

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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

8/25/10

OPERATOR: License # 30606
Name: Murfin Drilling Company, Inc. **AUG 25 2010**
Address 1: 250 N. Water, Suite 300 **CONFIDENTIAL**
Address 2:
City: Wichita State: KS Zip: 67202 +
Contact Person: Leon Rodak
Phone: (316) 267-3241
CONTRACTOR: License # 30606 **RECEIVED**
Name: Murfin Drilling Company, Inc. **AUG 25 2010**
Wellsite Geologist: Paul Gunzelman
Purchaser: None **KCC WICHITA**

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 #:

07/01/10 07/07/10 07/08/10
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 039-21118-0000
Spot Description:
NE_NE_NE Sec. 23 Twp. 2 S. R. 27 East West
330 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: Decatur
Lease Name: Long 'P' Well #: 1-23
Field Name: Unknown
Producing Formation: None
Elevation: Ground: 2683 Kelly Bushing: 2688
Total Depth: 3820 Plug Back Total Depth: None
Amount of Surface Pipe Set and Cemented at: 303 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: 08/24/10

KCC Office Use ONLY

- Letter of Confidentiality Received Date: 8/25/10 - 8/25/12
- Confidential Release Date:
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by:  Date: 8/27/10

Operator Name: Murfin Drilling Company, Inc. Lease Name: Long 'P' Well #: 1-23
 Sec. 23 Twp. 2 S. R. 27 East West County: Decatur

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: right;"> KCC AUG 25 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#	303	Common	190	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 AUG 25 2010 KCC WICHITA	

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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: _____ _____
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MDCI Long 'P' #1-23 330 FNL 330 FEL Sec. 23-T2S-R27W 2688' KB							Dark Horse Long Ranch #6-14 990 FSL 330 FEL Sec. 14-T2S-R27W 2673' KB	
Formation	Sample Top	Datum	Ref	Log Top	Datum	Ref	Log tops	Datum
Anhydrite	2205	+483	+4	2205	+483	-4	2194	+479
B/Anhydrite	2236	+452	+1	2236	+452	+1	2222	+451
Topeka	3350	-662	-1	3352	-664	-3	3334	-661
Heebner	3518	-830	-1	3518	-830	-1	3502	-829
Toronto	3550	-862	-3	3550	-862	-3	3532	-859
Lansing	3564	-876	-1	3562	-874	+1	3548	-875
Stark Shale	3712	-1024	-2	3711	-1023	-1	3695	-1022
BKC	3760	-1072	-1	3760	-1072	-1	3744	-1071
Marmaton				3774	-1086	-1	3758	-1085
RTD	3820	-1132					3846	
LTD				3820	-1132		3847	

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KCC WICHITA



August 25, 2010

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

Re: **Confidential Filing:** ACO-1
API #15-039-21118-0000
Long P 1-23

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".

Elisabeth Heibel

KCC
AUG 25 2010
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RECEIVED
AUG 25 2010
KCC WICHITA



PO BOX 31 Russell, KS 67665

INVOICE

Sur. Acct.

Invoice Number: 123417

Invoice Date: Jul 1, 2010

Page: 1

PROD COPY

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

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

*operator pay
m o c m*

KCC
AUG 25 2010
CONFIDENTIAL

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Long P #1-33	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 1, 2010	7/31/10

Quantity	Item	Description	Unit Price	Amount
190.00	MAT	Class A Common	15.45	2,935.50
4.00	MAT	Gel	20.80	83.20
7.00	MAT	Chloride	58.20	407.40
201.00	SER	Handling	2.40	482.40
70.00	SER	Mileage 201 sx @ .10 per sk per mi	20.10	1,407.00
1.00	SER	Surface	1,018.00	1,018.00
70.00	SER	Pump truck Mileage	7.00	490.00
1.00	EQP	8.5/8 Plug	53.00	53.00

Account	Unit	W	Amount	Description
03600008	20	3696	7130.47	Cement S-Co
			(2406.78)	

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

\$ 2406.78

ONLY IF PAID ON OR BEFORE
Jul 26, 2010

Subtotal	6,876.50
Sales Tax	253.97
Total Invoice Amount	7,130.47
Payment/Credit Applied	
TOTAL	7,130.47

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RECEIVED AUG 2 KCC WICHITA

W
2406.78

4723.69



PO BOX 31 Russell, KS 67665

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

Self acct.

