

CONFIDENTIAL

ORIGINAL

RECEIVED

6/3/12

JUN 07 2010

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

KCC WICHITA

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33335

Name: IA Operating, Inc.

Address 1: 9915 W. 21st Street, Ste B

Address 2:

City: Wichita State: KS Zip: 67205 +

Contact Person: Robert D. Swann

Phone: (316) 721-0036

CONTRACTOR: License # 30606

Name: Murfin Drilling Co., Inc.

Wellsite Geologist: Stephen J. Miller

Purchaser: Coffeyville Resources

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 #:

02/27/10 03/05/10 3/25/10

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 137-20512-0000

Spot Description:

S/2\_NE\_NE\_SW Sec. 4 Twp. 3 S. R. 24  East  West  
2,060 Feet from  North /  South Line of Section  
2,310 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

County: Norton

Lease Name: Maddy Well #: 4-1

Field Name: Wildcat

Producing Formation: Lansing KC

Elevation: Ground: 2425' Kelly Bushing: 2430'

Total Depth: 3720' Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 218 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 2005' Feet

If Alternate II completion, cement circulated from: 2005

feet depth to: Surface w/ 365 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 5,000 ppm Fluid volume: 400 bbls

Dewatering method used: Evaporation/Backfill

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: Robert D. Swann

Title: Vice President Date: 6-3-2010

KCC Office Use ONLY

- Letter of Confidentiality Received Date: 6-7-10
- Confidential Release Date: 6-3-12
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: NJ Date: 6-14-10

Operator Name: IA Operating, Inc. Lease Name: Maddy Well #: 4-1  
 Sec. 4 Twp. 3 S. R. 24  East  West County: Norton

**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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: Geologist's Report, Dual Induction Log, Compensated Density/Neutron Log, Dual Receiver Cement Bond Log, Micro Log, Sonic Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1974</td> <td>+456</td> </tr> <tr> <td>Topeka</td> <td>3203</td> <td>-773</td> </tr> <tr> <td>Heebner Shale</td> <td>3380</td> <td>-950</td> </tr> <tr> <td>Lansing</td> <td>3422</td> <td>-992</td> </tr> <tr> <td>Gorham</td> <td>3640</td> <td>-1210</td> </tr> <tr> <td>Granite Wash</td> <td>3675</td> <td>-1245</td> </tr> <tr> <td>Total Depth</td> <td>3708</td> <td>-1278</td> </tr> </table>	Name	Top	Datum	Anhydrite	1974	+456	Topeka	3203	-773	Heebner Shale	3380	-950	Lansing	3422	-992	Gorham	3640	-1210	Granite Wash	3675	-1245	Total Depth	3708	-1278
Name	Top	Datum																							
Anhydrite	1974	+456																							
Topeka	3203	-773																							
Heebner Shale	3380	-950																							
Lansing	3422	-992																							
Gorham	3640	-1210																							
Granite Wash	3675	-1245																							
Total Depth	3708	-1278																							

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	12 1/4"	8 5/8"	23#	219	Common	150	3% CC, 2% gel
Production	7 7/8"	5 1/2"	15.5#	3719'	Common	125	10 Nac1, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone		QMDC	365	1/4 Flo-seal

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
4	3462-64	250 gal 15% MCA, retreat w/500 gal, 15% MCA	

TUBING RECORD: Size: <u>2 3/8"</u> Set At: <u>3535.08</u> Packer At: _____		Liner Run: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>3/25/10</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>30</u>	Gas Mcf <u>0</u> Water Bbls. <u>15</u> 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: _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3752

Date	3-16-10	Sec.	4	Twp.	3	Range	24	County	Norton	State	Ks.	On Location		Finish	11:45 AM										
Lease	Maddy	Well No.	4-1		Location		Norton SW 15 1E																		
Contractor	Chitos Well Service					Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.																			
Type Job	Port Collar					Charge To I.A. Operating																			
Hole Size	T.D.					Street																			
Csg.	5 1/2					Depth																			
Tbg. Size	2 3/8					Depth																			
Tool	Port Collar					Depth					2005					City					State				
Cement Left in Csg.	Shoe Joint					The above was done to satisfaction and supervision of owner agent or contractor.																			
Meas Line	Displace					Used 365sx CEMENT																			

**EQUIPMENT**

Pumptrk	9	No.	Cementor	Stene	Amount Ordered	420 Q-MDC 1/4 Flowseal per sk									
Bulktrk	12	No.	Helper		Common	365 @ 14.00									
Bulktrk		No.	Driver	Tant	Poz. Mix										
Bulktrk		No.	Driver	Meate	Gel.										

