



KANSAS CORPORATION COMMISSION 1065697
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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1065697

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

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

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				

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: 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: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Newton 2
Doc ID	1065697

All Electric Logs Run

Cement Bond Log
Dual Induction Log
Compensated Density / Neutron PE Log
Geological Log

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Newton 2
Doc ID	1065697

Tops

Name	Top	Datum
Heebner	3734	-2123
Lansing Group	3954	-2343
Kansas City	4226	-2615
Base Kansas City	4448	-2837
Pawnee	4563	-2952
Mississippi	4627	-3016
Viola	4960	-3349
Simpson	5052	-3441
Simpson Ss.	5068	-3457
Total Depth	5173	



PAGE 1 of 1	CUSTOMER NO 1000719	INVOICE DATE 02/15/2011
INVOICE NUMBER 1718 - 90523540		

Pratt (620) 672-1201
 B CHIEFTAIN OIL COMPANY
 I PO Box: 124
 L KIOWA
 L KS US. 67070
 T
 O ATTN:

J LEASE NAME Newton 2
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40284364	27463		Net - 30 days	03/17/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 02/12/2011 to 02/12/2011</i>				
0040284364				
171803473A Cement-New Well Casing/Pi 02/12/2011 Top Off Hole				
Common	50.00	EA	11.20	559.93 T
Calcium Chloride	129.00	EA	0.73	94.80 T
Cement Pumper, Addtl hrs on location	1.00	HR	349.95	349.95
Unit Mileage Charge-Pickups, Vans & Cars	45.00	HR	2.97	133.85
Heavy Equipment Mileage	90.00	MI	4.90	440.93
Proppant and Bulk Delivery Charges	97.00	MI	1.12	108.62
Blending & Mixing Service Charge	50.00	MI	0.98	48.99
Supervisor	1.00	HR	122.48	122.48

ENTERED
 FEB 23 2011
 9121 BL

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	1,859.55
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	47.80
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	1,907.35
DALLAS, TX 75284-1903	MIDLAND, TX 79702		

Order # 3472 Station # 17833 Case # 8777 Depth 333 County Barber State OK
 Type Job CWS 8 3/8 S.W.C. Formation Legal Description 18 33-1

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 2 7/8	Tubing Size	Shots/Ft		Acid 300 lbs 60/40 POC		RATE	PRESS	ISIP
Depth 333	Depth	From	To	Pre Pad 27%	Max			5 Min.
Volume	Volume	From	To	Pad 320 gal	Min			10 Min.
Max Press 500	Max Press	From	To	Frac 1/4" frac col 150 lbs	Avg			15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 315	Packer Depth	From	To	Flush 20	Gas Volume			Total Load

Customer Representative Scott Station Manager Dave Scott Treater Steve Orlando

Service Units	Driver Names
2728 2746 19833 17862	Orlando Veach Winger

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
1:00 AM					On location Safety Meeting
					Rue 371 2 7/8 24" casing
					Casing on bottom
					Break circ w/ H ₂ O
5:35	200		3	5	H ₂ O ahead
5:36	180		64.6	5	Mix 300 lbs 60/40 POC @ 14.3"/min
					Shut Down
					Release plug
5:55	0		0	11	Start H ₂ O Displacement
5:58	200		17	11	Concent TO Surface
6:00 AM	250		20	11	Plug Down
					Circulation thru job
					Circulated 8 bbl Top of
					Job Complete
					Thank, Steve



PAGE 1 of 1	ST NO 1000719	INVOICE DATE 02/25/2011
INVOICE NUMBER 1718 - 90532373		

Pratt (620) 672-1201
 B CHIEFTAIN OIL COMPANY
 I PO Box: 124
 L KIOWA
 L KS US 67070
 T
 O ATTN:

J LEASE NAME Newton 2
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40288835	27463		Net - 30 days	03/27/2011
<p><i>For Service Dates: 02/24/2011 to 02/24/2011</i></p> <p>0040288835</p> <p>171803705A Cement-New Well Casing/Pi 02/24/2011 5 1/2" Longstring</p> <p>AA2 Cement 255.00 EA 12.75 3,251.24 T De-foamer (Powder) 48.00 EA 3.00 144.00 T Salt (Fine) 1,264.00 EA 0.38 474.00 T Gas-Blok 240.00 EA 3.86 927.00 T FLA-322 192.00 EA 5.63 1,080.00 T Gilsonite 1,275.00 EA 0.50 640.69 T CS-1 L KCL Substitute 5.00 EA 26.25 131.25 T Mud Flush 500.00 EA 0.65 322.50 T Super Flush II 500.00 EA 1.15 573.75 T Latch Down Plug & Baffle 5 1/2" (Blue) 1.00 EA 300.00 300.00 Auto Fill Float Shoe 5 1/2" (Blue) 1.00 EA 270.00 270.00 Turbolizer 5 1/2" (Blue) 7.00 EA 82.50 577.50 5 1/2" Basket (Blue) 2.00 EA 217.50 435.00 Unit Mileage Charge-Pickups, Vans & Cars 50.00 HR 3.19 159.38 Heavy Equipment Mileage 100.00 MI 5.25 525.00 Proppant and Bulk Delivery Charges 600.00 MI 1.20 720.00 Depth Charge; 5001-6000' 1.00 HR 2,160.00 2,160.00 Blending & Mixing Service Charge 255.00 MI 1.05 267.75 Plug Container Utilization Charge 1.00 EA 187.50 187.50 Supervisor 1.00 HR 131.25 131.25</p>				

