



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1218319
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: _____

1218319

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
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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: _____ _____
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Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Rice-Davis Unit 6-1
Doc ID	1218319

All Electric Logs Run

Borehole Compensated Sonic log
Microresistivity log
Dual induction log
Dual compensated porosity log

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Rice-Davis Unit 6-1
Doc ID	1218319

Tops

Name	Top	Datum
Top Anhydrite	1962	+405
Base Anhydrite	1994	+373
Topeka	3402	-1035
Heebner	3616	-1249
Toronto	3638	-1271
LKC	3649	-1282
BKC	3865	-1318
Marmaton		-1581
Arbuckle		-1667

QUALITY OILWELL CEMENTING, INC.

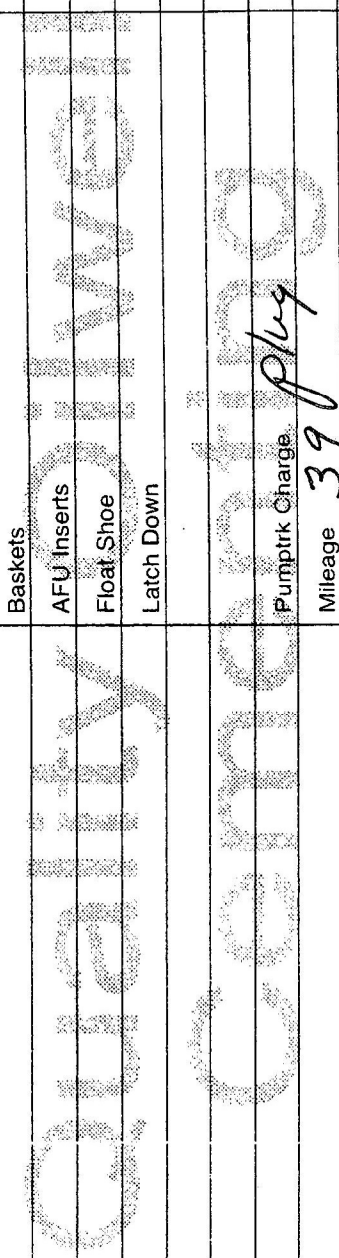
Federal Tax I.D.# 20-2886107

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

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

No. 370

Date	8-6-14	Sec.	69	Twp.	22	Range	Graham	County	KS	State	On Location	Finish
Lease	Rice Davis Unit											
Well No.	6-1											
Contractor	American Basic #3											
Type Job	Kotter / Plug											
Hole Size	7 7/8											
T.D.	4067											
Charge To	HAC											
Street												
City												
State												
Tool	The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.	Cement Amount Ordered 290 6740 4/62 1/4 H/O											
Meas Line	Displace											
EQUIPMENT												
Pumptrk	18	No.	Cemented									
			Helper									
Bulktrk		No.	Driver									
			Driver									
Bulktrk	15	No.	Driver									
			Driver									
JOB SERVICES & REMARKS												
Remarks:												
Rat Hole	325K											
Mouse Hole												
Centralizers												
Baskets												
DN or Port Collar												
	1st	4014	505K									
	2nd	1975	505K									
	3rd	1120	1005K									
	4th	275	505K									
	5th	40	105K									
	Handling 300											
	Mileage											
	GUIDE SHOE											
	CENTRALIZER											
	BASKETS											
	AFU INSERTS											
	FLOAT SHOE											
	LATCH DOWN											
	Pumptrk Charge											
	Mileage 39											
	Tax											
	Discount											
	Total Charge											



X Signature *Andy R*

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. 526

Date	7-29-14	Sec.	6	Twp.	9	Range	22	County	Graham	State	KS	On Location		Finish	4:15 PM
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Location Hill City Sto L Rd LE 3 N E140

Lease Rice-Davis Well No. 6-1

Contractor American Eagle #3
 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	Surface
Hole Size	12 1/4
Csg.	8 5/8
Tbg. Size	
Tool	
Cement Left in Csg.	20'
Charge To	H+C
Street	
City	
State	
Cement Amount Ordered	160 sk 3% cc 2% Gel

Meas Line Displace 13 bb'

EQUIPMENT

Pumptrk	5	No.	Cementer	David
Bulktrk	3	No.	Driver	Ryan
Bulktrk	Pu	No.	Driver	Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

DN or Port Collar

Sand

Handling 168

Mileage

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

CFL-117 or CD110 CAF 38

Mud CLR 48

Common 160

Poz. Mix

Gel. 3

Calcium 5

Hulls

Salt

Flowseal

Kol-Seal

Cement Circulated!