**JOB SERVICES & REMARKS**

Remarks:	Port Collar @ 2005										RECEIVED				
	Pressure casing to 1000psi										JUN 07 2010				
	Open Mix 365x & Open tool										KCC WICHITA				
	Mix 365x followed by 365sx														
	Q-MDC														
	Cement did Circulate										Handling 420 @ 2.00				
	Close tool & Pressure casing to 100psi										Mileage 800.00				
	Run 5 jts & wash clean										FLOAT EQUIPMENT				

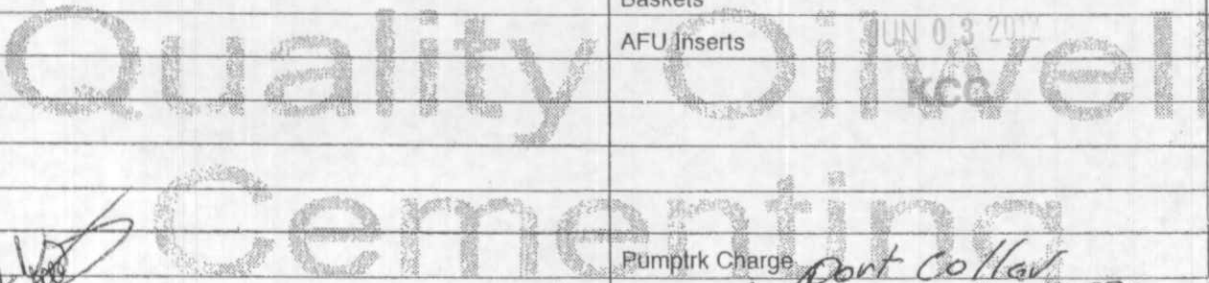
Used 365sx

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	

Pumptrk Charge	port collar	500.00
Mileage	Haxle	54 @ 9.00
Tax		
Discount		
Total Charge		

X Signature *[Signature]*

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# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3557

Date	3/5/10	Sec.	4	Twp.	3	Range	29	County	Norton	State	KS	On Location		Finish	11:30 AM
Lease	Maddy	Well No.	4-1	Location Norton, 8W, 1S, 1/2 E, N into											

Contractor	Martin Drilling Rig #16	Owner	To Quality Oilwell Cementing, Inc.
Type Job	Long String	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	7 7/8	T.D.	3720'
Csg.	5 1/2" 15.50#	Depth	3719'
Tbg. Size		Street	
Drill Pipe		City	State
Tool	Part Collar	Depth	2006'
Cement Left in Csg.	22'	Shoe Joint	22'

Press Max.		Minimum		Amount Ordered	160 ex Com 10% Salt 2% gel
Meas Line		Displace	88 Bbls.	Common	160 @ 1150

Perf.		Poz. Mix	
EQUIPMENT		Gel.	
Pumptrk	1 No.	Cementer	Paul
		Helper	
Bulktrk	8 No.	Driver	Brandon
		Driver	
Bulktrk	FU No.	Driver	Rocky
		Driver	

JOB SERVICES & REMARKS			
Pumptrk Charge	prod string	750 <sup>00</sup>	500gal Mud Clear -48 400 <sup>00</sup>
Mileage	54 @ 27 <sup>00</sup>		
Footage			
Total		Handling	182 @ 2 <sup>00</sup>