INVOICE

PROD COPY

Invoice Number: 123480

Invoice Date: Jul 8, 2010

Page: 1

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

operator pay m OC

KCC
 AUG 25 2010

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Long P #1-23	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jul 8, 2010	8/7/10

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
230.00	SER	Handling	2.40	552.00
70.00	SER	Mileage 230 sx @ .10 per sk per mi	23.00	1,610.00
1.00	SER	Plug to Abandon	1,185.00	1,185.00
70.00	SER	Pump Truck Mileage	7.00	490.00
1.00	EQP	8.5/8 Plug	40.00	40.00

Account	Well Rig	W L	No.	Amount	Description
03600 008	8N		3696	7429.77 (2423.51)	PTA

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

\$ 2423.51

ONLY IF PAID ON OR BEFORE
 Aug 2, 2010

Subtotal	6,924.30
Sales Tax	505.47
Total Invoice Amount	7,429.77
Payment/Credit Applied	
TOTAL	7,429.77

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 AUG 25 2010
 KCC WICHITA

WV
 2423.51
 500626

ALLIED CEMENTING CO., LLC. 038941

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

SERVICE POINT:
Wichita, KS

DATE <u>7-8-10</u>	SEC. <u>23</u>	TWP. <u>25</u>	RANGE <u>27W</u>	CALLED OUT	ON LOCATION <u>12:30am</u>	JOB START <u>6:30am</u>	JOB FINISH <u>7:00am</u>
LEASE <u>LONG</u>	WELL # <u>1-23</u>	LOCATION <u>Oberlin 12e-30 445</u>			COUNTY <u>DECATUR</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murphy #8 OWNER _____

TYPE OF JOB PTA

HOLE SIZE 77/8 T.D. 3820' CEMENT AMOUNT ORDERED 220 SKS 60/40

CASING SIZE _____ DEPTH _____ 40 SKS 14" CLOSAL

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 1480'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Fuzz

431 HELPER LABOR

BULK TRUCK _____

399 DRIVER WILLBUR

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

25 SKS @ 2210'
100 SKS @ 1480'
40 SKS @ 350'
10 SKS @ 40' w/plus
30 SKS Ptl
15 SKS mH
Job complete 7:00am
Thanks Fuzz
Circle

CHARGE TO: Murphy Dals

STREET _____

CITY _____ STATE _____ ZIP _____

COMMON	<u>132</u>	@	<u>15.45</u>	<u>2039.40</u>
POZMIX	<u>88</u>	@	<u>8.00</u>	<u>704.00</u>
GEL	<u>8</u>	@	<u>20.00</u>	<u>166.00</u>
CHLORIDE		@		
ASC		@		
<u>Closal</u>	<u>55#</u>	@	<u>2.50</u>	<u>137.50</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>230</u>	@	<u>2.40</u>	<u>552.00</u>
MILEAGE	<u>104.5 km</u>	@		<u>1610.00</u>
TOTAL				<u>5209.60</u>

SERVICE

DEPTH OF JOB	<u>2210'</u>		
PUMP TRUCK CHARGE			<u>1185.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>70</u>	@	<u>7.00</u>
MANIFOLD		@	
		@	
TOTAL			<u>1675.00</u>

PLUG & FLOAT EQUIPMENT

<u>1-8 1/2 plus</u>	@	<u>40.00</u>
	@	
	@	
	@	
TOTAL		<u>40.00</u>

SALES TAX (If Any) _____

TOTAL CHARGES _____

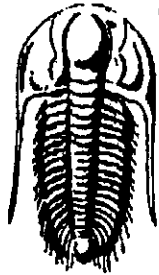
DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Rodney Farr

SIGNATURE Rodney Farr

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 AUG 25 2010
 KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Paul Gunzelman

23 2s 27w Decatur KS

Long P #1-23

Start Date: 2010.07.05 @ 02:45:00

End Date: 2010.07.05 @ 11:05:00

Job Ticket #: 38331 DST #: 1

**KCC
AUG 25 2010
CONFIDENTIAL**

**RECEIVED
AUG 25 2010
KCC WICHITA**

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

Murfin Drilling Co., Inc.

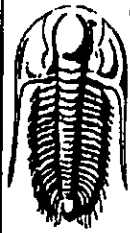
Long P #1-23

23 2s 27w Decatur KS

DST # 1

Toronto - LKC "A"

2010.07.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Long P #1-23

23 2s 27w Decatur KS

Job Ticket: 38331

DST#: 1

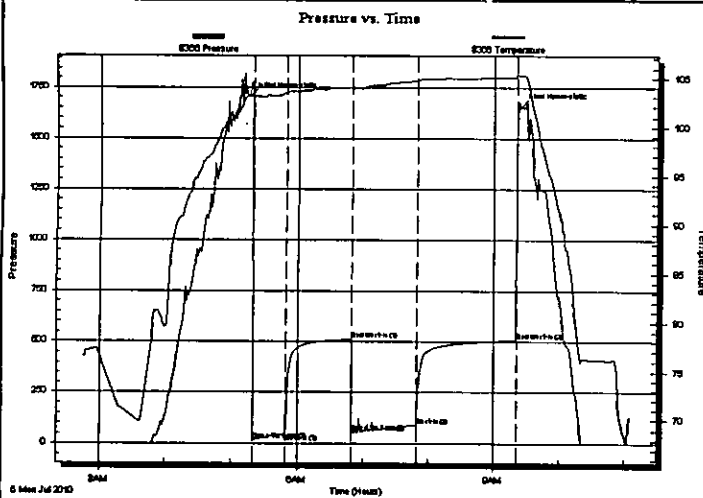
Test Start: 2010.07.05 @ 02:45:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 05:19:00
 Time Test Ended: 11:05:00
 Interval: **3524.00 ft (KB) To 3580.00 ft (KB) (TVD)**
 Total Depth: **3580.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **James Winder**
 Unit No: **46**
 Reference Elevations: **2688.00 ft (KB)**
2683.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8366 Inside
 Press@RunDepth: **88.65 psig @ 3525.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.07.05** End Date: **2010.07.05** Last Calib.: **2010.07.05**
 Start Time: **02:45:05** End Time: **11:04:59** Time On Btm: **2010.07.05 @ 05:16:00**
 Time Off Btm: **2010.07.05 @ 09:24:30**

