

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32593
Name: dan haffner
Address 1: rr2 box49
Address 2: _____
City: hoxie State: ks Zip: 67740 + _____
Contact Person: dan haffner
Phone: (785) 657-1299
CONTRACTOR: License # 33350
Name: southwind drilling
Wellsite Geologist: bruce ard
Purchaser: _____

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 #: _____

4/8/11 4/18/11 4/18/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 179-21279-00-00
Spot Description: _____
_____ nw sw ne Sec. 20 Twp. 9 S. R. 27 East West
1,600 Feet from North / South Line of Section
2,190 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: sheridan
Lease Name: haffner Well #: 2-20
Field Name: lombardy
Producing Formation: _____
Elevation: Ground: 2744 Kelly Bushing: 2754
Total Depth: 4500 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 282 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 17000 ppm Fluid volume: 1100 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____
County: _____ Permit #: _____
RECEIVED
MAY 22 2012
KCC WICHITA
RECEIVED
MAY 30 2012
KCC WICHITA

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: Dan Haffner
Title: _____ Date: 5-28-12

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: DJG Date: 5/22/12

Operator Name: dan haffner Lease Name: haffner Well #: 2-20
 Sec. 20 Twp. 9 S. R. 27 East West County: sheridan

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: dual induction, micro, sonic,	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>anh</td> <td>2347</td> <td>407</td> </tr> <tr> <td>heeb</td> <td>3861</td> <td>-1107</td> </tr> <tr> <td>toronto</td> <td>3882</td> <td>-1128</td> </tr> <tr> <td>lansing</td> <td>3897</td> <td>-1143</td> </tr> <tr> <td>bkc</td> <td>4122</td> <td>-1368</td> </tr> <tr> <td>cherokee</td> <td>4452</td> <td>-1620</td> </tr> <tr> <td>miss</td> <td>4464</td> <td>-1710</td> </tr> </tbody> </table>	Name	Top	Datum	anh	2347	407	heeb	3861	-1107	toronto	3882	-1128	lansing	3897	-1143	bkc	4122	-1368	cherokee	4452	-1620	miss	4464	-1710
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CASING RECORD <input 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	12/1/2	8/5/8	20	282	com	210	3%cc2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	4500	com	230	60/40com / pozmix/ 4%gel

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED MAY 22 2012 KCC WICHITA </div>	

TUBING RECORD: Size: Set At: Packer At: Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____								
Estimated Production Per 24 Hours	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Oil</td> <td style="width:15%;">Bbls.</td> <td style="width:15%;">Gas</td> <td style="width:15%;">Mcf</td> <td style="width:15%;">Water</td> <td style="width:15%;">Bbls.</td> <td style="width:15%;">Gas-Oil Ratio</td> <td style="width:15%;">Gravly</td> </tr> </table>	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravly
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 22, 2012

Dan Haffner
RR2 BOX 49
HOXIE, KANSAS 67740

Dear Mr.Haffner,

You had recently sent in an ACO-1 form with hard copies of the logs. The Well Logs must be submitted electronically. Operators or the logging company need to E-MAIL logs in LAS and image (TIF/PDF) format to: kcc-well-logs@kcc.ks.gov .

The Conservation Division of the KCC will soon require all operators to electronically file all forms that are available on KOLAR. Mandatory online form filing will be phased-in as follows:

- Beginning July 1, 2012, ALL operators who have filed a Master Electronic Filing Certification for KOLAR will be required to file ALL available forms through KOLAR.
- Beginning January 1, 2013, ALL operators will be required to file ALL available forms through KOLAR.
- After the above dates, paper submissions of forms that are available on KOLAR will no longer be accepted. Such form submissions will be sent back to the operator without being approved.
- Additional forms will become mandatory as they become available on KOLAR.

If you have any questions feel free to call me 316-337-6209.

Thank You,

Deanna Garrison
Production Department

Schippers Oilfield Services LLC
 RR 1 Box 90D
 Hoxie, KS 67740



Date 4/13/2011
 Invoice # 497

Bill To
 Dan Haffner
 Hoxie, KS 67740

Lease/Service
 Haffner 2-20
 Surface

Haffner 2-20

Service Date 4/9/2011
 Due Date 5/13/2011
 Terms Net 30

Item	Description	Qty	Price	Amount
cement	common	210	14.55	3,055.50T
Gel	Bentonite	3	26.00	78.00T
chloride	calcium	6	52.00	312.00T
handling of materials	per sack	220	1.95	429.00
pump truck charge	pumping job	1	950.00	950.00
head rental	cementing head	1	100.00	100.00
Plug 8 5/8 wooden		1	79.00	79.00T

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 KCC WICHITA

TAKE 10% DISCOUNT IF PAID WITHIN 20 DAYS. DEDUCT FROM TOTAL.

