

CONFIDENTIALKANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

RECEIVED

ORIGINAL

AUG 27 2010

Form ACO-1
June 2009Form Must Be Typed
Form must be Signed
All blanks must be Filled**WELL COMPLETION FORM**
WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC WICHITA

8/27/12

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 **KCC**
CONTRACTOR: License # 30606 **AUG 27 2010**
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Brad Rine **CONFIDENTIAL**
Purchaser: None

Designate Type of Completion:

- ☒ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☒ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM (Coal Bed Methane)
☐ Cathodic ☐ Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Conv. to GSW
☐ Plug Back: _____ Plug Back Total Depth: _____
☐ Commingled Permit #: _____
☐ Dual Completion Permit #: _____
☐ SWD Permit #: _____
☐ ENHR Permit #: _____
☐ GSW Permit #: _____

07/03/10 07/12/10 07/14/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 057-20689-0000

Spot Description: _____
SW NE NW SW Sec. 6 Twp. 26 S. R. 24 ☐ East ☒ West
2055 Feet from ☐ North / ☒ South Line of Section
780 Feet from ☐ East / ☒ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☒ SWCounty: FordLease Name: Niedens Well #: 1-6Field Name: WildcatProducing Formation: NoneElevation: Ground: 2522 Kelly Bushing: 2533Total Depth: 5130 Plug Back Total Depth: NoneAmount of Surface Pipe Set and Cemented at: 463 FeetMultiple 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: 08/27/10**KCC Office Use ONLY**

☒ Letter of Confidentiality Received
Date: 8/27/10 - 8/27/12
☐ Confidential Release Date: _____
☒ Wireline Log Received
☒ Geologist Report Received
☐ UIC Distribution
ALT ☐ I ☒ II ☐ III Approved by: NS Date: 9-3-10
PA

Operator Name: Murfin Drilling Company, Inc. Lease Name: Niedens Well #: 1-6
 Sec. 6 Twp. 26 S. R. 24 ☐ East ☒ West County: Ford

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 (Attach Additional Sheets)	☒ Yes ☐ No	☐ Log Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☒ Yes ☐ No	Name	Top Datum
Cores Taken	☐ Yes ☒ No	See Attached List	
Electric Log Run	☒ Yes ☐ No		
Electric Log Submitted Electronically (If no, Submit Copy)	☒ Yes ☐ No		

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

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CASING RECORD ☒ New ☐ 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#	463	Common	350	3% cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: ☐ Yes ☐ No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. (Submit ACO-5) ☐ Commingled (Submit ACO-4) ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Niedens #1-6 2055 FSL 780 FWL Sec. 6-T26S-R24W 2533' KB							LIX #1-4 820 FSL 2240 FEL Sec. 4-T26S-R24W 2546' KB	
Formations	Sample Tops	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Krider	2673	-140	+21	2690	-157	+4	2707	-161
Root Shale				3487	-954	-16	3484	-938
Heebner	4182	-1649	-11	4184	-1651	-15	4182	-1636
Lansing	4245	-1712	-11	4246	-1713	-13	4247	-1701
Stark	4640	-2073	-16	4607	-2074	-17	4603	-2057
Marmaton	4737	-2204	-16	4739	-2206	-18	4734	-2188
Pawnee	4826	-2293	-25	4827	-2294	-26	4814	-2268
Cherokee	4900	-2367	-26	4903	-2370	-29	4887	-2341
Base Pen Lime	4971??	-2438	-24	4994	-2461	-53	4960	-2414
Mississippian	5046	-2513	-58	5050	-2517	-62	5001	-2455
RTD	5130						5250	
LTD				5115			5249	

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AUG 27 2010
CONFIDENTIAL

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AUG 27 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

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

INVOICE

Invoice # 235135

Invoice Date: 07/12/2010 Terms:

Page 1

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

NIEDENS 1-6
28910
6-26-24
7-3-10

KCC
AUG 27 2010
CONFIDENTIAL

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	350.00	16.0000	5600.00
1102	CALCIUM CHLORIDE (50#)	987.00	.8800	868.56
1118B	PREMIUM GEL / BENTONITE	658.00	.2000	131.60
4432	8 5/8" WOODEN PLUG	1.00	92.0000	92.00

Sublet Performed	Description	Total
9999-100	CASH DISCOUNT	-2784.62

Description	Hours	Unit Price	Total
439 TON MILEAGE DELIVERY	1.00	678.70	678.70
445 CEMENT PUMP (SURFACE)	1.00	985.00	985.00
445 EQUIPMENT MILEAGE (ONE WAY)	55.00	4.50	247.50
515 TON MILEAGE DELIVERY	1.00	678.70	678.70

USED FOR New Well Drilling DOA
APPROVED [Signature]

DLN

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AUG 27 2010
KCC WICHITA

Parts:	6692.16	Freight:	.00	Tax:	532.02	AR	7029.46
Labor:	.00	Misc:	.00	Total:	7029.46		
Sublt:	-2784.62	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

GILLETTE, WY
307/686-4914

MC ALESTER, OK
918/426-7667

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

WORLAND, WY
307/347-4577

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

TICKET NUMBER 28910
LOCATION Oakland, CA
FOREMAN Walt Dunkel

FIELD TICKET & TREATMENT REPORT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-3-10	5406	Niedens 1-6	6	26 ^S	24 ^W	Ford
CUSTOMER MurFin Drly Co.			KCC			
MAILING ADDRESS P.O. Box 661			AUG 27 2010			
CITY Colby			CONFIDENTIAL			
STATE KS		ZIP CODE 67701	TRUCK # 445	DRIVER Justin J	TRUCK # 5/5	DRIVER Allen B
			439	Brandon W		

JOB TYPE	Surface	HOLE SIZE	12 1/4	HOLE DEPTH	463'	CASING SIZE & WEIGHT	8 5/8 - 24 #
CASING DEPTH	463'	DRILL PIPE		TUBING		OTHER	
SLURRY WEIGHT	15.2	SLURRY VOL		WATER gal/sk	5.7	CEMENT LEFT in CASING	15' +/-
DISPLACEMENT	28 1/2	DISPLACEMENT PSI		MIX PSI		RATE	5 BPM

REMARKS: Safety Meeting, ran 463' 8 5/8 casing, Hook up to circ.,
rig up to Trough, mixed 350 sks cement, release Plug + Displace
28 1/2 BWL water @ 250# psi. Shut in.
Cement Did Circ

Thank You Watt & Creel

[illegible]

Bayin 3737

AUTHORIZATION

TITLE

TITLE *Text Posker*

DATE _____

DATE 7-3-10

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.



CONSOLIDATED
Oil Well Services, LLC

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

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

INVOICE

Invoice # 235135

Invoice Date: 07/12/2010 Terms:

Page 1

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

PROD COPY NEEDED 1-6 KCC
28910

6-26-24 AUG 27 2010
7-3-10

CONFIDENTIAL

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KCC WICHITA

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	350.00	16.0000	5600.00
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4432	8 5/8" WOODEN PLUG	1.00	92.0000	92.00

Sublet Performed	Description	Total
9999-100	CASH DISCOUNT	-2784.62

Description	Hours	Unit Price	Total
439 TON MILEAGE DELIVERY	1.00	678.70	678.70
445 CEMENT PUMP (SURFACE)	1.00	985.00	985.00
445 EQUIPMENT MILEAGE (ONE WAY)	55.00	4.50	247.50
515 TON MILEAGE DELIVERY	1.00	678.70	678.70

USED FOR New Well Drilling D&A

APPROVED AS

Account	Unit	W	PL	Amount	Description
03606	020	20	3697	7029.46	Cement S. Cs

Parts:	6692.16	Freight:	.00	Tax:	532.02	AR	7029.46
Labor:	.00	Misc:	.00	Total:	7029.46		
Sublt:	-2784.62	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

