



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1171972
OIL & GAS CONSERVATION DIVISION

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
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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: _____

1171972

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

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>	<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:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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 <i>(Amount and Kind of Material Used)</i>	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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	R. Werner 7-3
Doc ID	1171972

All Electric Logs Run

Dual induction log
Microresistivity log
Dual compensated porosity log
Sonic Cement Bond log

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	R. Werner 7-3
Doc ID	1171972

Tops

Name	Top	Datum
Top Anhydrite	1431	+612
Base Anhydrite	1471	+572
Topeka	2971	-928
Heebner	3180	-1137
Toronto	3201	-1158
LKC	3220	-1177
BKC	3444	-1401
Arbuckle	3467	-1424



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

R. Werner #7-3

7-9s-18w Rooks KS

Start Date: 2013.12.04 @ 19:40:00

End Date: 2013.12.05 @ 03:49:45

Job Ticket #: 55362 DST #: 1

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

Printed: 2013.12.06 @ 11:34:16



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating Inc

7-9s-18w Rooks KS

PO Box 86
Plainville KS 67663

R. Werner #7-3

ATTN: Marc Downing

Job Ticket: 55362

DST#: 1

Test Start: 2013.12.04 @ 19:40:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:40:45

Time Test Ended: 03:49:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 53

Interval: 3363.00 ft (KB) To 3405.00 ft (KB) (TVD)

Reference Elevations: 2038.00 ft (KB)

Total Depth: 3405.00 ft (KB) (TVD)

2033.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 44.85 psig @ 3400.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.04 End Date: 2013.12.05

Last Calib.: 2013.12.05

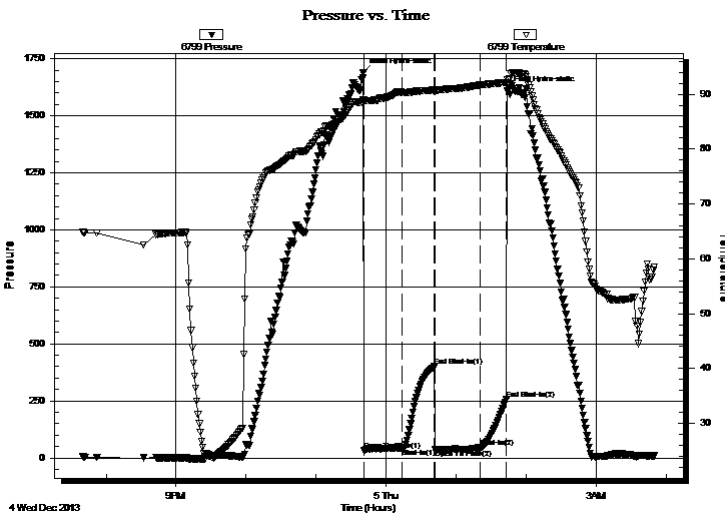
Start Time: 19:40:05 End Time: 03:49:44

Time On Btm: 2013.12.04 @ 23:40:15

Time Off Btm: 2013.12.05 @ 01:43:45

TEST COMMENT: 30 - IF- 3/4" blow
30 - IS- No return
30 - FF- No blow
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.06	89.02	Initial Hydro-static
1	33.90	88.83	Open To Flow (1)
33	43.41	90.33	Shut-In(1)
61	400.36	90.74	End Shut-In(1)
62	35.36	90.70	Open To Flow (2)
100	44.85	91.65	Shut-In(2)
123	257.81	92.16	End Shut-In(2)
124	1609.40	92.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud - spots of oil, 100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc

7-9s-18w Rooks KS

PO Box 86
Plainville KS 67663

R. Werner #7-3

ATTN: Marc Downing

Job Ticket: 55362

DST#: 1

Test Start: 2013.12.04 @ 19:40:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:40:45

Time Test Ended: 03:49:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 53

Interval: 3363.00 ft (KB) To 3405.00 ft (KB) (TVD)

Reference Elevations: 2038.00 ft (KB)

Total Depth: 3405.00 ft (KB) (TVD)

2033.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648 Outside

Press@RunDepth: psig @ 3400.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.04

End Date: 2013.12.05

Last Calib.: 2013.12.05

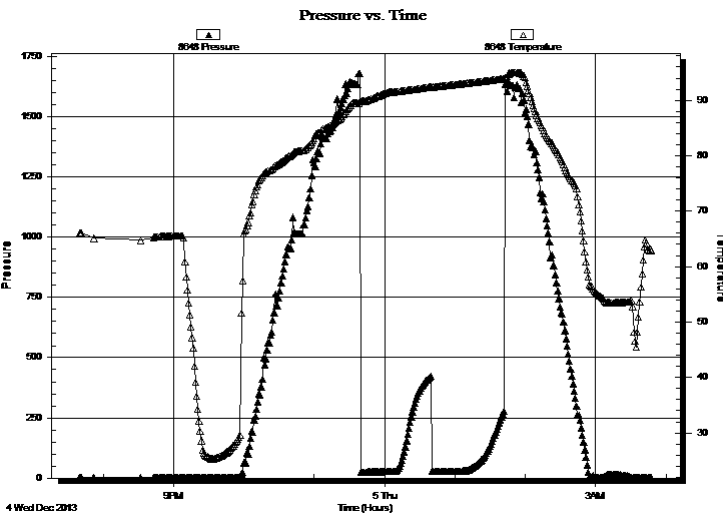
Start Time: 19:40:05

End Time: 03:47:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 3/4" blow
30 - IS- No return
30 - FF- No blow
30 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud - spots of oil, 100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc

7-9s-18w Rooks KS

PO Box 86
Plainville KS 67663

R. Werner #7-3

Job Ticket: 55362

DST#: 1

ATTN: Marc Downing

Test Start: 2013.12.04 @ 19:40:00

Tool Information

Drill Pipe:	Length: 3336.00 ft	Diameter: 3.80 inches	Volume: 46.80 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: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 46.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3363.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	63.00 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			3343.00	
Shut In Tool	5.00			3348.00	
Hydraulic tool	5.00			3353.00	
Packer	5.00			3358.00	21.00 Bottom Of Top Packer
Packer	5.00			3363.00	
Stubb	1.00			3364.00	
Perforations	3.00			3367.00	
Change Over Sub	1.00			3368.00	
Drill Pipe	31.00			3399.00	
Change Over Sub	1.00			3400.00	
Recorder	0.00	6799	Inside	3400.00	
Recorder	0.00	8648	Outside	3400.00	
Perforations	2.00			3402.00	
Bullnose	3.00			3405.00	42.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc

7-9s-18w Rooks KS

PO Box 86
Plainville KS 67663

R. Werner #7-3

Job Ticket: 55362

DST#: 1

ATTN: Marc Downing

Test Start: 2013.12.04 @ 19:40:00

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:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud - spots of oil, 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:

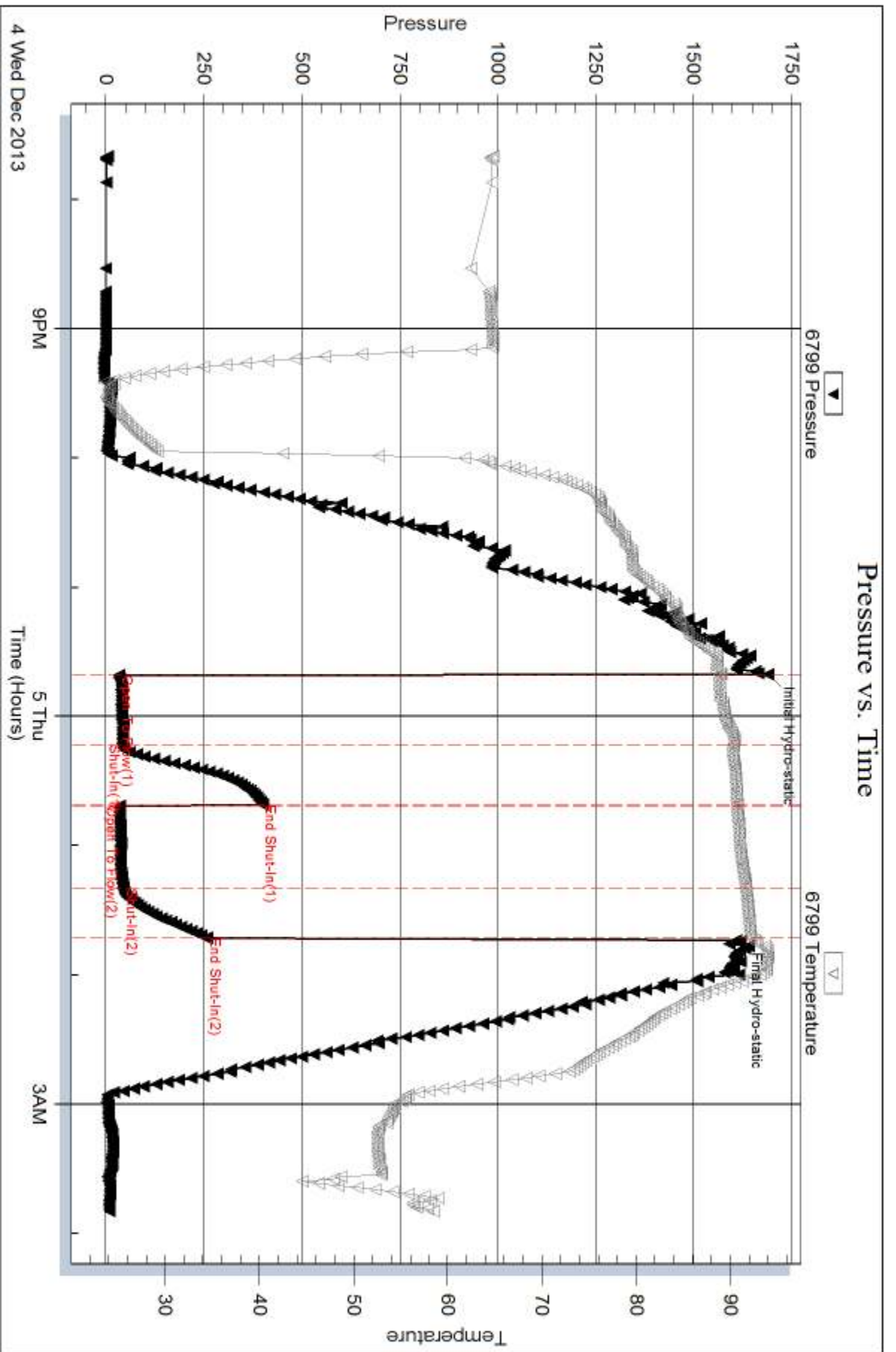
Serial #: 6799

Inside

H&C Oil Operating Inc

R. Werner #7-3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55362

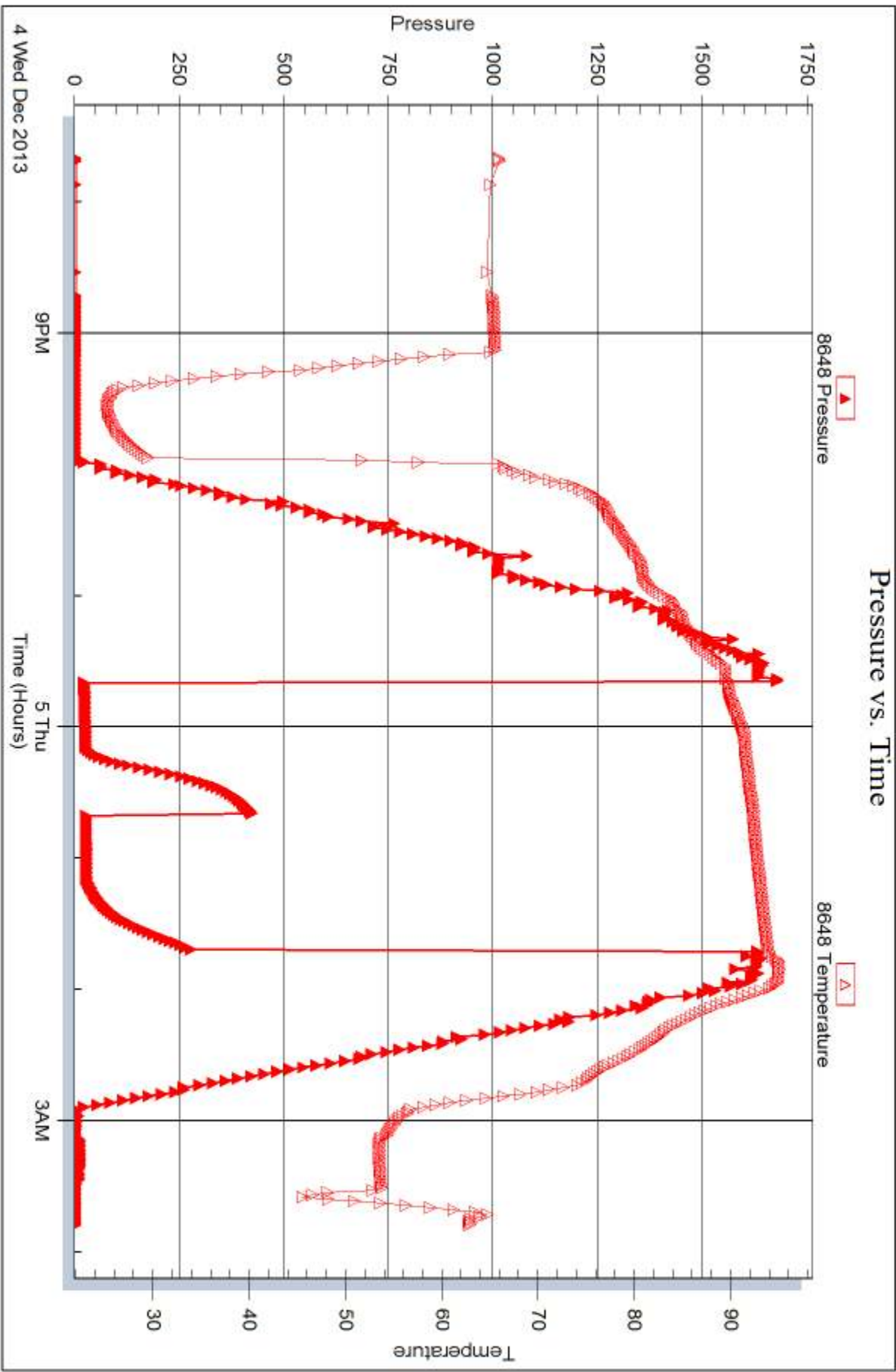
Printed: 2013.12.06 @ 11:34:18

Serial #: 8648

Outside H&C Oil Operating Inc

R. Werner #7-3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55362

Printed: 2013.12.06 @ 11:34:18



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

R. Werner #7-3

7-9s-18w Rooks KS

Start Date: 2013.12.06 @ 00:17:05

End Date: 2013.12.06 @ 07:42:59

Job Ticket #: 55363 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.06 @ 11:31:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc

7-9s-18w Rooks KS

PO Box 86
Plainville KS 67663

R. Werner #7-3

ATTN: Marc Downing

Job Ticket: 55363

DST#: 2

Test Start: 2013.12.06 @ 00:17:05

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:29:45
 Tester: Cody Bloedorn
 Time Test Ended: 07:42:59
 Unit No: 53
 Interval: **3440.00 ft (KB) To 3474.00 ft (KB) (TVD)**
 Reference Elevations: 2038.00 ft (KB)
 Total Depth: 3474.00 ft (KB) (TVD)
 2033.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

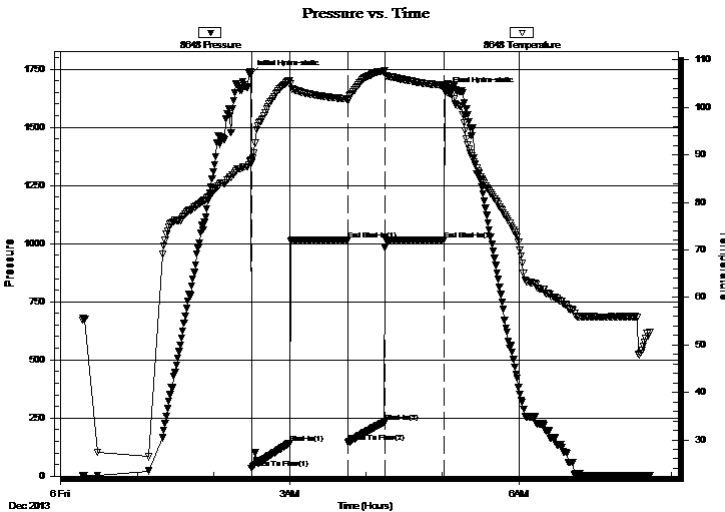
Serial #: 8648

Outside

Press@RunDepth: 233.14 psig @ 3444.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.06 End Date: 2013.12.06 Last Calib.: 2013.12.06
 Start Time: 00:17:05 End Time: 07:42:59 Time On Btm: 2013.12.06 @ 02:29:15
 Time Off Btm: 2013.12.06 @ 05:02:29

TEST COMMENT: 30 - IF- B.O.B. in 8 minutes
 45 - IS- service return
 30 - FF- B.O.B. in 10 minutes
 45 - -FSI- 1/4" return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.36	88.95	Initial Hydro-static
1	32.12	88.44	Open To Flow (1)
31	142.66	105.64	Shut-In(1)
76	1015.34	101.76	End Shut-In(1)
77	144.76	101.33	Open To Flow (2)
105	233.14	107.63	Shut-In(2)
152	1015.46	104.63	End Shut-In(2)
154	1652.35	103.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GMW, 10%G, 40%M, 50%W	2.34
124.00	GOCWM, 5%G, 5%W, 20%O, 70%M	1.74
186.00	GO, 10%G, 90%O	2.61
0.00	124' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc

7-9s-18w Rooks KS

PO Box 86
Plainville KS 67663

R. Werner #7-3

Job Ticket: 55363

DST#: 2

ATTN: Marc Downing

Test Start: 2013.12.06 @ 00:17:05

Tool Information

Drill Pipe:	Length: 3399.00 ft	Diameter: 3.80 inches	Volume: 47.68 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:	30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 47.83 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3440.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	55.00 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			3420.00	
Shut In Tool	5.00			3425.00	
Hydraulic tool	5.00			3430.00	
Packer	5.00			3435.00	21.00 Bottom Of Top Packer
Packer	5.00			3440.00	
Stubb	1.00			3441.00	
Perforations	3.00			3444.00	
Recorder	0.00	6799	Inside	3444.00	
Recorder	0.00	8648	Outside	3444.00	
Perforations	27.00			3471.00	
Bullnose	3.00			3474.00	34.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc

7-9s-18w Rooks KS

PO Box 86
Plainville KS 67663

R. Werner #7-3

Job Ticket: 55363

DST#: 2

ATTN: Marc Downing

Test Start: 2013.12.06 @ 00:17:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 6.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	GMW, 10%G, 40%M, 50%W	2.336
124.00	GOCWM, 5%G, 5%W, 20%O, 70%M	1.739
186.00	GO, 10%G, 90%O	2.609
0.00	124' of G.I.P.	0.000