Subtotal \$5,003.50
 Sales Tax (7.3%) \$257.29
 Total \$5,260.79
 Payments/Credits \$0.00
 Balance Due \$5,260.79

Schippers Oilfield Services LLC
 sosllc@ruraltel.net
 FAX: 785.675.9938

Cell: 785.675.8974
 Office: 785.675.9991

4734.71

Schippers Oilfield Services LLC
 RR 1 Box 90D
 Hoxie, KS 67740



Date 4/20/2011
 Invoice # 498

Bill To
 Dan Haffner
 Hoxie, KS 67740

Lease/Service
 Haffner 2-20
 Rotary Plug

Haffner 2-20

Service Date 4/18/2011
 Due Date 5/20/2011
 Terms Net 30

Item	Description	Qty	Price	Amount
cement	common	132	14.95	1973.00
Pozmix		92	8.50	782.00
Gel	Bentonite	8	26.00	208.00
Flo Seal		57.5	2.25	129.38
handling of materials	per sack	230	1.95	448.50
mileage and labor		10	20.70	207.00
pump truck charge	pumping job	1	1,350.00	1,350.00
pumptruck mileage	one way to location	10	6.50	65.00
Plug 8 5/8 wooden			79.00	79.00

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MAY 22 2012

KCC WICHITA

TAKE 10% DISCOUNT IF PAID WITHIN 20 DAYS. DEDUCT FROM TOTAL.

Subtotal \$5,242.28 ~~\$6,707.38~~
 Sales Tax (7.3%) 231.53 ~~\$328.49~~
 Total \$7,045.87
 Payments/Credits \$0.00
 Balance Due ~~\$7,045.87~~
 5,473.81

Schippers Oilfield Services LLC
 sosllc@ruraltel.net
 FAX: 785.675.9938

Cell: 785.675.8974
 Office: 785.675.9991

REMIT TO
RR 1 BOX 90 D
HOXIE KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

498

DATE <i>4/10/11</i>	SEC. <i>20</i>	RANGE/TWP. <i>9-27</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Hoffner</i>			WELL # <i>2-20</i>		COUNTY <i>FD</i>	STATE <i>KS</i>

CONTRACTOR <i>Goodland</i>	OWNER <i>Don Hoffner</i>		
TYPE OF JOB <i>Rotary PL</i>	CEMENT		
HOLE SIZE	T.D. <i>4500'</i>	AMOUNT ORDERED	<i>200</i>
CASING SIZE	DEPTH		
TUBING SIZE	DEPTH		
DRILL PIPE	DEPTH		
TOOL	DEPTH		
PRES. MAX	MINIMUM	COMMON	<i>132 @ 112</i>
DISPLACEMENT	SHOE JOINT	POZMIX	<i>7 @ 82</i>
CEMENT LEFT IN CSG.		GEL	<i>8 @ 26"</i>
PERFS		CHLORIDE	@
		ASC	@
EQUIPMENT			@
			@
PUMP TRUCK			@
#			@
BULK TRUCK			@
#			@
BULK TRUCK			@
#			@
		HANDLNG	<i>200 @ 72</i>
		MILEAGE	<i>10 @ 70 200</i>
			TOTAL

REMARKS	SERVICE <i>Rotary PL</i>	
<i>1st 75cu 2366</i>	DEPT OF JOB	@
<i>2nd 100cu 1482</i>	PUMP TRUCK CHARGE	@ <i>150</i>
<i>3rd 40cu 331</i>	EXTRA FOOTAGE	@
<i>4th 12cu 40</i>	MILEAGE <i>10</i>	@ <i>62 65</i>
<i>30cu Rot Hole</i>	MANIFOLD RECEIVED	@
<i>15cu Man + Haul</i>		@
	MAY 22 2012	TOTAL

CHARGE TO: <i>Don Hoffner</i>	STATE
STREET	ZIP
CITY	

KCC WICHITA

PLUG & FLOAT EQUIPMENT	
<i>8 1/2 PLUG</i>	@ <i>79</i>

REMIT TO
RR 1 BOX 90 D
HOXIE KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

497

DATE <i>4/9/11</i>	SEC. <i>20</i>	RANGE/TWP. <i>9-27</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Huffman</i>			WELL # <i>2-20</i>		COUNTY <i>20</i>	STATE

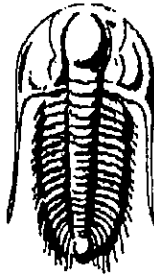
CONTRACTOR <i>Southern #1</i>	OWNER <i>Dan Huffman</i>		
TYPE OF JOB			
HOLE SIZE <i>12 1/4</i>	T.D. <i>282</i>	CEMENT	
CASING SIZE <i>8 7/8</i>	DEPTH <i>281</i>	AMOUNT ORDERED	
TUBING SIZE	DEPTH		
DRILL PIPE <i>4 1/2</i>	DEPTH		
TOOL	DEPTH		
PRES. MAX	MINIMUM	COMMON <i>210</i>	@ <i>142</i>
DISPLACEMENT <i>15 3/4</i>	SHOE JOINT	POZMIX	@
CEMENT LEFT IN CSG.		GEL	@ <i>26</i>
PERFS		CHLORIDE <i>6</i>	@ <i>52</i>
		ASC	@
EQUIPMENT			@
PUMP TRUCK			@
#			@
BULK TRUCK			@
#			@
BULK TRUCK			@
#			@
		HANDLNG <i>200</i>	@ <i>12</i>
		MILEAGE	@
			TOTAL

