

8/12/12

CONFIDENTIAL

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1
June 2009
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: P.O. Box 86
Address 2: _____
City: Plainville State: KS Zip: 67663 + _____
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 SLOW
 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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>7/16/2011</u>	<u>7/22/2011</u>	<u>7/22/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23747-00-00
Spot Description: _____
W2 NW NE NE Sec. 6 Twp. 6 S. R. 23 East West
330 Feet from North / South Line of Section
1,200 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Circle 3 Ranch Well #: 6-1
Field Name: Wildcat
Producing Formation: none
Elevation: Ground: 2352 Kelly Bushing: 2357
Total Depth: 3785 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 256 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: _____
Quarter _____ Sec. _____ Twp. CO S. R. _____ East West
County: _____ Permit #: AUG 12 2012

KCC

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Charles B Ramsay
Title: President Date: 8/11/11

KCC Office Use ONLY

<input checked="" type="checkbox"/> Letter of Confidentiality Received	RECEIVED
Date: <u>8/12/11 - 8/12/12</u>	
<input type="checkbox"/> Confidential Release Date: _____	AUG 12 2011
<input checked="" type="checkbox"/> Wireline Log Received	
<input checked="" type="checkbox"/> Geologist Report Received	
<input type="checkbox"/> UIC Distribution	
ALT <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III Approved by: <u>[Signature]</u> Date: <u>8/22/11</u>	KCC WICHITA

Operator Name: H&C Oil Operating, Inc. Lease Name: Cirlice 3 Ranch Well #: 6-1
 Sec. 6 Twp. 6 S. R. 23 East West County: Graham

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual induction, microresistivity log, Dual compensated porosity, borehole compensated sonic log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Top Anhydrite</td> <td>1989</td> <td>+368</td> </tr> <tr> <td>Base Anhydrite</td> <td>2021</td> <td>+336</td> </tr> <tr> <td>Topeka</td> <td>3313</td> <td>-956</td> </tr> <tr> <td>Heebner</td> <td>3515</td> <td>-1158</td> </tr> <tr> <td>Toronto</td> <td>3540</td> <td>-1183</td> </tr> <tr> <td>LKC</td> <td>3556</td> <td>-1199</td> </tr> <tr> <td>BKC</td> <td>3743</td> <td>-1386</td> </tr> </tbody> </table>	Name	Top	Datum	Top Anhydrite	1989	+368	Base Anhydrite	2021	+336	Topeka	3313	-956	Heebner	3515	-1158	Toronto	3540	-1183	LKC	3556	-1199	BKC	3743	-1386
Name	Top	Datum																							
Top Anhydrite	1989	+368																							
Base Anhydrite	2021	+336																							
Topeka	3313	-956																							
Heebner	3515	-1158																							
Toronto	3540	-1183																							
LKC	3556	-1199																							
BKC	3743	-1386																							

CASING RECORD <input checked="" 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
surface	12 1/4"	8 5/8"	23	256	common	160	3%cc, 2%gel

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				

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
		CONFIDENTIAL	
		AUG 1 2 2011	
		KCC	

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	RECEIVED AUG 1 2 2011 KCC WICHITA
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 5301

Date	7-16-11	Sec.	6	Twp.	6	Range	23	County	Cowley	State	KS	On Location		Finish	2:00 P.M.
Lease	Circle 3 Ranch			Well No.	6-1			Location	Hillway - CCFD on 230 ft 3/4" Ext.						
Contractor	American Energy #3							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.						
Type Job	Surface							Charge To	H.E.C.						
Hole Size	12 1/4			T.D.	256			Depth	256						
Csg.	5 5/8			Depth											
Tbg. Size				Depth											
Tool				Depth											
Cement Left in Csg.	15'			Shoe Joint											
Meas Line				Displace	15 1/4 BBL			Cement Amount Ordered	160 lb on 3/4" 2 1/2" CCL						

EQUIPMENT

Pumptrk	5	No.	Cementers	5	Common	160
			Helper			
Bulktrk		No.	Driver	2	Poz. Mix	
			Driver			
Bulktrk	14	No.	Driver	1	Gel.	3
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
3 3/8 on bottom Est. Circulation.	Sand
Mix 160 lb & Displace.	Handling 168
Cement Circulation	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	CONFIDENTIAL
AFU Inserts	AUG 12 2011
Float Shoe	KCC
Latch Down	
Pumptrk Charge	Surface
Mileage	39

THANKS!

X Signature Bradford Burke

Tax
Discount
Total Charge

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AUG 12 2011

KCC WICHITA

ALLIED CEMENTING CO., LLC. 037250

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Great Bend 47

DATE 7-22-11	SEC 6	TWP 6	RANGE 23	CALLED OUT	ON LOCATION	JOB START 7:30 PM	JOB FINISH 8:30 PM
Circle		WELL# 6-1		LOCATION Hill City KS North		COUNTY Graham	STATE KS
LEASE 3 Ranch				TOCC RD west Tozzo 1 North East 1/2			
OLD OR (NEW) (Circle one)							

CONTRACTOR American Eagle R:23 OWNER H+C oil

TYPE OF JOB Rotary Plus
 HOLE SIZE 7 3/4 T.D. 3785
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 1990
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS _____
 DISPLACEMENT _____

CEMENT AMOUNT ORDERED 2053x 60/40 + 4% gel + 4% latex

COMMON	123	@ 16.25	1,998.75
POZMIX	82	@ 8.50	697.00
GEL	7	@ 21.25	148.75
CHLORIDE		@	
ASC		@	
7.10 seal	51	@ 2.70	137.70
		@	
		@	
		@	
		@	
		@	
HANDLING	214	@ 2.25	481.50
MILEAGE	214 x 80x.1		1,883.20
TOTAL			5,346.90

EQUIPMENT

PUMP TRUCK CEMENTER Wayne
 # 366 HELPER Greg
 BULK TRUCK
 # 341 DRIVER Kevin
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

1st plus 1990 Row 10 BBLs water Ahead
Mix 2553x Displace 26 BBLs
2nd plus 1200 mix 100 5x
3rd plus 300 mix 40 5x
4th plus 40 mix 10 5x
Rathole mix 30 5x

SERVICE

DEPTH OF JOB	1990		
PUMP TRUCK CHARGE			1,250.00
EXTRA FOOTAGE		@	
MILEAGE <u>Truck</u>	160	@ 7.00	1,120.00
MANIFOLD		@	
<u>Light Truck</u>	160	@ 4.00	640.00
		@	
TOTAL			3,010.00

CHARGE TO: H+C oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

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 AUG 2 2012
 KCC

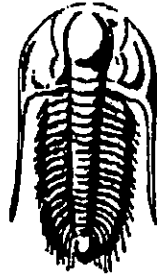
To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 8,356.90
 DISCOUNT 20% 1,671.38 IF PAID IN 30 DAYS
6,685.52

TOTAL _____

RECEIVED
 AUG 12 2011
 KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO.Box 86
Plainville, KS 67663

ATTN: Marc Downing

6-6s-23w Graham,KS

Circle 3 Ranch #6-1

Start Date: 2011.07.21 @ 14:17:30

End Date: 2011.07.21 @ 19:22:30

Job Ticket #: 45213 DST #: 3

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AUG 2 2012

KCC

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2011.07.28 @ 15:06:47

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AUG 12 2011

KCC WICHITA

API# 15.065.23747.00.00

H&C Oil Operating Inc.

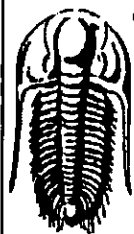
Circle 3 Ranch #6-1

6-6s-23w Graham,KS

DST # 3

LKC "J"

2011.07.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO. Box 86
Rainville, KS 67663

6-6s-23w Graham, KS

Job Ticket: 45213

DST#: 3

ATTN: Marc Downing

Test Start: 2011.07.21 @ 14:17:30

GENERAL INFORMATION:

Formation: LKC "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:36:50

Time Test Ended: 19:22:30

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3678.00 ft (KB) To 3705.00 ft (KB) (TVD)

Reference Elevations: 2357.00 ft (KB)

Total Depth: 3705.00 ft (KB) (TVD)

2352.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press@RunDepth: 45.14 psig @ 3680.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.21

End Date: 2011.07.21

Last Calib.: 2011.07.21

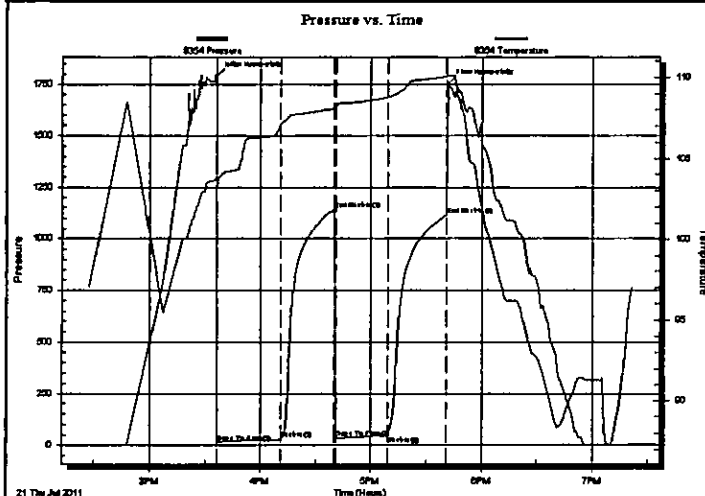
Start Time: 14:27:30

End Time: 19:22:30

Time On Btm: 2011.07.21 @ 15:36:40

Time Off Btm: 2011.07.21 @ 17:42:00

TEST COMMENT: IF-Weak building blow . Built to 1/2 inch. Died off to surface.
ISI-No Return.
FF-Weak building blow . Built to 1/2 inch. Died @ 23 minutes.
FSI-No Return.



PRESSURE SUMMARY

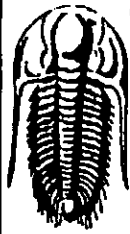
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.25	103.95	Initial Hydro-static
1	12.60	103.08	Open To Flow (1)
35	27.26	107.14	Shut-In (1)
64	1139.92	108.06	End Shut-In (1)
65	33.53	108.11	Open To Flow (2)
93	45.14	108.78	Shut-In (2)
125	1113.32	110.07	End Shut-In (2)
126	1757.86	110.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	60%Mud/40%Water	0.91
5.00	100%Oil	0.07

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO. Box 86
Plainville, KS 67663

6-6s-23w Graham, KS

Job Ticket: 45213

DST#: 3

ATTN: Marc Downing

Test Start: 2011.07.21 @ 14:17:30

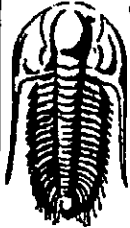
Tool Information

Drill Pipe:	Length: 3686.00 ft	Diameter: 3.80 inches	Volume: 51.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 51.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3678.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 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			3659.00	
Shut In Tool	5.00			3664.00	
Hydraulic tool	5.00			3669.00	
Packer	5.00			3674.00	20.00 Bottom Of Top Packer
Packer	4.00			3678.00	
Stubb	1.00			3679.00	
Perforations	1.00			3680.00	
Recorder	0.00	8354	Inside	3680.00	
Recorder	0.00	8520	Outside	3680.00	
Perforations	22.00			3702.00	
Bullnose	3.00			3705.00	27.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO.Box 86
Rainville, KS 67663

6-6s-23w Graham,KS

Job Ticket: 45213

DST#: 3

ATTN: Marc Downing

Test Start: 2011.07.21 @ 14:17:30

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 6.39 in³

Resistivity: 0.16 ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 32000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	60%Mud/40%Water	0.912
5.00	100%Oil	0.070

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

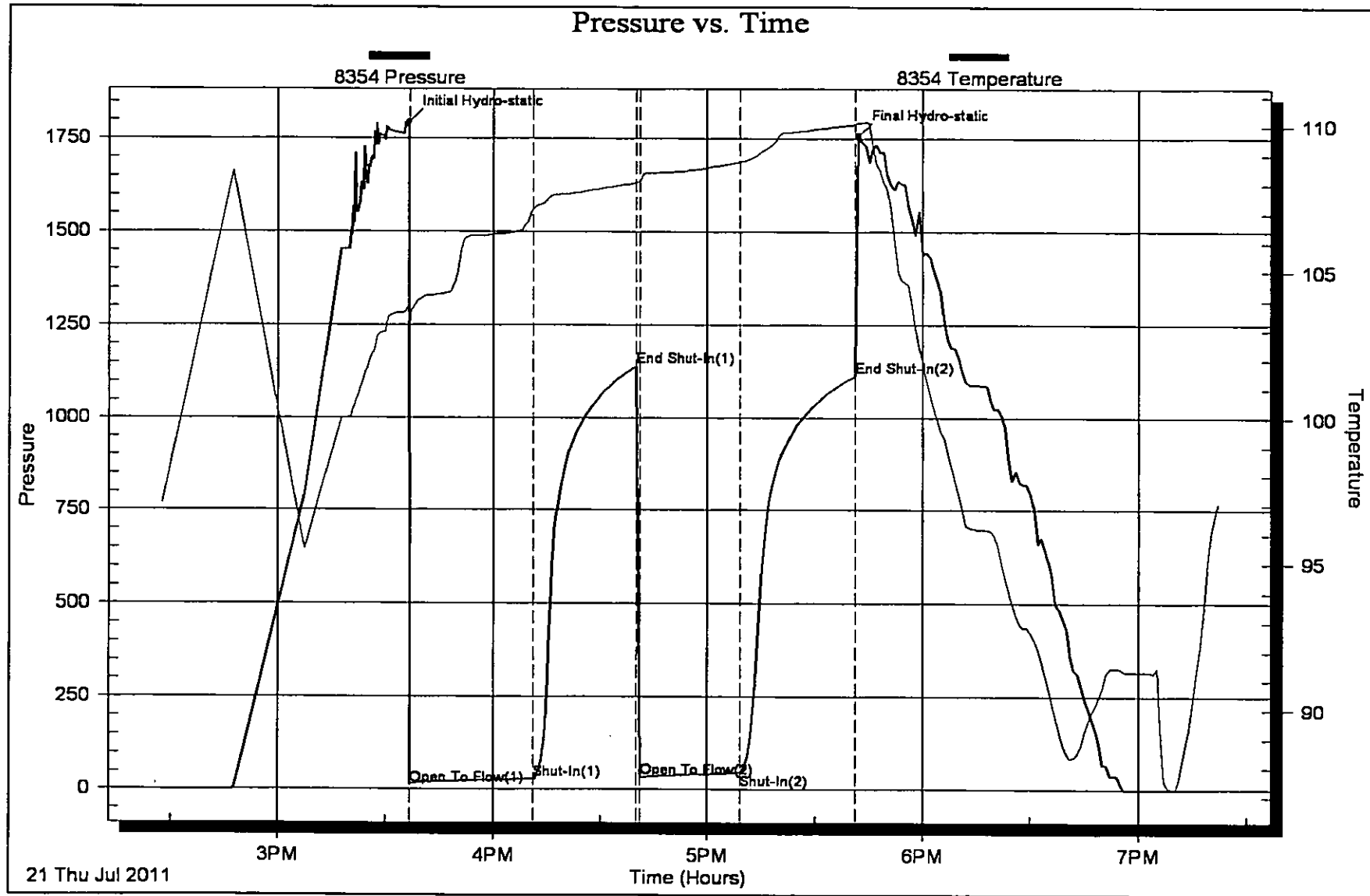
Num Gas Bombs: 0

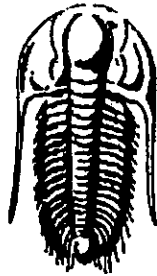
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO. Box 86
Plainville, KS 67663

ATTN: Marc Downing

6-6s-23w Graham,KS

Circle 3 Ranch #6-1

Start Date: 2011.07.21 @ 00:29:20

End Date: 2011.07.21 @ 07:48:20

Job Ticket #: 45212 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO.Box 86
Plainville, KS 67663

6-6s-23w Graham,KS

ATTN: Marc Downing

Job Ticket: 45212 DST#: 2

Test Start: 2011.07.21 @ 00:29:20

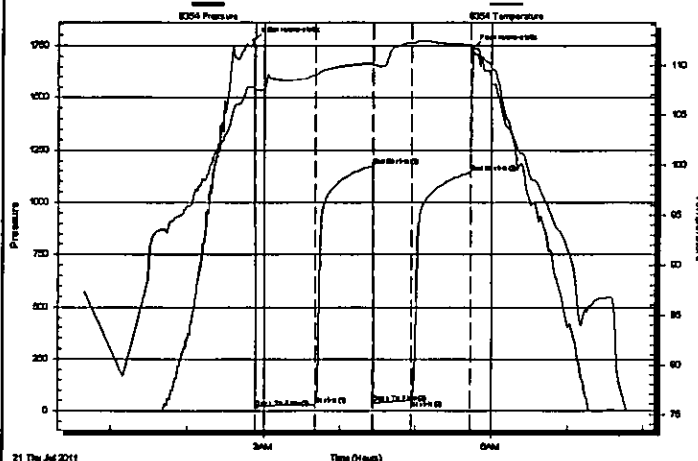
GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 02:52:50
 Time Test Ended: 07:48:20
 Interval: **3647.00 ft (KB) To 3678.00 ft (KB) (TVD)**
 Total Depth: **3678.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Dustin Rash**
 Unit No: **38**
 Reference Elevations: **2357.00 ft (KB)**
2352.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8354 **Inside**
 Press@RunDepth: **50.69 psig @ 3650.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.07.21** End Date: **2011.07.21** Last Calib.: **2011.07.21**
 Start Time: **00:39:20** End Time: **07:48:20** Time On Btm: **2011.07.21 @ 02:51:20**
 Time Off Btm: **2011.07.21 @ 05:44:50**

TEST COMMENT: IF-Weak building blow . Built to 2 1/2 inches.
 IS-No Return.
 FF-Very weak building blow . Built to 1 1/2 inches.
 FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.18	107.82	Initial Hydro-static
2	13.12	107.41	Open To Flow (1)
49	29.45	108.93	Shut-in(1)
95	1176.06	110.21	End Shut-in(1)
95	40.45	109.97	Open To Flow (2)
126	50.69	112.18	Shut-in(2)
173	1144.11	112.02	End Shut-in(2)
174	1736.32	111.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	60%Mud/40%Water	1.19

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO.Box 86
Rainville, KS 67663

6-6s-23w Graham,KS

Job Ticket: 45212

DST#: 2

ATTN: Marc Downing

Test Start: 2011.07.21 @ 00:29:20

Tool Information

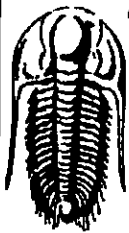
Drill Pipe:	Length: 3655.00 ft	Diameter: 3.80 inches	Volume: 51.27 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 51.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3647.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 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			3628.00	
Shut In Tool	5.00			3633.00	
Hydraulic tool	5.00			3638.00	
Packer	5.00			3643.00	20.00 Bottom Of Top Packer
Packer	4.00			3647.00	
Stubb	1.00			3648.00	
Perforations	2.00			3650.00	
Recorder	0.00	8354	Inside	3650.00	
Recorder	0.00	8520	Outside	3650.00	
Perforations	25.00			3675.00	
Bullnose	3.00			3678.00	31.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO.Box 86
Plainville, KS 67663

6-6s-23w Graham,KS

Job Ticket: 45212

DST#: 2

ATTN: Marc Downing

Test Start: 2011.07.21 @ 00:29:20

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.26 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	60%Mud/40%Water	1.192

Total Length: 85.00 ft

Total Volume: 1.192 bbl

Num Fluid Samples: 0

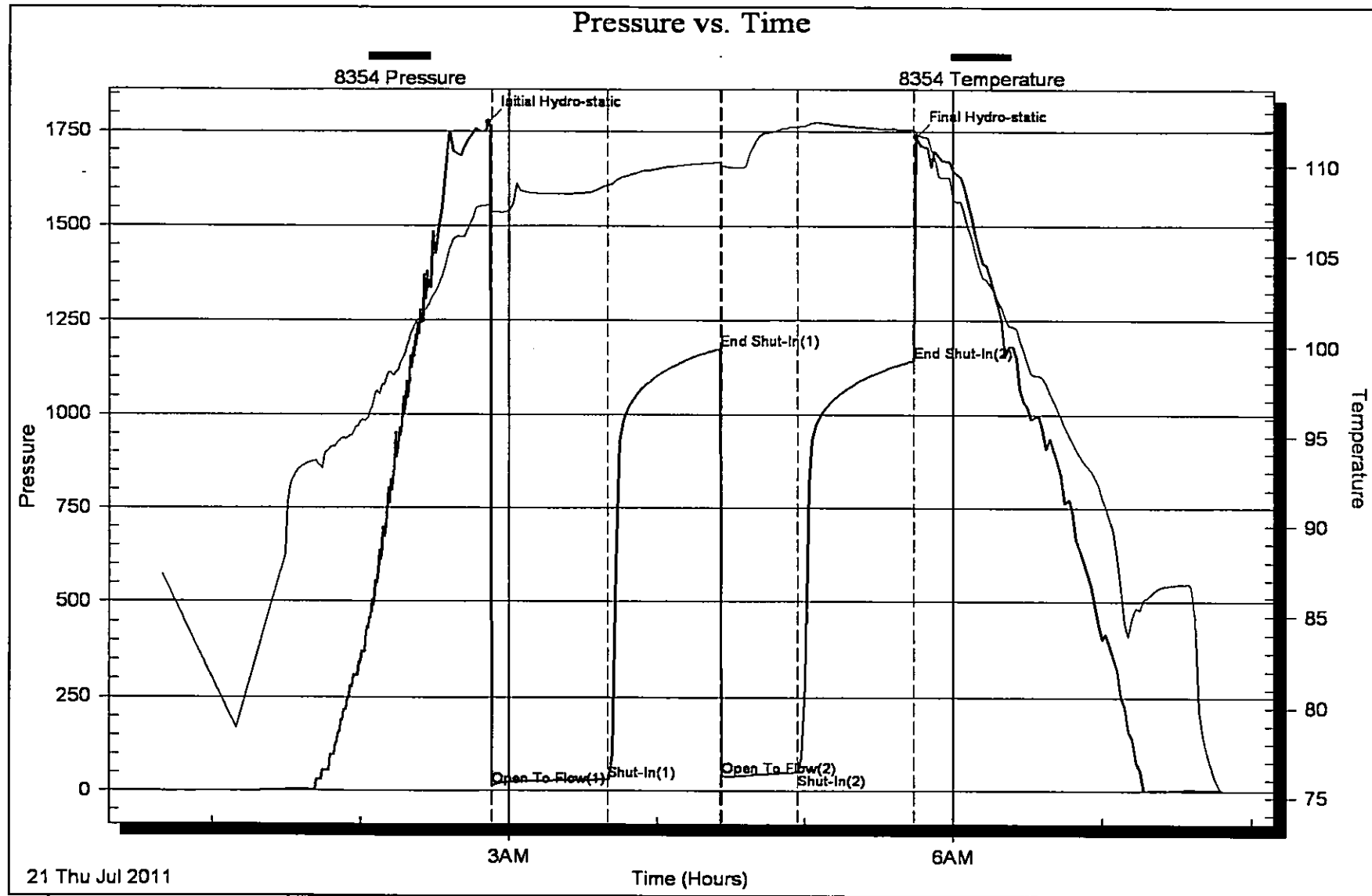
Num Gas Bombs: 0

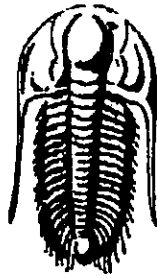
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO.Box 86
Plainville, KS 67663

ATTN: Marc Downing

6-6s-23w Graham,KS

Circle 3 Ranch #6-1

Start Date: 2011.07.20 @ 06:58:05

End Date: 2011.07.20 @ 12:26:05

Job Ticket #: 45211 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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H&C Oil Operating Inc.

