

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

9/27/12

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

ORIGINAL

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

API No. 15 - 065-23760-00-00
Spot Description: _____
W2_W2_SE Sec. 25 Twp. 9 S. R. 25 East West
1,320 Feet from North / South Line of Section
2,310 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Brungardt Well #: 25-1
Field Name: Dreil
Producing Formation: none
Elevation: Ground: 2541 Kelly Bushing: 2546
Total Depth: 4158 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 254 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.

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 #: _____

08/19/2011	08/25/2011	08/26/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: _____ ppm Fluid volume RECEIVED bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: SEP 29 2011
Operator Name: KCC WICHITA
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____
CONFIDENTIAL
SEP 27 2012

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: 09/27/2011

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 9/27/11 - 9/27/12
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NJ Date: 10-5-11

Operator Name: H & C Oil Operating, Inc. Lease Name: Brungardt Well #: 25-1
 Sec. 25 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: Microresistivity log, Borehole compensated sonic log, Dual induction log, Dual compensated porosity 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>2206</td> <td>+340</td> </tr> <tr> <td>Base Anhydrite</td> <td>2243</td> <td>+303</td> </tr> <tr> <td>Topeka</td> <td>3630</td> <td>-1084</td> </tr> <tr> <td>Heebner</td> <td>3848</td> <td>-1302</td> </tr> <tr> <td>Toronto</td> <td>3870</td> <td>-1324</td> </tr> <tr> <td>LKC</td> <td>3878</td> <td>-1332</td> </tr> <tr> <td>BKC</td> <td>4114</td> <td>-1568</td> </tr> </tbody> </table>	Name	Top	Datum	Top Anhydrite	2206	+340	Base Anhydrite	2243	+303	Topeka	3630	-1084	Heebner	3848	-1302	Toronto	3870	-1324	LKC	3878	-1332	BKC	4114	-1568
Name	Top	Datum																							
Top Anhydrite	2206	+340																							
Base Anhydrite	2243	+303																							
Topeka	3630	-1084																							
Heebner	3848	-1302																							
Toronto	3870	-1324																							
LKC	3878	-1332																							
BKC	4114	-1568																							

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23	254	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

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: <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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.T

Phone 785-483-2025

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

No. 5327

Cell 785-324-1041

Date	8-19-11	Sec. 25	Twp. 9	Range 25	County	Corralton KS	State	On Location	Finish
Lease	Brongard Brongard	Well No.	25-1		Location	Wakarusa Redline 10w 160' @ 21' into			
Contractor	American Eagle #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				Hole Size	12 1/4	T.D.	257	
Csg.	8 5/8				Depth	257		Charge To	H/A @
Tbg. Size					Depth				
Tool					Depth				
Cement Left in Csg.	15'				Shoe Joint	The above was done to satisfaction and supervision of pwner agent or contractor.			
Meas Line					Displace	15' / 4.136		Cement Amount Ordered	160 lbom 3 1/2 gal 2 1/2 gal

EQUIPMENT

Pumptrk	9	No.	Cementer	Craig	Common	160
			Helper			
Bulktrk		No.	Driver	Paul	Poz. Mix	
			Driver			
Bulktrk	14	No.	Driver	Greg	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
8 5/8 on bottom. Est Circulation.	Sand
Mix 1100 SIC & Displace.	Handling 168
Cement Circulated	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

RECEIVED
SEP 29 2011
KGC WICHITA

Pumptrk Charge	Surface	Tax	
Mileage	32	Discount	
Signature	<i>Bradford Baker</i>	Total Charge	

CONFIDENTIAL

SEP 27 2012

KGC

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D

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

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

No. 5330

Date	8-26-11	Sec. 25	Twp. 9	Range 25	County Graham	State KS	On Location	Finish 4:30 a.m.
Lease	Bruggart	Well No.	25-1	Location Wakarusa Rolling 10 1/2w Ninto				
Contractor	American Eagle #3				Owner			
Type Job	Retail Plug				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	T.D. 4158				Charge To H/C			
Csg.	Depth				Street			
Tbg. Size	Depth				City State			
Tool	Depth				City 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 205 60/40 4 1/2 1 1/2 1/2			

EQUIPMENT

Pumptrk	5	No.	Cementer	Chris	Common	123
			Helper			
Bulktrk		No.	Driver	Cory	Poz. Mix	82
			Driver			
Bulktrk	10	No.	Driver	Michael	Gei.	7
			Driver			

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole 30SK	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 50#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
1st 2235 255K	CFL-117 or CD110 CAF 38
2nd 1340 100SK	Sand
3rd 305 40SK	Handling 2/2
4th 40' 10SK	Mileage

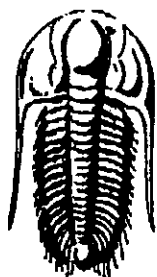
FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
THANKS!	KCC
	Pumptrk Charge plug
	Mileage 32
Signature: Brad Parker	KCC WICHITA
	Tax
	Discount
	Total Charge

CONFIDENTIAL

SEP 27 2012

RECEIVED
SEP 29 2011



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**
PO Box 86
Plainville KS 67663+0086

ATTN: Charles R Ramsay

25-9s-25w-Graham,KS

Brungardt #25-1

Start Date: 2011.08.23 @ 10:30:38
End Date: 2011.08.23 @ 17:28:08
Job Ticket #: 039741 DST #: 1

CONFIDENTIAL

SEP 27 2012

KCC

**RECEIVED
SEP 29 2011
KCC WICHITA**

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

H&C Oil Operating

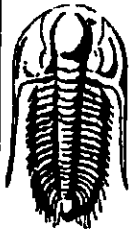
Brungardt #25-1

25-9s-25w-Graham,KS

DST # 1

LKC-C

2011.08.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating

Brungardt #25-1

PO Box 86
Rainville KS 67663+0086

25-9s-25w-Grahaman,KS

ATTN: Charles R Ramsay

Job Ticket: 039741 DST#: 1

Test Start: 2011.08.23 @ 10:30:38

GENERAL INFORMATION:

Formation: **LKC-C**

Deviated: **No** Whipstock: ft (KB)

Time Tool Opened: 12:38:38

Time Test Ended: 17:28:08

Test Type: **Conventional Bottom Hole**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **3909.00 ft (KB) To 3927.00 ft (KB) (TVD)**

Total Depth: **3927.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2546.00 ft (KB)**

2541.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8321

Inside

Press@RunDepth: **52.99 psig @ 3910.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.08.23**

End Date:

2011.08.23

Last Calib.: **2011.08.23**

Start Time: **10:30:39**

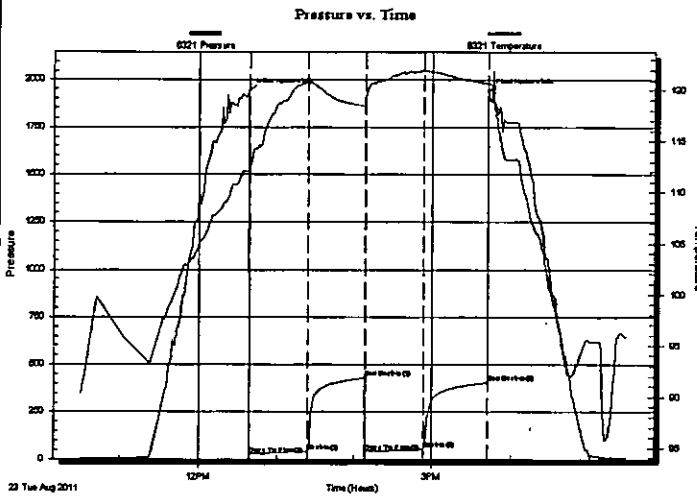
End Time:

17:28:08

Time On Btm: **2011.08.23 @ 12:38:08**

Time Off Btm: **2011.08.23 @ 15:42:38**

TEST COMMENT: IFF-Weak blow built to 3 1/4 in
ISI-Dead no blow back
FFP-Weak blow built to 2 in
FSI-Dead no blow back



PRESSURE SUMMARY

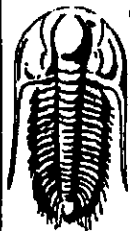
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.85	112.15	Initial Hydro-static
1	26.72	111.82	Open To Flow (1)
46	41.37	120.64	Shut-In(1)
90	429.78	118.45	End Shut-In(1)
91	41.98	118.56	Open To Flow (2)
135	52.99	121.99	Shut-In(2)
184	404.15	120.67	End Shut-In(2)
185	1937.61	120.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	WM 50%V50%M	0.35
42.00	MM with oil spots 5%M95%W	0.59

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

Brungardt #25-1

PO Box 86
Plainville KS 67663+0086

25-9s-25w-Graham,KS

Job Ticket: 039741

DST#: 1

ATTN: Charles R Ramsay

Test Start: 2011.08.23 @ 10:30:38

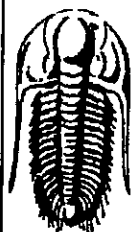
Tool Information

Drill Pipe:	Length: 3913.00 ft	Diameter: 3.80 inches	Volume: 54.89 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 54.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3909.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			3890.00	
Shut In Tool	5.00			3895.00	
Hydraulic tool	5.00			3900.00	
Packer	4.00			3904.00	20.00 Bottom Of Top Packer
Packer	5.00			3909.00	
Stubb	1.00			3910.00	
Recorder	0.00	8321	Inside	3910.00	
Recorder	0.00	8737	Outside	3910.00	
Perforations	14.00			3924.00	
Bullnose	3.00			3927.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

Brungardt #25-1

PO Box 86
Plainville KS 67663+0086

25-9s-25w-Graham, KS

Job Ticket: 039741

DST#: 1

ATTN: Charles R Ramsay

Test Start: 2011.08.23 @ 10:30:38

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 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
25.00	WM 50%W 50%M	0.351
42.00	MM with oil spots 5%M 95%W	0.589

Total Length: 67.00 ft Total Volume: 0.940 bbl

Num Fluid Samples: 0

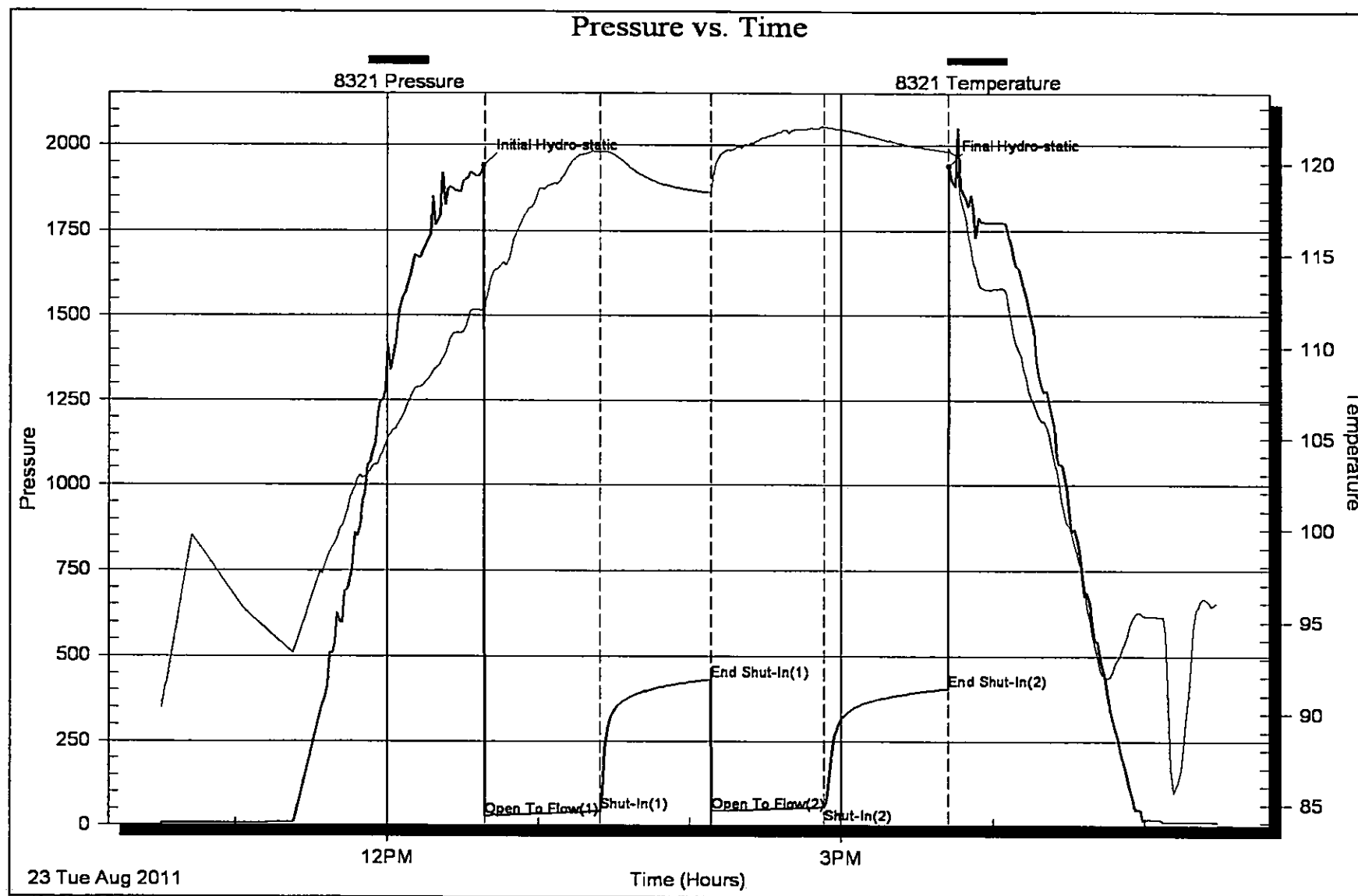
Num Gas Bombs: 0

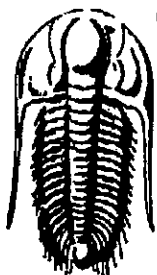
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**
PO Box 86
Plainville KS 67663+0086

ATTN: Charles R Ramsay

25-9s-25w-Gramhan,KS

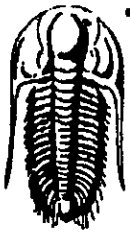
Brungardt #25-1

Start Date: 2011.08.24 @ 11:18:49

End Date: 2011.08.24 @ 17:03:19

Job Ticket #: 039742 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

TOOL DIAGRAM

H&C Oil Operating

Brungardt #25-1

PO Box 86
Plainville KS 67663+0086

25-9s-25w-Graham,KS

Job Ticket: 039742

DST#: 2

ATTN: Charles R Ramsay

Test Start: 2011.08.24 @ 11:18:49

Tool Information

Drill Pipe:	Length: 4006.00 ft	Diameter: 3.80 inches	Volume: 56.19 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: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 56.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4028.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			4009.00	
Shut In Tool	5.00			4014.00	
Hydraulic tool	5.00			4019.00	
Packer	4.00			4023.00	20.00 Bottom Of Top Packer
Packer	5.00			4028.00	
Stubb	1.00			4029.00	
Perforations	3.00			4032.00	
Change Over Sub	1.00			4033.00	
Recorder	0.00	8321	Inside	4033.00	
Recorder	0.00	8737	Outside	4033.00	
Drill Pipe	30.00			4063.00	
Change Over Sub	1.00			4064.00	
Perforations	5.00			4069.00	
Bullnose	3.00			4072.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

Brungardt #25-1

PO Box 86
Rainville KS 67663+0086

25-9s-25w-Graham, KS

Job Ticket: 039742 DST#: 2

ATTN: Charles R Ramsay

Test Start: 2011.08.24 @ 11:18:49

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

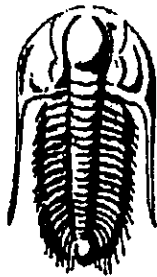
Length ft	Description	Volume bbl
1.00	MUD	0.005

Total Length: 1.00 ft Total Volume: 0.005 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**

PO Box 86
Plainville KS 67663+0086

ATTN: Charles R Ramsay

25-9s-25w-Gramhan,KS

Brungardt #25-1

Start Date: 2011.08.25 @ 15:00:08

End Date: 2011.08.25 @ 22:10:38

Job Ticket #: 039743 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&C Oil Operating

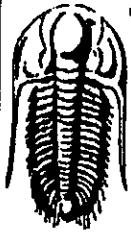
Brungardt #25-1

25-9s-25w-Gramhan,KS

DST # 3

LKC-E

2011.08.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating

Brungardt #25-1

PO Box 86
Plainville KS 67663+0086

25-9s-25w-Graham,KS

Job Ticket: 039743

DST#: 3

ATTN: Charles R Ramsay

Test Start: 2011.08.25 @ 15:00:08

GENERAL INFORMATION:

Formation: **LKC-E**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 16:54:38

Time Test Ended: 22:10:38

Test Type: **Conventional Straddle**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **3962.00 ft (KB) To 3972.00 ft (KB) (TVD)**

Total Depth: **4158.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2546.00 ft (KB)**

2541.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8321

Inside

Press@RunDepth: **113.39 psig @ 3963.00 ft (KB)**

Start Date: **2011.08.25**

End Date:

2011.08.25

Capacity: **8000.00 psig**

Last Calib.: **2011.08.25**

Start Time: **15:00:09**

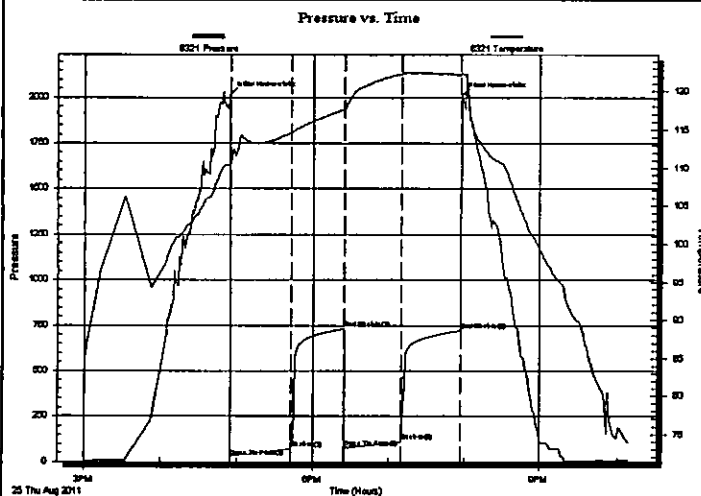
End Time:

22:09:38

Time On Btm: **2011.08.25 @ 16:54:08**

Time Off Btm: **2011.08.25 @ 19:57:38**

TEST COMMENT: IFF-Good blow BOB in 38 min
ISI-Dead no blow back
FFP-Good blow BOB in 42 min
FSI-Dead no blow back



PRESSURE SUMMARY

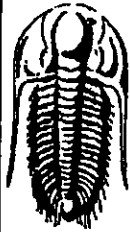
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.80	110.48	Initial Hydro-static
1	24.74	110.52	Open To Flow (1)
49	72.19	114.62	Shut-In(1)
90	732.04	117.57	End Shut-In(1)
91	76.99	117.65	Open To Flow (2)
136	113.39	122.27	Shut-In(2)
183	721.40	122.18	End Shut-In(2)
184	2009.42	122.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MMW with oil spots 15%MB5%W	1.47
48.00	MMW with oil spots 20%WB0%M	0.67
20.00	Free Oil	0.28
0.00	124 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

Brungardt #25-1

PO Box 86
Rainville KS 67663+0086

25-9s-25w-Graham,KS

Job Ticket: 039743

DST#: 3

ATTN: Charles R Ramsay

Test Start: 2011.08.25 @ 15:00:08

Tool Information

Drill Pipe:	Length: 3942.00 ft	Diameter: 3.80 inches	Volume: 55.30 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 55.45 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3962.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3972.00 ft			
Interval between Packers:	10.00 ft			
Tool Length:	217.00 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			3943.00		
Shut In Tool	5.00			3948.00		
Hydraulic tool	5.00			3953.00		
Packer	4.00			3957.00	20.00	Bottom Of Top Packer
Packer	5.00			3962.00		
Stubb	1.00			3963.00		
Recorder	0.00	8321	Inside	3963.00		
Recorder	0.00	8737	Outside	3963.00		
Perforations	5.00			3968.00		
Blank Off Sub	1.00			3969.00		
Stubb	3.00			3972.00	10.00	Tool Interval
Packer	1.00			3973.00		
Stubb	1.00			3974.00		
Change Over Sub	1.00			3975.00		
Recorder	0.00	8679	Below	3975.00		
Drill Pipe	156.00			4131.00		
Change Over Sub	1.00			4132.00		
Perforations	24.00			4156.00		
Bullnose	3.00			4159.00	187.00	Bottom Packers & Anchor

Total Tool Length: 217.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

Brungardt #25-1

PO Box 86
Plainville KS 67663+0086

25-9s-25w-Graham,KS

ATTN: Charles R Ramsay

Job Ticket: 039743 **DST#: 3**

Test Start: 2011.08.25 @ 15:00:08

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 1500.00 ppm
Filter Cake: inches

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

Oil API: 33 deg API
Water Salinity: 55000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MMV with oil spots 15%M85%W	1.466
48.00	VM with oil spots 20%W80%M	0.673
20.00	Free Oil	0.281
0.00	124 GIP	0.000

Total Length: 192.00 ft Total Volume: 2.420 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

