



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1204487
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
-----------------------------------	-----------------	---

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: _____

1204487

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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: <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 <i>(Explain)</i> _____
---	--

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Odle Olson #19-1

19-6s-24w Graham,KS

Start Date: 2014.05.11 @ 10:10:00

End Date: 2014.05.11 @ 15:50:45

Job Ticket #: 55224 DST #: 1

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

Printed: 2014.05.14 @ 17:12:23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H & C Oil Operating Inc.

19-6s-24w Graham,KS

PO Box 86
Plainville KS 67663

Odle Olson #19-1

Job Ticket: 55224

DST#: 1

ATTN: Marc Downing

Test Start: 2014.05.11 @ 10:10:00

GENERAL INFORMATION:

Formation: **LKC - E & F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:56:30

Time Test Ended: 15:50:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 3780.00 ft (KB) To 3801.00 ft (KB) (TVD)

Reference Elevations: 2530.00 ft (KB)

Total Depth: 3801.00 ft (KB) (TVD)

2523.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6753

Inside

Press@RunDepth: 49.57 psig @ 3781.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.11

End Date:

2014.05.11

Last Calib.:

2014.05.11

Start Time: 10:10:05

End Time:

15:50:44

Time On Btm:

2014.05.11 @ 11:55:45

Time Off Btm:

2014.05.11 @ 13:58:00

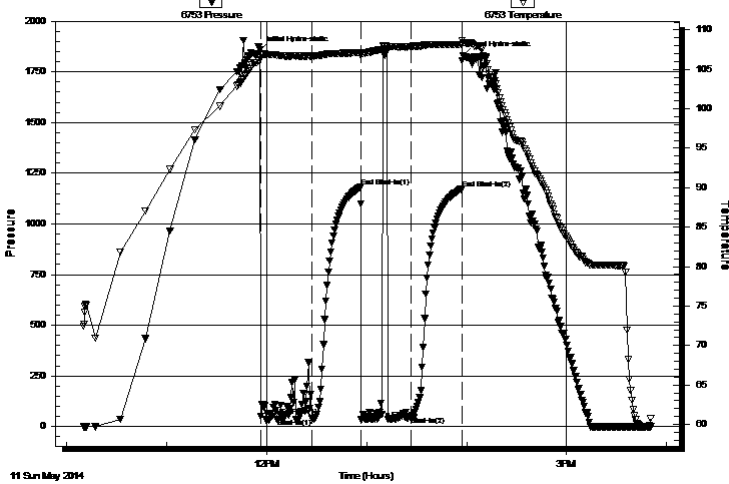
TEST COMMENT: 30 - IF - Surface blow built to 1"

30 - ISI - No Return

30 - FF - No Surface blow

30 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.25	106.45	Initial Hydro-static
1	49.88	106.42	Open To Flow (1)
32	38.98	106.67	Shut-In(1)
61	1181.46	107.13	End Shut-In(1)
61	35.55	106.76	Open To Flow (2)
91	49.57	107.92	Shut-In(2)
122	1172.30	108.17	End Shut-In(2)
123	1832.29	108.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud - 100M	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating Inc.

19-6s-24w Graham,KS

PO Box 86
Plainville KS 67663

Odle Olson #19-1

Job Ticket: 55224

DST#: 1

ATTN: Marc Downing

Test Start: 2014.05.11 @ 10:10:00

Tool Information

Drill Pipe:	Length: 3753.73 ft	Diameter: 3.80 inches	Volume: 52.65 bbl	Tool Weight:	2500.00 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: 30.39 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 52.80 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	23.12 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3780.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Flushed tool 10 mins. into 2nd open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3766.00	
Hydraulic tool	5.00			3771.00	
Packer	4.00			3775.00	19.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Stubb	1.00			3781.00	
Recorder	0.00	8368	Inside	3781.00	
Recorder	0.00	6753	Inside	3781.00	
Perforations	16.00			3797.00	
Bullnose	4.00			3801.00	21.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating Inc.

19-6s-24w Graham,KS

PO Box 86
Plainville KS 67663

Odle Olson #19-1

Job Ticket: 55224

DST#: 1

ATTN: Marc Downing

Test Start: 2014.05.11 @ 10:10:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud - 100M	0.354

Total Length: 45.00 ft Total Volume: 0.354 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

