

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

9/27/13

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: P.O. Box 783188
Address 2: _____
City: Wichita State: KS Zip: 67278 + 3118
Contact Person: John Niemberger
Phone: (316) 691-9500
CONTRACTOR: License # 30606
Name: Murfin Drilling, Co., Inc.
Wellsite Geologist: Mike Engelbrecht
Purchaser: NCRA

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: _____
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.: _____
6/3/11 6/15/11 6/15/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 063-21918-00-00
Spot Description: 20' N & 45' E
W/2 NW NW Sec. 28 Twp. 13 S. R. 31 East West
640 Feet from North / South Line of Section
375 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Gove
Lease Name: Shibley 28B Well #: 1
Field Name: _____

Producing Formation: LKC
Elevation: Ground: 2834 Kelly Bushing: 2844
Total Depth: 4580 Plug Back Total Depth: 4530
Amount of Surface Pipe Set and Cemented at: 217 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2316 Feet
If Alternate II completion, cement circulated from: surface
feet depth to: 2316 w/ 250 sx cmt.

Drilling Fluid Management Plan Alt II 10-5-11
(Data must be collected from the Reserve Pit)

Chloride content: 11300 ppm Fluid volume: 900 bbls
Dewatering method used: evaporation **RECEIVED**
Location of fluid disposal if hauled offsite: **SEP 29 2011**
Operator Name: _____ **KCC WICHITA**
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: Production Manager Date: 9/27/11
Subscribed and sworn to before me this 27th day of September,
20 11.
Notary Public: Debra K Phillips
Date Commission Expires: 5-4-11

DEBRA K. PHILLIPS
Notary Public - State of Kansas
My Appt. Expires 5-4-11

KCC Office Use ONLY
 Letter of Confidentiality Received 9/27/11 - 9/27/13
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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SEP 27 2013

KCC

Operator Name: Ritchie Exploration, Inc. Lease Name: Shipley 28B Well #: 1
 Sec. 28 Twp. 13 S. R. 31 East West County: Gove

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 <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 <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction Log Compensated Density/Neutron Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum <p style="text-align: center;">SEE ATTACHED</p>
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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	217	common	175	3%cc, 2%gel
Production	7-7/8	5-1/2	15.5	4573	ASC	200	10% salt, 2% gel & 3/4% CD-31

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				

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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	4119' - 4125' (6/30/11)	500 gallons 15% NE	
4	4070.5' - 4073' (6/30/11)	750 gallons 15% NE	
4	3924' - 3927' (6/30/11)	500 gallons 15% NE	

KCC WICHITA

TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>4534</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. <u>7/19/11</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>47</u>	Gas Mcf	Water Bbls. <u>21.5</u> Gas-Oil Ratio _____ Gravity <u>39.6</u>

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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____
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#1 Shipley 28B

640' FNL & 375' FWL

20' N & 45' E of W/2 NW NW Section 28-13S-31W

Gove County, Kansas

API# 15-063-21918-0000

Elevation: 2834' GL: 2844' KB

<u>Sample Tops</u>			<u>Ref. Well</u>
Anhydrite	2319'	+525	flat
B/Anhydrite	2343'	+501	-1
Heebner	3830'	-986	-2
Lansing	3873'	-1029	-3
LKC "C"	3910'	-1066	-4
Muncie Shale	4021'	-1177	-3
Stark Shale	4106'	-1262	-4
Hush	4145'	-1301	-5
BKC	4183'	-1339	-5
Marmaton	4210'	-1366	flat
Altamont	4236'	-1392	-1
Pawnee	4306'	-1462	flat
Myrick Station	4340'	-1496	flat
Fort Scott	4362'	-1518	flat
Cherokee Shale	4388'	-1544	flat
Johnson	4432'	-1588	flat
B/Johnson	4456'	-1612	flat
Mississippian	4471'	-1627	+1
RTD	4580'	-1736	

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ALLIED CEMENTING CO., LLC. 043426

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

SERVICE POINT:
Oakley

DATE <u>6-4-11</u>	SEC <u>28</u>	TWP <u>13s</u>	RANGE <u>3/W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00pm</u>	JOB FINISH <u>3:30pm</u>
LEASE <u>Shipley</u>	WELL # <u>28B</u>	LOCATION <u>Oakley Hs 3E 4S</u>			COUNTY <u>Gove</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>1</u>		<u>1e Sinto</u>					

CONTRACTOR Murfin 14
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 219'
 CASING SIZE 8 5/8 DEPTH 219'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15
 PERFS.
 DISPLACEMENT 12.74

OWNER same
 CEMENT
 AMOUNT ORDERED 125 sks com
30cc 2% gel

COMMON	<u>125 sks</u>	@ <u>16.25</u>	<u>2843.75</u>
POZMIX		@	
GEL	<u>3 sks</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6 sks</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>184 sks</u>	@ <u>2.25</u>	<u>414.00</u>
MILEAGE	<u>118 sk/mile</u>		<u>404.80</u>
			TOTAL <u>4075.50</u>

REMARKS:

Cement did circulate
Thank you

SERVICE

DEPTH OF JOB	<u>219'</u>	125.00
PUMP TRUCK CHARGE		<u>1125.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>20 miles x 2</u>	@ <u>7.00</u> <u>280.00</u>
MANIFOLD	<u>head</u>	@ <u>200.00</u>
Light Vehicle	@ <u>4.00</u>	<u>160.00</u>
	@	
TOTAL <u>1765.00</u>		

CHARGE TO: Ritchie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

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 _____
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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[Signature]

ALLIED CEMENTING CO., LLC. 039960

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

SERVICE POINT: Oakley

DATE <u>6/15/11</u>	SEC <u>28</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30</u>	JOB FINISH <u>12:00</u>
LEASE <u>Shady 288</u>	WELL # <u>#1</u>	LOCATION <u>Oakley 11S3E4S</u>		COUNTY <u>Garret</u>	STATE <u>Ks</u>		
OLD OR NEW (Circle one)		IF <u>5 into</u>					

CONTRACTOR Murfin 14

TYPE OF JOB no division

HOLE SIZE 7 1/2" T.D. 458.2

CASING SIZE 5 1/2" DEPTH 45 1/2'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL Port Collar DEPTH 2316

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT, 21

CEMENT LEFT IN CSG. 21

PERFS.

DISPLACEMENT 108 1/2" OIL H₂O

OWNER Same

CEMENT AMOUNT ORDERED 250 SKS ASL

1090 Salt 5# Gilsomite 250 gal

3/4-170 CO 31 500 Gal WFR II

COMMON	@		
POZMIX	@		
GEL	5	@ 21.25	106.25
CHLORIDE	@		
ASC	250 SKS	@ 19.00	4750.00
Salt	24	@ 23.95	574.80
Gilsomite	1200 lb	@ 9.29	1112.80
CO 31	176 lb	@ 9.35	1645.60
WFR II		@ 1.22	635.00
HANDLING	323 SKS	@ 2.25	726.75
MILEAGE	195K/mile		210.00
			TOTAL <u>10261.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Alan

423-281 HELPER Terry

BULK TRUCK

404 DRIVER Earl

BULK TRUCK DRIVER

REMARKS:

Run Log, Circulate 1 hr max WFR II, mix 11, 5 1/4" H + 30 SKS R.H. mix, 205 SKS Down 5 1/2" Wash up tank, Displace Plug w/ 108 1/2" OIL H₂O w/ 1200 PPT/LIFT and Plug 1600 PPT. Float held

Thank You Alan Terry, Earl

CHARGE TO: R. Tchic Exploration

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB		<u>4573</u>	
PUMP TRUCK CHARGE		<u>2405.00</u>	
EXTRA FOOTAGE	@		
MILEAGE	20 x 2	@ 7.00 280.00	
MANIFOLD	Head	@ 200.00	
Lite vehicle	20 X 2	@ 160.00	
			TOTAL <u>3045.00</u>

PLUG & FLOAT EQUIPMENT

Guide Shoe	-1	240.00	240.00
Baskets	-4	@ 337.00	1348.00
Truck Covers	-7	@ 80.00	560.00
Port collar	-1	@ 2600.00	2600.00
Rubber Plug	-1	@ 73.00	73.00
APN Float	-1	@ 286.00	286.00
			TOTAL <u>5107.00</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.

PRINTED NAME

SIGNATURE Thomas Ash

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

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[Handwritten mark]

ALLIED CEMENTING CO., LLC. 043373

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

SERVICE POINT: Dakby, KS

DATE <u>6-17-11</u>	SEC. <u>28</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00 pm</u>	JOB FINISH <u>2:00 pm</u>
LEASE <u>Shipley 288</u>	WELL # <u>1</u>	LOCATION <u>Dakby, KS 115 3E 4S</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>1E 5 into</u>			

CONTRACTOR Express Well Service OWNER Same
 TYPE OF JOB port collar
 HOLE SIZE _____ T.D. _____
 CASING SIZE 5 1/2 DEPTH 4573
 TUBING SIZE 2 1/8 DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL port collar DEPTH 2316'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 13.43 bbl

CEMENT
 AMOUNT ORDERED 450 sks 6000 62 gal
1/4" # flo seal 500# Cottonseed
hulls

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX	<u>100</u>	@	<u>8.50</u>	<u>850.00</u>
GEL	<u>14 sks</u>	@	<u>21.25</u>	<u>297.50</u>
CHLORIDE		@		
ASC		@		
Cottonseed Hulls		@	<u>31.85</u>	<u>127.40</u>
<u>4 sks</u>		@		
<u>Flo-seal 63 #</u>		@	<u>2.76</u>	<u>170.10</u>
		@		
		@		
		@		
		@		
HANDLING	<u>489 sks</u>	@	<u>2.25</u>	<u>1100.25</u>
MILEAGE	<u>118.5 km</u>			<u>1075.80</u>
				TOTAL <u>6058.55</u>

REMARKS:

Pressure system to 1200ft. Open port collar. Mix 250 sks cement, circulate to surface. Close port collar pressure system to 1200ft. Run in joints, reverse out.

