



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: _____



1088559

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
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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
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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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Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Yates A 3
Doc ID	1088559

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Yates A 3
Doc ID	1088559

Tops

Name	Top	Datum
Heebner	3765	-2391
Stark	4444	-3070
Base Kansas City	4508	-3134
Cherokee	4663	-3289
Mississippian	4709	-3335
Kinderhook	4960	-3586
Viola	5120	-3746
Simpson	5210	-3836
Simpson Sand	5228	-3854
Total Depth	5411	-4037



PAGE 1 of 1	CITY NO 1000719	INVOICE DATE 06/29/2010
INVOICE NUMBER 1718 - 90347956		

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

J LEASE NAME Yates A 3
 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
40199908	19905		Net - 30 days	07/29/2010
<i>For Service Dates: 06/27/2010 to 06/27/2010</i>				
0040199908				
171802204A Cement-New Well Casing/Pi 06/27/2010 Longstring				
AA2 Cement	200.00	EA	10.37	2,073.90 T
60/40 POZ	50.00	EA	7.32	365.98 T
De-foamer (Powder)	38.00	EA	2.44	92.72 T
Salt (Fine)	990.00	EA	0.30	301.94 T
Gas-Blok	188.00	EA	3.14	590.57 T
FLA-322	151.00	EA	4.57	690.79 T
Gilsonite	1,000.00	EA	0.41	408.68 T
Latch Down Plug & Baffle, 5 1/2" (Blue)	1.00	EA	243.99	243.99
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	219.59	219.59
Turbolizer, 5 1/2" (Blue)	7.00	EA	67.10	469.68
5 1/2" Basket (Blue)	2.00	EA	176.89	353.78
CS-1L KCL Substitute	5.00	EA	21.35	106.74 T
Mud Flush	500.00	EA	0.52	262.29 T
Super Flush II	500.00	EA	0.93	466.63 T
Unit Mileage Charge-Pickups, Vans & Cars	50.00	HR	2.59	129.62
Heavy Equipment Mileage	100.00	MI	4.27	426.98
Proppant and Bulk Delivery Charges	578.00	MI	0.98	564.10
Depth Charge; 5001-6000'	1.00	HR	1,756.71	1,756.71
Blending & Mixing Service Charge	250.00	MI	0.85	213.49
Plug Container Utilization Charge	1.00	EA	152.49	152.49
Service Supervisor	1.00	HR	106.74	106.74

ENTERED
 JUL 06 2010
 912/BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,997.41
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	337.70
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	10,335.11
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 02204 A

36-345-12W

DATE _____ TICKET NO. _____

DATE OF JOB: 6-27-10	DISTRICT: Pratt, Kansas	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 Company, Inc.	LEASE: Yates "A"	WELL NO. 3						
ADDRESS:	COUNTY: Barber	STATE: Kansas						
CITY:	STATE:	SERVICE CREW: C. Messick; M. Mattal; E. Coleman						
AUTHORIZED BY:	JOB TYPE: C.N.W. - Longstring							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE: 6-26-10	TIME: 6:00
19,866	.75					ARRIVED AT JOB	6-26-10	8:30
19,903-19,905	.75					START OPERATION	6-27-10	3:30
19,821-19,808	.75					FINISH OPERATION	6-27-10	4:15
						RELEASED	6-27-10	5:00
						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
P CP 105	AA 2 Cement	sh	200		\$ 3,400.00
P CP 103	60/40 Poz Cement	sh	50		\$ 600.00
P CC 105	Defoamer	Lb	38		\$ 152.00
P CC 111	Salt (Fine)	Lb	990		\$ 495.00
P CC 115	Gas Blok	Lb	188		\$ 968.20
P CC 129	FLA-322	Lb	151		\$ 1,132.50
P CC 201	Gilsonite	Lb	1,000		\$ 670.00
P CF 607	Latch Down Plug and Baffle, 5 1/2"	ea	1		\$ 400.00
P CF 125	Auto Fill Float Shoe, 5 1/2"	ea	1		\$ 360.00
P CF 165	Turbolizer, 5 1/2"	ea	1		\$ 770.00
P CF 190	Basket, 5 1/2"	ea	2		\$ 580.00
P C 704	CS-1L HCL	Gal	5		\$ 175.00
P C 615	Mud Flush	Gal	500		\$ 430.00
P CC 155	Super Flush II	Gal	500		\$ 765.00
SUB TOTAL					DLS

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.

BASIC

ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 ~~02205~~ A
Continuation

36-345-12W

DATE _____ TICKET NO. 2204

DATE OF JOB: <u>6-27-10</u> DISTRICT: <u>Pratt, Kansas</u>		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: <u>Chieftain Oil Company, Inc.</u>		LEASE: <u>Yates "A"</u> WELL NO. <u>3</u>							
ADDRESS: _____		COUNTY: <u>Barber</u> STATE: <u>Kansas</u>							
CITY: _____ STATE: _____		SERVICE CREW: <u>C. Messick; M. Mattal; E. Coleman</u>							
AUTHORIZED BY: _____		JOB TYPE: <u>C.N.W. - Longstring</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
						ARRIVED AT JOB			
						START OPERATION			
						FINISH OPERATION			
						RELEASED			
						MILES FROM STATION TO WELL			

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
P E 100	Pickup Mileage	mi	50	\$	212 50
P E 101	Heavy Equipment Mileage	mi	100	\$	700 00
P E 113	Bulk Delivery	tm	578	\$	924 00
P CE 206	Cement Pump: 5,000 Feet To 6,000 Feet	Job	1	\$	2,880 00
P CE 240	Blending and Mixing Service	slt	250	\$	350 00
P CE 504	Plug Container	Job	1	\$	250 00
P 5003	Service Supervisor	Job	1	\$	175 00

SUB TOTAL \$ 9,997 41

SERVICE & EQUIPMENT	% TAX ON \$	
MATERIALS	% TAX ON \$	<u>PLS</u>
TOTAL		

CHEMICAL / ACID DATA:			

SERVICE REPRESENTATIVE: Eric R. M. [Signature]

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Lease No. **1 NC** Date **6-27-10**
 Well # **3**
 Client **Leftain Oil Company**
 Base **Yates "A"**
 Station **Pratt, Kansas** County **Barber** State **Kansas**
 Field Order # **2204** Casing **5 1/2 15.5 LB.** Depth **5,408** Feet
 Type Job **C.N.W. - Long string** Formation
 Legal Description **36-345-12W**

