Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1216383

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 # 8914
Name: H & C Oil Operating Inc.
Address 1: PO BOX 86
Address 2:
City: PLAINVILLE State: KS Zip: 67663 + 0086
Contact Person: Charles Ramsay
Phone: (785) 434-7434
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Austin Klaus
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 #:

07/11/2014	07/17/2014	07/17/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-065-24050-00-00
Spot Description:
_ SW SW NE Sec. 11 Twp. 6 S. R. 24 ☐ East ☑ West
2310 Feet from ☑ North / ☐ South Line of Section
2310 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Graham
Lease Name: Beckman Well #: 11-1
Field Name:
Producing Formation: none
Elevation: Ground: 2460 Kelly Bushing: 2468
Total Vertical Depth: 3895 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 253 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: 49000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated

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: 08/05/2014
☑ **Confidential Release Date:** 08/04/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 08/05/2014

[redacted] 1216383

Operator Name: H & C Oil Operating Inc. Lease Name: Beckman Well #: 11-1

Sec. 11 Twp. 6 S. R. 24 ☐ East ☑ West County: Graham

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Microresistivity log
Dual compensated porosity log
Dual induction log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	2102	+366
Topeka	3427	-959
Heebner	3626	-1158
Toronto	3649	-1181
Lansing	3666	-1198
BKC	3850	-1382

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
surface	12.25	8.625	23	263	common	170	2%gel, 3% cc

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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Beckman 11-1
Doc ID	1216383

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	263	common	170	2%gel, 3% cc

AUSTIN B. KLAUS

Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	**Beckman #11-1**		
Location:	**Graham County**		
License Number:	**API #15-065-24050-00-00**	**Region:**	**Kansas**
Spud Date:	**7/10/14**	**Drilling Completed:**	**7/17/14**
Surface Coordinates:	**Section 11 - Township 11 South - Range 24 West** **2,310' FNL & 2,310' FEL**		
Bottom Hole Coordinates:	**Vertical well with minimal deviation, same as above**		
Ground Elevation (ft):	**2,460'**	**K.B. Elevation (ft):**	**2,468'**
Logged Interval (ft):	**3,400 To: RTD**	**Total Depth (ft):**	**3,895'**
Formation:	**LKc**		
Type of Drilling Fluid:	**Chemical (Andy's)**		

OPERATOR

Company: H&C Oil Operating, Inc.
Address: P.O. Box 86
Plainville, KS 67663

GEOLOGIST

Name: Austin Klaus
Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665

Comments

The Beckman #11-1 well was drilled by Discovery Drilling Rig #1 (Tool Pusher: Cliff Mayfield).

The location for the Beckman #11-1 was found via 3D seismic survey. Geologic samples were collected and examined from 3,400'-RTD. Shows were encountered in the Lansing C, E, H, & J zones. Structurally, the Beckman #11-1 well ran 1' high to the comparison well (Simmonds #1). Upon encountering shows in the C zone a bottom hole test was conducted yielding negative results. Additionally, two other bottom hole tests were conducted, covering the E-F and H-J zones respectively, each of these tests yielded negative results. After all sample, log, and drill stem test data was collected and evaluated it was recommended that H&C Oil Operating, Inc. plug and abandon the Beckman #11-1 well on 7/17/14.

ROCK TYPES

Anhy, Bent, Brec, Cht, Clyst, Coal, Congl, Dol, Gyp, Igne, Lmst, Meta, Mrlst, Salt, Shale, Shcol, Shgy, Sltst, Ss, Till

OTHER SYMBOLS

POROSITY: Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

SORTING: Well, Moderate, Poor

ROUNDING: Rounded, Subrnd, Subang, Angular

OIL SHOW: Even

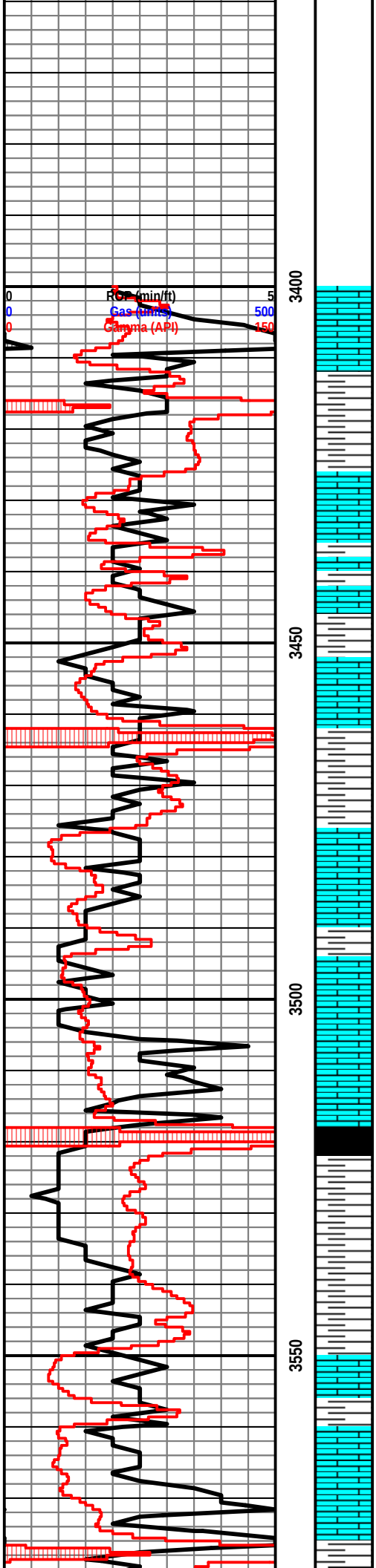
Spotted, Ques, Dead

INTERVAL: Core, Dst

EVENT: Rft, Sidewall

Curve Track 1 (ROP (min/ft), Gas (units), Gamma (API))	Depth	Lithology	Oil Shows	Geological Descriptions	DST/Mud/Survey
0 ROP (min/ft) 5; 0 Gas (units) 500; 0 Gamma (API) 150 7/11/14 @ 5:30pm Plug Down 7/12/14 @ 7:00am Drlg, 806' 7/13/14 @ 7:00am Drlg, 2,490' 7/14/14 @ 7:00am Drlg, 3,265' 7/15/14 @ 7:00am DST #1 7/16/14 @ 7:00am Drlg, 3,736' 7/17/14 @ 7:00am Logging	3300 3350			**The open-hole logging was performed by Mr. Y. Ruiz with Pioneer Wireline, LLC (Hays, KS). Logs included: Compensated Density/Compensated Neutron, Dual Induction, and Micro Resistivity.** **Formation tops and datums from the open-hole logs include the following:**	Mud Engineer: Aaron Blew Tester: Jim Svaty

Formation	E-Log	Datum
Anhydrite	2102	366
Topeka	3427	-959
Heebner	3626	-1158
Toronto	3649	-1181
Lansing	3666	-1198
B/KC	3850	-1382
LTD	3901	-1433



Ls: off wh, fn-md xln, mostly DNS

Wt: 8.8
Vis: 73

Sh: gry

Topeka 3424' (-956)

