

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1354109

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. 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>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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

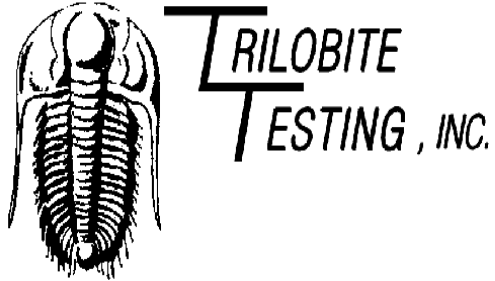
TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run:			
					☐ Yes ☐ No			
Date of First, Resumed Production, SWD or ENHR.			Producing Method:					
			☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____					
Estimated Production Per 24 Hours	Oil	Bbbs.	Gas	Mcf	Water	Bbbs.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>		METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> ☐ Other <i>(Specify)</i> _____		PRODUCTION INTERVAL: _____ _____	
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Form	ACO1 - Well Completion
Operator	Bennett & Schulte Oil Co., A General Partnership
Well Name	KUHLMAN 14-1
Doc ID	1354109

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	948	Common	300	13%CC,7%Gel



DRILL STEM TEST REPORT

Prepared For: **Bennett & Schulte Oil Company**

PO Box 329
Russell KS 67665+0329

ATTN: Bob Hopkins

Kuhlman #14-1

14-18S-15W Barton,KS

Start Date: 2017.04.14 @ 13:27:00

End Date: 2017.04.14 @ 17:05:00

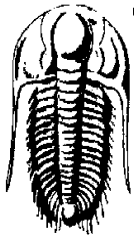
Job Ticket #: 64824 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.17 @ 16:40:31



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Bennett & Schulte Oil Company

14-18S-15W Barton, KS

PO Box 329
Russell KS 67665+0329

Kuhlman #14-1

Job Ticket: 64824

DST#: 1

ATTN: Bob Hopkins

Test Start: 2017.04.14 @ 13:27:00

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:30

Time Test Ended: 17:05:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3246.00 ft (KB) To 3257.00 ft (KB) (TVD)

Total Depth: 3285.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1932.00 ft (KB)

1926.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8648 Inside

Press@RunDepth: 118.37 psig @ 3246.00 ft (KB)

Start Date: 2017.04.14

End Date:

2017.04.14

Start Time: 13:27:05

End Time:

17:05:00

Capacity: 8000.00 psig

Last Calib.: 2017.04.14

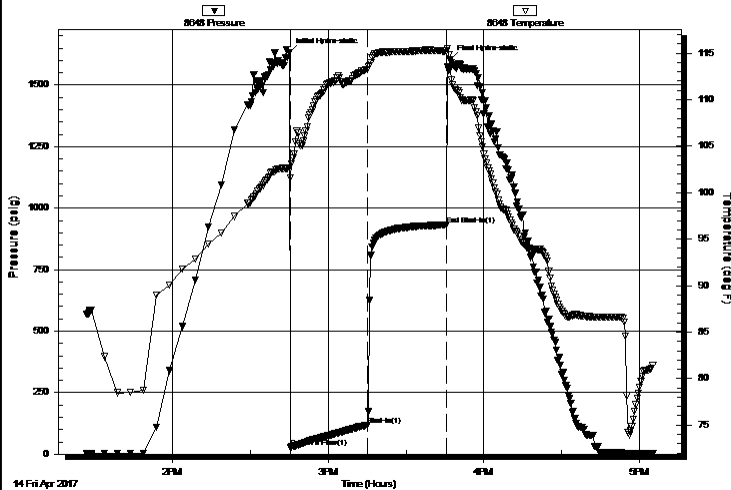
Time On Btm: 2017.04.14 @ 14:45:00

Time Off Btm: 2017.04.14 @ 15:47:00

TEST COMMENT: I.F. 30 Minutes/ Blow built to BOB in 13 1/2 minutes
I.S.I. 30 Minutes/ No blow back

Pull Test

Pressure vs. Time



PRESSURE SUMMARY

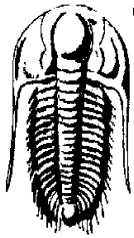
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.60	102.68	Initial Hydro-static
1	26.00	101.61	Open To Flow (1)
30	118.37	113.26	Shut-In(1)
61	932.01	115.22	End Shut-In(1)
62	1603.34	113.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Muddy Water/ Mud 10% Water 90%	2.52

Gas Rates

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

DRILL STEM TEST REPORT

Bennett & Schulte Oil Company

14-18S-15W Barton, KS

PO Box 329
Russell KS 67665+0329

Kuhlman #14-1

Job Ticket: 64824

DST#: 1

ATTN: Bob Hopkins

Test Start: 2017.04.14 @ 13:27:00

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:30

Time Test Ended: 17:05:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3246.00 ft (KB) To 3257.00 ft (KB) (TVD)

Total Depth: 3285.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1932.00 ft (KB)

1926.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8960 Outside

Press@RunDepth: 928.09 psig @ 3246.00 ft (KB)

Start Date: 2017.04.14

End Date:

2017.04.14

Start Time: 13:27:05

End Time:

17:05:00

Capacity: 8000.00 psig

Last Calib.: 2017.04.14

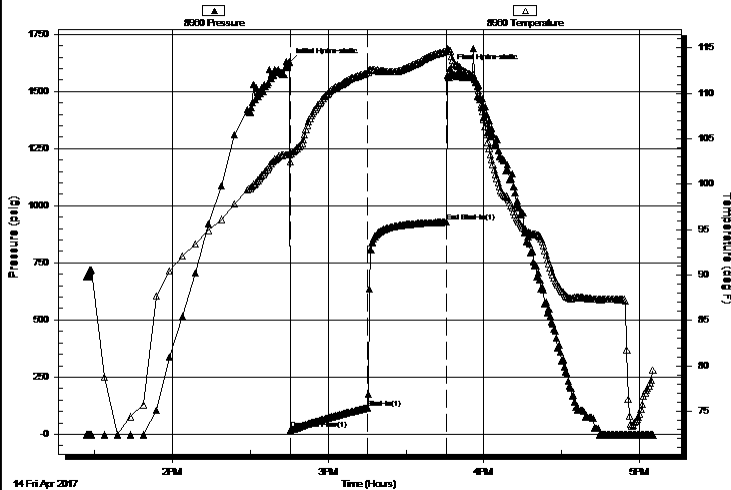
Time On Btm: 2017.04.14 @ 14:45:00

Time Off Btm: 2017.04.14 @ 15:47:00

TEST COMMENT: I.F. 30 Minutes/ Blow built to BOB in 13 1/2 minutes
I.S.I. 30 Minutes/ No blow back

Pull Test

Pressure vs. Time



PRESSURE SUMMARY

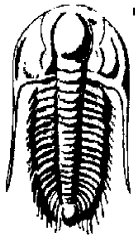
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.08	103.31	Initial Hydro-static
1	20.06	102.50	Open To Flow (1)
30	116.15	112.26	Shut-In(1)
61	928.09	114.61	End Shut-In(1)
62	1601.31	114.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Muddy Water/ Mud 10% Water 90%	2.52

Gas Rates

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

DRILL STEM TEST REPORT

Bennett & Schulte Oil Company

14-18S-15W Barton, KS

PO Box 329
Russell KS 67665+0329

Kuhlman #14-1

Job Ticket: 64824

DST#: 1

ATTN: Bob Hopkins

Test Start: 2017.04.14 @ 13:27:00

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:30

Time Test Ended: 17:05:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3246.00 ft (KB) To 3257.00 ft (KB) (TVD)

Total Depth: 3285.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1932.00 ft (KB)

1926.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8354 Below (Straddle)

Press@RunDepth: psig @ 3280.25 ft (KB)

Start Date: 2017.04.14

End Date:

2017.04.14

Start Time: 13:30:05

End Time:

17:04:26

Capacity: 8000.00 psig

Last Calib.: 2017.04.14

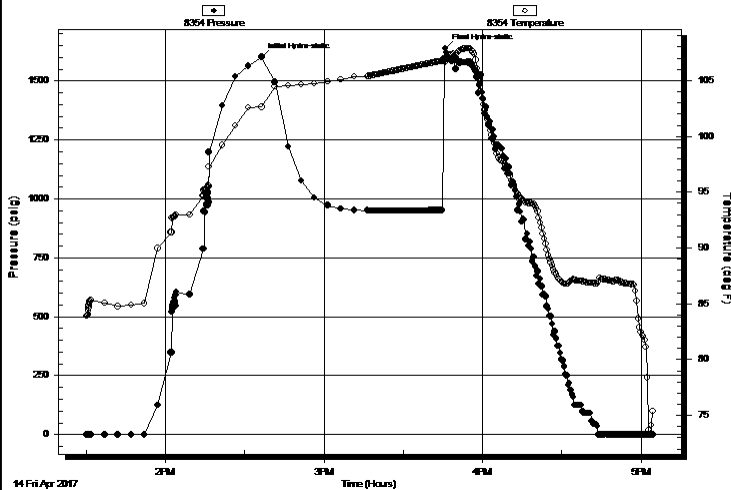
Time On Btm: 2017.04.14 @ 14:36:26

Time Off Btm: 2017.04.14 @ 15:45:56

TEST COMMENT: I.F. 30 Minutes/ Blow built to BOB in 13 1/2 minutes
I.S.I. 30 Minutes/ No blow back

Pull Test

Pressure vs. Time



PRESSURE SUMMARY

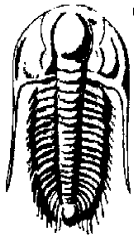
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1601.65	102.62	Initial Hydro-static
70	1638.65	106.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Muddy Water/ Mud 10% Water 90%	2.52

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bennett & Schulte Oil Company

14-18S-15W Barton, KS

PO Box 329
Russell KS 67665+0329

Kuhlman #14-1

Job Ticket: 64824

DST#: 1

ATTN: Bob Hopkins

Test Start: 2017.04.14 @ 13:27:00

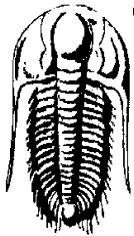
Tool Information

Drill Pipe:	Length:	3234.00 ft	Diameter:	3.80 inches	Volume:	45.36 bbl	Tool Weight:	2000.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	42000.00 lb
					Total Volume:	45.36 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		11.75 ft					String Weight: Initial	39000.00 lb
Depth to Top Packer:		3246.00 ft					Final	39000.00 lb
Depth to Bottom Packer:		3283.25 ft						
Interval between Packers:		37.25 ft						
Tool Length:		61.00 ft						
Number of Packers:		3	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3227.25	
Hydraulic tool	5.00			3232.25	
Jars	5.00			3237.25	
Safety Joint	2.00			3239.25	
Top Packer	5.00			3244.25	
Packer	1.75			3246.00	23.75 Bottom Of Top Packer
Recorder	0.00	8648	Inside	3246.00	
Recorder	0.00	8960	Outside	3246.00	
Anchor	5.00			3251.00	
Blank Off Sub	1.00			3252.00	
Packer - Shale(test side)	3.38			3255.38	
Packer - Shale(tail side)	2.87			3258.25	
Perforations	22.00			3280.25	
Recorder	0.00	8354	Below	3280.25	
Bullnose	3.00			3283.25	37.25 Anchor Tool

Total Tool Length: 61.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Bennett & Schulte Oil Company

14-18S-15W Barton, KS

PO Box 329
Russell KS 67665+0329

Kuhlman #14-1

Job Ticket: 64824

DST#: 1

ATTN: Bob Hopkins

Test Start: 2017.04.14 @ 13:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

15000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Muddy Water/ Mud 10% Water 90%	2.525

Total Length: 180.00 ft Total Volume: 2.525 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .365 ohms @ 83 deg.

Serial #: 8648

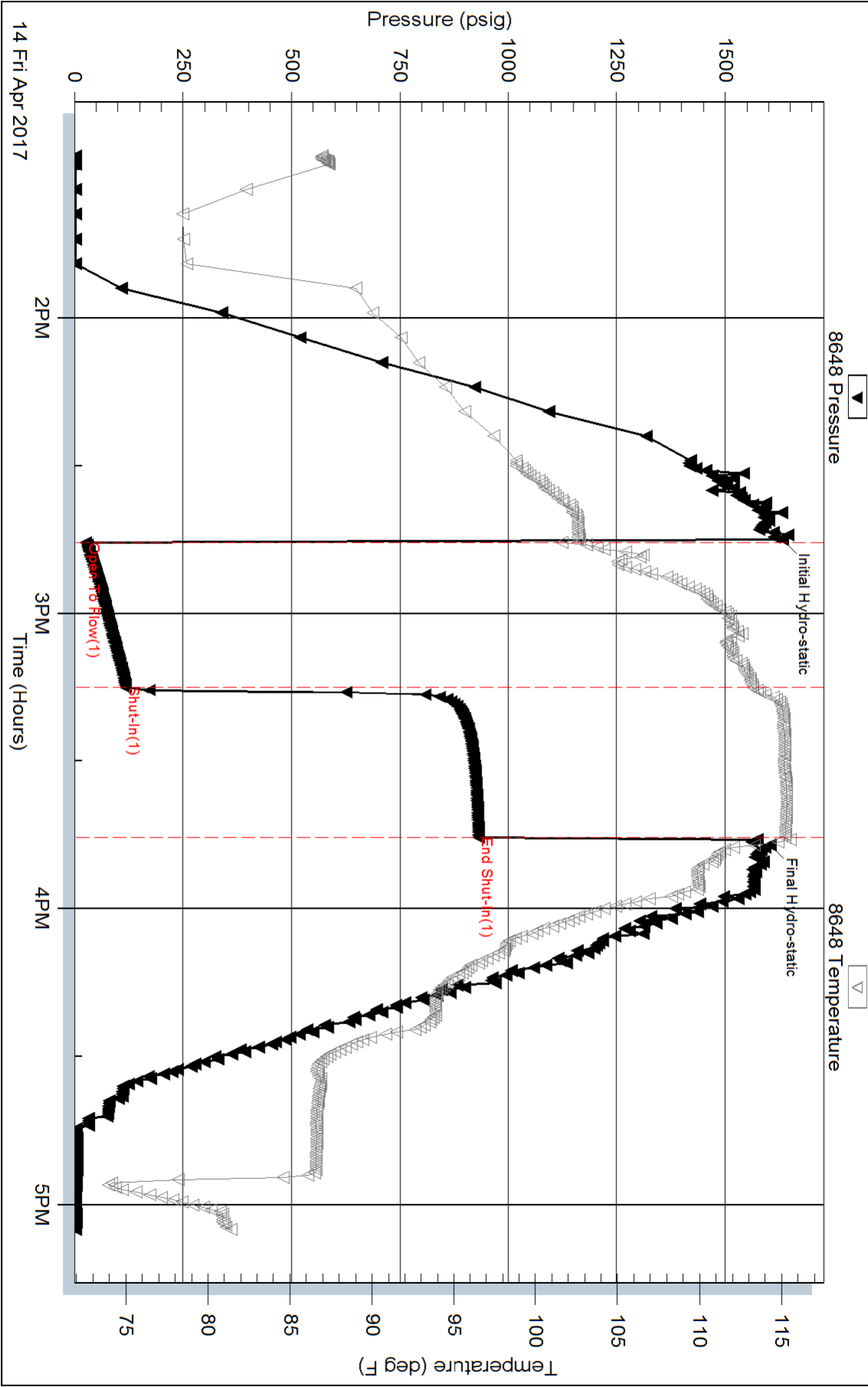
Inside

Bennett & Schulte Oil Company

Kuhlman #14-1

DST Test Number: 1

Pressure vs. Time

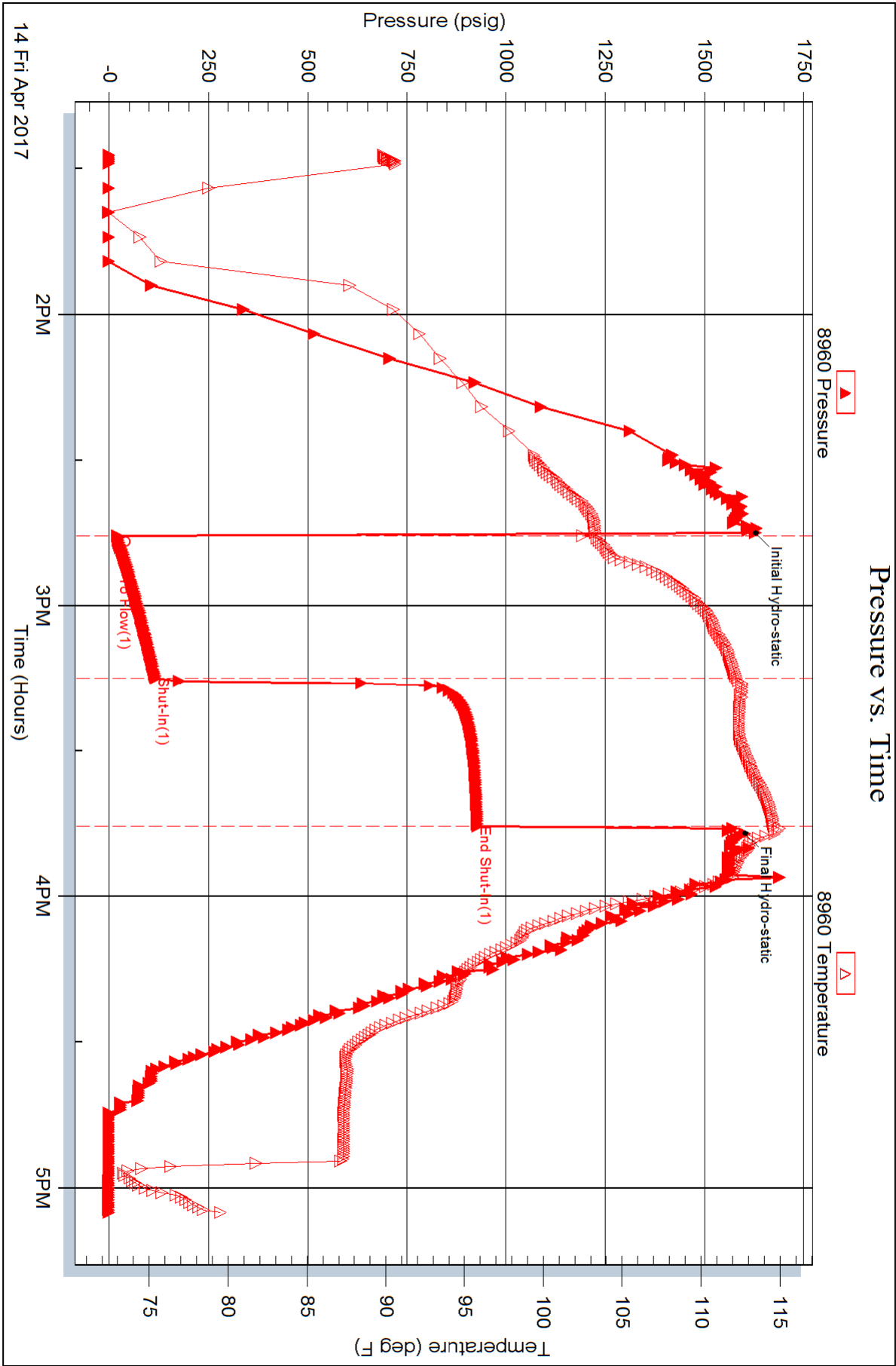


Serial #: 8960

Outside Bennett & Schulte Oil Company

Kuhlman #14-1

DST Test Number: 1

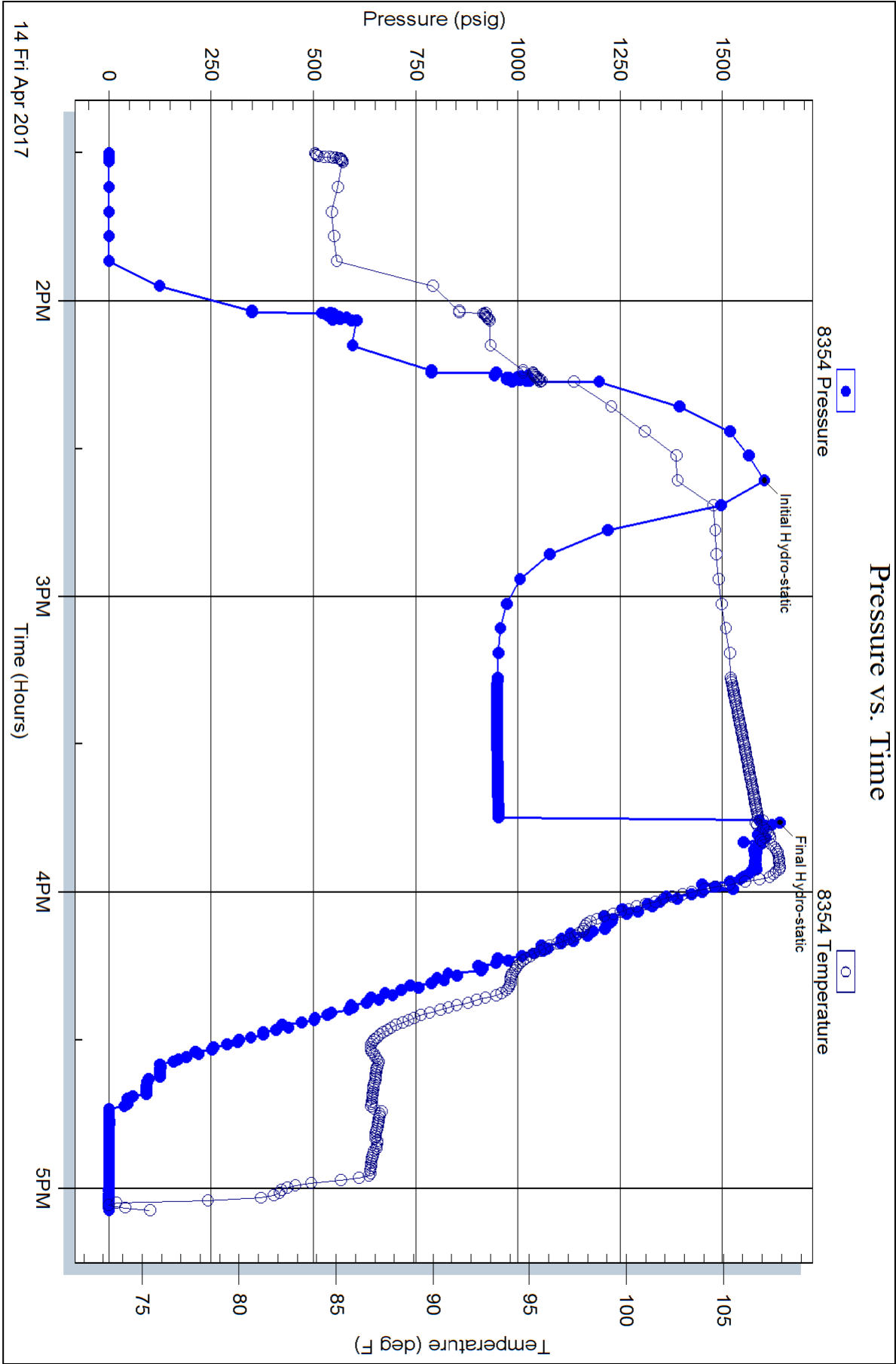


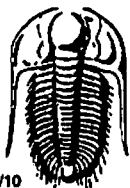
Serial #: 8354

Below (Stratton) & Schulte Oil Company

Kuhman #14-1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64824

Well Name & No. Kuhlman #14-1 Test No. 1 Date 14 APR 17
 Company Bennett + Schulte Oil Company Elevation 1932 KB 1926 GL
 Address PO Box 329 Russell KS 67665-0329
 Co. Rep / Geo. Bob Hopkins Rig Royal Rig 1
 Location: Sec. 14 Twp. 18S Rge. 15W Co. Barton State KS