REMARKS	SERVICE <i>Surface</i>		
<i>Plug Poon @ 9:45 AM</i>	DEPT OF JOB	@	
	PUMP TRUCK CHARGE	@	<i>950.00</i>
	EXTRA FOOTAGE	@	
	MILEAGE	@	
<i>Circ Cement to P.</i>	MANIFOLD RECEIVED	@	<i>100.00</i>
	MAY 22 2012	@	
		TOTAL	

KCC WICHITA

CHARGE TO: <i>Dan Huffman</i>	STATE
STREET	ZIP
CITY	

PLUG & FLOAT EQUIPMENT	@
------------------------	---



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Dan Haffner**

PO Box 49
Hoxie, KS 67740

ATTN: Dan Haffner

20-9-27 Sheridan,KS

Haffner 2-20

Start Date: 2011.04.16 @ 12:28:55

End Date: 2011.04.16 @ 18:44:10

Job Ticket #: 042613 DST #: 4

RECEIVED

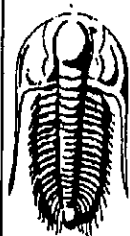
MAY 22 2012

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

TOOL DIAGRAM

Dan Haffner
PO Box 49
Hoxie, KS 67740
ATTN: Dan Haffner

Haffner 2-20
20-9-27 Sheridan,KS
Job Ticket: 042613 DST#: 4
Test Start: 2011.04.16 @ 12:28:55

Tool Information

Drill Pipe:	Length: 4116.00 ft	Diameter: 3.80 inches	Volume: 57.74 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 57.74 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	4124.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4097.00	
Shut In Tool	5.00			4102.00	
Hydraulic tool	5.00			4107.00	
Jars	5.00			4112.00	
Safety Joint	3.00			4115.00	
Packer	4.00			4119.00	28.00 Bottom Of Top Packer
Packer	5.00			4124.00	
Stubb	1.00			4125.00	
Recorder	0.00	6672	Inside	4125.00	
Recorder	0.00	8321	Outside	4125.00	
Perforations	33.00			4158.00	
Bullnose	3.00			4161.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dan Haffner
PO Box 49
Hoxie, KS 67740

Haffner 2-20
20-9-27 Sheridan, KS
Job Ticket: 042613 DST#: 4
Test Start: 2011.04.16 @ 12:28:55

ATTN: Dan Haffner

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 1900.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: 29000 ppm

Recovery Information

Recovery Table

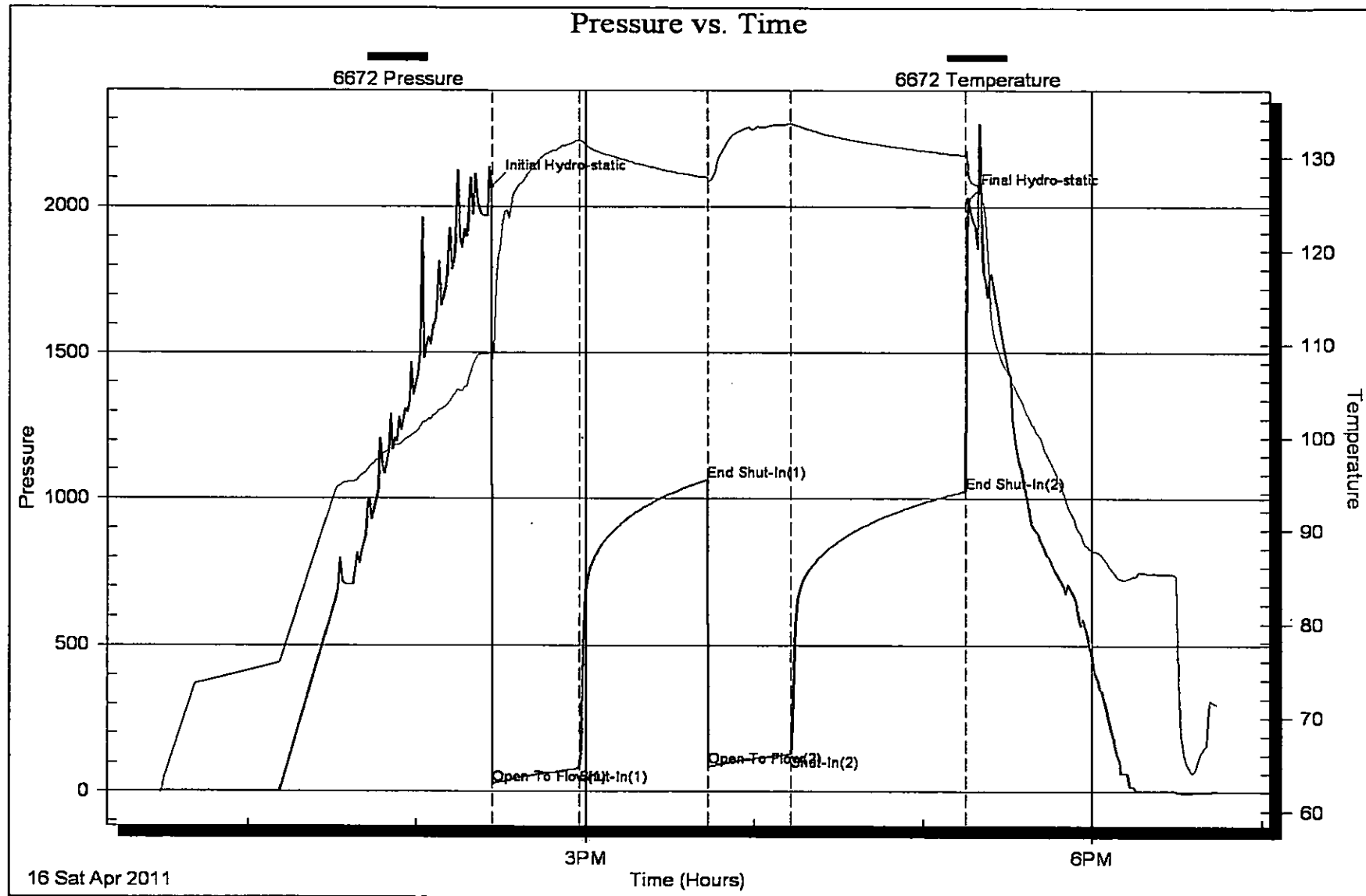
Length ft	Description	Volume bbl
239.00	MW 30% M70% W	3.353