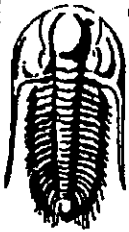
Circle 3 Ranch #6-1

6-6s-23w Graham,KS

DST # 1

LKC "A"

2011.07.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO.Box 86
Plainville, KS 67663

6-6s-23w Graham,KS

Job Ticket: 45211 DST#: 1

ATTN: Marc Downing

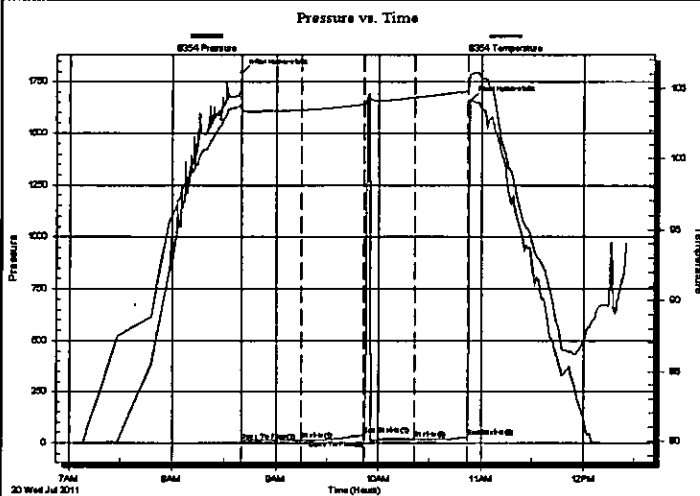
Test Start: 2011.07.20 @ 06:58:05

GENERAL INFORMATION:

Formation: **LKC "A"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **08:39:55**
 Time Test Ended: **12:26:05**
 Interval: **3540.00 ft (KB) To 3565.00 ft (KB) (TVD)**
 Total Depth: **3565.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Dustin Rash**
 Unit No: **38**
 Reference Elevations: **2357.00 ft (KB)**
2352.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8354 **Inside**
 Press@RunDepth: **19.02 psig @ 3542.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.07.20** End Date: **2011.07.20** Last Calib.: **2011.07.20**
 Start Time: **07:08:05** End Time: **12:26:05** Time On Btm: **2011.07.20 @ 08:39:45**
 Time Off Btm: **2011.07.20 @ 10:54:05**

TEST COMMENT: IF-Very weak surface blow . Died @ 4 minutes.
 IS- No Return.
 FF- No blow . Flushed tool. Few bubbles.
 FSI- No Return.



PRESSURE SUMMARY

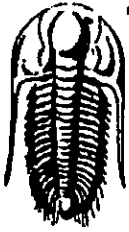
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.59	103.86	Initial Hydro-static
1	11.52	103.24	Open To Flow (1)
35	14.33	103.42	Shut-In(1)
72	38.04	103.82	End Shut-In(1)
72	13.88	103.82	Open To Flow (2)
102	19.02	104.32	Shut-In(2)
133	27.42	104.79	End Shut-In(2)
135	1662.00	106.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	98%Mud/2%Oil	0.06

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO.Box 86
Plainville, KS 67663

6-6s-23w Graham,KS

Job Ticket: 45211

DST#: 1

ATTN: Marc Downing

Test Start: 2011.07.20 @ 06:58:05

Tool Information

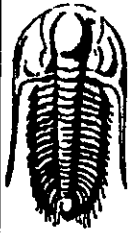
Drill Pipe:	Length: 3532.00 ft	Diameter: 3.80 inches	Volume: 49.54 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Full Loose: 4000.00 lb
			<u>Total Volume: 49.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3540.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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			3521.00	
Shut In Tool	5.00			3526.00	
Hydraulic tool	5.00			3531.00	
Packer	5.00			3536.00	20.00 Bottom Of Top Packer
Packer	4.00			3540.00	
Stubb	1.00			3541.00	
Perforations	1.00			3542.00	
Recorder	0.00	8354	Inside	3542.00	
Recorder	0.00	8520	Outside	3542.00	
Perforations	20.00			3562.00	
Bullnose	3.00			3565.00	25.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Circle 3 Ranch #6-1

PO.Box 86
Plainville, KS 67663

6-6s-23w Graham,KS

Job Ticket: 45211

DST#: 1

ATTN: Marc Downing

Test Start: 2011.07.20 @ 06:58:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	98%Mud/2%Oil	0.056

Total Length: 4.00ft

Total Volume: 0.056 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