Remarks:	<del>0000</del> Pump 500gal Mud Clear-48	Mileage	Hoxie City + mileage	600 <sup>00</sup>
	Mix 30 ex Rathole	Pump Truck Charge		
	Mix 15 ex Mousehole	5 1/2	Float Equipment	375 <sup>00</sup>
	Mix 115 ex down 5 1/2"	Guide Shoe	1 Float Shoe	<del>375<sup>00</sup></del>
	Displace	Centralizer	7	315 <sup>00</sup>
	Land Plug	Baskets	1	170 <sup>00</sup>
	AFU Held	AFU Inserts	1	<del>375<sup>00</sup></del>
		Latch Down Assembly		375 <sup>00</sup>
		Part Collar		1600 <sup>00</sup>
		12 Rec. Scratchers		540 <sup>00</sup>

Rotating Head	
Squeez Mainfold	

Signature	Alex Stanten	Tax	RECEIVED JUN 07 2010 KCC WICHITA
		Discount	
		Total Charge	

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KCC  
Quality Oilwell Cementing

Thank you!!

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3744

Date	2-27-10	Sec.	Twp.	Range	County	State	On Location	Finish	
Lease	Maddy	Well No.	291	Location Norton SW 15 SE					5:45 PM
Contractor	Martin Drilling Rig 16	Owner			To Quality Oilwell Cementing, Inc.				
Type Job	Surface	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			Charge To JA Operation				
Hole Size	12 1/4	T.D.	219	Street					City State
Csg.	88 230	Depth	219	The above was done to satisfaction and supervision of owner agent or contractor.					
Tbg. Size		Depth		CEMENT					
Tool		Depth		Amount Ordered					150 Can 30cc Label
Cement Left in Csg.	10-15'	Shoe Joint		Common					
Meas Line		Displace	13.351	Poz. Mix					
EQUIPMENT				Gel.					
Pumptrk	9	No.	Cementor	Calcium					
			Helper	Hulls					CONFIDENTIAL
Bulktrk	8	No.	Driver	Salt					JUN 03 2010
			Driver	Flowseal					KCC
Bulktrk		No.	Driver	Handling					
			Driver	Mileage					
JOB SERVICES & REMARKS				FLOAT EQUIPMENT					
Remarks:	Cement did circulate			Guide Shoe					
				Centralizer					
				Baskets					
				AFU Inserts					
				S.W.A.B.F.					
				Pumptrk Charge					RECEIVED
				Mileage					JUN 07 2010
				Tax					KCC WICHITA
				Discount					
				Total Charge					
X Signature	In Ryo			CONFIDENTIAL					



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **I A Operating, Inc.**

9915 W 21st Street North  
Suite B  
Wichita, KS 67205

**CONFIDENTIAL**

ATTN: Steve Miller

**4 3S 24W Norton KS**

**Maddy #4-1**

Start Date: 2010.03.02 @ 09:09:00

End Date: 2010.03.02 @ 14:03:30

Job Ticket #: 37304                      DST #: 1

**CONFIDENTIAL**  
JUN 03 2012  
KCC

**RECEIVED**  
JUN 07 2010  
KCC WICHITA

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

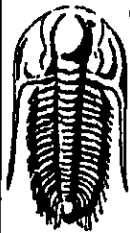
I A Operating, Inc.  
Maddy #4-1

4 3S 24W Norton KS

DST # 1

LKC "B"

2010.03.02



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

IA Operating, Inc.  
9915 W 21st Street North  
Suite B  
Wichita, KS 67205  
ATTN: Steve Miller

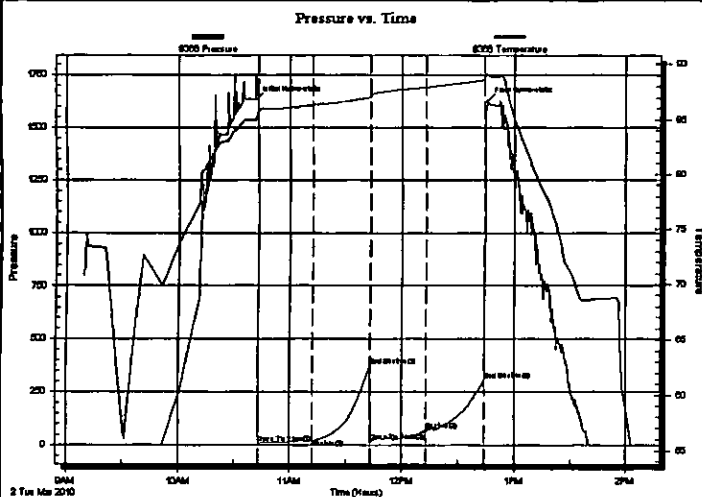
**Maddy #4-1**  
**4 3S 24W Norton KS**  
Job Ticket: 37304      DST#: 1  
Test Start: 2010.03.02 @ 09:09:00