ENTERED
 MAR 08 2011
 9121 BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	13,277.81
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	550.74
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	13,828.55
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 03705 A

DATE _____ TICKET NO. _____

DATE OF JOB: 2-24-11	DISTRICT: Pratt	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER: Chieftain Oil		LEASE: Newton		WELL NO.: 2			
ADDRESS:		COUNTY: Barber		STATE: KS			
CITY:		STATE:		SERVICE CREW: Orlando, Mitchell, Fenwick			
AUTHORIZED BY:		JOB TYPE: CNW-5/8 L.S.					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME
27283	1						2-23-11 AM 7:00
27463	1					ARRIVED AT JOB	2-23-11 AM 9:30
19959/21010	1					START OPERATION	2-24-11 AM 5:15
						FINISH OPERATION	2-24-11 AM 6:15
						RELEASED	2-24-11 AM 6:45
						MILES FROM STATION TO WELL	50

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	255		4335 00
CC105	Defoamer	Lb	48		192 00
CC111	Salt	Lb	1264		632 00
CC115	Gas-Blok	Lb	240		1236 00
CC129	FLA-322	Lb	192		1440 00
CC201	Gilsonite	Lb	1275		854 25
CF167	Latch Down Plug + Baffle 5/8"	ea	1		400 00
CF1251	Auto Fill Shut Shoe 5/8"	ea	1		360 00
CF1651	Turbolizer 15 5/8"	ea	7		770 00
CF1901	Basket 5/8"	ea	2		580 00
C704	KCL Substitute	gal	5		175 00
CC151	Mod Flush	gal	500		430 00
CC155	Super Flush II	gal	500		765 00
E100	Pickup Mileage	m.	50		212 50
E101	Heavy Equipment Mileage	m.	100		700 00
E113	Bulk Delivery	Tm	600		960 00
CE206	Depth Charge 5001-6000'	ea	1		2880 00
CE240	Cement Service Charge	SK	255		357 00
CE504	Plug Container	ea	1		250 00
5003	Service Supervisor	ea	1		175 00
				SUB TOTAL	13277 81

CHEMICAL / ACID DATA:		

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: Steve Orlando
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

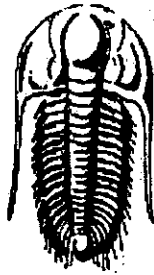
Customer Cherokee Co.	Lease No.	Date 2-23-11
Lease Newman	Well # 2	
Field Order # 3705	Station Pratt	Casing 5115
		Depth 5120
Type Job CNS - 5115	Formation	County Barber
		State KS
		Legal Description 18-33-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5120	5120			Pre Pad			5 Min.	
Depth	Depth	From	To	Pad	Max		10 Min.	
Volume	Volume	From	To	Frac	Min		15 Min.	
Max Press	Max Press	From	To		Avg			
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Ker M... ..	Station Manager D... ..	Treater J... ..
--	----------------------------	--------------------

Service Units	7722	2720	177	5160					
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:30 AM					Wellhead - 1000 ft
					Run 1200 ft 37 1/2" pipe
					Conductor 4-5 6-11-13 14-16
					Bayonet 2-4 11-17-10
					Shower 21.73 25 1/2 30 min
					Conductor Section
					Shower w/11 14 1/2
5:38	250		12	5	Mudlogging
5:51	250		5	5	Mudlogging
5:57	250		12	5	Super 1000 II
5:59	250		5	5	Mudlogging
5:59	250		57	5	Mudlogging w/ Acid 1400 ft
					Shower 21.73 25 1/2 30 min
					Run 1100 ft w/11 14 1/2
6:10	1100		75	6	Line pressure 1100
6:12	700		93	7	Shower 21.73
6:15 AM	1600		102.5	4	Run 1100 ft
					Run 1100 ft w/11 14 1/2
					Job Complete 7:15 PM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co. Inc.**