Thank you

CHARGE TO: Ritchie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>2316'</u>		
PUMP TRUCK CHARGE		@	<u>2125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>208.2</u>	@	<u>7.00</u>
MANIFOLD		@	
<u>Light vehicle mileage</u>		@	<u>4.00</u>
		@	
TOTAL <u>2565.00</u>			

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
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 _____
 SIGNATURE Thomas A. Ash

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

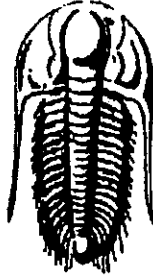
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2



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

Shipley #1 28B

Start Date: 2011.06.08 @ 08:50:27

End Date: 2011.06.08 @ 15:15:06

Job Ticket #: 042681 DST #: 1

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KCC WICHITA

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
8100 E 22nd St N#700
Wichita, KS 67278

Shipley #1 28B
28-13-31 Gove,KS
Job Ticket: 042681 DST#: 1
Test Start: 2011.06.08 @ 08:50:27

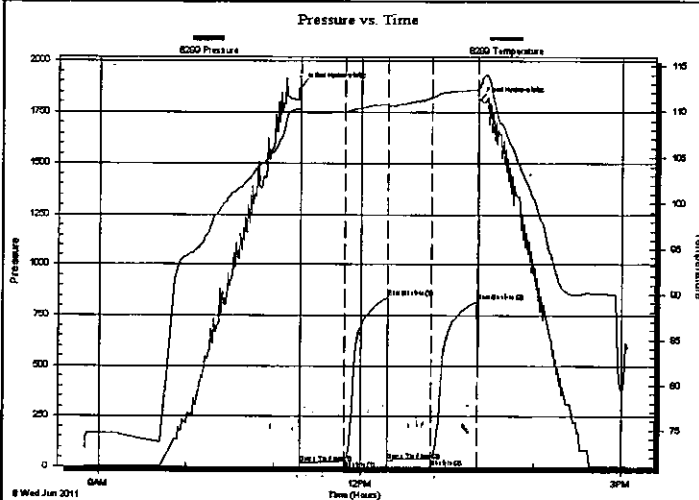
ATTN: Mike Engelbrecht

GENERAL INFORMATION:

Formation: **C**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 11:18:22
Time Test Ended: 15:15:06
Interval: **3895.00 ft (KB) To 3923.00 ft (KB) (TVD)**
Total Depth: **3923.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **37**
Reference Elevations: **2844.00 ft (KB)**
2833.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: **8289** Outside
Press@RunDepth: **43.61 psig @ 3896.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.06.08** End Date: **2011.06.08** Last Calib.: **2011.06.08**
Start Time: **08:50:27** End Time: **15:04:06** Time On Btm: **2011.06.08 @ 11:18:07**
Time Off Btm: **2011.06.08 @ 13:21:37**

TEST COMMENT: **Weak blow died in 6 min**
No return
No blow, flush tool, good surge, no blow
No return



PRESSURE SUMMARY

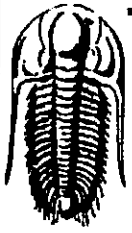
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1875.30	110.29	Initial Hydro-static
1	20.03	109.70	Open To Flow (1)
31	30.59	109.96	Shut-In(1)
61	838.50	110.80	End Shut-In(1)
61	34.51	110.43	Open To Flow (2)
91	43.61	111.52	Shut-In(2)
123	819.76	112.37	End Shut-In(2)
124	1807.38	112.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud w/oil spots 100%m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

ShIPLEY #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove,KS

Job Ticket: 042681

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2011.06.08 @ 08:50:27

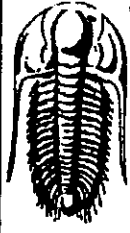
Tool Information

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 98000.00 lb
		Total Volume:	49.75 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3895.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3868.00	
Shut In Tool	5.00			3873.00	
Hydraulic tool	5.00			3878.00	
Jars	5.00			3883.00	
Safety Joint	3.00			3886.00	
Packer	5.00			3891.00	28.00 Bottom Of Top Packer
Packer	4.00			3895.00	
Stubb	1.00			3896.00	
Recorder	0.00	8373	Inside	3896.00	
Recorder	0.00	8289	Outside	3896.00	
Perforations	22.00			3918.00	
Bullnose	5.00			3923.00	28.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

Job Ticket: 042681

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2011.06.08 @ 08:50:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud w/oil spots 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

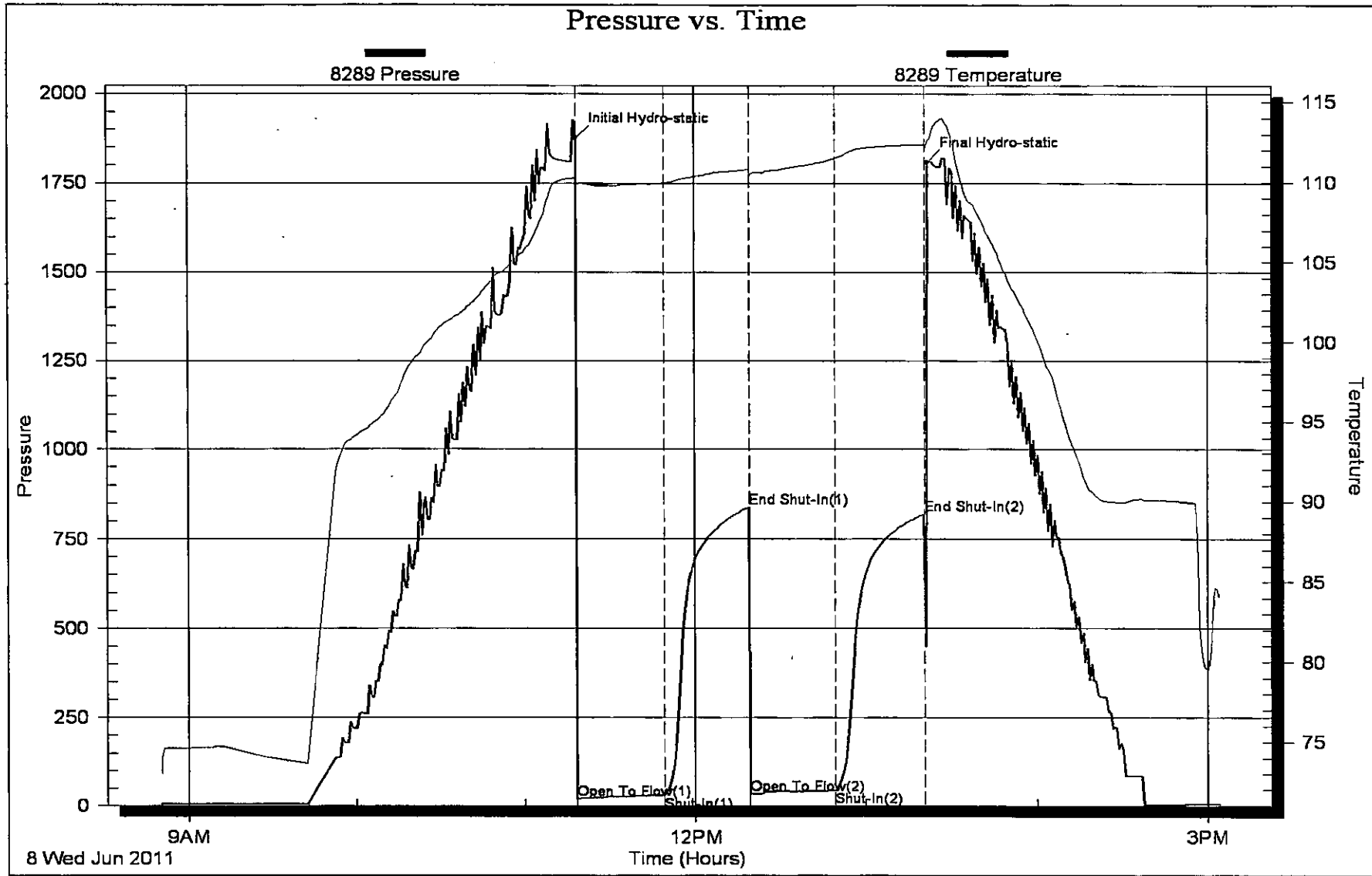
Num Gas Bombs: 0

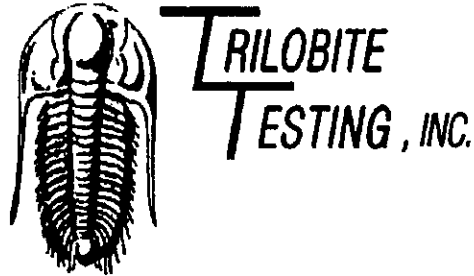
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

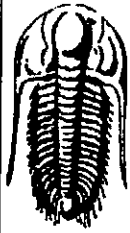
Shipley #1 28B

Start Date: 2011.06.08 @ 21:40:15

End Date: 2011.06.09 @ 05:15:24

Job Ticket #: 042682 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
8100 E 22nd St N#700
Wichita, KS 67278
ATTN: Mike Engelbrecht

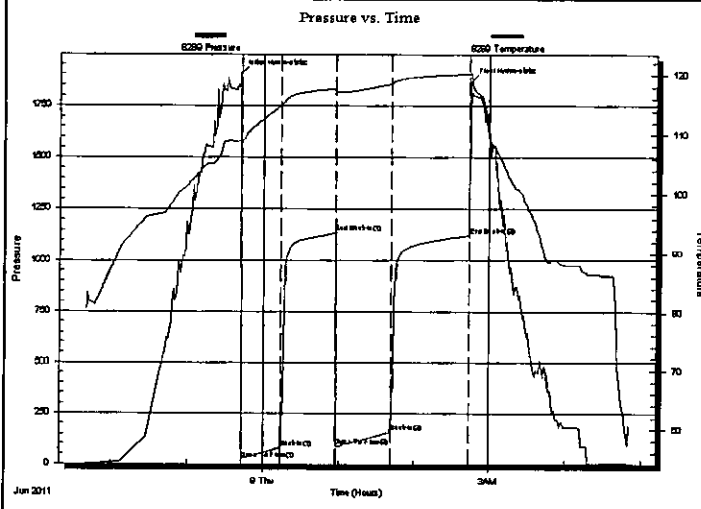
Shipley #1 28B
28-13-31 Gove,KS
Job Ticket: 042682 DST#: 2
Test Start: 2011.06.08 @ 21:40:15