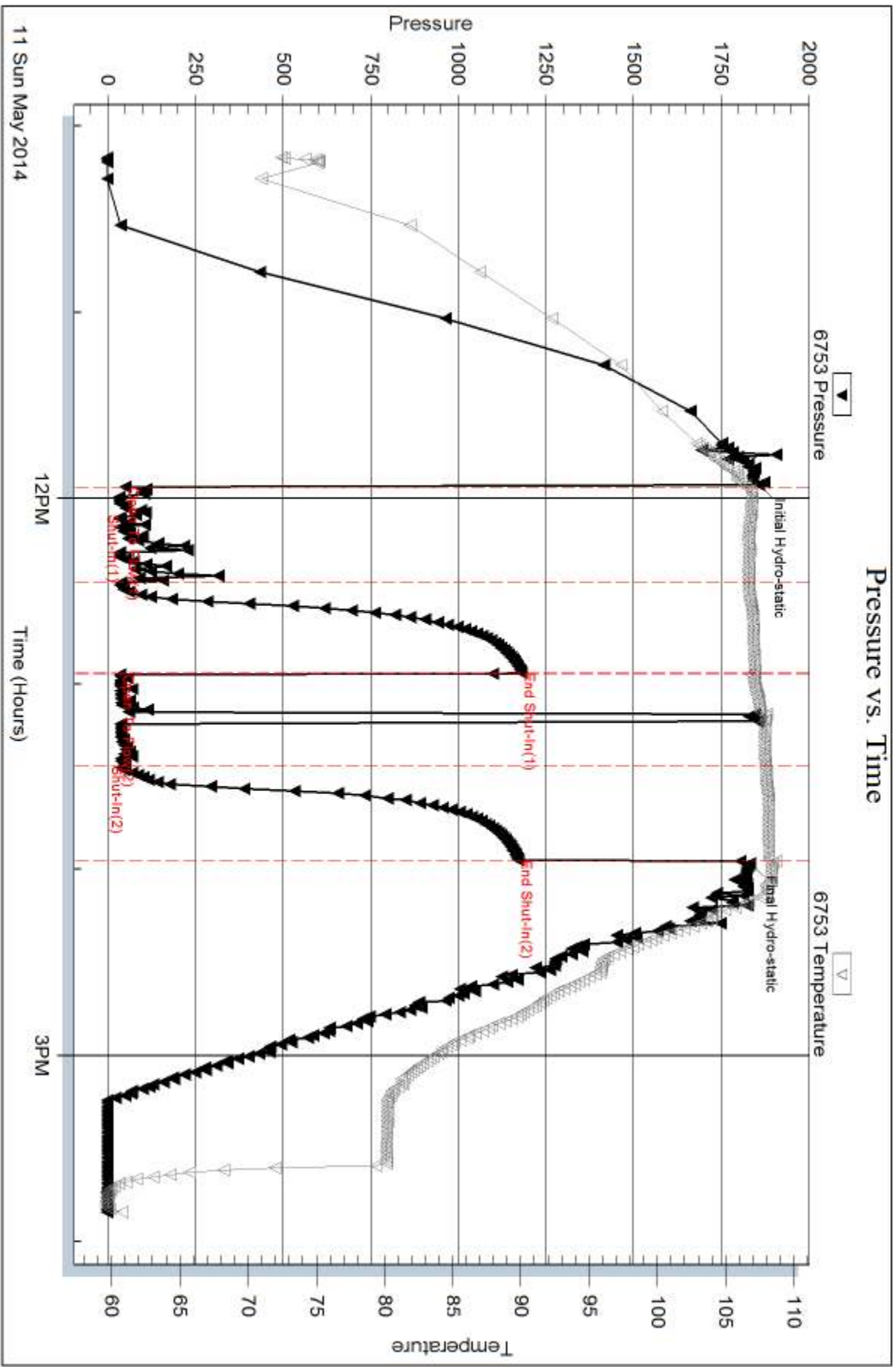
Serial #: 6753

Inside

H & C Oil Operating Inc.