TEST COMMENT: IF: Blow built to 2 1/2"
 IS: Bled off, No blow back
 FF: Blow started @ 11 min., built to 3 1/2"
 FS: Bled off, Blow back built to 1/4", dead @ 24 min.



PRESSURE SUMMARY

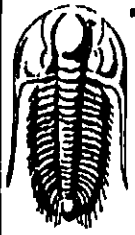
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.68	103.12	Initial Hydro-static
3	15.86	102.46	Open To Flow (1)
33	46.47	103.45	Shut-In(1)
93	511.79	104.00	End Shut-In(1)
94	51.42	103.83	Open To Flow (2)
153	88.65	104.71	Shut-In(2)
245	507.01	105.12	End Shut-In(2)
249	1652.05	105.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	Mud w/trace of oil 100%m	0.52
60.00	MCW w/trace oil 60%w, 40%m	0.30
0.00	RW = .251 ohms @ 69.3 deg F	0.00
0.00	Chlorides = 28,000 ppm	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.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38331

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2010.07.05 @ 02:45:00

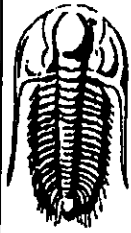
Tool Information

Drill Pipe:	Length: 3327.00 ft	Diameter: 3.80 inches	Volume: 46.67 bbl	Tool Weight:	3000.00 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:	50000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3524.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	83.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3502.00	
HYD S.I. Tool	5.00			3507.00	
Jars	5.00			3512.00	
Safety Joint	2.00			3514.00	
Packer	5.00			3519.00	27.00 Bottom Of Top Packer
Packer	5.00			3524.00	
Stubb	1.00			3525.00	
Recorder	0.00	8366	Inside	3525.00	
Recorder	0.00	8320	Inside	3525.00	
Perforations	15.00			3540.00	
Blank Spacing	33.00			3573.00	
Perforations	4.00			3577.00	
Bullnose	3.00			3580.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38331

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2010.07.05 @ 02:45:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 6.77 in³
Resistivity: ohm.m
Salinity: 800.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 28000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	Mud w /trace of oil 100%m	0.516
60.00	MCW w /trace oil 60%w , 40%m	0.295
0.00	RW = .251 ohms @ 69.3 deg F	0.000
0.00	Chlorides = 28,000 ppm	0.000

