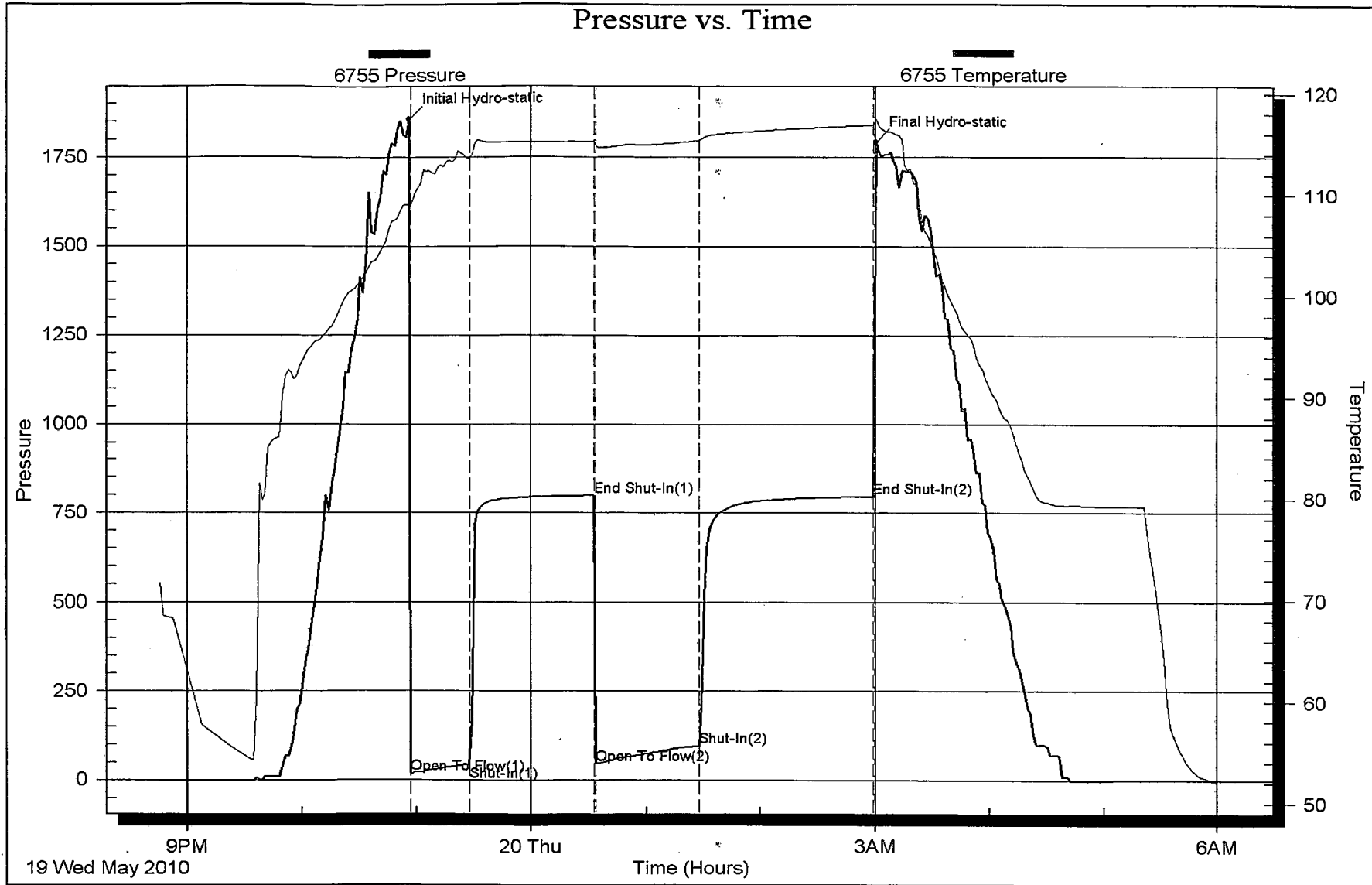
Num Gas Bombs: 0

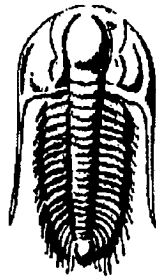
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.277 @ 53 = 31000 ppm chlorides





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, Inc.**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Kent Crisler

4-11s-21w Trego KS

Zeigda Unit #1-4

Start Date: 2010.05.20 @ 14:48:14

End Date: 2010.05.20 @ 22:52:44

Job Ticket #: 38636 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Company, Inc.

