

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1148136

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- ☐ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
- ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
- ☐ OG ☐ GSW ☐ Temp. Abd.
- ☐ CM (Coal Bed Methane)
- ☐ Cathodic ☐ Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer
- ☐ Commingled Permit #: \_\_\_\_\_
- ☐ Dual Completion Permit #: \_\_\_\_\_
- ☐ SWD Permit #: \_\_\_\_\_
- ☐ ENHR Permit #: \_\_\_\_\_
- ☐ GSW Permit #: \_\_\_\_\_

Spud Date or  
Recompletion Date

Date Reached TD

Completion Date or  
Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West

\_\_\_\_\_ Feet from ☐ North / ☐ South Line of Section

\_\_\_\_\_ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

☐ Confidentiality Requested

Date: \_\_\_\_\_

☐ Confidential Release Date: \_\_\_\_\_

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West      County: \_\_\_\_\_

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
List All E. Logs Run:					

<div style="text-align: center;"> <b>CASING RECORD</b> <input type="checkbox"/> New    <input type="checkbox"/> Used         </div> <div style="text-align: center;">Report all strings set-conductor, surface, intermediate, production, etc.</div>							
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

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				

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No (If No, skip questions 2 and 3)

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No (If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

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

<p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented    <input type="checkbox"/> Sold    <input type="checkbox"/> Used on Lease</p> <p><i>(If vented, Submit ACO-18.)</i></p>		<p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole    <input type="checkbox"/> Perf.    <input type="checkbox"/> Dually Comp.    <input type="checkbox"/> Commingled</p> <p><i>(Submit ACO-5)</i></p> <p><input type="checkbox"/> Other <i>(Specify)</i> _____</p>	<p>PRODUCTION INTERVAL:</p> <p>_____</p> <p>_____</p>
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**Federal Tax I.D.# 20-2886107**

**Home Office P.O. Box 32 Russell, KS 67665**

No. 6947

Date	6-4-13	Sec.	8	Twp.	17	Range	19	County	Rush	State	IL	On Location	6:30 PM	Finish	7:45 PM
Lease								Location		6.30 to 15.0 2/5					
Lease								Well No.		1-8					
Contractor								Owner		Winto					
Type Job								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size								T.D.		220					
Csg.								Depth		Quest Energy					
Tbg. Size								Depth		City State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered 150 2000 2000					
Meas Line								Displace		13.000					
EQUIPMENT								Common							
Pumptrk								No.		Cementor Helper					
Bulktrk								No.		Driver Driver					
Bulktrk								No.		Driver Driver					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
Cement did								Handling							
Circulate								Mileage							
FLOAT EQUIPMENT															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
Signature								Winto							



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6765

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-11-13	8	17	19	RUSH	KANSAS		6:00 AM
Location				CENTRAL-16-60-35-W/INTO			
Lease	LEGLEITER			Well No.	#1-8		
Contractor	ROYAL #1			Owner	QUEST ENERGY		
Type Job	POD-STRING			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size	7 7/8"			T.D.	3910'		
Csg.	4 1/2" - .0159			Depth	3,909'		
Tbg. Size				Depth			
Tool	PORT COLLAR			Depth	1345 to 1347'		
Cement Left in Csg.				Shoe Joint	11.5"		
Meas Line				Displace	62 BBLs		
EQUIPMENT				Common			
Pumptrk #5	No.	Cementor		Poz. Mix			
Bulktrk #1	No.	Helper	BETT D	Gel.			
Bulktrk #1	No.	Driver	CLAYTON B.	Calcium			
Bulktrk #1	No.	Driver	CROSS A.	Hulls			
JOB SERVICES & REMARKS				Salt			
Remarks:				Flowseal			
Rat Hole 30 SKS				Kol-Seal			
Mouse Hole 20 SKS				Mud CLR 48 500 gal.			
Centralizers 1", 4", 7", 10", 13", 16", 18" COLLARS				CFL-117 or CD110 CAF 38			
Baskets				Sand			
or Port Collar #62 COLLAR				Handling			
DROPPED BALL - BROKE CIRCULATION				Mileage			
CIRCULATED ON BOTTOM 30 MIN. PUMPED				FLOAT EQUIPMENT			
500 gals of mud CLR 48 - PLUGGED BASKET				Guide Shoe			
30 SKS - PLUGGED MOUSE HOLE 20 SKS - MIXED &				Centralizer 7-4 1/2" TUBES			
PUMPED 100 SKS DOWN 5 1/2" - WASHED				Baskets 1-4 1/2"			
PUMP & DROPPED PLUG - DISPLACED				AFU Inserts			
PLUG - PLUG LAMENED & HELD!				Float Shoe 1-4 1/2" w/BALL			
TUBES CEMENTED @ 42 BBLs				Latch Down 1-4 1/2" w/PLUG			
LIFT PRESSURE @ 900 LBS				1-4 1/2" PORT COLLAR			
PLUG LAMENED @ 62 BBLs @ 1,500 LBS							
				Pumptrk Charge			
				Mileage			
THANK YOU!				Tax			
				Discount			
X Signature Jim Gallagher				Total Charge			