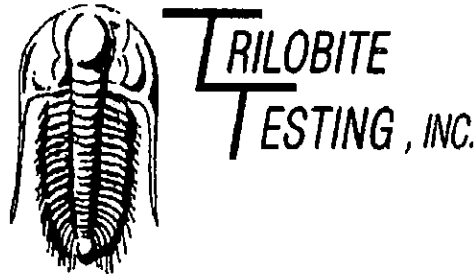
Total Length: 239.00 ft Total Volume: 3.353 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Dan Haffner**
PO Box 49
Hoxie, KS 67740

ATTN: Dan Haffner

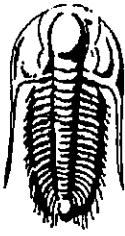
20-9-27 Sheridan,KS

Haffner 2-20

Start Date: 2011.04.13 @ 21:04:56
End Date: 2011.04.14 @ 03:15:26
Job Ticket #: 042610 DST #: 1

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dan Haffner
PO Box 49
Hoxie, KS 67740
ATTN: Dan Haffner

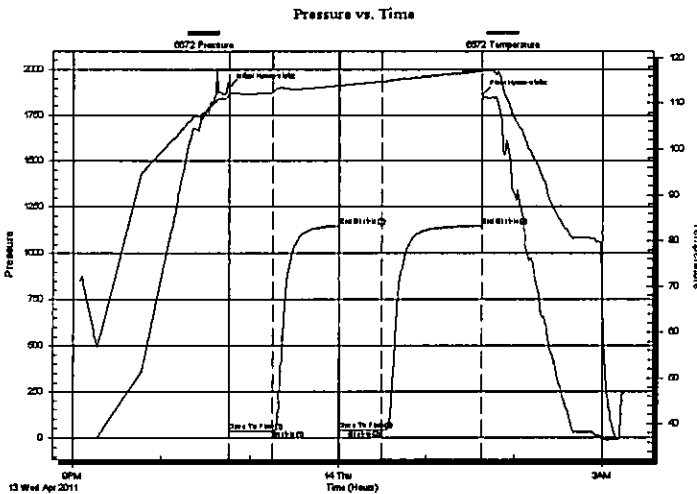
Haffner 2-20
20-9-27 Sheridan, KS
Job Ticket: 042610 DST#: 1
Test Start: 2011.04.13 @ 21:04:56

GENERAL INFORMATION:

Formation: Tor-Lan-A
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:45:41
Time Test Ended: 03:15:26
Interval: 3860.00 ft (KB) To 3912.00 ft (KB) (TVD)
Total Depth: 3912.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2754.00 ft (KB)
2744.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 Inside
Press@RunDepth: 41.87 psig @ 3895.00 ft (KB)
Start Date: 2011.04.13 End Date: 2011.04.14
Start Time: 21:04:57 End Time: 03:15:26
Capacity: 8000.00 psig
Last Calib.: 2011.04.14
Time On Btm: 2011.04.13 @ 22:45:26
Time Off Btm: 2011.04.14 @ 01:38:11

TEST COMMENT: IFP-Weak blow built to 1 1/2 in
ISI-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back