Quality Oilwell Cementing

Pumptrk Charge Surface

Mileage 59

X Signature	<i>Andy P</i>	Tax	
		Discount	
		Total Charge	



DRILL STEM TEST REPORT

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

Po Box 86
Plainville KS 67663

ATTN: Marc Downing

Rice-Davis #6-1

6-9s-22w Graham KS

Start Date: 2014.08.02 @ 23:36:00

End Date: 2014.08.03 @ 11:43:15

Job Ticket #: 59328 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.06 @ 15:15:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H & C Oil Operating Inc

6-9s-22w Graham KS

Po Box 86
Plainville KS 67663

Rice-Davis #6-1

Job Ticket: 59328

DST#: 1

ATTN: Marc Downing

Test Start: 2014.08.02 @ 23:36:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:14:30

Time Test Ended: 11:43:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3675.00 ft (KB) To 3717.00 ft (KB) (TVD)

Reference Elevations: 2262.00 ft (KB)

Total Depth: 3717.00 ft (KB) (TVD)

2257.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 871.42 psig @ 3712.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.02

End Date:

2014.08.03

Last Calib.:

2014.08.03

Start Time:

23:36:05

End Time:

11:43:15

Time On Btm:

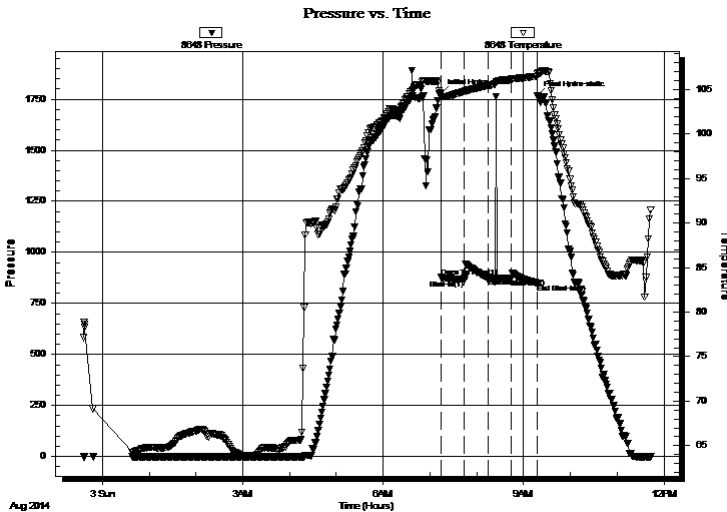
2014.08.03 @ 07:14:15

Time Off Btm:

2014.08.03 @ 09:17:45

TEST COMMENT: 30 - IF- 1/2" blow , died back to 1/4" - 15' of fill in hole
30 - IS- No return
30 - FF- No blow for 10 minutes, flushed tool. Surged and died
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1777.28	104.50	Initial Hydro-static
1	877.16	104.06	Open To Flow (1)
30	864.99	104.77	Shut-In(1)
60	876.60	105.42	End Shut-In(1)
61	874.95	105.44	Open To Flow (2)
90	871.42	106.15	Shut-In(2)
123	844.24	106.49	End Shut-In(2)
124	1765.75	106.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1860.00	Mud, 100%M	25.82

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating Inc

6-9s-22w Graham KS

Po Box 86
Plainville KS 67663

Rice-Davis #6-1

Job Ticket: 59328

DST#: 1

ATTN: Marc Downing

Test Start: 2014.08.02 @ 23:36:00

Tool Information

Drill Pipe:	Length: 3656.00 ft	Diameter: 3.80 inches	Volume: 51.28 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: 66000.00 lb
			<u>Total Volume: 51.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3675.00 ft			Final 45000.00 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			3655.00	
Shut In Tool	5.00			3660.00	
Hydraulic tool	5.00			3665.00	
Packer	5.00			3670.00	21.00 Bottom Of Top Packer
Packer	5.00			3675.00	
Stubb	1.00			3676.00	
Perforations	3.00			3679.00	
Change Over Sub	1.00			3680.00	
Drill Pipe	31.00			3711.00	
Change Over Sub	1.00			3712.00	
Recorder	0.00	8648	Inside	3712.00	
Recorder	0.00	8940	Outside	3712.00	
Perforations	2.00			3714.00	
Bullnose	3.00			3717.00	42.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating Inc

6-9s-22w Graham KS

Po Box 86
Plainville KS 67663

Rice-Davis #6-1

Job Ticket: 59328

DST#: 1

ATTN: Marc Downing

Test Start: 2014.08.02 @ 23:36:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1860.00	Mud, 100%M	25.818