PIPE DATA		PERFORATING DATA		MATERIALS USED		TREATMENT RESUME	
Casing Size 5 1/2	Tubing Size 5 LB/FT	Shots/Ft		200 sacks AA-2 with	DATE	PRESS	IRIP
Depth 5,408 Feet	Depth	From	To	108 sacks 18 Gas Blo	5.28	De foamer,	.88 F.L.A. 322
Volume 128.7 Bbl.	Volume	From	To	5 Lb./Gal., 6.23 Gal./	Max	5 Lb./sk. Gilsonite	5 Min.
Max Press 1500	Max Press	From	To	50 sacks 60/40 Poz to	Min	1.44 CU.FT./sk.	10 Min.
Well Connection 1 1/2" Cont.	Annulus Vol.	From	To	Flush 12 T.7 Bbl. 28 HCL	Avg		15 Min.
Plug Depth 5,300 Feet	Packer Depth	From	To		HHP Used	(30 strts) and Mouse (20 strts) holes.	Annulus Pressure
Customer Representative Rob Raleigh	Station Manager David Scott				Gas Volume		Total Load

Service Units	19,866	19,903	19,905	19,931	19,908	Driver Names	Operator
Driver Names	Messick	Mattal	Coleman				Clarence R. Messick

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:30					Truckson location and hold safety meeting.
10:30					Maverick Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down Baffle screwed into collar and a total of 129 Joints new 15.5 Lb./Ft. 5 1/2" casing. Turbolizers were installed on collars # 4, 7, 14, 16, 17, 19 and # 21. A Basket was installed above collars # 2 and # 13.
2:30					
3:35	400		20	6	Casing in well. Circulate for 1 hour.
	400		32	6	Start Fresh water Pre-Flush.
	425		37	6	Start Mvd Flush.
	450		49	6	Start Fresh water spacer.
	500		52	5	Start Super Flush II.
3:45	500		103	5	Start Fresh water spacer
	-0-				Start mixing 200 sacks AA 2 cement.
					Stop pumping. Shut in well. Wash pump and lines. Release trap Latch Down Plug, Open Well.
3:58	100			6.5	Start 28 HCL Displacement.
			97	5	Start to lift cement.
4:17	800		127.7		Plug down.
					Pressure up.
	-0-		7-5	3	Release pressure. Float Shoe held.
					Plug Rat (30 strts) and Mouse (20 strts) holes.
5:00					Wash up pump truck.
					Job Complete.



PAGE 1 of 1	CONTRACT NO 1000719	INVOICE DATE 06/14/2010
INVOICE NUMBER 1718 - 90337525		

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

J LEASE NAME Yates A-3
 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
40194348	20920		Net - 30 days	07/14/2010
For Service Dates: 06/13/2010 to 06/13/2010				
0040194348				
171802131A Cement-New Well Casing/Pi 06/13/2010				
CNW-Conductor				
Cement		340.00	EA	5.40
60/40 POZ				1,835.85
Additives		85.00	EA	1.66
Cello-flake				141.51
Calcium Chloride		879.00	EA	0.47
Calcium Chloride				415.29
Mileage		100.00	MI	3.15
Heavy Equipment Mileage				314.97
Mileage		733.00	MI	0.72
Proppant & Bulk Delivery Charges				527.71
Mileage		340.00	MI	0.63
Blending & Mixing Service Charge				214.18
Pickup		50.00	HR	1.91
Unit Mileage Charge-Pickups, Vans & Cars				95.62
Pump Charge-Hourly		1.00	HR	449.96
Depth Charge: 0-500'				449.96
Supervisor		1.00	HR	78.74
Service Supervisor				78.74

ENTERED
 JUN 17 2010
 9121 BL

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,073.83
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	150.74
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	4,224.57
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASIC ENERGY SERVICES PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET 1718 02131 A

DATE _____ TICKET NO. _____

Main job information form including Date of Job (06-13-10), District (Pratt), Customer (Chicktain O.L.), Address, City, State, Authorized By, Equipment list, and Service Crew (Sullivan, McKay, Nall). Includes a detailed schedule table for truck arrival, operation, and release times.

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.

SIGNED: [Signature] (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

Table with 5 main columns: ITEM/PRICE REF. NO., MATERIAL, EQUIPMENT AND SERVICES USED, UNIT, QUANTITY, UNIT PRICE, \$ AMOUNT. Contains handwritten entries for items like CP 103, CC 102, E 100, etc.

CHEMICAL / ACID DATA form with multiple empty rows.

SERVICE & EQUIPMENT MATERIALS %TAX ON \$ form.

Thank you TOTAL \$4,073.83

SERVICE REPRESENTATIVE [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY [Signature] (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

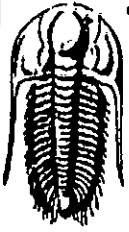
FIELD SERVICE ORDER NO.

Customer <i>Chicktown Oil</i>	Lease No.	Date <i>06-13-10</i>
Lease <i>YATPS</i>	Well # <i>A-3</i>	
Field Order # <i>2131</i>	Station <i>PRA-4</i>	Casing <i>3 3/8</i>
Type Job <i>Conductor</i>	Formation	Depth <i>305</i>
		County <i>BARBER</i>
		State <i>KS</i>
		Legal Description <i>36 34 12</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>1 3/8</i>				Pre Pad	Max		5 Min.	
Depth <i>278.88</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>45 1/2</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>300</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>291</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Johnson</i>
Service Units <i>19867 19959 20920 19832 21010</i>		
Driver Names <i>Bellman Nelson</i>	<i>NALL</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1430</i>					<i>ON loc BEATY Mart</i>
					<i>RUN 6 J.T.S 13 3/8 48" csg</i>
<i>1815</i>					<i>CASING ON BOTTOM</i>
<i>1820</i>					<i>Hook Rig to Circ.</i>
<i>1830</i>	<i>100</i>		<i>76</i>	<i>5.5</i>	<i>It mixing cement</i>
				<i>4</i>	<i>cmnt mixed</i>
					<i>It Drop</i>
<i>1905</i>	<i>200</i>		<i>45 1/2</i>		<i>plug down</i>
					<i>Circulated 12 ABC CIV to Pit</i>
					<i>Job complete</i>
					<i>Thank you</i>



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Kiowa, KS 67070

36-34s-12w Barber KS

Job Ticket: 36915

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2010.06.21 @ 14:52:05

GENERAL INFORMATION:

Formation: **Misener**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 17:56:35
 Time Test Ended: 00:21:35