GENERAL INFORMATION:

Formation: D
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:42:10
Time Test Ended: 05:15:24
Interval: 3920.00 ft (KB) To 3946.00 ft (KB) (TVD)
Total Depth: 3946.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 37
Reference Elevations: 2844.00 ft (KB)
2833.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8289 Outside
Press@RunDepth: 157.48 psig @ 3921.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.06.08 End Date: 2011.06.09 Last Calib.: 2011.06.09
Start Time: 21:40:15 End Time: 04:50:24 Time On Btm: 2011.06.08 @ 23:41:55
Time Off Btm: 2011.06.09 @ 02:45:10

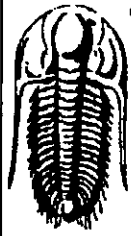
TEST COMMENT: 9" in blow
No return
B.O.B. in 21 min
1 1/4" in return blow, died in 45 min.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.28	109.03	Initial Hydro-static
1	21.63	108.49	Open To Flow (1)
32	80.23	114.91	Shut-In(1)
75	1137.67	117.73	End Shut-In(1)
76	86.86	117.36	Open To Flow (2)
120	157.48	118.58	Shut-In(2)
183	1124.26	120.14	End Shut-In(2)
184	1862.23	120.35	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
280.00	c g o 10%g 90%o	1.38
90.00	m c g o 10%g 30%o 60%o	0.44
0.00	80' weak gas in pipe	0.00

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration
8100 E 22nd St N#700
Wichita, KS 67278

Shibley #1 28B
28-13-31 Gove, KS
Job Ticket: 042682 DST#: 2
Test Start: 2011.06.08 @ 21:40:15

ATTN: Mike Engelbrecht

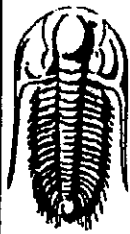
Tool Information

Drill Pipe:	Length: 3399.00 ft	Diameter: 3.80 inches	Volume: 47.68 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 100000.0 lb
			Total Volume: 50.31 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	3920.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 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			3901.00	
Shut In Tool	5.00			3906.00	
Hydraulic tool	5.00			3911.00	
Packer	5.00			3916.00	20.00 Bottom Of Top Packer
Packer	4.00			3920.00	
Stubb	1.00			3921.00	
Recorder	0.00	8373	Inside	3921.00	
Recorder	0.00	8289	Outside	3921.00	
Perforations	20.00			3941.00	
Bullnose	5.00			3946.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

ShIPLEY #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove,KS

Job Ticket: 042682

DST#: 2

ATTN: Mike Engelbrecht

Test Start: 2011.06.08 @ 21:40:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	c g o 10%g 90%o	1.377
90.00	m c g o 10%g 30%m 60%o	0.443
0.00	80' weak gas in pipe	0.000

Total Length: 370.00 ft Total Volume: 1.820 bbl

Num Fluid Samples: 0

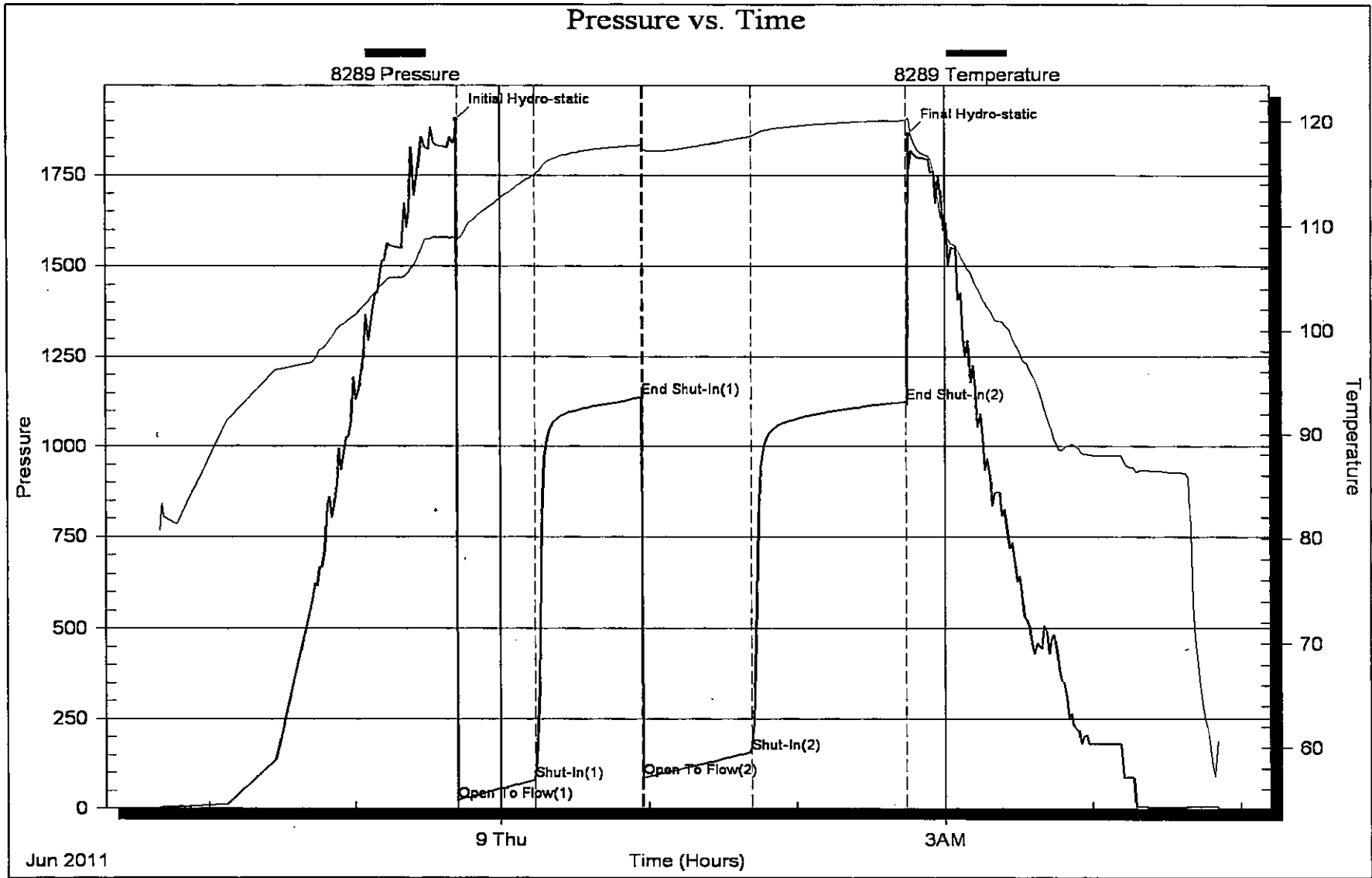
Num Gas Bombs: 0

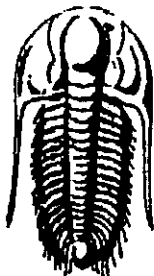
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

Shiple #1 28B

Start Date: 2011.06.09 @ 13:00:33

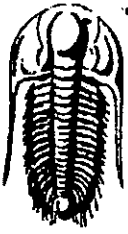
End Date: 2011.06.09 @ 19:15:57

Job Ticket #: 042683 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

ATTN: Mike Engelbrecht

Job Ticket: 042683

DST#: 3

Test Start: 2011.06.09 @ 13:00:33

GENERAL INFORMATION:

Formation: E-F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:15:13

Time Test Ended: 19:15:57

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 37

Interval: 3944.00 ft (KB) To 3972.00 ft (KB) (TVD)

Total Depth: 3972.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2844.00 ft (KB)

2833.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8289

Outside

Press@RunDepth: 97.47 psig @ 3945.00 ft (KB)

Start Date: 2011.06.09

End Date:

2011.06.09

Capacity: 8000.00 psig

Last Calib.: 2011.06.09

Start Time: 13:00:33

End Time:

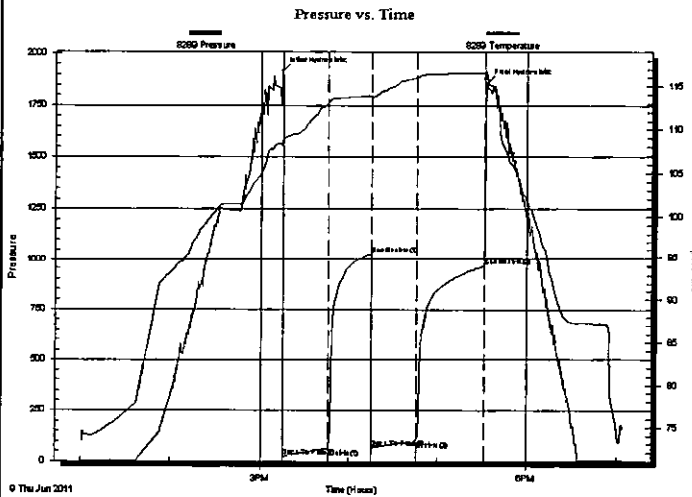
19:04:57

Time On Btm: 2011.06.09 @ 15:14:28

Time Off Btm: 2011.06.09 @ 17:32:43

TEST COMMENT: 3/4" in blow
No return
1/8" in blow
No return

PRESSURE SUMMARY



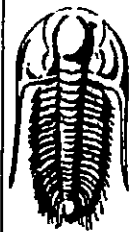
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.79	108.60	Initial Hydro-static
1	21.92	108.09	Open To Flow (1)
32	62.75	113.05	Shut-In(1)
61	1028.85	113.90	End Shut-In(1)
62	66.07	113.52	Open To Flow (2)
92	97.47	116.03	Shut-In(2)
137	960.88	116.52	End Shut-In(2)
139	1855.99	116.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	s w c m 15%w 85%m	0.10
90.00	s m c w 10%m 90%w	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