## GENERAL INFORMATION:

Formation: LKC "B"		Test Type: Conventional Bottom Hole
Deviated: No Whipstock	ft (KB)	Tester: James Winder
Time Tool Opened: 10:43:00		Unit No: 46
Time Test Ended: 14:03:30		Reference Elevations: 2430.00 ft (KB)
Interval: 3431.00 ft (KB) To 3452.00 ft (KB) (TVD)		2425.00 ft (CF)
Total Depth: 3452.00 ft (KB) (TVD)		KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair	

<b>Serial #: 8366</b>	inside			Capacity:	8000.00 psig
Press@RunDepth:	68.92 psig @	3432.00 ft (KB)		Last Calib.:	2010.03.02
Start Date:	2010.03.02	End Date:	2010.03.02	Time On Btm:	2010.03.02 @ 10:41:00
Start Time:	09:09:05	End Time:	14:03:29	Time Off Btm:	2010.03.02 @ 12:45:30

**TEST COMMENT:** IF: Blow built to 1/2", slowly died back to 1/4"  
IS: Bled off, No blow back  
FF: Surface blow, dead in 8 min.  
FS: No blow back



## PRESSURE SUMMARY

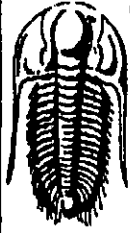
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.16	84.95	Initial Hydro-static
2	11.94	85.66	Open To Flow (1)
31	28.96	86.29	Shut-in(1)
62	376.87	87.03	End Shut-in(1)
63	19.51	87.09	Open To Flow (2)
92	68.92	87.94	Shut-in(2)
123	305.86	88.61	End Shut-in(2)
125	1624.97	89.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 98% m, 2% o	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating, Inc.

**Maddy #4-1**

9915 W 21st Street North  
Suite B  
Wichita, KS 67205  
ATTN: Steve Miller

**4 3S 24W Norton KS**

Job Ticket: 37304

DST#: 1

Test Start: 2010.03.02 @ 09:09:00

## Tool Information

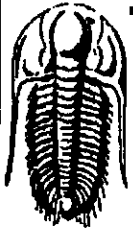
Drill Pipe:	Length: 3296.00 ft	Diameter: 3.80 inches	Volume: 46.23 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 46.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3431.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

S.I Tool	5.00			3416.00	
HYD S.I Tool	5.00			3421.00	
Packer	5.00			3426.00	20.00 Bottom Of Top Packer
Packer	5.00			3431.00	
Stubb	1.00			3432.00	
Recorder	0.00	8366	Inside	3432.00	
Recorder	0.00	8320	Outside	3432.00	
Perforations	17.00			3449.00	
Bullnose	3.00			3452.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

IA Operating, Inc.

Maddy #4-1

9915 W 21st Street North  
Suite B  
Wichita, KS 67205  
ATTN: Steve Miller

4 3S 24W Norton KS  
Job Ticket: 37304      DST#: 1  
Test Start: 2010.03.02 @ 09:09:00