Total Length: 165.00 ft Total Volume: 0.811 bbl

Num Fluid Samples: 0

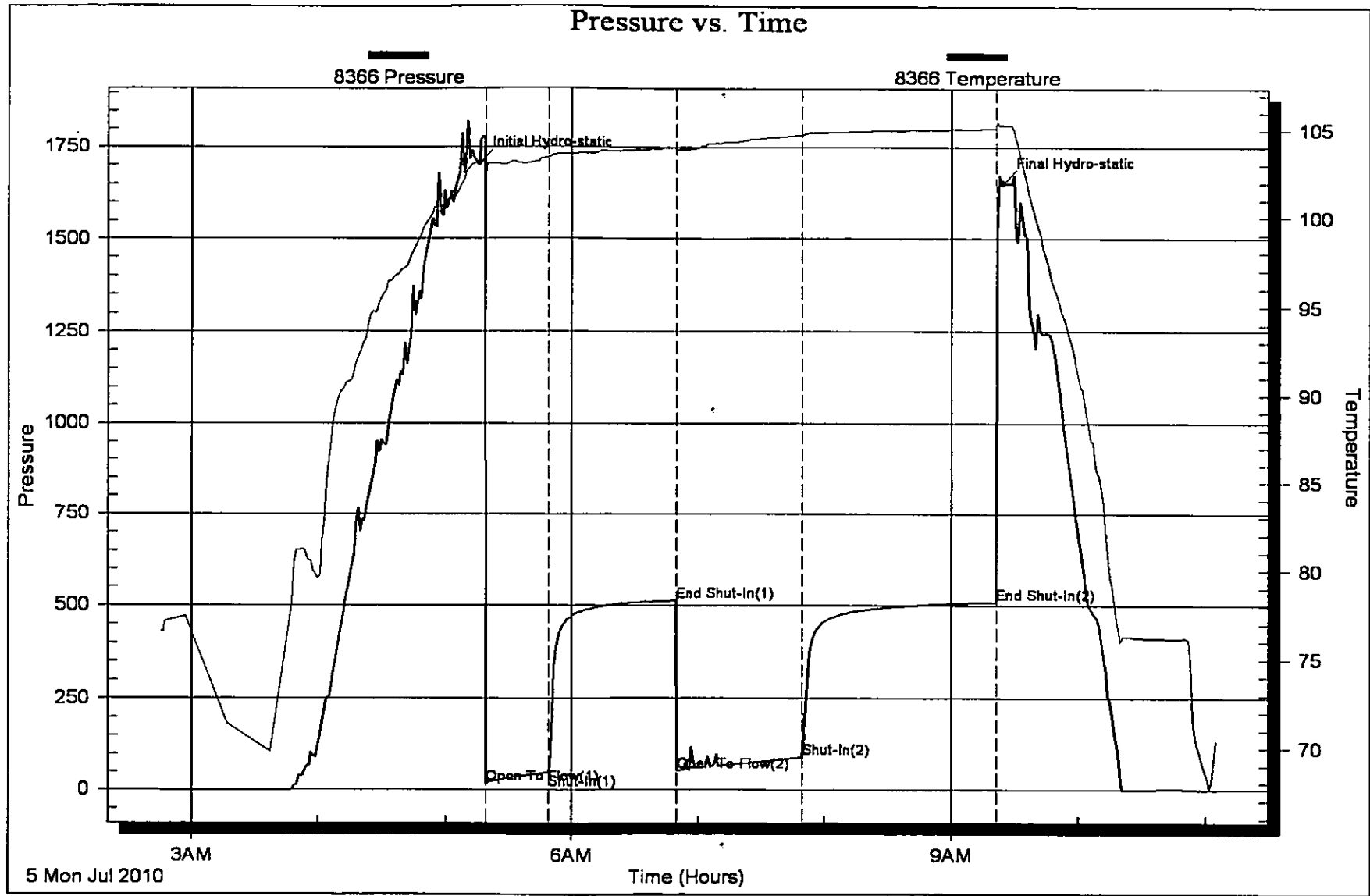
Num Gas Bombs: 0

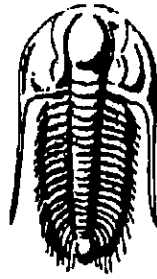
Serial#:

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: Paul Gunzelman

23 2s 27w Decatur KS

Long P #1-23

Start Date: 2010.07.05 @ 17:40:00

End Date: 2010.07.05 @ 23:00:30

Job Ticket #: 38832 DST #: 2

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

Murfin Drilling Co., Inc.

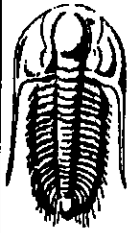
Long P #1-23

23 2s 27w Decatur KS

DST # 2

LKC "Pollnow"

2010.07.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38832

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2010.07.05 @ 17:40:00

GENERAL INFORMATION:

Formation: **LKC "Pollnow"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:22:00

Time Test Ended: 23:00:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: 3580.00 ft (KB) To 3596.00 ft (KB) (TVD)

Total Depth: 3596.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2688.00 ft (KB)

2683.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 69.76 psig @ 3581.00 ft (KB)