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7257

Date 7-8-13	Sec.	Twp.	Range	County Ellis	State KS	On Location	Finish 1:00 PM
				Location Libenthal 15 Gw 3S wing			
Lease Leglitter		Well No. 1-8		Owner			
Contractor Express				To Quality Oilwell Cementing, Inc.			
Type Job Port collar				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size		T.D. 3890		Charge To Quest Energy			
Csg. 4 1/2		Depth 3910		Street			
Tbg. Size		Depth		City		State	
Tool Port collar		Depth 1343 ft		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered 225 QMDC 5gal			
Meas Line		Displace 5.19 bbl					
EQUIPMENT				Common 225 QMDC			
Pumptrk 17	No.	Cementer		Poz. Mix			
		Helper	Hearh				
Bulktrk 8	No.	Driver		Gel. 2 bags			
		Driver	Doug				
Bulktrk PU	No.	Driver		Calcium			
		Driver	Briff	Matt			
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal 56#			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
or Port Collar 1343 ft				Sand			
				Handling 227			
Tied on circulated out oil				Mileage			
Test tool to 1000 lbs				FLOAT EQUIPMENT			
Mixed 2 bags of Gel				Guide Shoe			
Mixed 225 ex of QMDC				Centralizer			
Displaced 4 bbl				Baskets			
Shut tool				AFU Inserts			
Washed truck clean				Float Shoe			
Tested tool to 1000 lbs				Latch Down			
Washed tubing clean							
Rigged down							
				Pumptrk Charge port collar			
				Mileage 23			
				Tax			
				Discount			
				Total Charge			
X Signature							





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Quest Energy LLC

2732 N Reese Rd  
Brookville KS 67425-9812

ATTN: Tom

8 17s 19w Rush

**Legleiter 1-8**

Job Ticket: 53812

DST#: 1

Test Start: 2013.06.09 @ 04:49:00

### GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: 2083.00 ft (KB)

Time Tool Opened: 06:43:00

Time Test Ended: 11:26:00

Interval: **3805.00 ft (KB) To 3850.00 ft (KB) (TVD)**

Total Depth: 3850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 41

Reference Elevations: 2083.00 ft (KB)

2078.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8322**

**Outside**

Press@RunDepth: 60.45 psig @ 3813.00 ft (KB)

Start Date: 2013.06.09

End Date:

2013.06.09

Start Time: 04:49:00

End Time:

11:26:00

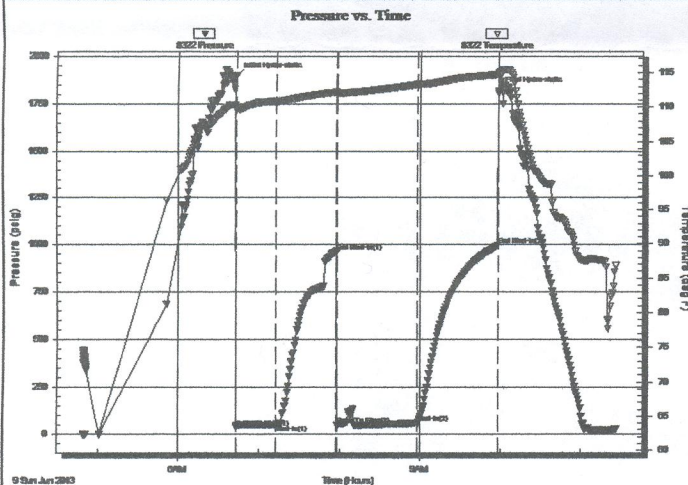
Capacity: 8000.00 psig

Last Calib.: 2013.06.09

Time On Btm: 2013.06.09 @ 06:42:50

Time Off Btm: 2013.06.09 @ 09:58:09

**TEST COMMENT:** 30-IFP- Surface Blow Building to 4 in.  
45-ISIP- No Blow  
60-FFP- Surface Blow Building to 3 in.  
60-FSIP- No Blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.75	110.29	Initial Hydro-static
1	38.15	109.56	Open To Flow (1)
30	52.39	110.81	Shut-In(1)
75	963.52	112.17	End Shut-In(1)
76	49.82	111.95	Open To Flow (2)
135	60.45	113.27	Shut-In(2)
195	997.70	114.71	End Shut-In(2)
196	1819.37	115.04	Final Hydro-static

