

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

RECEIVED

OCT 01 2010

ORIGINAL

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

9/29/12

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
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Rocky Milford
Purchaser: None

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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>08/28/10</u>	<u>09/06/10</u>	<u>09/06/10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 153-20887-0000

Spot Description: _____
SE NW NE SW Sec. 26 Twp. 05 S. R. 31 East West
2280 Feet from North / South Line of Section
1700 Feet from East / West Line of Section

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

County: Rawlins
Lease Name: Withers Well #: 1-26
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 2940 Kelly Bushing: 2945
Total Depth: 4550 Plug Back Total Depth: None
Amount of Surface Pipe Set and Cemented at: 262 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: 09/29/10

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: 9/29/10 - 9/29/12
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: MS Date: 10-10-10

Operator Name: Murfin Drilling Company, Inc. Lease Name: Withers Well #: 1-26
 Sec. 26 Twp. 05 S. R. 31 East West County: Rawlins

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction, Compensated Porosity, Microresistivity	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attached List <div style="text-align: center;"> KCC SEP 29 2010 CONFIDENTIAL </div>
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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#	262	Common	180	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 <i>(Amount and Kind of Material Used)</i>	Depth
		RECEIVED OCT 01 2010 KCC WICHITA	

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio Gravity

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

Withers #1-26 2280 FSL 1700 FWL Sec. 26-T5S-R31W 2945' KB						Cheney Trust 'A' #3-25 1750 FSL 330 FWL Sec. 25-T5S-R31W 2952' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2655	+290	-16	2653	+292	-14	2646	+306
B/Anhydrite	2694	+251	-21	2688	+257	-15	2680	+272
Topeka	2756	-811	-19	3751	-806	-14	3744	-792
Heebner	3930	-985	-21	3925	-980	-16	3916	-964
Lansing	3962	-1017	-22	3972	-1027	-14	3965	-1013
Stark	4151	-1206	-22	4146	-1201	-17	4136	-1184
BKC	4204	-1259	-21	4199	-1254	-16	4190	-1238
Pawnee	4320	-1375		4310	-1365		NDE	NDE
Cherokee	4396	-1451		4400	-1455		NDE	NDE
Mississippi	4505	-1560		4500	-1555		NDE	NDE
RTD	4550	-1605					4300	
LTD				4546			4299	

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PO BOX 31 Russell, KS 67665

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

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fy

INVOICE

Invoice Number: 124230
Invoice Date: Aug 28, 2010
Page: 1

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

F
Operator Pay
moc
OB

Customer ID	Well-Name/# or Customer P.O.	Payment Terms	
Murfin	Withers #1-26	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 28, 2010	9/27/10

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Class A Common	15.45	2,781.00
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
189.00	SER	Handling	2.40	453.60
45.00	SER	Mileage 189 sx @.10 per sk per mi	18.90	850.50
1.00	SER	Surface	1,018.00	1,018.00
45.00	SER	Pump Truck Mileage	7.00	315.00

USED FOR _____

APPROVED _____

QIN

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

\$ 2040.39

ONLY IF PAID ON OR BEFORE
Sep 22, 2010

Subtotal	5,829.70
Sales Tax	257.00
Total Invoice Amount	6,086.70
Payment/Credit Applied	
TOTAL	6,086.70

2040.39
4046.31

ALLIED CEMENTING CO., LLC. 035631

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

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SERVICE POINT: Oakley

DATE <u>8-28-10</u>	SEC. <u>26</u>	TWP. <u>5</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30am</u>	JOB FINISH <u>6:00 P.M</u>
LEASE <u>Withers</u>	WELL # <u>1-26</u>		LOCATION <u>Rexford 7N 1W 1N</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)			<u>1W 1N E into</u>				

CONTRACTOR Murfin Drilling Rig 8

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 262'

CASING SIZE 8 5/8 DEPTH 262'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15

PERFS. _____

DISPLACEMENT 15.73 BBL

OWNER same

CEMENT AMOUNT ORDERED 180 sks com 3% cc 2% gel

COMMON	<u>180 sks</u>	@ <u>15.45</u>	<u>2781.00</u>
POZMIX		@	
GEL	<u>3.5 sks</u>	@ <u>20.80</u>	<u>62.40</u>
CHLORIDE	<u>6.5 sks</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>189 sks</u>	@ <u>2.40</u>	<u>453.60</u>
MILEAGE	<u>109.56/mile</u>		<u>850.50</u>
			<u>442.70</u>

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EQUIPMENT

PUMP TRUCK # 423-281 CEMENTER Andrew
HELPER Larene

BULK TRUCK # 347 DRIVER Darrin

BULK TRUCK # _____ DRIVER _____

REMARKS:

Cement did circulate

thank you

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>262'</u>		
PUMP TRUCK CHARGE			<u>1018.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>45.56 miles</u>	@ <u>7.00</u>	<u>35.00</u>
MANIFOLD		@	
		@	
		@	

TOTAL 1333.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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 Rodney Farr

SIGNATURE Rodney Farr



PO BOX 31 Russell, KS 67665

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

acct. Jij
INVOICE

Invoice Number: 124361
Invoice Date: Sep 6, 2010
Page: 1

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

*operator pay
mrc*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Withers #1-26 <i>BR</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Sep 6, 2010	10/6/10

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	15.45	2,039.40
88.00	MAT	Pozmix	8.00	704.00
8.00	MAT	Gel	20.80	166.40
55.00	MAT	Flo Seal	2.50	137.50
228.00	SER	Handling	2.40	547.20
45.00	SER	Mileage 228 sx @ .10 per sk per mi	22.80	1,026.00
1.00	SER	Plug to Abandon	1,185.00	1,185.00
45.00	SER	Pump Truck Mileage	7.00	315.00

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Subtotal	6,120.50
Sales Tax	492.70
Total Invoice Amount	6,613.20
Payment/Credit Applied	
TOTAL	6,613.20

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

\$ *2142.18*

ONLY IF PAID ON OR BEFORE

Oct 1, 2010

- 2142.18

4471.02

mrc

ALLIED CEMENTING CO., LLC. 035113A

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

KCC
SEP 29 2010

SERVICE POINT:
OAKLEY

DATE 9-6-10 SEC. 26 TWP. 55 RANGE CONFIDENTIAL 31W ON LOCATION 4:30 PM JOB START 7:30 PM JOB FINISH 8:00 PM
LEASE WITHERS WELL # 1-26 LOCATION REXFORD 7N-1W-15-1W-1/2W COUNTY RAWLINS STATE KS
OLD OR NEW (Circle one) E+S INTO

CONTRACTOR MURFIN DRUG REG #8 OWNER SAME
TYPE OF JOB PTA

HOLE SIZE 7 7/8" T.D. 4562
CASING SIZE _____ DEPTH _____
TUBING SIZE _____ DEPTH _____
DRILL PIPE 4 1/2" DEPTH 2674'
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. _____
PERFS. _____
DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER TERRY
422 HELPER ANDREW
BULK TRUCK
347 DRIVER WELL
BULK TRUCK
_____ DRIVER _____

