

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

RECEIVED ORIGINAL

AUG 31 2010

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM KCC WICHITA
WELL HISTORY - DESCRIPTION OF WELL & LEASE

8/30/12

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: Brad Rine
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 #: _____
07/21/10 08/02/10 08/03/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 069-20327-0000
Spot Description: _____
NE NE SW NW Sec. 19 Twp. 27 S. R. 27 East West
1350 Feet from North / South Line of Section
1060 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gray
Lease Name: Miller Well #: 1-19
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 2721 Kelly Bushing: 2732
Total Depth: 5190 Plug Back Total Depth: None
Amount of Surface Pipe Set and Cemented at: 490 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: 08/30/10

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 8/30/10 - 8/30/12
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NR Date: 9-9-10
PA

KCC

Operator Name: Murfin Drilling Company, Inc. Lease Name: Miller Well #: 1-19 AUG 30 2010
 Sec. 19 Twp. 27 S. R. 27 East West County: Gray **CONFIDENTIAL**

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 KCC AUG 30 2010 CONFIDENTIAL
---	--

RECEIVED
AUG 31 2010
KCC WICHITA

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#	490	Common	375	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

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 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 <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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
--	---	---

KCC
 AUG 30 2010
 CONFIDENTIAL

MDCI Miller #1-19 1350 FNL 1060 FWL Sec. 19-T27S-R27W 2732' KB							Midwestern Explor. Unruh #1-24 NW NW NW Sec. 24-T27S-R28W 2710' KB	
Formations	Sample Tops	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Krider	2710	+22	+14	2718	+14	+6	2702	+8
Root Shale	3488	-756	+26	3492	-760	+22	3492	-782
Topeka	3743	-1011	+27	3750	-1018	+20	3748	-1038
Heebner	4176	-1444	+21	4179	-1447	+18	4175	-1465
Lansing	4242	-1510	+15	4250	-1518	+12	4240	-1530
Stark	4611	-1879	+11	4613	-1881	+9	4600	-1890
Marmaton	4756	-2024	+20	4759	-2027	+17	4754	-2044
Pawnee	4842	-2110	+20	4838	-2106	+26	4842	-2132
Cherokee	4908	-2176	+27	4910	-2178	+24	4912	-2202
Base Pen Lime	5020	-2288	+27	5016	-2284	+31	5025	-2315
Mississippian				5032	-2300	+38	5048	-2338
RTD	5190						5200	
LTD		5194						

RECEIVED
 AUG 31 2010
 KCC WICHITA



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

acct. Liz
MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
FAX 620/431-0012

INVOICE

Invoice # 235724

Invoice Date: 08/09/2010 Terms: *operator pay* Page 1
moc

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

MILLER 1-19 / *pm*
24436
19-27-27
8-3-10

REC AUG 30 2010

Part Number	Description	Qty	Unit Price	Total
1131	60/40 POZ MIX	250.00	13.0000	3250.00
1118A	S-5 GEL/ BENTONITE (50#)	860.00	.2000	172.00
1107	FLO-SEAL (25#)	53.75	2.5000	134.38
4432	8 5/8" WOODEN PLUG	1.00	92.0000	92.00
Sublet Performed Description				Total
9999-100	CASH DISCOUNT			-1615.34
Description		Hours	Unit Price	Total
439	TON MILEAGE DELIVERY	1.00	886.87	886.87
463	P & A NEW WELL	1.00	1200.00	1200.00
463	EQUIPMENT MILEAGE (ONE WAY)	55.00	4.50	247.50

12

Parts: 3648.38 Freight: .00 Tax: 271.80 AR 4639.21
Labor: .00 Misc: .00 Total: 4639.21
Sublt: -1615.34 Supplies: .00 Change: .00

