

CONFIDENTIAL

ORIGINAL

12/21/12

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: none

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
 Conv. to GSW
 Plug Back: Plug Back Total Depth
 Commingled Permit #:
 Dual Completion Permit #:
 SWD Permit #:
 ENHR Permit #:
 GSW Permit #:

11/25/2011 12/2/2011 12/3/2011
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 065-23789-00-00
Spot Description:
N/2 SW SE Sec. 11 Twp. 9 S. R. 25 East West
990 Feet from North / South Line of Section
1,980 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Schamberger Well #: 11-1
Field Name: Wildcat
Producing Formation: N/A
Elevation: Ground: 2543 Kelly Bushing: 2548
Total Depth: 4145 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 275 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: ppm Fluid volume: bbls
Dewatering method used:
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. East West
County: CONFIDENTIAL RECEIVED
Permit #:

DEC 21 2012

DEC 21 2011

KCC

KCC WICHITA

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 R Ramsay
Title: President Date: 12/19/2011

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 12.21.11 - 12.21.12
 Confidential Release Date:
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NJ Date: 12-28-11

Operator Name: H&C Oil Operating, Inc. Lease Name: Schamberger Well #: 11-1
 Sec. 11 Twp. 9 S. R. 25 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:	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>2246</td> <td>+302</td> </tr> <tr> <td>Topeka</td> <td>3630</td> <td>-1082</td> </tr> <tr> <td>Heebner</td> <td>3845</td> <td>-1297</td> </tr> <tr> <td>Toronto</td> <td>3869</td> <td>-1321</td> </tr> <tr> <td>Lansing</td> <td>3887</td> <td>-1339</td> </tr> <tr> <td>BKC</td> <td>4101</td> <td>-1553</td> </tr> </table>	Name	Top	Datum	Anhydrite	2246	+302	Topeka	3630	-1082	Heebner	3845	-1297	Toronto	3869	-1321	Lansing	3887	-1339	BKC	4101	-1553
Name	Top	Datum																				
Anhydrite	2246	+302																				
Topeka	3630	-1082																				
Heebner	3845	-1297																				
Toronto	3869	-1321																				
Lansing	3887	-1339																				
BKC	4101	-1553																				

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#	275	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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (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)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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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. 133

Date	12-3-11	Sec.	11	Twp.	9	Range	25	County	Graham	State	Kansas	On Location		Finish	8:30 AM
Lease	Schamberger	Well No.	11-1			Location St. Peter SW SE Ninto									
Contractor	American Eagle Rig 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	Plug							Charge To H&C O.I.							
Hole Size	9 7/8							T.D. 445							
Csg.								Depth							
Tbg. Size								Depth							
Tool								Depth							
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace							
										The above was done to satisfaction and supervision of owner agent or contractor.					
										Cement Amount Ordered 205 gal/40 46/40 46/40 46/40					

EQUIPMENT

Pumptrk	5	No.	Cement Helper Steve	Common	123
Bulktrk	13	No.	Driver Cory	Poz. Mix	82
Bulktrk		No.	Driver Doug	Gel.	?

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 50#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
1st Plug @ 2265	CFL-117 or CD110 CAF 38
	Sand
	Handling 2/2
2nd " " 1345	Mileage

FLOAT EQUIPMENT

3rd " " 325	Guide Shoe
	Centralizer
4th " " 40	Baskets
	AFU Inserts
Rat Hole	Float Shoe
	Latch Down

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88 Wood Fly	
Pumptrk Charge	plug
Mileage	27

Signature: <i>Bradford Fisher</i>	CONFIDENTIAL	Tax
	DEC 21 2011	Discount
		Total Charge

KCC

QUALITY OILWELL CEMENTING, INC.

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

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

No. 008

Date	11-25-11	Sec.		Twp.		Range		County	Graham	State	KS	On Location		Finish	11:30 PM
Lease	Schamberger	Well No.	11-1		Location Wakeeney, N to Red Line W to										
Contractor	America Eagle				Owner ST Peter Rd 3.1 N 1/2 E										
Type Job	Surface				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.										
Hole Size	12 1/4		T.D.	278		Charge To NYC									
Csg.	8 3/8		Depth	278		Street									
Tbg. Size			Depth			City									
Tool			Depth			State									
Cement Left in Csg.			Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace			Cement Amount Ordered 160 3Y2									

EQUIPMENT

Pumptrk	9 No.	Cementer	Dave	Common	160
		Helper			
Bulktrk	14 No.	Driver	Jason	Poz. Mix	
		Driver			
Bulktrk	1 No.	Driver	Coody	Gel.	3
		Driver		Calcium	6

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
	Sand
	Handling 169
	Mileage

Cement Cr

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

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Pumptrk Charge Surface
Mileage 27

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21 2012

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Bradford Rubin
Signature

Tax
Discount
Total Charge

MP1 # 15.065.23789.00.00

H&C Oil Operating, Inc.

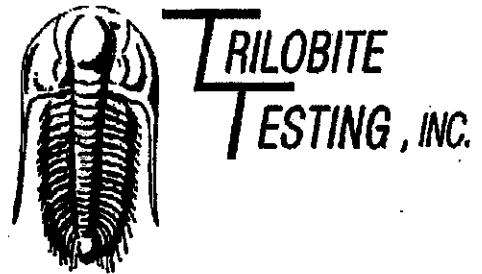
11-9s-25w Graham,KS

Shamberger #11-1

DST # 1

LKC "H-K"

2011.12.01



DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Shamberger #11-1

11-9s-25w Graham,KS

Start Date: 2011.12.01 @ 18:30:00

End Date: 2011.12.02 @ 00:53:00

Job Ticket #: 45537 DST #: 1

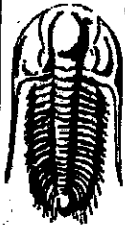
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DEC 21 2011
KCC WICHITA**

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

11-9s-25w Graham,KS

PO Box 86
Plainville, KS 67663

Shamberger #11-1

Job Ticket: 45537

DST#: 1

ATTN: Marc Downing

Test Start: 2011.12.01 @ 18:30:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:37:00

Time Test Ended: 00:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: **4000.00 ft (KB) To 4088.00 ft (KB) (TVD)**

Reference Elevations: 2548.00 ft (KB)

Total Depth: 4088.00 ft (KB) (TVD)

2543.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 23.63 psig @ 4001.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.01

End Date: 2011.12.02

Last Calib.: 2011.12.02

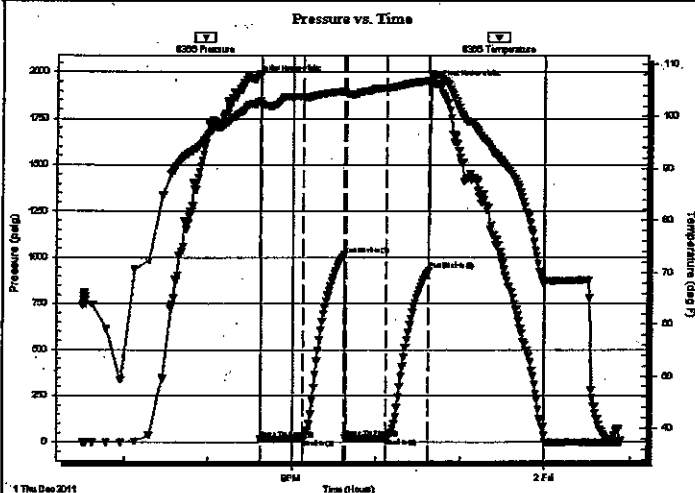
Start Time: 18:30:05

End Time: 00:52:59

Time On Btm: 2011.12.01 @ 20:33:00

Time Off Btm: 2011.12.01 @ 22:42:00

TEST COMMENT: 30 - IF: 1/2" Blow at open, built to 1", dying back at 15 min., 1/8" blow at close
30 - IS: No blow back (Diesel in Bucket)
30 - FF: Blow built to 1/4" in 10 min., blow stayed around 1/4" through open
30 - FS: No blow back



PRESSURE SUMMARY

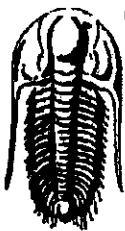
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.01	102.38	Initial Hydro-static
4	17.78	102.41	Open To Flow (1)
35	20.12	103.65	Shut-In(1)
64	1017.90	104.80	End Shut-In(1)
65	21.43	104.38	Open To Flow (2)
94	23.63	105.42	Shut-In(2)
125	933.96	106.77	End Shut-In(2)
129	1935.93	107.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
18.00	Mud 100%	0.25

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

11-9s-25w Graham,KS

PO Box 86
Plainville, KS 67663

Shamberger #11-1

Job Ticket: 45537

DST#: 1

ATTN: Marc Downing

Test Start: 2011.12.01 @ 18:30:00

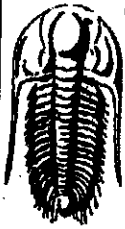
Tool Information

Drill Pipe:	Length: 3999.00 ft	Diameter: 3.80 inches	Volume: 56.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4000.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3985.00	
Hydraulic tool	5.00			3990.00	
Packer	5.00			3995.00	20.00 Bottom Of Top Packer
Packer	5.00			4000.00	
Stubb	1.00			4001.00	
Recorder	0.00	8366	Inside	4001.00	
Recorder	0.00	8320	Outside	4001.00	
Perforations	20.00			4021.00	
Blank Spacing	64.00			4085.00	
Bullnose	3.00			4088.00	88.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

11-9s-25w Graham, KS

PO Box 86
Plainville, KS 67663

Shamberger #11-1

Job Ticket: 45537

DST#: 1

ATTN: Marc Downing

Test Start: 2011.12.01 @ 18:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 1200.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
18.00	Mud 100%	0.252

Total Length: 18.00 ft Total Volume: 0.252 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