Ls: off wh-tan, fn-md xln, scat fossil, sl chalky

Ls: ala

Ls: off wh-lt gry, fossil, scat int xln porosity, NSFO

Ls: tan-lt gry, fn-md xln, fossil, fair int xln porosity, scat oil st, NSFO

Sh: lt gry-drk gry

Ls: ala, mostly DNS

Ls: off wh-lt gry, fn xln, scat fossil, chert-off wh-tan, NSFO

Sh: drk gry-brn, scat ls

Ls: tan-lt gry, fn-md xln, scat int xln porosity, scat chalky

Sh: blk, carb

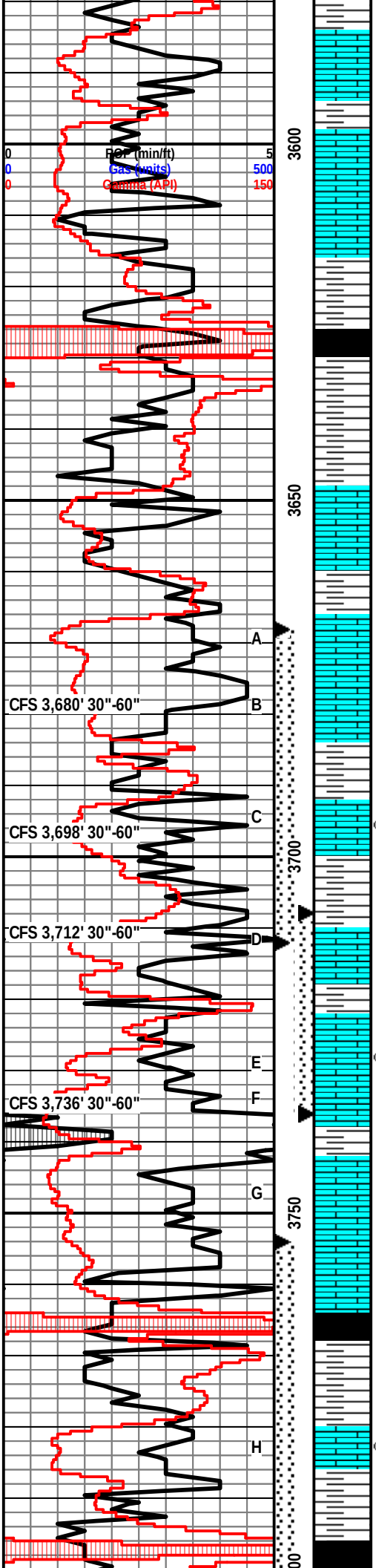
Sh: ala

Ls: off wh-tan, fossil, scat vuggy porosity, scat chalk, NSFO

Sh: drk gry-blk

Ls: off wh, fossil, scat vuggy porosity, chalky, chert-off wh-brn

Sh: blk, carb



Ls: tan-lt gry, md xln, fossil, fair vuggy porosity, chalky, NSFO

Ls: tan-lt gry, fn-md xln, fossil, poor vuggy porosity, chalky, NSFO

Ls: ala

Wt: 9.0
Vis: 63

Heebner 3621' (-1153)

Sh: blk, carb, fissile

Sh: drk gry-brn

Toronto 3646' (-1178)

Ls: off wh, fn-md xln, poor-fair int xln porosity, scat oil st, chalky, scat chert-off wh, NSFO, no odor

Sh: gry

Lansing 3662' (-1194)

Ls: off wh-tan, fn-md xln, scat pp vuggy porosity, NSFO, no odor

Ls: off wh, fn-md xln, poor vuggy porosity, NSFO

Sh: gry-brn

Ls: off wh, fn-md xln, fossil, fair vuggy porosity, fair-good sat, fair show hvy oil, fair odor, hvy chert-off wh

Sh: drk gry-blk

Ls: off wh-tan, fn-md xln, mostly DNS, NSFO, no odor

Sh: drk gry

Ls: off wh, fn-md xln, fossil, fair vuggy porosity, SSFO, fair sat, scat chalk, fair odor

Ls: off wh, fn xln, poor int xln porosity, mostly barren, NSFO, no odor,

Sh: gry

Ls: tan-lt gry, fn xln, mostly DNS, NSFO

Ls: off wh-tan, fn-vry fn xln, mostly DNS, no visible porosity, NSFO

Sh: blk, carb

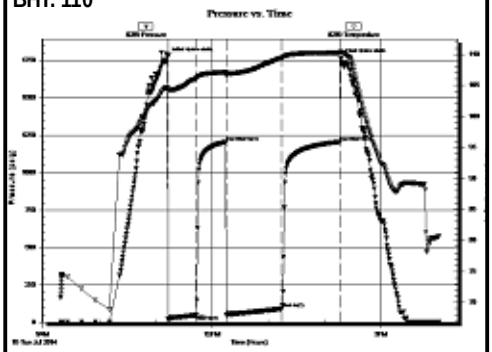
Sh: drk gry-drk brn

Ls: off wh-tan, fn-md xln, fossil, poor int xln porosity, scat fair oil st, SSFO, sl odor

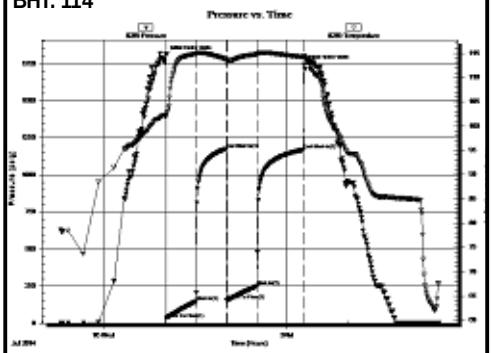
Sh: lt gry-brn

Sh: drk gry-blk

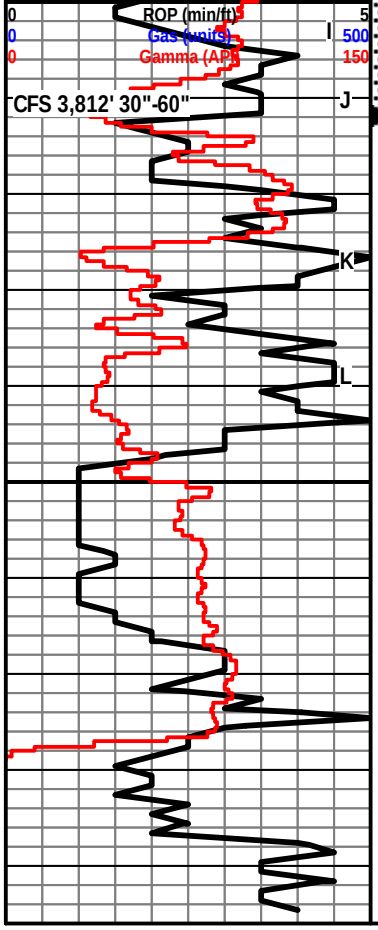
DST #1 3,668'-3,712' (Lansing C&D)
30"-30"-60"-60"
IF: Surface blow, built to 5.5", no blow back
FF: Surface blow, built to 8", no blow back
Rec: 155' MCW (40%M, 60%W)
FP: 19-49, 50-91#
SIP:1,205-1,206#
HP: 1,774-1,764#
BHT: 110

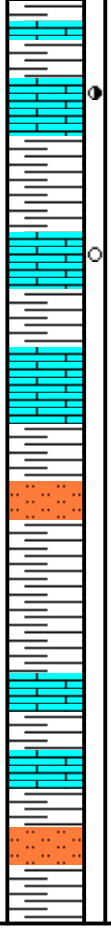


DST #2 3,708-3,736' (Lansing E&F)
30"-30"-30"-45"
IF: BOB in 9 minutes, no blow back
FF: BOB in 12 minutes, no blow back
Rec: 505' MCW (5%M, 95%W)
FP: 29-147, 157-251#
SIP: 1,174-1,170#
HP: 1,808-1,744#
BHT: 114



DST #3 ,764-3,812' (Lansing H-J)
30"-30"-30"-30"
IF: Surface blow, built to 3/4", died back in 15 minutes, no blow back
FF: Good surge on open, surface blow died in 15 minutes, no blow back
Rec: 3' Oil Speck Mud
FP: 20-26, 28-32#
SIP: 1,140-1,100#
HP: 1,854-1,753#





Ls: off wh-tan, fn-md xln, fossil, poor pp vuggy porosity, fair oil sat, scat SFO, fair odor

Sh: drk gry

Ls: off wh, ool, scat fossil, poor vuggy porosity, fair oil sat, VSSFO, sl-fair odor, scat chalky

Sh: drk gry

Ls: off wh-tan, fn xln, vry DNS, no visible porosity, NSFO

B/KC 3844' (-1376)

Sh: drk brn-drk rd-gry

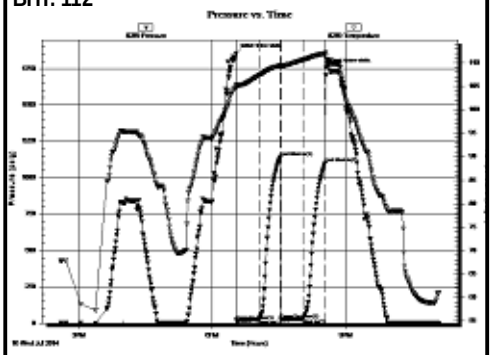
Sh: ala

Ls: off wh-tan, fn-md xln, mtld, scat chert-off wh-tan

Ls: ala

Sh: drk gry-drk rd-brn

BHT: 112



Wt: 9.0
Vis: 60

Respectfully Submitted,

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

Beckman #11-1

11 6s 24w Graham,KS

Start Date: 2014.07.15 @ 09:19:00
End Date: 2014.07.15 @ 16:01:00
Job Ticket #: 59270 DST #: 1

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

Printed: 2014.07.17 @ 16:16:47

DRILL STEM TEST REPORT

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59270 **DST#: 1**

Test Start: 2014.07.15 @ 09:19:00

GENERAL INFORMATION:

Formation: **LKC " C & D "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:13:00
Time Test Ended: 16:01:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 76

Interval: 3668.00 ft (KB) To 3712.00 ft (KB) (TVD)
Total Depth: 3712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

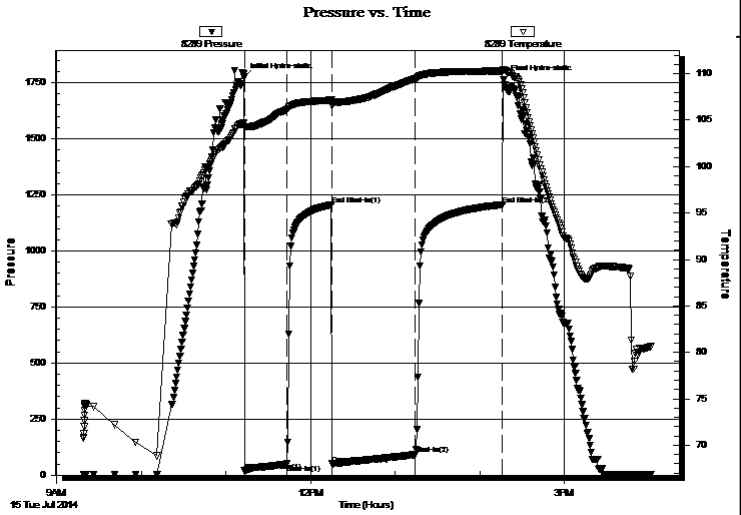
Reference Elevations: 2467.00 ft (KB)
2460.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8289 **Outside**

Press@RunDepth: 91.12 psig @ 3677.00 ft (KB)
Start Date: 2014.07.15 End Date: 2014.07.15
Start Time: 09:19:02 End Time: 16:01:00

Capacity: 8000.00 psig
Last Calib.: 2014.07.15
Time On Btm: 2014.07.15 @ 11:12:45
Time Off Btm: 2014.07.15 @ 14:16:45

TEST COMMENT: 30-IFP- Surface Blow Building to 5 1/2"
30-ISIP- No Blow
60-FFP- Surface Blow Building to 8"
60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.10	104.72	Initial Hydro-static
1	18.87	104.20	Open To Flow (1)
30	48.80	106.10	Shut-In(1)
62	1205.73	107.16	End Shut-In(1)
63	50.52	106.52	Open To Flow (2)
122	91.12	109.43	Shut-In(2)
184	1205.99	110.28	End Shut-In(2)
184	1764.13	110.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	MCW 40%m 60%w	1.91

Gas Rates

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

DRILL STEM TEST REPORT

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59270 **DST#: 1**

Test Start: 2014.07.15 @ 09:19:00

GENERAL INFORMATION:

Formation: **LKC " C & D "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:13:00
Time Test Ended: 16:01:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 76

Interval: 3668.00 ft (KB) To 3712.00 ft (KB) (TVD)
Total Depth: 3712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

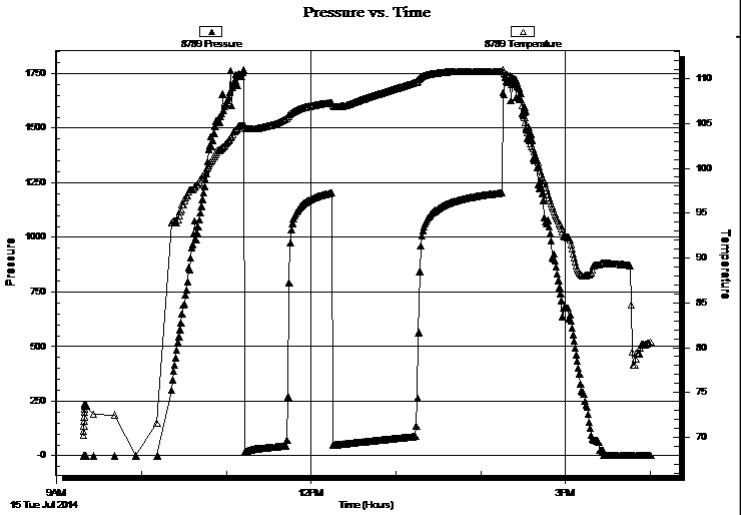
Reference Elevations: 2467.00 ft (KB)
2460.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8789 **Inside**

Press@RunDepth: psig @ 3677.00 ft (KB)
Start Date: 2014.07.15 End Date: 2014.07.15
Start Time: 09:19:02 End Time: 16:00:45

Capacity: 8000.00 psig
Last Calib.: 2014.07.15
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Building to 5 1/2"
30-ISIP- No Blow
60-FFP- Surface Blow Building to 8"
60-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
155.00	MCW 40%m 60%w	1.91

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59270 **DST#: 1**

Test Start: 2014.07.15 @ 09:19:00

Tool Information

Drill Pipe:	Length:	3628.00 ft	Diameter:	3.80 inches	Volume:	50.89 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	29.00 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	Weight to Pull Loose:		55000.00 lb
					Total Volume:	51.03 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	51000.00 lb
Depth to Top Packer:		3668.00 ft						Final	52000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		44.00 ft							
Tool Length:		65.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3648.00		
Shut In Tool	5.00			3653.00		
Hydraulic tool	5.00			3658.00		
Packer	5.00			3663.00	21.00	Bottom Of Top Packer
Packer	5.00			3668.00		
Stubb	1.00			3669.00		
Perforations	7.00			3676.00		
Change Over Sub	1.00			3677.00		
Recorder	0.00	8789	Inside	3677.00		
Recorder	0.00	8289	Outside	3677.00		
Blank Spacing	31.00			3708.00		
Change Over Sub	1.00			3709.00		
Bullnose	3.00			3712.00	44.00	Bottom Packers & Anchor
Total Tool Length:	**65.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59270 **DST#: 1**

Test Start: 2014.07.15 @ 09:19:00

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:	25000 ppm
Viscosity:	63.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	500.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