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 24436

LOCATION Oakley

FOREMAN Pat Heisler

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-3-10	5406	Miller 1-19	19	27N	27W	Gray
CUSTOMER Murfin Drilling Co.			TRUCK #			
MAILING ADDRESS 250 N Water Ste 300			DRIVER			
CITY Wichita			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 67202			TRUCK #			
JOB TYPE <u>Plug o/g</u>			DRIVER			
HOLE SIZE			TRUCK #			
HOLE DEPTH			DRIVER			
CASING SIZE & WEIGHT			TRUCK #			
CASING DEPTH			DRIVER			
DRILL PIPE			TRUCK #			
TUBING			DRIVER			
OTHER			TRUCK #			
SLURRY WEIGHT <u>15.4</u>			DRIVER			
SLURRY VOL			TRUCK #			
WATER gal/sk <u>6</u>			DRIVER			
CEMENT LEFT in CASING			TRUCK #			
DISPLACEMENT			DRIVER			
DISPLACEMENT PSI			TRUCK #			
MIX PSI			DRIVER			
RATE			TRUCK #			

REMARKS:

50sk @ 1770'
 80sk @ 900'
 50sk @ 540'
 20sk @ 60'
 30sk R.H.
 20sk M.H.

*Thank you
Pat & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405 N	1	PUMP CHARGE	1200.00	1200.00
5406	55 mile	MILEAGE	4.50	247.50
5407A	10.75	Tan mileage delivery 55 mile	1.50	886.87
1131	250 SKS	60/40 Pozmix	13.00	3250.00
1118A	160 FF	Bentonite Gel	1.20	172.00
1107	53.75 FF	Fla-seal	2.50	1343.75
4432	1	8 3/4 wooden plug	92.00	92.00
235724				
Subtotal				5982.75
Less			272.00	1615.75
			SALES TAX	271.80
			ESTIMATED TOTAL	4639.21

Ravin 3737

AUTHORIZATION

Pat Cookman

TITLE Tool pusher

DATE 8-3-10



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

acct. by H.
MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
FAX 620/431-0012

INVOICE

Invoice # 235412

Invoice Date: 07/23/2010 Terms:

operator pay

Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

moc
MILLER 1-19
~~28937~~ / *Dn*
07-22-10

KCC
AKC 30 200
CONFIDENTIAL

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	500.00	16.0000	8000.00
1118B	PREMIUM GEL / BENTONITE	940.00	.2000	188.00
1102	CALCIUM CHLORIDE (50#)	1410.00	.8800	1240.80
4132	CENTRALIZER 8 5/8"	2.00	79.0000	158.00

Sublet Performed	Description	Total
9999-70	CASH DISCOUNT	-4041.68

Description	Hours	Unit Price	Total
439 TON MILEAGE DELIVERY	646.25	1.50	969.38
515 TON MILEAGE DELIVERY	646.25	1.50	969.38
520 CEMENT PUMP (SURFACE)	1.00	985.00	985.00
520 EQUIPMENT MILEAGE (ONE WAY)	55.00	4.50	247.50

USED FOR _____

APPROVED _____

[Signature]

Parts:	9586.80	Freight:	.00	Tax:	714.22	AR	9430.60
Labor:	.00	Misc:	.00	Total:	9430.60		
Sublt:	-4041.68	Supplies:	.00	Change:	.00		

Signed _____ Date _____

BARTLESVILLE, OK
918/338-0808

ELDORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

GILLETTE, WY
307/686-4914

McALESTER, OK
918/426-7667

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

WORLAND, WY
307/347-4577



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 28937
LOCATION Eureka
FOREMAN Troy Strickler

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-22-10	5406	Miller 1-19				Gray
CUSTOMER Murfin Drilling Co. Inc.			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 250 N. Water Ste 300			520	Cliff		
CITY Wichita		STATE Ks	ZIP CODE 67202	543	Dave	
			439	Branch Wood		
			515	Chris		

JOB TYPE Surface 0 HOLE SIZE 12 1/4 HOLE DEPTH 490' CASING SIZE & WEIGHT 8 5/8" 24"
CASING DEPTH 490' k.b DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 15" SLURRY VOL 90 bbl WATER gal/sk 6.5" CEMENT LEFT IN CASING 15'
DISPLACEMENT 30 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