605 S.6th, P.O.Box 124
Kiowa KS 67070

ATTN: Bob Stolze

18-33s-10w Barber KS

Newton #2

Start Date: 2011.02.21 @ 21:37:22

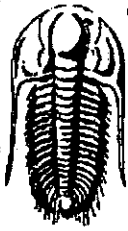
End Date: 2011.02.22 @ 05:23:22

Job Ticket #: 041608 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chieftain Oil Co. Inc.
605 S.6th,P.O.Box 124
Kiowa KS 67070
ATTN: Bob Stolze

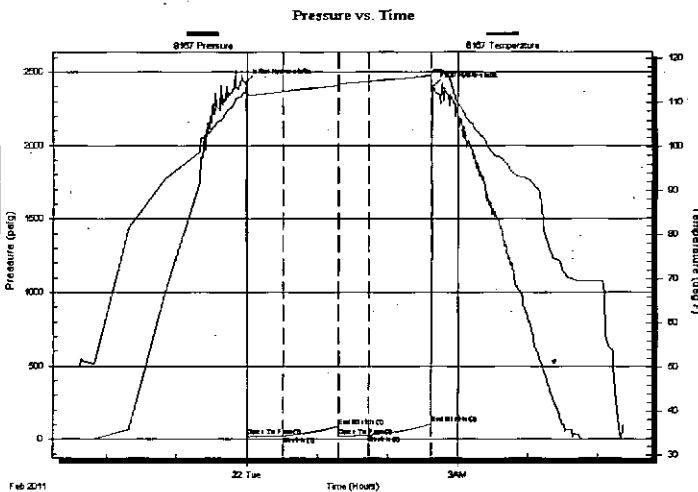
Newton #2
18-33s-10w Barber KS
Job Ticket: 041608 DST#: 1
Test Start: 2011.02.21 @ 21:37:22

GENERAL INFORMATION:

Formation: **Misener**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 23:59:22
Time Test Ended: 05:23:22
Test Type: **Conventional Bottom Hole**
Tester: **Gary Pevoteaux**
Unit No: **56**
Interval: **4936.00 ft (KB) To 4965.00 ft (KB) (TVD)**
Reference Elevations: **1611.00 ft (KB)**
Total Depth: **4965.00 ft (KB) (TVD)** **1601.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **10.00 ft**

Serial #: 8167 Inside
Press@RunDepth: **30.39 psig @ 4937.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.02.21** End Date: **2011.02.22** Last Calib.: **2011.02.22**
Start Time: **21:37:27** End Time: **05:23:21** Time On Btm: **2011.02.21 @ 23:58:22**
Time Off Btm: **2011.02.22 @ 02:38:22**

TEST COMMENT: IF:Weak blow . 1/2 2 1/2".
IS:No blow.
FF:Weak blow . 1/2 - 1 1/2".
FS:No blow.



PRESSURE SUMMARY

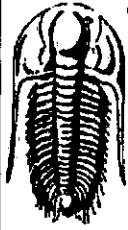
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2427.08	112.41	Initial Hydro-static
1	19.90	111.69	Open To Flow (1)
32	23.00	112.60	Shut-In(1)
79	89.36	113.96	End Shut-In(1)
80	20.07	114.00	Open To Flow (2)
105	30.39	114.90	Shut-In(2)
159	106.78	116.18	End Shut-In(2)
160	2401.55	117.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GCM/w few o specs 15%g 85%m	0.10
0.00	105 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc.

Newton #2

605 S.6th,P.O.Box 124
Kiowa KS 67070

18-33s-10w Barber KS

Job Ticket: 041608

DST#: 1

ATTN: Bob Stolze

Test Start: 2011.02.21 @ 21:37:22

Tool Information

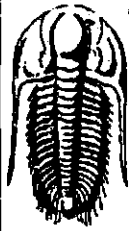
Drill Pipe:	Length: 4769.00 ft	Diameter: 3.80 inches	Volume: 66.90 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 73000.00 lb
		<u>Total Volume:</u>	<u>67.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4936.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4909.00	
Shut in tool	5.00			4914.00	
HMV	5.00			4919.00	
Jars	5.00			4924.00	
Safety Joint	3.00			4927.00	
Packer	4.00			4931.00	28.00 Bottom Of Top Packer
Packer	5.00			4936.00	
Stubb	1.00			4937.00	
Recorder	0.00	8167	Inside	4937.00	
Recorder	0.00	8370	Outside	4937.00	
Perforations	23.00			4960.00	
Bullnose	5.00			4965.00	29.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co. Inc.