Total Length: 1860.00 ft Total Volume: 25.818 bbl

Num Fluid Samples: 0

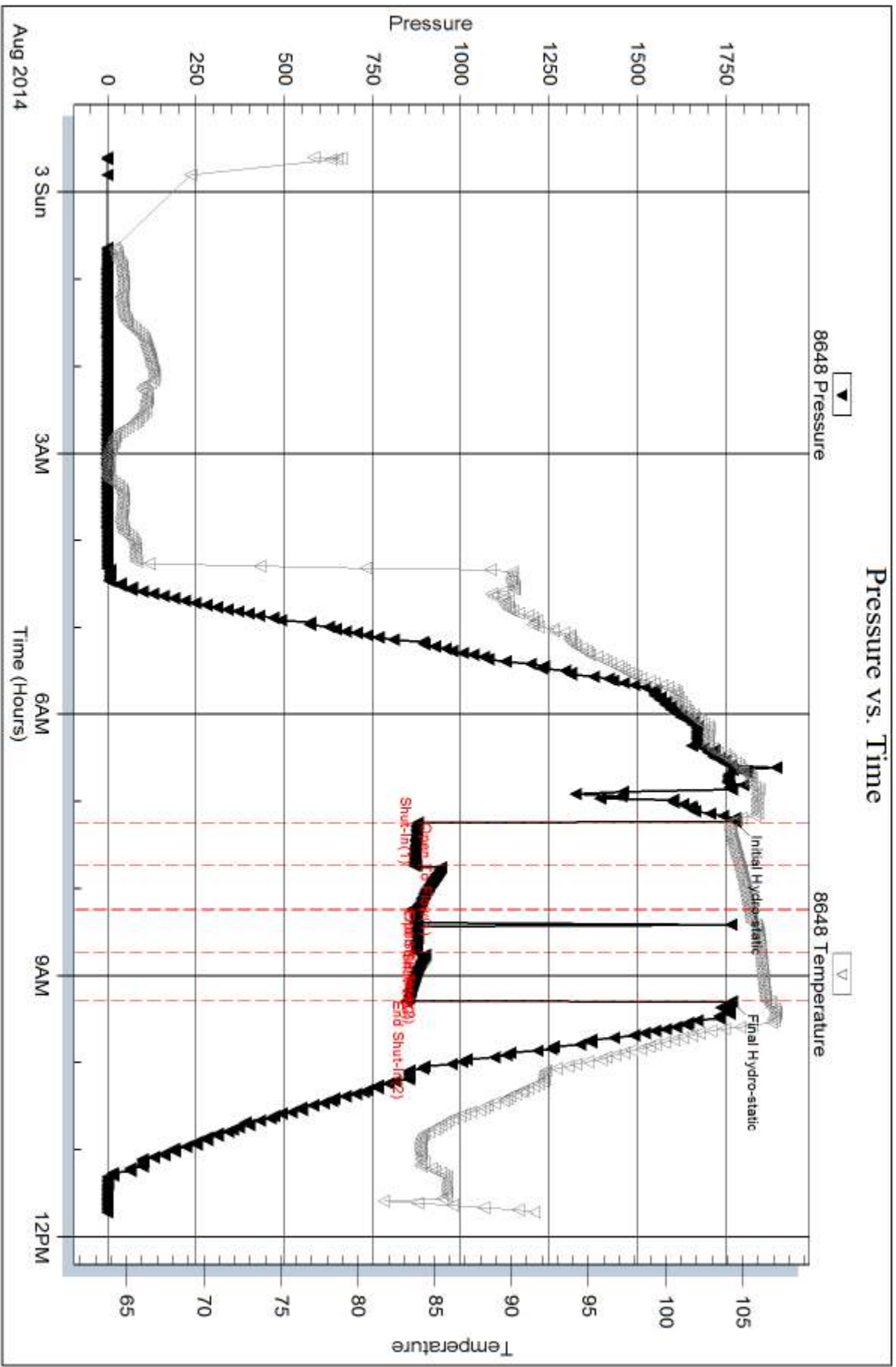
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