Total Length: 496.00 ft Total Volume: 6.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

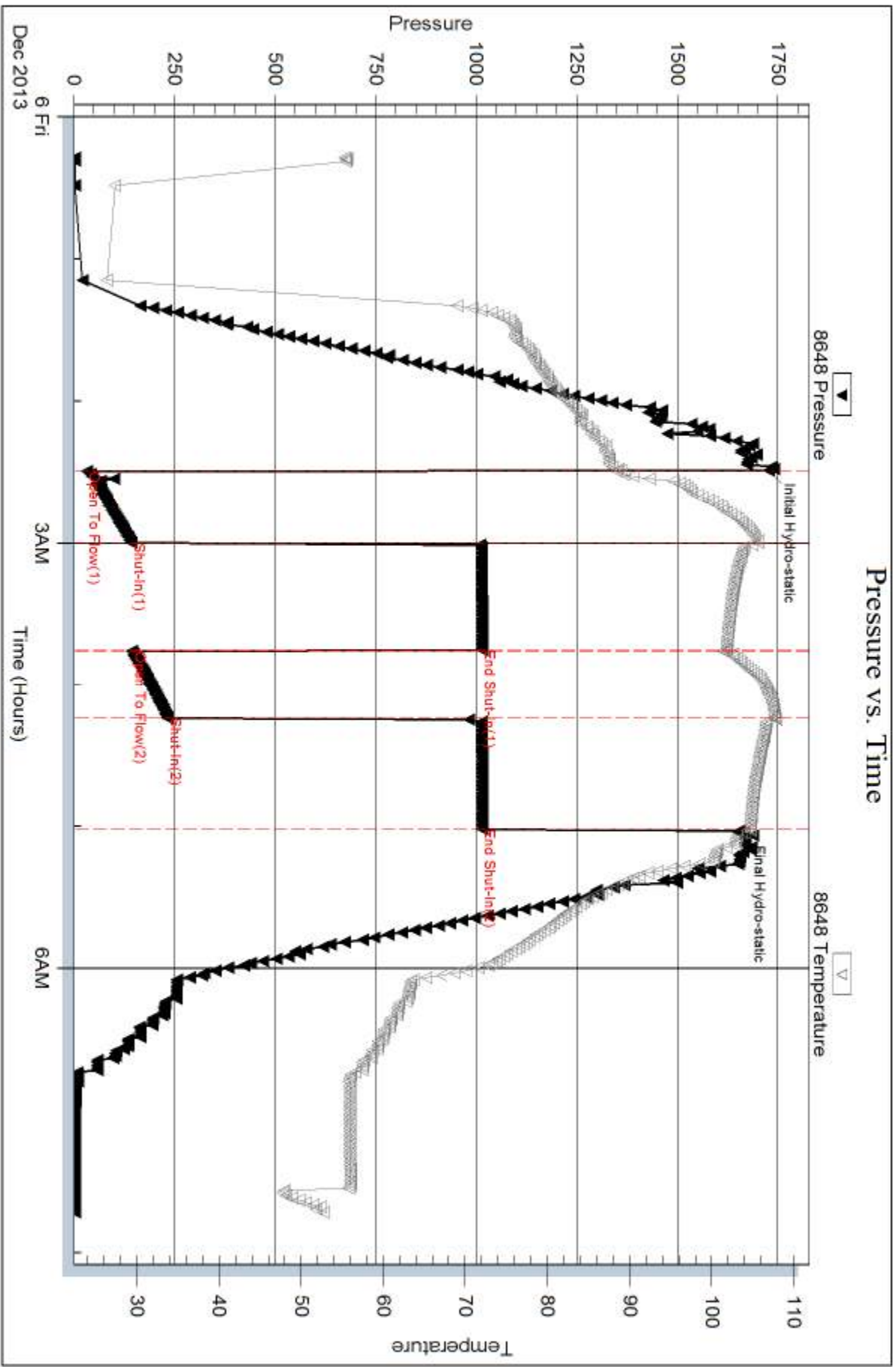
Recovery Comments: Oil w as very thick!