PRESSURE SUMMARY

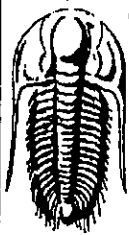
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.54	112.38	Initial Hydro-static
1	37.80	111.79	Open To Flow (1)
30	39.95	112.49	Shut-In(1)
76	1150.12	114.07	End Shut-In(1)
76	42.96	113.45	Open To Flow (2)
105	41.87	114.92	Shut-In(2)
173	1148.51	117.04	End Shut-In(2)
173	1866.55	117.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	VM 5% W95%M	0.06

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dan Haffner
PO Box 49
Hoxie, KS 67740

Haffner 2-20
20-9-27 Sheridan, KS
Job Ticket: 042610 **DST#: 1**
Test Start: 2011.04.13 @ 21:04:56

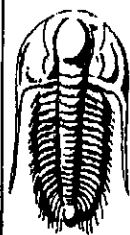
ATTN: Dan Haffner

Tool Information

Drill Pipe:	Length: 3866.00 ft	Diameter: 3.80 inches	Volume: 54.23 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 54.23 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3860.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 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			3833.00	
Shut In Tool	5.00			3838.00	
Hydraulic tool	5.00			3843.00	
Jars	5.00			3848.00	
Safety Joint	3.00			3851.00	
Packer	4.00			3855.00	28.00 Bottom Of Top Packer
Packer	5.00			3860.00	
Stubb	1.00			3861.00	
Perforations	2.00			3863.00	
Change Over Sub	1.00			3864.00	
Drill Pipe	30.00			3894.00	
Change Over Sub	1.00			3895.00	
Recorder	0.00	6672	Inside	3895.00	
Recorder	0.00	8321	Outside	3895.00	
Perforations	14.00			3909.00	
Bullnose	3.00			3912.00	52.00 Bottom Packers & Anchor
Total Tool Length:	80.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dan Haffner
PO Box 49
Hoxie, KS 67740
ATTN: Dan Haffner

Haffner 2-20
20-9-27 Sheridan,KS
Job Ticket: 042610 **DST#: 1**
Test Start: 2011.04.13 @ 21:04:56

Mud and Cushion Information

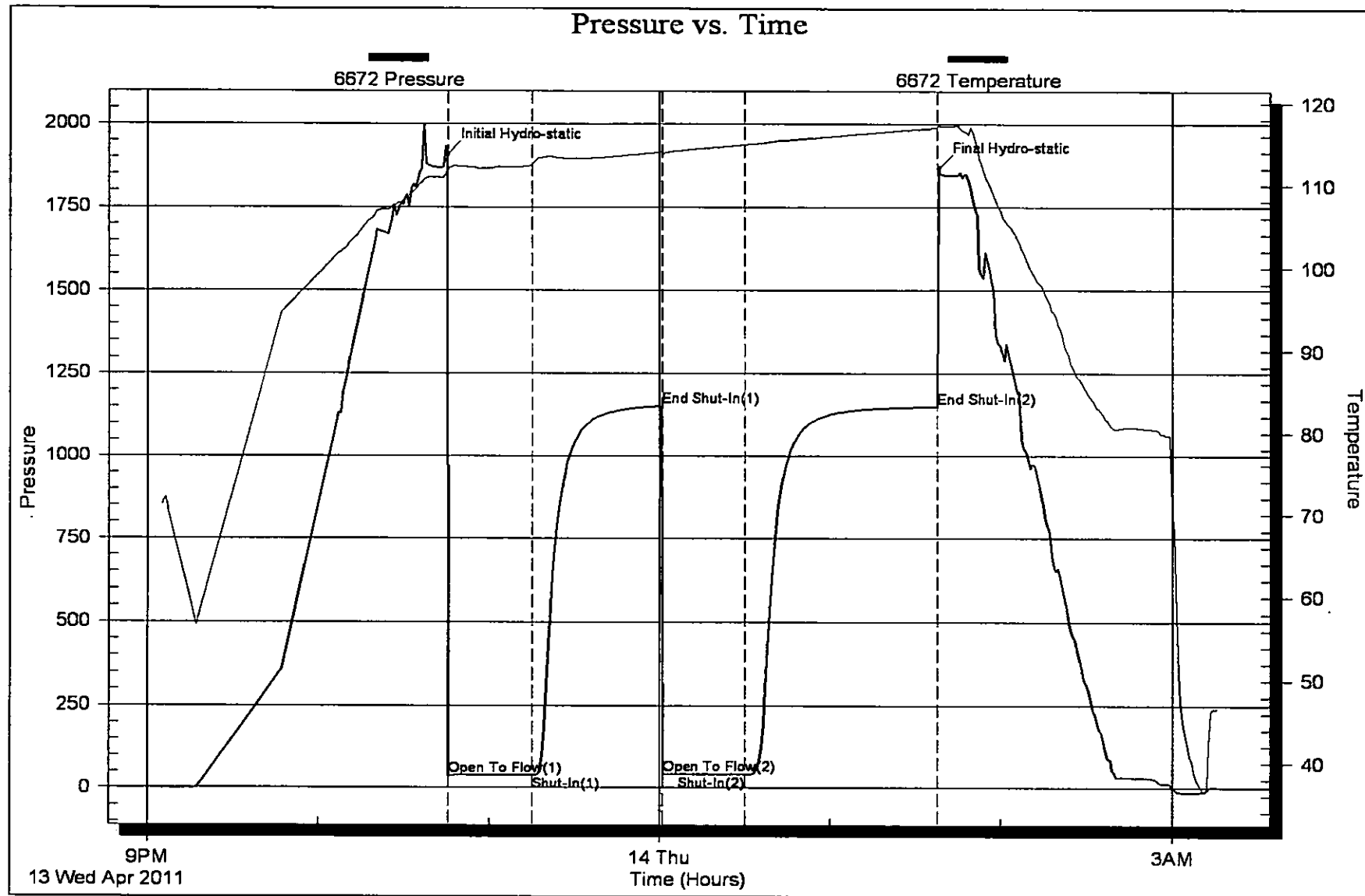
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	28000 ppm
Viscosity: 39.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: inches			