REMARKS:

25 SKS AT 2674'
100 SKS AT 1890'
40 SKS AT 310'
10 SKS AT 40'
30 SKS RAT HO/E
15 SKS MOUSE HO/E

THANK YOU

CHARGE TO: MURFIN DRUG, CO.
STREET _____
CITY _____ STATE _____ ZIP _____

CEMENT AMOUNT ORDERED
220 SKS 60/40 902 HIGEL 1/4" P/O - SEAL
COMMON 132 SKS @ 15.45 2039.40
POZMIX 88 SKS @ 8.00 704.00
GEL 8 SKS @ 20.80 166.40
CHLORIDE @ _____
ASC @ _____
FLO-SEAL 55 @ 2.50 137.50
HANDLING 228 SKS @ 2.40 547.20
MILEAGE 104 PER SK / METS 1026
TOTAL 4620.50

SERVICE

DEPTH OF JOB 2674'
PUMP TRUCK CHARGE _____ 1185.00
EXTRA FOOTAGE @ _____
MILEAGE 45 ME @ 7.00 315.00
MANIFOLD @ _____
@ _____
@ _____

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PLUG & FLOAT EQUIPMENT

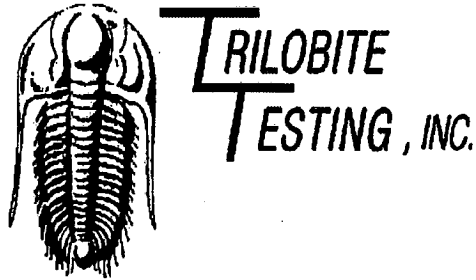
To Allied Cementing Co., LLC.

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 Rodney Fair
SIGNATURE Rodney Fair

TOTAL 1500.00
SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS

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DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

26/5s/31w Rawlins KS

Withers #1-26

Start Date: 2010.09.02 @ 20:23:00

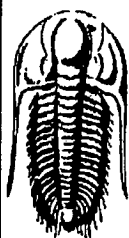
End Date: 2010.09.03 @ 05:18:30

Job Ticket #: 38393 DST #: 1

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KCC WICHITA

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Withers #1-26

26/5s/31w Rawlins KS

Job Ticket: 38393

DST#: 1

Test Start: 2010.09.02 @ 20:23:00

GENERAL INFORMATION:

Formation: **Toronto - Lans. "A &**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 22:48:30

Time Test Ended: 05:18:30

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Interval: **3929.00 ft (KB) To 4015.00 ft (KB) (TVD)**

Reference Elevations: **2945.00 ft (KB)**

Total Depth: **4015.00 ft (KB) (TVD)**

2940.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

Serial #: 8366

Inside

Press@RunDepth: **313.12 psig @ 3930.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.09.02** End Date: **2010.09.03**

Last Calib.: **2010.09.03**

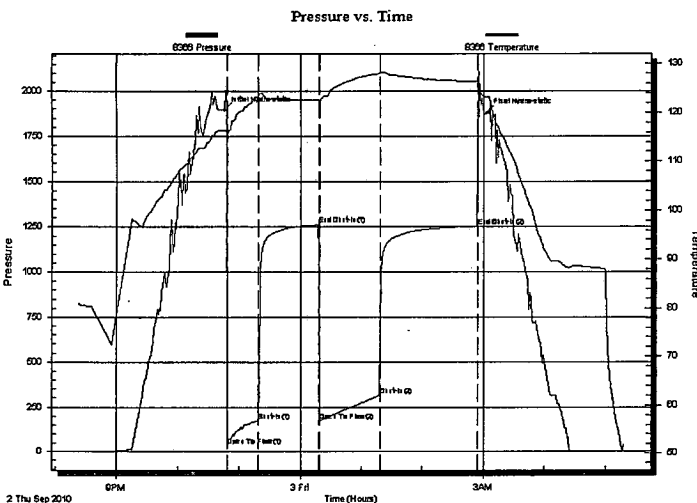
Start Time: **20:23:05** End Time: **05:18:30**

Time On Btm: **2010.09.02 @ 22:45:30**

Time Off Btm: **2010.09.03 @ 03:03:00**

TEST COMMENT: IF: Blow built to BOB in 17 min.
IS: Bled off, No blow back
FF: Blow built to BOB in 21 1/2 min.
FSI: Bled off, No blow back

PRESSURE SUMMARY



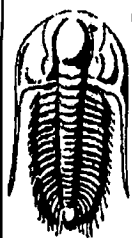
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.98	116.31	Initial Hydro-static
3	37.21	115.35	Open To Flow (1)
34	172.98	123.57	Shut-In(1)
93	1262.25	122.58	End Shut-In(1)
94	172.97	122.23	Open To Flow (2)
153	313.12	128.00	Shut-In(2)
249	1255.10	126.39	End Shut-In(2)
258	1878.42	123.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 80%w, 20%m	1.75
405.00	WCM 74%m, 26%w	5.68
0.00	Oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38393

DST#: 1

ATTN: Rocky Milford

Test Start: 2010.09.02 @ 20:23:00

Tool Information

Drill Pipe:	Length: 3756.00 ft	Diameter: 3.80 inches	Volume: 52.69 bbl	Tool Weight: 3500.00 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 56000.00 lb
		Total Volume:	53.57 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3929.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	114.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3906.00	
Hydraulic tool	5.00			3911.00	
Jars	5.00			3916.00	
Safety Joint	3.00			3919.00	
Packer	5.00			3924.00	28.00 Bottom Of Top Packer
Packer	5.00			3929.00	
Stubb	1.00			3930.00	
Recorder	0.00	8366	Inside	3930.00	
Recorder	0.00	8320	Inside	3930.00	
Perforations	16.00			3946.00	
Blank Spacing	64.00			4010.00	
Perforations	2.00			4012.00	
Bullnose	3.00			4015.00	86.00 Bottom Packers & Anchor

Total Tool Length: 114.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

Withers #1-26
26/5s/31w Rawlins KS
Job Ticket: 38393 DST#: 1
Test Start: 2010.09.02 @ 20:23:00