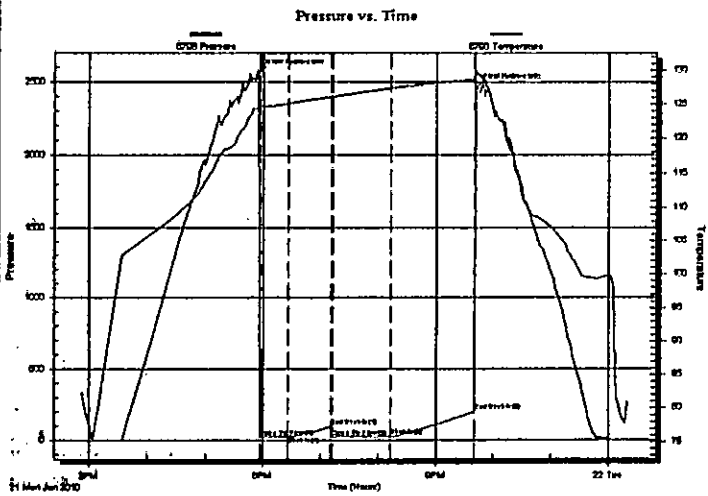
Test Type: **Conventional Bottom Hole**
 Tester: **Jerry Adams**
 Unit No: **45**

Interval: **5054.00 ft (KB) To 5084.00 ft (KB) (TVD)**
 Total Depth: **5084.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1374.00 ft (KB)**
1365.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: **6798** Inside
 Press@RunDepth: **23.36 psig @ 5055.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.06.21** End Date: **2010.06.22** Last Calib.: **2010.06.22**
 Start Time: **14:52:06** End Time: **00:21:35** Time On Btm: **2010.06.21 @ 17:55:05**
 Time Off Btm: **2010.06.21 @ 21:42:05**

TEST COMMENT: IF:Weak blow . Built to 4 3/4".
 IS:No blow .
 FF:Weakblow . Built to 3".
 FS:No blow .



PRESSURE SUMMARY

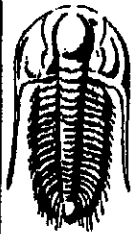
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2558.42	124.74	Initial Hydro-static
2	21.88	124.68	Open To Flow (1)
31	24.83	125.09	Shut-in(1)
76	94.27	126.07	End Shut-in(1)
78	21.45	126.07	Open To Flow (2)
139	23.36	127.35	Shut-in(2)
226	198.85	128.64	End Shut-in(2)
227	2457.59	129.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	2%g 98%m	0.21
0.00	50' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Kiowa, KS 67070

36-34s-12w Barber KS

Job Ticket: 36915

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2010.06.21 @ 14:52:05

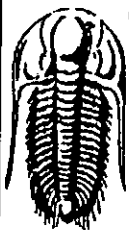
Tool Information

Drill Pipe:	Length: 5039.00 ft	Diameter: 3.80 inches	Volume: 70.68 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 70.68 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5054.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	53.00 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			5036.00	
Hydraulic tool	5.00			5041.00	
Safety Joint	3.00			5044.00	
Packer	5.00			5049.00	23.00 Bottom Of Top Packer
Packer	5.00			5054.00	
Stubb	1.00			5055.00	
Recorder	0.00	6798	Inside	5055.00	
Recorder	0.00	8367	Inside	5055.00	
Perforations	26.00			5081.00	
Bullnose	3.00			5084.00	30.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Kiowa, KS 67070

36-34s-12w Barber KS

Job Ticket: 36915 DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2010.06.21 @ 14:52:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 78.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.37 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm-m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.21 inches			

Recovery Information

Recovery Table

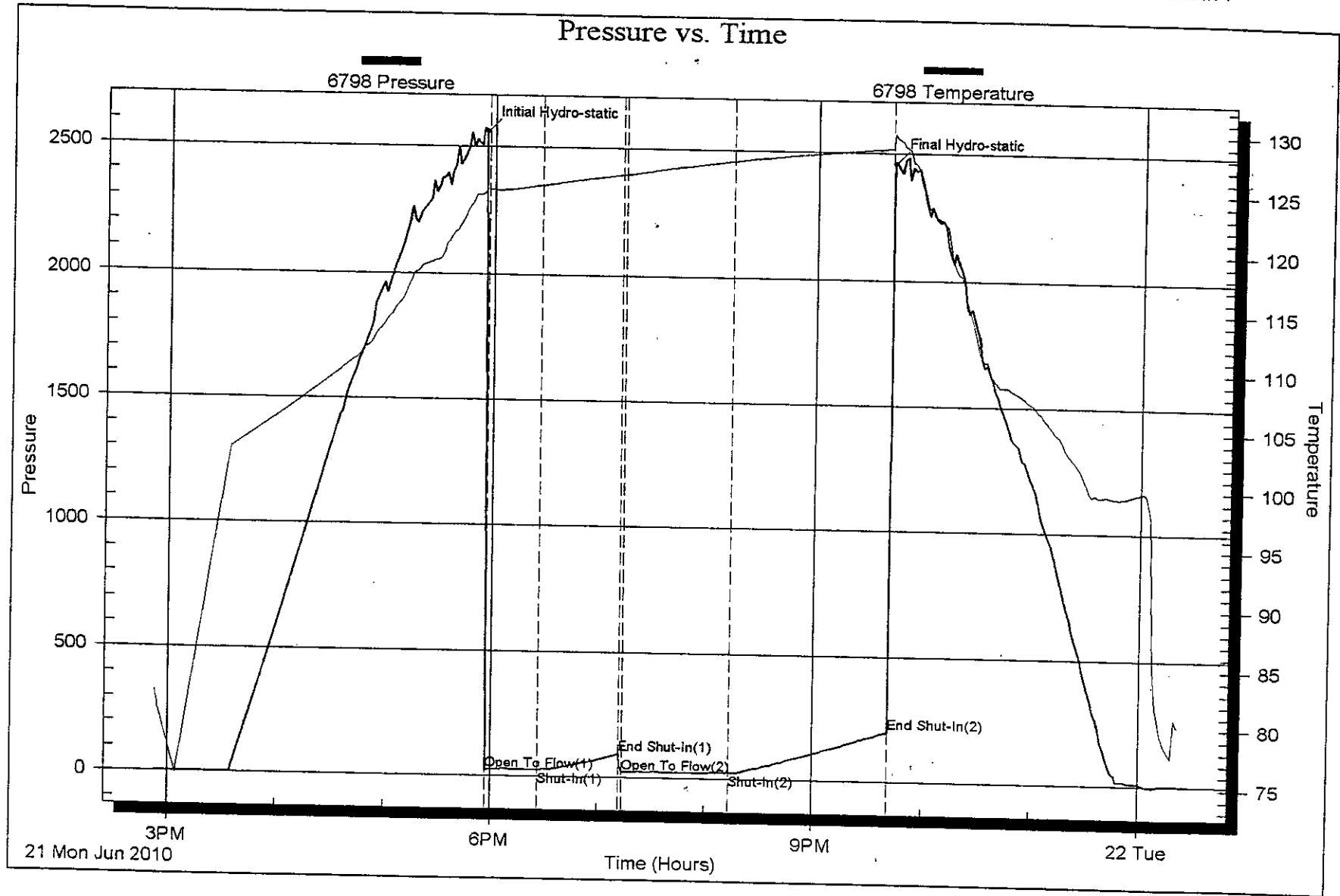
Length ft	Description	Volume bbl
15.00	2%g 98%m	0.210
0.00	50' GIP	0.000