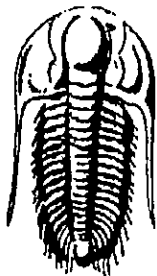
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	WM 5%W95%M	0.056

Total Length: 4.00 ft Total Volume: 0.056 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Dan Haffner**

PO Box 49
Hoxie, KS 67740

ATTN: Dan Haffner

20-9-27 Sheridan,KS

Haffner 2-20

Start Date: 2011.04.14 @ 10:30:15

End Date: 2011.04.14 @ 16:49:00

Job Ticket #: 052611 DST #: 2

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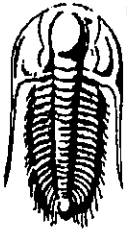
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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dan Haffner
PO Box 49
Hoxie, KS 67740
ATTN: Dan Haffner

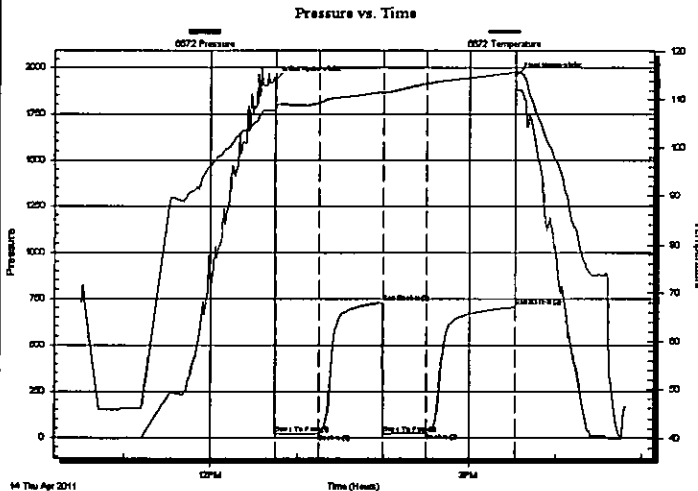
Haffner 2-20
20-9-27 Sheridan, KS
Job Ticket: 052611 DST#: 2
Test Start: 2011.04.14 @ 10:30:15

GENERAL INFORMATION:

Formation: Lan-C
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:44:15
Time Test Ended: 16:49:00
Interval: 3914.00 ft (KB) To 3938.00 ft (KB) (TVD)
Total Depth: 3938.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 44
Reference Elevations: 2754.00 ft (KB)
2744.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 Inside
Press@RunDepth: 23.20 psig @ 3917.00 ft (KB)
Start Date: 2011.04.14 End Date: 2011.04.14
Start Time: 10:30:16 End Time: 16:49:00
Capacity: 8000.00 psig
Last Calib.: 2011.04.14
Time On Btm: 2011.04.14 @ 12:44:00
Time Off Btm: 2011.04.14 @ 15:32:15

TEST COMMENT: IFP-Weak blow built to 1 1/2 in
ISI-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.22	108.31	Initial Hydro-static
1	20.11	107.24	Open To Flow (1)
31	20.97	109.19	Shut-In(1)
76	728.50	111.63	End Shut-In(1)
76	22.03	111.27	Open To Flow (2)
106	23.20	113.40	Shut-In(2)
168	705.38	115.77	End Shut-In(2)
169	1957.97	116.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with a scum of oil	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dan Haffner
PO Box 49
Hoxie, KS 67740

Haffner 2-20
20-9-27 Sheridan, KS
Job Ticket: 052611 DST#: 2
Test Start: 2011.04.14 @ 10:30:15