Start Date: 2010.07.05 End Date: 2010.07.05

Start Time: 17:40:05 End Time: 23:00:29

Capacity: 8000.00 psig

Last Calib.: 2010.07.05

Time On Btm: 2010.07.05 @ 19:17:30

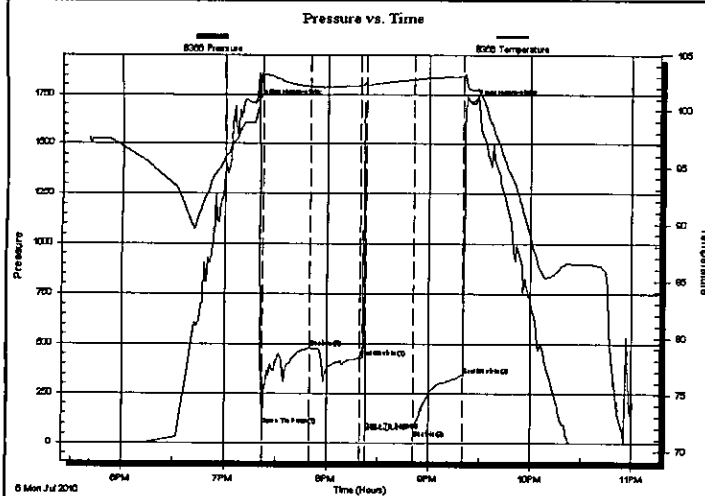
Time Off Btm: 2010.07.05 @ 21:25:00

TEST COMMENT: IF: 2" Surge blow, bled off, No blow

IS: No blow back

FF: No blow, Flushed tool, No blow

FSI: No blow back



PRESSURE SUMMARY

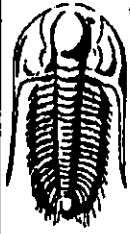
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.66	98.90	Initial Hydro-static
5	87.49	103.13	Open To Flow (1)
32	478.27	102.12	Shut-In(1)
62	429.29	102.21	End Shut-In(1)
65	66.25	102.21	Open To Flow (2)
93	69.76	102.75	Shut-In(2)
123	346.22	103.07	End Shut-In(2)
128	1706.57	101.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud (very thick) 100%	0.30

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: Paul Gunzelman

Long P #1-23
23 2s 27w Decatur KS
Job Ticket: 38832 DST#: 2
Test Start: 2010.07.05 @ 17:40:00

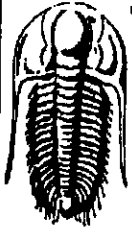
Tool Information

Drill Pipe:	Length: 3390.00 ft	Diameter: 3.80 inches	Volume: 47.55 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: 30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 48.43 bbl		Tool Chased 5.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3580.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Slid 6' before tool opened & chased another 5' to bottom @ open
Hole lost 5' mud - 2" surge blow

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3563.00	
HYD S.I. Tool	5.00			3568.00	
Safety Joint	2.00			3570.00	
Packer	5.00			3575.00	22.00 Bottom Of Top Packer
Packer	5.00			3580.00	
Stubb	1.00			3581.00	
Recorder	0.00	8366	Inside	3581.00	
Recorder	0.00	8320	Inside	3581.00	
Perforations	12.00			3593.00	
Bullnose	3.00			3596.00	16.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38832

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2010.07.05 @ 17:40:00

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: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	Mud (very thick) 100%	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbf

Num Fluid Samples: 0

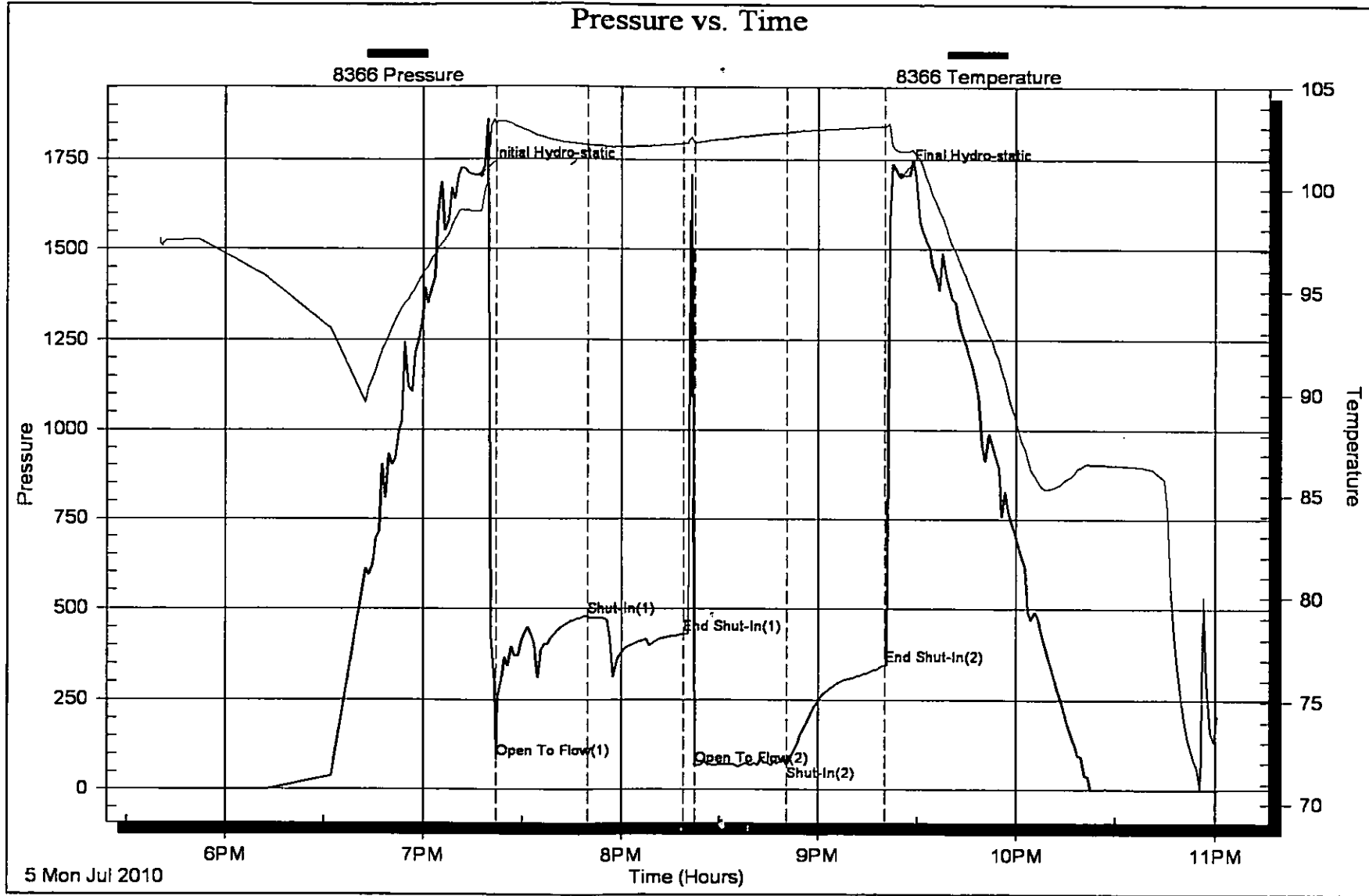
Num Gas Bombs: 0

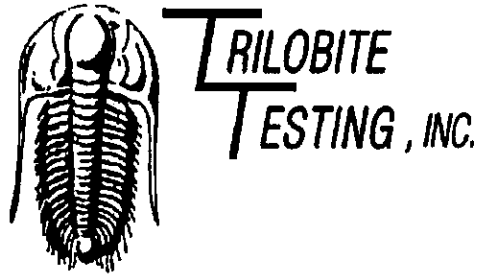
Serial #:

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: Paul Gunzelman

23 2s 27w Decatur KS

Long P #1-23

Start Date: 2010.07.06 @ 06:12:00

End Date: 2010.07.06 @ 12:57:00

Job Ticket #: 38333 DST #: 3

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

Murfin Drilling Co., Inc.

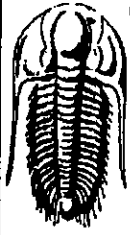
Long P #1-23

23 2s 27w Decatur KS

DST # 3

LKC "Pollnow - D"

2010.07.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38333

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2010.07.06 @ 06:12:00

GENERAL INFORMATION:

Formation: **LKC "Pollnow - D"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 08:15:00
 Time Test Ended: 12:57:00

Test Type: **Conventional Bottom Hole**
 Tester: **James Winder**
 Unit No: **46**

Interval: **3578.00 ft (KB) To 3622.00 ft (KB) (TVD)**
 Total Depth: **3622.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2688.00 ft (KB)**
2683.00 ft (CF)
 KB to GR/CF: **5.00 ft**

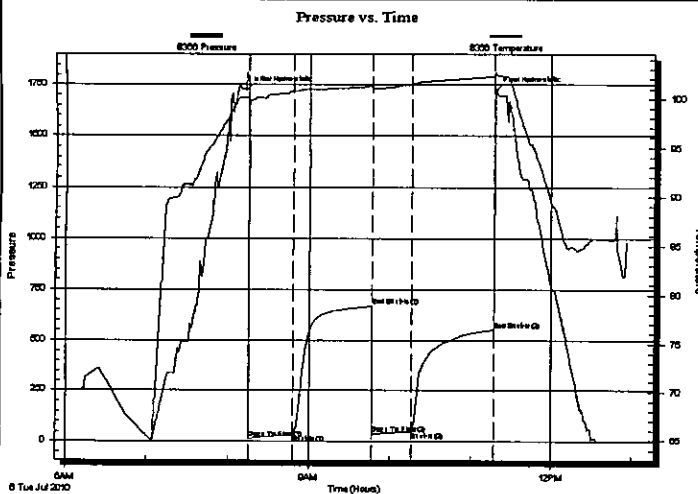
Serial #: 8366

Inside

Press@RunDepth: **50.91 psig @ 3579.00 ft (KB)**
 Start Date: **2010.07.06** End Date: **2010.07.06**
 Start Time: **06:12:05** End Time: **12:56:59**

Capacity: **8000.00 psig**
 Last Calib.: **2010.07.06**
 Time On Btm: **2010.07.06 @ 08:13:00**
 Time Off Btm: **2010.07.06 @ 11:18:30**

TEST COMMENT: IF: Blow built to 2 1/4"
 IS: Bled off, No blow back
 FF: Blow started @ 19 min., built to 1/4"
 FSI: Bled off, No blow back



PRESSURE SUMMARY

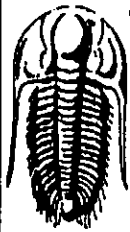
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.15	100.04	Initial Hydro-static
2	14.78	99.11	Open To Flow (1)
35	35.06	100.70	Shut-In(1)
93	668.85	101.23	End Shut-In(1)
94	38.20	101.01	Open To Flow (2)
123	50.91	101.45	Shut-In(2)
184	552.45	102.23	End Shut-In(2)
186	1723.09	102.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM 92% m, 5% o, 3% g	0.30
10.00	OCM 85% m 13% o 2% g	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38333