Mud and Cushion Information

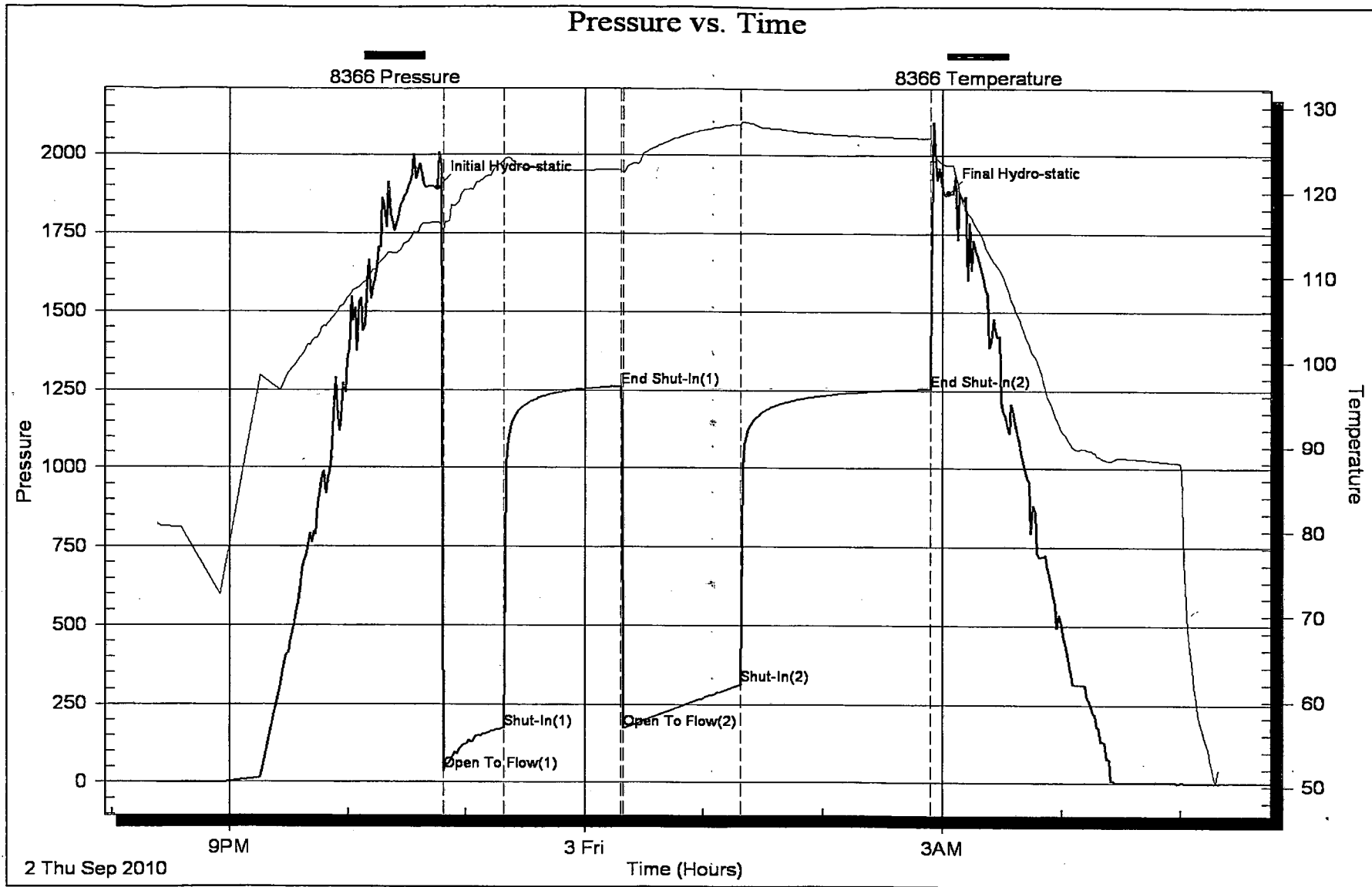
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	22000 ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

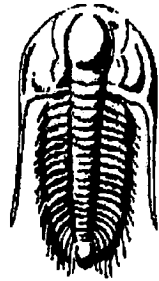
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MCW 80%w , 20%m	1.745
405.00	WCM 74%m, 26%w	5.681
0.00	Oil spots in tool	0.000

Total Length: 645.00 ft Total Volume: 7.426 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 Co., Inc.**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

26/5s/31w Rawlins KS

Withers #1-26

Start Date: 2010.09.03 @ 15:28:00

End Date: 2010.09.03 @ 22:02:30

Job Ticket #: 38394 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co., Inc.

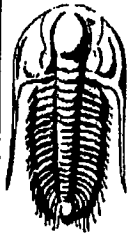
Withers #1-26

26/5s/31w Rawlins KS

DST # 2

Lans. "E - F"

2010.09.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

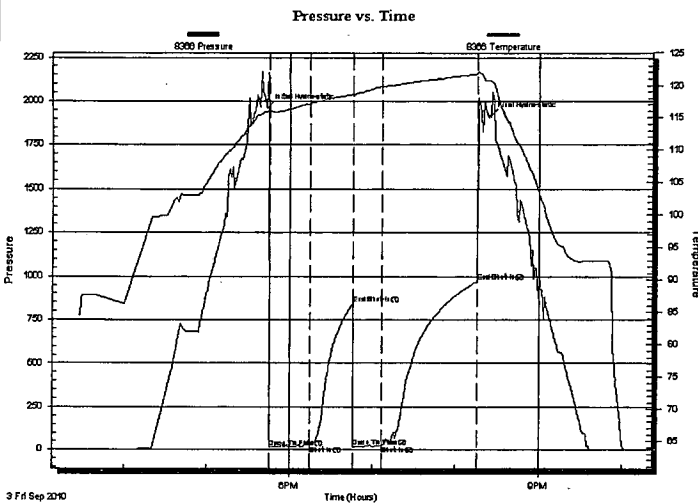
Withers #1-26
26/5s/31w Rawlins KS
Job Ticket: 38394 **DST#: 2**
Test Start: 2010.09.03 @ 15:28:00

GENERAL INFORMATION:

Formation: **Lans. "E - F"**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **17:45:30**
 Tester: **James Winder**
 Time Test Ended: **22:02:30**
 Unit No: **46**
 Interval: **4034.00 ft (KB) To 4060.00 ft (KB) (TVD)**
 Reference Elevations: **2945.00 ft (KB)**
 Total Depth: **4060.00 ft (KB) (TVD)**
2940.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **5.00 ft**

Serial #: 8366 **Inside**
 Press@RunDepth: **22.62 psig @ 4035.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.09.03** End Date: **2010.09.03** Last Calib.: **2010.09.03**
 Start Time: **15:28:05** End Time: **22:02:29** Time On Btm: **2010.09.03 @ 17:43:30**
 Time Off Btm: **2010.09.03 @ 20:24:30**

TEST COMMENT: IF: Weak surface blow for 8 min., Intermittent blow 8 - 21 min., dead @ 21 min.
 IS: No blow back
 FF: No blow
 FSI: No blow back



PRESSURE SUMMARY

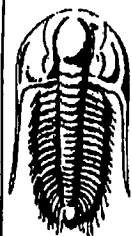
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.17	115.87	Initial Hydro-static
2	16.00	115.85	Open To Flow (1)
31	23.21	117.17	Shut-In(1)
62	839.41	118.53	End Shut-In(1)
63	19.56	118.28	Open To Flow (2)
83	22.62	119.75	Shut-In(2)
152	970.75	121.68	End Shut-In(2)
161	1913.64	120.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.05
0.00	Oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

Withers #1-26
26/5s/31w Rawlins KS
Job Ticket: 38394 DST#: 2
Test Start: 2010.09.03 @ 15:28:00