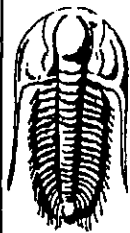
ATTN: Dan Haffner

Tool Information

Drill Pipe:	Length: 3898.00 ft	Diameter: 3.80 inches	Volume: 54.68 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 54.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3914.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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			3887.00	
Shut In Tool	5.00			3892.00	
Hydraulic tool	5.00			3897.00	
Jars	5.00			3902.00	
Safety Joint	3.00			3905.00	
Packer	4.00			3909.00	28.00 Bottom Of Top Packer
Packer	5.00			3914.00	
Stubb	1.00			3915.00	
Perforations	2.00			3917.00	
Recorder	0.00	6672	Inside	3917.00	
Recorder	0.00	8321	Outside	3917.00	
Perforations	18.00			3935.00	
Bulnose	3.00			3938.00	24.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Dan Haffner
PO Box 49
Hoxie, KS 67740
ATTN: Dan Haffner

Haffner 2-20
20-9-27 Sheridan, KS
Job Ticket: 052611 DST#: 2
Test Start: 2011.04.14 @ 10:30:15

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: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

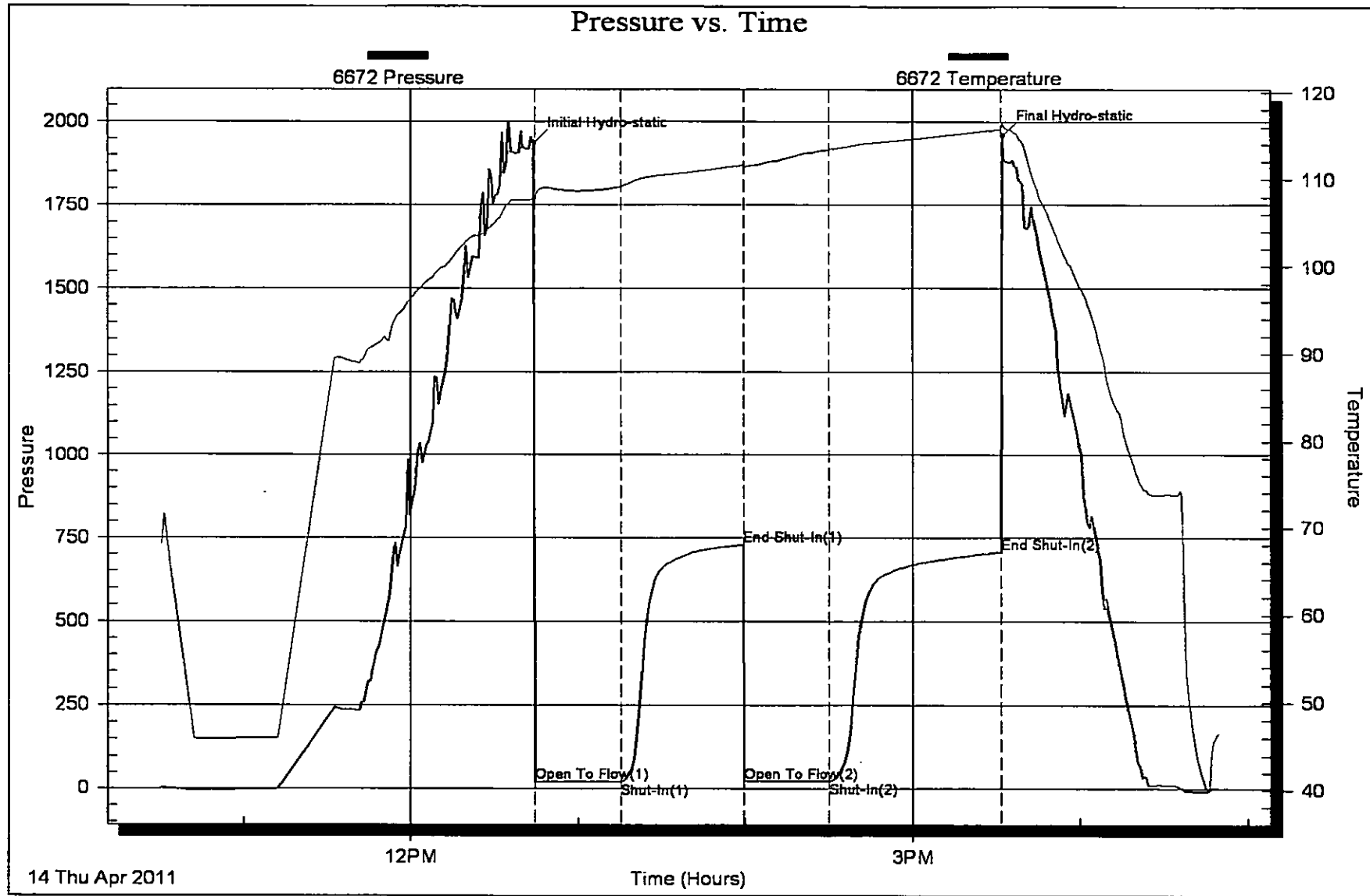
Length ft	Description	Volume bbl
5.00	Mud w ith a scum of oil	0.070