Serial #: 8648

Outside H&C Oil Operating Inc

R. Werner #7-3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55363

Printed: 2013.12.06 @ 11:31:02

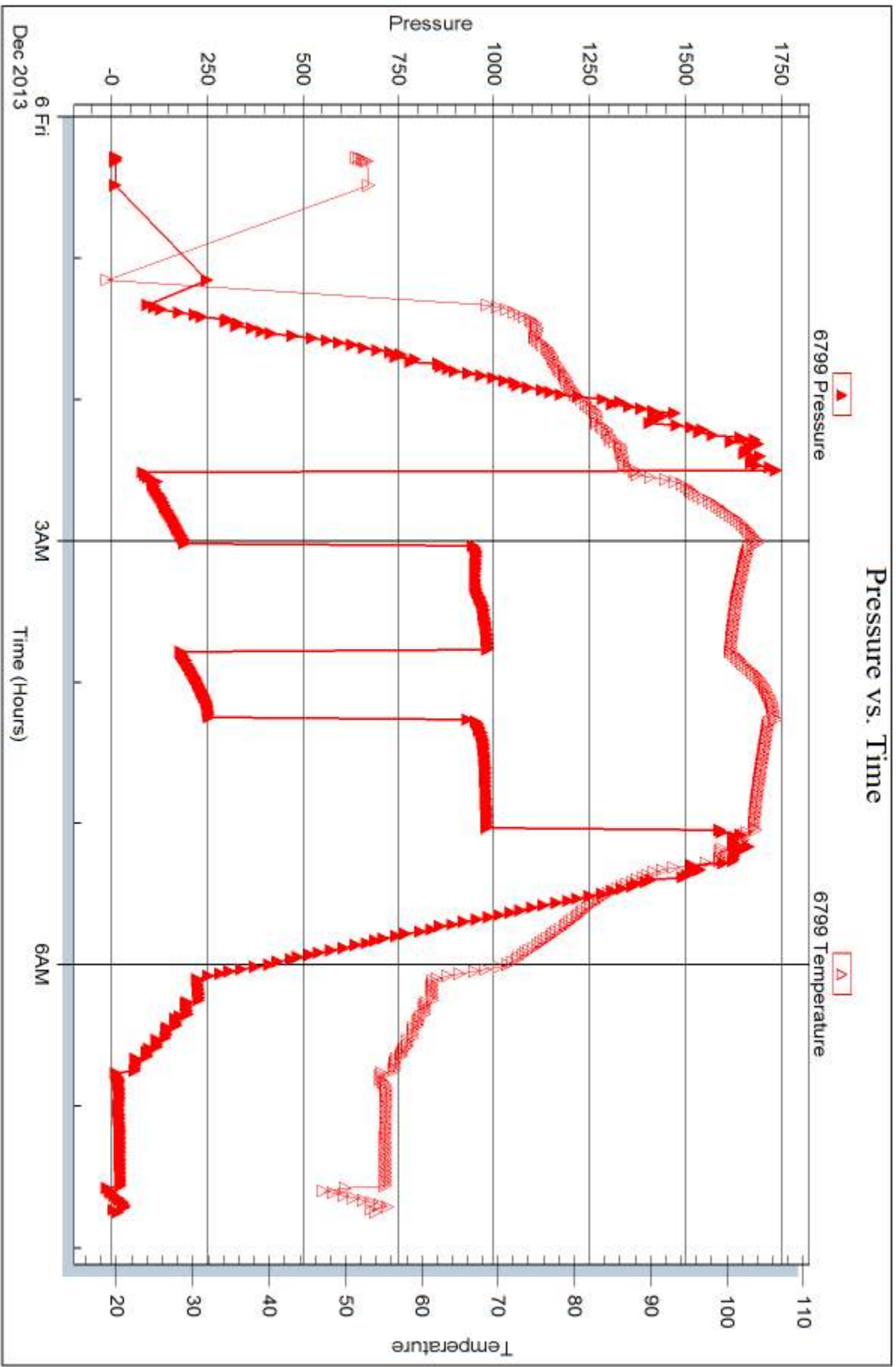
Serial #: 6799

Inside

H&C Oil Operating Inc

R. Werner #7-3

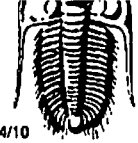
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55363

Printed: 2013.12.06 @ 11:31:02



TRIBOTITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55362

Well Name & No. L. Werner # 7-3 Test No. 1 Date 12-4-13
 Company H&C Oil Operating Inc Elevation 2038 KB 2033 GL
 Address Placerville KS, 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 7 Twp. 9S Rge. 18W Co. Rooks State KS

Interval Tested 3363 - 3405 Zone Tested LKC "I & J"
 Anchor Length 42' Drill Pipe Run 3336' Mud Wt. 9.0
 Top Packer Depth 3358 Drill Collars Run 30' Vis 00+
 Bottom Packer Depth 3363 Wt. Pipe Run — WL 6.0
 Total Depth 3405 Chlorides 3,900 ppm System LCM —

Blow Description IF- 3/4" blow
ISI- No return
FF- No blow
FSI- No return

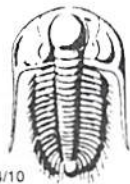
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud - Spots of oil</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 92° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1690 Test 1150 T-On Location 1902
 (B) First Initial Flow 33 Jars — T-Started 1940 7:40pm
 (C) First Final Flow 43 Safety Joint — T-Open 2341
 (D) Initial Shut-In 400 Circ Sub — T-Pulled 0141
 (E) Second Initial Flow 35 Hourly Standby — T-Out 0350
 (F) Second Final Flow 44 Mileage 72 RT 111.60 Comments —
 (G) Final Shut-In 257 Sampler —
 (H) Final Hydrostatic 1609 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1261.60
 Accessibility — MP/DST Disc't —
 Sub Total 1261.60

Approved By — Our Representative Cody Blot

Tribotite 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55363**

Well Name & No. R. Wermer # 7-3 Test No. 2 Date 12-5-13
 Company H&C Oil Operating Inc Elevation 2038 KB 2033 GL
 Address Plainville KS, 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 7 Twp. 9S Rge. 18W Co. Rooks State KS

Interval Tested 3440 - 3474 Zone Tested Arbuckle
 Anchor Length 34' Drill Pipe Run 3399' Mud Wt. 9.0
 Top Packer Depth 3435 Drill Collars Run 30' Vis 54
 Bottom Packer Depth 3440 Wt. Pipe Run - WL 6.4
 Total Depth 3474 Chlorides 4,100 ppm System LCM 0#

Blow Description IF - B.O.B. in 8 minutes
ISI - Surface return
FF - B.O.B. in 10 minutes
FSI - 1/4" return

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>6 MW</u>	<u>10</u>	<u>50</u>	<u>40</u>	<u>0</u>
<u>124</u>	<u>60 CWM</u>	<u>5</u>	<u>20</u>	<u>50</u>	<u>70</u>
<u>196</u>	<u>60</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>124' G.I.P.</u>	%gas	%oil	%water	%mud

Rec Total 496' BHT 103° Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1736 Test 1150 T-On Location 2353
 (B) First Initial Flow 80 Jars T-Started 0017 12:17am
 (C) First Final Flow 190 Safety Joint T-Open 0231
 (D) Initial Shut-In 984 Circ Sub T-Pulled 0501
 (E) Second Initial Flow 183 Hourly Standby T-Out 0745
 (F) Second Final Flow 254 Mileage 72RT 111.60 Comments Thick oil!
 (G) Final Shut-In 982 Sampler
 (H) Final Hydrostatic 1659 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1261.60
 Accessibility MP/DST Disc't
 Sub Total 1261.60

Approved By _____ Our Representative Cody B. [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 CEMENTING, INC.


Federal Tax I.D.# 20-2886107

7023

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

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

No.

Date	11-30-13	Sec.	7	Twp.	9	Range	18	County	Rooks	State	KS	On Location		Finish	5:15 PM	
Location													Plumville 4w 4N			
Lease	Werner															
Contractor	American Eagle 3															
Type Job	Surface															
Hole Size	12 1/4															
Csg.	8 5/8															
Tbg. Size																
Tool																
Cement Left in Csg.	25'															
Meas Line	Displace 12 1/2 bbl															
EQUIPMENT																
Pumptrk	16	No.	Cementer													
			Helper													
Bulktrk	1	No.	Driver Clayton													
			Driver													
			Driver													
JOB SERVICES & REMARKS																
Remarks:																
Rat Hole																
Mouse Hole																
Centralizers																
Baskets																
D/V or Port Collar																
	Common 160															
	Poz. Mix															
	Gel. 3															
	Calcium 5															
	Hulls															
	Salt															
	Flowseal															
	Kol-Seal															
	Mud CLR 48															
	CFL-117 or CD110 CAF 38															
	Sand															
	Handling 68															
	Mileage															
	FLOAT EQUIPMENT															
	Guide Shoe															
	Centralizer															
	Baskets															
	AFU Inserts															
	Float Shoe															
	Latch Down															
	Cement															
	Circulated															
	Cementing															
	Pumptrk Charge Surface															
	Mileage 33															
	Tax															
	Discount															
	Total Charge															
X Signature																

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. 7661

Date	12-7-13	Sec.	7	Twp.	9	Range	18	County	Rooks	State	KS	On Location		Finish	8:30 AM
Lease	Werner														
Contractor	American Essle 3														
Type Job	long string														
Hole Size	7 7/8														
Csg.	5 1/2 14 #														
Tbg. Size															
Tool															
Cement Left in Csg.	Shoe Joint 22.65														
Meas Line	Displace 84.16661														
EQUIPMENT															
Pumptrk	No.	Cementier													
	5	Helper	Lennie W. Travis												
Bulktrk	No.	Driver	David												
Bulktrk	No.	Driver	Lennie M.												
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole	30x														
Mouse Hole															
Centralizers	12, 3, 4, 5, 6, 7, 8, 9, 32, 50, 67														
Baskets	2, 3, 3, 51, 68														
DV or Port Collar															
Pipe on bottom broke circulation. Shut down															
dropped ball and open tool and circulated															
4 hr. Pumped 500gall Mud CLR 48 with 10 bbl															
ft behind it. Plugged Rat hole with 30x. Heated															
to 5 1/2 Mixed 370x QMDC 1/4 # Flow and															
150x Q-Proc. Shut down washed pump and															
lines. Rearest plug and displaced with 84.16															
661 ft plug landed and held.															
Cement did circulate															
Lift Pressure 1200 psi.															
Plug landed at 1800 psi.															
Signature <i>Mark Ramsey</i>															
Pumptrk Charge <i>Good Long String</i>															
Mileage <i>47 133</i>															
Tax															
Discount															
Total Charge															

