

ORIGINAL

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SEP 01 2010

Form ACO-1  
October 2008  
Form Must Be Typed

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC WICHITA

9/1/12

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) **KCC**  
CONTRACTOR: License # 5822 **SEP 01 2010**  
Name: VAL ENERGY, INC.  
Wellsite Geologist: BILLY G. KLAVER **CONFIDENTIAL**  
Purchaser: PLAINS MARKETING / BLUESTEM 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.: \_\_\_\_\_  
05/04/2010 05/11/2010 06/02/2010  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 007-23539 00 00  
Spot Description: \_\_\_\_\_  
\_\_\_\_\_-NW-SE Sec. 16 Twp. 34 S. R. 11  East  West  
1980 Feet from  North /  South Line of Section  
1980 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: BARBER  
Lease Name: DIEL D Well #: 2  
Field Name: LANDIS  
Producing Formation: MISSISSIPPIAN  
Elevation: Ground: 1331 Kelly Bushing: 1341  
Total Depth: 5210 Plug Back Total Depth: 4936  
Amount of Surface Pipe Set and Cemented at: 218 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.

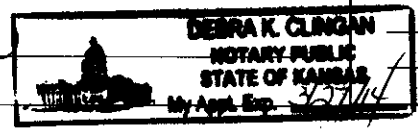
Drilling Fluid Management Plan AKINS 9-a-10  
(Data must be collected from the Reserve Pit)  
Chloride content: 18,000 ppm Fluid volume: 1200 bbls  
Dewatering method used: Haul free fluids and allow to dry  
Location of fluid disposal if hauled offsite:  
Operator Name: WOOLSEY OPERATING COMPANY, LLC  
Lease Name: Harbaugh 2 SWD License No.: 33168  
Quarter \_\_\_\_\_ Sec. 32 Twp. 33 S. R. 11  East  West  
County: Barber Docket No.: D - 30333

**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 1, 2010  
Exploration and Production Manager  
Subscribed and sworn to before me this 1st day of September,  
20 10.

Notary Public: Debra K. Clingan  
Date Commission Expires: March 27, 2014



**KCC Office Use ONLY**

Letter of Confidentiality Received 9/1/10 - 9/1/12  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: WOOLSEY OPERATING COMPANY, LLC Lease Name: DIEL D Well #: 2  
 Sec. 16 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	1767 - 426
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Douglas	3674 - 2333
List All E. Logs Run:		Hertha	4361 - 3020
Neutron Density		Mississippian	4584 - 3243
Dual Induction		Viola	4892 - 3551
Cement Bond		Simpson	5010 - 3669
		Arbuckle	DNP

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# / ft	218	Class A	240	2% gel, 3% cc
Production	7 7/8"	4 1/2"	10.5# / ft	4992	60/40 poz	50	4% gel, 1/4# Floeal
					Class H	140	10% salt, 10% Gypseal, 1/4# Floeal, 6# Koiseal, ClaPro & .8% FL160

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 Miss zone 4568'-4572', 4584'-4589' & 4600'-4636'	ACID: 4050 gal 10% MIRA	4568' -
2	Perf Miss zone 4642'-4674'	FRAC: 367,700 gal treated 2% KCL wtr, 133,500# 30/70 sd, 25,000% 16/30 sd, & 12,000# 16/30 resin coated sd	4674' OA

TUBING RECORD: Size: 2 3/8" Set At: 4552' Packer At: n/a Liner Run:  Yes  No

Date of First, Resumed Production, S/WD or Enhr. 7/1/2010 Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. <u>19</u>	Gas Mcf <u>80</u>	Water Bbls. <u>100</u>	Gas-Oil Ratio <u>4211 : 1</u>	Gravity <u>23.6</u>
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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 (Specify)	PRODUCTION INTERVAL: <u>4568' - 4674' OA</u>
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# ALLIED CEMENTING CO., LLC. 04149

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

SERVICE POINT:  
*Medicine Lodge*

DATE <i>05-04-10</i>	SEC. <i>16</i>	TWP. <i>34s</i>	RANGE <i>11w</i>	CALLED OUT	ON LOCATION	JOB START <i>10:00 AM</i>	JOB FINISH <i>10:30</i>
LEASE <i>Diel D</i>	WELL# <i>2</i>	LOCATION <i>281 1/2 Scott Canyon Rd, 2 1/2 E,</i>		COUNTY <i>Barber</i>	STATE <i>KS</i>		
OLD OR NEW (Circle one) <i>NEW</i>			s/into				

CONTRACTOR *Val #3*

TYPE OF JOB *Surface*

HOLE SIZE *4 3/4* T.D. *218*

CASING SIZE *10 3/4* DEPTH *218*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX *250* MINIMUM *-*

MEAS. LINE SHOE JOINT *N/A*

CEMENT LEFT IN CSG. *20'*

PERFS.