Job Ticket: 042683

DST#: 3

ATTN: Mike Engelbrecht

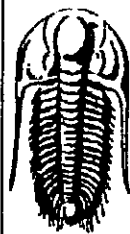
Test Start: 2011.06.09 @ 13:00:33

Tool Information

Drill Pipe:	Length: 3399.00 ft	Diameter: 3.80 inches	Volume: 47.68 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume:	50.31 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	3944.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3925.00	
Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Packer	5.00			3940.00	20.00 Bottom Of Top Packer
Packer	4.00			3944.00	
Stubb	1.00			3945.00	
Recorder	0.00	8373	Inside	3945.00	
Recorder	0.00	8289	Outside	3945.00	
Perforations	22.00			3967.00	
Bullnose	5.00			3972.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

Job Ticket: 042683

DST#: 3

ATTN: Mike Engelbrecht

Test Start: 2011.06.09 @ 13:00:33

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	s w c m 15%w 85%m	0.098
90.00	s m c w 10%m 90%w	0.443

Total Length: 110.00 ft Total Volume: 0.541 bbf

Num Fluid Samples: 0

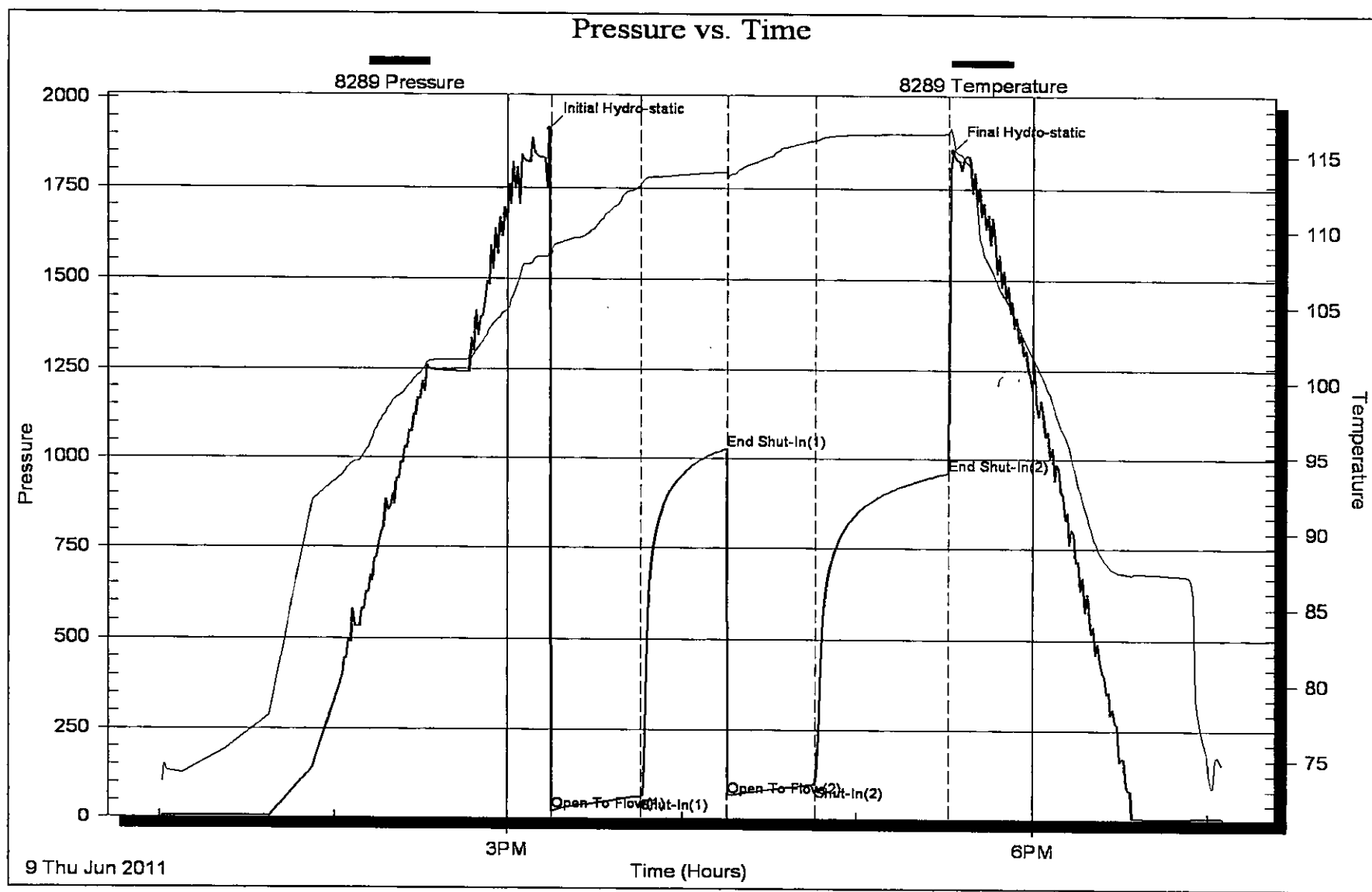
Num Gas Bombs: 0

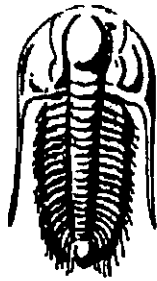
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .184 @ 75*f = 48,000 chlor





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

Shipley #1 28B

Start Date: 2011.06.10 @ 05:32:30

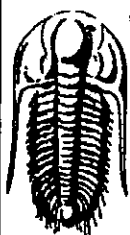
End Date: 2011.06.10 @ 11:20:45

Job Ticket #: 43323 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ritchie Exploration
 8100 E 22nd St N#700
 Wichita, KS 67278
 ATTN: Mke Engelbrecht

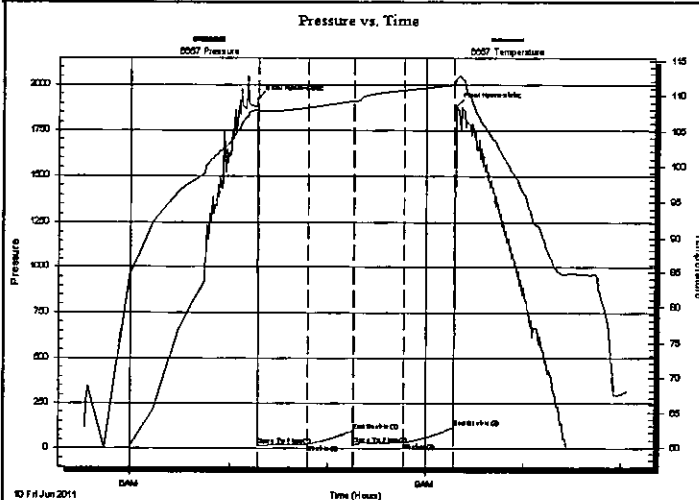
Shipley #1 28B
28-13-31 Gove,KS
 Job Ticket: 43323 DST#: 4
 Test Start: 2011.06.10 @ 05:32:30

GENERAL INFORMATION:

Formation: H
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:17:00
 Time Test Ended: 11:20:45
 Interval: 4018.00 ft (KB) To 4055.00 ft (KB) (TVD)
 Total Depth: 4055.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2844.00 ft (KB)
 2833.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6667 Outside
 Press@RunDepth: 34.98 psig @ 4019.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.06.10 End Date: 2011.06.10 Last Calib.: 2011.06.10
 Start Time: 05:32:30 End Time: 11:03:45 Time On Btm: 2011.06.10 @ 07:16:45
 Time Off Btm: 2011.06.10 @ 09:18:00

TEST COMMENT: 1/4" in blow died in 8 min.
 No return
 1/4" in blow died back to surface blow, flush tool 1/4" in blow died in 16 min.
 No return



PRESSURE SUMMARY

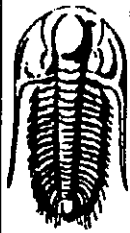
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.25	108.18	Initial Hydro-static
1	18.24	107.80	Open To Flow (1)
31	23.97	108.31	Shut-In(1)
59	97.70	109.24	End Shut-In(1)
60	21.61	109.20	Open To Flow (2)
90	34.98	110.75	Shut-In(2)
121	118.31	111.53	End Shut-In(2)
122	1883.92	112.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w/oil spots 100% m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove,KS

Job Ticket: 43323

DST#: 4

ATTN: Mike Engelbrecht

Test Start: 2011.06.10 @ 05:32:30

Tool Information

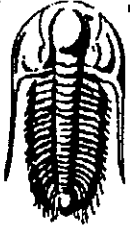
Drill Pipe:	Length: 3494.00 ft	Diameter: 3.80 inches	Volume: 49.01 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 51.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4018.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3999.00	
Shut In Tool	5.00			4004.00	
Hydraulic tool	5.00			4009.00	
Packer	5.00			4014.00	20.00 Bottom Of Top Packer
Packer	4.00			4018.00	
Stubb	1.00			4019.00	
Recorder	0.00	6771	Inside	4019.00	
Recorder	0.00	6667	Outside	4019.00	
Perforations	31.00			4050.00	
Bullnose	5.00			4055.00	37.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

Job Ticket: 43323

DST#: 4

ATTN: Mike Engelbrecht

Test Start: 2011.06.10 @ 05:32:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud w/oil spots 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