Odle Olson #19-1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 55224

Printed: 2014.05.14 @ 17:12:24

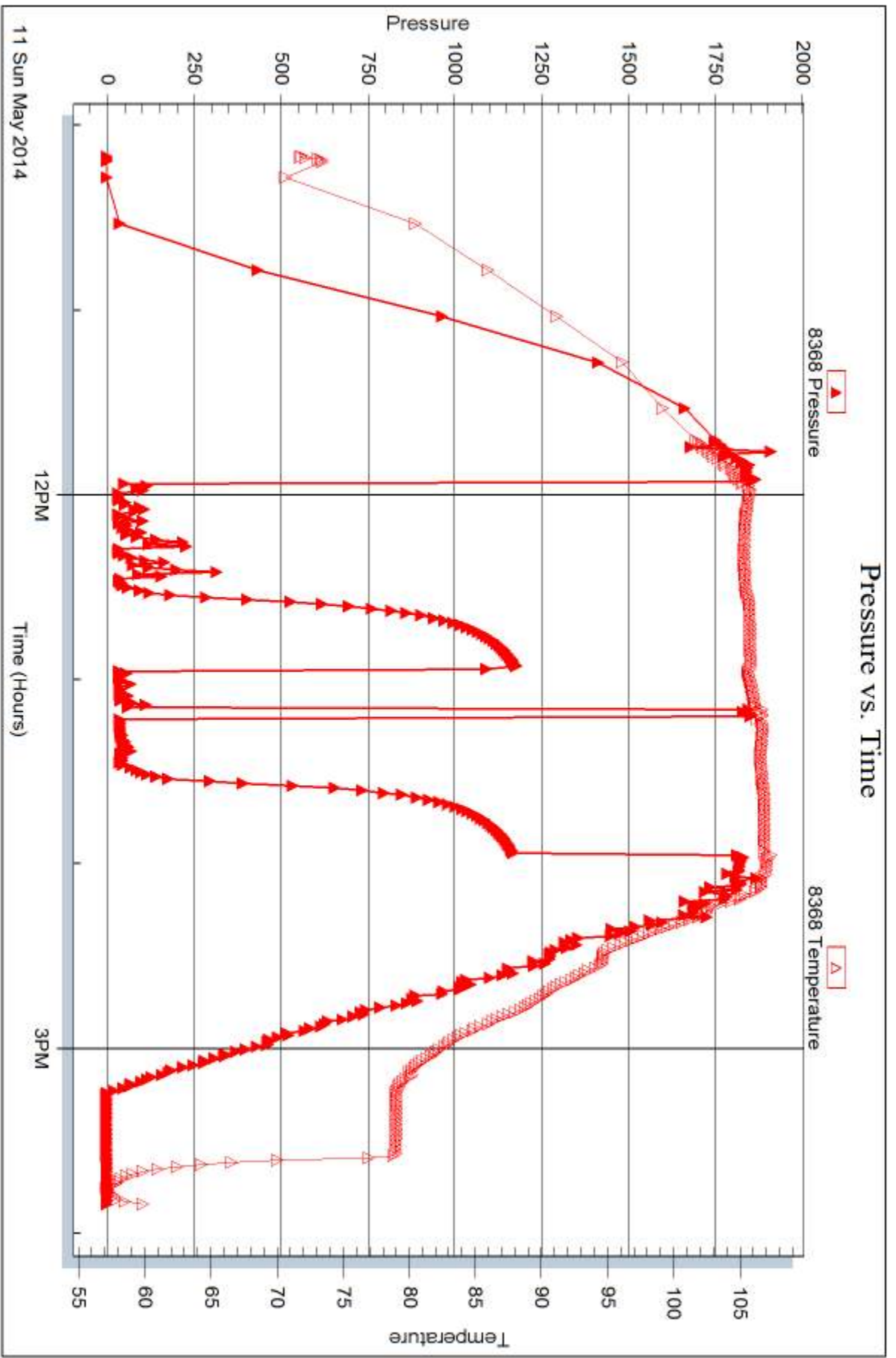
Serial #: 8368

Inside

H & C Oil Operating Inc.

Odle Olson #19-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55224

Printed: 2014.05.14 @ 17:12:24



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Odle Olson #19-1

19-6s-24w Graham,KS

Start Date: 2014.05.12 @ 01:46:00

End Date: 2014.05.12 @ 08:33:15

Job Ticket #: 55225 DST #: 2

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

Printed: 2014.05.14 @ 17:11:28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H & C Oil Operating Inc.

19-6s-24w Graham,KS

PO Box 86
Plainville KS 67663

Odle Olson #19-1

Job Ticket: 55225

DST#: 2

ATTN: Marc Downing

Test Start: 2014.05.12 @ 01:46:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:32:45

Time Test Ended: 08:33:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 3820.00 ft (KB) To 3880.00 ft (KB) (TVD)

Reference Elevations: 2530.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2523.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6753

Inside

Press@RunDepth: 279.87 psig @ 3821.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.12

End Date:

2014.05.12

Last Calib.: 2014.05.12

Start Time: 01:46:05

End Time:

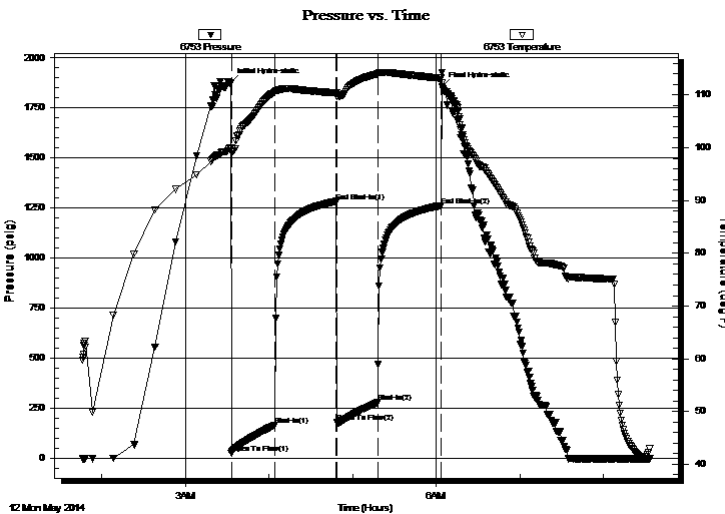
08:33:14

Time On Btm: 2014.05.12 @ 03:32:30

Time Off Btm: 2014.05.12 @ 06:04:15

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 10 mins.
45 - ISI - No Return
30 - FF - Surface blow built to bottom of bucket in 13 mins.
45 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1874.84	99.96	Initial Hydro-static
1	26.76	99.13	Open To Flow (1)
32	167.86	110.58	Shut-In(1)
76	1283.99	110.42	End Shut-In(1)
76	182.47	109.67	Open To Flow (2)
106	279.87	114.01	Shut-In(2)
151	1262.75	113.19	End Shut-In(2)
152	1855.19	111.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OSMW - 30M - 70W - oil spots	1.46
372.00	OSWM - 50M - 50W - oil spots	5.22
72.00	OCWM - 50M - 40W - 10o	1.01
10.00	Free Oil	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H & C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

19-6s-24w Graham, KS

Odle Olson #19-1

Job Ticket: 55225 **DST#: 2**

Test Start: 2014.05.12 @ 01:46:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 03:32:45

Time Test Ended: 08:33:15

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Royal Fisher**

Unit No: **#54**

Interval: 3820.00 ft (KB) To 3880.00 ft (KB) (TVD)

Reference Elevations: **2530.00 ft (KB)**

Total Depth: **3880.00 ft (KB) (TVD)**

2523.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **7.00 ft**

Serial #: 8368

Inside

Press@RunDepth: psig @ **3821.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2014.05.12** End Date: **2014.05.12**

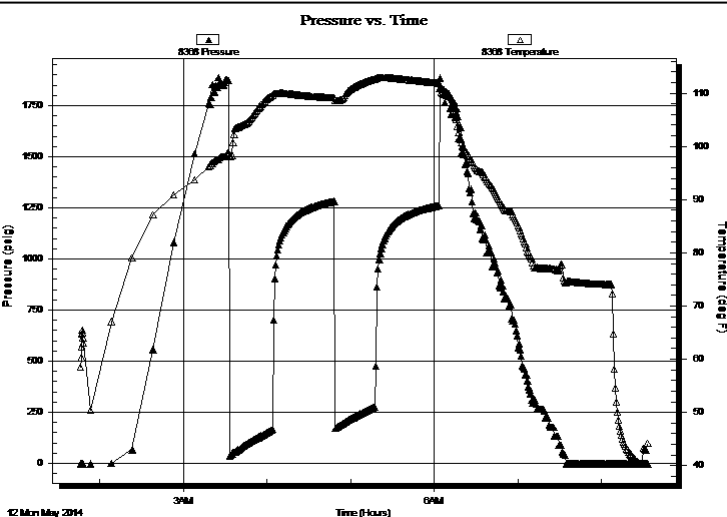
Last Calib.: **2014.05.12**

Start Time: **01:46:05** End Time: **08:33:14**

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 10 mins.
45 - ISI - No Return
30 - FF - Surface blow built to bottom of bucket in 13 mins.
45 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OSMW - 30M - 70W - oil spots	1.46
372.00	OSWM - 50M - 50W - oil spots	5.22
72.00	OCWM - 50M - 40W - 10o	1.01
10.00	Free Oil	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating Inc.

19-6s-24w Graham,KS

PO Box 86
Plainville KS 67663

Odle Olson #19-1

Job Ticket: 55225

DST#: 2

ATTN: Marc Downing

Test Start: 2014.05.12 @ 01:46:00

Tool Information

Drill Pipe:	Length: 3786.32 ft	Diameter: 3.80 inches	Volume: 53.11 bbl	Tool Weight: 2500.00 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: 30.39 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 53.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.71 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3820.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3806.00	
Hydraulic tool	5.00			3811.00	
Packer	4.00			3815.00	19.00 Bottom Of Top Packer
Packer	5.00			3820.00	
Stubb	1.00			3821.00	
Recorder	0.00	8368	Inside	3821.00	
Recorder	0.00	6753	Inside	3821.00	
Perforations	22.00			3843.00	
Change Over Sub	1.00			3844.00	
Drill Pipe	31.00			3875.00	
Change Over Sub	1.00			3876.00	
Bullnose	4.00			3880.00	60.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating Inc.

