

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
October 2008
Form Must Be Typed

9/21/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33168
Name: WOOLSEY OPERATING COMPANY, LLC
Address 1: 125 N. Market
Address 2: Suite 1000
City: Wichita State: KS Zip: 67202
Contact Person: Dean Pattison
Phone: (316) 267-4379 (ext. 107)
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: BILLY G. KLAVER
Purchaser: PLAINS MARKETING / ONEOK GAS MARKETING

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: n/a
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr. Conv. to SWD
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No.: _____
 Dual Completion Docket No.: _____
 Other (SWD or Enhr.?) Docket No.: _____
05/21/2010 05/30/2010 06/16/2010
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 007-23540 00 00
Spot Description: 90' N, 70' E of S2 SW NW
NW SE SW NW Sec. 31 Twp. 34 S. R. 11 East West
2220 Feet from North / South Line of Section
730 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barber
Lease Name: MILLER Well #: 3
Field Name: Stranathan
Producing Formation: Misener
Elevation: Ground: 1363 Kelly Bushing: 1373
Total Depth: 5430 Plug Back Total Depth: 5139
Amount of Surface Pipe Set and Cemented at: 225 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.

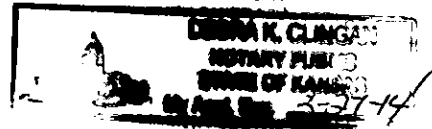
Drilling Fluid Management Plan ATTN 10-1810
(Data must be collected from the Reserve Pit)
Chloride content: 18,400 ppm Fluid volume: 1100 bbls
Dewatering method used: Haul free fluids and allow to dry
Location of fluid disposal if hauled offsite:
Operator Name: N/A
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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.

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: Dean Pattison Date: September 21, 2010
Exploration and Production Manager
Subscribed and sworn to before me this 21st day of Sept.
20 10
Notary Public: Debra K. Clingan
Date Commission Expires: March 27, 2014

KCC Office Use ONLY
 Letter of Confidentiality Received 9/21/10 - 9/21/12
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
RECEIVED
SEP 21 2010



KCC WICHITA

Operator Name: WOOLSEY OPERATING COMPANY, LLC Lease Name: MILLER Well #: 3
 Sec. 31 Twp. 34 S. R. 11 East West County: Barber

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chase	1842 - 469
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Douglas	3791 - 2418
List All E. Logs Run:		Hertha	4487 - 3114
Neutron Density		Mississippian	4703 - 3330
Dual Induction		Misener	5046 - 3673
Cement Bond		Simpson	5194 - 3821
		Arbuckle	5392 - 4019

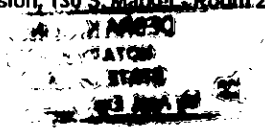
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	14 3/4"	10 3/4"	32.75# / ft	225	Class A	245	2% gel, 3% cc
Production	7 7/8"	4 1/2"	10.5# / ft	5186	60/40 poz	50	4% gel, 1/4# Floseal
					Class H	150	10% salt, 10% Gypseal, 1/4# Floseal, 6# Kotseal, & .8% FL-160

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
4	Perf Misener Sand zone 5046'-5048'	ACID: none	
		FRAC: none	

TUBING RECORD: Size: _____ Set At: _____ Packer At: <u>n/a</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. <u>06/16/2010</u>		Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i>	
Estimated Production Per 24 Hours	Oil Bbls. <u>38</u>	Gas Mcf <u>120</u>	Water Bbls. <u>- 0 -</u> Gas-Oil Ratio <u>3158 : 1</u> Gravity <u>36</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>5046-48'</u>
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ALLIED CEMENTING CO., LLC. 041457

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

SERVICE POINT:
Medicine Lodge, KS

DATE <u>5-31-10</u>	SEC <u>31</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	CALLED OUT <u>9:00am</u>	ON LOCATION <u>1:00pm</u>	JOB START <u>6:30 pm</u>	JOB FINISH <u>7:00pm</u>
LEASE <u>miller</u>	WELL# <u>3</u>	LOCATION <u>Medicine Lodge, KS</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>14 Savin, Eggs + into</u>					

CONTRACTOR V91 #3 OWNER Woolsey Operating

TYPE OF JOB <u>Production</u>	T.D. <u>5430'</u>
HOLE SIZE <u>7 7/8</u>	DEPTH <u>5185'</u>
CASING SIZE <u>4 1/2</u>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>40'</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>82 1/2 bbls of Fluid</u>	
EQUIPMENT <u>2 1/2" ECL 29" H</u>	

PUMP TRUCK CEMENTER Darin F.
360-265 HELPER Dave F.