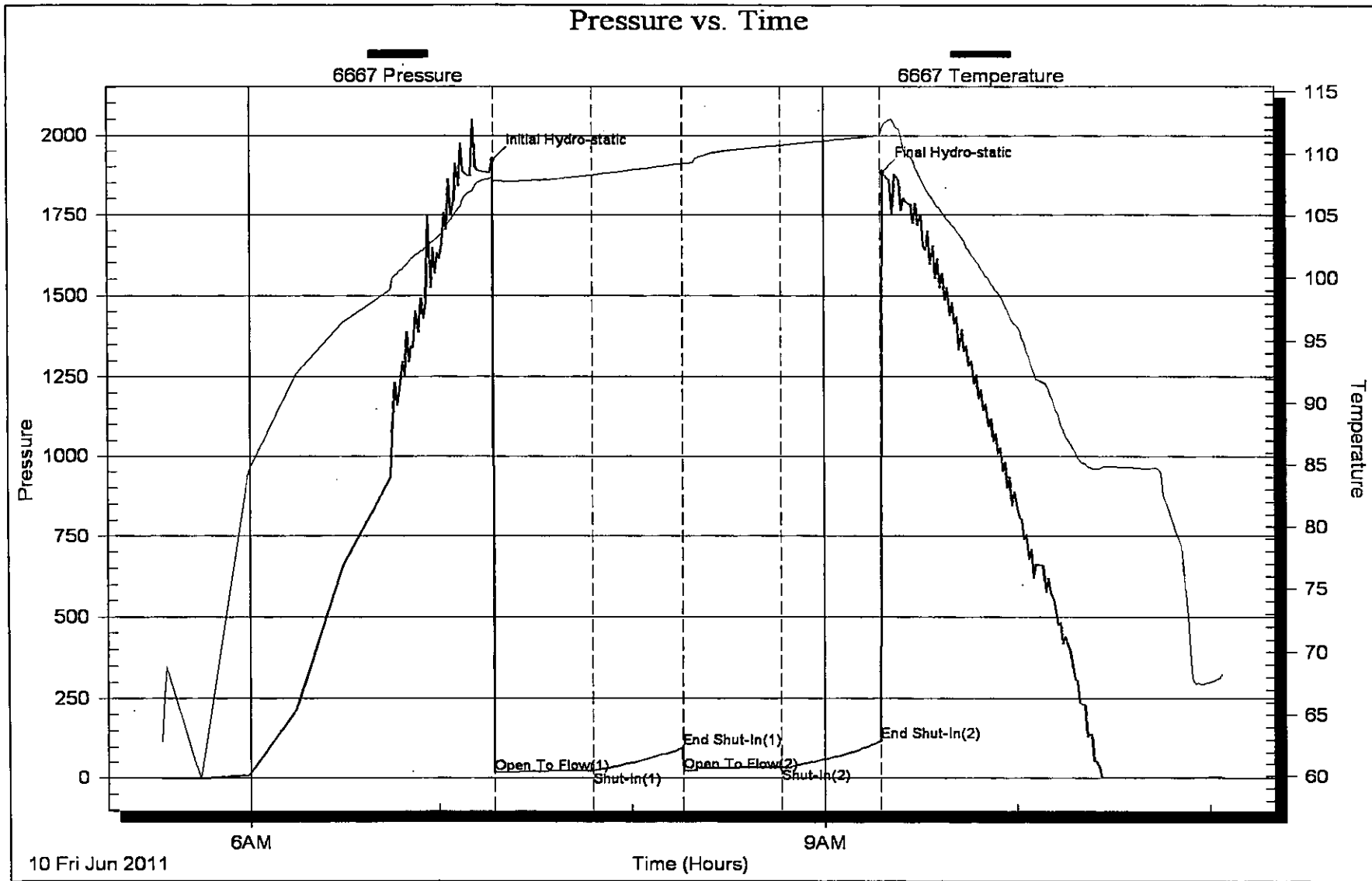
Num Gas Bombs: 0

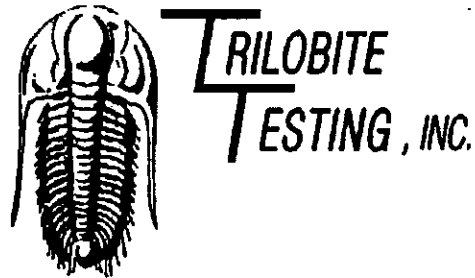
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

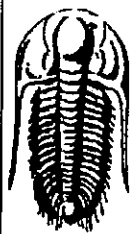
Shipley #1 28B

Start Date: 2011.06.10 @ 17:45:18

End Date: 2011.06.11 @ 00:50:33

Job Ticket #: 43324 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ritchie Exploration
 8100 E 22nd St N#700
 Wichita, KS 67278
 ATTN: Mike Engelbrecht

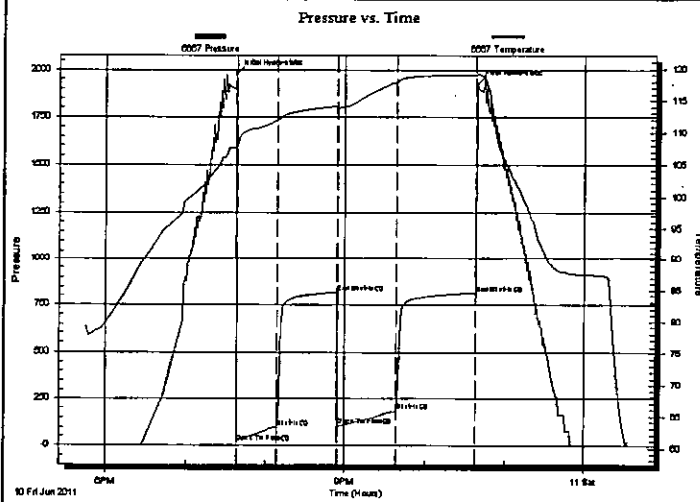
ShIPLEY #1 28B
28-13-31 Gove,KS
 Job Ticket: 43324 DST#: 5
 Test Start: 2011.06.10 @ 17:45:18

GENERAL INFORMATION:

Formation: I
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:38:03
 Time Test Ended: 00:50:33
 Interval: 4053.00 ft (KB) To 4083.00 ft (KB) (TVD)
 Total Depth: 4083.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2844.00 ft (KB)
 2833.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6667 Outside
 Press@RunDepth: 183.86 psig @ 4054.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.06.10 End Date: 2011.06.11 Last Calib.: 2011.06.11
 Start Time: 17:45:18 End Time: 00:33:33 Time On Btm: 2011.06.10 @ 19:37:33
 Time Off Btm: 2011.06.10 @ 22:39:18

TEST COMMENT: B.O.B. in 11 min.
 No return
 B.O.B. in 14 1/2 min.
 2 1/2" in blow return



PRESSURE SUMMARY

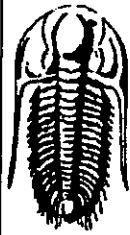
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.00	107.96	Initial Hydro-static
1	17.66	107.92	Open To Flow (1)
31	100.11	111.97	Shut-In(1)
77	818.63	114.16	End Shut-In(1)
77	107.76	113.90	Open To Flow (2)
121	183.86	117.98	Shut-In(2)
181	813.50	118.97	End Shut-In(2)
182	1925.34	119.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	c g o 25%g 75%o	1.40
90.00	s m c g o 10%m 20%g 70%o	0.44
90.00	g o c m 50%g 20%o 30%m	0.44
0.00	615' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration
8100 E 22nd St N#700
Wichita, KS 67278

Shipley #1 28B

28-13-31 Gove, KS

Job Ticket: 43324

DST#: 5

ATTN: Mike Engelbrecht

Test Start: 2011.06.10 @ 17:45:18

Tool Information

Drill Pipe:	Length: 3519.00 ft	Diameter: 3.80 inches	Volume: 49.36 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 105000.0 lb
			Total Volume: 51.99 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4053.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			4034.00	
Shut in Tool	5.00			4039.00	
Hydraulic tool	5.00			4044.00	
Packer	5.00			4049.00	20.00 Bottom Of Top Packer
Packer	4.00			4053.00	
Stubb	1.00			4054.00	
Recorder	0.00	6771	Inside	4054.00	
Recorder	0.00	6667	Outside	4054.00	
Perforations	24.00			4078.00	
Bullnose	5.00			4083.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

ShIPLEY #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove,KS

Job Ticket: 43324

DST#: 5

ATTN: Mike Engelbrecht

Test Start: 2011.06.10 @ 17:45:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
285.00	c g o 25%g 75%o	1.402
90.00	s m c g o 10%m 20%g 70%o	0.443
90.00	g o c m 50%g 20%o 30%m	0.443
0.00	615' gas in pipe	0.000