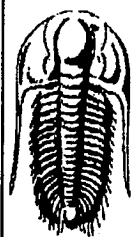
Tool Information

Drill Pipe:	Length: 3855.00 ft	Diameter: 3.80 inches	Volume: 54.08 bbl	Tool Weight: 1500.00 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 54.96 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4034.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4019.00	
Hydraulic tool	5.00			4024.00	
Packer	5.00			4029.00	20.00 Bottom Of Top Packer
Packer	5.00			4034.00	
Stubb	1.00			4035.00	
Recorder	0.00	8366	Inside	4035.00	
Recorder	0.00	8320	Inside	4035.00	
Perforations	22.00			4057.00	
Bullnose	3.00			4060.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38394

DST#: 2

ATTN: Rocky Milford

Test Start: 2010.09.03 @ 15:28:00

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: 75.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

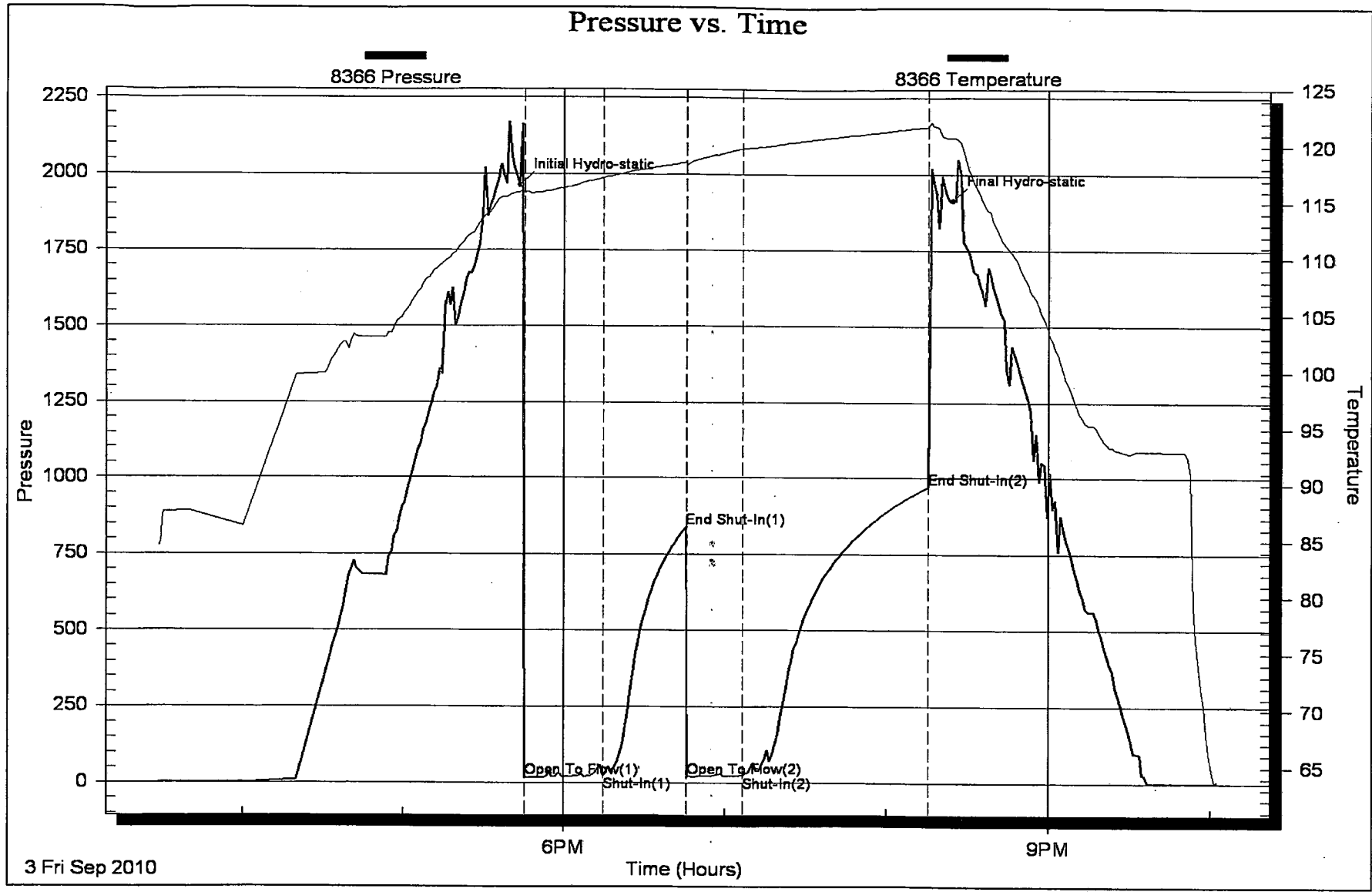
Length ft	Description	Volume bbl
10.00	Mud 100%	0.049
0.00	Oil spots in tool	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

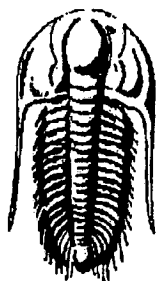
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



3 Fri Sep 2010



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

26/5s/31w Rawlins KS

Withers #1-26

Start Date: 2010.09.04 @ 12:39:00

End Date: 2010.09.04 @ 22:49:00

Job Ticket #: 38395 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co., Inc.

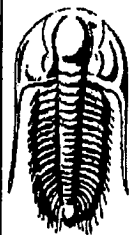
Withers #1-26

26/5s/31w Rawlins KS

DST # 3

Lans. "J - K"

2010.09.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Withers #1-26

26/5s/31w Rawlins KS

Job Ticket: 38395

DST#: 3

Test Start: 2010.09.04 @ 12:39:00

GENERAL INFORMATION:

Formation: **Lans. "J - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:36:00

Time Test Ended: 22:49:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: **4110.00 ft (KB) To 4185.00 ft (KB) (TVD)**

Total Depth: 4185.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2945.00 ft (KB)

2940.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 36.75 psig @ 4111.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.04 End Date: 2010.09.04

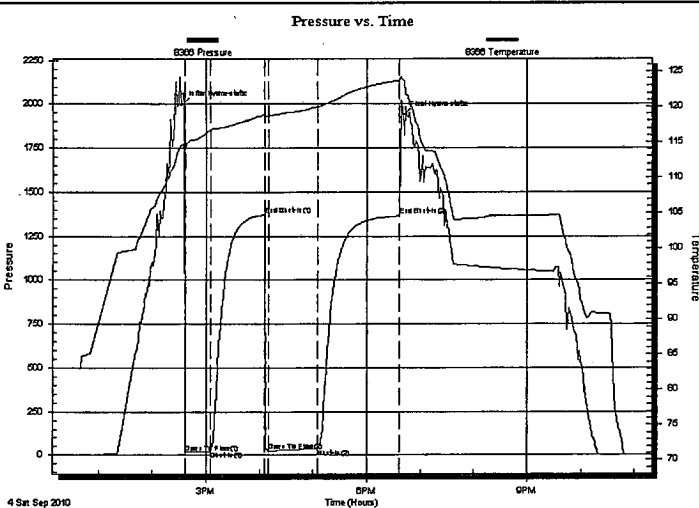
Last Calib.: 2010.09.04

Start Time: 12:39:05 End Time: 22:49:00

Time On Btm: 2010.09.04 @ 14:33:00

Time Off Btm: 2010.09.04 @ 18:41:00

TEST COMMENT: IF: Blow built to 1"
IS: Bled off, No blow back
FF: Blow started @ 13 min., Intermittent blow till shut in
FSI: No blow back