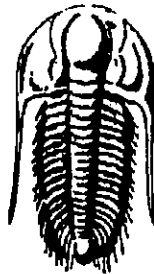
REMARKS: Safety Meeting: Rig up to 8 5/8" casing. mixed 375 lbs Class A Cement w/ 2% Gel + 3% Cacl₂ 15" gal. Displace w/ 30 bbl Fresh Water shut casing in w/ No Cement Return to surface. Run one inch to 105' after 7 hrs. Flush with water. mixed 125 lbs Class A Cement w/ 2% Cacl₂ 2% Gel. Good Cement to surface = Job Complete.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	985.00	985.00
5406	55	MILEAGE	4.50	247.50
1104S	500 sks	Class A Cement	16.00	8000.00
1118B	940 *	2% Gel	.20	188.00
1102	1410 *	3% Cacl ₂	.88	1240.80
5407A	23.5 Ton	Ton - mileage Bulk Truck	1.50	1938.75
4132	2	8 5/8" Centralizers	79.00	158.00
			13,472.28	
			- 30% Dis 4041.68	
			Total \$ 9430.60	
			Sub Total	12758.05
			7.45% SALES TAX	714.22
			ESTIMATED TOTAL	13,472.28

Revin 3737

AUTHORIZATION Mary Anderson TITLE Toolpusher DATE 7-22-10

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**TRILOBITE
TESTING, INC.**

AUG 3 0 2010
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, INC**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Brad Rine

19-27s-27w GRAY,KS

MILLER #1-19

Start Date: 2010.07.25 @ 01:33:00

End Date: 2010.07.25 @ 10:25:49

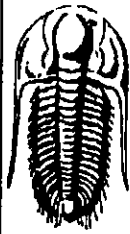
Job Ticket #: 36975 DST #: 1

RECEIVED

AUG 3 1 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

MILLER #1-19

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

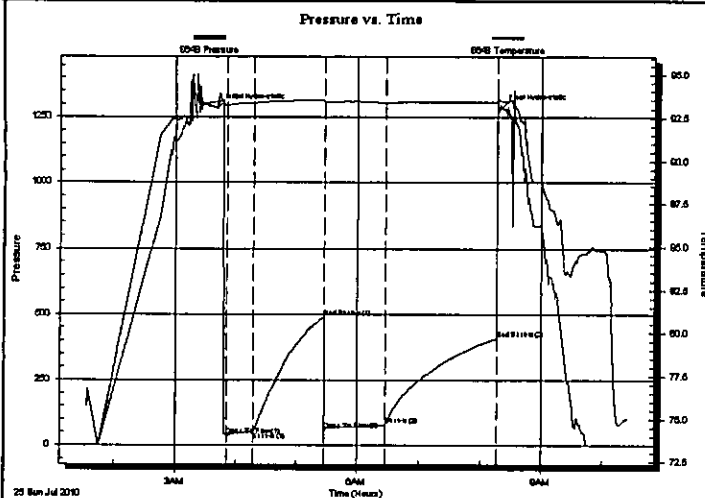
19-27s-27w GRAY,KS
Job Ticket: 36975 DST#: 1
Test Start: 2010.07.25 @ 01:33:00

GENERAL INFORMATION:

Formation: **HERRINGTON / KRIDER**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:50:20
 Time Test Ended: 10:25:49
 Interval: **2663.00 ft (KB) To 2729.00 ft (KB) (TVD)**
 Total Depth: **2729.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Jake Fahrenbruch
 Unit No: 43
 Reference Elevations: 2732.00 ft (KB)
 2721.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8648 **Inside**
 Press@RunDepth: 78.43 psig @ 2699.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.25 End Date: 2010.07.25 Last Calib.: 2010.07.25
 Start Time: 01:33:05 End Time: 10:25:50 Time On Btm: 2010.07.25 @ 03:41:40
 Time Off Btm: 2010.07.25 @ 08:19:50

TEST COMMENT: IF: Fairly strong blow, BOB in 10 minutes.
 IS: Bled off, no blow back.
 FF: Fair blow, BOB in 20 minutes.
 FS: Bled off, no blow back, no GTS.



