

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

11/1/12

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 7311
Name: Shakespeare Oil Company, Inc.
Address: 202 West Main Street
City/State/Zip: Salem, IL 62881
Purchaser: NCRA
Operator Contact Person: Donald R. Williams
Phone: (618) 548-1585
Contractor: Name: HD Drilling, LLC
License: 33935
Wellsite Geologist: Steve Davis

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Designate Type of Completion:

- New Well Re-Entry Workover
- Oil SWD SIOW Temp. Abd.
- Gas ENHR SIGW
- 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./SWD
- Plug Back Plug Back Total Depth
- Commingled Docket No. _____
- Dual Completion Docket No. _____
- Other (SWD or Enhr.?) Docket No. _____

8/12/10 8/26/10 9/22/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 171-20770 - 0060

County: Scott

SE SW NE SW Sec. 14 Twp. 16 S. R. 34 East West

1550 feet from S (circle one) Line of Section

1850 feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW (SW)

Lease Name: Radnor Well #: 1-14

Field Name: Wildcat

Producing Formation: Johnson, Ft. Scott, Myrick Station

Elevation: Ground: 3115' Kelly Bushing: 3125'

Total Depth: 4950' Plug Back Total Depth: 4740'

Amount of Surface Pipe Set and Cemented at 348' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2740' Feet

If Alternate II completion, cement circulated from 2740'

feet depth to surface w/ 500 sx cmt.

Drilling Fluid Management Plan ATTAINS H-4-10
(Data must be collected from the Reserve Pit)

Chloride content 6500 ppm Fluid volume 2500 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name: _____

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: Donald R. Williams

Title: Vice President Date: 11/1/10

Subscribed and sworn to before me this 1st day of November

20 10
Notary Public: Melissa A. Noel

Date Commission Expires: 11-6-11



KCC Office Use ONLY

- Letter of Confidentiality Received 11/1/10 - 11/1/12
- If Denied, Yes Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution

Operator Name: Shakespeare Oil Company, Inc. Lease Name: Radnor Well #: 1-14
 Sec. 14 Twp. 16 S. R. 34 East West County: Scott

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: Array Ind, CDL/CNL/GR, ML & Sonic	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Geological Report
--	---

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#	348'	Class A	240	2% gel, 3% CaCl
Production	7 7/8"	4 1/2"	10.5#	4794'	ASC	195	5#/sk coal-seal & 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 checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2740'-0'	Pozmix	500	65-35 poz w/8% gel & 1/4"/sk flocele

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>		Depth
4	Johnson	500 gal 15% NeFe		4558-62, 4698-72, 4812-12
4	Ft. Scott	500 gal 15% NEFe		4574-79
4	Myrick Station	500 gal 15% NEFe		4559-62

TUBING RECORD		Size 2 3/8"	Set At 4725'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 9/22/10			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. 33	Gas Mcf N/A	Water Bbls. 5	Gas-Oil Ratio	Gravity 34

Disposition of Gas **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18.) Other (Specify) _____



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887

Fax: (785) 483-5566

INVOICE

Invoice Number: 124281

Invoice Date: Aug 30, 2010

Page:

KCC
NOV 01 2010
CONFIDENTIAL

Bill To:
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

File *INT*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Radnor #1-14	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Aug 30, 2010	9/29/10

Quantity	Item	Description	Unit Price	Amount
325.00	MAT	Class A Common	15.45	5,021.25
175.00	MAT	Pozmix	8.00	1,400.00
35.00	MAT	Gel	20.80	728.00
108.00	MAT	Flo Seal	2.50	270.00
766.00	SER	Handling	2.40	1,838.40
40.00	SER	Mileage 766 sx @ .10 per sk per mi	76.60	3,064.00
1.00	SER	Port Collar	1,185.00	1,185.00
40.00	SER	Pump Truck Mileage	7.00	280.00

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 SEP 07 2010

Subtotal	13,786.65
Sales Tax	541.61
Total Invoice Amount	14,328.26
Payment/Credit Applied	
TOTAL	14,328.26

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ **2,157.33**

ONLY IF PAID ON OR BEFORE

Sep 24, 2010

ALLIED CEMENTING CO., LLC. 035445

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

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CONFIDENTIAL

SERVICE POINT:
Oakley, KS

DATE <u>8/30/10</u>	SEC. <u>14</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00p</u>	JOB FINISH <u>3:00p</u>
LEASE <u>Radnor</u>	WELL # <u>1-14</u>	LOCATION <u>Pence 1 1/2 E N 1/4 W into</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR

TYPE OF JOB Part collar

HOLE SIZE _____ T.D. _____

CASING SIZE 4 1/2 _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Part Collar _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER

CEMENT

AMOUNT ORDERED 700 SKS 65/35 800028

114 16 Flo Seal

500 lb Hullo On Side (used 500 SKS)

COMMON	<u>325</u>	@	<u>1545</u>	<u>5021²⁵</u>
POZMIX	<u>175</u>	@	<u>8⁰⁰</u>	<u>1400⁰⁰</u>
GEL	<u>35</u>	@	<u>20⁰⁰</u>	<u>728⁰⁰</u>
CHLORIDE		@		
ASC		@		
	<u>108 16 Flo Seal</u>	@	<u>250</u>	<u>270⁰⁰</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>766 SKS</u>	@	<u>240</u>	<u>1838⁴⁰</u>
MILEAGE	<u>104 SK/mile</u>			<u>3064⁰⁰</u>
TOTAL				<u>12321⁶⁵</u>

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK

386 DRIVER WJ

BULK TRUCK

394 DRIVER Jerry

REMARKS:
Part collar...