Interval Tested 3246-3257 Zone Tested Lansing/Kansas City zone C
 Anchor Length 11 Drill Pipe Run 3234 Mud Wt. 9.2
 Top Packer Depth 3241 Drill Collars Run — Vis 50
 Bottom Packer Depth 3246 Wt. Pipe Run — WL 9.2
 Total Depth 3285 Chlorides 4,000 ppm System LCM 1#
 Blow Description IF Blow built to B.O.B in 13 1/2 minutes
I.S.I No blow back
Pull test

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Muddy Water</u>			<u>90</u>	<u>10</u>
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 180 BHT 115 Gravity — API RW 365 @ 83 °F Chlorides 15,000 ppm

(A) Initial Hydrostatic <u>1632</u>	☒ Test <u>1050</u>	T-On Location <u>12:20 pm</u>
(B) First Initial Flow <u>26</u>	☒ Jars <u>250</u>	T-Started <u>1:27 pm</u>
(C) First Final Flow <u>118</u>	☒ Safety Joint <u>75</u>	T-Open <u>2:46 pm</u>
(D) Initial Shut-In <u>932</u>	☐ Circ Sub	T-Pulled <u>3:46 pm</u>
(E) Second Initial Flow <u>—</u>	☐ Hourly Standby	T-Out <u>5:05 pm</u>
(F) Second Final Flow <u>—</u>	☒ Mileage <u>30</u> 45	Comments
(G) Final Shut-In <u>—</u>	☐ Sampler	
(H) Final Hydrostatic <u>1603</u>	☒ Straddle <u>600</u>	
	☒ Shale Packer <u>250</u>	☐ Ruined Shale Packer
Initial Open <u>30</u>	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In <u>30</u>	☐ Extra Recorder	☐ Extra Copies
Final Flow <u>—</u>	☐ Day Standby	Sub Total <u>0</u>
Final Shut-In <u>—</u>	☐ Accessibility	Total <u>2270</u>
	Sub Total <u>2270</u>	MP/DST Disc't

Approved By Robert Hopkins

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.

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. 220

Date <u>4-15-17</u>	Sec. <u>14</u>	Twp. <u>18</u>	Range <u>15</u>	County <u>Barton</u>	State <u>KS</u>	On Location	Finish <u>11:30PM</u>	
				Location <u>Olmitz 2 1/2 S, 1/2 W, N 1/2</u>				
Lease <u>Kuhlman</u>			Well No. <u>14-1</u>		Owner			
Contractor <u>Royal</u>					To Quality Oilwell Cementing, Inc.			
Type Job <u>Plug</u>					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.		Charge To <u>Bennett & Schulte</u>				
Csg.		Depth		Street				
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 <u>235 sx 60/40 4% gel 1/4 Flow</u>				
Meas Line		Displace						
EQUIPMENT				Common <u>141</u>				
Pumptrk <u>16</u>	No.	Cementer <u>Travis</u>		Poz. Mix <u>94</u>				
Bulktrk <u>14</u>	No.	Driver <u>Tim</u>		Gel. <u>8</u>				
Bulktrk	No.	Driver <u>Jorden</u>		Calcium				
JOB SERVICES & REMARKS				Hulls				
Remarks:				Salt				
Rat Hole				Flowseal <u>50#</u>				
Mouse Hole				Kol-Seal				
Centralizers				Mud CLR 48				
Baskets				CFL-117 or CD110 CAF 38				
D/V or Port Collar				Sand				
<u>50sx at 3500</u>				Handling <u>243</u>				
<u>80sx at 1000</u>				Mileage				
<u>50sx at 300</u>				FLOAT EQUIPMENT				
<u>10sx at 40</u>				Guide Shoe				
<u>15 Mouse</u>				Centralizer				
<u>30 Rat</u>				Baskets				
				AFU Inserts				
				Float Shoe				
				Latch Down				
				<u>1 wood plug</u>				
				Pumptrk Charge <u>plug</u>				
				Mileage <u>18</u>				
				Tax				
				Discount				
X Signature <u>Howard Bushy</u>				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. 116