DISPLACEMENT *19 1/4 Bbls Fresh H<sub>2</sub>O*

OWNER *Woolsey Oper.*

CEMENT AMOUNT ORDERED *240 5x "A" + 3% cc + 2%*

COMMON *A 240 5x @ 15.45 370*

POZMIX @

GEL *5 5x @ 20.80 104*

CHLORIDE *9 5x @ 58.20 523*

ASC @

EQUIPMENT

PUMP TRUCK CEMENTER *D. Felio*

# *360-265* HELPER *M. Thimesch*

BULK TRUCK # *21-251* DRIVER *R. Gilley*

BULK TRUCK # DRIVER

### WELL FILE

Regulatory Correspondence @

Drig Comp Workovers @

Tests / Meters Operations @

HANDLING *240 @ 2.40 576*

MILEAGE *240 / 10 / 15 360*

TOTAL *527*

**REMARKS:**

*Pipe on Bttm, Break Circ., Pump Spacers, Mix 240 5x "A" - 3% cement, Start Disp. w/ Fresh H<sub>2</sub>O, See increase in P.S. Slow Rate, Stop Pump, Shut in, Cement D. & Circ.*

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SEP 01 2010

KCC WICHITA

CHARGE TO: *Woolsey Oper.*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB *218'*

PUMP TRUCK CHARGE *1018.00*

EXTRA FOOTAGE @

MILEAGE *15 @ 7.00 105*

MANIFOLD @

TOTAL *1123*

**PLUG & FLOAT EQUIPMENT**

*None* @

@

@

@

TOTAL \_\_\_\_\_

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 01 2010  
CONFIDENTIAL

# ALLIED CEMENTING CO., LLC. 042050

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

SERVICE POINT: Nebrinledge

DATE <u>5-12-2010</u>	SEC <u>16</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	CALLED OUT <u>11:00 am</u>	ON LOCATION <u>2:30 pm</u>	JOB START <u>3:00 pm</u>	JOB FINISH <u>4:00 pm</u>
LEASE <u>Prod</u>	WELL # <u>#2</u>	LOCATION <u>South of MML for</u>			COUNTY <u>Garber</u>	STATE <u>Kansas</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>Scott Canyon Rd. 2 1/2 East 5/10th</u>				

CONTRACTOR <u>Val # 3</u>	OWNER <u>Woolsey Operating</u>
TYPE OF JOB <u>Production</u>	CEMENT
HOLE SIZE <u>7 7/8"</u>	T.D. <u>5192'</u>
CASING SIZE <u>4 1/2 x 10.5"</u>	DEPTH <u>4992'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>1600</u>	MINIMUM <u>—</u>
MEAS. LINE	SHOE JOINT <u>40'</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>79 Bbls 2% KCL water</u>	

AMOUNT ORDERED <u>8 Cals Clapro</u>	
<u>85 sx 60:40 = 4% Gel + 1/4" Floseal</u>	
<u>140 sx Class H + 10% salt + 6" Tolseal</u>	
<u>• 8% FI-160 + 1/4" Floseal</u>	
COMMON <u>51 sx @ 15.45</u>	<u>787.95</u>
POZMIX <u>34 sx @ 8.00</u>	<u>272.00</u>
GEL <u>3 sx @ 20.00</u>	<u>62.40</u>
CHLORIDE	@
ASC	@
<u>H 140 sx @ 16.25</u>	<u>2345.00</u>
<u>Bypseal 13 sx @ 29.00</u>	<u>379.00</u>
<u>Salt 15 sx @ 12.00</u>	<u>180.00</u>
<u>Kolseal 840# @ .89</u>	<u>747.60</u>
<u>FI-160 105# @ 13.00</u>	<u>1396.50</u>
<u>Clapro 8 Cal @ 31.25</u>	<u>250.00</u>
<u>Floseal 56# @ 2.50</u>	<u>140.00</u>
HANDLING <u>225</u>	@ <u>2.40</u>
MILEAGE <u>225 / 10/15</u>	@ <u>2.40</u>
	<u>540.00</u>
	<u>337.50</u>
	<u>7438.50</u>