PRESSURE SUMMARY

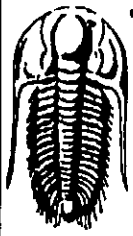
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1284.46	93.38	Initial Hydro-static
9	36.18	93.18	Open To Flow (1)
37	53.30	93.35	Shut-In(1)
106	489.95	93.53	End Shut-In(1)
106	58.19	93.37	Open To Flow (2)
166	78.43	93.35	Shut-In(2)
275	409.22	93.42	End Shut-In(2)
279	1285.02	93.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	WCM 10%w 90%m	0.44
0.00	No GIP	0.00
0.00	30,000 ppm chlorides	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, INC

MILLER #1-19

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

19-27s-27w GRAY,KS

Job Ticket: 36975 **DST#: 1**
Test Start: 2010.07.25 @ 01:33:00

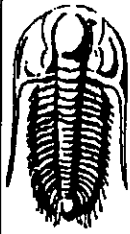
Tool Information

Drill Pipe:	Length: 2462.00 ft	Diameter: 3.80 inches	Volume: 34.54 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 35.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2663.00 ft			Final 46000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2640.00	
Hydraulic tool	5.00			2645.00	
Jars	5.00			2650.00	
Safety Joint	3.00			2653.00 - *	
Packer	5.00			2658.00	28.00 Bottom Of Top Packer
Packer	5.00			2663.00	
Stubb	1.00			2664.00	
Perforations	1.00			2665.00	
Blank Spacing	34.00			2699.00	
Recorder	0.00	8648	Inside	2699.00	
Recorder	0.00	6799	Outside	2699.00	
Bullnose	30.00			2729.00	66.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, INC

MILLER #1-19

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Fine

19-27s-27w GRAY,KS
Job Ticket: 36975 DST#: 1
Test Start: 2010.07.25 @ 01:33:00

Mud and Cushion Information

Mud Type: Water	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 30.00 sec/qt	Cushion Volume: bbl		
Water Loss: in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 47000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

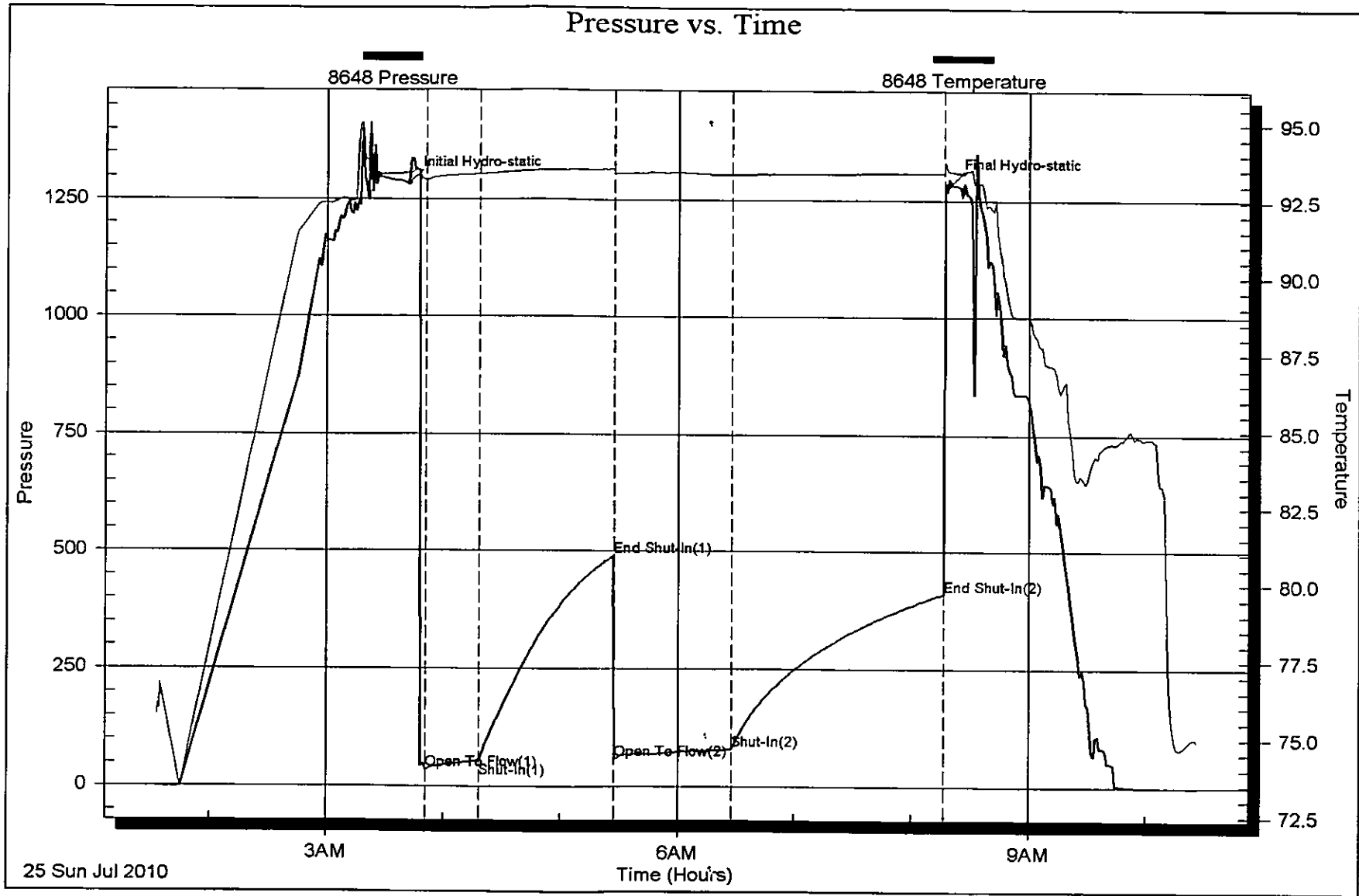
Length ft	Description	Volume bbl
90.00	WCM 10%w 90%m	0.443
0.00	No GIP	0.000
0.00	30,000 ppm chlorides	0.000