19-6s-24w Graham,KS

PO Box 86
Plainville KS 67663

Odle Olson #19-1

Job Ticket: 55225

DST#: 2

ATTN: Marc Downing

Test Start: 2014.05.12 @ 01:46:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	OSMW - 30M - 70W - oil spots	1.463
372.00	OSWM - 50M - 50W - oil spots	5.218
72.00	OCWM - 50M - 40W - 10o	1.010
10.00	Free Oil	0.140

Total Length: 578.00 ft

Total Volume: 7.831 bbl

Num Fluid Samples: 0

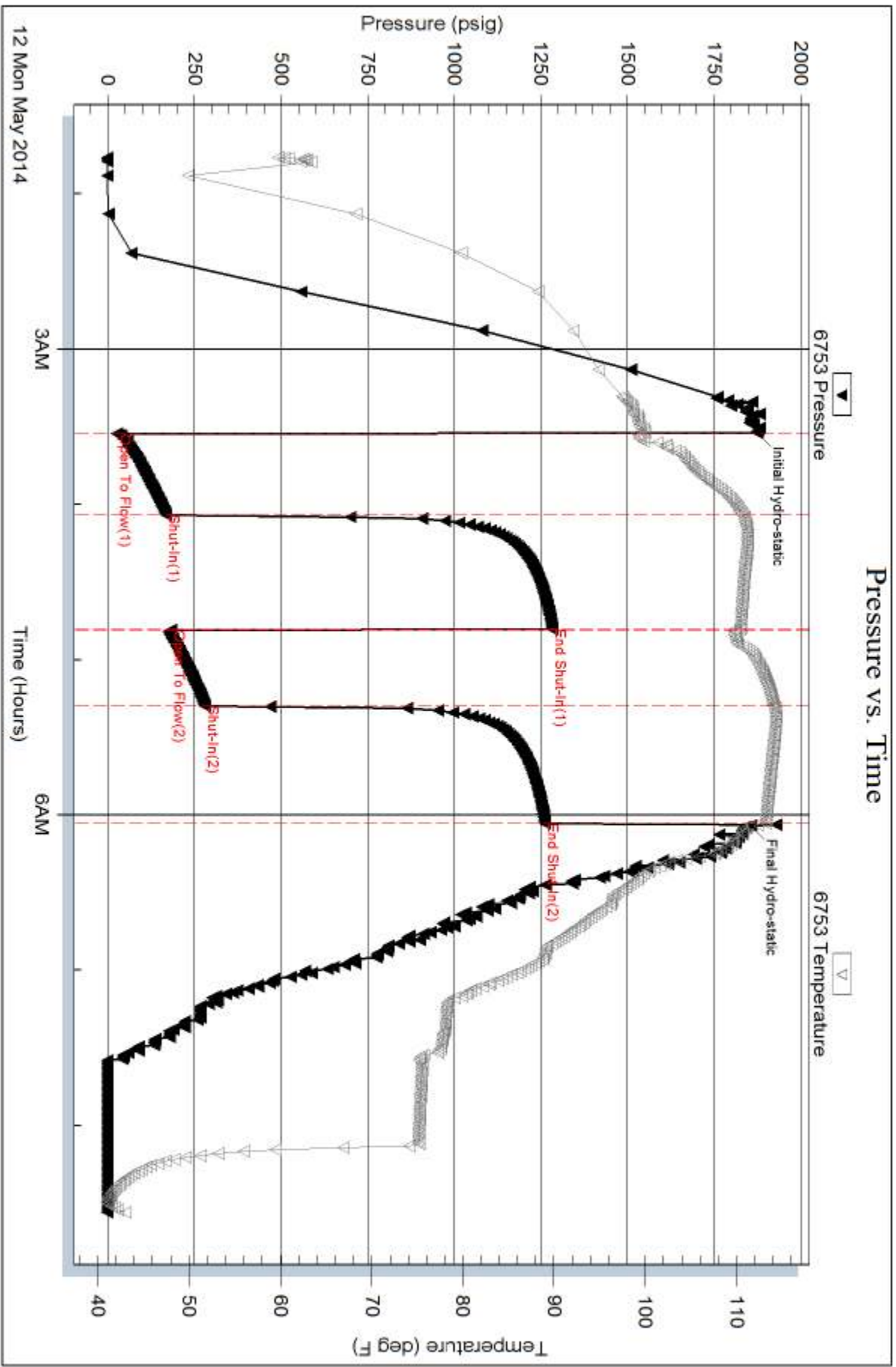
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



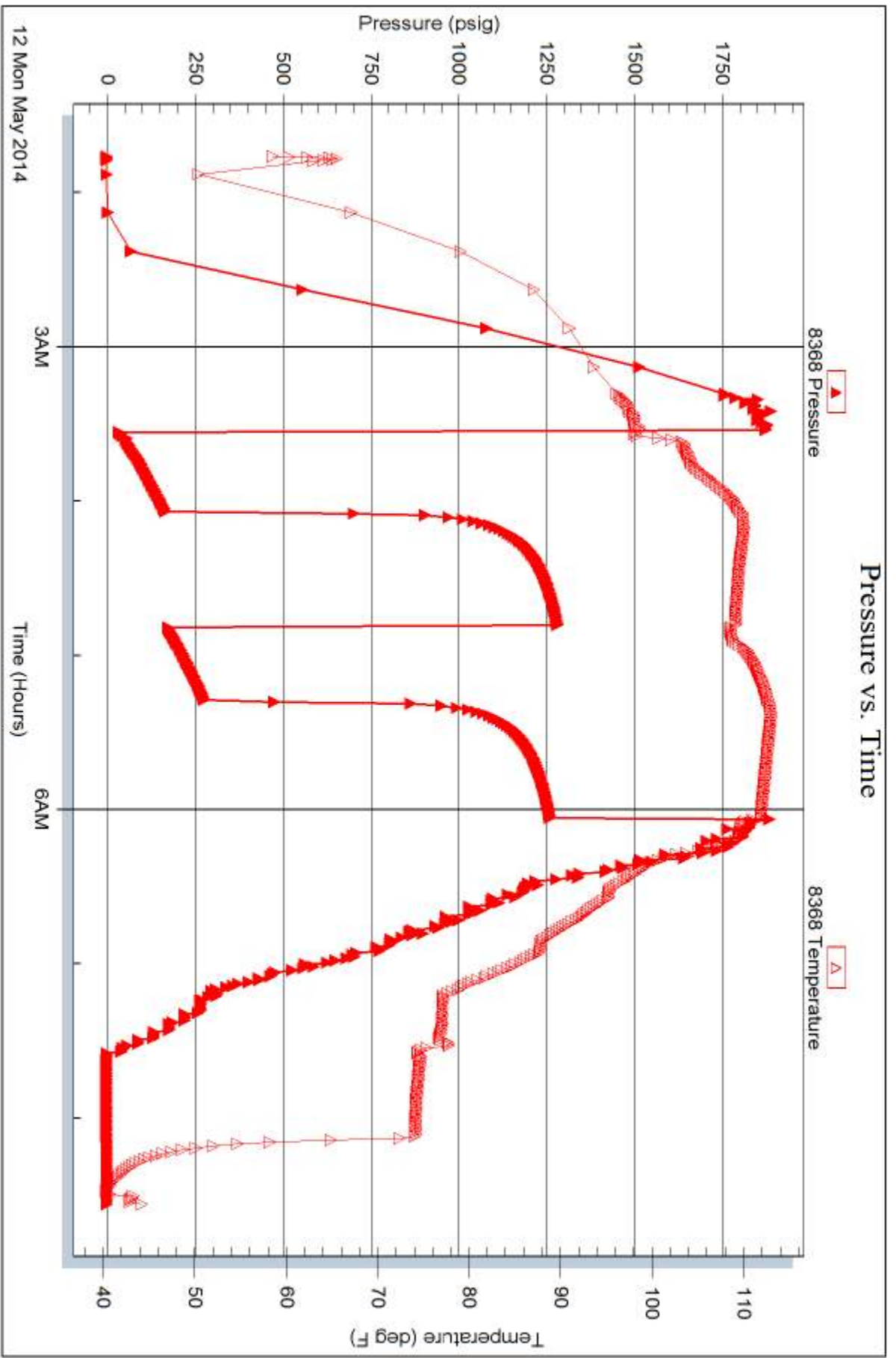
Serial #: 8368

Inside

H & C Oil Operating Inc.

Odle Olson #19-1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 55225

Printed: 2014.05.14 @ 17:11:29



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55224

Well Name & No. Odle Olson #19-1 Test No. 1 Date 5-11-14
 Company H+C Oil Operating Inc. Elevation 2530 KB 2523 GL
 Address PO Box 86 Plainville KS 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #2
 Location: Sec. 19 Twp. 6S Rge. 24W Co. Graham State KS

Interval Tested 3780 - 3801 Zone Tested LKC-E4F
 Anchor Length 21' Drill Pipe Run 3753.73' Mud Wt. 9.2
 Top Packer Depth 3775 Drill Collars Run 30.39' Vis 53
 Bottom Packer Depth 3780 Wt. Pipe Run 0 WL 6.8
 Total Depth 3801 Chlorides 1100 ppm System LCM 3#

Blow Description IF - surface blow built to 1"
ISI - No Return
FF - No surface blow
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>45'</u>	<u>Mud</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 45' BHT 108°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1857 Test 1150 T-On Location 9:30am
 (B) First Initial Flow 49 Jars _____ T-Started 10:10am
 (C) First Final Flow 38 Safety Joint _____ T-Open 11:56am
 (D) Initial Shut-In 1181 Circ Sub N/C T-Pulled 1:56pm
 (E) Second Initial Flow 35 Hourly Standby _____ T-Out 3:51pm
 (F) Second Final Flow 49 Mileage 124 R/T 192.20 Comments Flushed tool 10mins
 (G) Final Shut-In 1172 Sampler _____ into 2nd Open, and
 (H) Final Hydrostatic 1832 Straddle _____ chased tool 10ft to bottom.
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1342.20
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1342.20

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55225**

Well Name & No. Odle Olson #19-1 Test No. 2 Date 5-12-14
 Company H+C Oil Operating Inc. Elevation 2530 KB 2523 GL
 Address PO Box 86 Plainville KS 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #2
 Location: Sec. 19 Twp. 6S Rge. 24 W Co. Graham State KS

Interval Tested 3820-3880 Zone Tested LKC-H, I, J
 Anchor Length 60' Drill Pipe Run 3786.32' Mud Wt. 9.2
 Top Packer Depth 3815 Drill Collars Run 30.39' Vis 53
 Bottom Packer Depth 3820 Wt. Pipe Run 0 WL 6.8
 Total Depth 3880 Chlorides 1100 ppm System LCM 3#

Blow Description IF - Surface blow built to bottom of bucket in 10 mins.
ISI - No return
FF - Surface blow built to bottom of bucket in 13 mins.
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
72'	OCWM	10	40	50	
372'	OSWM	Spots	50	50	
124'	OSMW	Spots	70	30	
10'	Free Oil	100			

Rec Total 578' BHT 113°F Gravity _____ API RW 174 @ 42 °F Chlorides 75,000 ppm

(A) Initial Hydrostatic 1874 Test 1150 T-On Location 11:5am
 (B) First Initial Flow 26 Jars _____ T-Started 1:46am
 (C) First Final Flow 167 Safety Joint _____ T-Open 3:33am
 (D) Initial Shut-In 1283 Circ Sub N/C T-Pulled 6:03am
 (E) Second Initial Flow 182 Hourly Standby _____ T-Out 8:33am
 (F) Second Final Flow 279 Mileage 124 R/T 384.40 Comments picked up tool 5-12-14
 (G) Final Shut-In 1262 Sampler _____ on location 10:15pm waited on
 (H) Final Hydrostatic 1855 Straddle _____ loggers for 30mins left at 11:3
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____ Sub Total 0
 Initial Shut-In 45 Extra Recorder _____ Total 1534.40
 Final Flow 30 Day Standby _____ MP/DST Disc't _____
 Final Shut-In 45 Accessibility _____
 Sub Total 1534.40

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.

Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator H&C Oil Operating, Inc.		Elevation KB 2530 DF GL 2523	
Lease Odle Olson No. 19-1		Casing Record Surface 8 5/8" @ 346' Production None	
API # 15-065-24039-0000		Electrical Surveys CNL/CDL, DIL, MEL	
Field Wildcat		Location 1320' FNL & 1900' FEL	
Sec. 19	Twp. 6s	Rge. 24w	
County Graham		State Kansas	
Formation	Sample tops	Log Tops	Datum
Top Anhydrite	2176	2174	+356
Base Anhydrite	2208	2207	+323
Topoka	3481	3479	-949
Heebner	3690	3687	-1157
Toronto	3712	3710	-1180
LKC	3727	3726	-1196
BKC	3910	3909	-1379
Total Depth	3965	3964	-1434
Reference Well For Structural Comparison King Oil Operating		Dougherty #1 NW NW NE Sec. 30-6s-24w	

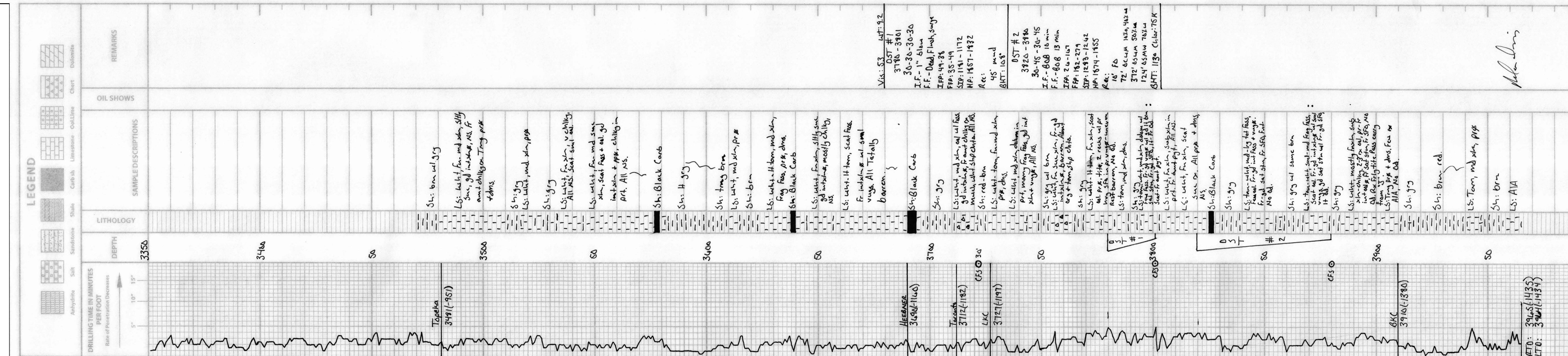
Drilling Contractor	American Eagle, Rig #2	
Commenced	5-6-14	Completed 5-12-14
Samples Saved From	3450	To RTD
Drilling Time Kept From	3350	To RTD
Samples Examined From	3450	To RTD
Geological Supervision From	3450	To RTD