BULK TRUCK
363-251 DRIVER Monty

BULK TRUCK
_____ DRIVER _____ Regulatory Correspondence
Drig Comp Workovers
Tests / Meters Operations

REMARKS:

Pipe on bottom & break circulation
mix 35% for Reamer hole, mix 50%
for seacase cement, mix 150% of 49.1
cement, shut down, wash pump & lines,
Release plug, Start displacement, Lift
pressure to 50 bbls, slow run to 3 bpm
at 70 bbls, bump plus to 82 1/2 bbls 700-
1500 psi, flow to 2 1/2 hole

CHARGE TO: Woolsey Operating
STREET _____
CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X MIKE THARP

SIGNATURE X Mike Tharp

Thank You!!!

CEMENT
AMOUNT ORDERED 85 cu 60' 40' 4 1/4
Flt Seal, 150% class H + 10% 59L
6# Kolseal + .8% FL160 + 1/4# Proseal

COMMON <u>51x "A"</u>	@ <u>15.45</u>	<u>787.95</u>
POZMIX <u>345x</u>	@ <u>8.00</u>	<u>272.00</u>
GEL <u>35x</u>	@ <u>20.80</u>	<u>62.40</u>
CHLORIDE	@	
ASC	@	
<u>Class "H" 150</u>	@ <u>16.75</u>	<u>2512.50</u>
<u>Gyp-seal 145x</u>	@ <u>29.20</u>	<u>408.80</u>
<u>Salt 175x</u>	@ <u>12.00</u>	<u>204.00</u>
<u>Kol-seal 900#</u>	@ <u>.89</u>	<u>801.00</u>
<u>Fl-160 113#</u>	@ <u>13.30</u>	<u>1,502.90</u>
<u>Flt-seal 59#</u>	@ <u>2.20</u>	<u>129.80</u>

HANDLING 2355x @ 2.40 564.00
MILEAGE 2355x X 6X.10 = 352.50

TOTAL 7,597.85

SERVICE

DEPTH OF JOB <u>5185'</u>		
PUMP TRUCK CHARGE		<u>2185.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>15</u>	@ <u>7.00</u>	<u>105.00</u>
MANIFOLD	@	
<u>Headrents</u>	@	

TOTAL 2,290.00

PLUG & FLOAT EQUIPMENT

<u>4 1/2</u>		
<u>1-DFV Plug + Shoe</u>	@ <u>205.00</u>	<u>205.00</u>
<u>1-Load down plug</u>	@ <u>145.00</u>	<u>145.00</u>
<u>14-Tbx 2 1/2 hrs</u>	@ <u>37.80</u>	<u>529.20</u>
<u>24-Scratchers</u>	@ <u>55.65</u>	<u>1,335.60</u>

TOTAL 2,214.80

SALES TAX (If Any) _____

TOTAL CHARGES 2,214.80

DISCOUNT 200 IF PAID IN 30 DAYS

KCC
SEP 21 2010
CONFIDENTIAL

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SEP 21 2010
KCC WICHITA

ALLIED CEMENTING CO., LLC. 041500

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

SERVICE POINT:
Medicine Lodge, KS

DATE <i>05-21-10</i>	SEC <i>31</i>	TWP <i>34s</i>	RANGE <i>11W</i>	CALLED OUT	ON LOCATION	JOB START <i>7:30am</i>	JOB FINISH <i>8:00am</i>
LEASE <i>M. Iker</i>	WELL # <i>3</i>	LOCATION <i>Medicine Lodge, KS Spn 281,</i>			COUNTY <i>Barber</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <input checked="" type="radio"/> OLD		14m, Epinto					