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THAYER, KS
620/839-5269

WORLAND, WY
307/347-4577

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

TICKET NUMBER 28910

LOCATION Oakbrook

FOREMAN Walt Daniel

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER		SECTION	TOWNSHIP	RANGE	COUNTY
7-3-10	5406	Niedens 1-6		6	26S	24W	Ford
CUSTOMER MurFin Drly Co.							
MAILING ADDRESS P.O. Box 661				TRUCK #	DRIVER	TRUCK #	DRIVER
				445	Justin J		
				515	Allen B		
CITY Colby				439	Brandon W		
STATE Ks		ZIP CODE 67701					

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 463' CASING SIZE & WEIGHT 8 5/8 - 24 #

CASING DEPTH 463 - DRILL PIPE _____ TUBING _____ OTHER _____

SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk 5.7 CEMENT LEFT in CASING 1.5' +/-

DISPLACEMENT 28 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 Bpm

REMARKS: Soften Meeting room 463' 85% closing Hook - to pin

view to track mixed 350 sky constant release blue + Discharge

28 1/2 BR Waste @ 250# BS. Shut in.

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Thank You, 10/11/2019

THEIR 100 WINDS & WATERS

[illegible]

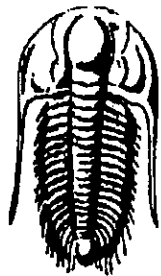
Ravin 3737

AUTHORIZATION

TITLE *David Kushner*

DATE 7-3-10

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.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling**

250 N Water STE 300
Wichita Ks, 67202

ATTN: Brad Rine

6 26S 24W Ford KS

Niedens 1-6

Start Date: 2010.07.07 @ 02:22:25

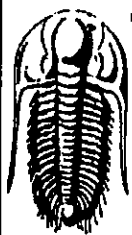
End Date: 2010.07.07 @ 13:57:55

Job Ticket #: 37368 DST #: 1

KCC
AUG 27 2010
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AUG 27 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

250 N Water STE 300
Wichita Ks, 67202

ATTN: Brad Rine

Niedens 1-6

6 26S 24W Ford KS

Job Ticket: 37368

DST#: 1

Test Start: 2010.07.07 @ 02:22:25

GENERAL INFORMATION:

Formation: **Topeka**

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

Time Tool Opened: 07:45:40

Time Test Ended: 13:57:55

Interval: **3780.00 ft (KB) To 3831.00 ft (KB) (TVD)**

Total Depth: **3831.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Mike Siemp**

Unit No: **28**

Reference Elevations: **2532.00 ft (KB)**

2522.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8677

Inside

Press@RunDepth: **233.02 psig @ 3782.00 ft (KB)**

Start Date: **2010.07.07**

End Date:

2010.07.07

Start Time: **02:22:26**

End Time:

13:57:55

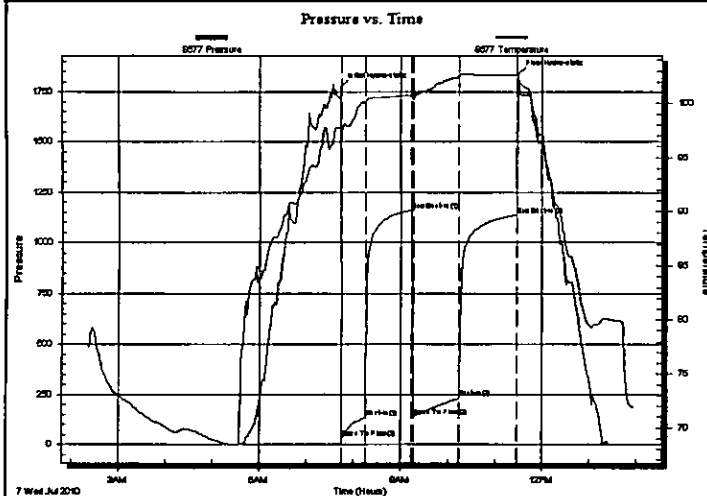
Capacity: **8000.00 psig**

Last Calib.: **2010.07.07**

Time On Btm: **2010.07.07 @ 07:44:25**

Time Off Btm: **2010.07.07 @ 11:29:25**

TEST COMMENT: IF- BOB in 18 min
IS- No blow back
FF- BOB in 30 min
FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.88	97.76	Initial Hydro-static
2	34.38	97.27	Open To Flow (1)
32	133.58	100.08	Shut-In(1)
90	1160.23	100.76	End Shut-In(1)
92	137.14	100.35	Open To Flow (2)
150	233.02	102.47	Shut-In(2)
224	1136.43	102.61	End Shut-In(2)
225	1836.86	102.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	MCW95%w ater5% mud	4.42

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling

Niedens 1-6

250 N Water STE 300
Wichita Ks, 67202

6 26S 24W Ford KS

Job Ticket: 37368

DST#: 1

ATTN: Brad Rine

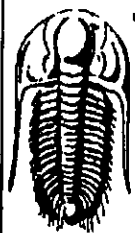
Test Start: 2010.07.07 @ 02:22:25

Tool Information

Drill Pipe:	Length: 3597.00 ft	Diameter: 3.80 inches	Volume: 50.46 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 51.36 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3780.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3754.00	
Shut In Tool	5.00			3759.00	
Hydraulic tool	5.00			3764.00	
Jars	5.00			3769.00	
Safety Joint	2.00			3771.00	
Packer	5.00			3776.00	27.00 Bottom Of Top Packer
Packer	4.00			3780.00	
Stubb	1.00			3781.00	
Perforations	1.00			3782.00	
Recorder	0.00	8677	Inside	3782.00	
Recorder	0.00	8678	Inside	3782.00	
Perforations	13.00			3795.00	
Change Over Sub	1.00			3796.00	
Drill Pipe	31.00			3827.00	
Change Over Sub	1.00			3828.00	
Bullnose	3.00			3831.00	51.00 Bottom Packers & Anchor
Total Tool Length:		78.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling

Niedens 1-6

250 N Water STE 300
Wichita Ks, 67202

6 26S 24W Ford KS

Job Ticket: 37368

DST#: 1

ATTN: Brad Rine

Test Start: 2010.07.07 @ 02:22:25

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:

65000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
434.00	MCW95%w ater5%mud	4.421