**Mud and Cushion Information**

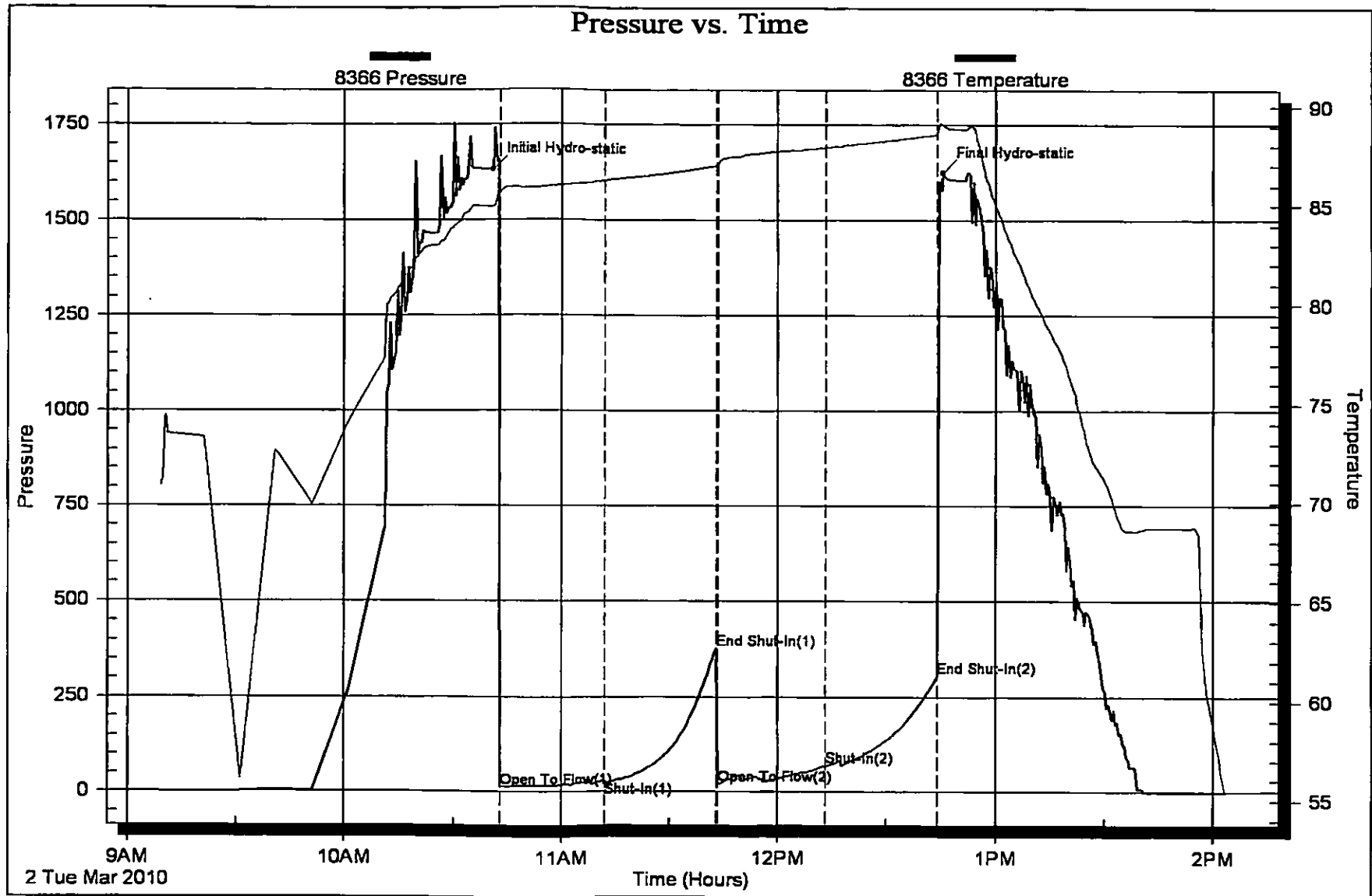
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 0.03 inches			

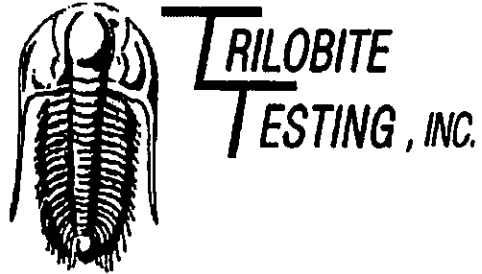
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 98% m, 2% o	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:





## DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

9915 W 21st Street North  
Suite B  
Wichita, KS 67205

ATTN: Steve Miller

**4 3S 24W Norton KS**

**Maddy #4-1**

Start Date: 2010.03.03 @ 08:03:00

End Date: 2010.03.03 @ 13:53:00

Job Ticket #: 37306                      DST #: 3

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

IA Operating, Inc.