PRESSURE SUMMARY

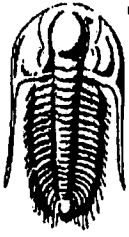
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.81	114.63	Initial Hydro-static
3	15.51	114.05	Open To Flow (1)
33	23.00	116.81	Shut-In(1)
93	1371.77	118.85	End Shut-In(1)
97	25.35	118.67	Open To Flow (2)
153	36.75	120.01	Shut-In(2)
244	1363.65	123.64	End Shut-In(2)
248	1936.16	123.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
57.00	MCW 62%w, 38%m	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38395

DST#: 3

ATTN: Rocky Milford

Test Start: 2010.09.04 @ 12:39:00

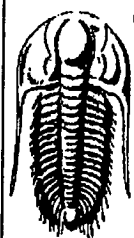
Tool Information

Drill Pipe:	Length: 3919.00 ft	Diameter: 3.80 inches	Volume: 54.97 bbl	Tool Weight: 2000.00 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 55.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4110.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4095.00	
Hydraulic tool	5.00			4100.00	
Packer	5.00			4105.00	20.00 Bottom Of Top Packer
Packer	5.00			4110.00	
Stubb	1.00			4111.00	
Recorder	0.00	8366	Inside	4111.00	
Recorder	0.00	8320	Inside	4111.00	
Perforations	5.00			4116.00	
Blank Spacing	64.00			4180.00	
Perforations	2.00			4182.00	
Bullnose	3.00			4185.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38395

DST#: 3

ATTN: Rocky Milford

Test Start: 2010.09.04 @ 12:39:00

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:

13000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
57.00	MCW 62%w, 38%m	0.280

Total Length: 57.00 ft

Total Volume: 0.280 bbf

Num Fluid Samples: 0

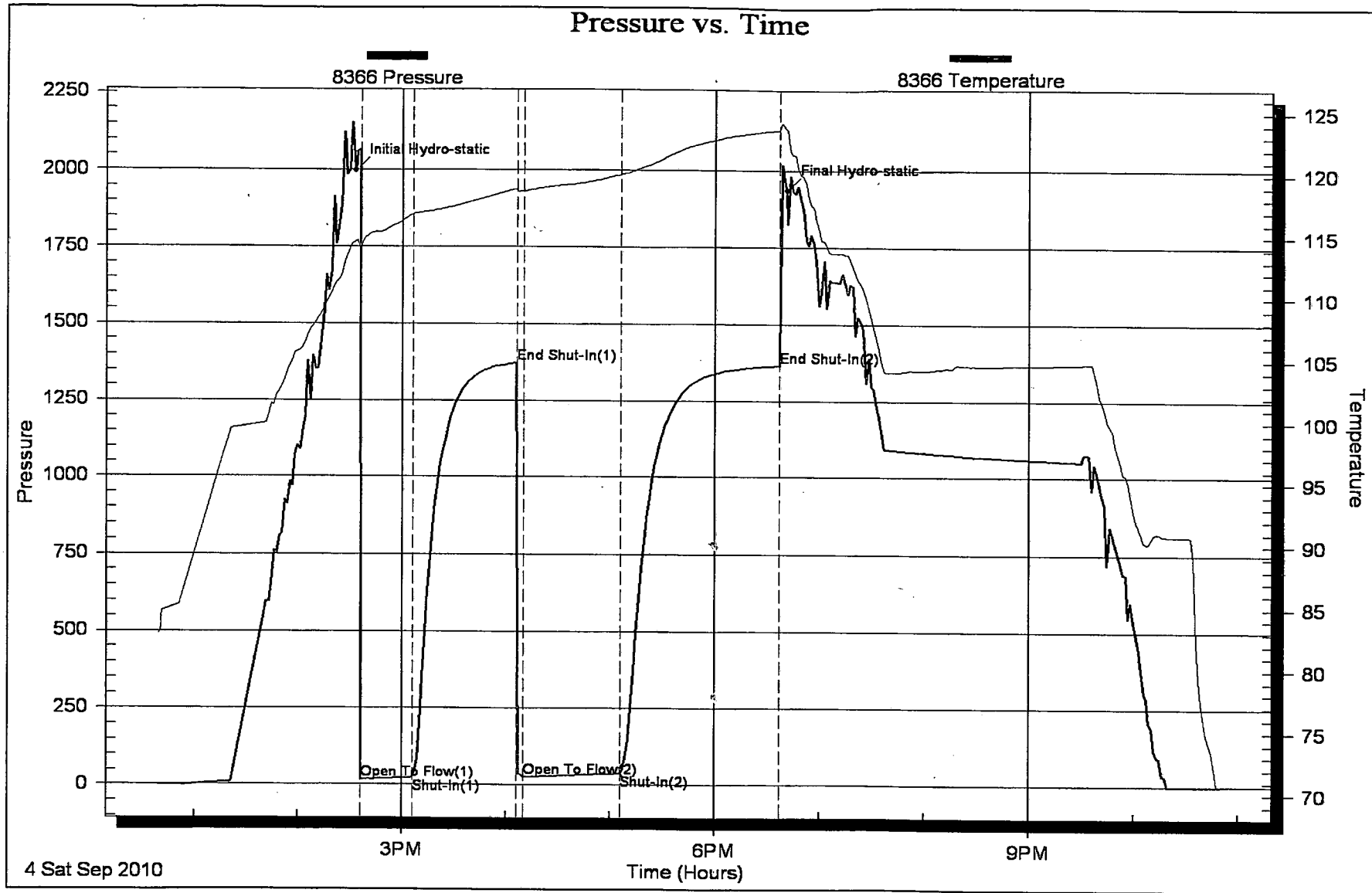
Num Gas Bombs: 0

Serial #:

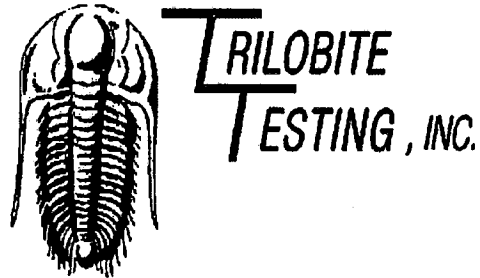
Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

26/5s/31w Rawlins KS

Withers #1-26

Start Date: 2010.09.02 @ 20:23:00

End Date: 2010.09.03 @ 05:18:30

Job Ticket #: 38393 DST #: 1

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

Withers #1-26
26/5s/31w Rawlins KS
Job Ticket: 38393 DST#: 1
Test Start: 2010.09.02 @ 20:23:00