COMPANY H+C Oil Operating, Inc.
 WELL R. Labeiner # 7-3

FIELD Barry SE
 LOCATION 1981 FwL + 1981 FwL

SEC. 7 TWP. 9S RGE. 18W
 COUNTY Rooks
 STATE Kansas

PRODUCTION ABUCKLE
 ELEVATION KB 2043
 DF 2038
 GL 2038

OPERATOR H+C Oil Operating, Inc.
 CONTRACTOR American Eagle, Log #3
 COMM. 11-30-13
 CASING RECORD
 SURF: 9 5/8" @ 219' PROD: 5 1/2" @ 3419'
 TOTAL DEPTH DRILLERS: 3474'
 TOTAL DEPTH LOG: 3474'

FORMATION TOPS AND STRUCTURAL POSITION
 FORMATION SAMPLE TOP ELECTRIC LOG SUB-SEA DIRECTION STRUCTURAL POSITION
 Top Anhydrite 1431 +612 NA
 Base Anhydrite 1411 +512 NA
 Topeka 2969 2971 -928 -8
 Heegner 3180 3180 -1131 -16
 Taranta 3201 3201 -1158 -16
 LKC 3219 3220 -1171 -11
 Arbuckle 3443 3443 -1424 -13
 Arbuckle 3469 3469 -1424 -13

REFERENCE WELL FOR STRUCTURE Continental Oil Co.
 J. Labeiner # 2 NE-SE-NW Sec. 7-9S-18W

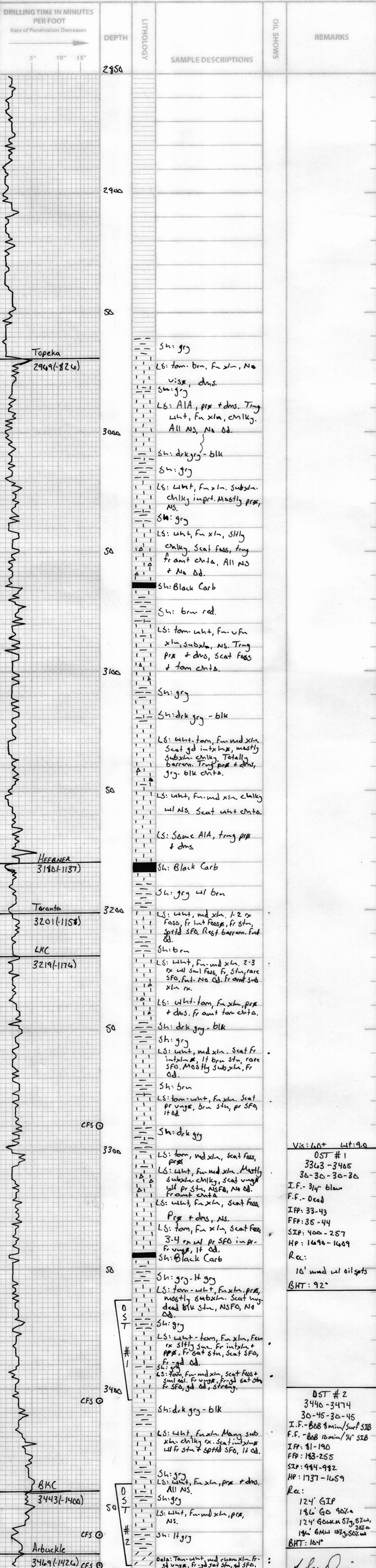
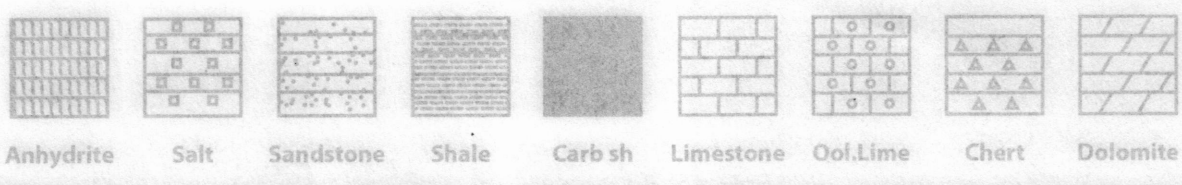
DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	HP-FHP	RECOVERY

REMARKS AND RECOMMENDATIONS
 Due to structural position, DST recovery, + casing for open hole completion of the Arbuckle.

Perforate:
 LKC K: 3417-21
 C: 3258-64

LEGEND



Marc Downing