Total Length: 465.00 ft Total Volume: 2.288 bbf

Num Fluid Samples: 0

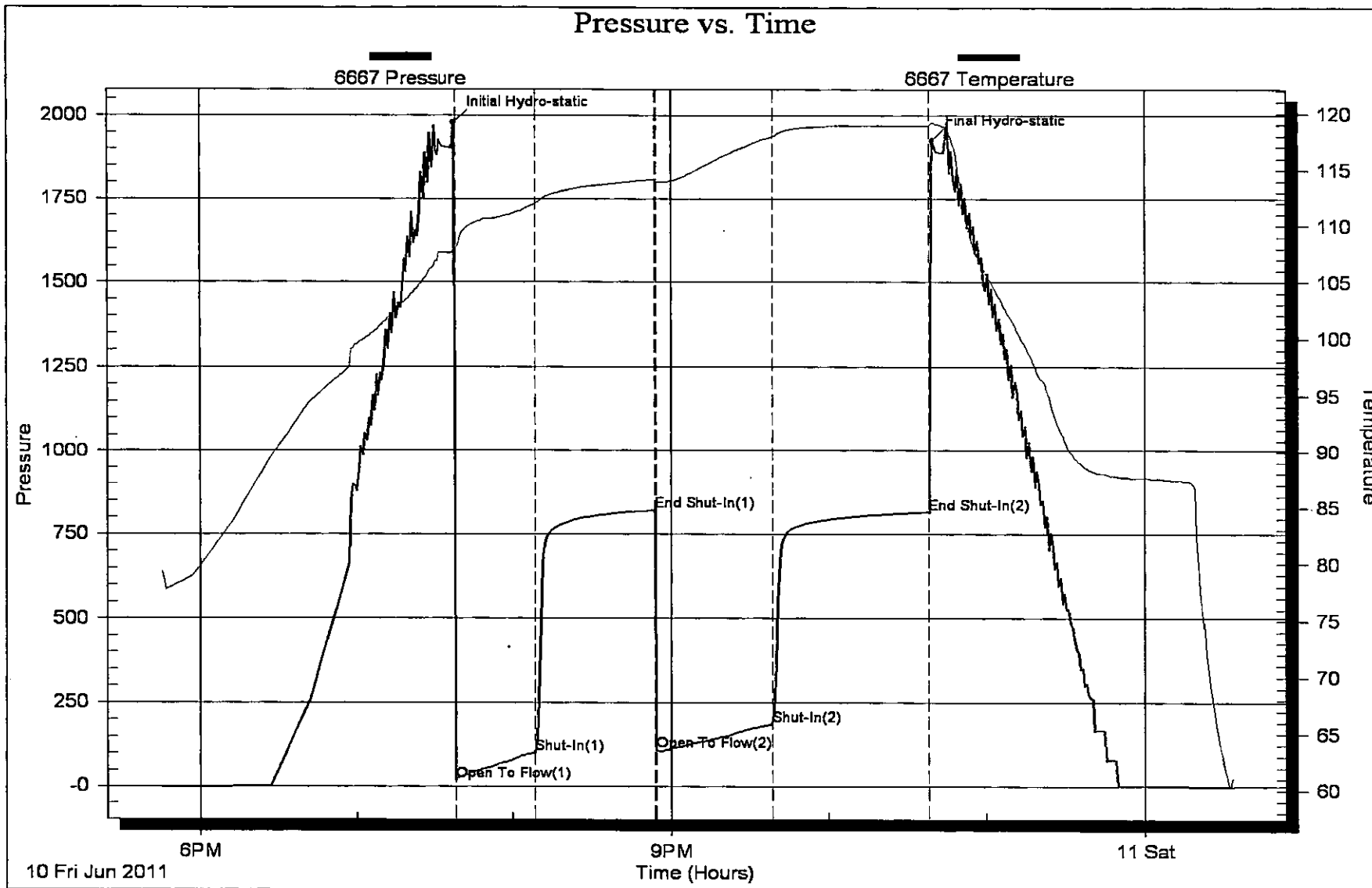
Num Gas Bombs: 0

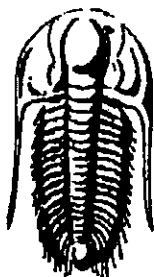
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

ShIPLEY #1 28B

Start Date: 2011.06.11 @ 07:41:10

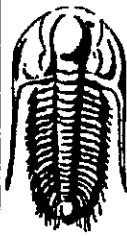
End Date: 2011.06.11 @ 13:55:10

Job Ticket #: 43325 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

ATTN: Mike Engelbrecht

Job Ticket: 43325

DST#: 6

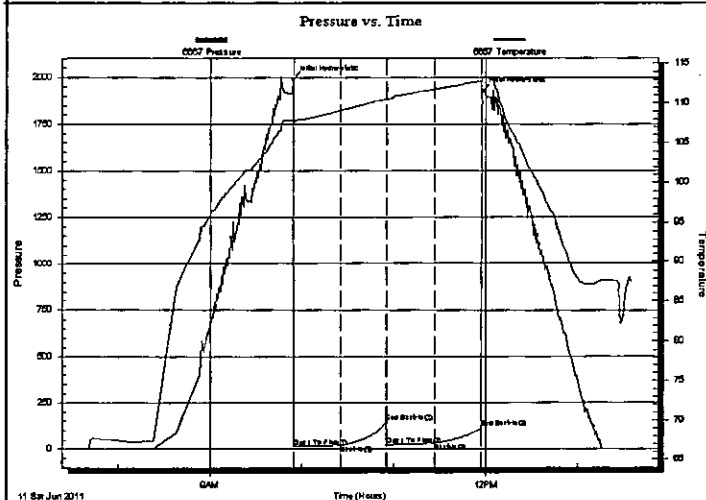
Test Start: 2011.06.11 @ 07:41:10

GENERAL INFORMATION:

Formation: **J**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 09:54:40
 Time Test Ended: 13:55:10
 Interval: **4081.00 ft (KB) To 4110.00 ft (KB) (TVD)**
 Total Depth: **4110.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2844.00 ft (KB)
 2833.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: **6667** Outside
 Press@RunDepth: 30.98 psig @ 4082.00 ft (KB)
 Start Date: 2011.06.11 End Date: 2011.06.11
 Start Time: 07:41:10 End Time: 13:35:10
 Capacity: 8000.00 psig
 Last Calib.: 2011.06.11
 Time On Btm: 2011.06.11 @ 09:54:10
 Time Off Btm: 2011.06.11 @ 11:57:25

TEST COMMENT: Weak blow died in 5 min
 No return
 No blow ,flush tool ,good surge, no blow
 No return



PRESSURE SUMMARY

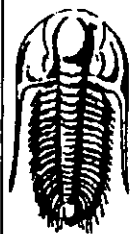
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.15	107.93	Initial Hydro-static
1	14.19	107.36	Open To Flow (1)
31	20.15	109.11	Shut-In(1)
61	147.04	110.56	End Shut-In(1)
61	22.73	110.50	Open To Flow (2)
92	30.98	111.81	Shut-In(2)
123	114.48	112.78	End Shut-In(2)
124	1923.51	113.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w /oil spots	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

Job Ticket: 43325

DST#: 6

ATTN: Mike Engelbrecht

Test Start: 2011.06.11 @ 07:41:10

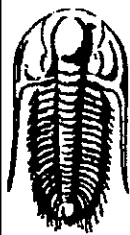
Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 52.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4081.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 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			4062.00	
Shut In Tool	5.00			4067.00	
Hydraulic tool	5.00			4072.00	
Packer	5.00			4077.00	20.00 Bottom Of Top Packer
Packer	4.00			4081.00	
Stubb	1.00			4082.00	
Recorder	0.00	6771	Inside	4082.00	
Recorder	0.00	6667	Outside	4082.00	
Perforations	23.00			4105.00	
Bullnose	5.00			4110.00	29.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

ShIPLEY #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove,KS

Job Ticket: 43325

DST#: 6

ATTN: Mike Engelbrecht

Test Start: 2011.06.11 @ 07:41:10

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

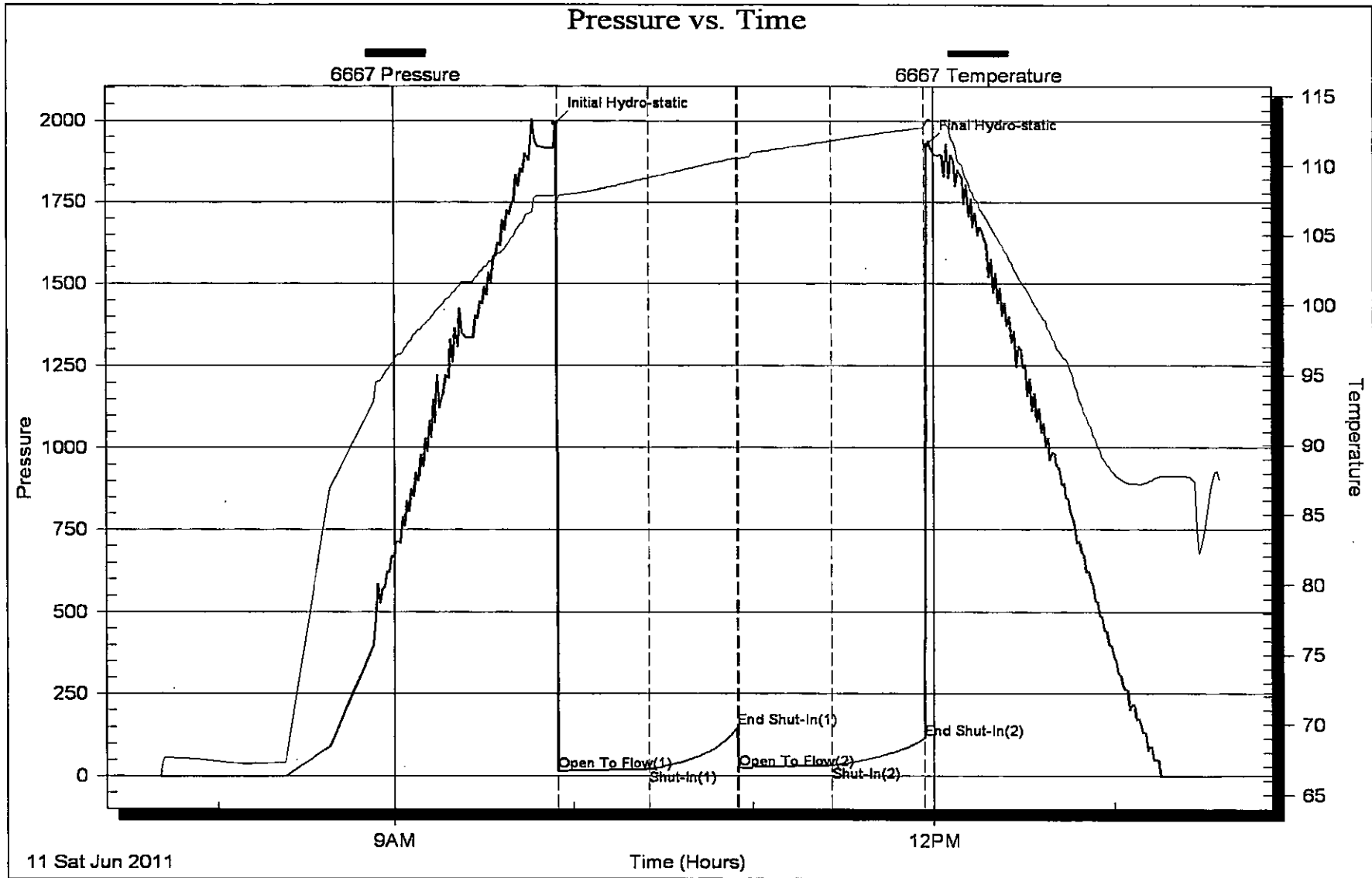
Length ft	Description	Volume bbl
10.00	mud w/oil spots	0.049

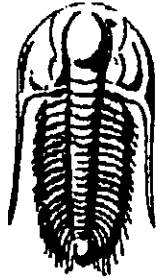
Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

Shibley #1 28B

Start Date: 2011.06.12 @ 00:00:52

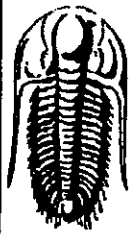
End Date: 2011.06.12 @ 08:05:07

Job Ticket #: 43251 DST #: 7

Trilobite Testing, Inc

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration

ShIPLEY #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

Job Ticket: 43251

DST#: 7

ATTN: Mike Engelbrecht

Test Start: 2011.06.12 @ 00:00:52

GENERAL INFORMATION:

Formation: K-L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:18:52

Time Test Ended: 08:05:07

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 55

Interval: 4105.00 ft (KB) To 4180.00 ft (KB) (TVD)

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2844.00 ft (KB)

2833.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667

Outside

Press@RunDepth: 152.57 psig @ 4106.00 ft (KB)

Start Date: 2011.06.12

End Date:

2011.06.12

Start Time: 00:00:52

End Time:

07:34:07

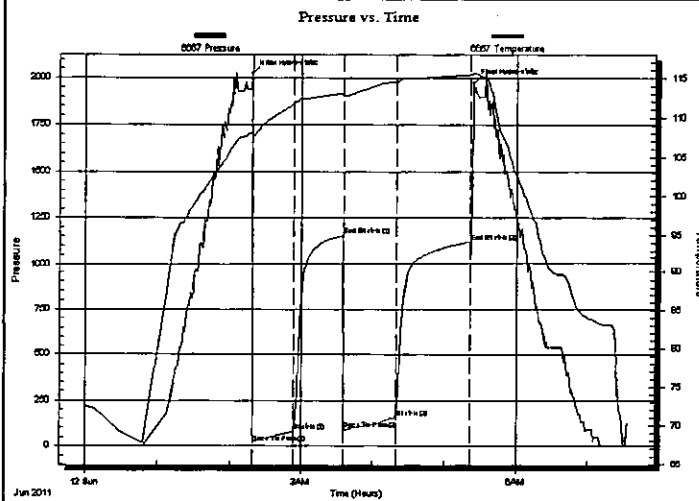
Capacity: 8000.00 psig

Last Calib.: 2011.06.12

Time On Btm: 2011.06.12 @ 02:18:22

Time Off Btm: 2011.06.12 @ 05:23:52

TEST COMMENT: B.O.B. in 14 min.
No return
B.O.B. in 16 min.
Surface return died in 25 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.96	108.15	Initial Hydro-static
1	17.85	107.68	Open To Flow (1)
36	80.48	111.77	Shut-In(1)
78	1155.19	113.07	End Shut-In(1)
78	88.17	112.75	Open To Flow (2)
121	152.57	114.58	Shut-In(2)
184	1122.67	115.48	End Shut-In(2)
186	1973.91	115.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	c g o 15%g 85%o	0.07
120.00	m c g o 20%g 40%m 40%o	0.59
180.00	g o c m 40%g 10%o 50%m	0.89
0.00	1125' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration
8100 E 22nd St N#700
Wichita, KS 67278

Shipley #1 28B
28-13-31 Gove, KS
Job Ticket: 43251 DST#: 7
Test Start: 2011.06.12 @ 00:00:52

ATTN: Mike Engelbrecht

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 110000.0 lb
			Total Volume: 52.89 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4105.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 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			4086.00	
Shut In Tool	5.00			4091.00	
Hydraulic tool	5.00			4096.00	
Packer	5.00			4101.00	20.00 Bottom Of Top Packer
Packer	4.00			4105.00	
Stubb	1.00			4106.00	
Recorder	0.00	6771	Inside	4106.00	
Recorder	0.00	6667	Outside	4106.00	
Perforations	4.00			4110.00	
Change Over Sub	1.00			4111.00	
Drill Pipe	63.00			4174.00	
Change Over Sub	1.00			4175.00	
Bullnose	5.00			4180.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Shibley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove,KS

ATTN: Mike Engelbrecht

Job Ticket: 43251

DST#: 7

Test Start: 2011.06.12 @ 00:00:52

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.58 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4400.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	c g o 15%g 85%o	0.074
120.00	m c g o 20%g 40%m 40%o	0.590
180.00	g o c m 40%g 10%o 50%m	0.885
0.00	1125' gas in pipe	0.000

Total Length: 315.00 ft Total Volume: 1.549 bbl

Num Fluid Samples: 0

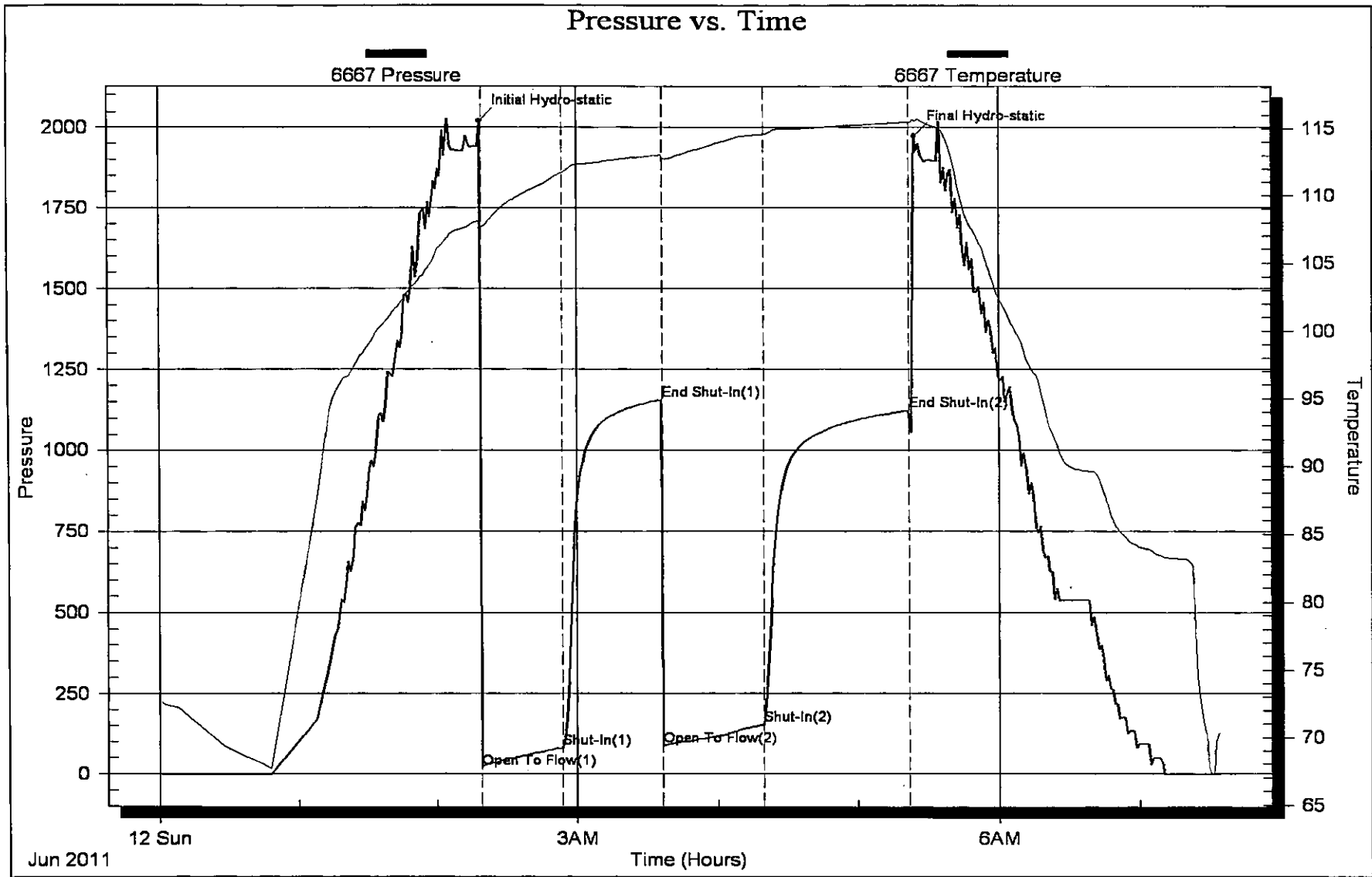
Num Gas Bombs: 0

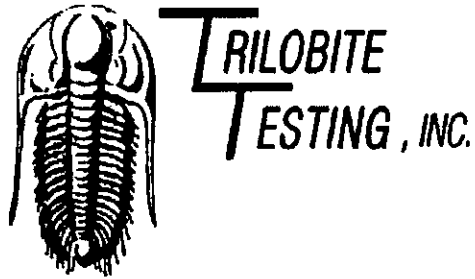
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

Shibley #1 28B

Start Date: 2011.06.13 @ 02:25:16

End Date: 2011.06.13 @ 08:20:01

Job Ticket #: 43252 DST #: 8

Trilobite Testing, Inc
PO Box 362 \ Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
8100 E 22nd St N#700
Wichita, KS 67278
ATTN: Mike Engelbrecht

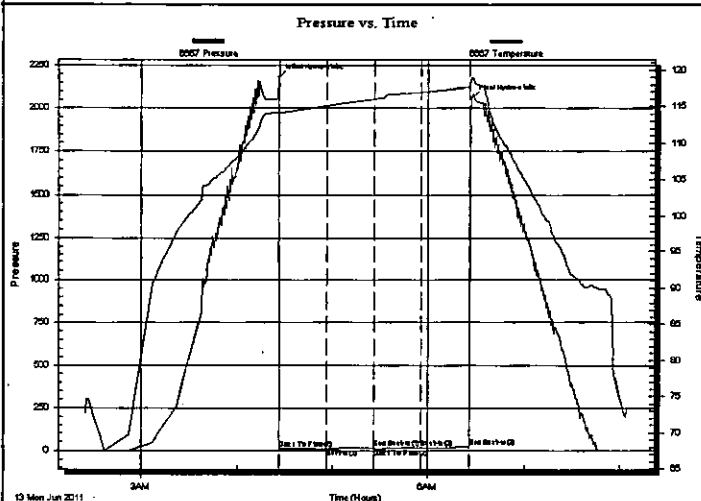
Shipley #1 28B
28-13-31 Gove,KS
Job Ticket: 43252 DST#: 8
Test Start: 2011.06.13 @ 02:25:16

GENERAL INFORMATION:

Formation: **Myrick St-Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:26:16
Time Test Ended: 08:20:01
Interval: **4324.00 ft (KB) To 4378.00 ft (KB) (TVD)**
Total Depth: **4378.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Reference Elevations: 2844.00 ft (KB)
2833.00 ft (CF)
KB to GR/CF: 11.00 ft
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 55