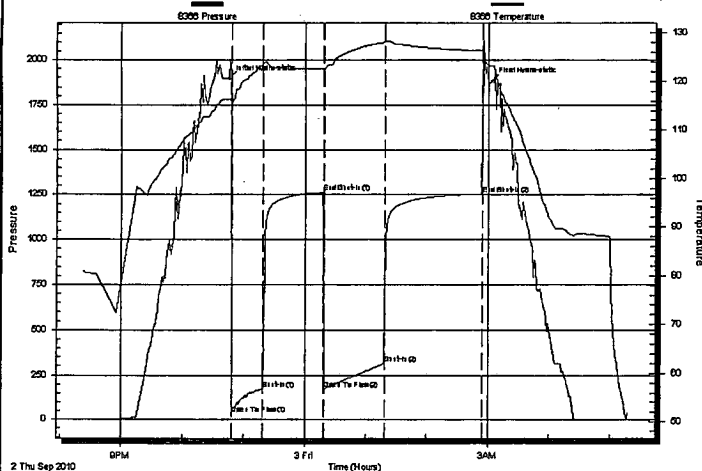
GENERAL INFORMATION:

Formation: **Toronto - Lans. "A &**
Deviated: **No Whipstock:** ft (KB) Test Type: **Conventional Bottom Hole**
Time Tool Opened: **22:48:30** Tester: **James Winder**
Time Test Ended: **05:18:30** Unit No: **46**
Interval: **3929.00 ft (KB) To 4015.00 ft (KB) (TVD)** Reference Elevations: 2945.00 ft (KB)
Total Depth: **4015.00 ft (KB) (TVD)** 2940.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: 5.00 ft

Serial #: 8366 **Inside**
Press@RunDepth: 313.12 psig @ 3930.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.02 End Date: 2010.09.03 Last Calib.: 2010.09.03
Start Time: 20:23:05 End Time: 05:18:30 Time On Btm: 2010.09.02 @ 22:45:30
Time Off Btm: 2010.09.03 @ 03:03:00

TEST COMMENT: IF: Blow built to BOB in 17 min.
IS: Bled off, No blow back
FF: Blow built to BOB in 21 1/2 min.
FSI: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

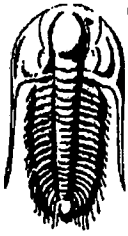
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.98	116.31	Initial Hydro-static
3	37.21	115.35	Open To Flow (1)
34	172.98	123.57	Shut-In(1)
93	1262.25	122.58	End Shut-In(1)
94	172.97	122.23	Open To Flow (2)
153	313.12	128.00	Shut-In(2)
249	1255.10	126.39	End Shut-In(2)
258	1878.42	123.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 80%w, 20%m	1.75
405.00	WCM 74%m, 26%w	5.68
0.00	Oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38393

DST#: 1

ATTN: Rocky Milford

Test Start: 2010.09.02 @ 20:23:00

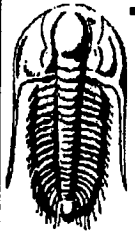
Tool Information

Drill Pipe:	Length: 3756.00 ft	Diameter: 3.80 inches	Volume: 52.69 bbl	Tool Weight:	3500.00 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	56000.00 lb
			Total Volume: 53.57 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3929.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	86.00 ft				
Tool Length:	114.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3906.00	
Hydraulic tool	5.00			3911.00	
Jars	5.00			3916.00	
Safety Joint	3.00			3919.00	
Packer	5.00			3924.00	28.00 Bottom Of Top Packer
Packer	5.00			3929.00	
Stubb	1.00			3930.00	
Recorder	0.00	8366	Inside	3930.00	
Recorder	0.00	8320	Inside	3930.00	
Perforations	16.00			3946.00	
Blank Spacing	64.00			4010.00	
Perforations	2.00			4012.00	
Bullnose	3.00			4015.00	86.00 Bottom Packers & Anchor

Total Tool Length: 114.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

Withers #1-26
26/5s/31w Rawlins KS
Job Ticket: 38393 **DST#: 1**
Test Start: 2010.09.02 @ 20:23:00

Mud and Cushion Information

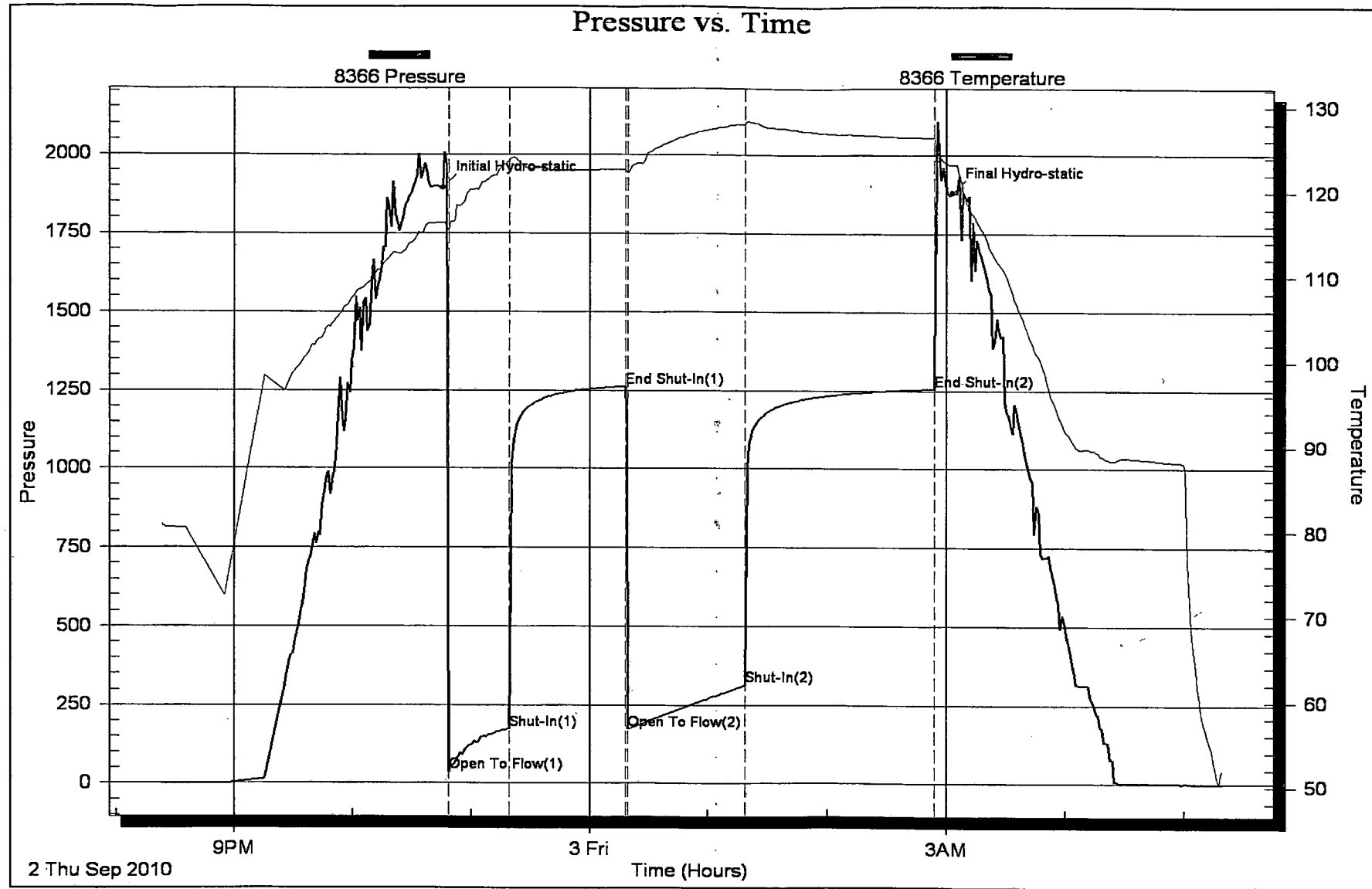
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 22000 ppm	
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