CONTRACTOR *Val #3* OWNER *Woolsey Oper.*

TYPE OF JOB *Surface*
 HOLE SIZE *14 3/4* T.D. *227* CEMENT AMOUNT ORDERED *245 sx "A" + 3% cc + 2% gel*
 CASING SIZE *10 7/8* DEPTH *227*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH

PRES. MAX *250* MINIMUM *-* COMMON *A 245 sx @ 15 45 3785⁰⁰*
 MEAS. LINE SHOE JOINT *NA* POZMIX @
 CEMENT LEFT IN CSG. *20'* GEL *5 sx @ 20⁰⁰ 104⁰⁰*
 PERFS. CHLORIDE *9 sx @ 58⁰⁰ 523⁰⁰*
 DISPLACEMENT *20 Bbls Fresh H₂O* ASC @

EQUIPMENT
 PUMP TRUCK CEMENTER *D. Felia*
 # *360-265* HELPER *M. Thimesch*
 BULK TRUCK
 # *364* DRIVER *R. Gilley*
 BULK TRUCK
 # DRIVER

WELL FILE

Regulatory Correspondence
 Orig. Comp Workover
 Operation

REMARKS: tests / Meters HANDLING *245* @ *240 588⁰⁰*
 MILEAGE *245/10/15* @ *367⁰⁰*
 TOTAL *5368⁰⁰*

Pipe on Btm, Break Circ, Amp Spacers Mix
 245 sx A cement Blend Stop Pump Start
 Disp. w/ Fresh H₂O, ~~Stop Pump~~ Wash up
 Truck & Cires, Slawbata, Stop Pump at
 20 Bbls, Shut in Cement Div Circ

SERVICE

DEPTH OF JOB *227*
 PUMP TRUCK CHARGE *1018⁰⁰*
 EXTRA FOOTAGE @
 MILEAGE *N/A* @ *7⁰⁰ 105⁰⁰*
 MANIFOLD *N/A* @
 @
 @

CHARGE TO: *Woolsey Oper.*
 STREET _____
 CITY _____ STATE _____ ZIP _____
 TOTAL *1123⁰⁰*

PLUG & FLOAT EQUIPMENT

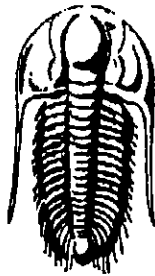
NONE @
 @
 @
 @
 @

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *MIKE THARP*
 SIGNATURE *[Signature]*
 SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

KCC
 SEP 21 2010
 CONFIDENTIAL

RECEIVED
 SEP 21 2010
 KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Company**

125 N Market
Wichita KS 67202

ATTN: Bill Klaver

31/34s/11w Barber KS

Miller #3

Start Date: 2010.05.26 @ 10:00:53

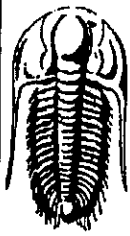
End Date: 2010.05.26 @ 21:26:33

Job Ticket #: 36187 DST #: 1

KCC
SEP 29 2010
CONFIDENTIAL

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

RECEIVED
SEP 29 2010
KCC WICHITA



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

Job Ticket: 36187

DST#: 1

ATTN: Bill Klaver

Test Start: 2010.05.26 @ 10:00:53

GENERAL INFORMATION:

Formation: **Mississippi**

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

Time Tool Opened: 13:42:03

Time Test Ended: 21:26:33

Test Type: **Conventional Bottom Hole**

Tester: **Kevin Taylor**

Unit No: **31**

Interval: **4638.00 ft (KB) To 4776.00 ft (KB) (TVD)**

Reference Elevations: **1371.00 ft (KB)**

Total Depth: **4776.00 ft (KB) (TVD)**

1363.00 ft (CF)

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

KB to GR/CF: **8.00 ft**

Serial #: **8017** Inside

Press@RunDepth: **53.77 psig @ 4639.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.05.26**