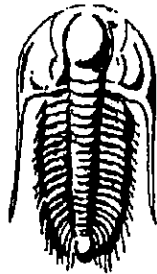
Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Dan Haffner**
PO Box 49
Hoxie, KS 67740

ATTN: Dan Haffner

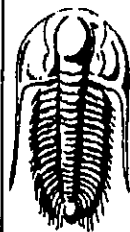
20-9-27 Sheridan,KS

Haffner 2-20

Start Date: 2011.04.15 @ 05:22:50
End Date: 2011.04.15 @ 17:07:35
Job Ticket #: 042612 DST #: 3

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dan Haffner
PO Box 49
Hoxie, KS 67740
ATTN: Dan Haffner

Haffner 2-20
20-9-27 Sheridan, KS
Job Ticket: 042612 DST#: 3
Test Start: 2011.04.15 @ 05:22:50

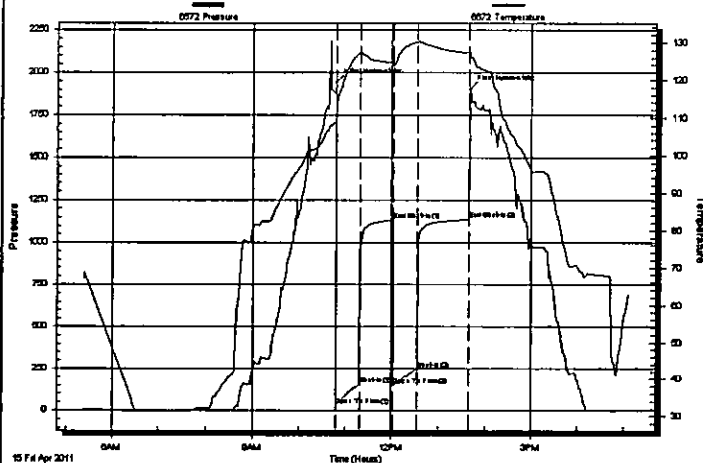
GENERAL INFORMATION:

Formation: **LAN-D-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:47:50
 Time Test Ended: 17:07:35
 Interval: **3940.00 ft (KB) To 3981.00 ft (KB) (TVD)**
 Total Depth: **3981.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2754.00 ft (KB)
 2744.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6672 Inside
 Press@RunDepth: 247.44 psig @ 3945.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.04.15 End Date: 2011.04.15 Last Calib.: 2011.04.15
 Start Time: 05:22:51 End Time: 17:07:35 Time On Btm: 2011.04.15 @ 10:47:20
 Time Off Btm: 2011.04.15 @ 13:40:35

TEST COMMENT: IFP-Good blow BOB in 10 1/2 min
 ISI-Weak blow back died out in 5 min
 FFP-Good blow BOB in 11 min
 FSI-Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

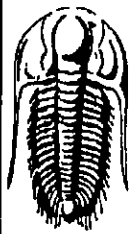
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.22	109.14	Initial Hydro-static
1	29.59	109.08	Open To Flow (1)
31	155.64	127.39	Shut-In(1)
75	1133.60	124.63	End Shut-In(1)
75	147.44	124.05	Open To Flow (2)
106	247.44	130.03	Shut-In(2)
172	1135.58	127.36	End Shut-In(2)
174	1901.81	126.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
73.00	WM 45%W55%M	1.02
378.00	MW 20%M80%W	5.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dan Haffner
PO Box 49
Hoxie, KS 67740

Haffner 2-20
20-9-27 Sheridan,KS
Job Ticket: 042612 DST#: 3
Test Start: 2011.04.15 @ 05:22:50

ATTN: Dan Haffner

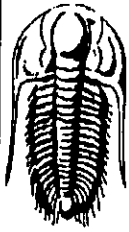
Tool Information

Drill Pipe:	Length: 3927.00 ft	Diameter: 3.80 inches	Volume: 55.09 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 55.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3940.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 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			3913.00	
Shut In Tool	5.00			3918.00	
Hydraulic tool	5.00			3923.00	
Jars	5.00			3928.00	
Safety Joint	3.00			3931.00	
Packer	4.00			3935.00	28.00 Bottom Of Top Packer
Packer	5.00			3940.00	
Stubb	1.00			3941.00	
Perforations	4.00			3945.00	
Recorder	0.00	6672	Inside	3945.00	
Recorder	0.00	8321	Outside	3945.00	
Perforations	33.00			3978.00	
Bullnose	3.00			3981.00	41.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dan Haffner
PO Box 49
Hoxie, KS 67740
ATTN: Dan Haffner

Haffner 2-20
20-9-27 Sheridan, KS
Job Ticket: 042612 DST#: 3
Test Start: 2011.04.15 @ 05:22:50

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:	38000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	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
73.00	WM 45%W55%M	1.024
378.00	MW 20%M80%W	5.302

Total Length: 451.00ft Total Volume: 6.326 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial#:

Laboratory Name:

Laboratory Location:

Recovery Comments:

