Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1132056

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 # 33493
Name: American Eagle Drilling LLC
Wellsite Geologist: Marc Downing
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 #:

02/04/2013 — Spud Date or Recompletion Date
02/12/2013 — Date Reached TD
02/12/2013 — Completion Date or Recompletion Date

API No. 15 - 15-065-23891-00-00
Spot Description:
SW NE NW SW Sec. 26 Twp. 8 S. R. 25 ☐ East ☑ West
2300 Feet from ☐ North / ☑ South Line of Section
700 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: David Trust Well #: 26-1
Field Name:
Producing Formation: Lansing Kansas City
Elevation: Ground: 2419 Kelly Bushing: 2424
Total Vertical Depth: 4010 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 4010
feet depth to: 0 w/ 570 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 41000 ppm Fluid volume: 160 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: 04/24/2013
☑ **Confidential Release Date:** 04/24/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 04/24/2013

1132056

Operator Name: H & C Oil Operating Inc. Lease Name: David Trust Well #: 26-1

Sec. 26 Twp. 8 S. R. 25 ☐ 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:

Attached

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

Name	Top	Datum
Top Anhydrite	2145	+279
Base Anhydrite	2177	+247
Topeka	3490	-1066
Heebner	3702	-1278
Toronto	3726	-1302
LKC	3742	-1318
BKC	3962	-1538

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	222	common	150	3%cc, 2% gel
production	7.875	5.5	14	3986	common	150	10% salt & 5% gilsonit
production	7.875	5.5	14	3986	QMDC	420	1/4# floseal

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
1	3913, 3895, 3871	750 gal 15% MCA	3913
	3850	CIBP	3850
4	3811 - 3816	1500 gal acid	3816
4	3773 - 3780	1750 gal acid	3780

TUBING RECORD: Size: 2.3750 Set At: 3845 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 4/20/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40		25		36

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:
3773 -3816

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	David Trust 26-1
Doc ID	1132056

All Electric Logs Run

Dual induction log
Dual compensated porosity log
Microresistivity log
Sonic cement bond log

Marc Downing
Consulting Petroleum Geologist
1411 Washington Circle
Hays, Ks 67601
Phone: 620-428-1356 (cell) 785-621-2286

GEOLOGIC REPORT LOG

COMPANY H+C Oil Operating, Inc.

8s 26w — 26

WELL David Trust #26-1
FIELD Wildcat
LOCATION 2300' FSL + 700' FWL
SEC. 26 TWP. 8s RGE. 26w
COUNTY Graham
STATE Kansas

PRODUCTION LKC

ELEVATION KB 2424
DF
GL 2419
Drilling Measured From: KB

Samples Saved From 3650 To: TD
Drilling Time From 3350 To: TD
Samples Examined From: 3650 To: TD
Geological Supervision From 3350 To Total Depth
Wellsite Geologist Marc Downing
Electrical Surveys Pioneer
CNL/CDL - DIL
MEL - Sonic

OPERATOR H+C Oil Operating, Inc.
CONTRACTOR American Eagle, Rig #3
COMM: 2-5-13 COMP: 2-11-13

CASING RECORD

SURF: 8⅝" @ 222 PROD: 5½" @ 4009'
TOTAL DEPTH DRILLERS: 4010'
TOTAL DEPTH LOG: 4012'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	2144	2145	+279	+7
Base Anhydrite	2175	2177	+247	NA
Topeka	3490	3490	-1066	NA
HEEBNER	3700	3702	-1278	FL
Toronto	3726	3726	-1302	+1
LKC	3741	3742	-1318	FL
BKC	3961	3962	-1538	+1

REFERENCE WELL FOR STRUCTURE Petroleum, Inc.
Richmeier "E" #1 C-NE-SE Sec. 27-8s-25w

DRILL STEM TESTS

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

REMARKS AND RECOMMENDATIONS Due to structural position, DST recovery, + log evaluation, it was decided to set 5½" production casing for completion.

Perforate:

LKC "E": 3811-16 (DST #1)
"J": 3913-15 (DST #2, Before Abandonment)
"I": 3895-97 (" " ")
"H": 3871-73 (" " ")

[signature]

LEGEND

Anhydrite, Salt, Sandstone, Shale, Carb sh, Limestone, Ool.Lime, Chert, Dolomite

DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Decreases)	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS

Depths: 3350, 3400, 50, 3500, 50, 3600, 50, 3700, 50, 3800, 50, 3900, 50, 4000

Sample descriptions:

Sh: Black Carb
LS: wht, md xln, many sml foss + ool, gd intxln + vugs ϕ, Totally barren, chlky in pt, ...
LS: wht, fn-md xln, scat foss, pck, tmg chlky, scat wht foss chts, All NS.
LS: wht, fn-md xln, foss, scat gd ϕ, mostly vchlky. All NS, scat wht chts.
Sh: Black Carb
Sh: gry wl brn
LS: wht, md xln, foss, fr intxln wl gry shp chts, NS.
Sh: brn wl gry
LS: wht, dlt, gcol pck, mostly pck + some wht-tan chts in base, NS.
Sh: Black Carb
tmg red-brn, washes red
LS: wht, md xln, scat foss + ool, 2-3 ca w/ fr SFO in fr vugs, sltly bny, NO Od, tan chts.
Sh: red-brn, washes red
LS: wht, foss, pr pck, fr-sml vugs, pr tmg shw, rare lmg SFO in fs, NO Od.
Sh: gry
LS: wht, md xln, foss, fr-sml fossl vgs, lt brn Od stn, fr SFO, lt Od, NO ...
LS: wht, lt-gr Od, AH, mostly dns, chlky, fair Od.
LS: wht, fn-md xln, scat foss, Tmg sub-xln-chlky, All NS.
LS: wht, fn xln, scat foss, pck. Tan-wht chts, All NS.
Sh: Black Carb
Sh: brn wl gry
LS: wht, fn-md xln, fr intxln, sltly brn, fr SFO, fr ... sltly ... SFO, scat foss, ... pck, fnt Od.
Sh: gry-lt grn, wl brn
LS: tan-wht, fn-md xln, foss, ... fr SFO ... lt brn Od ... SFO, fr Od.
LS: tan, md xln, foss, pck-fr vugs, sltly tite, ... fr ... SFO, fr Od. SH free oil on ...
Sh: gry wl much brn
LS: wht, mostly fn-md xln, ... scat ... sltly ... SFO, ... tmg tite, ... dns.
Sh: gry
LS: wht-lt tan, md xln, sbhb xln in pt. Mostly pck + dns, sltly mttld, All NS.
Sh: gry wl much brn-red, washes red.
LS: tan, md xln, pck, dns.
Sh: brn

[signature]

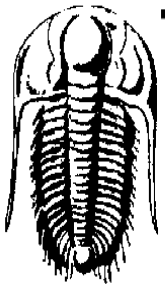
DST #1 and DST #2 intervals bracketed in the depth column.

Remarks:

Vis: 60 Wt: 8.9

DST #1
3800 - 3825
45-45-45-45
I.F.- BOB 8½ min/3/4" SIB
F.F.- BOB 6½ min/1" SIB
IFP: 13-54
FFP: 57-96
SIP: 1134-1073
HP: 1999-1866
Rec:
697' GIP
65' co
196' MCO 75%
BHT: 117° G=38

DST #2
3851 - 3925
45-45-45-45
I.F.- 6¾" blow
F.F.- 3¾" blow
IFP: 16-20
FFP: 30-38
SIP: 1055-993
HP: 1991-1863
Rec:
46' ocm 1%
BHT: 109°



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663-0086

ATTN: Marc Downing

David Trust #26-1

26-8s-25w Graham,KS

Start Date: 2013.02.10 @ 00:30:00
End Date: 2013.02.10 @ 08:45:00
Job Ticket #: 50320 DST #: 1

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

Printed: 2013.02.19 @ 09:34:17

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

PO Box 86
Plainville, KS 67663-0086

ATTN: Marc Dow ning

26-8s-25w Graham,KS

David Trust #26-1

Job Ticket: 50320 **DST#: 1**

Test Start: 2013.02.10 @ 00:30:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:18:40
Time Test Ended: 08:45:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 41

Interval: 3800.00 ft (KB) To 3825.00 ft (KB) (TVD)
Total Depth: 3825.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

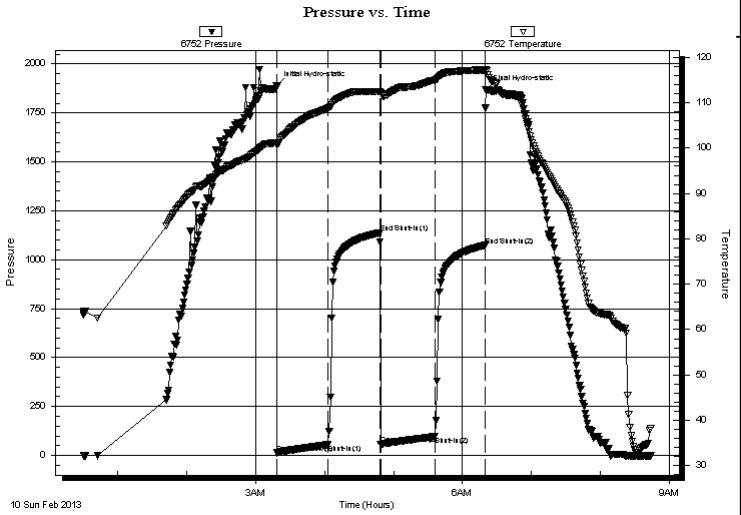
Reference Elevations: 2436.00 ft (KB)
2431.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 96.40 psig @ 3822.00 ft (KB)
Start Date: 2013.02.10 End Date: 2013.02.10
Start Time: 00:30:01 End Time: 08:44:30

Capacity: 8000.00 psig
Last Calib.: 2013.02.10
Time On Btm: 2013.02.10 @ 03:18:30
Time Off Btm: 2013.02.10 @ 06:20:20

TEST COMMENT: 45-IFP- BOB in 8 1/2 min.
45-ISIP- Surface Blow Building to 3/4" in 8 min.
45-FFP- BOB in 6 1/2 min.
45-FSIP- Surface Blow Building to 1" in 3 min. Died Back in 11 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.06	101.21	Initial Hydro-static
1	13.19	100.77	Open To Flow (1)
45	54.55	108.77	Shut-In(1)
90	1136.83	112.49	End Shut-In(1)
91	57.86	112.24	Open To Flow (2)
138	96.40	115.00	Shut-In(2)
182	1073.12	117.22	End Shut-In(2)
182	1866.99	117.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	CO 100%	0.77
186.00	OCM 25%m 75%o	2.61
0.00	687 GIP	0.00

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: Marc Dow ning

26-8s-25w Graham,KS

David Trust #26-1

Job Ticket: 50320 **DST#: 1**

Test Start: 2013.02.10 @ 00:30:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:18:40
Time Test Ended: 08:45:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 41

Interval: 3800.00 ft (KB) To 3825.00 ft (KB) (TVD)
Total Depth: 3825.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

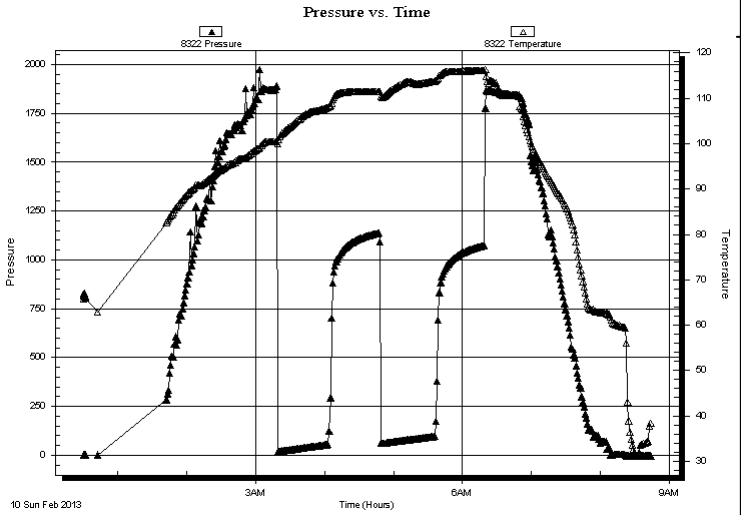
Reference Elevations: 2436.00 ft (KB)
2431.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322 **Outside**

Press@RunDepth: psig @ 3822.00 ft (KB)
Start Date: 2013.02.10 End Date: 2013.02.10
Start Time: 00:30:01 End Time: 08:44:30

Capacity: 8000.00 psig
Last Calib.: 2013.02.10
Time On Btm:
Time Off Btm:

TEST COMMENT: 45-IFP- BOB in 8 1/2 min.
45-ISIP- Surface Blow Building to 3/4" in 8 min.
45-FFP- BOB in 6 1/2 min.
45-FSIP- Surface Blow Building to 1" in 3 min. Died Back in 11 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
55.00	CO 100%	0.77
186.00	OCM 25%m 75%o	2.61
0.00	687 GIP	0.00

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: Marc Dow ning

26-8s-25w Graham,KS

David Trust #26-1

Job Ticket: 50320 **DST#: 1**

Test Start: 2013.02.10 @ 00:30:00

Tool Information

Drill Pipe:	Length:	3806.00 ft	Diameter:	3.80 inches	Volume:	53.39 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	53.39 bbl	

Drill Pipe Above KB:	26.00 ft
Depth to Top Packer:	3800.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	25.00 ft
Tool Length:	45.00 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:	48000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	44000.00 lb
Final	45000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3785.00		
Hydraulic tool	5.00			3790.00		
Packer	5.00			3795.00	20.00	Bottom Of Top Packer
Packer	5.00			3800.00		
Stubb	1.00			3801.00		
Perforations	21.00			3822.00		
Recorder	0.00	6752	Inside	3822.00		
Recorder	0.00	8322	Outside	3822.00		
Bullnose	3.00			3825.00	25.00	Bottom Packers & Anchor
Total Tool Length:	**45.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

PO Box 86
Plainville, KS 67663-0086

ATTN: Marc Dow ning

26-8s-25w Graham,KS

David Trust #26-1

Job Ticket: 50320 **DST#: 1**

Test Start: 2013.02.10 @ 00:30:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	38 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

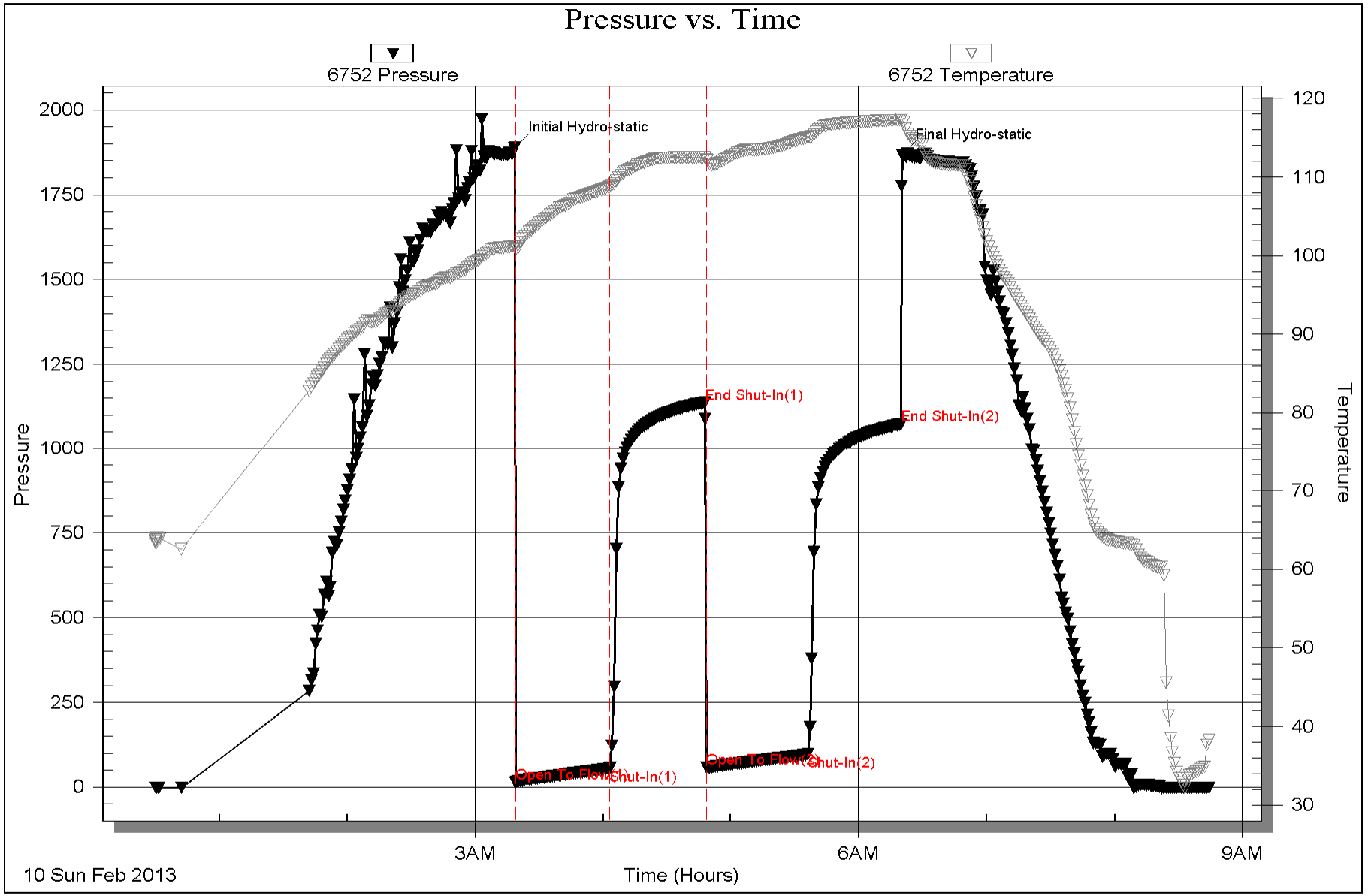
Recovery Table

Length ft	Description	Volume bbl
55.00	CO 100%	0.772
186.00	OCM 25%m 75%o	2.609
0.00	687 GIP	0.000

Total Length: 241.00 ft Total Volume: 3.381 bbl

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

Serial #: 6752 **Inside** H&C Oil Operating, Inc. David Trust #26-1 DST Test Number: 1



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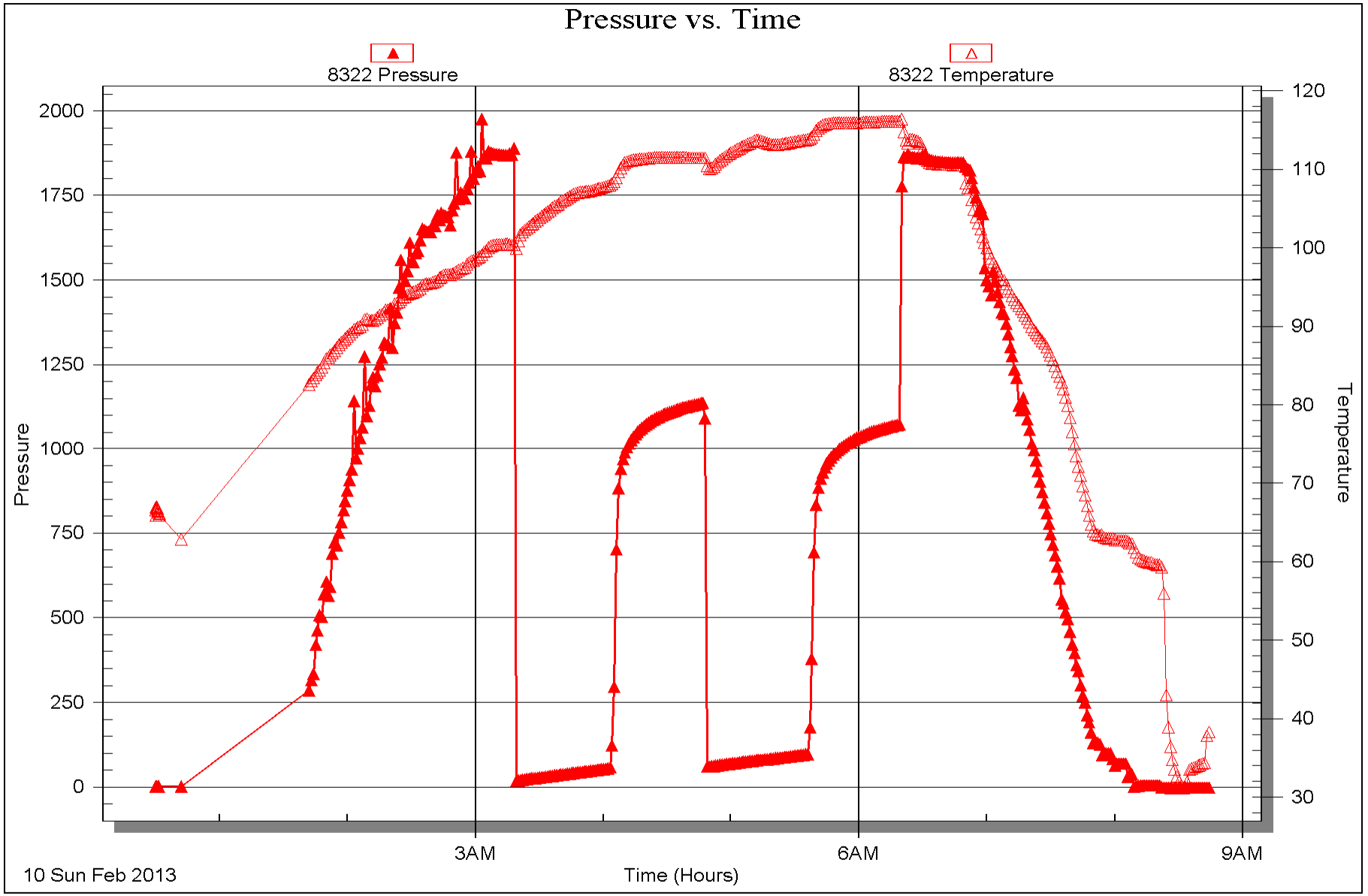
Serial #: 8322 **Outside** H&C Oil Operating, Inc. David Trust #26-1 DST Test Number: 1



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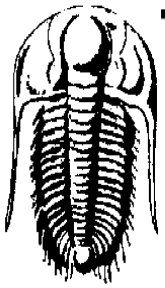


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663-0086

ATTN: Marc Downing

David Trust #26-1

26-8s-25w Graham,KS

Start Date: 2013.02.10 @ 19:37:00
End Date: 2013.02.11 @ 03:23:00
Job Ticket #: 50321 DST #: 2

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

Printed: 2013.02.19 @ 09:33:08

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

PO Box 86
Plainville, KS 67663-0086

ATTN: Marc Dow ning

26-8s-25w Graham,KS

David Trust #26-1

Job Ticket: 50321 **DST#: 2**

Test Start: 2013.02.10 @ 19:37:00

GENERAL INFORMATION:

Formation: **LKC " H - J "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:21:20
Time Test Ended: 03:23:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41

Interval: 3851.00 ft (KB) To 3925.00 ft (KB) (TVD)
Total Depth: 3925.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

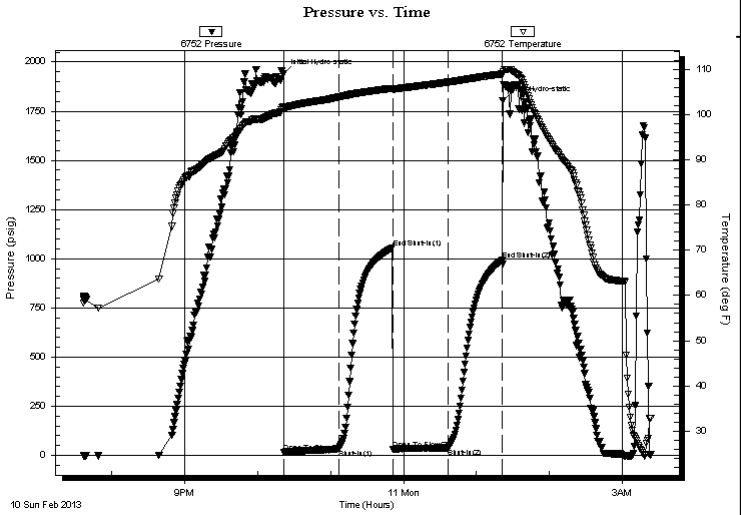
Reference Elevations: 2436.00 ft (KB)
2431.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 38.71 psig @ 3859.00 ft (KB)
Start Date: 2013.02.10 End Date: 2013.02.11
Start Time: 19:37:01 End Time: 03:23:00

Capacity: 8000.00 psig
Last Calib.: 2013.02.11
Time On Btm: 2013.02.10 @ 22:21:10
Time Off Btm: 2013.02.11 @ 01:21:30

TEST COMMENT: 45-IFP- Surface Blow Building to 6 1/2"
45-ISIP- No Blow
45-FFP- Surface Blow Building to 3 3/4"
45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.14	101.66	Initial Hydro-static
1	16.36	100.98	Open To Flow (1)
46	30.98	103.84	Shut-In(1)
90	1055.38	105.78	End Shut-In(1)
91	30.62	105.62	Open To Flow (2)
136	38.71	107.14	Shut-In(2)
180	993.11	108.95	End Shut-In(2)
181	1803.93	109.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 1%o 99%m	0.56

* 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: Marc Dow ning

26-8s-25w Graham,KS

David Trust #26-1

Job Ticket: 50321 **DST#: 2**

Test Start: 2013.02.10 @ 19:37:00

GENERAL INFORMATION:

Formation: **LKC " H - J "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:21:20
Time Test Ended: 03:23:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41

Interval: 3851.00 ft (KB) To 3925.00 ft (KB) (TVD)
Total Depth: 3925.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

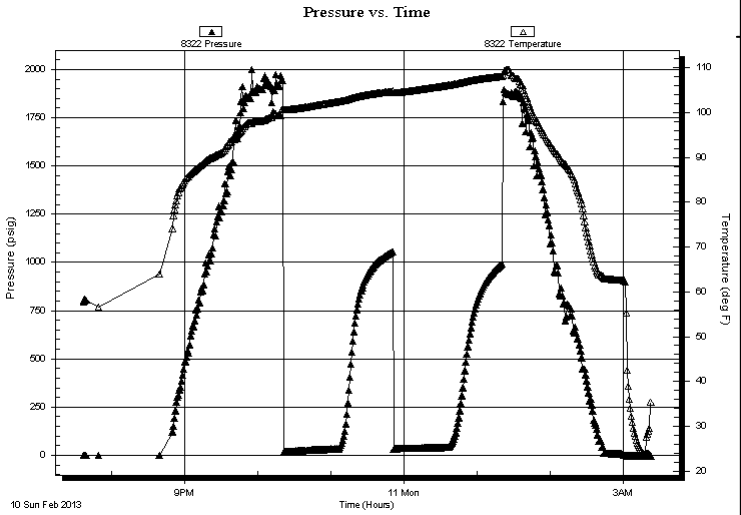
Reference Elevations: 2436.00 ft (KB)
2431.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322 **Outside**

Press@RunDepth: psig @ 3859.00 ft (KB)
Start Date: 2013.02.10 End Date: 2013.02.11
Start Time: 19:37:01 End Time: 03:22:40

Capacity: 8000.00 psig
Last Calib.: 2013.02.11
Time On Btm:
Time Off Btm:

TEST COMMENT: 45-IFP- Surface Blow Building to 6 1/2"
45-ISIP- No Blow
45-FFP- Surface Blow Building to 3 3/4"
45-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 1%o 99%m	0.56

* 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: Marc Dow ning

26-8s-25w Graham,KS

David Trust #26-1

Job Ticket: 50321 **DST#: 2**

Test Start: 2013.02.10 @ 19:37:00

Tool Information

Drill Pipe:	Length:	3837.00 ft	Diameter:	3.80 inches	Volume:	53.82 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:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		49000.00 lb
					Total Volume:	53.82 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3851.00 ft						Final	47000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		74.00 ft							
Tool Length:		94.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3836.00		
Hydraulic tool	5.00			3841.00		
Packer	5.00			3846.00	20.00	Bottom Of Top Packer
Packer	5.00			3851.00		
Stubb	1.00			3852.00		
Perforations	6.00			3858.00		
Change Over Sub	1.00			3859.00		
Recorder	0.00	6752	Inside	3859.00		
Recorder	0.00	8322	Outside	3859.00		
Blank Spacing	62.00			3921.00		
Change Over Sub	1.00			3922.00		
Bullnose	3.00			3925.00	74.00	Bottom Packers & Anchor
Total Tool Length:	**94.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

PO Box 86
Plainville, KS 67663-0086

ATTN: Marc Dow ning

26-8s-25w Graham,KS

David Trust #26-1

Job Ticket: 50321 **DST#: 2**

Test Start: 2013.02.10 @ 19:37:00

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:	68.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	4.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

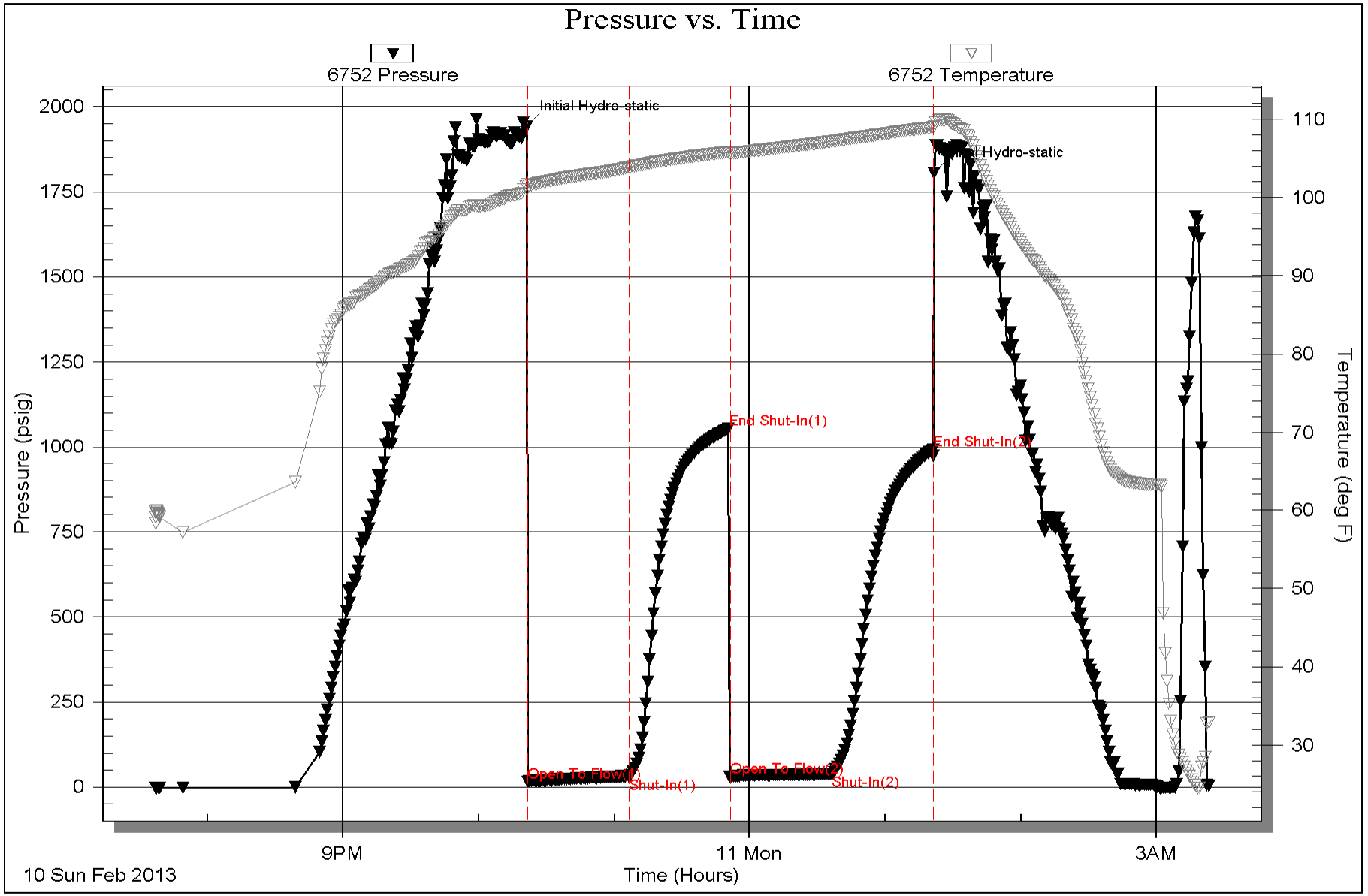
Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 1%o 99%m	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

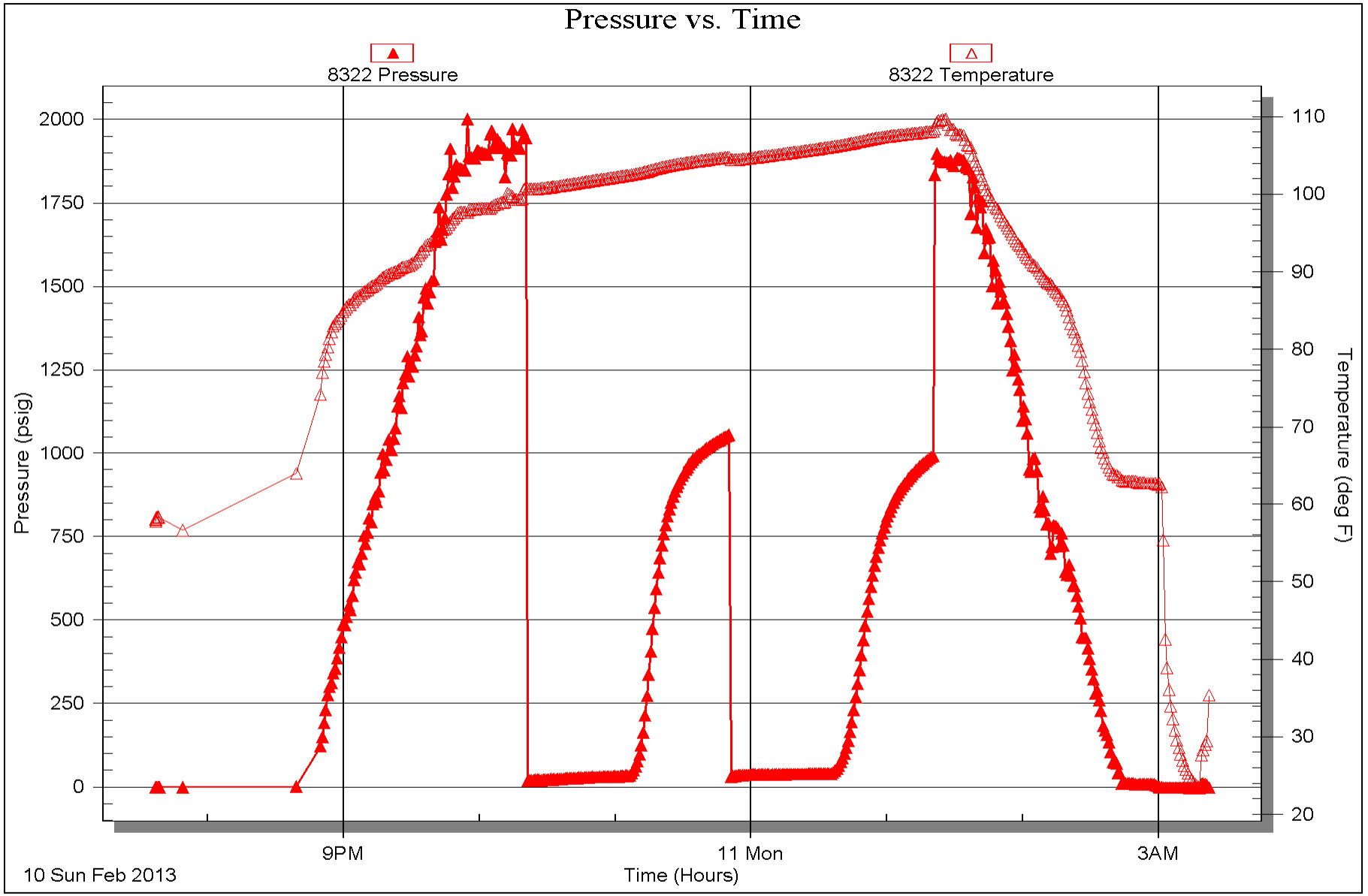
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6752 **Inside** H&C Oil Operating, Inc. David Trust #26-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 50321 Printed: 2013.02.19 @ 09:33:11

Serial #: 8322 **Outside** H&C Oil Operating, Inc. David Trust #26-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 50321 Printed: 2013.02.19 @ 09:33:12

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 50320

Well Name & No. David Trust #26-1 Test No. 1 Date 2-9-12

Company H & C Oil Operating Inc. Elevation 2436 KB 2438 GL

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

Co. Rep / Geo. Marc Downing Rig American Eagle #3

Location: Sec. 26 Twp. 8S Rge. 25W Co. Graham State KS

Interval Tested 3800-3825 Zone Tested LKC "E+F"

Anchor Length 25 Drill Pipe Run 3806 Mud Wt. 8.9

Top Packer Depth 3795 Drill Collars Run 0 Vis 60

Bottom Packer Depth 3800 Wt. Pipe Run 0 WL 5.6

Total Depth 3825 Chlorides 1000 ppm System LCM 2

Blow Description IFP- BOB 8½ min.

ISIP- Surface Blow Building To ¾ in. in 8 min.

FFP- BOB in 6½ min.

FSIP- Surface Blow Building to 1 in. in 3 min. Died Back in 11 min.

Rec 55	Feet of CO	%gas	100 %oil	%water	%mud	
Rec 186	Feet of MCO	%gas	75 %oil	%water 25	%mud	
Rec	Feet of 687 GIP	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 241 BHT 117 Gravity 38 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1889	☒ Test 1150	T-On Location 22:05	
(B) First Initial Flow 13	☐ Jars	T-Started 00:30	
(C) First Final Flow 54	☐ Safety Joint	T-Open 03:19	
(D) Initial Shut-In 1136	☐ Circ Sub	T-Pulled 06:19	
(E) Second Initial Flow 57	☐ Hourly Standby	T-Out 08:45	
(F) Second Final Flow 96	☒ Mileage 155 RT 240.25	Comments	
(G) Final Shut-In 1073	☐ Sampler		
(H) Final Hydrostatic 1866	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 45	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0	
Final Flow 45	☐ Day Standby	Total 1390.25	
Final Shut-In 45	☐ Accessibility	MP/DST Disc't	
	Sub Total 1390.25		

Approved By Our Representative

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.

4/10

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50321

Well Name & No. David Trust # 26-1	Test No. 2	Date 2-10-13	
Company H & C Oil Operating Inc.	Elevation 2436 KB	2431 GL	
Address P.O. Box 86 Plainville Ks. 67663-0086			
Co. Rep / Geo. Marc Downing	Rig American Eagle #3		
Location: Sec. 26	Twp. 8s	Rge. 25w	Co. Graham	State KS

Interval Tested 3851 - 3925 Zone Tested LKC "H-J"

Anchor Length	74	Drill Pipe Run	3837	Mud Wt.	9.3
Top Packer Depth	3846	Drill Collars Run	0	Vis	68
Bottom Packer Depth	3851	Wt. Pipe Run	0	WL	4.8
Total Depth	3925	Chlorides	2000 ppm System	LCM	2

Blow Description ~~[illegible]~~ IFP - Surface Blow Building to 6½ in.
ISIP - No Blow
FFP - Surface Blow Building to 3 ¾ in.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
40	OCM		1		99

Rec Total 40 BHT 109 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic	1941	☒ Test	1150	T-On Location	19:05
(B) First Initial Flow	16	☐ Jars		T-Started	19:37
(C) First Final Flow	30	☐ Safety Joint		T-Open	22:22
(D) Initial Shut-In	1055	☐ Circ Sub		T-Pulled	01:22
(E) Second Initial Flow	30	☐ Hourly Standby		T-Out	03:23
(F) Second Final Flow	38	☒ Mileage	240.25	Comments	
(G) Final Shut-In	993	☐ Sampler			
(H) Final Hydrostatic	1803	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	45	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	45	☐ Day Standby		Total	1390.25
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	1390.25		

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.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

April 09, 2013

Charles Ramsay
H & C Oil Operating Inc.
PO BOX 86
PLAINVILLE, KS 67663-0086

Re: ACO1
API 15-065-23891-00-00
David Trust 26-1
SW/4 Sec.26-08S-25W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Charles Ramsay

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 6516

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-12-13	26	8	25	Graham	KS		9:30 p.m.

Location Morland 3S W into

Lease David Trust Well No. 26-1

Contractor American Eagle #3

Type Job Production String

Hole Size 7 7/8 T.D. 4010

Csg. 5 1/2 Depth 3995

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 21.77 Shoe Joint 21.77

Meas Line Displace 97 BL

EQUIPMENT

Pumptrk 9	No.	Cementer	Craig
		Helper	
Bulktrk 12	No.	Driver	Cody
		Driver	Heath
Bulktrk 14	No.	Driver	
		Driver	Lonnie

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30sk

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

5 1/2 set @ 3995. Insert @ 3973

Est Circulation. Pump 500 gal + 10 BL Spacer. Cement Rathole with 30sk Mix 420sk Lite + 150 Behind. Clear lines. Displace Plug

Cement Circulated!

X Signature

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 450 QmDC 1/4# Flo 500 gal mud flush 150 gal 10% salt 5% Gilsonite

Common 150

~~Poz. Mix~~ 450 QmDC

Gel.

Calcium

Hulls

Salt 13

Flowseal 125#

Kol-Seal 625#

Mud CLR 48 500 gal

CFL-117 or CD110 CAF 38

Sand

Handling 619

Mileage

FLOAT EQUIPMENT

Guide Shoe 5 1/2

Centralizer 7 Turbolizers

Baskets 7

AFU Inserts

Float Shoe 1

Latch Down 1

Pumptrk Charge prod. Long String

Mileage 24

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. 6508

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-5-13	26	8	25	Graham	KS		4:15 A.M.

Location Moreland 3s Into

Lease David Trust Well No. 26-1

Owner

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 T.D. 224

Charge To H & C

Csg. 8 5/8 Depth 224

Street

Tbg. Size Depth

City State

Tool Depth

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

Cement Left in Csg. Shoe Joint

Cement Amount Ordered 150 Com 3%CC 2%GEL

Meas Line Displace 13 1/4 BL

EQUIPMENT

Pumptrk 9 No. Cementer Craig / Helper

Bulktrk No. Driver Cody / Driver

Bulktrk 12 No. Driver / Driver Heath

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8 5/8 on bottom. Est Circulation. Mix 150sk & Displace. Cement Circulated!

Common	150
Poz. Mix	-
Gel.	3
Calcium	5
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	158
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	24
Tax	
Discount	
Total Charge	

X Signature Brad Kerschen