End Date: **2010.05.26**

Last Calib.: **2010.05.26**

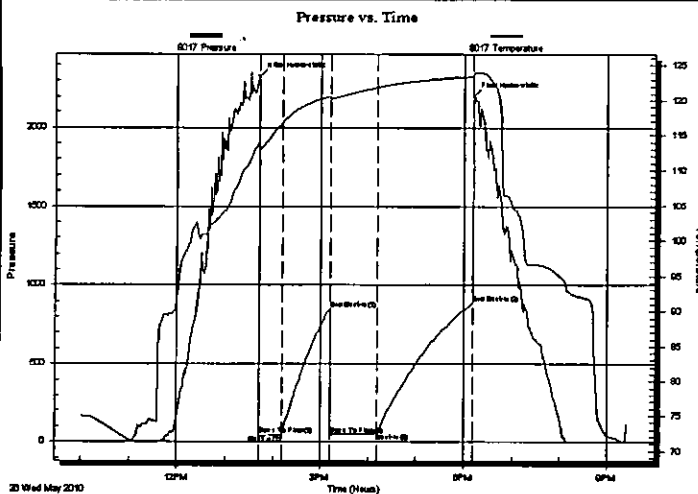
Start Time: **10:00:58**

End Time: **21:26:32**

Time On Btm: **2010.05.26 @ 13:41:43**

Time Off Btm: **2010.05.26 @ 18:11:43**

TEST COMMENT: I.F. Strong Blow B.O.B. 6 Min
I.S.I. Bled Off 5 Min No Blow
F.F. Strong Blow B.O.B. 20 Sec
F.S.I. Bled Off 5 Min No Blow



PRESSURE SUMMARY

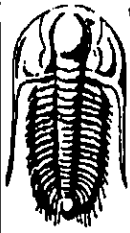
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.05	114.07	Initial Hydro-static
1	46.49	113.30	Open To Flow (1)
30	45.10	116.79	Shut-In(1)
90	849.58	120.56	End Shut-In(1)
90	41.79	120.26	Open To Flow (2)
150	53.77	121.89	Shut-In(2)
270	888.59	123.39	End Shut-In(2)
270	2202.39	123.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	SGCM 2%G 98%M	0.73
0.00	450 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

Job Ticket: 36187

DST#: 1

ATTN: Bill Klaver

Test Start: 2010.05.26 @ 10:00:53

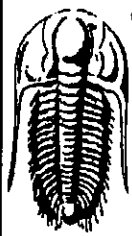
Tool Information

Drill Pipe:	Length: 4493.00 ft	Diameter: 3.88 inches	Volume: 65.71 bbl	Tool Weight: 2100.00 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: 121.00 ft	Diameter: 2.75 inches	Volume: 0.89 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 66.60 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4638.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	138.00 ft			
Tool Length:	166.00 ft			
Number of Packers:	2	Diameter: inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4615.00	
Hydraulic tool	5.00			4620.00	
Jars	5.00			4625.00	
Safety Joint	3.00			4628.00	
Packer	5.00			4633.00	28.00 Bottom Of Top Packer
Packer	5.00			4638.00	
Stubb	1.00			4639.00	
Recorder	0.00	8017	Inside	4639.00	
Recorder	0.00	8352	Outside	4639.00	
Perforations	5.00			4644.00	
Change Over Sub	1.00			4645.00	
Blank Spacing	93.00			4738.00	
Change Over Sub	1.00			4739.00	
Perforations	34.00			4773.00	
Bullnose	3.00			4776.00	138.00 Bottom Packers & Anchor

Total Tool Length: 166.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

Job Ticket: 36187

DST#: 1

ATTN: Bill Klaver

Test Start: 2010.05.26 @ 10:00:53

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	SGCM 2%G 98%M	0.735
0.00	450 GIP	0.000