Serial #: 6667 Outside
Press@RunDepth: 17.17 psig @ 4325.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.06.13 End Date: 2011.06.13 Last Calib.: 2011.06.13
Start Time: 02:25:16 End Time: 08:05:01 Time On Btm: 2011.06.13 @ 04:25:46
Time Off Btm: 2011.06.13 @ 06:26:46

TEST COMMENT: Weak blow died in 5 min
No return
No blow, flush tool, good surge, no blow
No return



PRESSURE SUMMARY

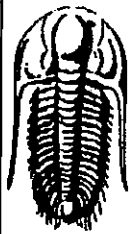
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.53	114.29	Initial Hydro-static
1	12.03	113.44	Open To Flow (1)
31	12.97	115.03	Shut-In(1)
61	18.77	115.96	End Shut-In(1)
61	12.13	115.96	Open To Flow (2)
90	17.17	116.97	Shut-In(2)
120	21.35	117.69	End Shut-In(2)
121	2059.23	118.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

Job Ticket: 43252

DST#: 8

ATTN: Mke Engelbrecht

Test Start: 2011.06.13 @ 02:25:16

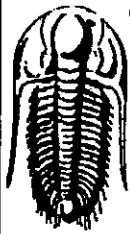
Tool Information

Drill Pipe:	Length: 3803.00 ft	Diameter: 3.80 inches	Volume: 53.35 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 55.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4324.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 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			4305.00	
Shut In Tool	5.00			4310.00	
Hydraulic tool	5.00			4315.00	
Packer	5.00			4320.00	20.00 Bottom Of Top Packer
Packer	4.00			4324.00	
Stubb	1.00			4325.00	
Recorder	0.00	6771	Inside	4325.00	
Recorder	0.00	6667	Outside	4325.00	
Perforations	15.00			4340.00	
Change Over Sub	1.00			4341.00	
Drill Pipe	31.00			4372.00	
Change Over Sub	1.00			4373.00	
Bullnose	5.00			4378.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

ATTN: Mike Engelbrecht

Job Ticket: 43252

DST#: 8

Test Start: 2011.06.13 @ 02:25:16

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

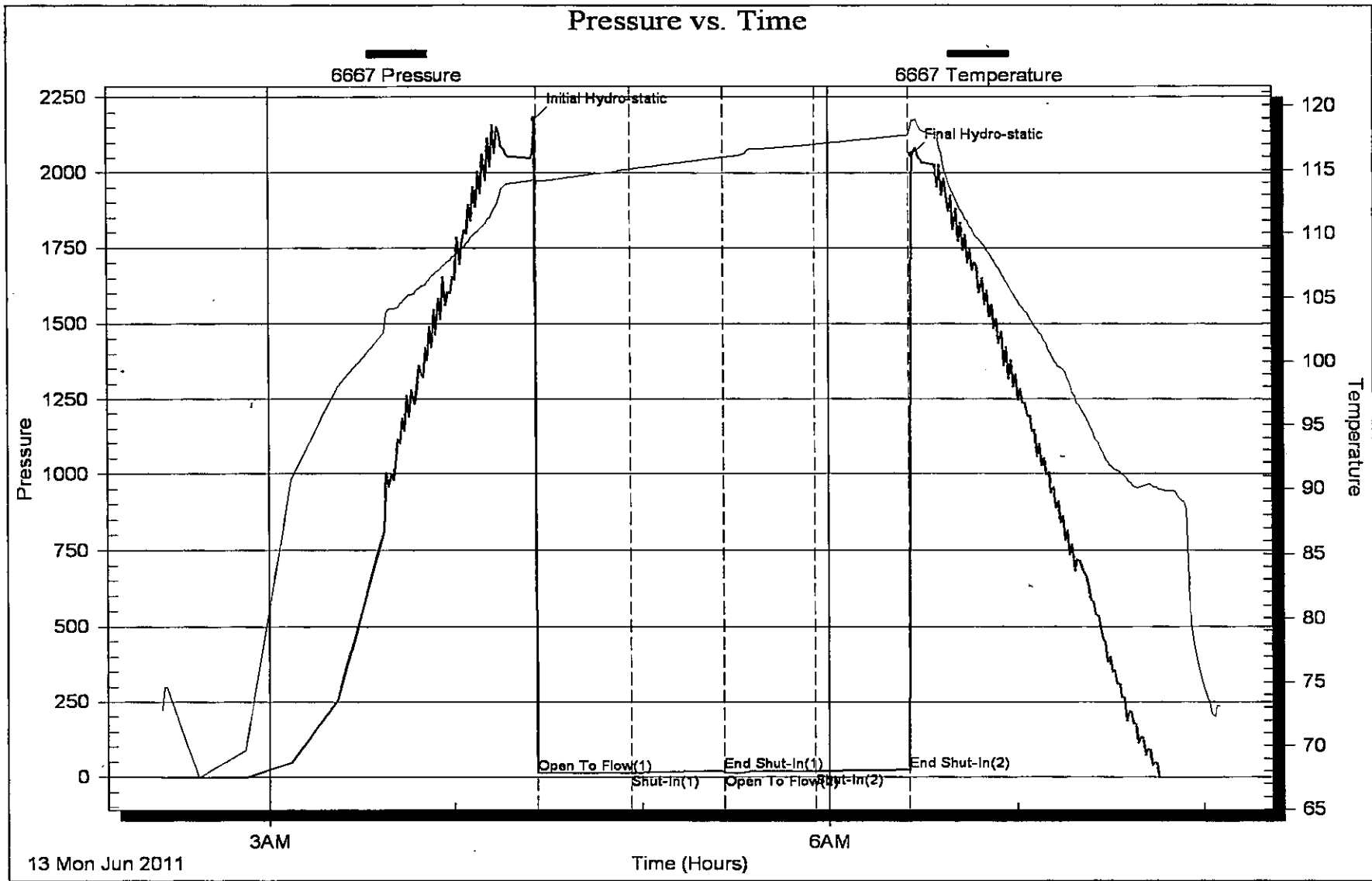
Length ft	Description	Volume bbl
3.00	mud 100%m	0.015

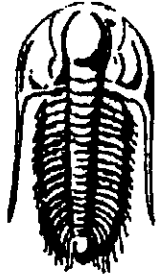
Total Length: 3.00 ft Total Volume: 0.015 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N#700
Wichita, KS 67278

ATTN: Mike Engelbrecht

28-13-31 Gove,KS

Shipley #1 28B

Start Date: 2011.06.13 @ 18:50:15

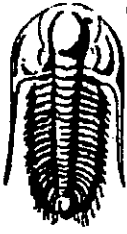
End Date: 2011.06.14 @ 01:40:45

Job Ticket #: 43253 DST #: 9

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
8100 E 22nd St N#700
Wichita, KS 67278
ATTN: Mike Engelbrecht

Shipley #1 28B
28-13-31 Gove, KS
Job Ticket: 43253 DST#: 9
Test Start: 2011.06.13 @ 18:50:15

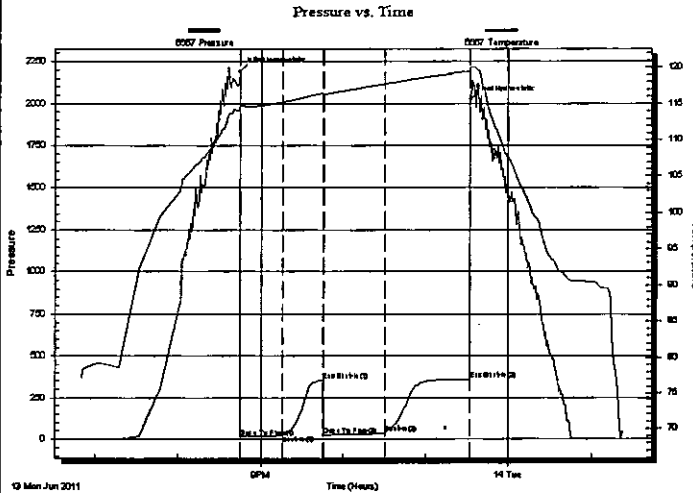
GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:45:00
Time Test Ended: 01:40:45
Interval: **4410.00 ft (KB) To 4444.00 ft (KB) (TVD)**
Total Depth: **4444.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 55
Reference Elevations: 2844.00 ft (KB)
2833.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: **6667** Outside
Press@RunDepth: 36.85 psig @ 4411.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.06.13 End Date: 2011.06.14 Last Calib.: 2011.06.14
Start Time: 18:50:15 End Time: 01:23:45 Time On Btm: 2011.06.13 @ 20:44:45
Time Off Btm: 2011.06.13 @ 23:32:30

TEST COMMENT: 1/8" in blow
No return
5" in blow
No return

PRESSURE SUMMARY



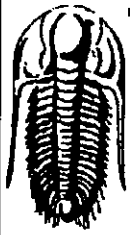
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.00	114.88	Initial Hydro-static
1	14.93	114.46	Open To Flow (1)
31	21.87	115.20	Shut-In(1)
60	354.57	116.42	End Shut-In(1)
61	23.63	116.28	Open To Flow (2)
106	36.85	117.71	Shut-In(2)
168	359.92	119.43	End Shut-In(2)
168	2021.31	119.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	m c o 40% m 60% o	0.22
0.00	45' slight gas odor	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove, KS

Job Ticket: 43253

DST#: 9

ATTN: Mike Engelbrecht

Test Start: 2011.06.13 @ 18:50:15

Tool Information

Drill Pipe:	Length: 3868.00 ft	Diameter: 3.80 inches	Volume: 54.26 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 56.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4410.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 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			4391.00	
Shut In Tool	5.00			4396.00	
Hydraulic tool	5.00			4401.00	
Packer	5.00			4406.00	20.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	6771	Inside	4411.00	
Recorder	0.00	6667	Outside	4411.00	
Perforations	28.00			4439.00	
Bullnose	5.00			4444.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Shipley #1 28B

8100 E 22nd St N#700
Wichita, KS 67278

28-13-31 Gove,KS

Job Ticket: 43253

DST#: 9

ATTN: Mike Engelbrecht

Test Start: 2011.06.13 @ 18:50:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	m c o 40% m 60%	0.221
0.00	45' slight gas odor	0.000

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