EQUIPMENT	
PUMP TRUCK # <u>360-265</u>	CEMENTER <u>Carl Balding</u>
BULK TRUCK # <u>353-210</u>	HELPER <u>Matt Thimesch</u>
BULK TRUCK #	DRIVER <u>Ron W. W. L. FILL</u>
BULK TRUCK #	DRIVER
	Regulatory Correspondence
	Drig Comp Workovers
	Tests / Meters Operations

REMARKS:  
Run 4992' 4 1/2" casing drop ball +  
break circulation circulate 1 hour.  
plug R+M hole with 35 sx 60:40:4  
pump 50 sx 60:40:4 + 1/4" Floseal  
scavenger cement + 140 sx Class H +  
10% Bypseal 10% salt + 6" Tolseal + 8% FI-160  
+ 1/4" Floseal, wash pump + lines +  
Release plug. Displace with 79 Bbls 2%  
KCL water pump plug + float hold.

SERVICE	
DEPTH OF JOB <u>4992'</u>	
PUMP TRUCK CHARGE	<u>2185.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>15</u>	@ <u>7.00</u>
MANIFOLD	@
	@
	@
	<u>105.00</u>
	<u>2290.00</u>

CHARGE TO: Woolsey Operating

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT	
<u>1 AFU float shoe</u>	@ <u>205.00</u>
<u>1 Latch Down plug</u>	@ <u>145.00</u>
<u>11 - 100 ballizers</u>	@ <u>37.00</u>
<u>22 Scratcher s</u>	@ <u>55.00</u>
	@
	<u>1168.00</u>
	<u>1934.00</u>

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.

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 2290.00

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

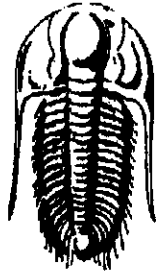
PRINTED NAME MIKE THARP

SIGNATURE M. Tharp

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SEP 01 2010

KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co., LLC**

125 N. Market, Ste. 1000  
Wichita, KS 67202

ATTN: Bill Klaver

**16-34s-11w Barber KS**

**Diel D #2**

Start Date: 2010.05.09 @ 00:50:31

End Date: 2010.05.09 @ 10:05:31

Job Ticket #: 36872                      DST #: 1

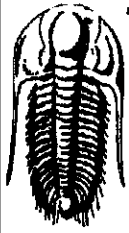
**KCC  
SEP 01 2010  
CONFIDENTIAL**

**RECEIVED  
SEP 01 2010  
KCC WICHITA**

Trilobite Testing, Inc

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

**MAY 24 2010**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Woolsey Operating Co., LLC

**Diel D #2**

125 N. Market, Ste. 1000  
Wichita, KS 67202

**16-34s-11w Barber KS**

ATTN: Bill Klaver

Job Ticket: 36872      **DST#: 1**  
Test Start: 2010.05.09 @ 00:50:31

## GENERAL INFORMATION:

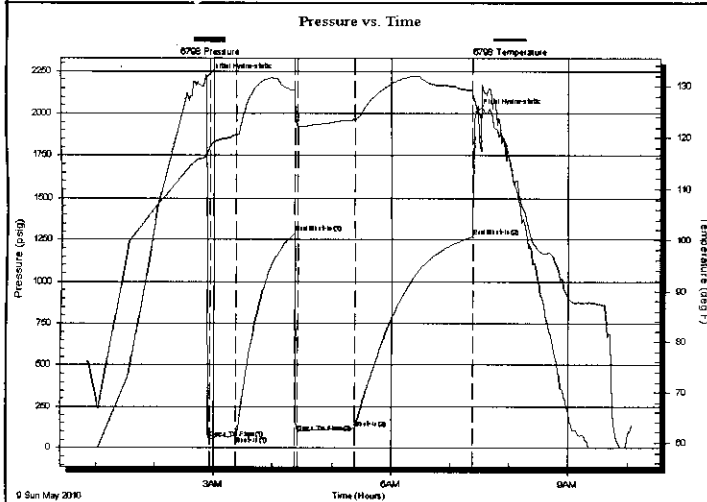
Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 02:56:01  
 Tester: Jerry Adams  
 Time Test Ended: 10:05:31  
 Unit No: 45  
 Interval: **4510.00 ft (KB) To 4635.00 ft (KB) (TVD)**  
 Reference Elevations: 1341.00 ft (KB)  
 Total Depth: 4635.00 ft (KB) (TVD)  
 1331.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 10.00 ft