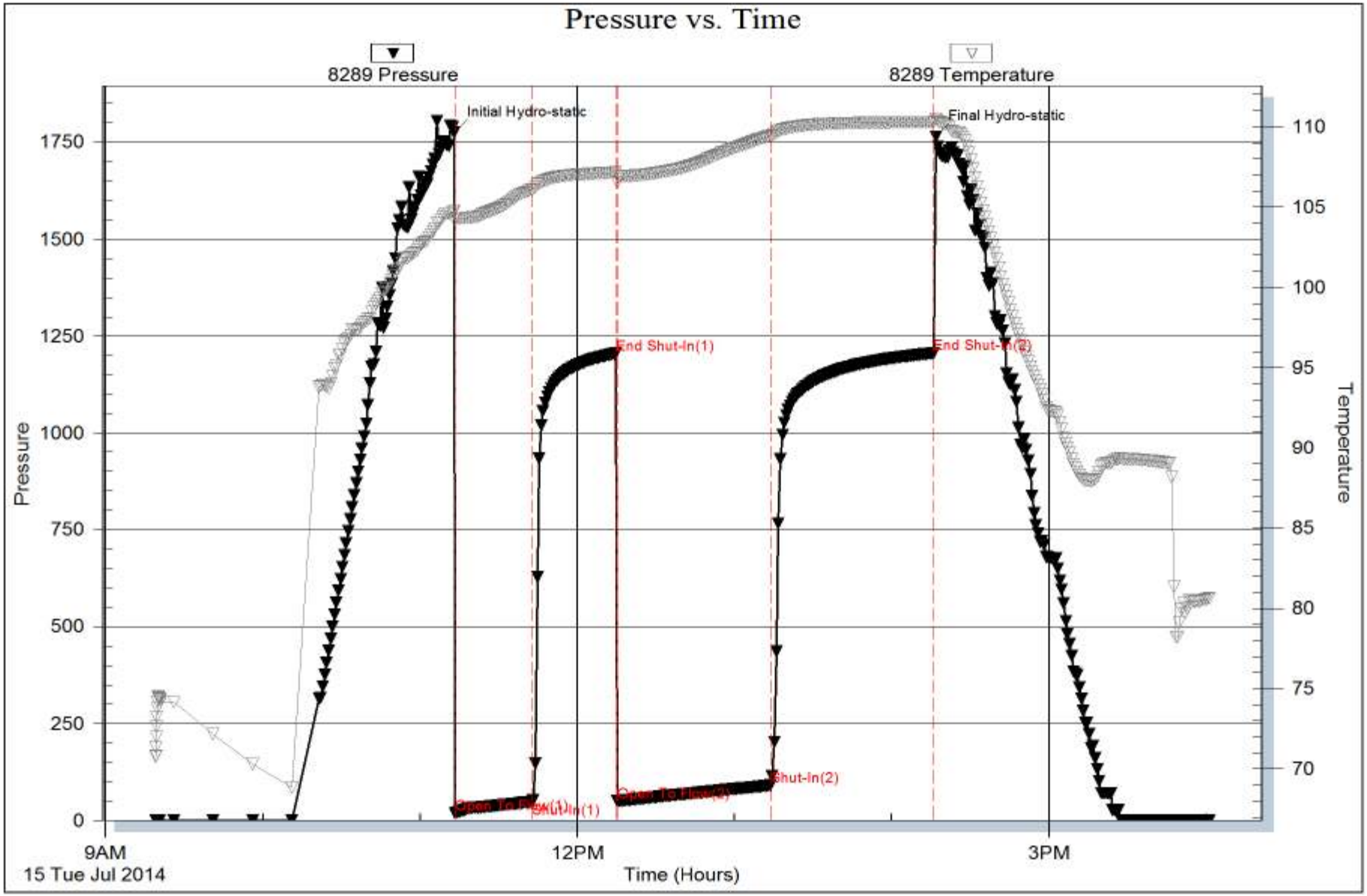
Recovery Table

Length ft	Description	Volume bbl
155.00	MCW 40%m 60%w	1.910

Total Length: 155.00 ft Total Volume: 1.910 bbl

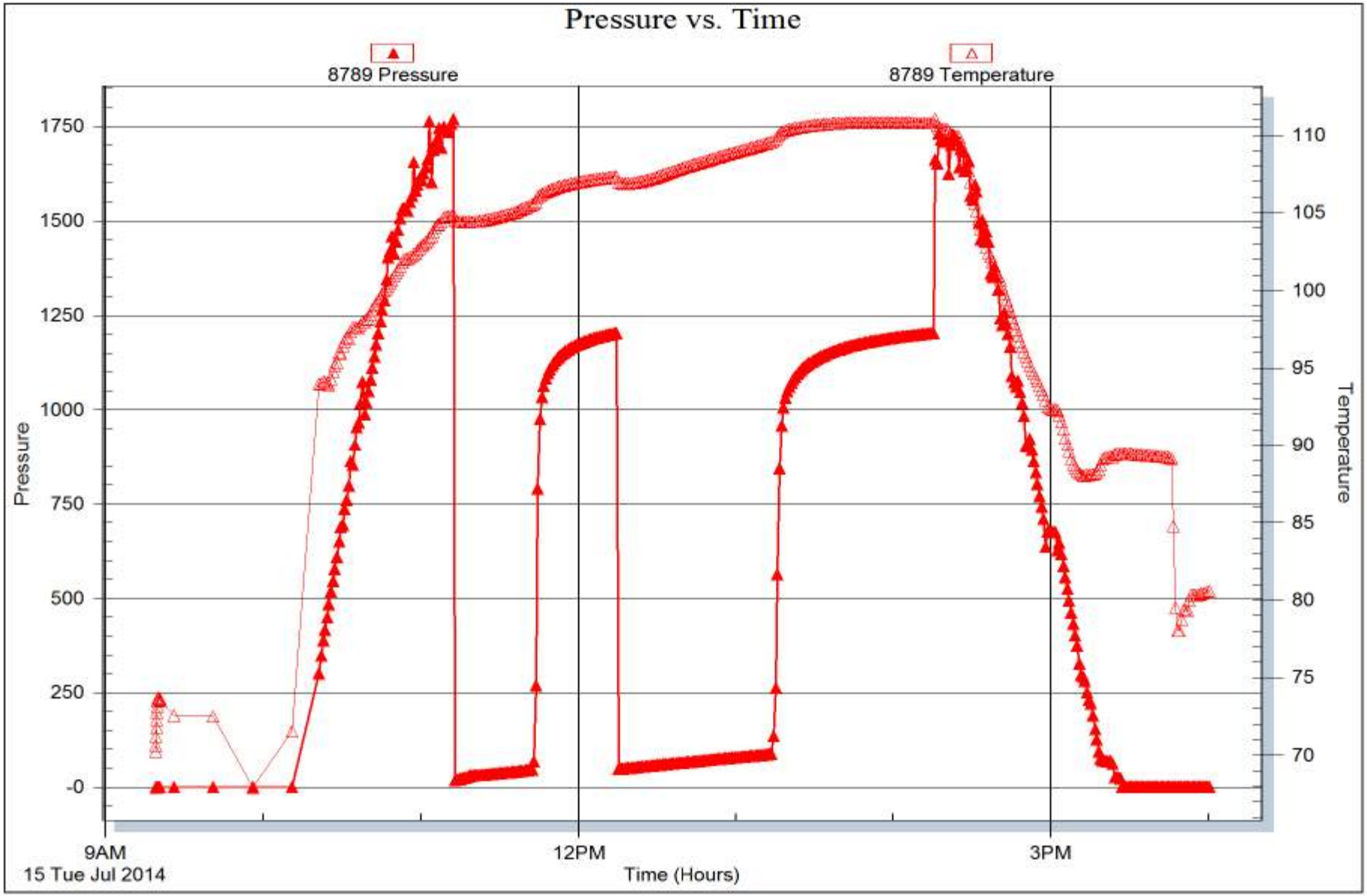
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .220 @ 86

Serial #: 8289 **Outside** H & C Oil Operating Inc Beckman #11-1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 59270 Printed: 2014.07.17 @ 16:16:48

Serial #: 8789 **Inside** H & C Oil Operating Inc Beckman #11-1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 59270 Printed: 2014.07.17 @ 16:16:48

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

Beckman #11-1

11 6s 24w Graham,KS

Start Date: 2014.07.15 @ 23:18:00
End Date: 2014.07.16 @ 05:29:00
Job Ticket #: 59271 DST #: 2

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

Printed: 2014.07.17 @ 16:15:18

DRILL STEM TEST REPORT

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59271 **DST#: 2**

Test Start: 2014.07.15 @ 23:18:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:01:30
Time Test Ended: 05:29:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76

Interval: 3708.00 ft (KB) To 3736.00 ft (KB) (TVD)
Total Depth: 3736.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

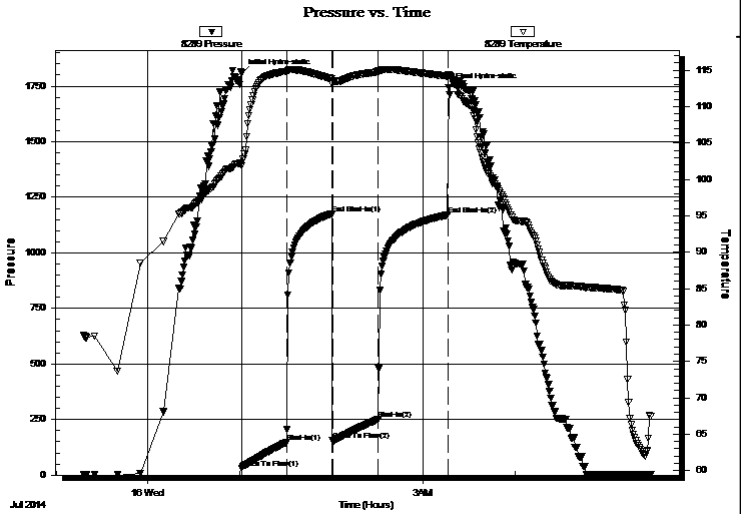
Reference Elevations: 2467.00 ft (KB)
2460.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8289 **Outside**

Press@RunDepth: 251.27 psig @ 3716.00 ft (KB)
Start Date: 2014.07.15 End Date: 2014.07.16
Start Time: 23:18:02 End Time: 05:29:00

Capacity: 8000.00 psig
Last Calib.: 2014.07.16
Time On Btm: 2014.07.16 @ 01:01:15
Time Off Btm: 2014.07.16 @ 03:16:30

TEST COMMENT: 30-IFP- BOB in 9 min.
30-ISIP- No Blow
30-FFP- BOB in 12 min.
45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1808.85	102.30	Initial Hydro-static
1	28.98	101.85	Open To Flow (1)
30	146.92	114.81	Shut-In(1)
59	1173.68	113.81	End Shut-In(1)
60	157.14	113.13	Open To Flow (2)
90	251.27	114.74	Shut-In(2)
135	1170.62	114.17	End Shut-In(2)
136	1743.84	114.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
505.00	MCW 5%m 95%w	6.82