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2010.07.06 @ 06:12:00

Tool Information

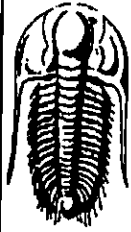
Drill Pipe:	Length: 3389.00 ft	Diameter: 3.80 inches	Volume: 47.54 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 48.42 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3578.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3561.00	
HYD S.I. Tool	5.00			3566.00	
Safety Joint	2.00			3568.00	
Packer	5.00			3573.00	22.00 Bottom Of Top Packer
Packer	5.00			3578.00	
Stubb	1.00			3579.00	
Recorder	0.00	8366	inside	3579.00	
Recorder	0.00	8320	inside	3579.00	
Perforations	5.00			3584.00	
Blank Spacing	33.00			3617.00	
Perforations	2.00			3619.00	
Bullnose	3.00			3622.00	44.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38333

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2010.07.06 @ 06:12:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 6.78 in³
Resistivity: ohm.m
Salinity: 1600.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

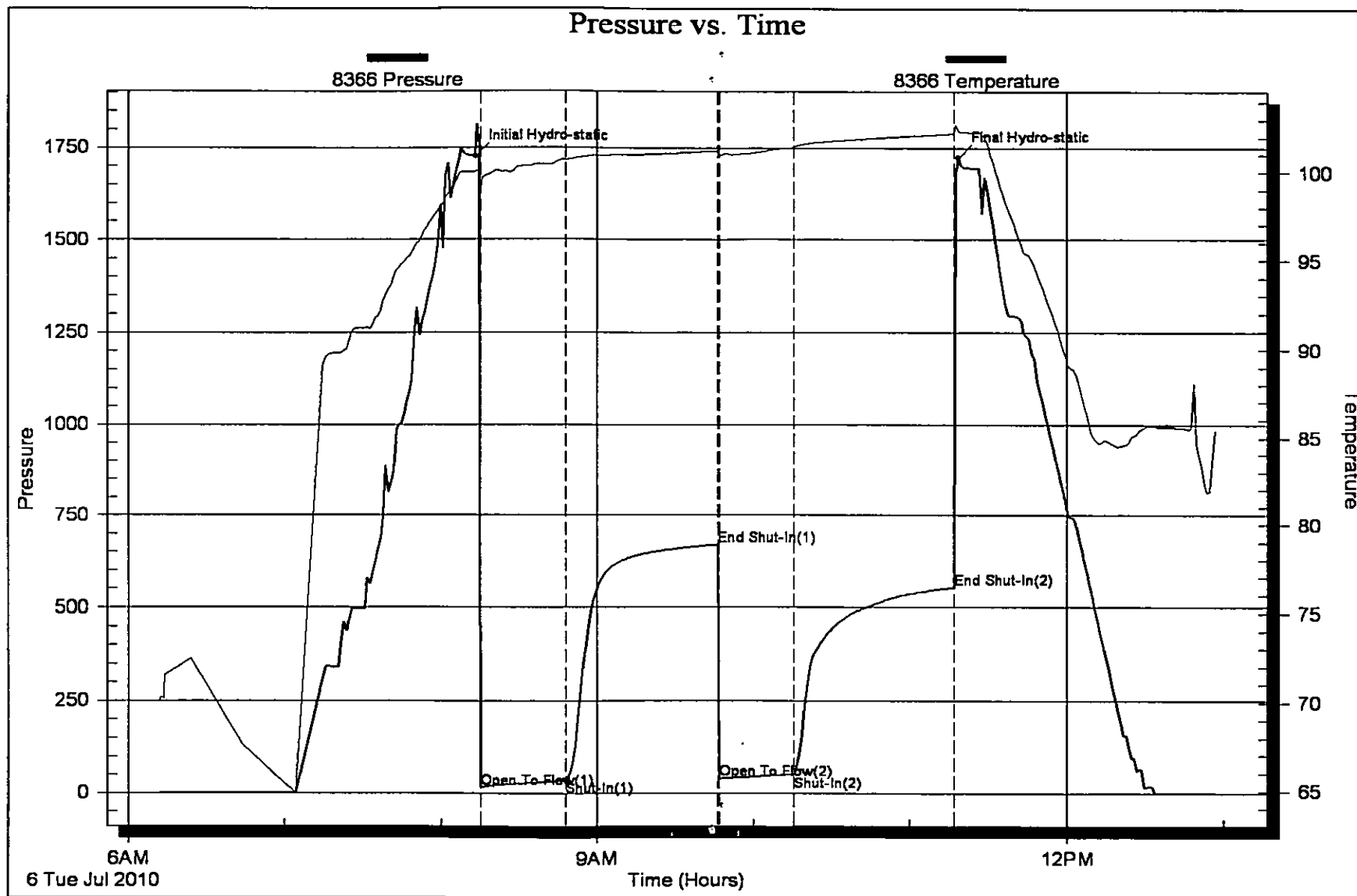
Length ft	Description	Volume bbl
60.00	SOCM 92% _m , 5% _o , 3% _g	0.295
10.00	OCM 85% _m 13% _o 2% _g	0.049