Total Length: 100.00 ft

Total Volume: 0.735 bbl

Num Fluid Samples: 0

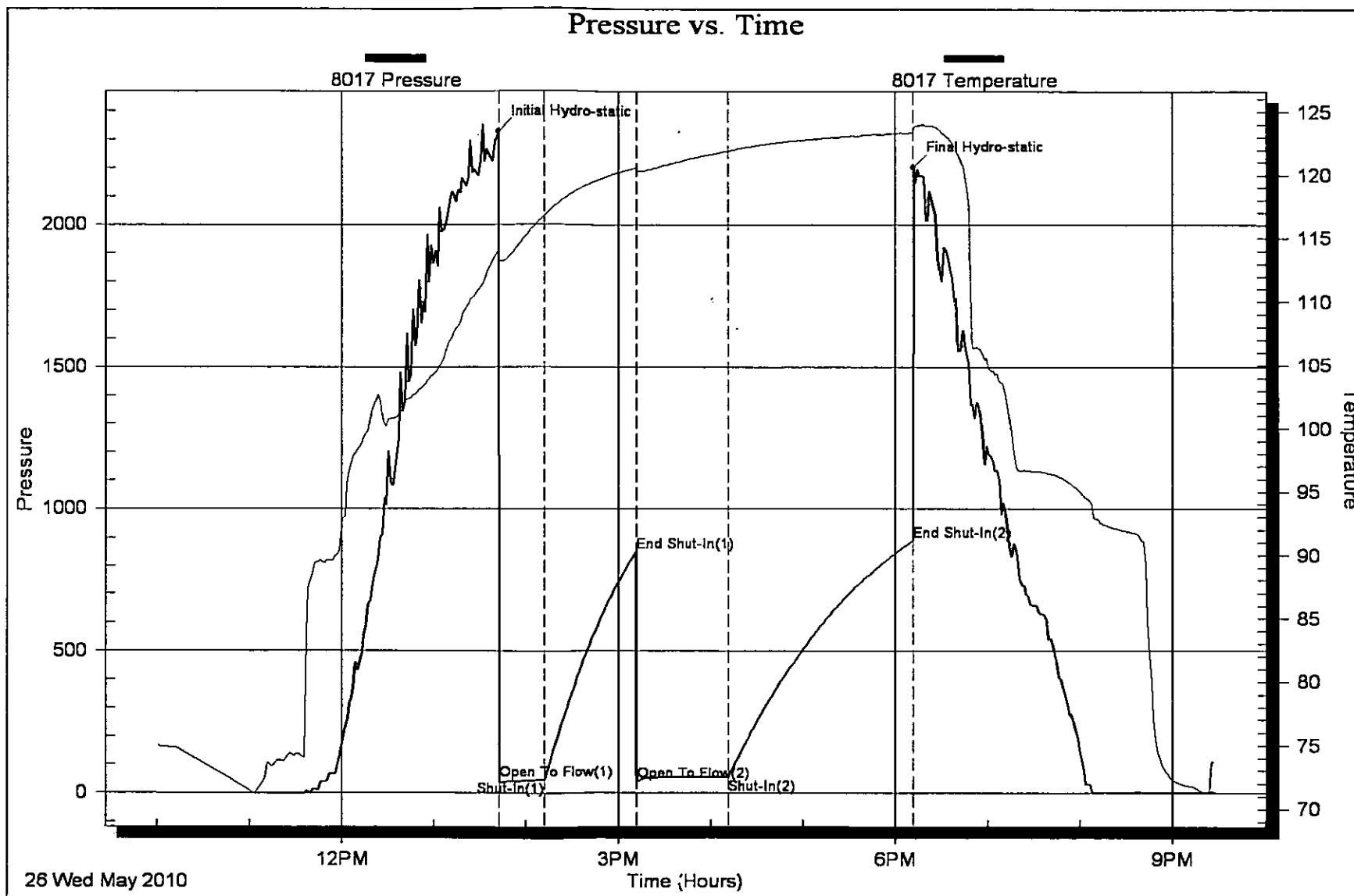
Num Gas Bombs: 0

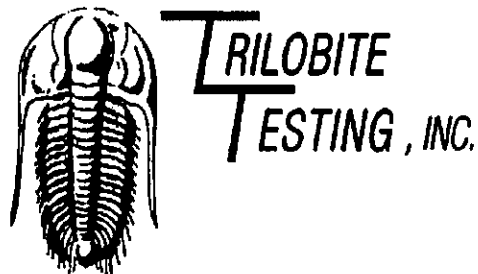
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Company**