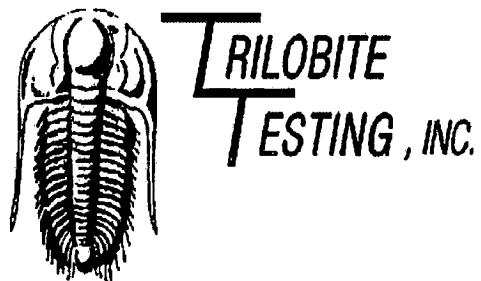
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MCW 80%w , 20%m	1.745
405.00	WCM 74%m, 26%w	5.681
0.00	Oil spots in tool	0.000

Total Length: 645.00 ft Total Volume: 7.426 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

26/5s/31w Rawlins KS

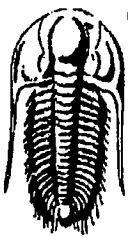
Withers #1-26

Start Date: 2010.09.03 @ 15:28:00

End Date: 2010.09.03 @ 22:02:30

Job Ticket #: 38394 DST #: 2

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Withers #1-26

26/5s/31w Rawlins KS

Job Ticket: 38394

DST#: 2

Test Start: 2010.09.03 @ 15:28:00

GENERAL INFORMATION:

Formation: **Lans. "E - F"**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 17:45:30

Time Test Ended: 22:02:30

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Interval: **4034.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Total Depth: **4060.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2945.00 ft (KB)**

2940.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8366

Inside

Press@RunDepth: **22.62 psig @ 4035.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.09.03**

End Date: **2010.09.03**

Last Calib.: **2010.09.03**

Start Time: **15:28:05**

End Time: **22:02:29**

Time On Btm: **2010.09.03 @ 17:43:30**

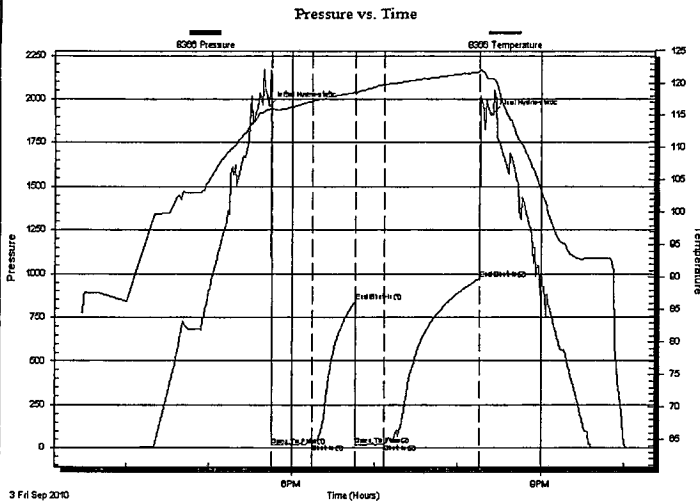
Time Off Btm: **2010.09.03 @ 20:24:30**

TEST COMMENT: IF: Weak surface blow for 8 min., Intermittent blow 8 - 21 min., dead @ 21 min.

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

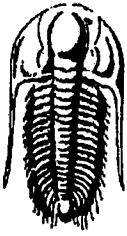
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.17	115.87	Initial Hydro-static
2	16.00	115.85	Open To Flow (1)
31	23.21	117.17	Shut-In(1)
62	839.41	118.53	End Shut-In(1)
63	19.56	118.28	Open To Flow (2)
83	22.62	119.75	Shut-In(2)
152	970.75	121.68	End Shut-In(2)
161	1913.64	120.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.05
0.00	Oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38394

DST#: 2

ATTN: Rocky Milford

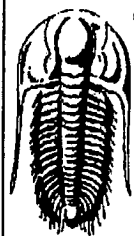
Test Start: 2010.09.03 @ 15:28:00

Tool Information

Drill Pipe:	Length: 3855.00 ft	Diameter: 3.80 inches	Volume: 54.08 bbl	Tool Weight: 1500.00 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4034.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4019.00	
Hydraulic tool	5.00			4024.00	
Packer	5.00			4029.00	20.00 Bottom Of Top Packer
Packer	5.00			4034.00	
Stubb	1.00			4035.00	
Recorder	0.00	8366	Inside	4035.00	
Recorder	0.00	8320	Inside	4035.00	
Perforations	22.00			4057.00	
Bullnose	3.00			4060.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38394

DST#: 2

ATTN: Rocky Milford

Test Start: 2010.09.03 @ 15:28:00

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:	75.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.99 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