Date	4-11-17	Sec.	14	Twp.	18	Range	15	County	Barton	State	Ks	On Location		Finish	7:30 AM
Lease								Well No.		Location					
Kuhlman								14-1		Olmite-2 1/2 S 2 W					
Contractor								Owner							
Ray D. Dring								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.							
Type Job								Charge To							
Long Surface								Bennett & Schulte							
Hole Size				T.D.		Depth		Street							
12 1/4				950		948									
Csg.				Depth		City		State							
8 1/2															
Tbg. Size				Depth		The above was done to satisfaction and supervision of owner agent or contractor.									
Tool				Depth		Cement Amount Ordered									
20						380 20 5 2									
Cement Left in Csg.				Shoe Joint											
Meas Line				Displace											
				59 BBL											
EQUIPMENT															
Pumptrk		No.	Cementer		T. Davis		Common		300						
Bulktrk		No.	Helper		Doug		Poz. Mix		80						
Bulktrk		No.	Driver		Doug		Gel.		7						
Bulktrk		No.	Driver		Doug		Calcium		13						
Bulktrk		No.	Driver				Hulls								
JOB SERVICES & REMARKS															
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 Lin								Handling 400							
Thanks								Mileage							
FLOAT EQUIPMENT															
Guide Shoe								Play 55							
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge								Long Surface							
Mileage								18							
X Signature								Doug Buring							
								Tax							
								Discount							
								Total Charge							

ROBERT T. HOPKINS, L.G., C.P.G.
709 Harold Ave.
Salina, Kansas 67401
cell (785) 819-2460

April 18, 2017

Bennett & Schulte Oil Co.
Attention: Frank Schulte
P.O. Box 329
Russell, Kansas 67665-2746

Bennett & Schulte Oil Co. – Kuhlman 14-1, 1055' FSL, 2193' FEL, Section 14, T18S, R15W, Barton County, Ks.

Frank:

Attached to this summary letter is my lithologic log for the above-captioned well. The lack of oil recovery from the DST, and poor sample shows overall, indicates a dry hole for this test.

Sample shows and overall quality were as follows (log corrected depths):

LKC A	3240-3242'	very poor
LKC C (DST #1)	3248-3258'	good
LKC G (upper)	3314-3317'	fair
LKC G (lower)	3326-3330'	very poor
LKC J	3386-3388'	poor
Arbuckle	3529-3531'	poor

Following is a log top comparison of the Kuhlman 14-1 log to the Bennett & Schulte – Kuhlman NW 23-1 dry hole in Section 23 (log) and the Jilg #1 dry hole in Section 14 (log), nearby:

LOG TOP COMPARISON:

<u>Formation</u>	<u>Kuhlman 14-1</u> <u>log tops</u>	<u>compared to</u> <u>Kuhlman 23-1 log</u>		<u>compared to</u> <u>Jilg 1 log</u>	
Anhydrite	926 (+996)	-4	(+1000)	-19	(+1015)
Topeka Ls.	2920(-988)	+4	(-992)	-10	(-978)
Heebner Sh.	3157(-1225)	+7	(-1232)	-7	(-1218)
top LKC	3238(-1306)	+8	(-1314)	-7	(-1299)
top H Ls.	3346(-1414)	-0-	(-1414)	-5	(-1409)
BKC	3468(-1536)	+3	(-1539)	-7	(-1529)
Conglomerate	3482(-1550)	+8	(-1558)	-3	(-1547)
Arbuckle	3524(-1592)	+16	(-1608)	+13	(-1605)

If you have any questions, please call me at 785-819-2460. Thank you for this opportunity to serve you!

Sincerely,


Robert T. Hopkins, L.G., C. P. G.

attachments