## Serial #: 6798

Inside

Press@RunDepth: 114.08 psig @ 4514.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.05.09      End Date: 2010.05.09      Last Calib.: 2010.05.09  
 Start Time: 00:50:32      End Time: 10:05:31      Time On Btm: 2010.05.09 @ 02:52:01  
 Time Off Btm: 2010.05.09 @ 07:26:31

**TEST COMMENT:** IF: Strong blow . B.O.B. in 45 secs. GTS in 25 mins. T.S.T.M.  
 IS: No blow .  
 FF: Strong blow . B.O.B. immediately. Gauged gas. (see gas flow report.)  
 FS: Weak blow . Built to 1/2". Dead in 78 mins.



## PRESSURE SUMMARY

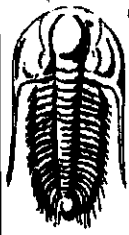
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.99	116.56	Initial Hydro-static
4	54.47	118.30	Open To Flow (1)
30	68.47	120.68	Shut-In(1)
91	1290.66	129.19	End Shut-In(1)
94	90.69	122.23	Open To Flow (2)
151	114.08	123.55	Shut-In(2)
271	1269.39	129.28	End Shut-In(2)
275	2006.41	125.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	SGCM 5%g 95%m	2.10
50.00	SG&OCM 5%g 3%o 92%m	0.70
0.00	4296' GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.50	34.74
Last Gas Rate	0.25	1.25	24.83
Max. Gas Rate	0.25	7.50	34.74



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Woolsey Operating Co., LLC

**Diel D #2**

125 N. Market, Ste. 1000  
Wichita, KS 67202

**16-34s-11w Barber KS**

Job Ticket: 36872

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2010.05.09 @ 00:50:31

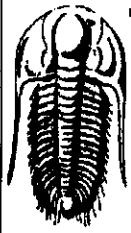
### Tool Information

Drill Pipe:	Length: 4496.00 ft	Diameter: 3.80 inches	Volume: 63.07 bbl	Tool Weight: 2700.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 63.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4510.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	125.00 ft			
Tool Length:	153.00 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			4487.00	
Hydraulic tool	5.00			4492.00	
Jars	5.00			4497.00	
Safety Joint	3.00			4500.00	
Packer	5.00			4505.00	28.00 Bottom Of Top Packer
Packer	5.00			4510.00	
Stubb	1.00			4511.00	
Perforations	2.00			4513.00	
Change Over Sub	1.00			4514.00	
Recorder	0.00	6798	Inside	4514.00	
Recorder	0.00	8367	Outside	4514.00	
Blank Spacing	93.00			4607.00	
Change Over Sub	1.00			4608.00	
Perforations	24.00			4632.00	
Bullnose	3.00			4635.00	125.00 Bottom Packers & Anchor

**Total Tool Length: 153.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Woolsey Operating Co., LLC

**Diel D #2**

125 N. Market, Ste. 1000  
Wichita, KS 67202

**16-34s-11w Barber KS**

Job Ticket: 36872

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2010.05.09 @ 00:50:31

**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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 202.69 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.21 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
150.00	SGCM 5%g 95%m	2.104
50.00	SG&OCM 5%g 3%o 92%m	0.701
0.00	4296' GIP	0.000

Total Length: 200.00 ft      Total Volume: 2.805 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

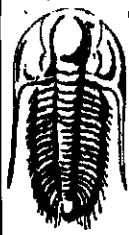
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Woolsey Operating Co., LLC

**Diel D #2**

125 N. Market, Ste. 1000  
Wichita, KS 67202

**16-34s-11w Barber KS**

ATTN: Bill Klaver

Job Ticket: 36872

**DST#: 1**

Test Start: 2010.05.09 @ 00:50:31

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	10	0.25	7.50	34.74
2	10	0.25	7.50	34.74
2	20	0.25	3.00	27.60
2	30	0.25	1.50	25.22
2	40	0.25	1.25	24.83
2	50	0.25	1.25	24.83