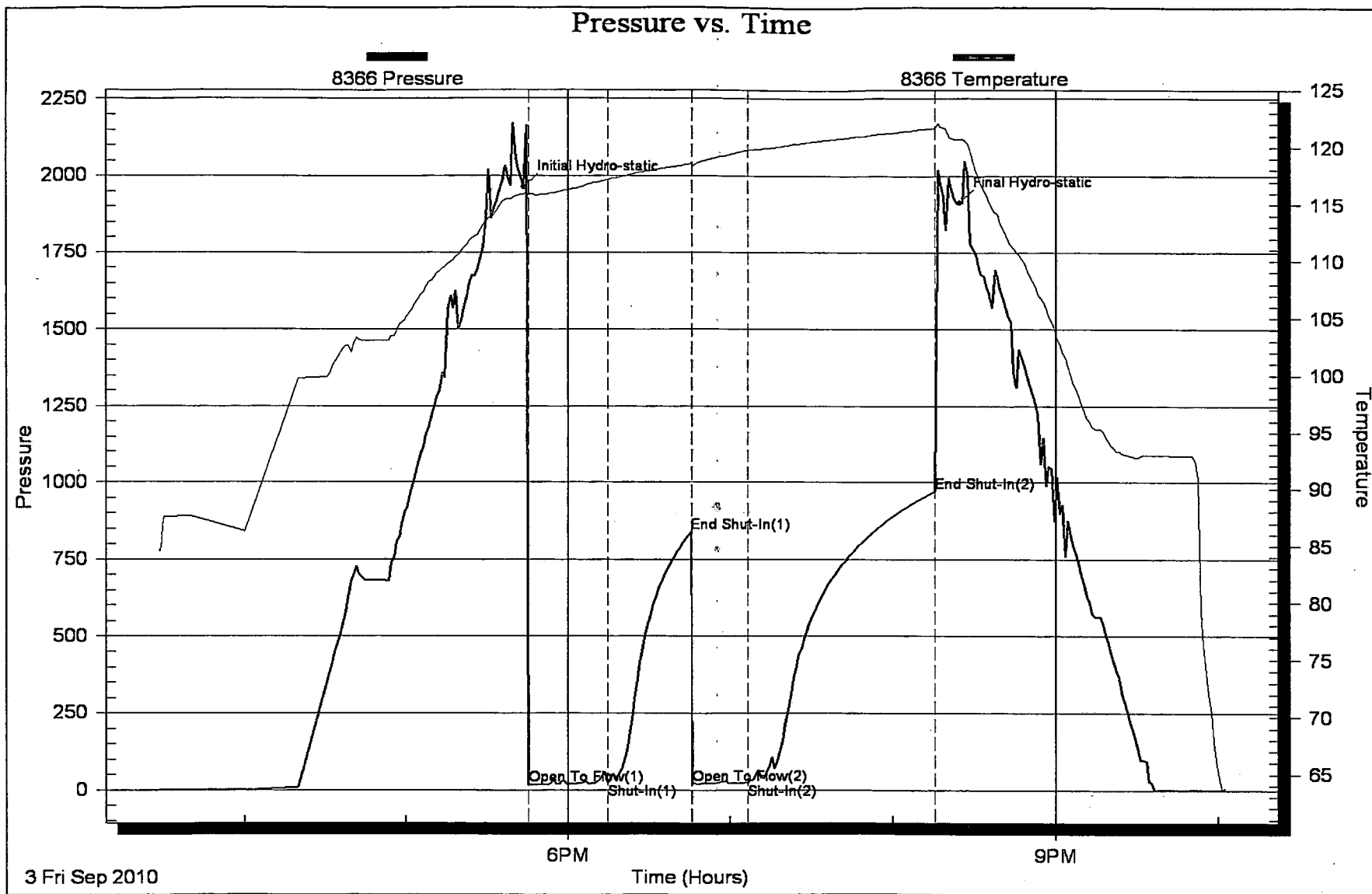
Length ft	Description	Volume bbl
10.00	Mud 100%	0.049
0.00	Oil spots in tool	0.000

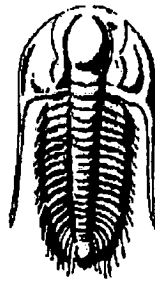
Total Length: 10.00 ft Total Volume: 0.049 bbl

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 Co., Inc.**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

26/5s/31w Rawlins KS

Withers #1-26

Start Date: 2010.09.04 @ 12:39:00

End Date: 2010.09.04 @ 22:49:00

Job Ticket #: 38395 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co., Inc.

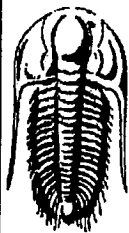
Withers #1-26

26/5s/31w Rawlins KS

DST # 3

Lans. "J-K"

2010.09.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Withers #1-26

26/5s/31w Rawlins KS

Job Ticket: 38395

DST#: 3

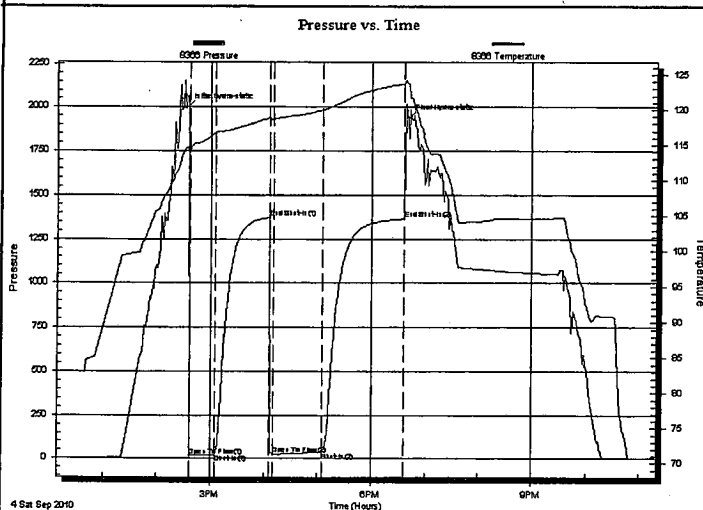
Test Start: 2010.09.04 @ 12:39:00

GENERAL INFORMATION:

Formation: **Lans. "J - K"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 14:36:00
 Time Test Ended: 22:49:00
 Interval: **4110.00 ft (KB) To 4185.00 ft (KB) (TVD)**
 Total Depth: **4185.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **James Winder**
 Unit No: **46**
 Reference Elevations: **2945.00 ft (KB)**
2940.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
 Press@RunDepth: **36.75 psig @ 4111.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.09.04** End Date: **2010.09.04** Last Calib.: **2010.09.04**
 Start Time: **12:39:05** End Time: **22:49:00** Time On Btm: **2010.09.04 @ 14:33:00**
 Time Off Btm: **2010.09.04 @ 18:41:00**

TEST COMMENT: IF: Blow built to 1"
 IS: Bled off, No blow back
 FF: Blow started @ 13 min., Intermittent blow till shut in
 FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.81	114.63	Initial Hydro-static
3	15.51	114.05	Open To Flow (1)
33	23.00	116.81	Shut-In(1)
93	1371.77	118.85	End Shut-In(1)
97	25.35	118.67	Open To Flow (2)
153	36.75	120.01	Shut-In(2)
244	1363.65	123.64	End Shut-In(2)
248	1936.16	123.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
57.00	MCW 62%w, 38%m	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38395

DST#: 3

ATTN: Rocky Milford

Test Start: 2010.09.04 @ 12:39:00

Tool Information

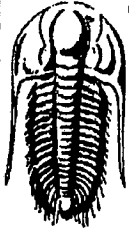
Drill Pipe:	Length: 3919.00 ft	Diameter: 3.80 inches	Volume: 54.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 55.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4110.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4095.00	
Hydraulic tool	5.00			4100.00	
Packer	5.00			4105.00	20.00 Bottom Of Top Packer
Packer	5.00			4110.00	
Stubb	1.00			4111.00	
Recorder	0.00	8366	Inside	4111.00	
Recorder	0.00	8320	Inside	4111.00	
Perforations	5.00			4116.00	
Blank Spacing	64.00			4180.00	
Perforations	2.00			4182.00	
Bullnose	3.00			4185.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Withers #1-26

250 N. Water Suite 300
Wichita, KS 67202

26/5s/31w Rawlins KS

Job Ticket: 38395

DST#: 3

ATTN: Rocky Milford

Test Start: 2010.09.04 @ 12:39:00

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:

13000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
57.00	MCW 62%w, 38%m	0.280

Total Length: 57.00 ft

Total Volume: 0.280 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