125 N Market
Wichita KS 67202

ATTN: Bill Klaver

31/34s/11w Barber KS

Miller #3

Start Date: 2010.05.29 @ 01:33:39

End Date: 2010.05.29 @ 11:13:44

Job Ticket #: 36188 DST #: 2

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

Job Ticket: 36188 DST#: 2

ATTN: Bill Klaver

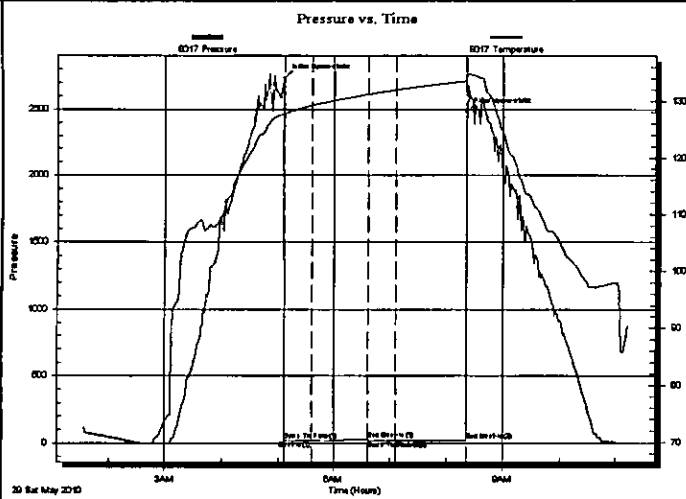
Test Start: 2010.05.29 @ 01:33:39

GENERAL INFORMATION:

Formation: **Sim pson**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 05:06:34
 Time Test Ended: 11:13:44
 Interval: **5340.00 ft (KB) To 5350.00 ft (KB) (TVD)**
 Total Depth: **5350.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Kevin Taylor**
 Unit No: **31**
 Reference Elevations: **1371.00 ft (KB)**
1363.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017 Inside
 Press@RunDepth: **20.49 psig @ 5341.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.05.29** End Date: **2010.05.29** Last Calib.: **2010.05.29**
 Start Time: **01:33:39** End Time: **11:13:43** Time On Btm: **2010.05.29 @ 05:06:24**
 Time Off Btm: **2010.05.29 @ 08:20:54**

TEST COMMENT: I.F. Very Weak Surface Blow Died Quickly.
 I.S.I. No Blow
 F.F. No Blow
 F.S.I. No Blow



PRESSURE SUMMARY

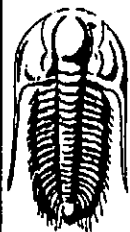
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2731.92	127.88	Initial Hydro-static
1	20.88	126.57	Open To Flow (1)
30	21.44	129.29	Shut-In(1)
90	25.62	131.23	End Shut-In(1)
91	21.96	131.23	Open To Flow (2)
120	20.49	132.00	Shut-In(2)
195	23.04	133.56	End Shut-In(2)
195	2481.49	134.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Oil Spotted Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

Job Ticket: 36188 DST#: 2

ATTN: Bill Klaver

Test Start: 2010.05.29 @ 01:33:39

Tool Information

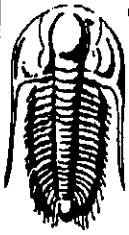
Drill Pipe:	Length: 5214.00 ft	Diameter: 3.88 inches	Volume: 76.25 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.75 inches	Volume: 0.89 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 77.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	5340.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5317.00	
Hydraulic tool	5.00			5322.00	
Jars	5.00			5327.00	
Safety Joint	3.00			5330.00	
Packer	5.00			5335.00	28.00 Bottom Of Top Packer
Packer	5.00			5340.00	
Stubb	1.00			5341.00	
Recorder	0.00	8017	Inside	5341.00	
Recorder	0.00	8352	Outside	5341.00	
Perforations	6.00			5347.00	
Bullnose	3.00			5350.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

Job Ticket: 36188

DST#: 2

ATTN: Bill Klaver

Test Start: 2010.05.29 @ 01:33:39

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.16 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6600.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