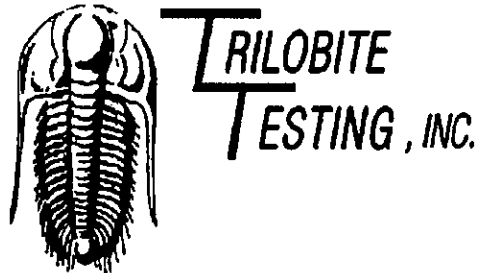
Total Length: 90.00 ft Total Volume: 0.443 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, INC**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Brad Rine

19-27s-27w GRAY,KS

MILLER #1-19

Start Date: 2010.07.31 @ 13:53:13

End Date: 2010.07.31 @ 21:50:43

Job Ticket #: 039241 DST #: 2

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

Printed: 2010.08.17 @ 12:22:24 Page 1

Murfin Drilling Company, INC

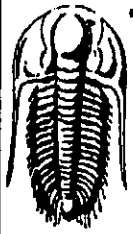
MILLER #1-19

19-27s-27w GRAY,KS

DST # 2

Morrow/Miss.

2010.07.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company, INC

MILLER #1-19

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

19-27s-27w GRAY,KS

Job Ticket: 039241 **DST#: 2**

Test Start: 2010.07.31 @ 13:53:13

GENERAL INFORMATION:

Formation: **Morrow/Miss.**

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

Time Tool Opened: 16:09:58

Time Test Ended: 21:50:43

Interval: **5000.00 ft (KB) To 5042.00 ft (KB) (TVD)**

Total Depth: **5042.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Reference Elevations: **2732.00 ft (KB)**