Maddy #4-1

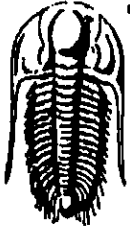
4 3S 24W Norton KS

DST # 3

LKC "E"

2010.03.03





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

IA Operating, Inc.  
9915 W 21st Street North  
Suite B  
Wichita, KS 67205  
ATTN: Steve Miller

**Maddy #4-1**  
**4 3S 24W Norton KS**  
Job Ticket: 37306      DST#: 3  
Test Start: 2010.03.03 @ 08:03:00

**Tool Information**

Drill Pipe:	Length: 3455.00 ft	Diameter: 3.80 inches	Volume: 48.46 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3493.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:  
Tool slid 5' to bottom before open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3478.00	
HYD S.I. Tool	5.00			3483.00	
Packer	5.00			3488.00	20.00      Bottom Of Top Packer
Packer	5.00			3493.00	
Stubb	1.00			3494.00	
Recorder	0.00	8366	Inside	3494.00	
Recorder	0.00	8320	Outside	3494.00	
Perforations	9.00			3503.00	
Bullnose	3.00			3506.00	13.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

IA Operating, Inc.  
9915 W 21st Street North  
Suite B  
Wichita, KS 67205  
ATTN: Steve Miller

**Maddy #4-1**  
**4 3S 24W Norton KS**  
Job Ticket: 37306      **DST#: 3**  
Test Start: 2010.03.03 @ 08:03:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 63.00 sec/qt  
Water Loss: 7.58 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 900.00 ppm  
Filter Cake: 0.03 inches