Newton #2

605 S.6th,P.O.Box 124
Kiowa KS 67070

18-33s-10w Barber KS

Job Ticket: 041608

DST#: 1

ATTN: Bob Stolze

Test Start: 2011.02.21 @ 21:37:22

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:

3100 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GCM/w few o specs 15%g 85%m	0.098
0.00	105 ft.of GIP	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

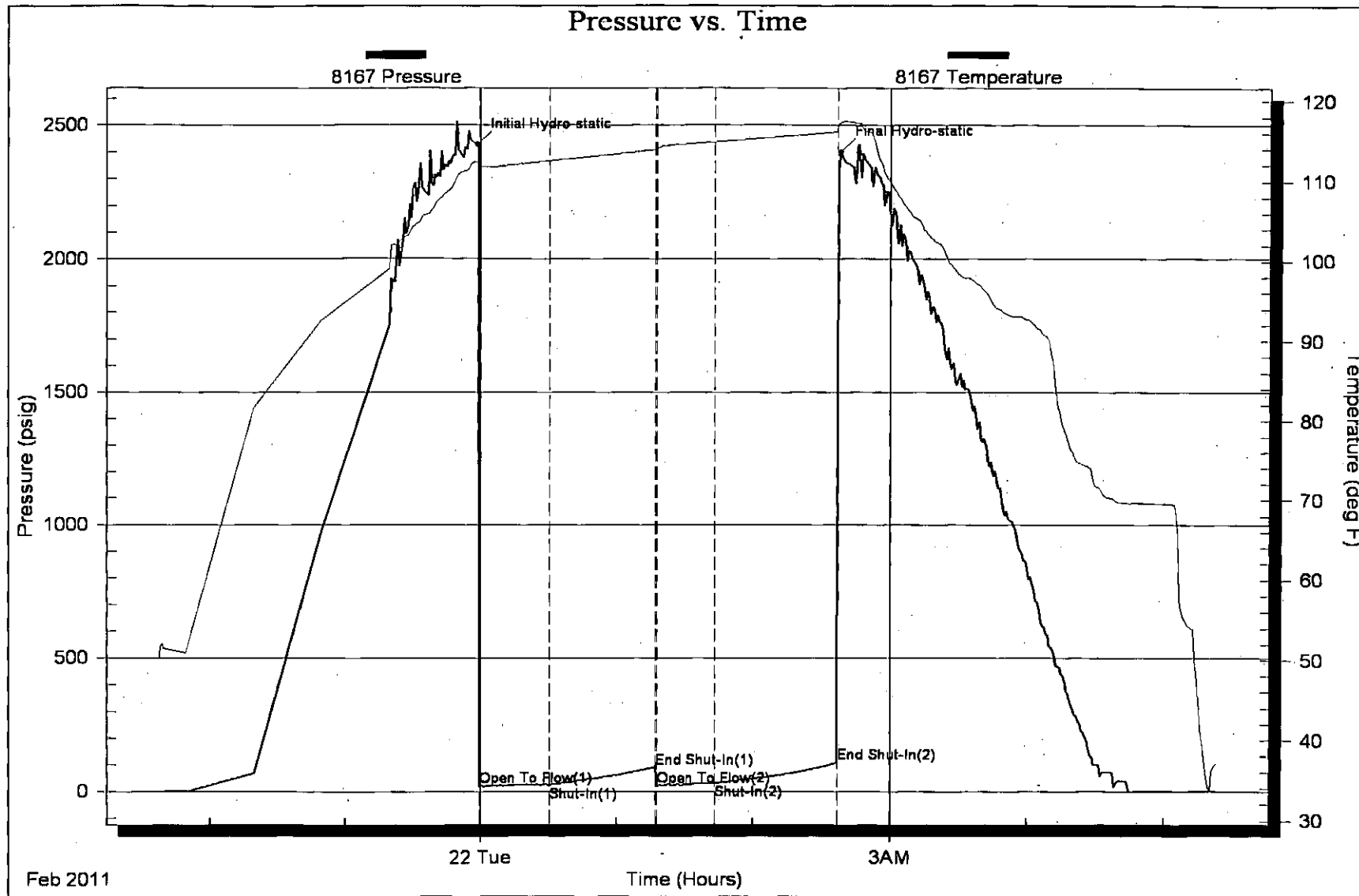
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



ROBERT STOLZLE
 CONSULTING PETROLEUM GEOLOGIST
 AAPG Cert # 3244
 6211 S. 231st ST.W. Goddard, KS 67062 - 9249 (316) 784 - 3400

DRILLING TIME AND SAMPLE LOG

OPERATOR: Chief Stein Drilling Co., Inc.
 LEASE: Newton WELL NO.: 2
 FIELD: Taffes
 LOCATION: 700' FNL, 630' FNL
 SEC.: 18 TWP.: 33S RANGE: 10W
 COUNTY: Barbour STATE: KS
 API NO.: 15007-23645

CONTRACTOR: Hande Drilling LLC
 COMMENCED: Feb 11, 2011, 6:00 am COMPLETED: 2/24/11
 ROTARY TOTAL DEPTH: 5170 LOG TOTAL DEPTH: 5173
 GEOLOGICAL SUPERVISION FROM: 3500' to: T.D.
 M.D.U.P. DEPTH: 3200 M.D. TYPE: Chemical Polymer

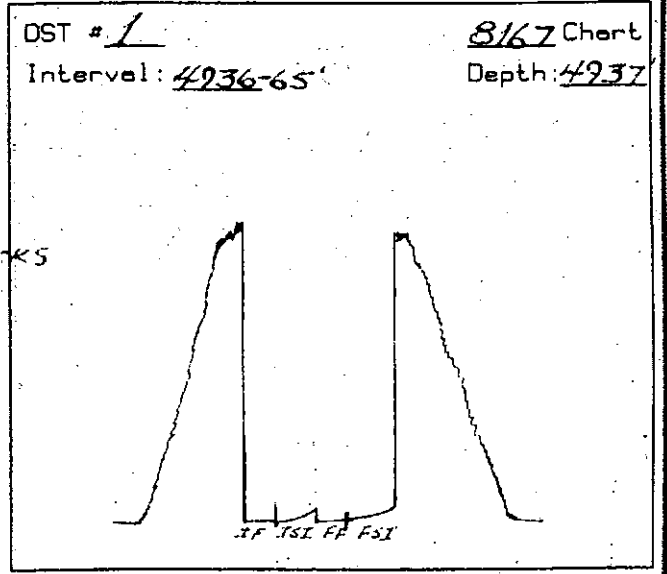
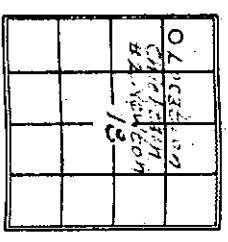
FORMATION	SAMPLE		LOG		STRUCTURAL COMPARISON
	TIP	SUBSEA	TIP	SUBSEA	
Heabhar shale	3733 (-2122)	3734 (-2123)	-2'		
Doughs shale	3763 (-2152)	3764 (-2153)	-4'		
Ladling Green	3954 (-2343)	3955 (-2344)	-5'		
Kansas shale	4128 (-2617)	4129 (-2618)	-2'		
Stark shale	4388 (-2877)	4390 (-2879)	-1'		
Barber shale	4447 (-2936)	4448 (-2937)	-0'		
Barber ls	4561 (-3050)	4563 (-3052)	-0'		
Miss Osage fm	4624 (-3113)	4627 (-3116)	+1'		
Kidderhook sh	4846 (-3335)	4850 (-3339)	-0'		
Chickanooga sh	4918 (-3407)	4918 (-3407)	-0'		
Viola fm	4962 (-3451)	4960 (-3449)	-2'		
Stinson fm	5051 (-3540)	5052 (-3541)	-0'		
Stinson ss	5066 (-3555)	5068 (-3557)	-2'		
Total Depth	5170	5173			

Reference Well for Structural Comparison: Chief Stein Drilling Co. 13-33S-111
 Comments and Recommendations: Recommend N. 33. Commercial

ELEVATIONS
 KB 1611
 GL 1601
 Measurements are all from KB

CASING RECORD
 SURFACE: 8 5/8" @ 336' circ.
 PRODUCTION: 5 1/2" @ 5170' w/ 225xx

WIRE LINE SURVEYS
 Superwell
 Services: Dual Induction and Compensated Density/Resistivity logs w/ Pressure Pa cerv



Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2427 psi	105' Gas
2. Initial Flow: Start	0	20 psi	20' Gas cut
3. Initial Flow: End	30	23 psi	Mud w/ Oil streaks
4. Initial Shut-in: End	45	89 psi	(15% gas)
5. Final Flow: Start	0	20 psi	
6. Final Flow: End	30	30 psi	Scrap 5.07
7. Final Shut-in: End	4.5	107 psi	Long to board
8. Final Hydrostatic		2402 psi	Deviation 1/4"

BHT: 116°F
 Rw: _____

DST # _____ ZONE: _____ Chart _____
 Interval: _____ Depth: _____

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		psi	
2. Initial Flow: Start		psi	
3. Initial Flow: End		psi	
4. Initial Shut-in: End		psi	
5. Final Flow: Start		psi	

DST # _____ ZONE: _____ Chart _____
 Interval: _____ Depth: _____

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		psi	
2. Initial Flow: Start		psi	
3. Initial Flow: End		psi	
4. Initial Shut-in: End		psi	
5. Final Flow: Start		psi	

7. Final Shut-in: End _____ psi _____
 8. Final Hydrostatic _____ psi _____
 BHT: _____
 Rw: _____

DST # _____ ZONE: _____
 INTERVAL: _____

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic	_____	_____ psi	_____
2. Initial Flow: Start	_____	_____ psi	_____
3. Initial Flow: End	_____	_____ psi	_____
4. Initial Shut-in: End	_____	_____ psi	_____
5. Final Flow: Start	_____	_____ psi	_____
6. Final Flow: End	_____	_____ psi	_____
7. Final Shut-in: End	_____	_____ psi	_____
8. Final Hydrostatic	_____	_____ psi	_____

BHT: _____
 Rw: _____

DST # _____ Chart _____
 Interval: _____ Depth: _____

ABBREVIATIONS USED

ROCK TYPES:

L - Limestone
 S - Shale
 SD - Sandstone
 SL - Siltstone
 C - Conglomerate
 Ch - Chert
 Qz - Quartzite
 G - Granite
 D - Dolomite
 Chk - Chalky

COLOR:

Wh - White
 Cr - Cream
 Cl - Clear
 R - Red
 Gr - Green
 GY - Gray
 Blk - Black
 M - Mottled

HARDNESS:

Sft - Soft
 M.Sft - Moderately soft
 Hrd - Hard
 V.Hrd - Very hard

FABRIC:

Fn.grn - Finegrained
 VFG - Very fine grained
 Med - Medium
 Co - Coarse
 Det - Detrital
 Fos - Fossiliferous
 Cr - Crystalline
 Mxln - Microcrystalline
 Ool - Oolitic
 Oom - Oomitic
 Mat - Matrix

OTHER TERMS:

fl - Fluorescence (of oil)
 min fl - mineral fluorescence
 pyr - pyritic
 glau - glauconitic
 carb - carbonaceous
 stn - stain (of oil)
 cut - oil cut
 AA - as above
 NSFOC - no stain, fluorescence, odor, or cut (of oil)
 empl - sample
 perm - permeability
 F.O - free oil
 vug - vugular
 tr - trace
 w/ - with

MODIFIERS:

gd - Good
 pr - poor
 ex - excellent
 v - very
 tr - trace
 occ - occasional
 vis - visible
 N - no
 gran - granular
 intergran - intergranular
 pp - pinpoint
 dd - dead
 gey - gassy

TEXTURE:

One - Dense
 Fly - Flaky
 Fri - Friable
 Earth - Earthy
 Hack - Hackly
 Fib - Fibrous
 Vit - Vitreous
 Vug - Vugular
 Mic - Micritic

OIL SHOWS

- Weak Oil Show
- Fair Oil Show
- Good Oil Show
- Excellent Oil Show

ROCK TYPE SYMBOLS

SHALE



CARBONACEOUS SHALE



QUARTZITE



SANDSTONE



LIMESTONE



SALT



OOBITIC LIMESTONE



DOLOMITE



ANHYDRITE



CHERT



GRANITE



LITHOLOGY	DRILLING TIME	GAS SHOWS		SAMPLE DESCRIPTIONS	REMARKS
		TOTAL GAS UNITS	CHROMATOGRAPH UNITS		

3750

3800

3850

3900

3950

1307307
899

550000

1600
012-899

Sh. A.A. w/ Sh. p. k. h. d. d. s. 1
carb. carbony
Fr. Ls. sm. - TAN, h. d. d. s. 1 VEG
MKN, MIC. NO NSFOC

Harbner Sh.
(-2122')

Sh. A.A. ess. carb.
Ls. cm. - TAN - G. q. v. h. d. d. s.
VEG XIN, Fr. Foss. NO NSFOC

Ls. A.A. NO NSFOC, Sh. A.A.
SS. q. v. h. d. d. s. 1 VEG
mod. - H. S. p. k. V. W. S. p. k.
NO NSFOC

Douglas Sh.
(-2152')

Sh. Ls. dr. q. v. m. s. h. d. s. 1
d. s. 1, carbony, acc. s. h. d. s. 1
Fr. SS. A.A. NO NSFOC
Fr. Ls. A.A. NO NSFOC

Sh. A.A.
SS. wh. - H. q. v. h. d. d. s. 1
Fr. VEG, mod. - W. S. p. k. mod.
W. carbony, Fr. Dr. V. S. p. k. NSFOC

Sh. + SS. A.A. NO NSFOC
Ls. cm. - TAN - h. d. d. s. 1
VEG - MKN, Fr. Foss. NO NSFOC

Sh. Ls. q. v. q. v. m. s. h. d. s. 1
Ls. cm. - TAN - h. d. d. s. 1 VEG
MKN, Foss. NO NSFOC

Sh. q. v. - q. v. q. v. m. s. h. d. s. 1
SS. wh. - H. q. v. h. d. d. s. 1
Fr. A. mod. - W. S. p. k. mod.
W. carbony, Fr. Dr. V. S. p. k. NSFOC
Fr. MICA, Dr. V. S. p. k. NSFOC

SS. A.A., Dr. V. S. p. k. NSFOC
Sh. q. v. - H. q. v. h. d. d. s. 1
Fr. Ls. TAN, h. d. d. s. 1 MKN, MIC.
NO NSFOC

SS. wh. - q. v. h. d. d. s. 1
W. mod. W. carbony, Fr. VEG
Mod. - W. S. p. k. mod. - H. q. v. h. d. d. s. 1
No V. S. p. k. NSFOC

Sh. dr. q. v. m. s. h. d. d. s. 1
Fr. Ls. TAN - TAN, h. d. d. s. 1
VEG - MKN, MIC, Fr. Foss. NO NSFOC

SS. A.A. micro. tria, Dr. V. S. p. k. NSFOC
Ls. cm. - TAN, h. d. d. s. 1 VEG, XIN
Fr. Foss. NO NSFOC
Sh. dr. q. v. m. s. h. d. d. s. 1

Jatan Ls.
(-2349')

Ls. cm. - TAN - h. d. d. s. 1
Fr. Foss. NO NSFOC

Lansing Group
(-2349')

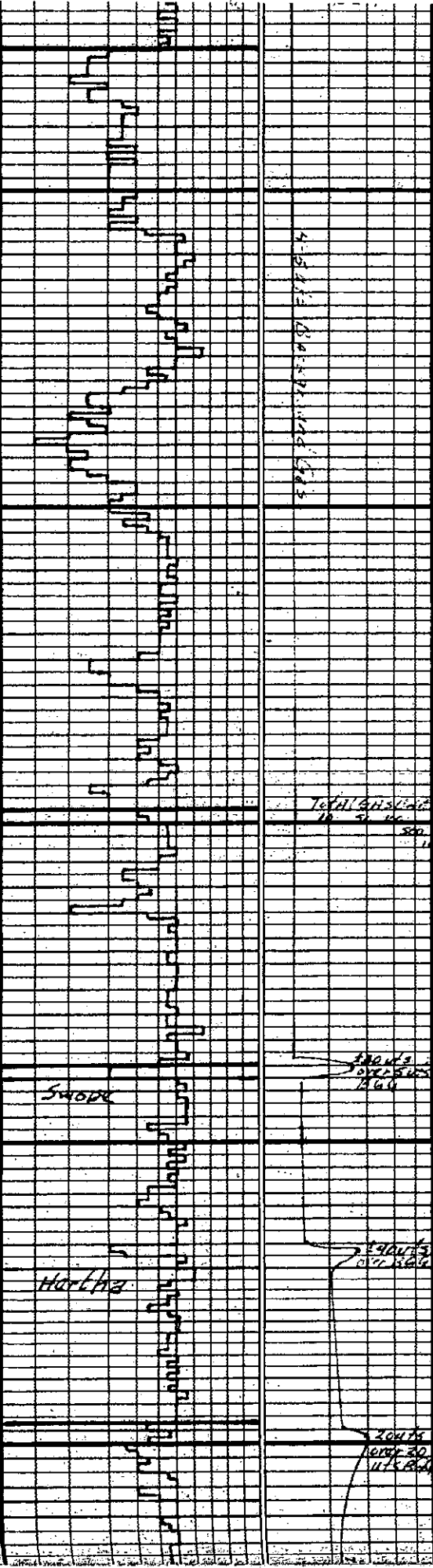
4250

4300

4350

4400

4450



Sh. silt. - tan. m. silt. - bed. dms.
 Ls. silt. - com. tan. bed. dms. VEG
 XIN - m. silt. - chik. - NO NSFOC

Kansas City Group (-2617')

Ls. com. - grey. silt. chik. - bed. dms.
 VEG - m. silt. - tan. - NO NSFOC
 Vug. moldic. - chik. - NO NSFOC

Ls. com. - grey. tan. bed. dms. VEG
 silt. chik. - bed. dms. VEG
 moldic. - bed. dms. VEG - NO NSFOC
 chik. - NO NSFOC

Sh. silt. - tan. m. silt. - bed. dms.
 silt. - tan. m. silt. - bed. dms.
 Ls. silt. - tan. m. silt. - bed. dms. VEG
 NO NSFOC

Ls. com. silt. + chik. - bed. dms.
 VEG - m. silt. - tan. - NO NSFOC
 chik. - NO NSFOC
 chik. - NO NSFOC

Ls. com. tan. bed. dms. VEG - m. silt.
 tan. - NO NSFOC
 chik. - NO NSFOC
 Sh. silt. - tan. m. silt. - bed. dms. VEG

Ls. com. tan. m. silt. - bed. dms.
 tan. - NO NSFOC
 chik. - NO NSFOC
 chik. - NO NSFOC

DIMITS L.S. (-2137')

Ls. com. tan. m. silt. - bed. dms.
 tan. - NO NSFOC
 chik. - NO NSFOC
 chik. - NO NSFOC

Mud Check @ 410
 M.W. 9.35 Sp. 57
 V.S. 57 LCM. 0
 WL. 7.2
 Chl 4100

Ls. com. tan. m. silt. - bed. dms.
 tan. - NO NSFOC
 chik. - NO NSFOC
 chik. - NO NSFOC

Starkshale (-2777')

Sh. silt. - tan. m. silt. - bed. dms.
 tan. - NO NSFOC
 chik. - NO NSFOC
 chik. - NO NSFOC

Sh. silt. - tan. m. silt. - bed. dms.
 tan. - NO NSFOC
 chik. - NO NSFOC
 chik. - NO NSFOC

Ls. com. tan. m. silt. - bed. dms.
 tan. - NO NSFOC
 chik. - NO NSFOC
 chik. - NO NSFOC

Base of Kansas City Group (-2836')

Sh. silt. - tan. m. silt. - bed. dms.
 tan. - NO NSFOC
 chik. - NO NSFOC
 chik. - NO NSFOC

Marmaton GP (-2847')

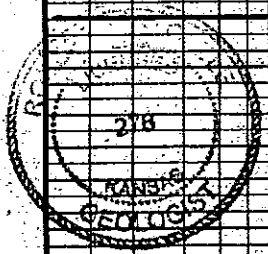
5000

5050

5100

5150

5200



ls. gray-bd. dds. tan-vgx bl. NO NSFOC	Rac. 105 GIP 20' OSGCM Strat 5.07' long in box Diameter 4 1/2"
abund. sh. carings = 90% smol.	
ls. gray-ox. bd. dds. tan -mxid. sp. st. schik. idc. sh. dolomitic NO NSFOC sh. carings	Mud Check @ 4965' M.W. 9.3 Solids 7.3% Vis. 68 LCM 4# W.L. 6.8 Chl. 3800
ls. tan-tan-ly-gray, bd. dds. mxid. mxid. mic. tr. ch. tr. chik. dcc. sandy. v. sandy NO NSFOC	
ls. gray-bd. dds. v. fg. mxid. mic. acc. ch. acc. sh. dolomitic. tr. sandy. tr. chik. NO NSFOC	Start 10' samples
ls. H.H. dcc. dx. tr. to ss. chik. NO NSFOC	
sh. gray-maroon, m. st. m. bd. dds. cap. th. carings	
ls. tan, bd. dds. dolomitic. sandy NO NSFOC	
sh. gray-very fine m. bd. dds. acc. sandy. pack	
sh. gray-ox. gray m. bd. dds. acc. sandy. acc. w. l. x. m. ch. in	SIMPSON FM. SHALE (-3440')
sh. H.H. m. m. d. d. d. m. ch. in ss. w. ch. st. v. st. in. m. ch. in loose ss. in m. bed. sample v. fg. med. w. m. d. m. ch. in - 2-3 clusters. No. m. d. d. d. m. ch. in ss. w. ch. st. v. st. in. m. ch. in round. loose ss. - fine clusters m. d. d. d. NO NSFOC	Simpson ss. (-3455')
ss. w. ch. st. v. st. in. m. ch. in clusters. m. d. d. d. m. ch. in med. w. l. d. NO NSFOC	WOB 25,000#
ss. ch. tan, st. v. st. in. m. ch. in med. w. l. d. m. ch. in w. l. d. w. st. v. st. in. m. ch. in m. d. d. d. clusters NO NSFOC	
ss. H.H. dcc. med. st. v. st. in. m. ch. in gala. med. w. l. d. m. ch. in NO NSFOC	
sh. gray-bl. gray m. bd. dds. w. l. d.	WOB 35,000#
ss. w. tan, bd. dds. w. l. d. m. d. d. d. m. ch. in m. d. d. d. NO NSFOC	Bit worn out
ss. H.H. m. d. d. d. m. ch. in NO NSFOC	
sh. gray-ox. gray-ox. gray m. bd. dds. m. bd. dds. w. l. d. m. ch. in	Mud Check @ 5170' M.W. 9.3 Solids 7.3% Vis. 63 LCM 5# W.L. 8.0 Chl. 500
sh. H.H. ss. w. gray m. st. v. st. in. m. ch. in m. d. d. d. NO NSFOC	
sh. gray-ox. gray-ox. gray m. bd. dds. st. v. st. in. m. ch. in acc. ss. H.H. st. v. st. in. m. ch. in dolomitic NO NSFOC	
sh. gray-ox. gray-ox. gray m. bd. dds. m. d. d. d. w. l. d. m. ch. in ss. w. tan, bd. dds. st. v. st. in. m. ch. in m. d. d. d. NO NSFOC	
sh. H.H. ss. w. tan-ox. gray-bd. dds. w. l. d. v. fg. dolomitic m. ch. in m. d. d. d. NO NSFOC	20' Sandstone D.T.D. 5170' L.T.D. 5173' Deviation 3/4" Robert Stahl 2/23/11