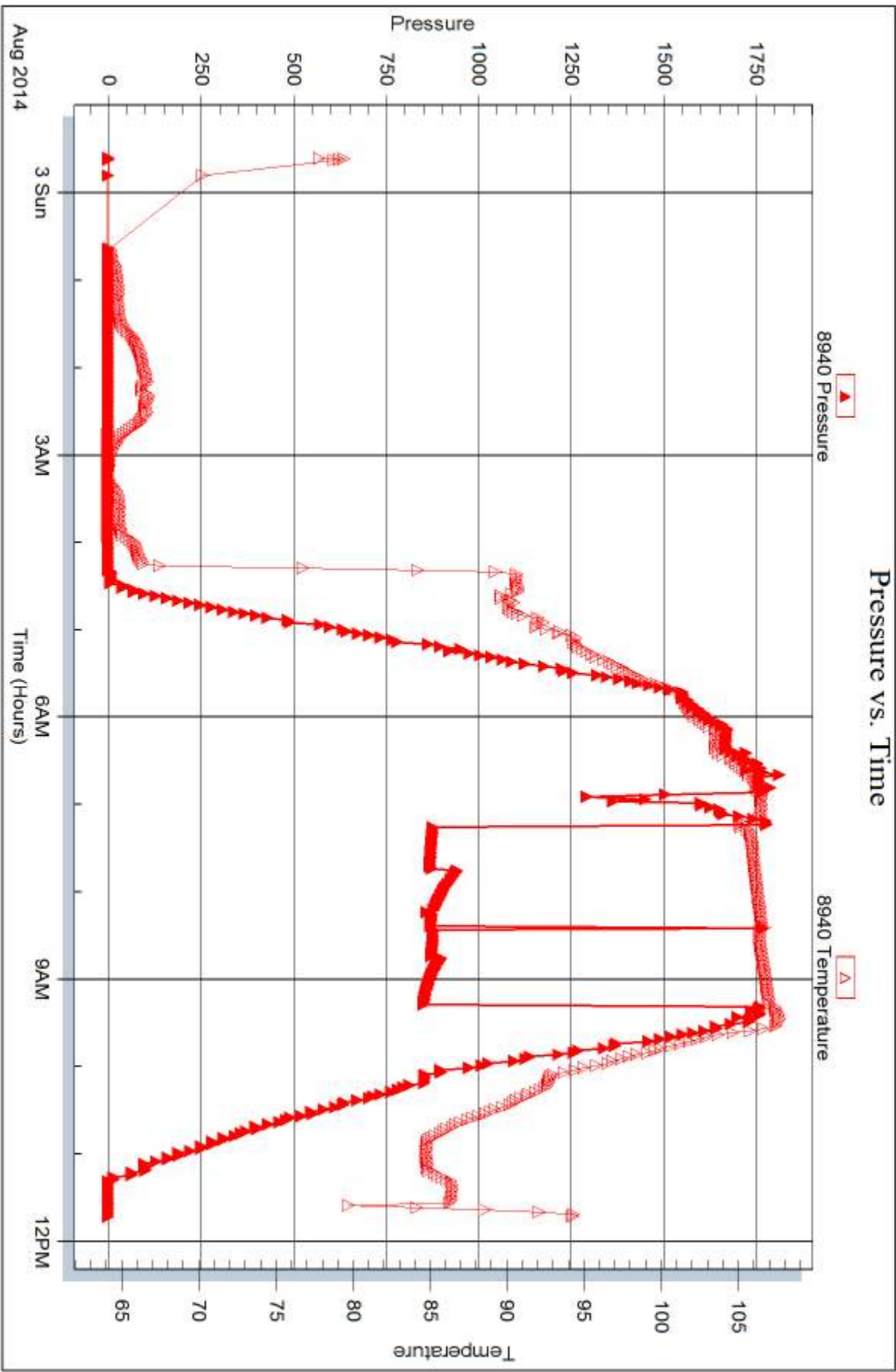


Serial #: 8940

Outside H & C Oil Operating Inc

Rice-Davis #6-1

DST Test Number: 1





DRILL STEM TEST REPORT

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

Po Box 86
Plainville KS 67663

ATTN: Marc Downing

Rice-Davis #6-1

6-9s-22w Graham KS

Start Date: 2014.08.04 @ 06:42:00

End Date: 2014.08.04 @ 14:36:30

Job Ticket #: 59329 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.06 @ 15:15:19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H & C Oil Operating Inc

6-9s-22w Graham KS

Po Box 86
Plainville KS 67663

Rice-Davis #6-1

Job Ticket: 59329

DST#: 2

ATTN: Marc Downing

Test Start: 2014.08.04 @ 06:42:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:30:30

Time Test Ended: 14:36:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3767.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2262.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2257.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 72.63 psig @ 3835.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.04

End Date:

2014.08.04

Last Calib.: 2014.08.04

Start Time: 06:42:05

End Time:

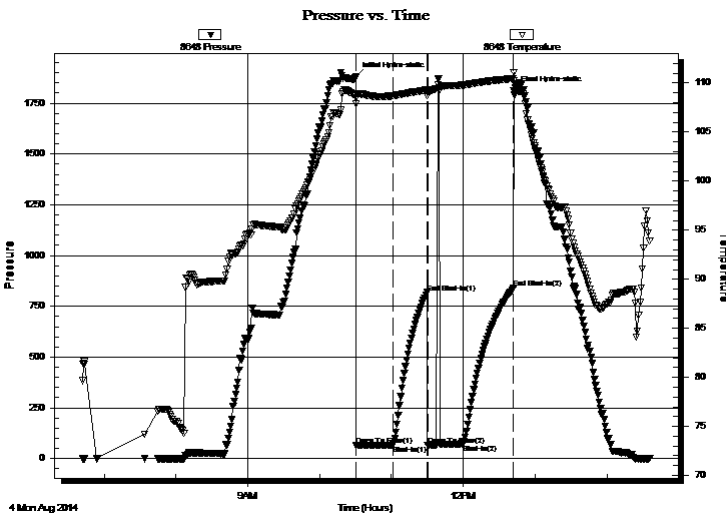
14:36:29

Time On Btm: 2014.08.04 @ 10:30:15

Time Off Btm: 2014.08.04 @ 12:42:15

TEST COMMENT: 30 - IF- 3/4" blow . died back to 1/2" blow
30 - IS- No return
30 - FF- No blow for 10 minutes, flushed tool, surged and died
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.40	108.73	Initial Hydro-static
1	63.70	107.85	Open To Flow (1)
31	66.36	108.68	Shut-In(1)
60	818.06	109.28	End Shut-In(1)
60	65.63	108.75	Open To Flow (2)
90	72.63	109.78	Shut-In(2)
132	838.62	110.46	End Shut-In(2)
132	1810.51	111.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud - Oil spots, 100%M	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H & C Oil Operating Inc

6-9s-22w Graham KS

Po Box 86
Plainville KS 67663

Rice-Davis #6-1

ATTN: Marc Downing

Job Ticket: 59329 **DST#: 2**

Test Start: 2014.08.04 @ 06:42:00

GENERAL INFORMATION:

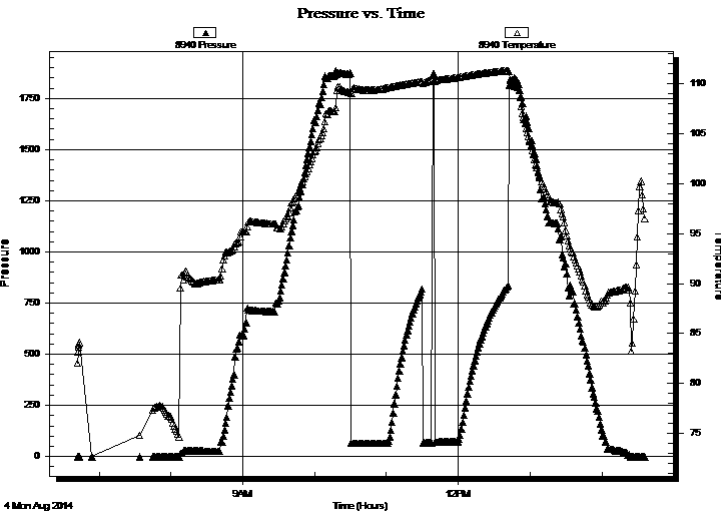
Formation: **LKC "H-K"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 10:30:30 Tester: Cody Bloedorn
 Time Test Ended: 14:36:30 Unit No: 73

Interval: 3767.00 ft (KB) To 3850.00 ft (KB) (TVD) Reference Elevations: 2262.00 ft (KB)
 Total Depth: 3850.00 ft (KB) (TVD) 2257.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8940 Outside

Press@RunDepth: psig @ 3835.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.04 End Date: 2014.08.04 Last Calib.: 2014.08.04
 Start Time: 06:42:05 End Time: 14:36:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 3/4" blow . died back to 1/2" blow
 30 - ISI- No return
 30 - FF- No blow for 10 minutes, flushed tool, surged and died
 30 - FSI- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud - Oil spots, 100%M	0.10

* 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

6-9s-22w Graham KS

Po Box 86
Plainville KS 67663

Rice-Davis #6-1

Job Ticket: 59329

DST#: 2

ATTN: Marc Downing

Test Start: 2014.08.04 @ 06:42:00

Tool Information

Drill Pipe:	Length: 3725.00 ft	Diameter: 3.80 inches	Volume: 52.25 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:	44000.00 lb
			<u>Total Volume: 52.40 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3767.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	104.00 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			3747.00	
Shut In Tool	5.00			3752.00	
Hydraulic tool	5.00			3757.00	
Packer	5.00			3762.00	21.00 Bottom Of Top Packer
Packer	5.00			3767.00	
Stubb	1.00			3768.00	
Perforations	3.00			3771.00	
Change Over Sub	1.00			3772.00	
Drill Pipe	62.00			3834.00	
Change Over Sub	1.00			3835.00	
Recorder	0.00	8648	Inside	3835.00	
Recorder	0.00	8940	Outside	3835.00	
Perforations	12.00			3847.00	
Bullnose	3.00			3850.00	83.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating Inc