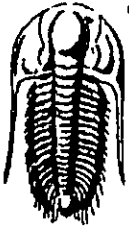
Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Klowa, KS 67070

36-34s-12w Barber KS

Job Ticket: 36916

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2010.06.22 @ 23:02:11

GENERAL INFORMATION:

Formation: **Simpson**

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

Time Tool Opened: 02:02:41

Time Test Ended: 08:49:41

Test Type: **Conventional Bottom Hole**

Tester: **Jerry Adams**

Unit No: **45**

Interval: **5179.00 ft (KB) To 5216.00 ft (KB) (TVD)**

Reference Elevations: **1374.00 ft (KB)**

Total Depth: **5216.00 ft (KB) (TVD)**

1365.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **9.00 ft**

Serial #: 6798

Inside

Press@RunDepth: **24.67 psig @ 5180.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.06.22**

End Date:

2010.06.23

Last Calib.: **2010.06.23**

Start Time: **23:02:12**

End Time:

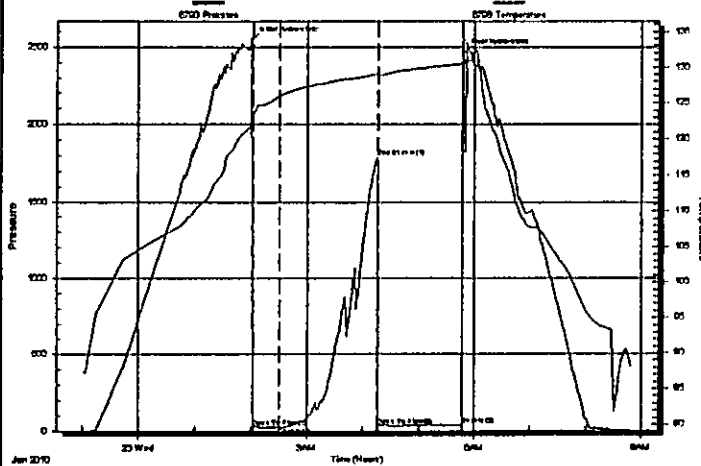
08:49:41

Time On Btm: **2010.06.23 @ 02:00:41**

Time Off Btm: **2010.06.23 @ 05:47:41**

TEST COMMENT: IF: Fair blow. Built to 11".
IS: Fair blow. B.O.B. in 39 mins.
FF: Weak blow. Steady at 1".
FS: Strong blow. B.O.B. immediately.

Pressure vs. Time



PRESSURE SUMMARY

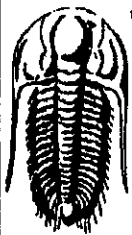
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2544.45	121.86	Initial Hydro-static
2	26.94	123.15	Open To Flow (1)
30	24.67	125.94	Shut-In(1)
135	1788.65	128.94	End Shut-In(1)
136	31.83	128.66	Open To Flow (2)
226	35.39	130.42	Shut-In(2)
227	2460.55	133.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	SGCOilyMud 12%g 37%o 51%m	0.63
0.00	2495' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Kiowa, KS 67070

36-34s-12w Barber KS

Job Ticket: 36916

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2010.06.22 @ 23:02:11

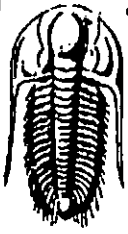
Tool Information

Drill Pipe:	Length: 5164.00 ft	Diameter: 3.80 inches	Volume: 72.44 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 72.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	5179.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			5161.00	
Hydraulic tool	5.00			5166.00	
Safety Joint	3.00			5169.00	
Packer	5.00			5174.00	23.00 Bottom Of Top Packer
Packer	5.00			5179.00	
Stubb	1.00			5180.00	
Recorder	0.00	6798	Inside	5180.00	
Recorder	0.00	8367	Inside	5180.00	
Perforations	33.00			5213.00	
Bullnose	3.00			5216.00	37.00 Bottom Packers & Anchor
Total Tool Length:	60.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Kiowa, KS 67070

36-34s-12w Barber KS

Job Ticket: 36916 DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2010.06.22 @ 23:02:11

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.21 inches			

Recovery Information

Recovery Table

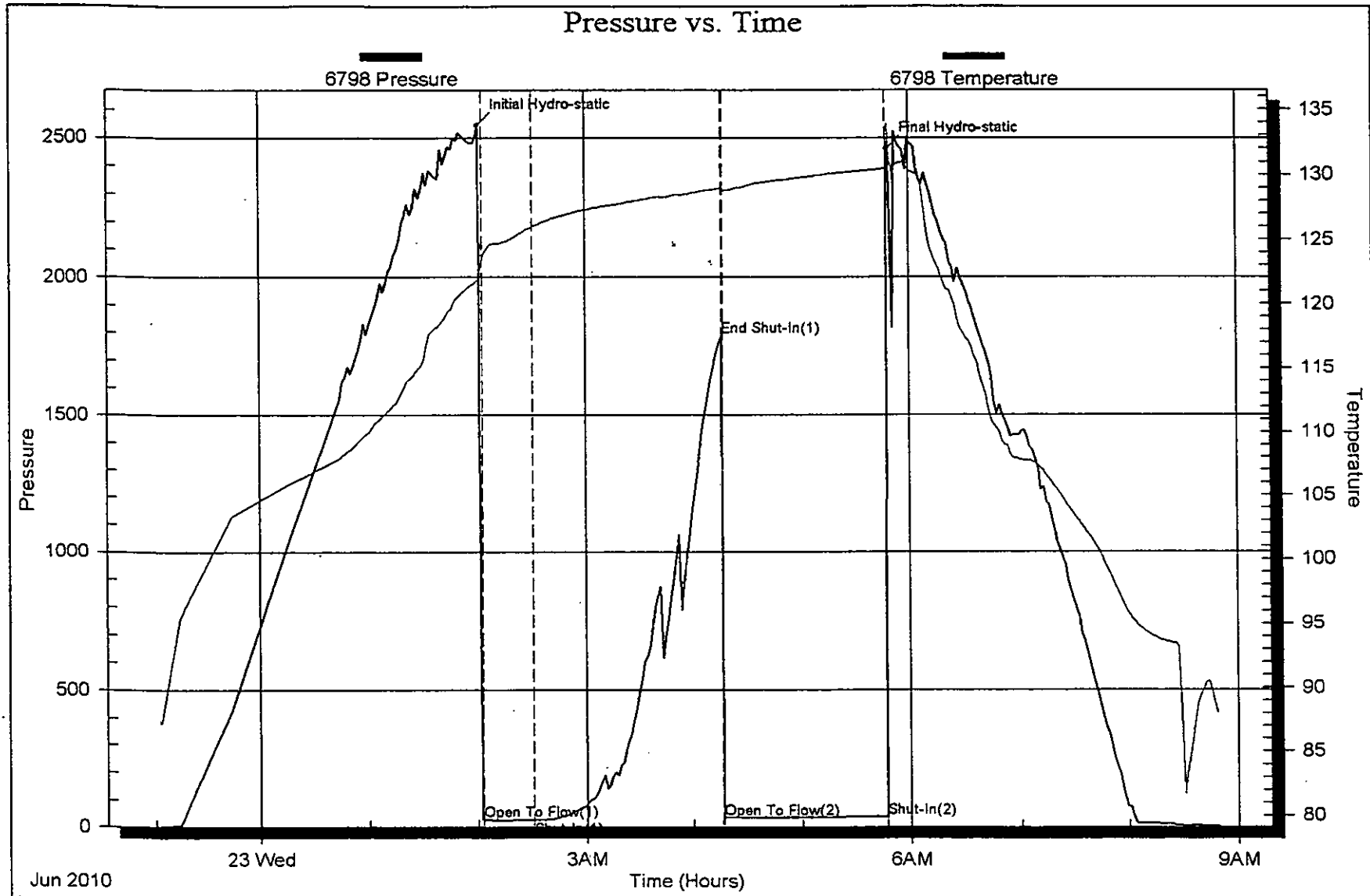
Length ft	Description	Volume bbl
45.00	SGCOOilyMud 12%g 37%o 51%m	0.631
0.00	2495' GIP	0.000

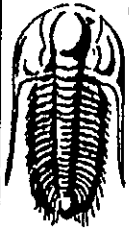
Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Kowa, KS 67070

36-34s-12w Barber KS

Job Ticket: 36917 DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2010.06.23 @ 21:29:39

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **00:35:09**
 Time Test Ended: **08:07:09**

Test Type: **Conventional Bottom Hole**
 Tester: **Jerry Adams**
 Unit No: **45**

Interval: **5225.00 ft (KB) To 5238.00 ft (KB) (TVD)**
 Total Depth: **5238.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1374.00 ft (KB)**
1365.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: 6798

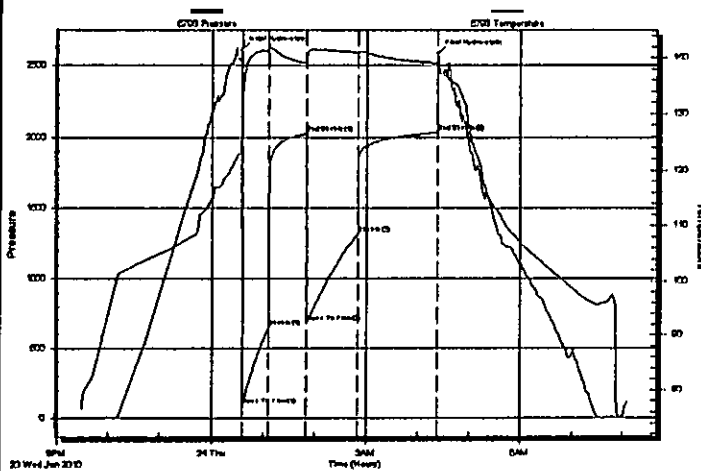
Inside

Press@RunDepth: **1315.75 psig @ 5226.00 ft (KB)**
 Start Date: **2010.06.23** End Date: **2010.06.24**
 Start Time: **21:29:40** End Time: **08:07:09**

Capacity: **8000.00 psig**
 Last Calib.: **2010.06.24**
 Time On Btrr: **2010.06.24 @ 00:33:39**
 Time Off Btrr: **2010.06.24 @ 04:23:09**

TEST COMMENT: IF: Strong blow . B.O.B. in 2 mins.
 IS: Weak blow . Built to 5", decreased to 3".
 FF: Strong blow . B.O.B. in 3 mins.
 FS: Weak blow . Built to 2".

Pressure vs. Time



PRESSURE SUMMARY

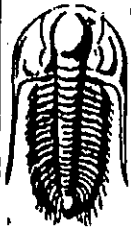
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2608.65	122.97	Initial Hydro-static
2	91.82	127.82	Open To Flow (1)
32	646.17	141.36	Shut-In (1)
77	2024.62	139.04	End Shut-In (1)
78	683.53	139.85	Open To Flow (2)
137	1315.75	140.93	Shut-In (2)
229	2032.07	138.99	End Shut-In (2)
230	2585.27	137.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Drilling Mud 100% m	1.40
340.00	MCW 80% w 20% m	4.77
2780.00	SMCW 95% w 5% m	39.00
0.00	RW = .085 @ 90 deg.	0.00

Gas Rates

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



**TRILLOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Kiowa, KS 67070

36-34s-12w Barber KS

Job Ticket: 36917

DST#: 3

ATTN: Arden Ratzlaff

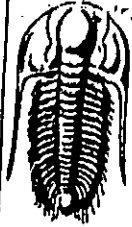
Test Start: 2010.06.23 @ 21:29:39

Tool Information

Drill Pipe:	Length: 5226.00 ft	Diameter: 3.80 inches	Volume: 73.31 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 73.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	5225.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5207.00	
Hydraulic tool	5.00			5212.00	
Safety Joint	3.00			5215.00	
Packer	5.00			5220.00	23.00 Bottom Of Top Packer
Packer	5.00			5225.00	
Stubb	1.00			5226.00	
Recorder	0.00	6798	Inside	5226.00	
Recorder	0.00	8367	Inside	5226.00	
Perforations	9.00			5235.00	
Bullnose	3.00			5238.00	13.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Company, Inc.

Yates A #3

P.O.Box 124
Kiova, KS 67070

36-34s-12w Barber KS

Job Ticket: 36917

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2010.06.23 @ 21:29:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 9.96 in²

Resistivity: 0.00 ohm.m

Salinity: 5500.00 ppm

Filter Cake: 0.21 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 80000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	Drilling Mud 100% _m	1.403
340.00	MCW 80% _w 20% _m	4.769
2780.00	SMCW 95% _w 5% _m	38.996
0.00	RW = .085 @ 90 deg.	0.000

Total Length: 3220.00 ft

Total Volume: 45.168 bbl

Num Fluid Samples: 0

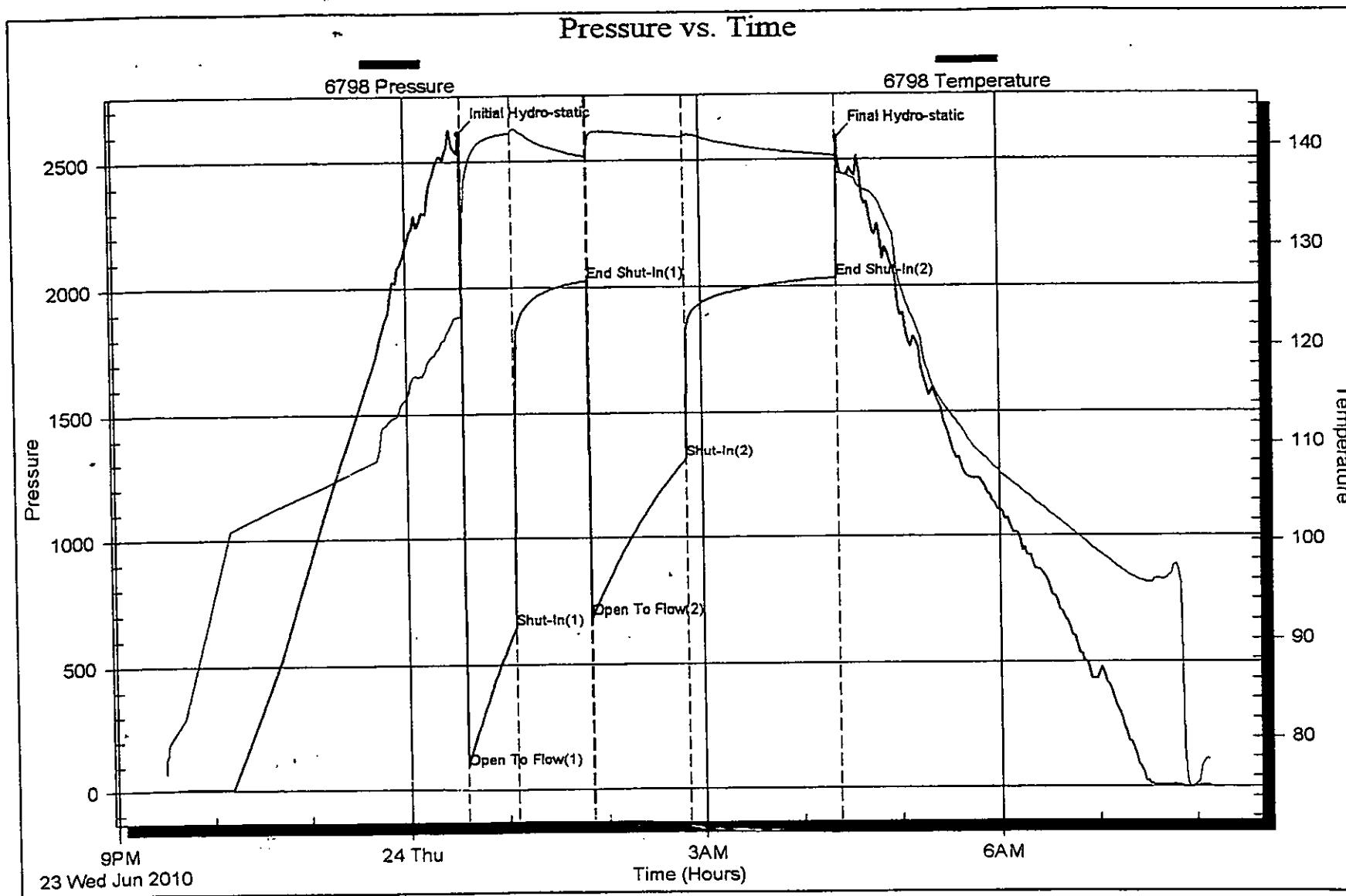
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



Arden Ratzlaff

PETROLEUM GEOLOGIST

Phone 262-8938

107 N. Market 808 Biting Bldg. Wichita, KS 67202

COMPANY CHIEFTAIN OIL CO., INC.

LEASE YATES 'A' No. 3

FIELD STRANATHAN

LOCATION NW SE NE SE

SECTION 36 TOWNSHIP 34S RANGE 12W

COUNTY BARBER STATE KANSAS

CONTRACTOR MAYERBACH DRILLING RIG NL 106

COMMENCED DRILLING 6-13-10

COMPLETED DRILLING 6-25-10

RTD SAND FEET LTD FEET

MUD UP AT 2000 FEET MUD TYPE CHEMICAL

DRILLING TIME

AND

SAMPLE LOG

ELEVATIONS

KD 1374

IF 1372

EL 1365

Measurements Are All
From K. B.

CASING

1 3/4" @ 305' W. 240 SX

5 1/2" @ 500' W. 200 SX

ELECTRICAL SURVEYS

SUPERIOR - GAMMA RAY DUAL
INDUCTION COMPENSATED NEUTRON
& DENSITY, S.P. & CALIPER

FORMATION TOPS

SAMPLE

ELECTRIC LOG

ANHYDRITE
SAND
SAND KANSAS CITY
CHERT
MISSISSIPPIAN
KANSAS
VIOLA
STANFORD
SIMPSON SAND
TOTAL, 200 FT

3764 (-2890)
4448 (-3074)
4512 (-3158)
4604 (-3280)
4711 (-3357)
4962 (-3588)
5124 (-3750)
5203 (-3829)
5224 (-3850)
5410 (-4036)

3765 (-2991)
4444 (-3070)
4508 (-3154)
4665 (-3289)
4709 (-3335)
4960 (-3586)
5120 (-3786)
5210 (-3886)
5228 (-3884)
5411 (-4057)

REMARKS AFTER ANALYZING THE DRILLING FLUID, ESPECIALLY THE HYDROCARBON SHOWS & THE HISTORY OF PRODUCTION IN THE AREA, IT WAS DECIDED
THAT CASING BE CEMENTED IN EXPECTANCE OF COMMERCIAL PRODUCTION.

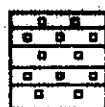
Arden Ratzlaff, Petroleum Geologist

NOTE: NATIVE AMERICAN FURNISHED THE MUD - TRILONITE. THE DRILL STEM TESTS - SAMPLES DEPOSITED AT THE K.G.S. SURVEY.

LEGEND



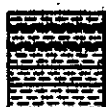
Anhydrite



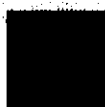
Salt



Sandstone



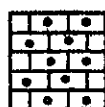
Shale



Carb sh



Limestone



Dol. Line



Chert



Dolomite

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Increases



LITHOLOG

GY	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
	3400		
	20		
	40		
	60		
	80		
	100		
	120		
	140		
	160		
	180		
	200		
	220		
	240		
	260		
	280		
	300		
	320		
	340		
	360		
	380		
	400		
	420		
	440		
	460		
	480		
	500		
	520		
	540		
	560		
	580		
	600		
	620		
	640		
	660		
	680		
	700		
	720		
	740		
	760		
	780		
	800		
	820		
	840		
	860		
	880		
	900		
	920		
	940		
	960		
	980		
	1000		
	3400	SH. MED TO DK GRY. SCAT GRY CON & TR GRN. W. SCAT BLK & GRN TON. EOLYIN SUR. CHLVY TO DENSE HARD LR.	
	3600	SH. MED TO DK GRY. CR. GRN & GRN IN. SCAT BLK GRY TON & EOLYIN DRABE. HARD LR.	
	3800	SH. AS ABOVE IN SCAT BLK SIL & SCAT. W. CR. BLK TON & EOLYIN SUR. CHLVY TO DENSE HARD LR.	
	4000	SH. AS ABOVE IN BLK CR. & L. M. AT BOT.	
	4200	SH. MED TO DK GRY & SCAT BLK IN DK GRY. & EOLYIN DRABE. HARD LR.	
	4400	SIL ST. BLK GR. CR. IN. TO. D. & SIL L. W. W. TRAV. OT. GR. IN. IN. BET. SCAT. DR.	

20

TO TR FOUR INTER-CRAN FOR - N.C.

SILT AS ABOVE

40

SILT LT GRAY W. SMALL S. GR. GR. IN YIN
DIA. CA. 1/16" IN. IN GR. IN. DE. BY
IMBEDDED TO FOUR FOR - N.S. BUT IN TO
TR. GR. & BLK. SH.

60

SILT & SILT AS ABOVE

80

SILT. DOKA CLUSTERS IN TINY DTY GRANTS
IMBEDDED TO SIL. FOUR INTER-CRAN
FOR - N.S.

3700

SILT AS ABOVE IN SILT MED TO DY GRAY
& SIL GRAY - GRN SH.

20

SH. MED TO DY GRAY. GRAY - CONSIDER. BLK.
SCAT. TON. BDN. & BK GRAY. EN. YIN. BRED
DENSE. HARD. L.M. & SCAT. SD. ST. AT ABOVE.

40

SH. MED TO DY GRAY & BLK. (TR. COBBLE) IN SCAT
TON. & BDN. EN. YIN. DENSE. HARD. L.M.

HEBNER

3964

2390

60

SH. BLK. & BRN. BLK. (TR. COBBLE) IN SCAT
TO DY GRAY. BLK. LT. GRAY. BUREA. TR. TON. EN.
YIN. SUB. CH. UN. TO DENSE. HARD. L.M.

80

SH. MED TO DY GRAY & BLK. IN SCAT. CON. BLK.
LT. GRAY. EN. YIN. SUB. CH. UN. TO DENSE. HARD. L.M.

3800

SH. CON. SILT AS ABOVE. W. CRAN. PIPE. LT.
GRAY & TON. EN. YIN. SUB. CH. UN. TO DENSE.
HARD. L.M.

20

40

60

80

3900

20

40

60

80

4000

20

SOME - GRY SU IN INCR IN IN ABOVE

IN. MIN. STR. BLUE & GRY SUB-CALIC. & TP
CHLY TO DENSE & HARD IN IN GRY BLK &
BRNISH-BLK. CARB. IN PART. SU

SOME (IN AC ABOVE) & TRIMED TO THE GRY
SU

IN. AS ABOVE IN TR. MIN. CALIC. IN & OVER
GRY. GRY-GON & CARBON SU & SPRT BRN
EN YIN.

IN. CAR. BLUE GRY. TRAIL & BRN. EN YIN. SUB-
CALIC. TO DENSE & HARD IN IN GRY-GON
BRN GRY & BLK SU

SU AS ABOVE IN MIN. CAR. BLUE & GRY TRAIL
& BRN EN YIN. SUB-CALIC. & TR. CALIC. TO
DENSE & HARD

IN & SU AS ABOVE - SOME GRY GRY SU
SILTY

SU. OVER GRY. GRY-GON. SCORPION GON IN
SCOT. IN. AS ABOVE

SU. OVER GRY. GRY-BRN. SCOT. IN. GRY &
Y. SCOT. TRAIL & BRN. DENSE. HARD. IN.

SU & IN AC ABOVE

SU. AS ABOVE IN SCOT. BLUE TRAIL & BRN.
EN YIN. DENSE. HARD. IN.

40

SH AS ABOVE IN SORT BRN FN YAL DENSE
HARD LN

60

SH MED GRY BRN GRN LN SORT BRN GRN
& TO BLK

80

SH AS ABOVE IN TO GRN SH

4300

SH MED GRY GRN GRN SORT GRN TO DRP
PLUS CRD BLUE GRN TAN BRN BK YAL
DENSE DENSE HARD LN

20

SH MED GRY GRN GRN SORT GRN GRN
& Y SORT GRN & RED SH

40

SH MED GRY GRN GRN SORT GRN GRN
& Y SORT GRN

60

SH AS ABOVE IN SORT BRN GRN & BRN
FN YAL SUB-FINE TO DENSE HARD LN

80

SH MED TO DR GRY GRN GRN & BLK TO
SILTY

4200

LN BLUE GRN & TAN FN YAL SUB-FINE
TO DENSE HARD W/ CONC SH AS ABOVE

20

SH MED TO DR GRY GRN GRN GRN & BLK
W/ LN AS ABOVE PLUS SORT LT GRN SUB-
FINE LN W/ DR GRN SH BLK & TO DR
(BLANK IN RECORDED SECTION)

40

SAME AS ABOVE

60

80

4300

20

40

60

80

4400

20

40

60

270172

LANSING

4298

-2924

SH. BED TO TK GRY GRY - CON SCOT DR GRY
E BLK PILL SCOT DR BLUE GRY TRAIL BRY
EN YIN SUB-CHUKY TO DENSE HARD LN

SH LMS AS ABOVE PILL BLK W CORR
(GAS BURSTS) SU

LM - WH CON BLUE & LT GRY EN YIN SUB-
CHUKY & TR CHUKY TO CAL DENSE HARD LN
STILL DR BLK CORR. SU

LM - WH CON BLUE GRY TRAIL BRY EN
YIN SUB-CHUKY & TR CHUKY TO DENSE &
HARD - STILL SH AS ABOVE

SAME AS ABOVE IN LONG SU

LM - WH CON EN YIN FOSSE (FOSSE)
CHUKY & SUB-CHUKY IN LT GRY BLUE & TR
EN YIN BED DENSE & HARD

LM - WH CON BLUE LT GRY TR EN YIN
SUB-CHUKY & TR CHUKY TO DENSE & HARD

LM - CON BLUE GRY & TR EN YIN SUB-
CHUKY TO DENSE DENSE HARD & PLTY
IN V SCOT LT GRY GRY CON SUB-
TRAIL BRY

LM - BLUE GRY TR & BRY EN YIN DENSE
DENSE & HARD IN V SCOT WH & CON
SUB-CHUKY & CHUKY LN

LM - AS ABOVE IN INCR IN WH CON CHUKY
& SUB-CHUKY & SCOT BLK CORR SU

STARK

4448

-3074

240172

LM - WH CON BLUE GRY & TR EN YIN

80
4500
20
40
60
80
4600
20
40
60

HUSHUCKNEY 6882

42 UNITS -3108

SAME IN CONT. BLK. V. CORR. (GAS BUBBLES) IN SH. BLK. CORR. SH.

BASE K.C. 4512

-3138

1 IN. AS ABOVE IN LT. GRAY (TAN. FROTH) SUB. SUB-TRANS. CURT

SAME AS ABOVE IN SCOT. BLK. CORR. SH.

1 IN. WH. CORR. RUBB. GRAY (TAN. FALYIN SUB-CHUCKY & TO CHUCKY TO DENSE & HARD IN. IN. CORR. BLK. CORR. IN. PART) & SCOT. GRAY-CORR. SH.

1 IN. CORR. RUBB. GRAY (TAN. FALYIN SUB-CHUCKY TO DENSE & HARD IN. IN. CORR. BLK. CORR. IN. PART) & SCOT. GRAY-CORR. SH.

ALTAMONT 4591

(-3217)

1 IN. WH. CORR. RUBB. GRAY (TAN. FALYIN SUB-CHUCKY & TO CHUCKY TO DENSE & HARD IN. IN. CORR. BLK. CORR. IN. PART) & SCOT. GRAY-CORR. SH.

1 IN. 1/2 IN. AT ABOVE? (AFTER BIT TRIP)

BIT TRIP @ 4615'
STEAD PIPE @ 4645'
BOARD 4615.47'
STRAP 4615.07'
STRAP SHORT .40'

STRAIGHT HOLE SURVEY 4615'
DEVIATION: 1°

PANNEE 4650

-3256

SU. BLK. CORR. IN PART. IN SCOT. BLK. CORR. TO BLK. CORR. (PART CORR.) CORR. GRAY-CORR. SH. IN. IN. CORR. RUBB. GRAY (TAN. FALYIN SUB-CHUCKY TO DENSE & HARD.

1 IN. AS ABOVE - PRE-TEN. HARD.

CHEROKEE 4666

26 UNITS -3290

1 IN. CORR. RUBB. GRAY (TAN. FALYIN SUB-CHUCKY TO DENSE & HARD IN. CONT. BLK. CORR. SH.

4700

100'

20

30'

40

50'

60

70'

80

4800

20

40

60

80

MISSISSIPPIAN 4711

-3357

40' UNITS

100' UNITS

100' UNITS

100' UNITS

1.5' AS ABOVE IN SAND TO SILT GRAY GRY.
CON. SILT (CON. IN SAND) 1/2 IN SU

1.5' SILT AS ABOVE

2.0' SAND AS ABOVE IN 1/2 GRY. (THE SAND
SILT SANDSIL. CH. AND FLUID - NO ODOOR - GY. L.
NOT INTERACTIVE - SAND NOT THROTTLED OUT

(3.75') FINE 1/2 GRY. & SILT BLUE GRY. SAND. SAND.
SAND. SAND. IN SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
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SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

(4.5') CURT. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
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SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

(5.25') SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

(6.0') FINE 1/2 GRY. SILT & CON. SAND. SAND.
SAND. SAND. TO SAND & SILT. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

1.5' CON. BLUE GRY. & TAN. SAND. SAND. SAND.
SAND. SAND. TO SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

SIL. SAND & CURT. SAND

(7.5') SAND TO SILT. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

(8.25') SIL. SAND TO SILT. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

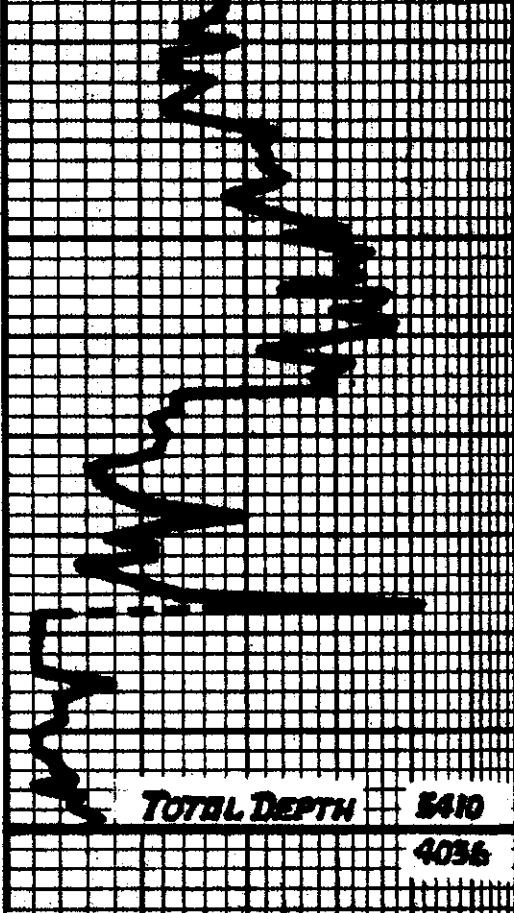
(9.0') SAND TO SILT. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

40

60

80

3400



TOTAL DEPTH **5410**
4036

SH. MED TO DK GRY. BOLD BLK & SW LY
 GRN

SH. BOLD. MED TO DK GRY & BLK

STWD. SLUGS ABOVE W. LY GRY. BLK SW'S CRT
 CLUSTERS. EN. GRABED. BTRD FOR BIT
 FUR. FRI. N. S. - SW CLUSTERS IN SWLY
 BOTTLE.

STWD. COLL. TON IN BLK SW'S EN. GRABED. BTRD
 BTRD. FRI. BTRD. BTRD. GRABED. N. S. BTRD. LY.
 GRY. EN. GRABED. BTRD. V. MED. BTRD. BTRD. IN
 FRI. BTRD. GRABED. N. S. - TO GRY. BLK SW'S
 V. FRI. BTRD. BTRD. BTRD. N. S. BTRD. BTRD.
 BTRD. MED TO DK GRY. SW

STWD. BTRD. BTRD. LY GRY. EN. GRABED. BTRD. IN-
 BTRD. GRABED FOR BIT BTRD. N. S. BTRD. BTRD. SW
 & BTRD. GRABED CLUSTERS OF BTRD. BTRD. &
 BTRD. BTRD. BTRD. BTRD. BTRD. V. MED.
 BTRD. BTRD. BTRD. BTRD. BTRD. BTRD. N. S.

BIT TRIP @ 5387'

PIPE STRAP @ 5410'
STRAP **5425.06'**
BOARD **5434.76'**
STRAP LONG **.31'**
STRAIGHT HOLE SURVEY 5410'
DEVIATION = 1/4°