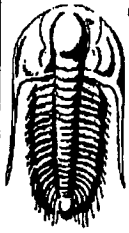
Zeigda Unit #1-4

4-11s-21w Trego KS

DST # 5

Arbuckle

2010.05.20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38636

DST#: 5

ATTN: Kent Crisler

Test Start: 2010.05.20 @ 14:48:14

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:29:44
 Time Test Ended: 22:52:44

Test Type: Conventional Bottom Hole
 Tester: Jason McLemore
 Unit No: 32

Interval: **3772.00 ft (KB) To 3795.00 ft (KB) (TVD)**
 Total Depth: 3795.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2155.00 ft (KB)
 2144.00 ft (CF)
 KB to GR/CF: 11.00 ft

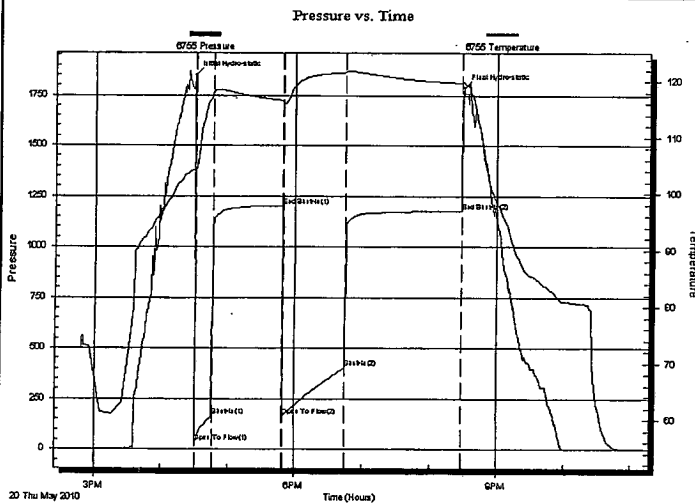
Serial #: 6755

Inside

Press@RunDepth: 404.88 psig @ 3774.00 ft (KB)
 Start Date: 2010.05.20 End Date: 2010.05.20
 Start Time: 14:48:16 End Time: 22:52:44

Capacity: 8000.00 psig
 Last Calib.: 2010.05.20
 Time On Btm: 2010.05.20 @ 16:29:14
 Time Off Btm: 2010.05.20 @ 20:29:44

TEST COMMENT: IFF-Good Blow, BOB in 7 Min.
 ISI-Dead
 FFF-God Blow, BOB in 9 Min.
 FSI-Dead



PRESSURE SUMMARY

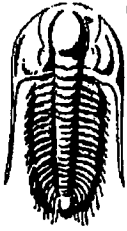
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.81	104.34	Initial Hydro-static
1	32.91	103.51	Open To Flow (1)
17	164.60	117.65	Shut-In(1)
80	1200.71	116.63	End Shut-In(1)
80	165.24	116.23	Open To Flow (2)
136	404.88	121.59	Shut-In(2)
239	1176.05	119.77	End Shut-In(2)
241	1787.21	119.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	Muddy Water-90%W-10%M	6.80
205.00	OCCW-25%O-40%W-35%M	2.88
45.00	Free Oil	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38636

DST#: 5

ATTN: Kent Crisler

Test Start: 2010.05.20 @ 14:48:14

Tool Information

Drill Pipe:	Length: 3598.00 ft	Diameter: 3.80 inches	Volume: 50.47 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: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 51.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3772.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 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			3745.00	
Shut In Tool	5.00			3750.00	
Hydraulic tool	5.00			3755.00	
Jars	5.00			3760.00	
Safety Joint	2.00			3762.00	
Packer	5.00			3767.00	28.00 Bottom Of Top Packer
Packer	5.00			3772.00	
Stubb	1.00			3773.00	
Perforations	1.00			3774.00	
Recorder	0.00	6755	Inside	3774.00	
Recorder	0.00	8360	Outside	3774.00	
Perforations	18.00			3792.00	
Bullnose	3.00			3795.00	23.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc.

Zeigda Unit #1-4

250 N Water Ste 300
Wichita, KS 67202

4-11s-21w Trego KS

Job Ticket: 38636

DST#: 5

ATTN: Kent Crisler

Test Start: 2010.05.20 @ 14:48:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 29000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
600.00	Muddy Water-90%W-10%M	6.804
205.00	OCCMW-25%O-40%W-35%M	2.876
45.00	Free Oil	0.631

Total Length: 850.00 ft Total Volume: 10.311 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .258 @ 56F = 29000 chlorides