2721.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 8167

Inside

Press@RunDepth: **22.93 psig @ 5001.00 ft (KB)**

Start Date: **2010.07.31**

End Date: **2010.07.31**

Start Time: **13:53:18**

End Time: **21:50:42**

Capacity: **8000.00 psig**

Last Calib.: **2010.07.31**

Time On Btm: **2010.07.31 @ 16:08:13**

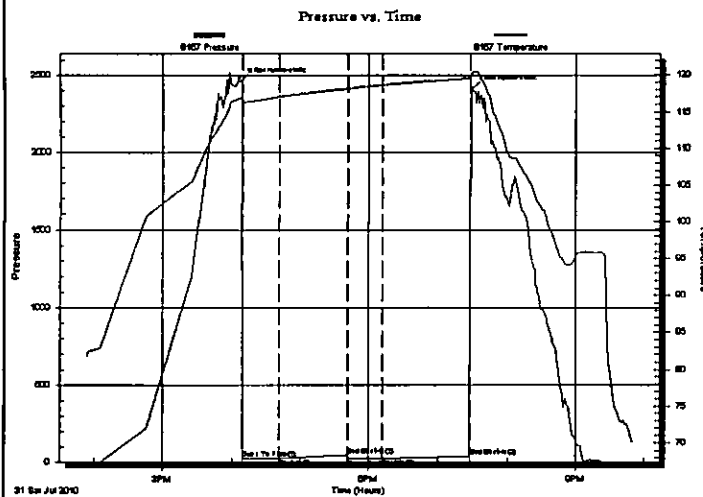
Time Off Btm: **2010.07.31 @ 19:28:43**

TEST COMMENT: **IF:Weak blow . 1/4".**

IS:No blow .

FF:No blow .

FS:No blow .



PRESSURE SUMMARY

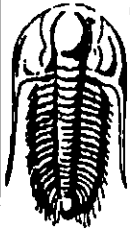
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2462.57	116.84	Initial Hydro-static
2	21.44	116.14	Open To Flow (1)
34	22.94	116.99	Shut-In(1)
94	45.72	118.09	End Shut-In(1)
94	19.01	118.09	Open To Flow (2)
124	22.93	118.61	Shut-In(2)
199	37.28	119.56	End Shut-In(2)
201	2417.22	120.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 1% @ 99% m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, INC

MILLER #1-19

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

19-27s-27w GRAY,KS

Job Ticket: 039241 DST#: 2

Test Start: 2010.07.31 @ 13:53:13

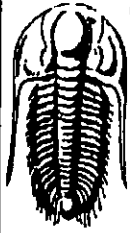
Tool Information

Drill Pipe:	Length: 4814.00 ft	Diameter: 3.80 inches	Volume: 67.53 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 77000.00 lb
		Total Volume: 68.42 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	5000.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4973.00	
Shut in tool	5.00			4978.00	
HMV	5.00			4983.00	
Jars	5.00			4988.00	
Safety Joint	3.00			4991.00	
Packer	4.00			4995.00	28.00 Bottom Of Top Packer
Packer	5.00			5000.00	
Stubb	1.00			5001.00	
Recorder	0.00	8167	Inside	5001.00	
Recorder	0.00	8370	Outside	5001.00	
Perforations	36.00			5037.00	
Bullnose	5.00			5042.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, INC