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59271 **DST#: 2**

Test Start: 2014.07.15 @ 23:18:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:01:30
Time Test Ended: 05:29:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76

Interval: 3708.00 ft (KB) To 3736.00 ft (KB) (TVD)
Total Depth: 3736.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

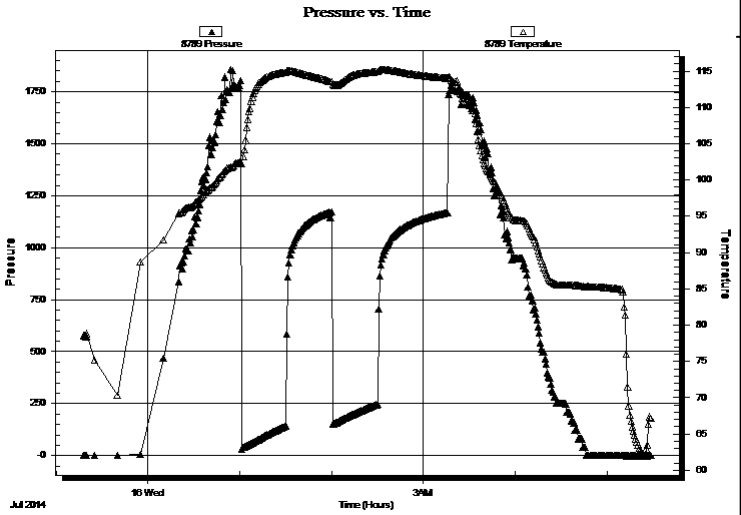
Reference Elevations: 2467.00 ft (KB)
2460.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8789 **Inside**

Press@RunDepth: psig @ 3716.00 ft (KB)
Start Date: 2014.07.15 End Date: 2014.07.16
Start Time: 23:18:02 End Time: 05:28:45

Capacity: 8000.00 psig
Last Calib.: 2014.07.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 9 min.
30-ISIP- No Blow
30-FFP- BOB in 12 min.
45-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
505.00	MCW 5%m 95%w	6.82

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59271 **DST#: 2**

Test Start: 2014.07.15 @ 23:18:00

Tool Information

Drill Pipe:	Length:	3690.00 ft	Diameter:	3.80 inches	Volume:	51.76 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	29.00 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	
					Total Volume:	51.90 bbl	

Drill Pipe Above KB:	32.00 ft
Depth to Top Packer:	3708.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	28.00 ft
Tool Length:	49.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		56000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	51000.00 lb
	Final	53000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3688.00		
Shut In Tool	5.00			3693.00		
Hydraulic tool	5.00			3698.00		
Packer	5.00			3703.00	21.00	Bottom Of Top Packer
Packer	5.00			3708.00		
Stubb	1.00			3709.00		
Perforations	7.00			3716.00		
Recorder	0.00	8789	Inside	3716.00		
Recorder	0.00	8289	Outside	3716.00		
Perforations	17.00			3733.00		
Bullnose	3.00			3736.00	28.00	Bottom Packers & Anchor
Total Tool Length:	**49.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59271 **DST#: 2**

Test Start: 2014.07.15 @ 23:18:00

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:	40000 ppm
Viscosity:	63.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	500.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

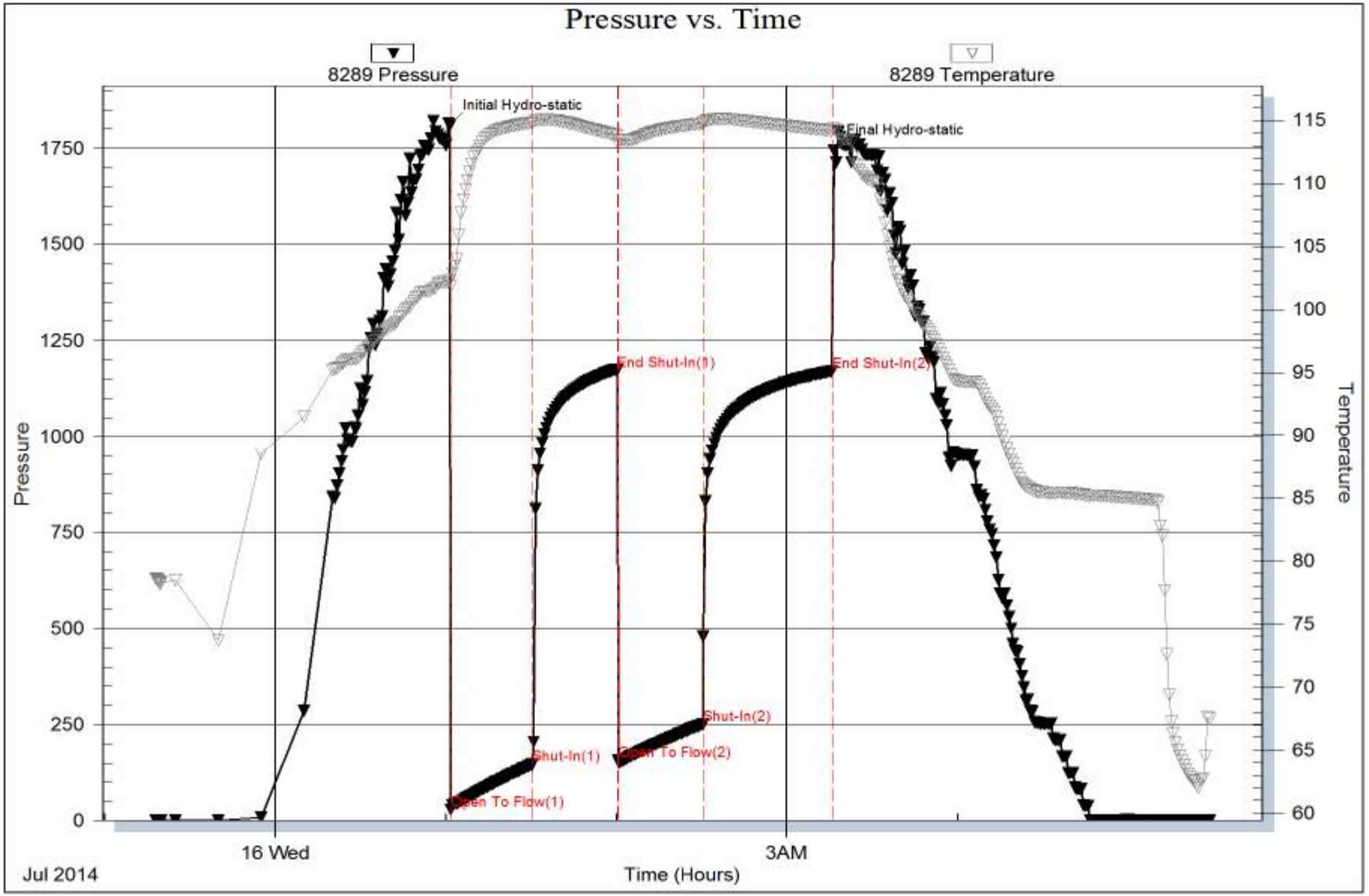
Recovery Table

Length ft	Description	Volume bbl
505.00	MCW 5%m 95%w	6.820

Total Length: 505.00 ft Total Volume: 6.820 bbl

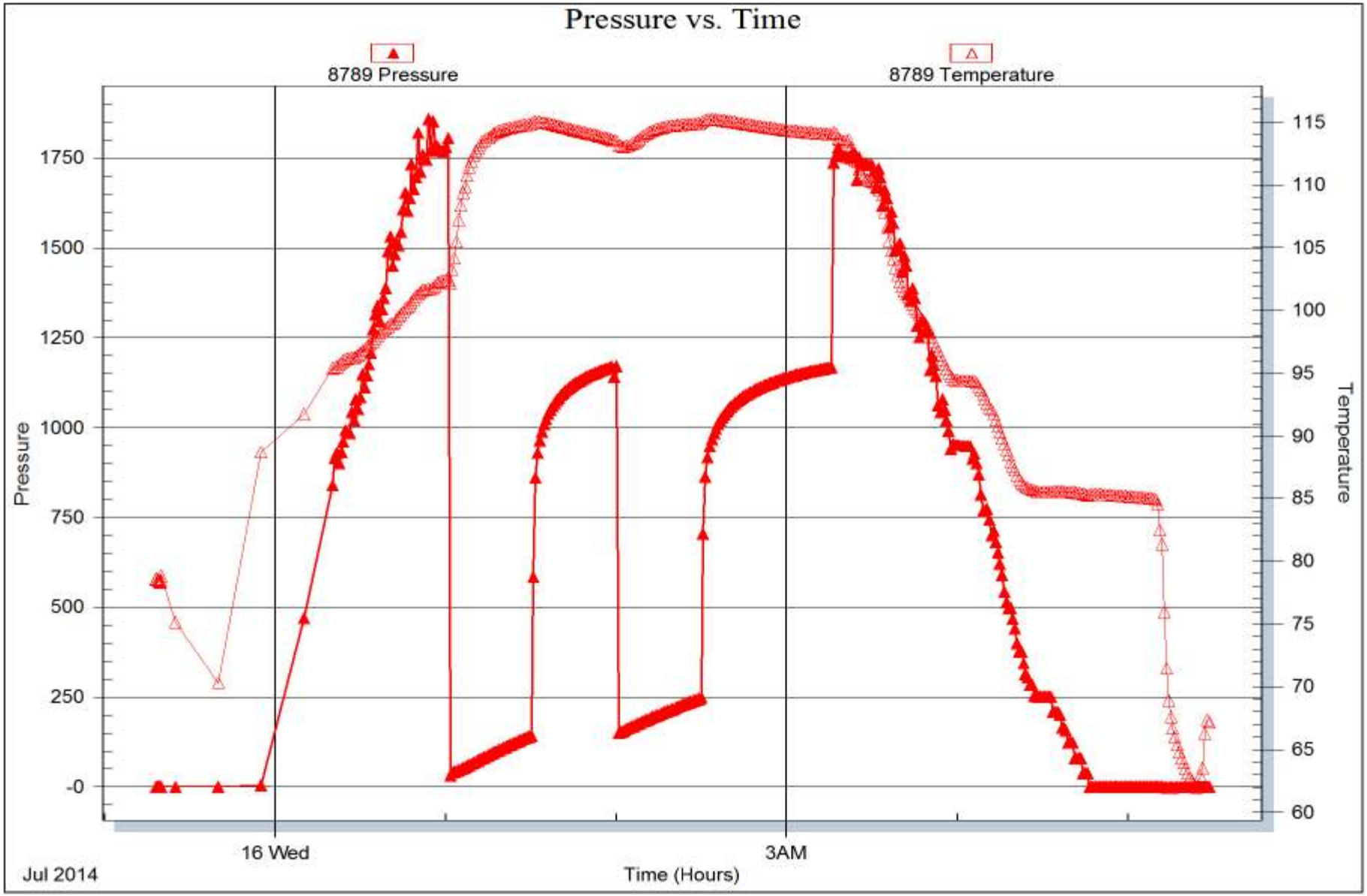
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .200 @ 64

Serial #: 8289 **Outside** H & C Oil Operating Inc Beckman #11-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 59271 Printed: 2014.07.17 @ 16:15:20

Serial #: 8789 **Inside** H & C Oil Operating Inc Beckman #11-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 59271 Printed: 2014.07.17 @ 16:15:21

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

Beckman #11-1

11 6s 24w Graham,KS

Start Date: 2014.07.16 @ 14:36:00
End Date: 2014.07.16 @ 23:06:00
Job Ticket #: 59272 DST #: 3

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

Printed: 2014.07.17 @ 16:15:01

DRILL STEM TEST REPORT

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59272 **DST#: 3**

Test Start: 2014.07.16 @ 14:36:00

GENERAL INFORMATION:

Formation: **LKC " H - J "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:32:30
Time Test Ended: 23:06:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76

Interval: 3764.00 ft (KB) To 3812.00 ft (KB) (TVD)
Total Depth: 3812.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

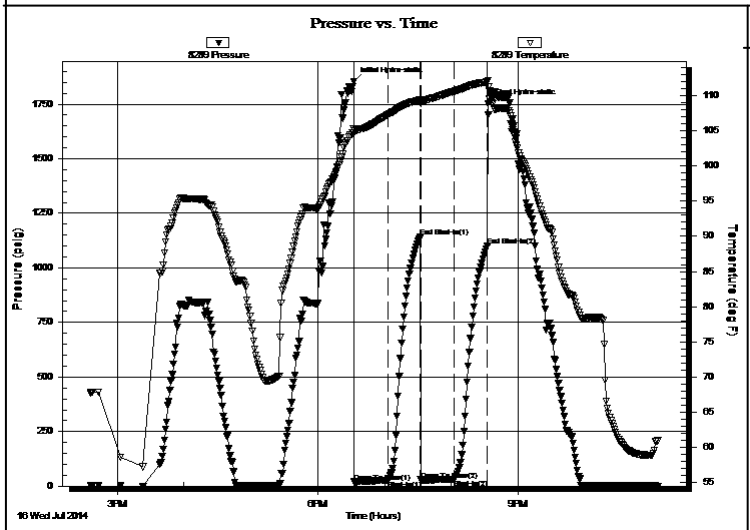
Reference Elevations: 2467.00 ft (KB)
2460.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8289 **Outside**

Press@RunDepth: 32.05 psig @ 3774.00 ft (KB)
Start Date: 2014.07.16 End Date: 2014.07.16
Start Time: 14:36:02 End Time: 23:05:45

Capacity: 8000.00 psig
Last Calib.: 2014.07.16
Time On Btm: 2014.07.16 @ 18:32:15
Time Off Btm: 2014.07.16 @ 20:33:00

TEST COMMENT: 30-IFP- Surface Blow Building to 3/4" In 9 min. Died Back in 15 min.
30-ISIP- No Blow
30-FFP- Good Surge on Open Weak Surface Blow Died in 15 min.
30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1854.48	105.25	Initial Hydro-static
1	19.55	104.67	Open To Flow (1)
31	25.93	107.27	Shut-In(1)
60	1140.10	109.40	End Shut-In(1)
60	28.36	108.97	Open To Flow (2)
90	32.05	110.62	Shut-In(2)
121	1100.73	111.95	End Shut-In(2)
121	1753.11	112.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Oil Speck Mud 100%	0.01

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59272 **DST#: 3**

Test Start: 2014.07.16 @ 14:36:00

GENERAL INFORMATION:

Formation: **LKC " H - J "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:32:30
Time Test Ended: 23:06:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76

Interval: 3764.00 ft (KB) To 3812.00 ft (KB) (TVD)
Total Depth: 3812.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

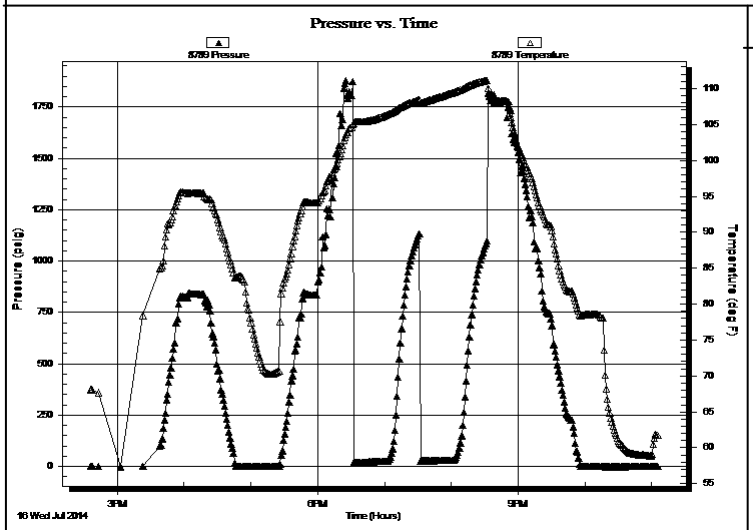
Reference Elevations: 2467.00 ft (KB)
2460.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8789 **Inside**

Press@RunDepth: psig @ 3774.00 ft (KB)
Start Date: 2014.07.16 End Date: 2014.07.16
Start Time: 14:36:02 End Time: 23:05:30

Capacity: 8000.00 psig
Last Calib.: 2014.07.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Building to 3/4" In 9 min. Died Back in 15 min.
30-ISIP- No Blow
30-FFP- Good Surge on Open Weak Surface Blow Died in 15 min.
30-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Oil Speck Mud 100%	0.01

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59272 **DST#: 3**

Test Start: 2014.07.16 @ 14:36:00

Tool Information

Drill Pipe:	Length:	3723.00 ft	Diameter:	3.80 inches	Volume:	52.22 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	29.00 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	Weight to Pull Loose:		53000.00 lb
					Total Volume:	52.36 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		9.00 ft					String Weight:	Initial	51000.00 lb
Depth to Top Packer:		3764.00 ft						Final	51000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		48.00 ft							
Tool Length:		69.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3744.00		
Shut In Tool	5.00			3749.00		
Hydraulic tool	5.00			3754.00		
Packer	5.00			3759.00	21.00	Bottom Of Top Packer
Packer	5.00			3764.00		
Stubb	1.00			3765.00		
Perforations	8.00			3773.00		
Change Over Sub	1.00			3774.00		
Recorder	0.00	8789	Inside	3774.00		
Recorder	0.00	8289	Outside	3774.00		
Blank Spacing	31.00			3805.00		
Change Over Sub	1.00			3806.00		
Perforations	3.00			3809.00		
Bullnose	3.00			3812.00	48.00	Bottom Packers & Anchor
Total Tool Length:	**69.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating Inc

PO Box 86
Plainville KS 67663-0086

ATTN: Austin Klaus

11 6s 24w Graham,KS

Beckman #11-1

Job Ticket: 59272 **DST#: 3**

Test Start: 2014.07.16 @ 14:36:00

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:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.77 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	500.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

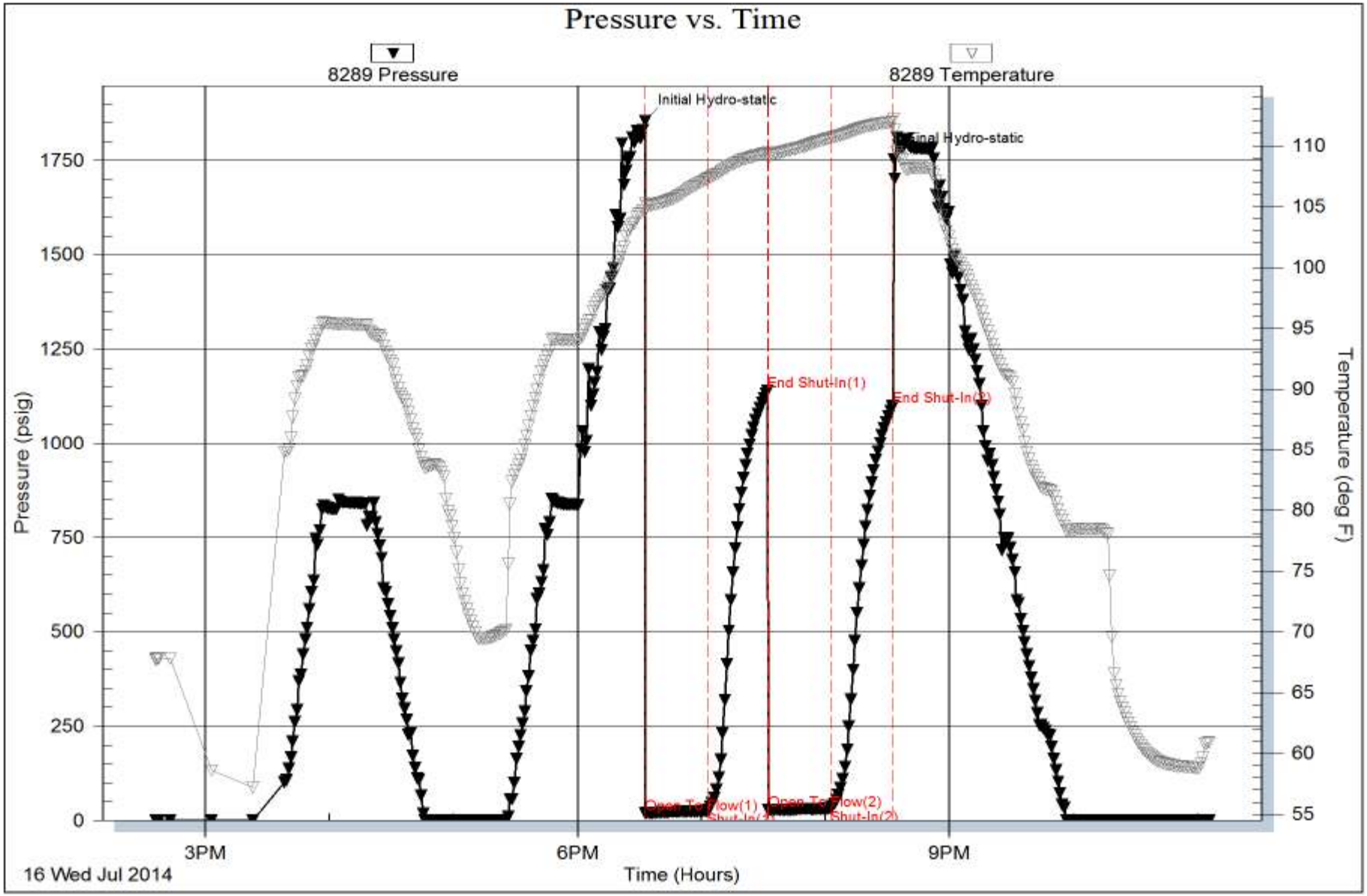
Recovery Table

Length ft	Description	Volume bbl
3.00	Oil Speck Mud 100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

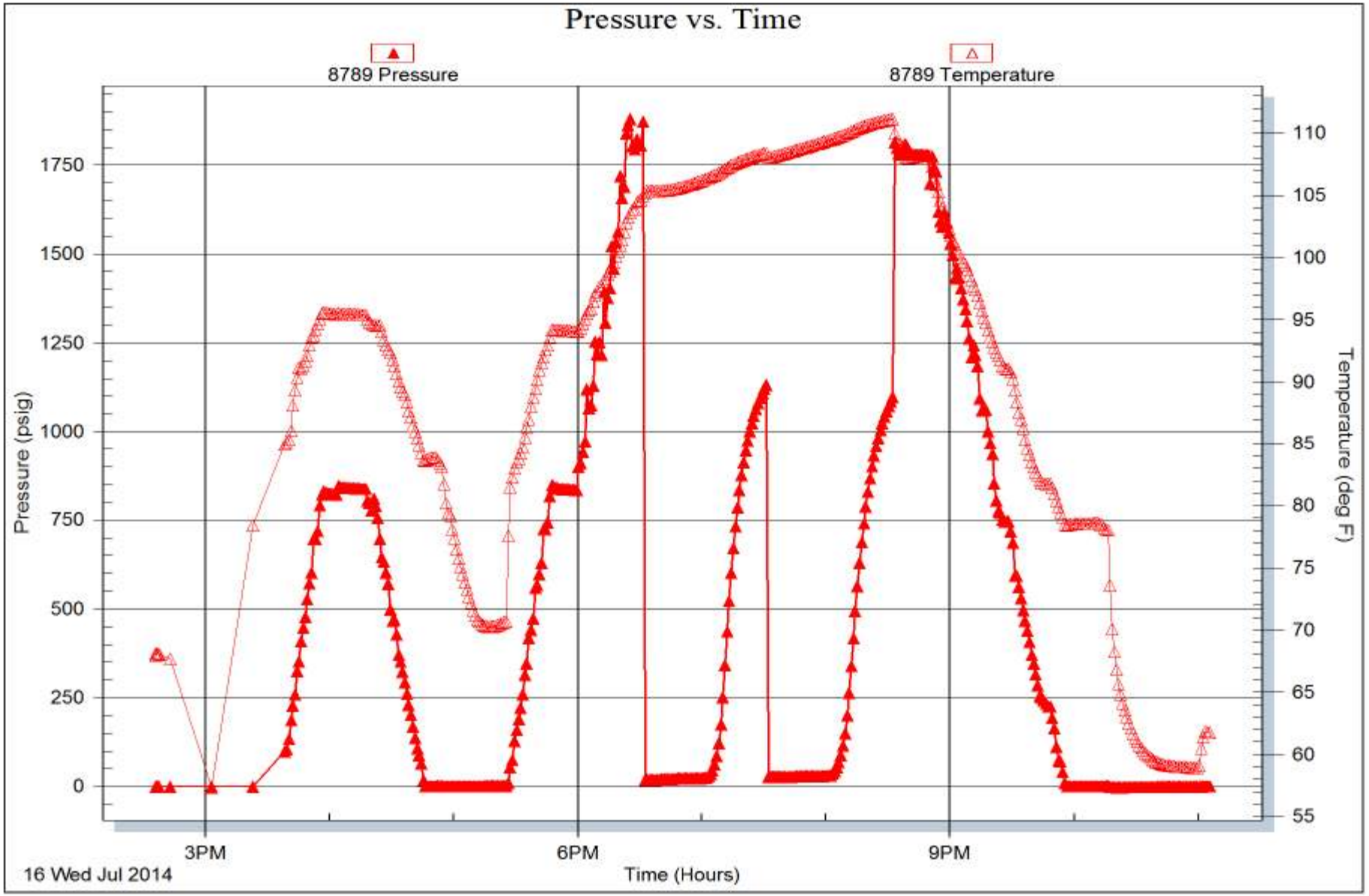
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8289 **Outside** H & C Oil Operating Inc Beckman #11-1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 59272 Printed: 2014.07.17 @ 16:15:02

Serial #: 8789 **Inside** H & C Oil Operating Inc Beckman #11-1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 59272 Printed: 2014.07.17 @ 16:15:02

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 59270

Well Name & No. Beckman 11-1 Test No. 1 Date 7-15-14

Company H & C Oil Operating Inc. Elevation 2467 KB 2460 GL

Address P.O. Box 86 Plainville KS 67663-0086

Co. Rep / Geo. Austin Klaus Rig Discovery #1

Location: Sec. 11 Twp. 6S Rge. 24W Co. Graham State KS

Interval Tested 3668-3712 Zone Tested LKC "C+D"

Anchor Length 44 Drill Pipe Run 3628 Mud Wt. 9

Top Packer Depth 3663 Drill Collars Run 29 Vis 63

Bottom Packer Depth 3668 Wt. Pipe Run — WL 8

Total Depth 3712 Chlorides 500 ppm System LCM 2

Blow Description IFP- Surface Blow Building to 5 1/2 in.
ISIP- No Blow
FFP- Surface Blow Building to 8 in.
FSIP- No Blow

Rec 155	Feet of MCW	%gas	%oil 60	%water 40	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of Show of Oil In Tool	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 155 BHT 110 Gravity — API RW .220 @ 86 °F Chlorides 25000 ppm

(A) Initial Hydrostatic 1774	☑ Test 1150	T-On Location 9:00
(B) First Initial Flow 18	☐ Jars	T-Started 9:19
(C) First Final Flow 48	☐ Safety Joint	T-Open 11:13
(D) Initial Shut-In 1205	☐ Circ Sub	T-Pulled 14 ~~00~~:15
(E) Second Initial Flow 50	☐ Hourly Standby	T-Out 16:01
(F) Second Final Flow 91	☒ Mileage 165 RT	Comments
(G) Final Shut-In 1205	☐ Sampler 100rt 155	
(H) Final Hydrostatic 1764	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 60	☐ Day Standby	Total 1305
Final Shut-In 60	☐ Accessibility	MP/DST Disc't
	Sub Total 1305	

Approved By — Our Representative

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 59271

Well Name & No. Beckman 11-1 Test No. 2 Date 7-15-14

Company H&C Oil Operating Inc Elevation 2468 KB 2460 GL

Address P.O. Box 86 Plainville KS 67663-0086

Co. Rep / Geo. Austin Klaus Rig Discovery #1

Location: Sec. 11 Twp. 6S Rge. 24W Co. Graham State KS

Interval Tested 3708-3736 Zone Tested LKC "E+F"

Anchor Length 28 Drill Pipe Run 3690 Mud Wt. 9

Top Packer Depth 3703 Drill Collars Run 29 Vis 63

Bottom Packer Depth 3708 Wt. Pipe Run 0 WL 8

Total Depth 3736 Chlorides 500 ppm System LCM 2

Blow Description IFP- BOB in 9min.
ISIP- No Blow
FFP- BOB in 12min.
FSIP- No Blow

Rec 505	Feet of mcw	%gas	%oil 95	%water 5	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 505 BHT 114 Gravity ____ API RW .200 @ 64 °F Chlorides 40000 ppm

(A) Initial Hydrostatic 1808	☒ Test 1150	T-On Location 22:30	
(B) First Initial Flow 28	☐ Jars	T-Started 23:18	
(C) First Final Flow 146	☐ Safety Joint	T-Open 01:01	
(D) Initial Shut-In 1173	☐ Circ Sub	T-Pulled 03:16	
(E) Second Initial Flow 157	☐ Hourly Standby	T-Out 05:29	
(F) Second Final Flow 251	☒ Mileage 155	Comments	
(G) Final Shut-In 1170	☐ Sampler		
(H) Final Hydrostatic 1743	☐ Straddle	☐ Ruined Shale Packer	
	☐ 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 1305	
Final Shut-In 45	☐ Accessibility	MP/DST Disc't	
	Sub Total 1305		

Approved By ____ Our Representative ____

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 59272

Well Name & No. Beckman 11-1 Test No. 3 Date 7-16-14

Company H4C Oil Operating Inc Elevation 2468 KB 2460 GL

Address P.O. Box 86 Plainville KS 67663-0086

Co. Rep / Geo. Austin Klaus Rig Discovery #1

Location: Sec. 11 Twp. 6S Rge. 24W Co. Graham State KS

Interval Tested 3764 - 3812 Zone Tested LKC - "H-J"

Anchor Length ~~48~~ 48 Drill Pipe Run 3723 Mud Wt. 9.1

Top Packer Depth 3759 Drill Collars Run 29 Vis 47

Bottom Packer Depth 3764 Wt. Pipe Run 0 WL 8.8

Total Depth 3812 Chlorides 500 ppm System LCM 2

Blow Description IFP - Surface Blow Building To 3/4 in. In 9 min Died Back 15 min.
ISIP - No Blow
FFP - Dead Surge on Open Weak Surface Blow Died in 15 min.
FSIP - No Blow

Rec 3	Feet of Oil Speck Mud	%gas	%oil	%water 100	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 112 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic	1854	☒ Test	1150	T-On Location	14:36
(B) First Initial Flow	19	☐ Jars		T-Started	14:36
(C) First Final Flow	25	☐ Safety Joint		T-Open	18:33
(D) Initial Shut-In	1140	☐ Circ Sub		T-Pulled	20:33
(E) Second Initial Flow	28	☐ Hourly Standby		T-Out	23:06
(F) Second Final Flow	32	☒ Mileage	155	Comments	
(G) Final Shut-In	1100	☐ Sampler			
(H) Final Hydrostatic	1753	☐ Straddle		☐ Ruined Shale Packer	
		☐ 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	1305
Final Shut-In	30	☐ Accessibility		MP/DST Disc't	
		Sub Total	1305		

Approved By ____ Our Representative ____

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. 359

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-17-14	11	6	24	Graham	KS		10:00pm

Location Hoxie 12W CA 1E 1/2W Into

Lease Beckman Well No. 11-1

Contractor D Sweet #1

Type Job Rotary Plug

Hole Size 7 7/8 T.D. 3895

Csg. 4 1/2 X-H Depth

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint

Meas Line Displace

EQUIPMENT

Pumptrk 20 No. Cementer Joe.G
Helper D

Bulktrk No. Driver Brent
Driver

Bulktrk 9 No. Driver R.Joel
Driver

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30SK

Mouse Hole 15SK

Centralizers

Baskets

D/V or Port Collar

1st 2125 50SK

2nd 1325 100SK

3rd 310 50SK

4th 40 10SK

Owner

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.

Charge To H & C

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 255 60/40 4% Gel 1/4# F-C

Common	153
Poz. Mix	102
Gel.	9
Calcium	
Hulls	
Salt	
Flowseal	50#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	264
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	8 5/8 Wooden Plug
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Plug
Mileage	50 41
Tax	
Discount	
Total Charge	

X Signature Cliff Mayfield

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. 314

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-11-14	11	6	24	Graham	KS	3:30PM	5:30 P.M.

Location Hill City N to CC RD W to

Lease L. Beckman Well No. 11-1

Owner 210 RD 1/2 N Veach to

Contractor Discovery 1

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 12¼ T.D. 264

Csg. 8 5/8 Depth 263.45

Charge To H-J-C

Tbg. Size Depth

Street

Tool Depth

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 20ft Shoe Joint 20ft

Cement Amount Ordered 170 3%CC 2% Gel

Meas Line Displace 15 BBL

EQUIPMENT

Pumptrk 20	No.	Cementer	Matt
		Helper	
Bulktrk 21	No.	Driver	Mick
		Driver	
Bulktrk 9	No.	Driver	Doug
		Driver	

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement did Circulate

Common	170
Poz. Mix	
Gel.	3
Calcium	6
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	179
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	50
Tax	
Discount	
Total Charge	

X Signature Cliff Mansfield