Total Length: 434.00 ft

Total Volume: 4.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

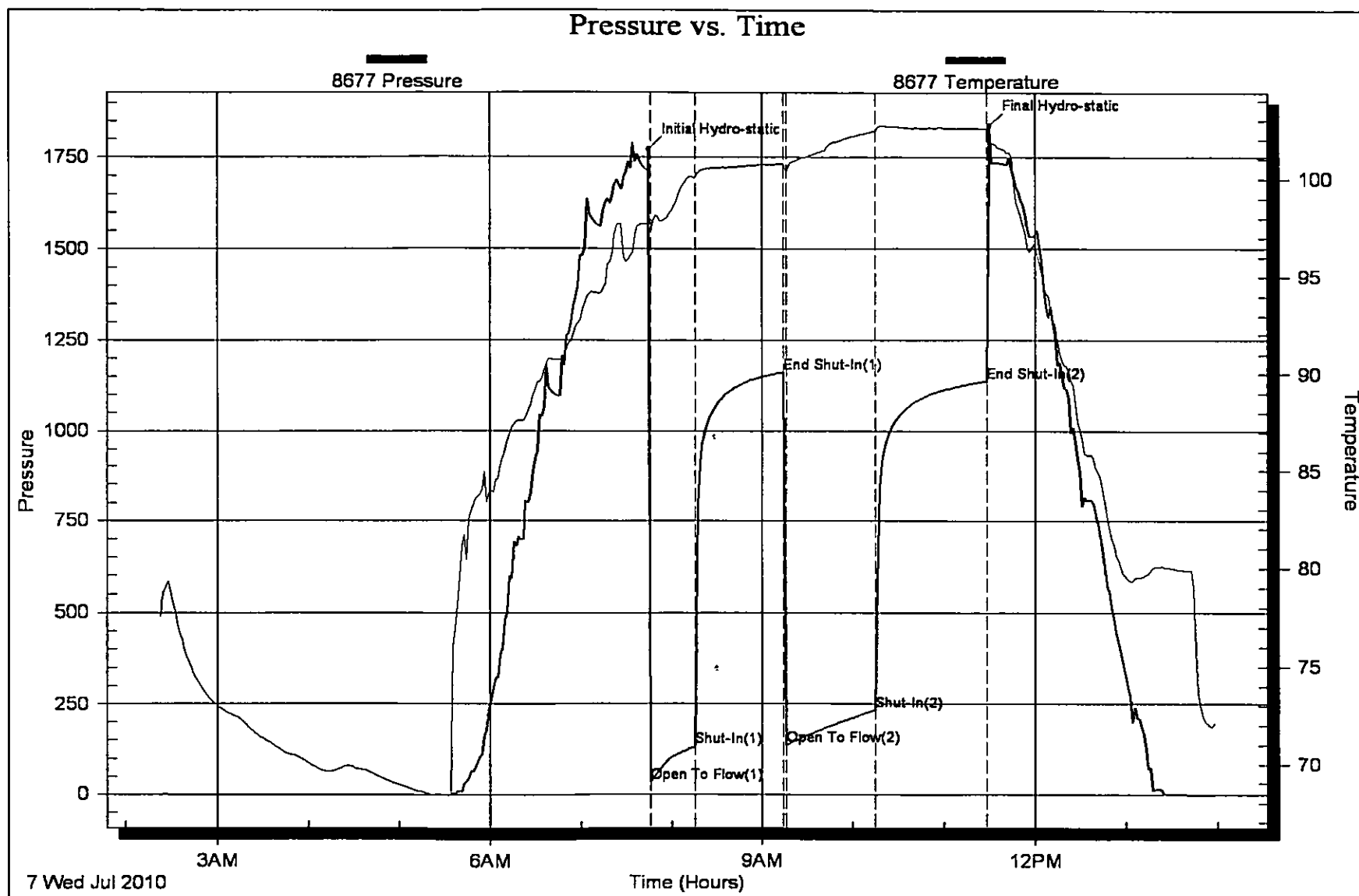
Recovery Comments: RW .17 @ 70F = 65000 chlorides

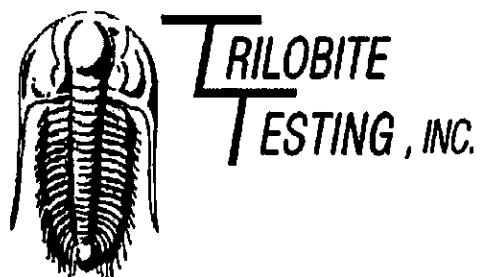
Serial #: 8677

Inside Murfin Drilling

6 26S 24W Ford KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling**
250 N Water STE 300
Wichita Ks, 67202

ATTN: Brad Rine

6 26S 24W Ford KS

Niedens 1-6

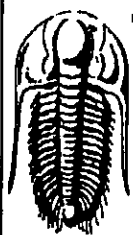
Start Date: 2010.07.11 @ 19:20:08

End Date: 2010.07.12 @ 02:13:53

Job Ticket #: 37369 DST #: 2

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

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling

250 N Water STE 300
Wichita Ks, 67202

ATTN: Brad Rine

Niedens 1-6

6 26S 24W Ford KS

Job Ticket: 37369

DST#: 2

Test Start: 2010.07.11 @ 19:20:08

GENERAL INFORMATION:

Formation: **Morrow**

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

Time Tool Opened: 21:42:23

Time Test Ended: 02:13:53

Interval: **4966.00 ft (KB) To 5037.00 ft (KB) (TVD)**

Total Depth: **5037.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Mike Slemp**