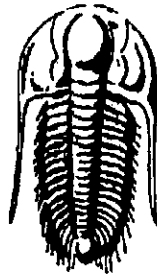
Total Length: 70.00 ft Total Volume: 0.344 bbl

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: Paul Gunzelman

23 2s 27w Decatur KS

Long P #1-23

Start Date: 2010.07.07 @ 02:15:00

End Date: 2010.07.07 @ 09:38:00

Job Ticket #: 38334 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

Long P #1-23

23 2s 27w Decatur KS

DST # 4

LKC "H - K"

2010.07.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38334

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2010.07.07 @ 02:15:00

GENERAL INFORMATION:

Formation: LKC "H - K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:49:30

Time Test Ended: 09:38:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: 3654.00 ft (KB) To 3743.00 ft (KB) (TVD)

Total Depth: 3743.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2688.00 ft (KB)

2683.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 52.52 psig @ 3655.00 ft (KB)

Start Date: 2010.07.07

End Date: 2010.07.07

Start Time: 02:15:05

End Time: 09:37:59

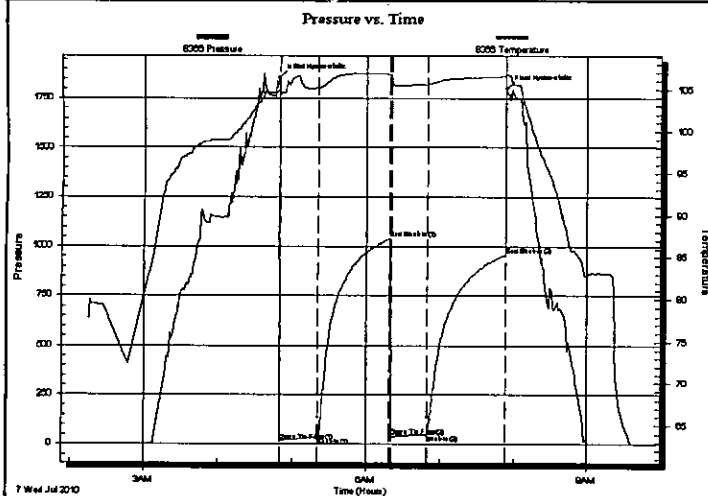
Capacity: 8000.00 psig

Last Calib.: 2010.07.07

Time On Btm: 2010.07.07 @ 04:48:30

Time Off Btm: 2010.07.07 @ 07:53:59

TEST COMMENT: IF: Blow built to 2 1/4"
IS: Bled off, No blow back
FF: No blow
FSI: No blow back



PRESSURE SUMMARY

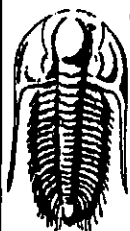
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.72	104.86	Initial Hydro-static
1	16.91	104.41	Open To Flow (1)
32	36.36	105.20	Shut-In(1)
91	1037.73	106.83	End Shut-In(1)
92	41.09	106.04	Open To Flow (2)
121	52.52	105.57	Shut-In(2)
185	957.48	106.52	End Shut-In(2)
186	1800.51	106.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 73%W, 27%M	0.30
15.00	MW 55%W 45%M	0.07
0.00	RW = .365 ohms @ 62.5 deg F	0.00
0.00	Chlorides = 21,000 ppm	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.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38334

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2010.07.07 @ 02:15:00

Tool Information

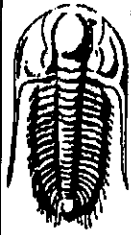
Drill Pipe:	Length: 3482.00 ft	Diameter: 3.80 inches	Volume: 48.84 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 56000.00 lb
		Total Volume: 49.72 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3654.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3637.00	
HYD S.I. Tool	5.00			3642.00	
Safety Joint	2.00			3644.00	
Packer	5.00			3649.00	22.00 Bottom Of Top Packer
Packer	5.00			3654.00	
Stubb	1.00			3655.00	
Recorder	0.00	8366	Inside	3655.00	
Recorder	0.00	8320	Inside	3655.00	
Perforations	10.00			3665.00	
Blank Spacing	65.00			3730.00	
Perforations	10.00			3740.00	
Bullnose	3.00			3743.00	89.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Long P #1-23

250 N. Water Suite 300
Wichita, KS 67202

23 2s 27w Decatur KS

Job Ticket: 38334

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2010.07.07 @ 02:15:00

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:

21000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCW 73%W, 27%M	0.295
15.00	MW 55%W 45%M	0.074
0.00	RW = .365 ohms @ 62.5 deg F	0.000
0.00	Chlorides = 21,000 ppm	0.000

Total Length: 75.00 ft

Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