Summary and Recommendations

Due to structural position, DST recovery, and log evaluation, it was decided to plug and abandon the well.

Respectfully Submitted,

Marc A. Downing



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. 177

Date <u>5-6-14</u>		Sec. <u>19</u>	Twp. <u>6</u>	Range <u>24</u>	County <u>Graham</u>	State <u>KS</u>	On Location	Finish <u>4:00 PM</u>
Lease <u>Odlel Olson</u>		Well No. <u>19-1</u>			Location <u>Hill City 10w 170Rd 11N to BB Rd 1/2 v</u>		SINO	
Contractor <u>American Eagle 2</u> To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.								
Type Job <u>Surface</u>	Charge To <u>H+C</u>							
Hole Size <u>12 1/4</u>	T.D. <u>346'</u>							
Csg. <u>8 5/8</u>	Depth <u>346'</u>							
Tbg. Size	Depth							
Tool	Depth							
Cement Left in Csg. <u>30'</u>	Shoe Joint							
Meas Line	Displace <u>20 bbl</u>							
EQUIPMENT								
Pumptrk <u>16</u>	No. <u>Billy</u>	Cementier Helper						
Bulktrk <u>14</u>	No. <u>Doug</u>	Driver						
Bulktrk <u>Pu</u>	No. <u>Brett</u>	Driver						
JOB SERVICES & REMARKS								
Remarks:								
Rat Hole								
Mouse Hole								
Centralizers								
Baskets								
D/V or Port Collar								
	226							
	Mileage							
	Handling							
	Sand							
	CFL-117 or CD110 CAF 38							
	Mud CLR 48							
	Kol-Seal							
	Flowseal							
	Salt							
	Hulls							
	Calcium <u>7</u>							
	Gel. <u>4</u>							
	Poz. Mix							
	Common <u>215</u>							
	Cement Amount Ordered <u>215 com 3% cc 2% Gel</u>							
	The above was done to satisfaction and supervision of owner agent or contractor.							
	State							
	City							
	Street							
	Charge To							

Cement

Circulator

Quality Oilwell Cementing

Pumptrk Charge Surface

Mileage 33

X Signature Quayle Kishel

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

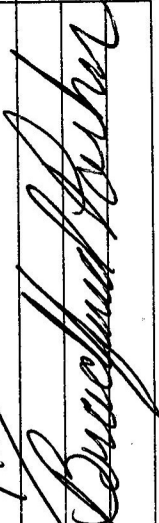
Federal Tax I.D.# 20-2886107

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

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

No. 124

Sec.	Twp.	Range	County	State	On Location	Finish
19	6	24	GRAHAM	Kansas		7:30 AM
Date 5-13-2014			Location: Penokee Ks, 3w 11n 1/2w 12se into			
Lease ODIE - OLSON			Well No. 19-1			
Contractor AMERICAN EAGLE DRILLING RIG #2						
Type Job ROTARY PLUG						
Hole Size 7 7/8" T.D. 3965						
Csg. 8 5/8 SUBFACE Depth 346						
Tbg. Size 4 1/2 DRILL PIPE Depth @ 2200'						
Tool						
Cement Left in Csg. Shoe Joint						
Meas Line Displace						
EQUIPMENT						
Pumptrk	No.	Cementer				
18		GILMAN G.				
		HELPER				
		CODY B.				
Bulktrk	No.	Driver				
15		RYAN M.				
		Driver				
		Driver				
JOB SERVICES & REMARKS						
Remarks:						
Rat Hole	30 SX					
Mouse Hole						
Centralizers						
Baskets						
D/V or Port Collar						
Load Hole & received CIRCULATION						
25 SX @ 2200'						
100 SX @ 1350'						
40 SX @ 400'						
10 SX @ 40' w/wiper Plug						
30 SX @ Rat Hole						
FLOAT EQUIPMENT						
DRY Hole Wood Plug						
Centralizer						
Baskets						
AFU Inserts						
Float Shoe						
Latch Down						
Pumptrk Charge						
Mileage 33						
Tax						
Discount						
Total Charge						

THANKS.

 Signature