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PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

INVOICE

Invoice Number: 124233
Invoice Date: Aug 26, 2010
Page: 1

KCC
NOV 01 2010
CONFIDENTIAL

Bill To:
Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

File Copy

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Radner #1-14	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Aug 26, 2010	9/25/10

Quantity	Item	Description	Unit Price	Amount
4.00	MAT	Gel	20.80	83.20
225.00	MAT	ASC Class A	18.60	4,185.00
1,125.00	MAT	Gilsonite	0.89	1,001.25
159.00	MAT	CD-31	9.35	1,486.65
500.00	MAT	WFR-2	1.27	635.00
254.00	SER	Handling	2.40	609.60
40.00	SER	Mileage 254 sx @ .10 per sk per mi	25.40	1,016.00
1.00	SER	Production Casing	2,185.00	2,185.00
40.00	SER	Pump truck Mileage	7.00	280.00

INT

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SEP 07 2010
REGISTERED

RECEIVED
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ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 2296.34

ONLY IF PAID ON OR BEFORE
Sep 20, 2010

Subtotal	11,481.70
Sales Tax	539.55
Total Invoice Amount	12,021.25
Payment/Credit Applied	
TOTAL	12,021.25

ALLIED CEMENTING CO., LLC. 038988

NOV 01 2010
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REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

02112 KS
8-26-10 8-27-10

DATE <u>8-26-10</u>	SEC. <u>14</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>10:00pm</u>	JOB START <u>4:30am</u>	JOB FINISH <u>5:00am</u>
LEASE <u>Radnor</u>	WELL# <u>1-14</u>	LOCATION <u>Pencil 1/2 c - inside</u>			COUNTY <u>Stott</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>H-D #2</u>	OWNER
TYPE OF JOB <u>Production</u>	CEMENT
HOLE SIZE <u>7 7/8</u>	T.D. <u>4950' 42</u>
CASING SIZE <u>4" 2 10.5</u>	DEPTH <u>4794</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>4265</u>
CEMENT LEFT IN CSG. <u>4265</u>	
PERFS.	
DISPLACEMENT <u>75.5 BBL</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Fuzzy</u>	
# <u>421</u> HELPER <u>Kelly</u>	
BULK TRUCK	
# <u>347</u> DRIVER <u>Darin</u>	
BULK TRUCK	
# DRIVER	

AMOUNT ORDERED <u>225 SKS ASC</u>	
<u>205 SKS 5# @ 1/5K 314 @ 10%</u>	
<u>CD-31 500 gal WFA II</u>	
COMMON	@
POZMIX	@
GEL <u>400</u>	@ <u>20.00</u> <u>83.20</u>
CHLORIDE	@
ASC <u>225</u>	@ <u>18.50</u> <u>4185.00</u>
<u>G-Ironite 1125#</u>	@ <u>1.89</u> <u>1001.25</u>
<u>CD-31 159#</u>	@ <u>9.32</u> <u>1486.65</u>
<u>WFA II 500</u>	@ <u>1.27</u> <u>635.00</u>
HANDLING <u>254</u>	@ <u>2.40</u> <u>609.60</u>
MILEAGE <u>104.5 km</u>	@ <u>10.16</u> <u>1016.00</u>
TOTAL <u>9016.70</u>	

REMARKS:

Pump 5 BBL water - 500 gal WFA II
15 BBL water, mix 30 SKS BH
Mix 195 SKS cement down casing
Wash pump & lines, Drop plug
& displace to latchdown. 800#
Lit. 1400# land. Plug down
@ 4:45 am Thanks Fuzzy
total

SERVICE

DEPTH OF JOB <u>4794</u>	
PUMP TRUCK CHARGE	<u>2185.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>40</u>	@ <u>7.00</u> <u>280.00</u>
MANIFOLD	@
	@
	@

TOTAL 2465.00

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@

TOTAL _____

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

CHARGE TO: Shakerpeace
STREET _____
CITY _____ STATE _____ ZIP _____

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

PRINTED NAME Doug Roberts
SIGNATURE Doug Robert



PO BOX 31 Russell, KS 67665

KCC
NOV 01 2010
CONFIDENTIAL

INVOICE

Invoice Number: 123986
Invoice Date: Aug 12, 2010
Page: 1

Voice: (785) 483-3887
Fax: (785) 483-5566

Bill To:
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

file copy

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Radnor #1-14	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 12, 2010	9/11/10

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	15.45	3,708.00
5.00	MAT	Gel	20.80	104.00
9.00	MAT	Chloride	58.20	523.80
253.00	SER	Handling	2.40	607.20
40.00	SER	Mileage 253 sx @ .10 per sk per mi	25.30	1,012.00
1.00	SER	Surface	1,018.00	1,018.00
40.00	SER	Pump Truck Mileage	7.00	280.00

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AUG 20 2010
KCC WICHITA

Subtotal	7,253.00
Sales Tax	316.51
Total Invoice Amount	7,569.51
Payment/Credit Applied	
TOTAL	7,569.51

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1450.60

ONLY IF PAID ON OR BEFORE
Sep 6, 2010

ALLIED CEMENTING CO., LLC. 035432

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

KCC
NOV 01 2010

SERVICE POINT:

Dakky

CONFIDENTIAL

DATE <i>8/12/10</i>	SEC. <i>14</i>	TWP. <i>16</i>	RANGE <i>34</i>	CALC. <i>CONFIDENTIAL</i>	ON LOCATION	JOB START <i>2:30 PM</i>	JOB FINISH <i>3:00 PM</i>
WELL # <i>1-14</i>		LOCATION <i>Penca 1 1/2 E Nowinto</i>			COUNTY <i>Scott</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)							

CONTRACTOR *H.D. Drilling*

TYPE OF JOB *Surface*

PIPE SIZE *12"4* T.D. *351*

HOUSING SIZE *8 1/8* DEPTH *351*

HOUSING SIZE DEPTH

DRILL PIPE DEPTH

HOLES DEPTH

WEIGHTS MAX MINIMUM

WEIGHTS LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

WEIGHTS RFS.

WEIGHTS SPLACEMENT *21.40*

OWNER *Same*

CEMENT AMOUNT ORDERED *240 con 370 cc 290 gal*

COMMON	<i>240</i>	@ <i>15⁴⁵</i>	<i>3708⁰⁰</i>
POZMIX		@	
GEL	<i>5</i>	@ <i>20⁸⁰</i>	<i>104⁰⁰</i>
CHLORIDE	<i>9</i>	@ <i>58²⁰</i>	<i>523⁸⁰</i>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>253 SKI</i>	@ <i>2¹⁰</i>	<i>607²⁰</i>
MILEAGE	<i>10.95 MI</i>	@	<i>1012⁰⁰</i>
TOTAL			<i>5955⁰⁰</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

PUMP TRUCK HELPER *Wayne*

MILK TRUCK DRIVER *Darren*

MILK TRUCK DRIVER

REMARKS:

Cement did circulate

Thank you Alan, Wayne, Darren

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<i>1018⁰⁰</i>
EXTRA FOOTAGE		@	
MILEAGE	<i>40 miles</i>	@ <i>7⁰⁰</i>	<i>280⁰⁰</i>
MANIFOLD		@	
		@	
		@	
TOTAL			<i>1298⁰⁰</i>

CHARGE TO: *Shakespeare*

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

Allied Cementing Co., LLC.

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

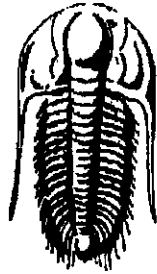
SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME *Doug Roberts*

SIGNATURE *Doug Roberts*



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Shakespeare**

202 West Main Street
Salem IL 62881

ATTN: Steve Davis

14-16-34 Scott Co.KS

Radnor #1-14

Start Date: 2010.08.21 @ 07:16:01

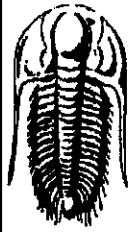
End Date: 2010.08.21 @ 13:53:45

Job Ticket #: 039713 DST #: 1

NOV 01 2010
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Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

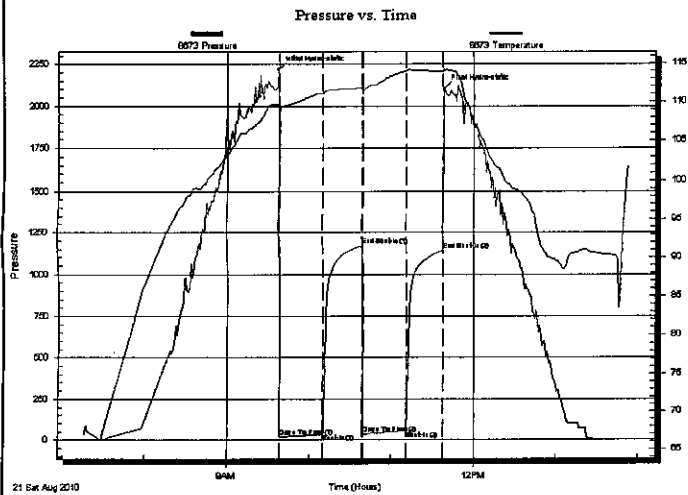
Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039713 **DST#: 1**
Test Start: 2010.08.21 @ 07:16:01

GENERAL INFORMATION:

Formation: **Lansing "J"**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 09:38:30
Time Test Ended: 13:53:45
Interval: **4283.00 ft (KB) To 4305.00 ft (KB) (TVD)**
Total Depth: **4305.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Mike Roberts**
Unit No: **28**
Reference Elevations: **3125.00 ft (KB)**
3115.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 8673 **Inside**
Press@RunDepth: **54.08 psig @ 4285.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.21** End Date: **2010.08.21** Last Calib.: **2010.08.21**
Start Time: **07:16:01** End Time: **13:53:45** Time On Btm: **2010.08.21 @ 09:37:30**
Time Off Btm: **2010.08.21 @ 11:38:45**

TEST COMMENT: IF:Built to surface blow
IS:No return blow
FF:Built to weak surface blow
FS:No return blow



PRESSURE SUMMARY

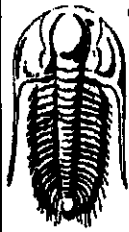
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2218.57	109.78	Initial Hydro-static
1	17.23	108.37	Open To Flow (1)
33	33.44	111.02	Shut-In(1)
62	1169.22	111.74	End Shut-In(1)
62	35.08	111.36	Open To Flow (2)
94	54.08	113.95	Shut-In(2)
121	1140.20	113.85	End Shut-In(2)
122	2100.59	114.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbi)
60.00	m 100% m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039713 DST#: 1
Test Start: 2010.08.21 @ 07:16:01

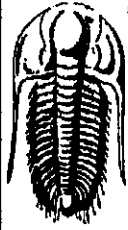
Tool Information

Drill Pipe:	Length: 4165.00 ft	Diameter: 3.80 inches	Volume: 58.42 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4283.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 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			4257.00	
Shut In Tool	5.00			4262.00	
Hydraulic tool	5.00			4267.00	
Jars	5.00			4272.00	
Safety Joint	2.00			4274.00	
Packer	5.00		Fluid	4279.00	27.00 Bottom Of Top Packer
Packer	4.00			4283.00	
Stubb	1.00			4284.00	
Perforations	1.00			4285.00	
Recorder	0.00	8654	Inside	4285.00	
Recorder	0.00	8673	Inside	4285.00	
Perforations	17.00			4302.00	
Bullnose	3.00			4305.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare

Radnor #1-14

202 West Main Street
Salem IL 62881

14-16-34 Scott Co.KS

Job Ticket: 039713

DST#: 1

ATTN: Steve Davis

Test Start: 2010.08.21 @ 07:16:01

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: 70.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.72 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	m 100% m	0.295

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

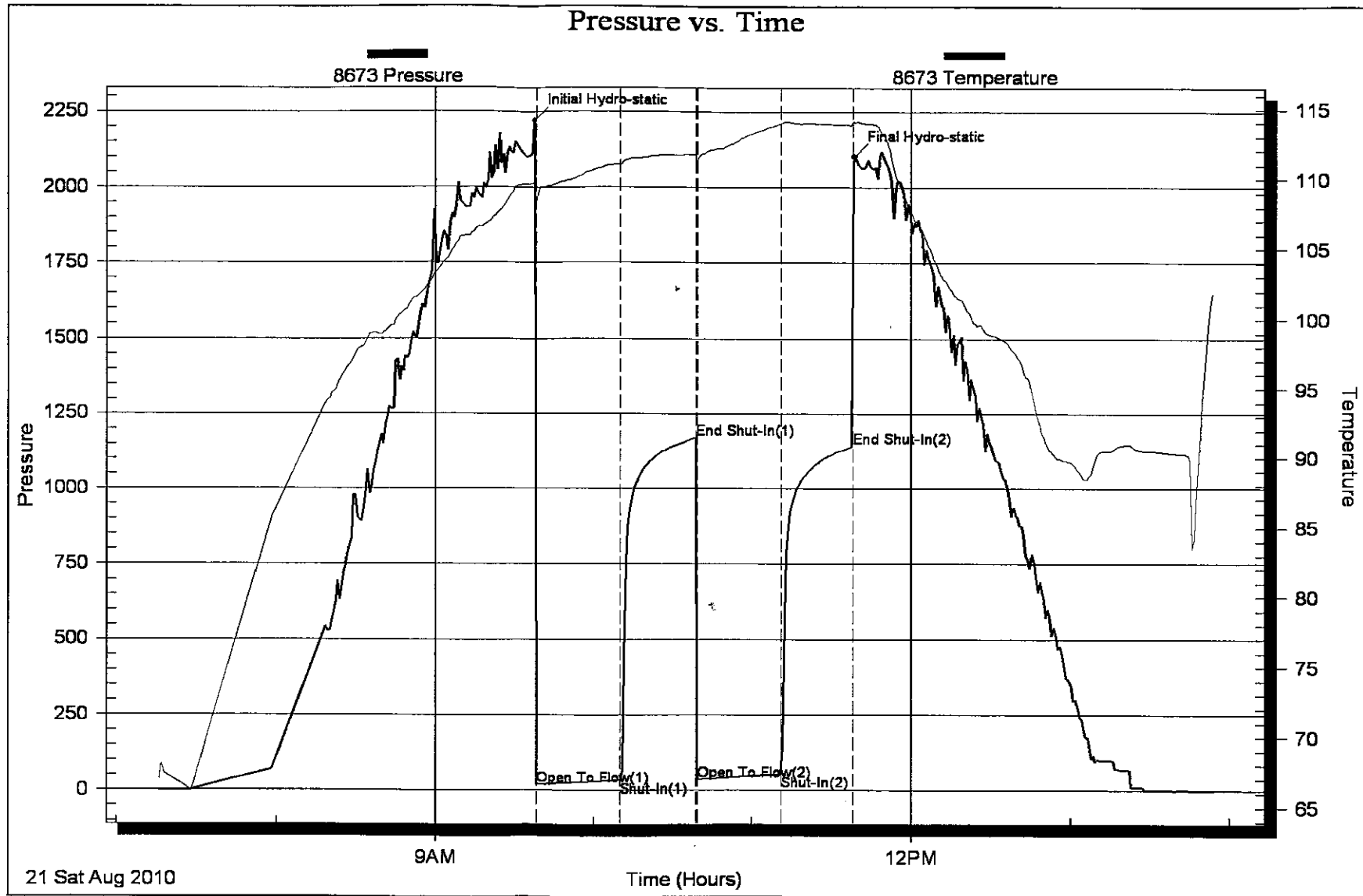
Num Gas Bombs: 0

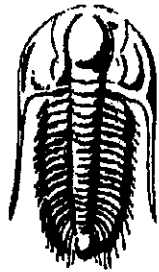
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Shakespeare**

202 West Main Street
Salem IL 62881

ATTN: Steve Davis

14-16-34 Scott Co.KS

Radnor #1-14

Start Date: 2010.08.22 @ 14:31:01

End Date: 2010.08.22 @ 22:04:15

Job Ticket #: 039714 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Shakespeare

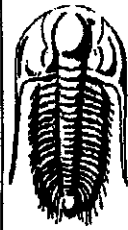
Radnor #1-14

14-16-34 Scott Co.KS

DST # 2

Altamont "A"

2010.08.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

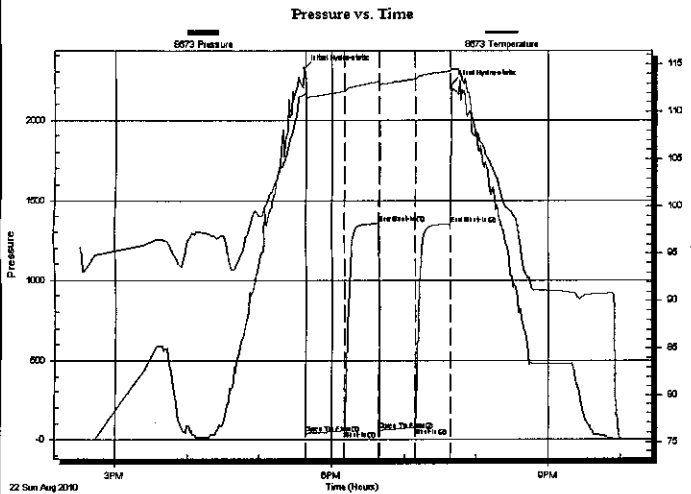
Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039714 **DST#: 2**
Test Start: 2010.08.22 @ 14:31:01

GENERAL INFORMATION:

Formation: **Altamont "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:38:15
Time Test Ended: 22:04:15
Interval: **4411.00 ft (KB) To 4482.00 ft (KB) (TVD)**
Total Depth: **4482.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**
Test Type: **Conventional Bottom Hole**
Tester: **Mike Roberts**
Unit No: **28**
Reference Elevations: **3125.00 ft (KB)**
3115.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 8673 **Inside**
Press@RunDepth: **75.20 psig @ 4419.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.22** End Date: **2010.08.22** Last Calib.: **2010.08.22**
Start Time: **14:31:01** End Time: **22:04:15** Time On Btm: **2010.08.22 @ 17:36:45**
Time Off Btm: **2010.08.22 @ 19:39:30**

TEST COMMENT: IF:Built to weak surface blow
IS:No return blow
FF:Built to weak surface blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2316.81	111.80	Initial Hydro-static
2	37.40	111.23	Open To Flow (1)
34	54.06	112.19	Shut-In(1)
62	1352.42	113.18	End Shut-In(1)
63	57.92	112.70	Open To Flow (2)
93	75.20	113.45	Shut-In(2)
122	1348.51	114.29	End Shut-In(2)
123	2217.86	114.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	mcw 30% m 70% w	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare

Radnor #1-14

202 West Main Street
Salem IL 62881

14-16-34 Scott Co.KS

Job Ticket: 039714

DST#: 2

ATTN: Steve Davis

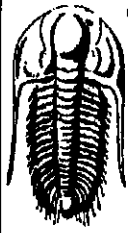
Test Start: 2010.08.22 @ 14:31:01

Tool Information

Drill Pipe:	Length: 4286.00 ft	Diameter: 3.80 inches	Volume: 60.12 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: 128.00 ft	Diameter: 2.25 inches	Volume: 0.63 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			
Depth to Top Packer:	4411.00 ft			
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	98.00 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			4385.00	
Shut In Tool	5.00			4390.00	
Hydraulic tool	5.00			4395.00	
Jars	5.00			4400.00	
Safety Joint	2.00			4402.00	
Packer	5.00		Fluid	4407.00	27.00 Bottom Of Top Packer
Packer	4.00			4411.00	
Stubb	1.00			4412.00	
Perforations	5.00			4417.00	
Perforations	1.00			4418.00	
Change Over Sub	1.00			4419.00	
Recorder	0.00	8654	Inside	4419.00	
Recorder	0.00	8673	Inside	4419.00	
Drill Pipe	30.00			4449.00	
Change Over Sub	1.00			4450.00	
Perforations	29.00			4479.00	
Bullnose	3.00			4482.00	71.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039714 **DST#: 2**
Test Start: 2010.08.22 @ 14:31:01

Mud and Cushion Information

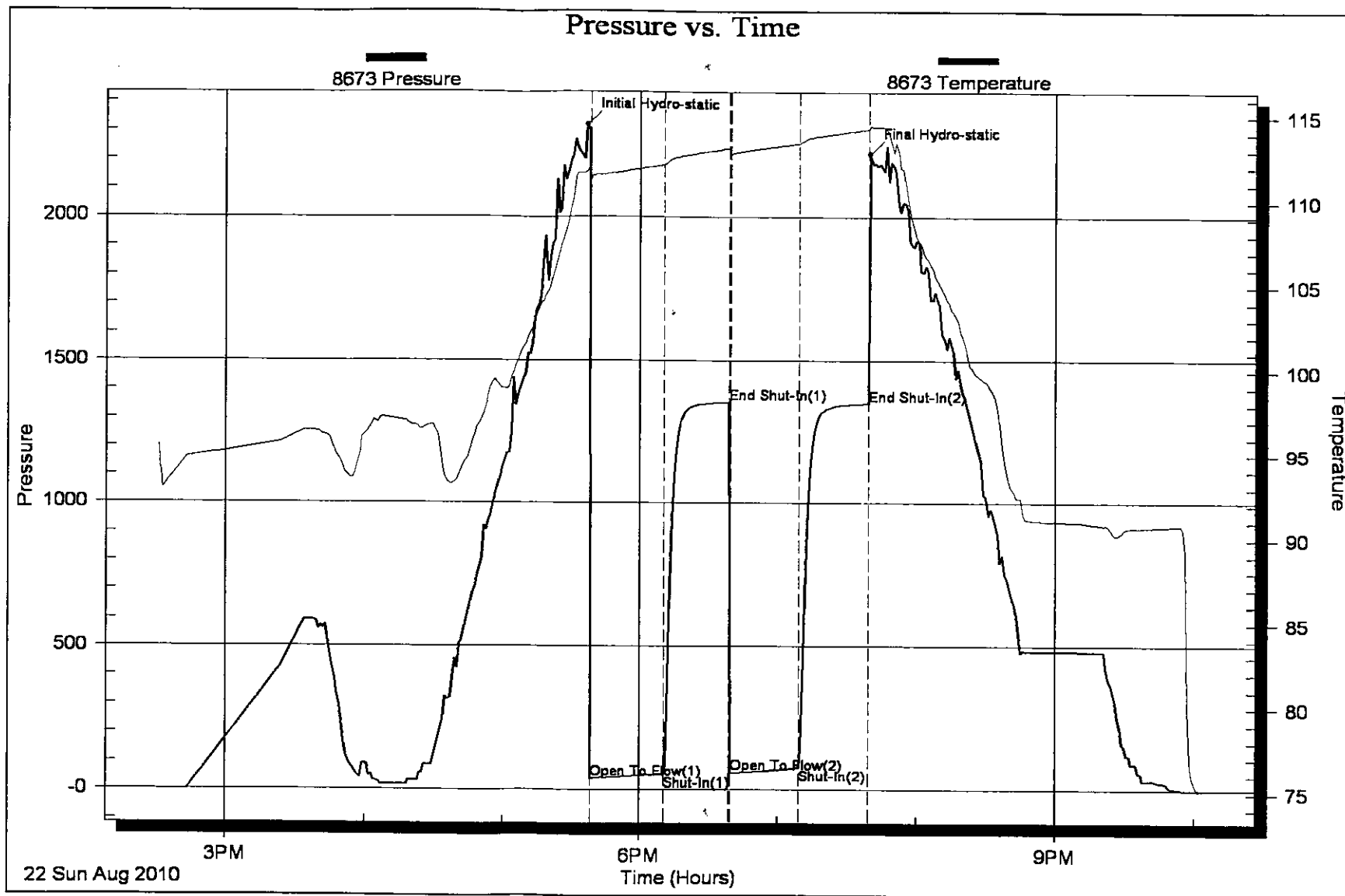
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 28000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3800.00 ppm		
Filter Cake: 1.00 inches		

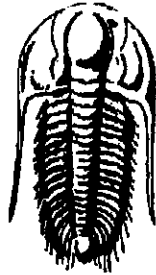
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	mcw 30% m 70% w	0.344

Total Length: 70.00 ft Total Volume: 0.344 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: **Shakespeare**

202 West Main Street
Salem IL 62881

ATTN: Steve Davis

14-16-34 Scott Co.KS

Radnor #1-14

Start Date: 2010.08.23 @ 21:27:00

End Date: 2010.08.24 @ 05:02:30

Job Ticket #: 039715 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Shakespeare

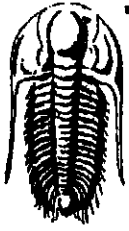
Radnor #1-14

14-16-34 Scott Co.KS

DST # 3

Fort Scott

2010.08.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

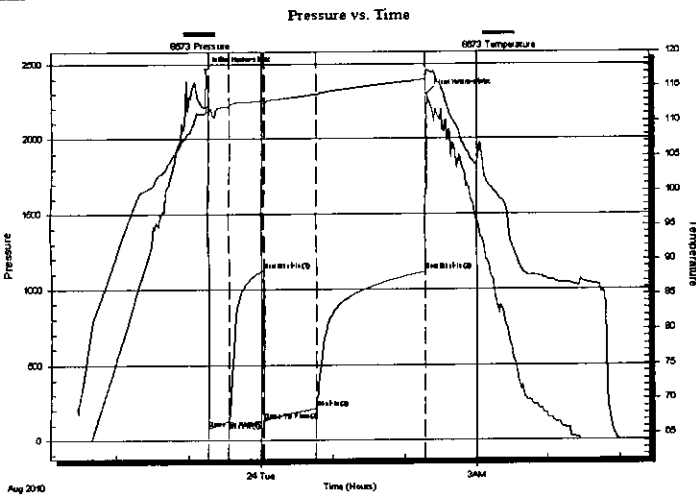
Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039715 **DST#: 3**
Test Start: 2010.08.23 @ 21:27:00

GENERAL INFORMATION:

Formation: **Fort Scott**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 23:16:30
Time Test Ended: 05:02:30
Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 28
Interval: **4550.00 ft (KB) To 4600.00 ft (KB) (TVD)**
Reference Elevations: 3125.00 ft (KB)
Total Depth: 4600.00 ft (KB) (TVD) 3115.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8673 **Inside**
Press@RunDepth: 210.03 psig @ 4557.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.08.23 End Date: 2010.08.24 Last Calib.: 2010.08.24
Start Time: 21:27:01 End Time: 05:02:30 Time On Btm: 2010.08.23 @ 23:13:30
Time Off Btm: 2010.08.24 @ 02:18:15

TEST COMMENT: IF: BOB in 2 min
IS: return blow built to 2"
FF: BOB in 2 min
FS: Return blow built to 3 1/2"



PRESSURE SUMMARY

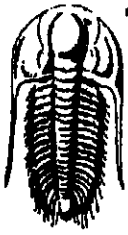
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2462.24	111.34	Initial Hydro-static
3	80.03	111.35	Open To Flow (1)
20	122.90	112.03	Shut-In(1)
49	1126.39	112.97	End Shut-In(1)
50	127.84	112.66	Open To Flow (2)
93	210.03	113.85	Shut-In(2)
184	1116.86	116.03	End Shut-In(2)
185	2299.08	117.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	gcmo 10%g 40%m 50% o	0.45
186.00	ocmg 15% o 25%m 60%g	2.28
252.00	mcgo 10%m 20%g 70% o	3.53
0.00	2976' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

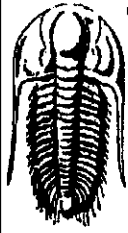
Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039715 **DST#: 3**
Test Start: 2010.08.23 @ 21:27:00

Tool Information

Drill Pipe:	Length: 4407.00 ft	Diameter: 3.80 inches	Volume: 61.82 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: 128.00 ft	Diameter: 2.25 inches	Volume: 0.63 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4550.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.00 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			4524.00	
Shut In Tool	5.00			4529.00	
Hydraulic tool	5.00			4534.00	
Jars	5.00			4539.00	
Safety Joint	2.00			4541.00	
Packer	5.00		Fluid	4546.00	27.00 Bottom Of Top Packer
Packer	4.00			4550.00	
Stubb	1.00			4551.00	
Perforations	5.00			4556.00	
Change Over Sub	1.00			4557.00	
Recorder	0.00	8654	Inside	4557.00	
Recorder	0.00	8673	Inside	4557.00	
Drill Pipe	30.00			4587.00	
Change Over Sub	1.00			4588.00	
Perforations	9.00			4597.00	
Bullnose	3.00			4600.00	50.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039715 **DST#: 3**
Test Start: 2010.08.23 @ 21:27:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

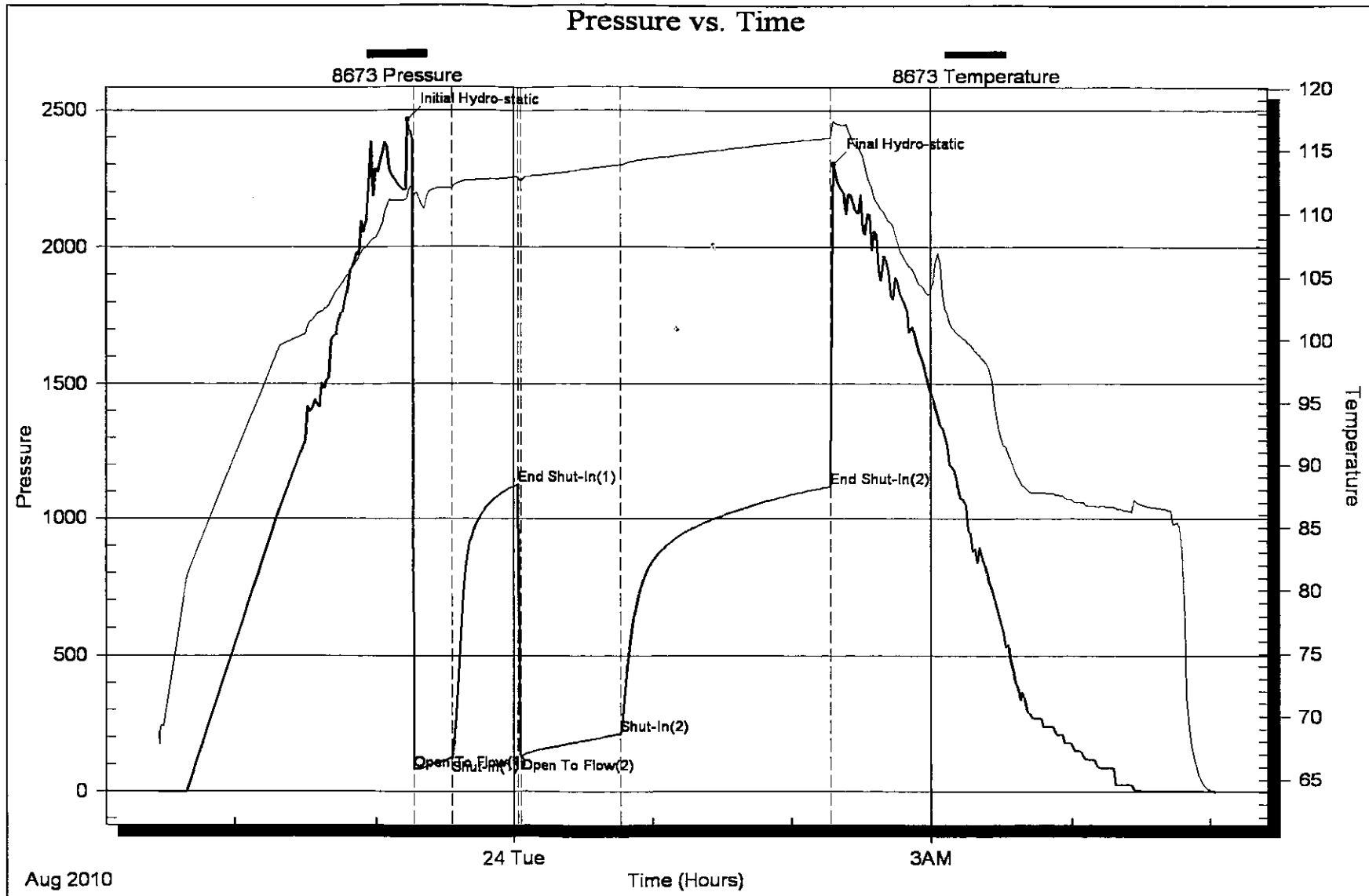
Recovery Information

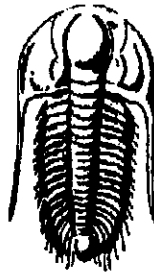
Recovery Table

Length ft	Description	Volume bbl
92.00	gcmo 10%g 40%m 50% o	0.452
186.00	ocmg 15% o 25%m 60%g	2.281
252.00	mcgo 10%m 20%g 70% o	3.535
0.00	2976' GIP	0.000

Total Length: 530.00 ft Total Volume: 6.268 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: **Shakespeare**

202 West Main Street
Salem IL 62881

ATTN: Steve Davis

14-16-34 Scott Co.KS

Radnor #1-14

Start Date: 2010.08.24 @ 20:39:01

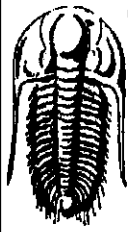
End Date: 2010.08.25 @ 04:50:45

Job Ticket #: 039716 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

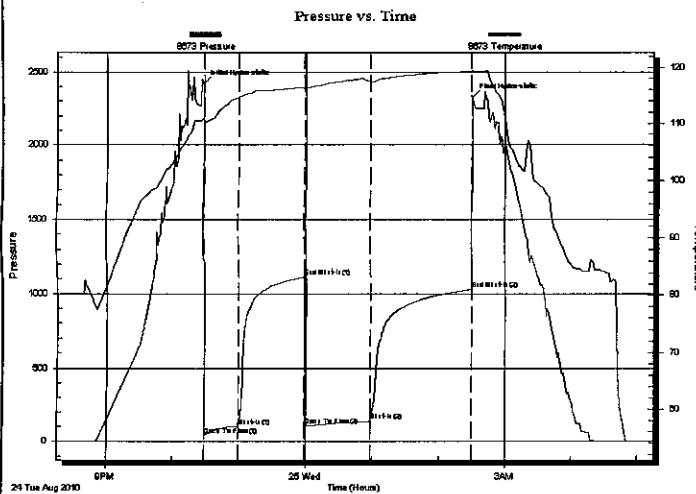
Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039716 DST#: 4
Test Start: 2010.08.24 @ 20:39:01

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:28:00
Time Test Ended: 04:50:45
Interval: **4626.00 ft (KB) To 4697.00 ft (KB) (TVD)**
Total Depth: **4697.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Reference Elevations: **3125.00 ft (KB)**
3115.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 8673 Inside
Press@RunDepth: **135.88 psig @ 4632.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.24** End Date: **2010.08.25** Last Calib.: **2010.08.25**
Start Time: **20:39:01** End Time: **04:50:45** Time On Btm: **2010.08.24 @ 22:27:45**
Time Off Btm: **2010.08.25 @ 02:30:30**

TEST COMMENT: IF: Built to 4" blow
IS: No return blow
FF: Built to 7" blow
FS: No return blow



PRESSURE SUMMARY

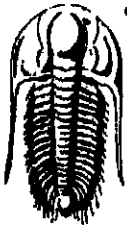
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2421.64	110.79	Initial Hydro-static
1	39.55	109.86	Open To Flow (1)
33	101.39	114.71	Shut-In(1)
91	1114.06	116.43	End Shut-In(1)
92	106.53	116.14	Open To Flow (2)
152	135.88	117.45	Shut-In(2)
242	1030.97	119.25	End Shut-In(2)
243	2329.48	119.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 2% o 98 % m	0.15
190.00	m 100% m	1.77

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039716 **DST#: 4**
Test Start: 2010.08.24 @ 20:39:01

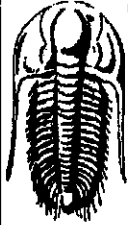
Tool Information

Drill Pipe:	Length: 4498.00 ft	Diameter: 3.80 inches	Volume: 63.10 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: 20000.00 lb
Drill Collar:	Length: 128.00 ft	Diameter: 2.25 inches	Volume: 0.63 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4626.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	98.00 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			4600.00	
Shut In Tool	5.00			4605.00	
Hydraulic tool	5.00			4610.00	
Jars	5.00			4615.00	
Safety Joint	2.00			4617.00	
Packer	5.00		Fluid	4622.00	27.00 Bottom Of Top Packer
Packer	4.00			4626.00	
Stubb	1.00			4627.00	
Perforations	5.00			4632.00	
Recorder	0.00	8673	Inside	4632.00	
Recorder	0.00	8654	Inside	4632.00	
Change Over Sub	1.00			4633.00	
Drill Pipe	30.00			4663.00	
Change Over Sub	1.00			4664.00	
Perforations	30.00			4694.00	
Bullnose	3.00			4697.00	71.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare
202 West Main Street
Salem IL 62881
ATTN: Steve Davis

Radnor #1-14
14-16-34 Scott Co.KS
Job Ticket: 039716 **DST#: 4**
Test Start: 2010.08.24 @ 20:39:01

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: 8.77 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 2% o 98 % m	0.148
190.00	m 100%m	1.772

Total Length: 220.00 ft Total Volume: 1.920 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