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

Oil API: deg API  
Water Salinity: 52000 ppm

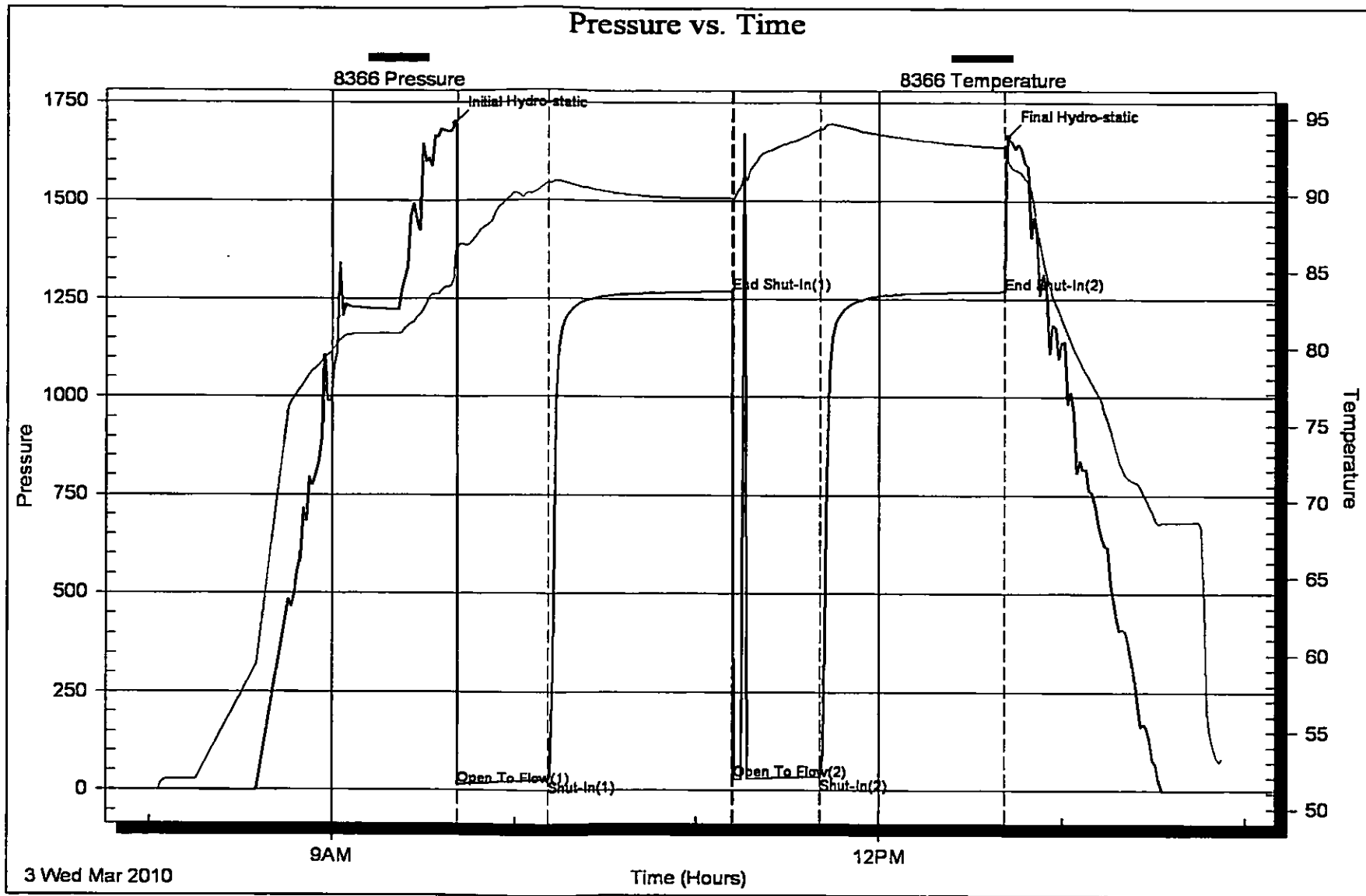
## Recovery Information

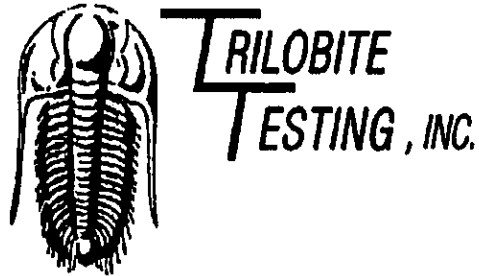
Recovery Table

Length ft	Description	Volume bbl
40.00	MCW w/trace oil 78%w, 22%m	0.288
0.00	RW = .169 ohms @ 62.3 deg F	0.000
0.00	Chlorides = 52,000 ppm	0.000

Total Length: 40.00 ft      Total Volume: 0.288 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

9915 W 21st Street North  
Suite B  
Wichita, KS 67205

ATTN: Steve Miller

**4 3S 24W Norton KS**

**Maddy #4-1**

Start Date: 2010.03.04 @ 18:17:00

End Date: 2010.03.05 @ 01:55:30

Job Ticket #: 37307                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

IA Operating, Inc.

Maddy #4-1

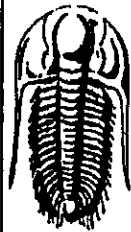
4 3S 24W Norton KS

DST # 4

LKC "I - J"

2010.03.04





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

IA Operating, Inc.  
9915 W 21st Street North  
Suite B  
Wichita, KS 67205  
ATTN: Steve Miller

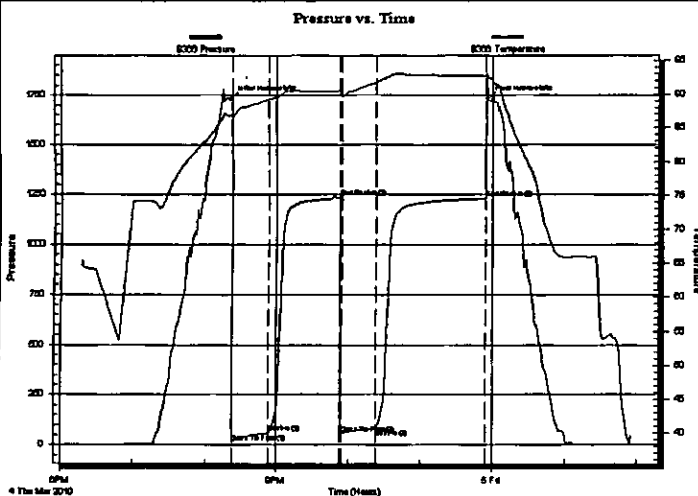
**Maddy #4-1**  
**4 3S 24W Norton KS**  
Job Ticket: 37307      DST#: 4  
Test Start: 2010.03.04 @ 18:17:00