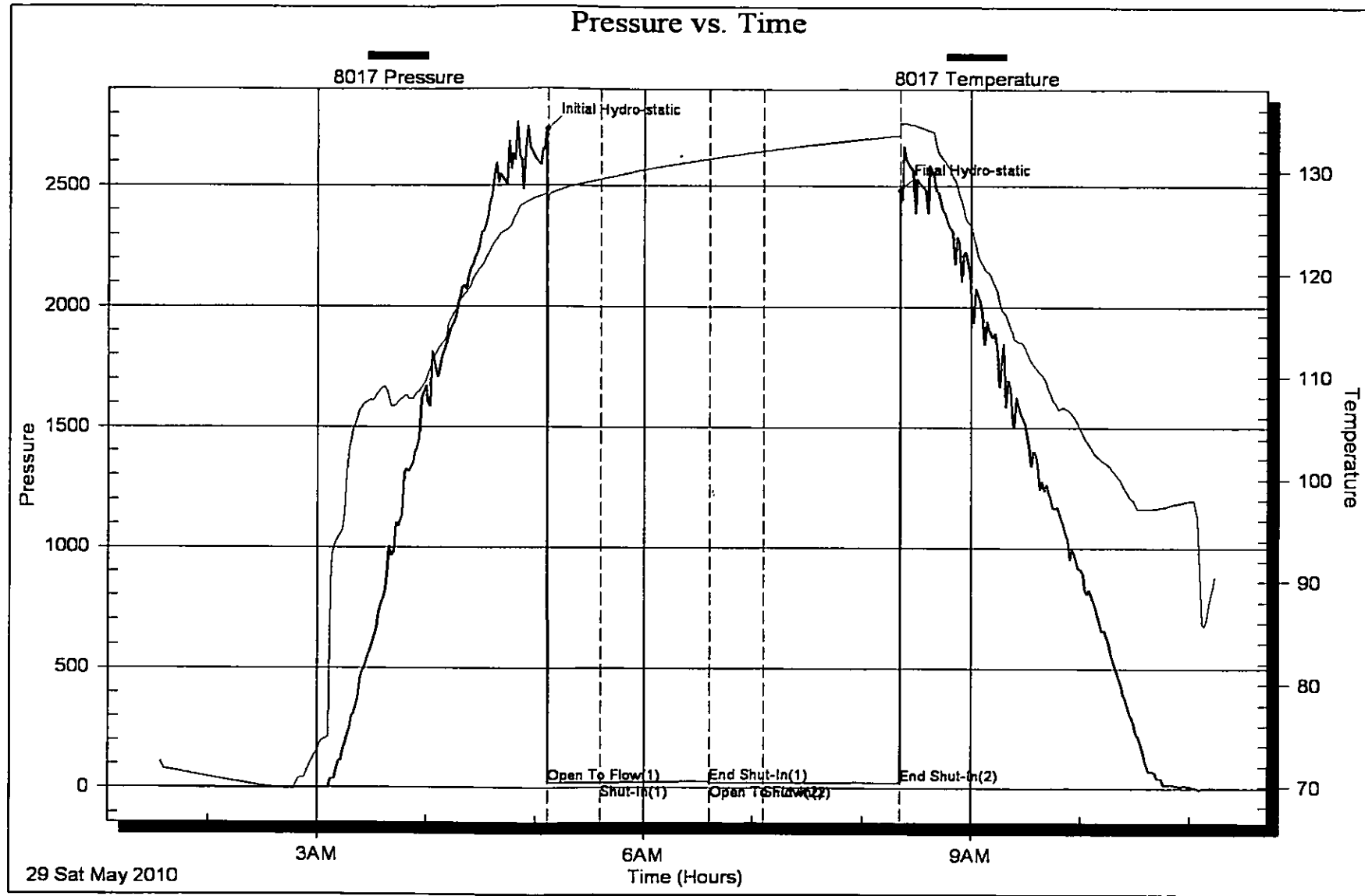
Length ft	Description	Volume bbl
2.00	Oil Spotted Mud	0.015

Total Length: 2.00 ft Total Volume: 0.015 bbl

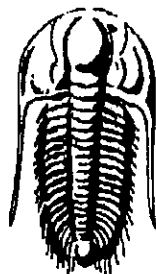
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



29 Sat May 2010



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Company**

125 N Market
Wichita KS 67202

ATTN: Bill Klaver

31/34s/11w Barber KS

Miller #3

Start Date: 2010.05.30 @ 02:23:00

End Date: 2010.05.30 @ 12:28:30

Job Ticket #: 36189 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Woolsey Operating Company

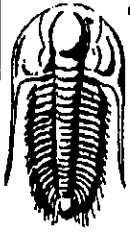
Miller #3

31/34s/11w Barber KS

DST # 3

McLish Sand

2010.05.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

ATTN: Bill Klaver

Job Ticket: 36189

DST#: 3

Test Start: 2010.05.30 @ 02:23:00

GENERAL INFORMATION:

Formation: **McLish Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:10

Time Test Ended: 12:28:30

Test Type: Conventional Bottom Hole

Tester: Kevin Taylor

Unit No: 31

Interval: **5352.00 ft (KB) To 5375.00 ft (KB) (TVD)**

Total Depth: 5375.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1371.00 ft (KB)

1363.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8017**

Inside

Press@RunDepth: 41.99 psig @ 5353.00 ft (KB)

Start Date: 2010.05.30

End Date:

2010.05.30

Capacity: 8000.00 psig

Last Calib.: 2010.05.30

Start Time: 02:23:05

End Time:

12:28:30

Time On Btm: 2010.05.30 @ 06:43:50

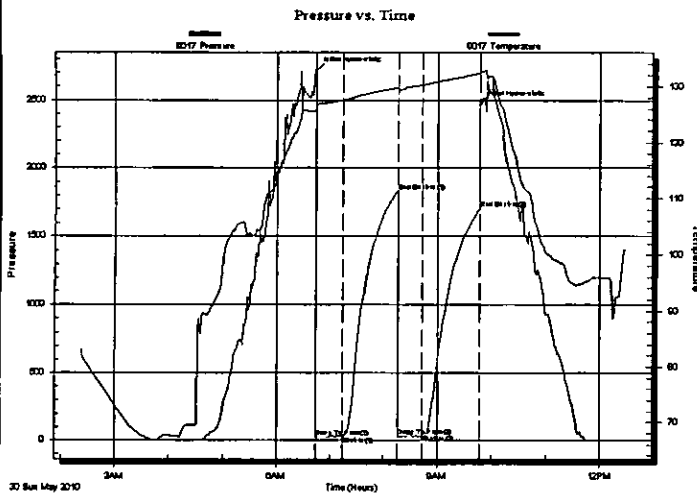
Time Off Btm: 2010.05.30 @ 09:47:10

TEST COMMENT: I.F. Weak Surface Blow Died In 70 Sec

I.S.I. No Blow

F.F. No Blow

F.S.I. No Blow



PRESSURE SUMMARY

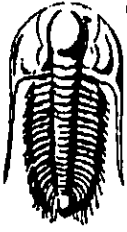
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2713.11	125.93	Initial Hydro-static
1	24.37	126.01	Open To Flow (1)
31	25.85	127.56	Shut-In(1)
92	1828.02	129.76	End Shut-In(1)
92	26.96	128.73	Open To Flow (2)
120	41.99	130.26	Shut-In(2)
183	1697.99	132.31	End Shut-In(2)
184	2466.29	132.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	SOCM w/Gas Oder 1%O 99%M	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

ATTN: Bill Klaver

Job Ticket: 36189

DST#: 3

Test Start: 2010.05.30 @ 02:23:00

Tool Information

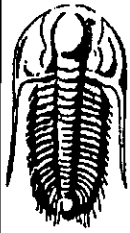
Drill Pipe:	Length: 5152.00 ft	Diameter: 3.88 inches	Volume: 75.34 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.75 inches	Volume: 1.33 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 76.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5352.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			5329.00	
Hydraulic tool	5.00			5334.00	
Jars	5.00			5339.00	
Safety Joint	3.00			5342.00	
Packer	5.00			5347.00	28.00 Bottom Of Top Packer
Packer	5.00			5352.00	
Stubb	1.00			5353.00	
Recorder	0.00	8017	Inside	5353.00	
Recorder	0.00	8352	Outside	5353.00	
Perforations	19.00			5372.00	
Perforations	3.00			5375.00	23.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

Miller #3

125 N Market
Wichita KS 67202

31/34s/11w Barber KS

Job Ticket: 36189

DST#: 3

ATTN: Bill Klaver

Test Start: 2010.05.30 @ 02:23:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 10.77 in³
Resistivity: ohm.m
Salinity: 5100.00 ppm
Filter Cake: 0.02 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
6.00	SOCM w/Gas Oder 1%O 99%M	0.044

Total Length: 6.00 ft Total Volume: 0.044 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