Unit No: **28**

Reference Elevations: **2532.00 ft (KB)**

2522.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: **8677**

Inside

Press@RunDepth: **123.44 psig @ 4968.00 ft (KB)**

Start Date: **2010.07.11**

End Date:

2010.07.12

Start Time: **19:20:09**

End Time:

02:13:53

Capacity: **8000.00 psig**

Last Calib.: **2010.07.12**

Time On Btm: **2010.07.11 @ 21:40:23**

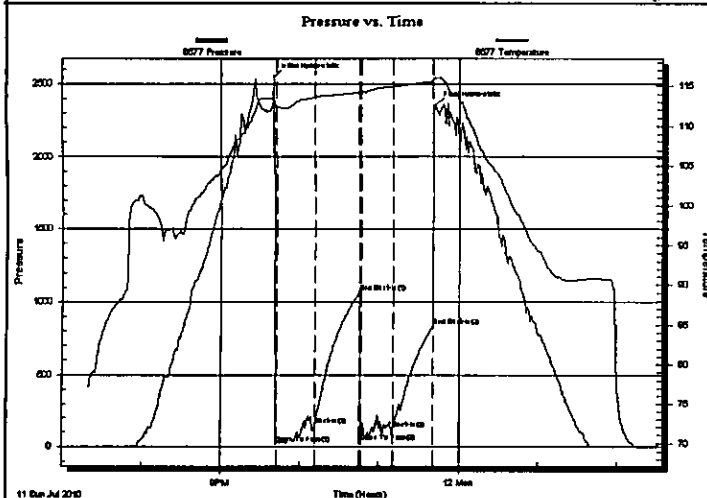
Time Off Btm: **2010.07.11 @ 23:42:23**

TEST COMMENT: IF- Weak surface blow , died after 15 min

IS- No blow back

FF- No blow

FSI- No blow back



PRESSURE SUMMARY

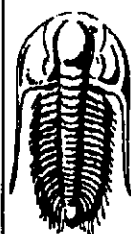
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2546.51	113.50	Initial Hydro-static
2	23.15	112.51	Open To Flow (1)
31	145.49	113.71	Shut-In(1)
65	1065.70	114.24	End Shut-In(1)
66	37.72	114.01	Open To Flow (2)
90	123.44	114.99	Shut-In(2)
120	832.24	115.61	End Shut-In(2)
122	2352.58	116.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling

250 N Water STE 300
Wichita Ks, 67202

ATTN: Brad Rine

Niedens 1-6

6 26S 24W Ford KS

Job Ticket: 37369

DST#: 2

Test Start: 2010.07.11 @ 19:20:08

Tool Information

Drill Pipe:	Length: 4764.00 ft	Diameter: 3.80 inches	Volume: 66.83 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	67.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4966.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4940.00	
Shut In Tool	5.00			4945.00	
Hydraulic tool	5.00			4950.00	
Jars	5.00			4955.00	
Safety Joint	2.00			4957.00	
Packer	5.00		Fluid	4962.00	27.00 Bottom Of Top Packer
Packer	4.00			4966.00	
Stubb	1.00			4967.00	
Perforations	1.00			4968.00	
Recorder	0.00	8677	Inside	4968.00	
Recorder	0.00	8678	Inside	4968.00	
Perforations	33.00			5001.00	
Change Over Sub	1.00			5002.00	
Drill Pipe	31.00			5033.00	
Change Over Sub	1.00			5034.00	
Bullnose	3.00			5037.00	71.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



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TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling

Niedens 1-6

250 N Water STE 300
Wichita Ks, 67202

6 26S 24W Ford KS

Job Ticket: 37369

DST#: 2

ATTN: Brad Rine

Test Start: 2010.07.11 @ 19:20:08

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% mud	0.049

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:

Serial #: 8677

Inside Murfin Drilling

6 26S 24W Ford KS

DST Test Number: 2