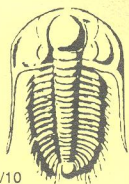
### Recovery

Length (ft)	Description	Volume (bbl)
83.00	Oil Speck Mud 100%	1.16

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53812

4/10

Well Name & No. Legleiter #1-8 Test No. 1 Date 6-9-13  
 Company Quest Energy LLC Elevation 2083 KB 2078 GL  
 Address 2732 N Reese Rd. Brookville KS. 67425-9812  
 Co. Rep / Geo. Torm Rig Royal #1  
 Location: Sec. 8 Twp. 17<sup>s</sup> Rge. 19<sup>w</sup> Co. Rush State KS

Interval Tested Cherokee 3805-3850 Zone Tested Cherokee Sand.  
 Anchor Length ~~3805-3850~~ 45 Drill Pipe Run 3810 Mud Wt. 9.1  
 Top Packer Depth 3800 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3805 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3850 Chlorides 5000 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 4in.  
ISIP - No Blow  
FFP - Surface Blow Building to 3in.  
FSIP - No Blow

Rec <u>83</u>	Feet of <u>Oil Speck Mud.</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 83 BHT 115 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1892 ☒ Test \_\_\_\_\_ T-On Location 00:05  
 (B) First Initial Flow 38 ☒ Jars \_\_\_\_\_ T-Started 04:49  
 (C) First Final Flow 52 ☒ Safety Joint \_\_\_\_\_ T-Open 06:43  
 (D) Initial Shut-In 963 ☐ Circ Sub \_\_\_\_\_ T-Pulled 09:58  
 (E) Second Initial Flow 49 ☐ Hourly Standby DOWN T-Out 11:26  
 (F) Second Final Flow 60 ☒ Mileage 57 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 997 ☐ Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1819 ☐ Straddle \_\_\_\_\_

☐ Ruined Shale Packer \_\_\_\_\_  
☐ Ruined Packer \_\_\_\_\_  
☐ Extra Copies \_\_\_\_\_  
 Initial Open 30 ☐ Extra Packer \_\_\_\_\_  
 Initial Shut-In 45 ☐ Extra Recorder \_\_\_\_\_  
 Final Flow 60 ☐ Day Standby \_\_\_\_\_  
 Final Shut-In 60 ☐ Accessibility \_\_\_\_\_  
 Sub Total \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Quest Energy LLC

2732 N Reese Rd  
Brookville KS 67425-9812

ATTN: Tom

8 17s 19w Rush

**Legleiter 1-8**

Job Ticket: 53813

**DST#: 2**

Test Start: 2013.06.09 @ 17:01:00

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 2083.00 ft (KB)

Time Tool Opened: 18:54:40

Time Test Ended: 23:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: **3804.00 ft (KB) To 3865.00 ft (KB) (TVD)**

Total Depth: 3865.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2083.00 ft (KB)

2078.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8322 Outside**

Press@RunDepth: 81.95 psig @ 3828.00 ft (KB)

Start Date: 2013.06.09

End Date:

2013.06.09

Start Time: 17:01:00

End Time:

23:27:00

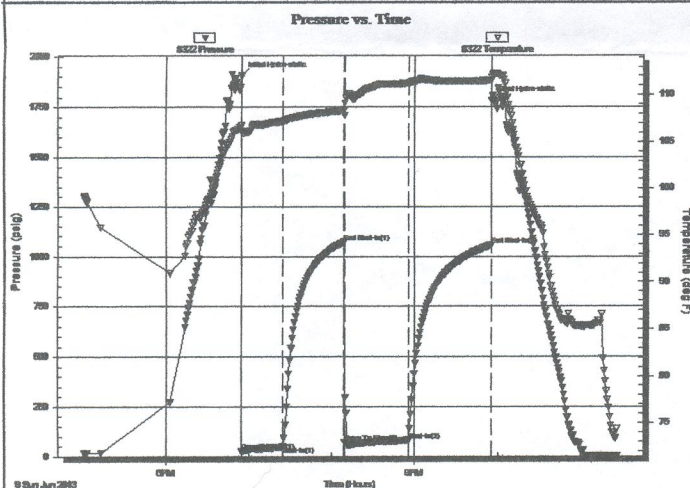
Capacity: 8000.00 psig

Last Calib.: 2013.06.09

Time On Btm: 2013.06.09 @ 18:54:30

Time Off Btm: 2013.06.09 @ 21:55:40

**TEST COMMENT:** 30-IFP- Surface Blow Building to 5 1/2 in.  
45-ISIP- No Blow  
45-FFP- Surface Blow Building to 4 1/2 in.  
60-FSIP- No Blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1904.73	106.77	Initial Hydro-static
1	26.23	106.15	Open To Flow (1)
30	48.90	107.21	Shut-In(1)
75	1071.37	108.33	End Shut-In(1)
75	69.78	107.78	Open To Flow (2)
121	81.95	111.25	Shut-In(2)
181	1055.39	111.51	End Shut-In(2)
182	1781.71	111.79	Final Hydro-static

### Recovery

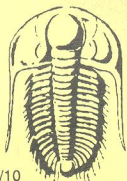
Length (ft)	Description	Volume (bbl)
146.00	Oil Speck Mud 100%	2.05

\* Recovery from multiple tests

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53813

Well Name & No. Legleiter 1-8 Test No. 2 Date 6-9-13  
 Company Quest Energy LLC Elevation 2083 KB 2078 GL  
 Address 2732 N. Reese Rd Brookville KS. 67425-9812  
 Co. Rep / Geo. Tom Rig Royal #1  
 Location: Sec. 8 Twp. 17 S Rge. 19 W Co. Rush State KS

Interval Tested 3804-3865 Zone Tested C.S. + Arbuckle  
 Anchor Length 61 Drill Pipe Run 3809 Mud Wt. 9.4  
 Top Packer Depth 3798 Drill Collars Run 0 Vis 68  
 Bottom Packer Depth 3804 Wt. Pipe Run 0 WL 9.6  
 Total Depth 3865 Chlorides 10000 ppm System LCM 1 1/2

Blow Description IFP - Surface Blow Building to 5 1/2 in.  
ISIP - No Blow.  
FFP - Surface Blow Building to 4 1/2 in  
FSIP - No Blow

Rec <u>146</u>	Feet of <u>0.1 Speck mud.</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 146 BHT 112 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1904 ☒ Test \_\_\_\_\_ T-On Location 16:30  
 (B) First Initial Flow 26 ☒ Jars \_\_\_\_\_ T-Started 17:01  
 (C) First Final Flow 48 ☒ Safety Joint \_\_\_\_\_ T-Open 18:55  
 (D) Initial Shut-In 1071 ☐ Circ Sub \_\_\_\_\_ T-Pulled 21:55  
 (E) Second Initial Flow 69 ☐ Hourly Standby \_\_\_\_\_ T-Out 23:27  
 (F) Second Final Flow 81 ☒ Mileage \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In 1055 ☐ Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1781 ☐ Straddle \_\_\_\_\_ ☐ Ruined Shale Packer \_\_\_\_\_

Initial Open 30 ☐ Shale Packer \_\_\_\_\_ ☐ Ruined Packer \_\_\_\_\_  
 Initial Shut-In 45 ☐ Extra Packer \_\_\_\_\_ ☐ Extra Copies \_\_\_\_\_  
 Final Flow 45 ☐ Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Final Shut-In 60 ☐ Day Standby \_\_\_\_\_ Total \_\_\_\_\_  
☐ Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative \_\_\_\_\_

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Quest Energy LLC

8 17s 19w Rush

2732 N Reese Rd  
Brookville KS 67425-9812

Legleiter 1-8

Job Ticket: 53814

DST#: 3

ATTN: Tom

Test Start: 2013.06.10 @ 13:50:00

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 2083.00 ft (KB)

Time Tool Opened: 15:29:30

Time Test Ended: 20:08:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: **3852.00 ft (KB) To 3872.00 ft (KB) (TVD)**

Total Depth: 3910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2083.00 ft (KB)

2078.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 47.17 psig @ 3853.00 ft (KB)

Start Date: 2013.06.10

End Date:

2013.06.10

Start Time: 13:50:00

End Time:

20:08:00

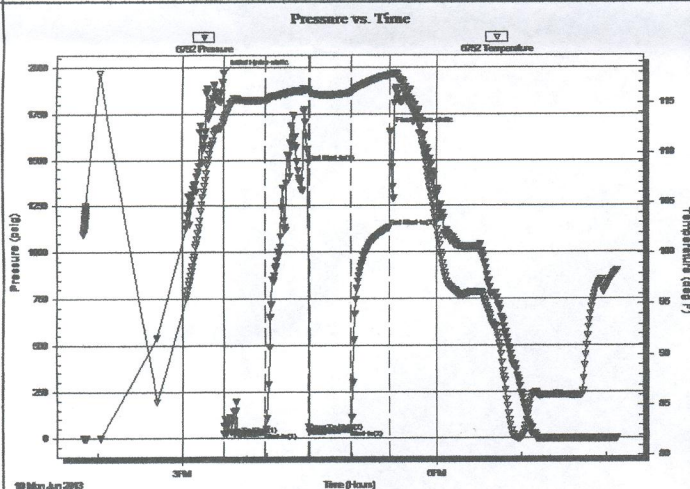
Capacity: 8000.00 psig

Last Calib.: 2013.06.10

Time On Btm: 2013.06.10 @ 15:29:20

Time Off Btm: 2013.06.10 @ 17:27:00

TEST COMMENT: 30-IFP- Surface Blow Building to 3 in.  
30-ISIP- No Blow  
30-FFP- Surface Blow Building to 2 3/4 in.  
30-FSIP- No Blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.77	113.31	Initial Hydro-static
1	22.68	112.96	Open To Flow (1)
30	31.78	115.22	Shut-In(1)
60	1486.67	116.24	End Shut-In(1)
61	34.39	115.94	Open To Flow (2)
91	47.17	115.99	Shut-In(2)
118	1133.85	117.66	End Shut-In(2)
118	1657.60	117.75	Final Hydro-static

### Recovery

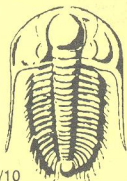
Length (ft)	Description	Volume (bbl)
10.00	OWCM 3%O 47%w 50%w	0.14
63.00	WCM 50%w 50%w Show of Oil	0.88

\* Recovery from multiple tests

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53814

Well Name & No. Legleiter #1-8 Test No. 3 Date 6-10-13  
 Company Quest Energy LLC Elevation 2083 KB 2078 GL  
 Address 2732 N. Reese Rd Brookville KS 67425-9812  
 Co. Rep / Geo. Tom Rig Royal #1  
 Location: Sec. 8 Twp. 17<sup>s</sup> Rge. 19<sup>w</sup> Co. Rush State KS.

Interval Tested 3852-3872 Zone Tested Airbuckle  
 Anchor Length 20 (38 T.P.) Drill Pipe Run 3843 Mud Wt. 9.4  
 Top Packer Depth 3852 Drill Collars Run 0 Vis 68  
 Bottom Packer Depth 3872 Wt. Pipe Run 0 WL 9.6  
 Total Depth 3910 Chlorides 10000 ppm System LCM 1 1/2

Blow Description IFP-Surface Blow Building to 3 in.  
ISIP- No Blow  
FFP-Surface Blow Building to 2 3/4 in.  
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0 WCM</u>	<u>3</u>	<u>47</u>	<u>50</u>	
<u>63</u>	<u>WCM Show of Oil</u>		<u>50</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 73 BHT 117 Gravity \_\_\_\_\_ API RW .190 @ 95° F Chlorides 26000 ppm

(A) Initial Hydrostatic	<u>1968</u>	<input checked="" type="checkbox"/> Test	T-On Location	<u>13:10</u>
(B) First Initial Flow	<u>22</u>	<input checked="" type="checkbox"/> Jars	T-Started	<u>13:50</u>
(C) First Final Flow	<u>31</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open	<u>15:30</u>
(D) Initial Shut-In	<u>1486</u>	<input type="checkbox"/> Circ Sub	T-Pulled	<u>17:30</u>
(E) Second Initial Flow	<u>34</u>	<input type="checkbox"/> Hourly Standby	T-Out	<u>20:08</u>
(F) Second Final Flow	<u>47</u>	<input checked="" type="checkbox"/> Mileage	Comments	
(G) Final Shut-In	<u>1133</u>	<input type="checkbox"/> Sampler		
(H) Final Hydrostatic	<u>1657</u>	<input checked="" type="checkbox"/> Straddle		

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In	<u>30</u>	<input type="checkbox"/> Day Standby	Sub Total
		<input type="checkbox"/> Accessibility	Total
		Sub Total	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]  
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