6-9s-22w Graham KS

Po Box 86
Plainville KS 67663

Rice-Davis #6-1

Job Ticket: 59329

DST#: 2

ATTN: Marc Downing

Test Start: 2014.08.04 @ 06:42:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud - Oil spots, 100%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

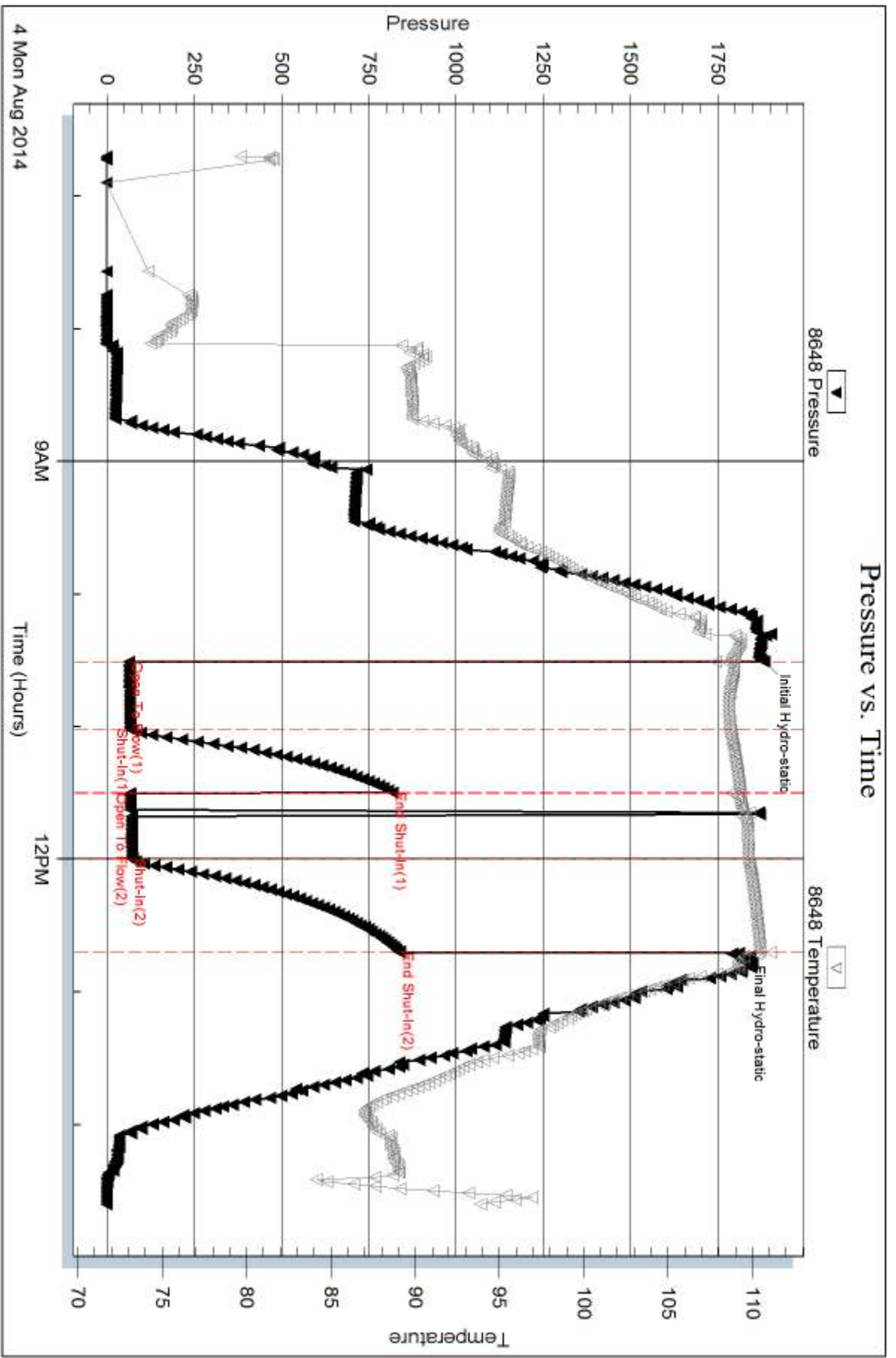
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Had 8' of fill in bottom of hole.

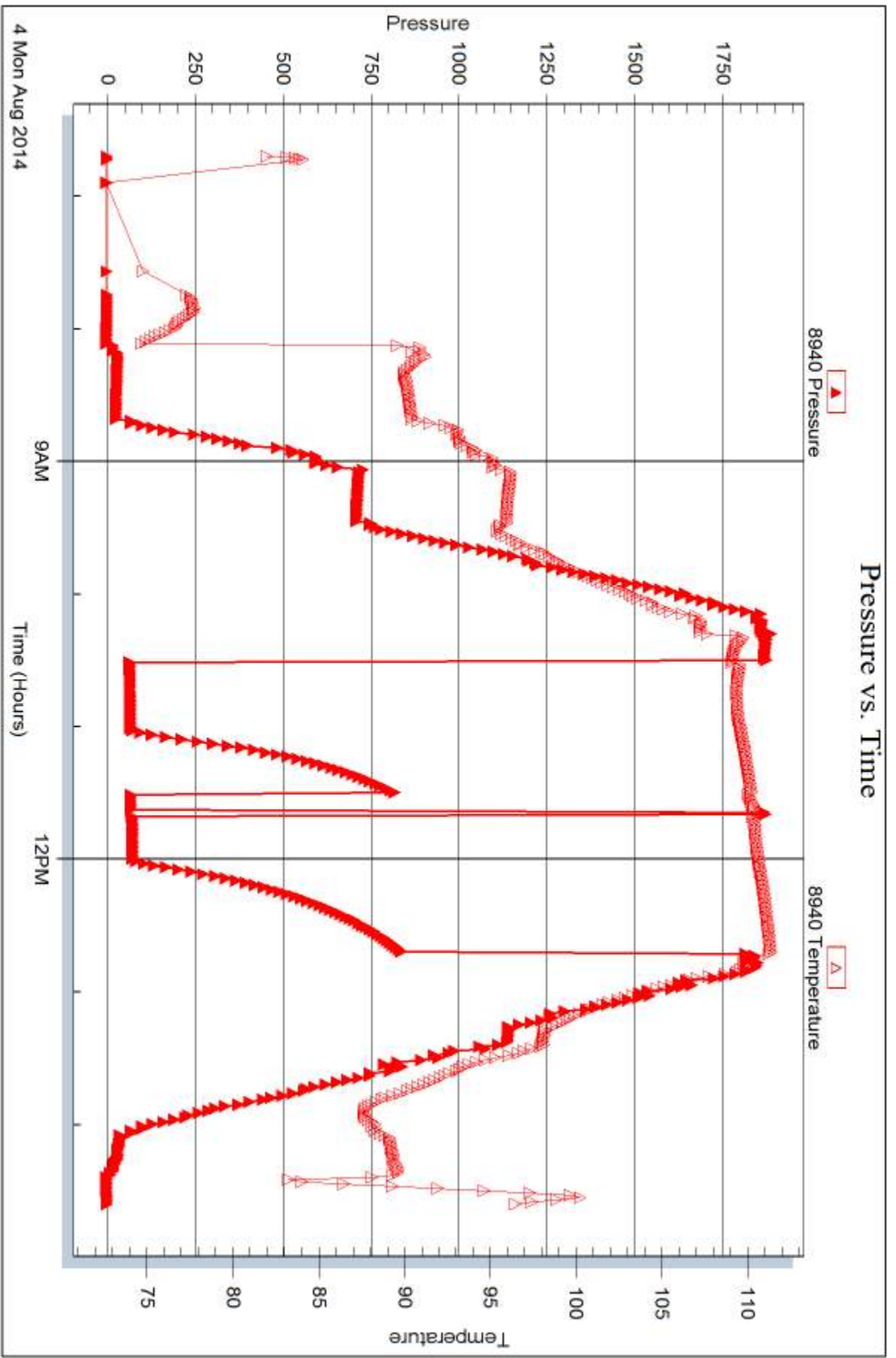


Serial #: 8940

Outside H & C Oil Operating Inc

Rice-Davis #6-1

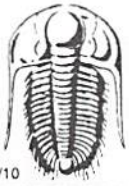
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59329

Printed: 2014.08.06 @ 15:15:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59328

Well Name & No. Rice-Davis Unit 6-1 Test No. 1 Date 8-2-14
 Company H&C Oil Operating Inc Elevation 2362 KB 2357 GL
 Address Po Box 86, Plainville KS, 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 6 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3675-3717 Zone Tested LKC "C-D"
 Anchor Length 42' Drill Pipe Run 3656 Mud Wt. 8.9
 Top Packer Depth 3670 Drill Collars Run 30' Vis 48
 Bottom Packer Depth 3675 Wt. Pipe Run — WL 7.2
 Total Depth 3717 Chlorides 1200 ppm System LCM 2
 Blow Description IF- 1/2" blow, died back to 1/4" = 15' Fill
ISI - No return
FF - No blow for 10 minutes, flushed tool, surged & died
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
1860	Mud			100	

Rec Total 1860' BHT 106° Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1777 Test 950 T-On Location 2240
 (B) First Initial Flow 877 Jars — T-Started 2336
 (C) First Final Flow 864 Safety Joint — T-Open 0715
 (D) Initial Shut-In 876 Circ Sub — T-Pulled 0915
 (E) Second Initial Flow 874 Hourly Standby 3.25h 325 ? T-Out 1143
 (F) Second Final Flow 871 Mileage 114RT 176.70
 (G) Final Shut-In 844 Sampler —
 (H) Final Hydrostatic 1765 Straddle —
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 30 Shale Packer —
 Initial Shut-In 30 Extra Packer —
 Final Flow 30 Extra Recorder — Sub Total 0
 Final Shut-In 30 Day Standby — Total —
 Accessibility — MP/DST Disc't —
 Sub Total —

Approved By _____ Our Representative Cody Blair

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personell 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. 59329

Well Name & No. Rice - Davis Unit 6-1 Test No. 2 Date 8-4-14
 Company H&C Oil Operating Inc Elevation 2362 KB 2357 GL
 Address Po Box 86, Plainville KS, 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 6 Twp. 9S Rge. 22W Co. Graham State KS

Interval Tested 3767-3850 Zone Tested LKC "H-K"
 Anchor Length 8.3' Drill Pipe Run 3725' Mud Wt. 9.0
 Top Packer Depth 3762 Drill Collars Run 30' Vis 51
 Bottom Packer Depth 3767 Wt. Pipe Run - WL 6.0
 Total Depth 3850 Chlorides 1200 ppm System LCM 1

Blow Description IF- 3/4" blow, died back to 1/2" 8' of Fill
ISI - No return
FF - No blow for 10 minutes, flushed tool. surged & died
FBI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud - oil spots</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 20' BHT 110° Gravity - API RW - @ - F Chlorides - ppm
 (A) Initial Hydrostatic 1883 Test 1150 T-On Location 0625
 (B) First Initial Flow 63 Jars - T-Started 0642
 (C) First Final Flow 66 Safety Joint - T-Open 1030
 (D) Initial Shut-In 818 Circ Sub - T-Pulled 1230
 (E) Second Initial Flow 65 Hourly Standby - T-Out 1436
 (F) Second Final Flow 72 Mileage 114RT 176.70
 (G) Final Shut-In 838 Sampler -
 (H) Final Hydrostatic 1810 Straddle -

Initial Open 30 Shale Packer -
 Initial Shut-In 30 Shale Packer -
 Final Flow 30 Extra Packer -
 Final Shut-In 30 Extra Recorder -
 Day Standby - Sub Total 0
 Accessibility - Total 1326.70
 Sub Total 1326.70 MP/DST Disc't -

Approved By _____ Our Representative Cody Bloodorn

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 2367		
Lease Rice-Davis Unit No. 6-1		KB 2367 DF GL 2360		
API # 15-065-24040-0000		Casing Record Surface		
Field Wildcat		8 5/8" @ 223' Production		
Location 1980' FSL & 1320' FWL		None		
Sec. 6 Twp. 9s Rgc. 22w		Electrical Surveys		
County Graham State Kansas		CNL/CDL, DIL, MEL, Sonic		
Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1962	1962	+405	+7
Base Anhydrite	1999	1994	+373	+9
Topeka	3406	3402	-1035	NA
Heebner	3619	3616	-1249	-1
Toronto	3640	3638	-1271	-1
LKC	3654	3649	-1282	+2
BKC	3871	3865	-1318	NA
Marmaton	3948	NA	-1581	NA
Arbuckle	4034	NA	-1667	NA
Total Depth	4067	3918	-1700	
Reference Well For Structural Comparison John O. Farmer, Inc. SE SE NW		Sec. 6-9s-22w		

Drilling Contractor	American Eagle, Rig #3	
Commenced	7-30-14	Completed 8-6-14
Samples Saved From	3550	To RTD
Drilling Time Kept From	3300	To RTD
Samples Examined From	3550	To RTD
Geological Supervision From	3300	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