## GENERAL INFORMATION:

Formation: **LKC "I - J"**  
Deviated: **No Whipstock**      ft (KB)      Test Type: **Conventional Straddle**  
Time Tool Opened: **20:23:00**      Tester: **James Winder**  
Time Test Ended: **01:55:30**      Unit No: **46**  
Interval: **3534.00 ft (KB) To 3584.00 ft (KB) (TVD)**      Reference Elevations: **2430.00 ft (KB)**  
Total Depth: **3720.00 ft (KB) (TVD)**      **2425.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**      KB to GR/CF: **5.00 ft**

**Serial #: 8366**      Inside  
Press@RunDepth: **79.71 psig @ 3535.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.03.04**      End Date: **2010.03.05**      Last Calib.: **2010.03.05**  
Start Time: **18:17:05**      End Time: **01:55:29**      Time On Btm: **2010.03.04 @ 20:21:00**  
Time Off Btm: **2010.03.04 @ 23:55:29**

**TEST COMMENT:** IF: Blow built to 10 1/2"  
IS: Bled off, Blow back built to 1/2", dieing back @ 25 min., dead @ 46 min.  
FF: Blow built to BOB in 21 min.  
FS: Bled off, Blow back built to 2 1/2", on/off blow after 40



## PRESSURE SUMMARY

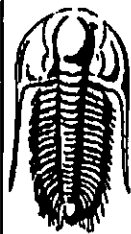
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.73	86.77	Initial Hydro-static
2	13.61	86.16	Open To Flow (1)
33	57.26	89.30	Shut-in(1)
92	1234.00	90.53	End Shut-in(1)
94	56.02	89.62	Open To Flow (2)
122	79.71	91.75	Shut-in(2)
213	1229.45	92.71	End Shut-in(2)
215	1733.73	92.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
160.00	GOCM 63% m, 28% o, 9% g	1.42
0.00	GIP = 150'	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating, Inc.  
9915 W 21st Street North  
Suite B  
Wichita, KS 67205  
ATTN: Steve Miller

Maddy #4-1  
4 3S 24W Norton KS  
Job Ticket: 37307      DST#: 4  
Test Start: 2010.03.04 @ 18:17:00

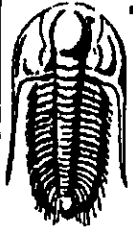
### Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 bbl	Tool Weight: 2500.00 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: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3534.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3584.00 ft			
Interval between Packers:	50.00 ft			
Tool Length:	206.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I Tool	5.00			3519.00	
HYD S.I. Tool	5.00			3524.00	
Packer	5.00			3529.00	20.00      Bottom Of Top Packer
Packer	5.00			3534.00	
Stubb	1.00			3535.00	
Recorder	0.00	8366	Inside	3535.00	
Perforations	8.00			3543.00	
Blank Spacing	33.00			3576.00	
Perforations	3.00			3579.00	
Recorder	0.00	7457	Inside	3579.00	
Blank Off Sub	1.00			3580.00	
Blank Spacing	4.00			3584.00	50.00      Tool Interval
Packer	0.00			3584.00	
Stubb	1.00			3585.00	
Recorder	0.00	8320	Below	3585.00	
Perforations	4.00			3589.00	
Blank Spacing	128.00			3717.00	
Bullnose	3.00			3720.00	136.00      Bottom Packers & Anchor

**Total Tool Length: 206.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

IA Operating, Inc.

Maddy #4-1

9915 W 21st Street North  
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Wichita, KS 67205  
ATTN: Steve Miller

4 3S 24W Norton KS  
Job Ticket: 37307      DST#: 4  
Test Start: 2010.03.04 @ 18:17:00

**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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 0.03 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
160.00	GOCM 63% <i>m</i> , 28% <i>o</i> , 9% <i>g</i>	1.425
0.00	GP = 150'	0.000

Total Length: 160.00 ft      Total Volume: 1.425 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