MILLER #1-19

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

19-27s-27w GRAY,KS
Job Ticket: 039241 DST#: 2
Test Start: 2010.07.31 @ 13:53:13

Mud and Cushion Information

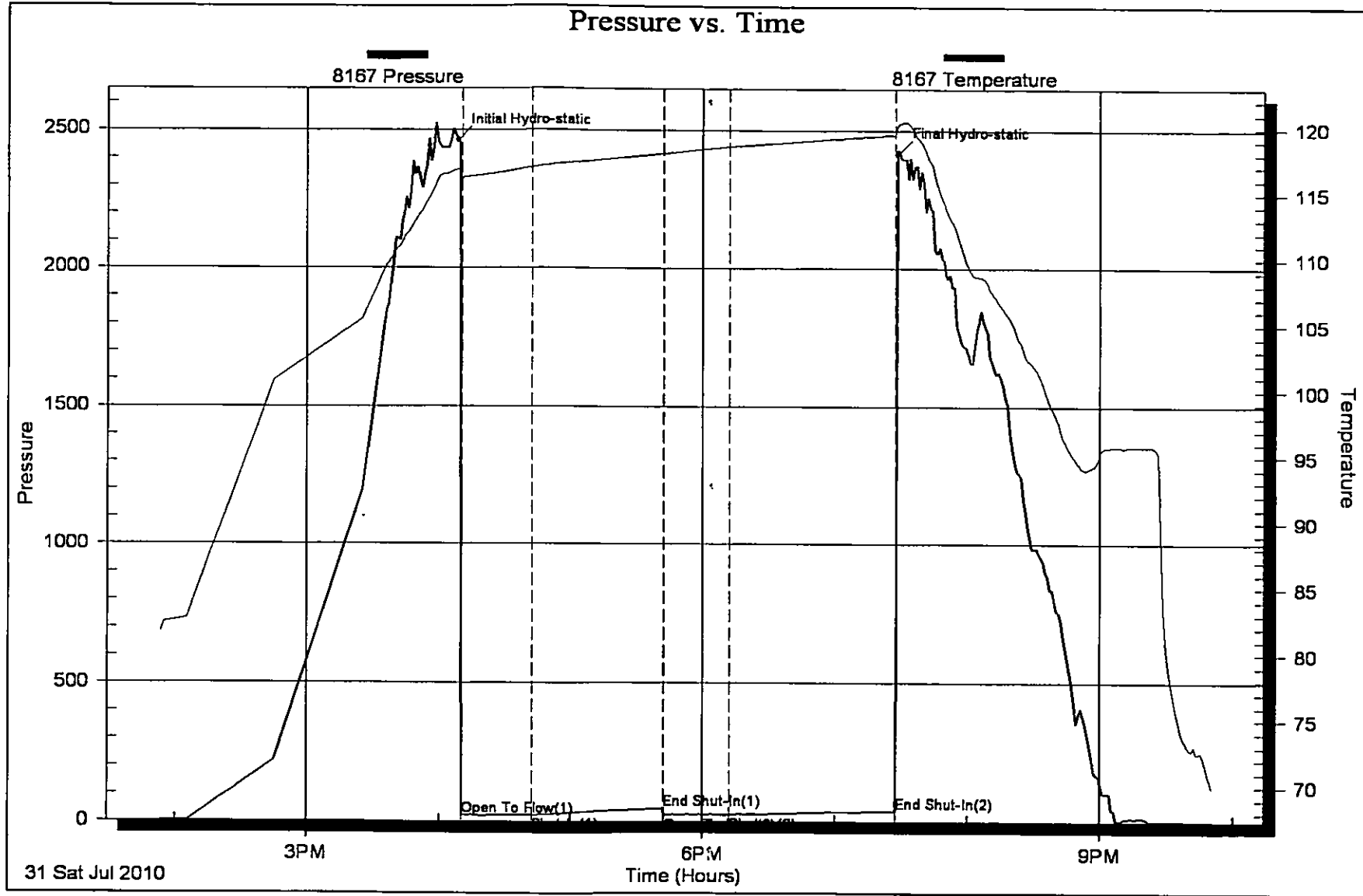
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	5200 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: 0.20 inches			

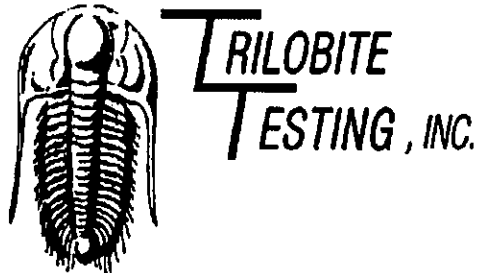
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 1%o 99%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company, INC**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Brad Rine

19-27s-27w GRAY,KS

MILLER #1-19

Start Date: 2010.08.01 @ 09:17:00

End Date: 2010.08.01 @ 17:53:19

Job Ticket #: 39584 DST #: 3

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

Printed: 2010.08.17 @ 12:22:46 Page 1

Murfin Drilling Company, INC

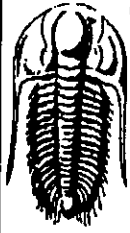
MILLER #1-19

19-27s-27w GRAY,KS

DST # 3

Morrow / Mississippi

2010.08.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company, INC

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

MILLER #1-19

19-27s-27w GRAY,KS

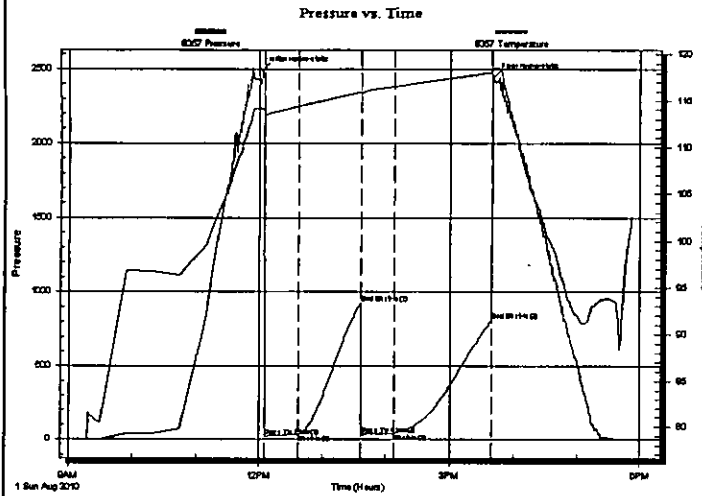
Job Ticket: 39584 DST#: 3
Test Start: 2010.08.01 @ 09:17:00

GENERAL INFORMATION:

Formation: **Morrow / Mississippi**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 12:05:20
 Time Test Ended: 17:53:19
 Interval: **5000.00 ft (KB) To 5065.00 ft (KB) (TVD)**
 Total Depth: **5065.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Chuck Smith**
 Unit No: **37**
 Reference Elevations: **2732.00 ft (KB)**
 2721.00 ft (CF)
 KB to GR/CF: **11.00 ft**

Serial #: 8357 Inside
 Press@RunDepth: **42.17 psig @ 5004.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.08.01** End Date: **2010.08.01** Last Calib.: **2010.08.01**
 Start Time: **09:17:05** End Time: **17:53:20** Time On Btm: **2010.08.01 @ 12:03:20**
 Time Off Btm: 2010.08.01 @ 15:40:50

TEST COMMENT: IF: 1/2" Blow receded to surface blow.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2491.32	114.03	Initial Hydro-static
2	20.92	112.98	Open To Flow (1)
34	32.47	114.35	Shut-In(1)
94	927.74	115.93	End Shut-In(1)
94	35.07	115.71	Open To Flow (2)
125	42.17	116.51	Shut-In(2)
216	806.40	118.03	End Shut-In(2)
218	2448.37	118.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 100%M	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

MILLER #1-19

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

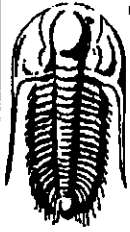
19-27s-27w GRAY,KS
Job Ticket: 39584 DST#: 3
Test Start: 2010.08.01 @ 09:17:00

Tool Information

Drill Pipe:	Length: 4819.00 ft	Diameter: 3.80 inches	Volume: 67.60 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: 22000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 68.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.50 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	5000.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.50 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			4973.50	
Shut In Tool	5.00			4978.50	
Hydraulic tool	5.00			4983.50	
Jars	5.00			4988.50	
Safety Joint	2.50			4991.00	
Packer	5.00			4996.00	27.50 Bottom Of Top Packer
Packer	4.00			5000.00	
Stubb	1.00			5001.00	
Perforations	3.00			5004.00	
Recorder	0.00	8357	Inside	5004.00	
Recorder	0.00	6751	Outside	5004.00	
Perforations	25.00			5029.00	
Change Over Sub	1.00			5030.00	
Drill Pipe	31.00			5061.00	
Change Over Sub	1.00			5062.00	
Bullnose	3.00			5065.00	65.00 Bottom Packers & Anchor
Total Tool Length:	92.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, INC

MILLER #1-19

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

19-27s-27w GRAY,KS
Job Ticket: 39584 **DST#: 3**
Test Start: 2010.08.01 @ 09:17:00

Mud and Cushion Information

Mud Type: Water	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM 100%M	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:

