



KANSAS CORPORATION COMMISSION 1088559
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 # 33235
Name: Chieftain Oil Co., Inc.
Address 1: 101 S. 5th St.; PO Box 124
Address 2: _____
City: KIOWA State: KS Zip: 67070 + 1912
Contact Person: Ron Molz
Phone: (620) 825-4030
CONTRACTOR: License # 34233
Name: Maverick Drilling LLC
Wellsite Geologist: Arden Ratzlaff
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 #: _____

06/13/2010	06/25/2010	07/31/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-23544-00-00

Spot Description: _____
NW SE NE SE Sec. 36 Twp. 34 S. R. 12 East West
1857 Feet from North / South Line of Section
627 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Barber
Lease Name: Yates A Well #: 3

Field Name: _____
Producing Formation: Mississippian

Elevation: Ground: 1365 Kelly Bushing: 1374

Total Depth: 5411 Plug Back Total Depth: 5362

Amount of Surface Pipe Set and Cemented at: 340 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: 10000 ppm Fluid volume: 1200 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite: _____

Operator Name: Molz Oil Co., Inc.

Lease Name: Gamer SWD License #: 6006

Quarter NW Sec. 11 Twp. 33 S. R. 10 East West

County: Barber Permit #: D-28060

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: Deanna Gerriss Date: 08/07/2012



1088559

Operator Name: Chieftain Oil Co., Inc. Lease Name: Yates A Well #: 3
 Sec. 36 Twp. 34 S. R. 12 East West County: Barber

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: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	17.25	13.375	24	305	60/40 Poz	340	2% Salt
Production	7.875	5.5	15.5	5408	Common	200	Gas Block 2% Salt

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
4	4710-4750	1500 Gal. 7-1/2% HCL Acid	4710-4750
		1500 Gal. 15% HCL Acid	4710-4750
		Frac 25,000 BBLS Slickwater	
		411,000# Sand	

TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>4800</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	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

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	CY 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 JOB CONTACT
E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40199908	19905		Net - 30 days	07/29/2010	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 06/27/2010 to 06/27/2010</i>					
0040199908					
171802204A Cement-New Well Casing/Pi 06/27/2010 Longstring					
ENTERED JUL 06 2010 92/BC					
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
PLEASE REMIT TO:				SEND OTHER CORRESPONDENCE TO:	
BASIC ENERGY SERVICES, LP		BASIC ENERGY SERVICES, LP		SUB TOTAL	9,997.41
PO BOX 841903		PO BOX 10460		TAX	337.70
DALLAS, TX 75284-1903		MIDLAND, TX 79702		INVOICE TOTAL	10,335.11



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 AM TIME
19,866	75					6-26-10	6:00
						ARRIVED AT JOB	6-26-10 8:30
19,903-19,905	75					START OPERATION	6-27-10 3:30
						FINISH OPERATION	6-27-10 4:15
19,821-19,808	75					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	\$ 17.00	\$ 3,400.00
P CP 103	60/40 Poz Cement	sh	50	\$ 12.00	\$ 600.00
P CC 105	Defoamer	Lb	38	\$ 4.00	\$ 152.00
P CC 111	Salt (Fine)	Lb	990	\$ 0.05	\$ 49.50
P CC 115	Gas Blok	Lb	188	\$ 5.15	\$ 968.20
P CC 129	FLA-322	Lb	151	\$ 7.50	\$ 1,132.50
P CC 201	Gilsonite	Lb	1,000	\$ 0.67	\$ 670.00
P CF 607	Latch Down Plug and Baffle, 5 1/2"	ea	1	\$ 400.00	\$ 400.00
P CF 125	Auto Fill Float Shoe, 5 1/2"	ea	1	\$ 360.00	\$ 360.00
P CF 165	Turbolizer, 5 1/2"	ea	1	\$ 770.00	\$ 770.00
P CF 190	Basket, 5 1/2"	ea	2	\$ 290.00	\$ 580.00
P C 704	CS-1L HCL	Gal	5	\$ 27.50	\$ 137.50
P CG 151	Mud Flush	Gal	500	\$ 8.60	\$ 430.00
P CC 155	Super Flush II	Gal	500	\$ 1.53	\$ 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:
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(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



TREATMENT REPORT

Lease No. **1 NC** Date **6-27-10**
 Well # **3**
 Client **Wheaton Oil Company, Inc.**
 Station **Pratt, Kansas** Casing **5 1/2** Depth **5,408** County **Barber** State **Kansas**
 Field Order # **2204** Type Job **C.N.W. - Longstring** Formation **36-345-12W**

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 3 1/2	Shots/Ft	200 sacks AA-2 with 28 De		DATE	PRESS	181P	
Depth 5,408 Feet	Depth	From	To	1085	5 Lb./ft.	5 Min.	FLA-322	
Volume 28.7 Bbl.	Volume	From	To	5 Lb./Gal.	6.23 Gal./ft.	1.44 CU.FT./ft.	5 Min.	
Max Press 1500	Max Press	From	To				10 Min.	
Well Connection Flu Container	Annulus Vol.	From	To	50 sacks 60/40 Poz to	HHP Used		Annulus Pressure	
Plug Depth 5,366 Feet	Packer Depth	From	To	Flush 127 Bbl. 28 HCL	Plug Rat	(30sts) and Mouse (20sts) holes	Total Load	

Customer Representative **Rob Raleigh** Station Manager **David Scott** Treater **Clarence R. Messick**
 Service Units **19,866 19,903 19,905 19,831 19,908**
 Driver Names **Messick Mattal Coleman**

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 Lalc 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 top 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 (30sts) and Mouse (20sts) holes.
5:00					Wash up pump truck.
					Job Complete.



PAGE	CP NO	INVOICE DATE
1 of 1	1000719	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
 E JOB CONTACT

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	1,835.85 T
60/40 POZ	85.00	EA	1.66	141.51 T
Additives	879.00	EA	0.47	415.29 T
Cello-flake	100.00	MI	3.15	314.97
Calcium Chloride	733.00	MI	0.72	527.71
Calcium Chloride	340.00	MI	0.63	214.18
Mileage	50.00	HR	1.91	95.62
Heavy Equipment Mileage	1.00	HR	449.96	449.96
Mileage	1.00	HR	78.74	78.74
Proppant & Bulk Delivery Charges				
Mileage				
Blending & Mixing Service Charge				
Pickup				
Unit Mileage Charge-Pickups, Vans & Cars				
Pump Charge-Hourly				
Depth Charge: 0-500'				
Supervisor				
Service Supervisor				
PLEASE REMIT TO:		SEND OTHER CORRESPONDENCE TO:		
BASIC ENERGY SERVICES, LP		BASIC ENERGY SERVICES, LP		SUB TOTAL 4,073.83
PO BOX 841903		PO BOX 10460		TAX 150.74
DALLAS, TX 75284-1903		MIDLAND, TX 79702		INVOICE TOTAL 4,224.57

PAID
 JUN 17 2010
 9121 BL



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

00-10114516
FIELD SERVICE TICKET
1718 02131 A

DATE _____ TICKET NO. _____

DATE OF JOB: <u>06-13-10</u> DISTRICT: <u>PRATT</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>Chicktown OIL</u>		LEASE: <u>YATES A3</u>		WELL NO.:		
ADDRESS:		COUNTY: <u>BARBER</u>		STATE: <u>KS</u>		
CITY:		STATE:		SERVICE CREW: <u>Sullivan, Moberly, WALL</u>		
AUTHORIZED BY:		JOB TYPE: <u>CNW CONTRACTOR 13 3/8</u>				
EQUIPMENT#	HRS.	EQUIPMENT#	HRS.	EQUIPMENT#	HRS.	TRUCK CALLED <u>06-13-10</u> DATE <u>06-13-10</u> TIME <u>1030</u>
<u>19959/206107</u>	<u>35</u>					ARRIVED AT JOB <u>06-13-10</u> TIME <u>1130</u>
<u>19832/21010</u>	<u>35</u>					START OPERATION <u>06-13-10</u> AM <u>1830</u>
<u>19867</u>						FINISH OPERATION <u>06-13-10</u> AM <u>1705</u>
						RELEASED <u>06-13-10</u> AM <u>1730</u>
						MILES FROM STATION TO WELL <u>50</u>

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
CP 103	60/40 p.2	SK	340		4080 00
CC 102	Cell take	lb	85		314 50
CC 109	Calcium chloride	lb	879		922 95
E 100	Packup mule	mi	50		212 50
E 101	Heavy Scot mule	mi	100		700 00
E 113	Bulk Pumping	TW	733		1,172 00
CE 200	Depth change 0-500'	SK	1		1,000 00
CE 240	Blending - mixing change	SK	340		476 00
S 003	Service Expense	FA	1		175 00

CHEMICAL / ACID DATA:			

			SUB TOTAL
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
		Thank you	TOTAL \$ 4,073 83

SERVICE REPRESENTATIVE: <u>Robert J. [Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------

FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer: <i>Chifton Oil</i>	Lease No.	Date: <i>06-13-10</i>
Lease: <i>44725</i>	Well #: <i>A-3</i>	
Field Order #: <i>2131</i>	Station: <i>PR-4</i>	Casing: <i>3/4</i>
		Depth: <i>305</i>
Type Job: <i>Conductor</i>	Formation	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>298.8'</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 SCOR</i>	Treater: <i>Robert [Signature]</i>
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Service Units	<i>19867</i>	<i>19959</i>	<i>20920</i>	<i>19832</i>	<i>21010</i>				
Driver Names	<i>Sullivan</i>	<i>Melson</i>		<i>NALL</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1430</i>					<i>ON LOC READY TO START</i>
					<i>RUN TO J.T.S 13 3/8 48" CSF</i>
<i>1515</i>					<i>CASING ON BOTTOM</i>
<i>1520</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>cmt mixed</i>
					<i>It Drop</i>
<i>1905</i>	<i>200</i>		<i>45 1/2</i>		<i>plug down</i>
					<i>circulated 12 BBL 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
Klona, 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: **Misenier**
 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**

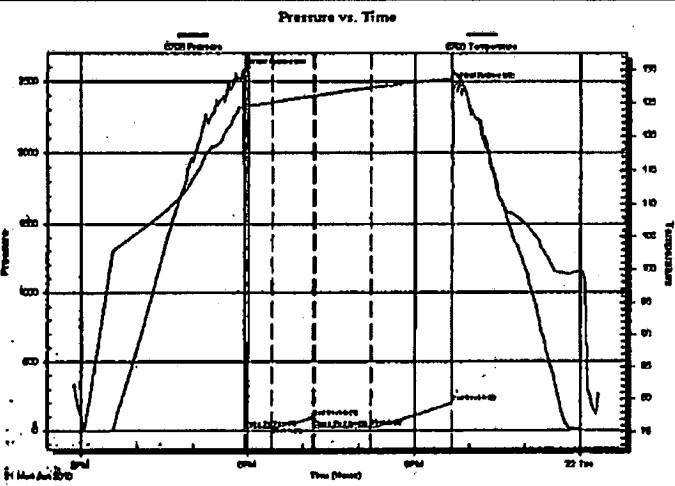
Serial #: **6798**

Inside

Press @ Run Depth: **23.36 psig @ 5055.00 ft (KB)**
 Start Date: **2010.06.21** End Date: **2010.06.22**
 Start Time: **14:52:06** End Time: **00:21:35**

Capacity: **8000.00 psig**
 Last Calib.: **2010.06.22**
 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: Weak blow. Built to 3".
 FS: No blow.



PRESSURE SUMMARY

Time (Min.)	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%w	0.21
0.00	50' GP	0.00

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mc/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 Wl. 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
Kow a, 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:

bbf

Water Loss: 8.37 in³

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 bbf
15.00	2%g 98%w	0.210
0.00	50' GIP	0.000

Total Length: 15.00 ft

Total Volume: 0.210 bbf

Num Fluid Samples: 0

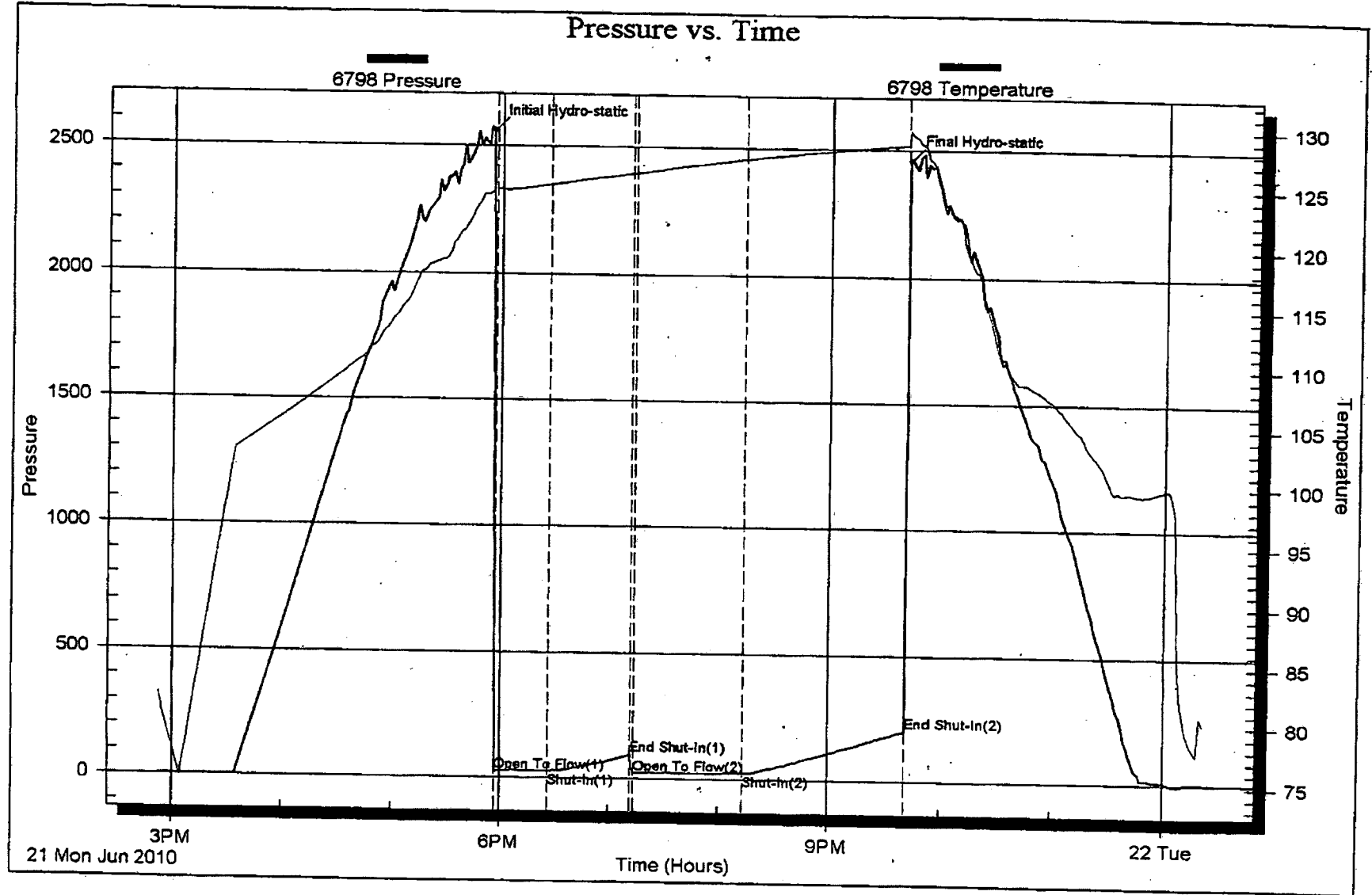
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Company, Inc.
 P.O.Box 124
 Klowa, KS 67070
 ATTN: Arden Ratzlaff

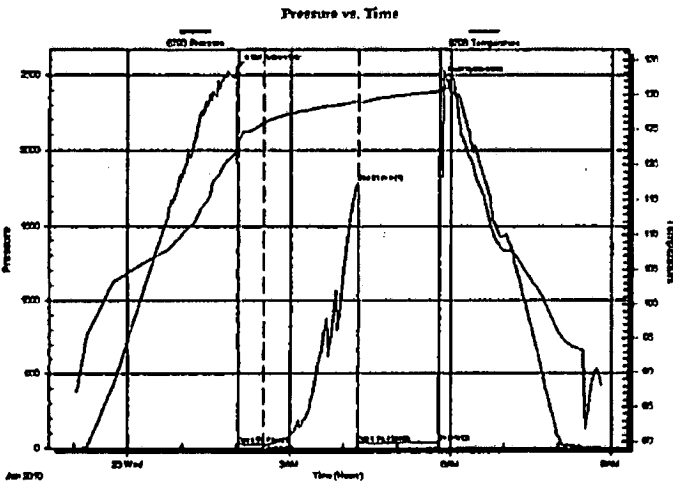
Yates A #3
 36-34s-12w Barber KS
 Job Ticket: 36916 DST#: 2
 Test Start: 2010.06.22 @ 23:02:11

GENERAL INFORMATION:

Formation: Simpson
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 02:02:41
 Time Test Ended: 08:49:41
 Interval: 5179.00 ft (KB) To 5216.00 ft (KB) (TVD)
 Total Depth: 5216.00 ft (KB) (TVD)
 Hole Diameter: 7.88 Inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Jerry Adams
 Unit No: 45
 Reference Elevations: 1374.00 ft (KB)
 1365.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6798 Inside
 Press@RunDepth: 24.67 psig @ 5180.00 ft (KB)
 Start Date: 2010.06.22 End Date: 2010.06.23
 Start Time: 23:02:12 End Time: 08:49:41
 Capacity: 8000.00 psig
 Last Calib.: 2010.06.23
 Time On Btm: 2010.06.23 @ 02:00:41
 Time Off Btm: 2010.06.23 @ 05:47:41

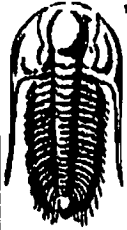
TEST COMMENT:
 IF: Fair blow. Built to 11".
 IS: Fair blow. B.O.B. in 39 mins.
 FF: Weak blow. Steady at 1".
 FS: Strong blow. B.O.B. immediately.



PRESSURE SUMMARY			
Time (Mn.)	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	SGCOilMud 12%g 37%o 51%w	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

Chiefain 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

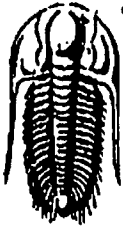
Tool Information

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

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

Chieftrain 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:

bbbl

Water Loss: 9.97 in²

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 bbbl
45.00	SGOilyMud 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

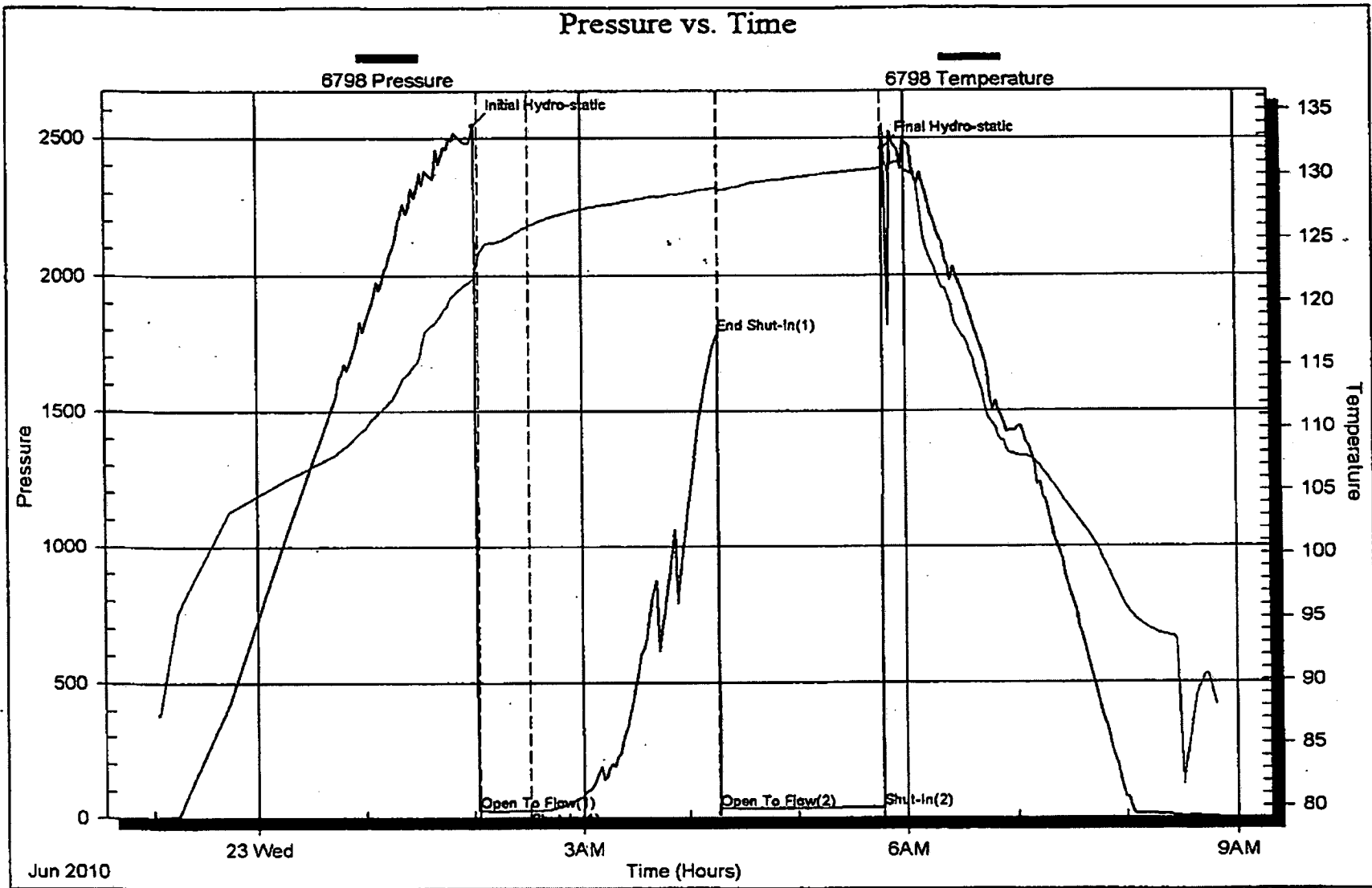
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chiefain Oil Company, Inc.

Yates A #3

P.O. Box 124
Kow a, KS 67070

36-34s-12w Barber KS

Job Ticket: 36917 DST#: 3

ATTN: Arden Ratzlaff

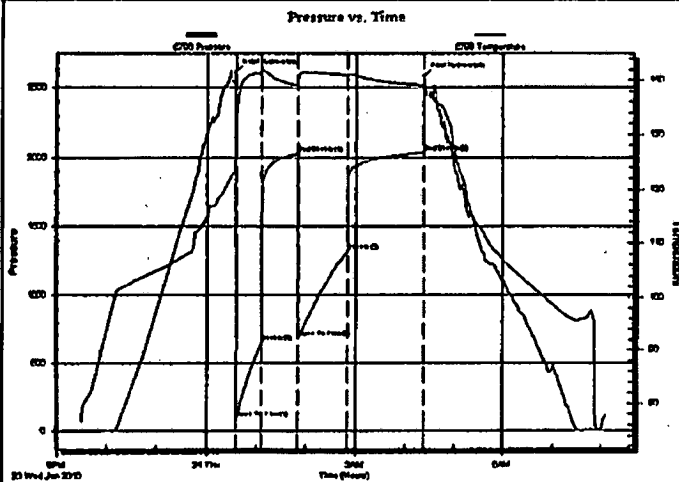
Test Start: 2010.06.23 @ 21:29:39

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **00:35:09**
 Tester: **Jerry Adams**
 Time Test Ended: **08:07:09**
 Unit No: **45**
 Interval: **5225.00 ft (KB) To 5238.00 ft (KB) (TVD)**
 Reference Elevations: **1374.00 ft (KB)**
 Total Depth: **5238.00 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: **1315.75 psig @ 5226.00 ft (KB)**
 Capacity: **8000.00 psig**
 Start Date: **2010.06.23** End Date: **2010.06.24**
 Last Calib.: **2010.06.24**
 Start Time: **21:29:40** End Time: **08:07:09**
 Time On Btm: **2010.06.24 @ 00:33:39**
 Time Off Btm: **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 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 (Mcfd)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

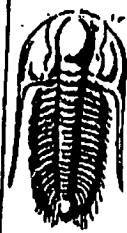
Tool Information

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

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
Kiowa, 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 in*

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	SMDW 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

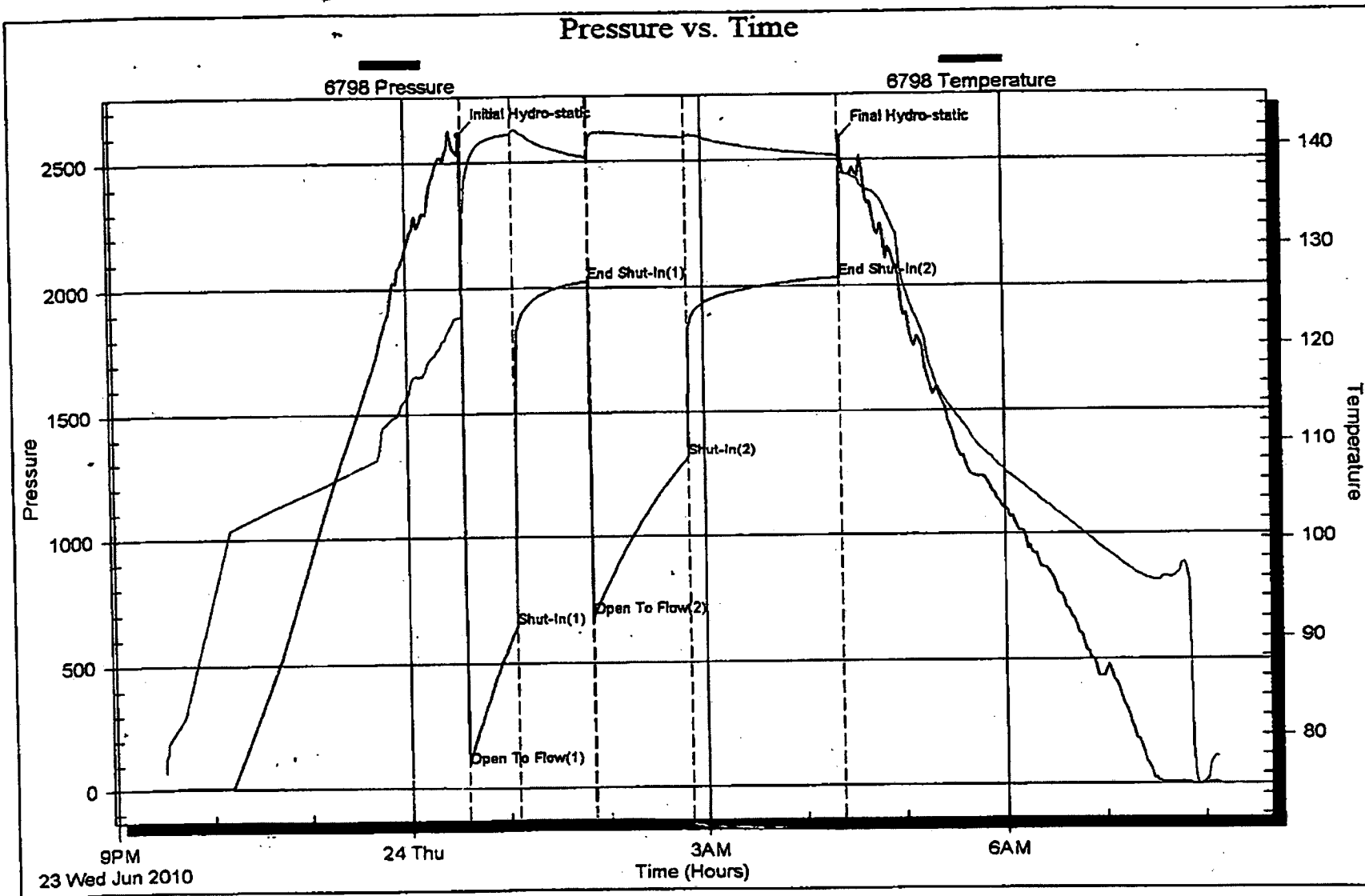
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



Arden Ratzlaff

PETROLEUM GEOLOGIST

Phone 262-8938

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

DRILLING TIME AND SAMPLE LOG

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

ELEVATIONS
 KB 1374
 BF 1372
 EL 1365
 Measurements Are All
 From K. B.

CONTRACTOR MAYERICK DRILLING RIG NO. 106
 COMMENCED DRILLING 6-18-10
 COMPLETED DRILLING 6-25-10
 RTH 6-10 FEET LTD FEET
 MUD UP AT 2300 FEET MUD TYPE CARBONAL

CASING
1 3/4" @ 305' W. 240 SX
5 1/2" @ 5408' W. 200 SX










ELECTRICAL SURVEYS
 SUPERIOR-GAMMARAY DUAL
 INDUCTION COMPENSATED MUDLOG
 (DENSITY, S.P. & CALIPER)

FORMATION TOPS	SAMPLE	ELECTRIC LOG
CHEROKEE	3764 (-2890)	3765 (-2391)
SPARK	4408 (-3074)	4404 (-3070)
NEAR KANSAS CITY	4512 (-3138)	4528 (-3134)
CHEROKEE	4664 (-3290)	4663 (-3289)
MISSISSIPPIAN	4711 (-3337)	4709 (-3335)
HENDERSON	4962 (-3588)	4950 (-3586)
VIDA	5424 (-3750)	5120 (-3746)
SIMPSON	5203 (-3879)	5210 (-3886)
SIMPSON SAND	5224 (-3880)	5228 (-3884)
TOTAL DEPTH	5410 (-4054)	5411 (-4057)

REMARKS AFTER ANALYZING THE DRILLING INFO. ESPECIALLY THE MUDLOGGING, SHOWS A THE HIGHEST PRODUCTION IN THE AREA. IT WAS DECIDED THAT CASING BE CEMENTED IN SUBSEQUENCE OF COMMERCIAL PRODUCTION.

Arden Ratzlaff, Petroleum Geologist
 NOTE: NATIVE AMERICAN SUBMERGED THE MUD - TRILOBITE THE DRILL STEELERS - SAMPLES RECORDED AT THE K.G.S. SERVICE.

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone
-  Coll. line
-  Chert
-  Dolomite

DRILLING TIME IN MINUTES
 PER FOOT
 Rate of Penetration Increases

LITHOLOG

19

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5' 10' 15' 20' 25'

SAMPLE DESCRIPTIONS

REMARKS

SILTY SAND TO SILTY SAND WITH CRUMBLING
IN SCOT. BLUE GRAY TO BROWN SILTY SAND
TO BROWN SILTY SAND

SILTY SAND TO SILTY SAND WITH CRUMBLING
SCOT. BLUE GRAY TO BROWN SILTY SAND
TO BROWN SILTY SAND

SILTY SAND TO SILTY SAND WITH CRUMBLING
SCOT. BLUE GRAY TO BROWN SILTY SAND
TO BROWN SILTY SAND

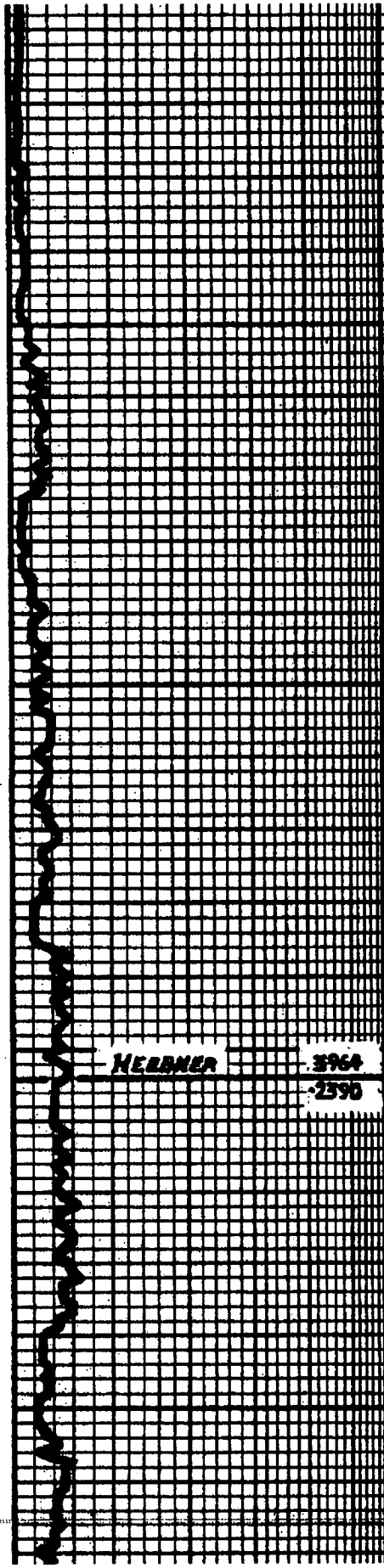
SILTY SAND TO SILTY SAND WITH CRUMBLING
SCOT. BLUE GRAY TO BROWN SILTY SAND
TO BROWN SILTY SAND

SILTY SAND TO SILTY SAND WITH CRUMBLING
SCOT. BLUE GRAY TO BROWN SILTY SAND
TO BROWN SILTY SAND

SILTY SAND TO SILTY SAND WITH CRUMBLING
SCOT. BLUE GRAY TO BROWN SILTY SAND
TO BROWN SILTY SAND



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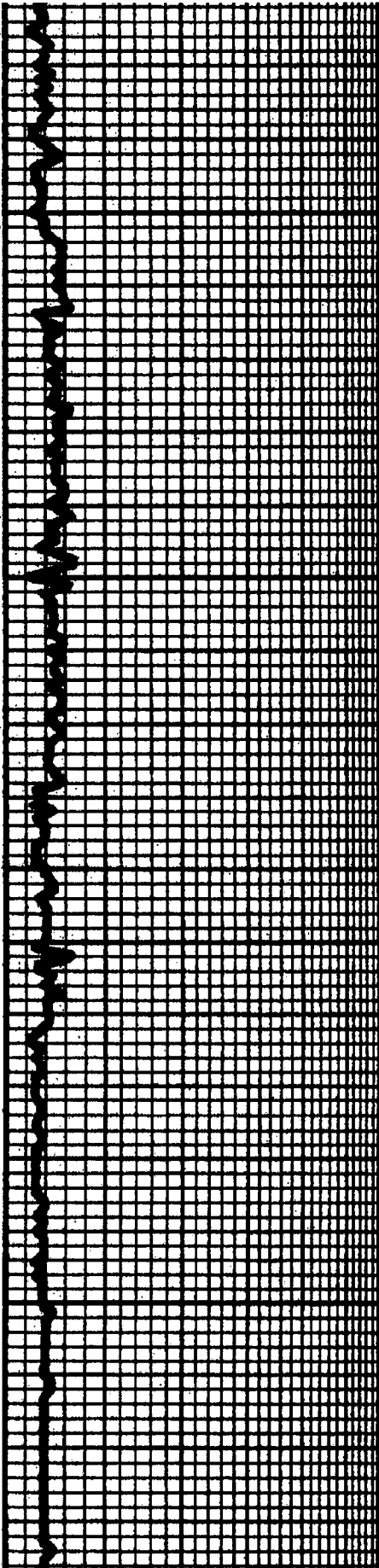
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SOME PARTS IN 1/2" OR 1/4" IN 1/2" ABOVE

IN THE TOP PART OF THE SUB-CRUSTAL LAYER
 WHICH IS THICKER & LIGHTER IN THE WEST THAN IN
 THE EAST - BUT, PARTS IN WEST. SU

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SOME PARTS IN THE CON. SUB-CRUSTAL LAYER
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IN ALL ABOVE - SOME MORE GRY. SU
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IN THE WEST PART OF THE LAYER EN. YN. SUB-
 CRUSTAL LAYER & LIGHTER IN THE WEST THAN
 IN THE EAST SU

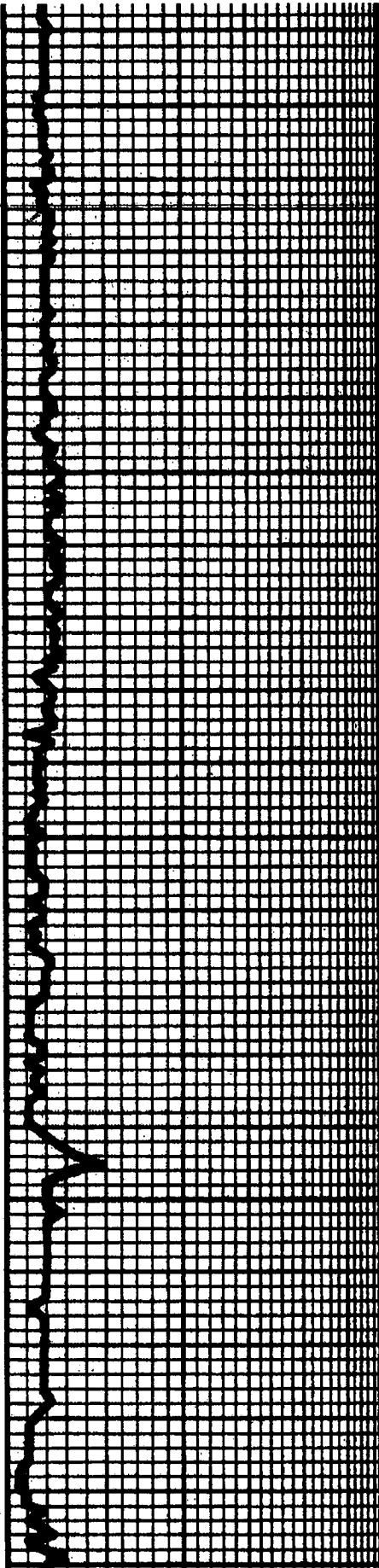
SOME PARTS OF THE CON. SUB-CRUSTAL LAYER
 & MORE EN. YN. SUB-CRUSTAL LAYER
 DENSE & HARD

SOME PARTS ABOVE

SOME PARTS IN THE WEST PART OF THE LAYER
 EN. YN. SUB-CRUSTAL LAYER & LIGHTER IN THE WEST
 THAN IN THE EAST SU



40
60
80
4100
20
40
60
80
4200
20
40



SILTY SAND IN SORT SAND FINE SAND
HARD LN

SILTY SAND IN SORT SAND FINE SAND
HARD LN

SILTY SAND IN SORT SAND

SILTY SAND IN SORT SAND FINE SAND
HARD LN

SILTY SAND IN SORT SAND FINE SAND
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SILTY SAND IN SORT SAND FINE SAND
HARD LN

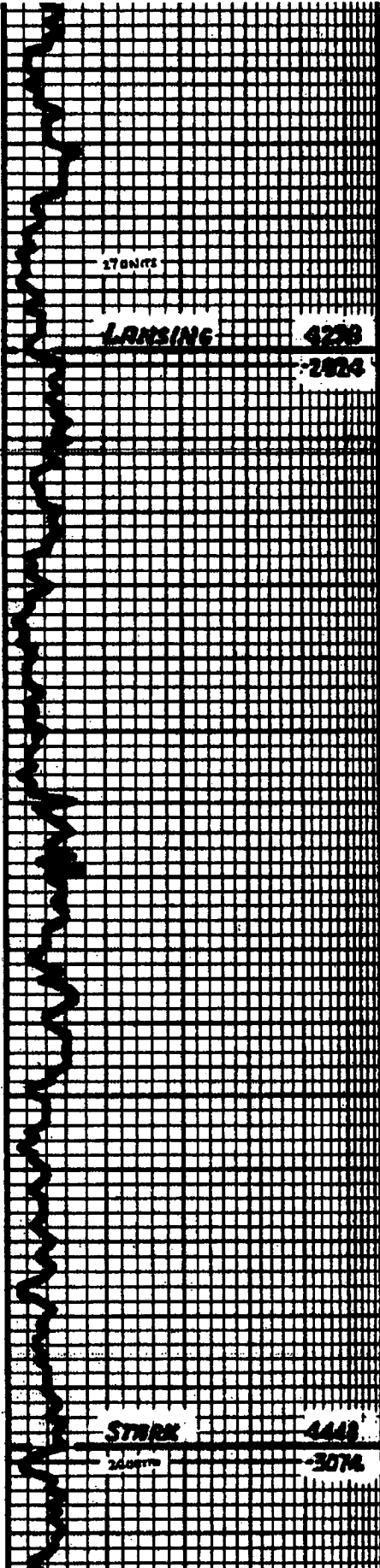
SILTY SAND IN SORT SAND FINE SAND
HARD LN

SILTY SAND IN SORT SAND FINE SAND
HARD LN

SAME AS ABOVE



60
80
4300
20
40
60
80
4400
20
40
60



170000

LANSING **4278**
-2024

STARK **4448**
-3074

SH. WED TO BY GRY GRY CON CON TO GRY
& BY GRY SCOT GRY BLUE GRY TAN GRY
EN XIA SUB-PALY TO DENSE HARD LN

SH. WED AT ABOVE DENS BY X. N. CORR
(GAS BUBBLES) SH

LN. WIL FROM BLUE LT GRY EN YIN. BORN
CHLY & SUB-CHLY TO CAR DENSE HARD LN
STILL ADD LN CORR. SH

LN. WIL FROM BLUE GRY TAN & BORN. D1
YIN SUB-CHLY & TO CHLY TO DENSE &
HARD - STILL GRY ABOVE

WED AT ABOVE IN DENS SH

LN. WIL FROM EN YIN DENSE CORRAL
CHLY & SUB-CHLY IN LT GRY BLUE LT TAN
EN YIN BORN DENSE & HARD

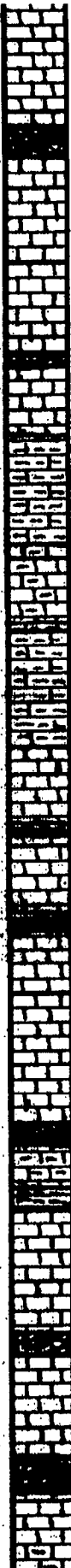
LN. WIL FROM BLUE LT GRY TAN EN XIA
SUB-CHLY & TO CHLY TO DENSE & HARD

LN. FROM BLUE GRY TAN EN YIN SUB-
CHLY TO DENSE DENSE HARD & CHLY
IN Y. SCOT LT GRY GRY TAN SUBP. SUB-
TANAL CHLY

LN. BLUE GRY TAN & BORN EN YIN BORN
DENSE & HARD IN Y. SCOT WIL & CORR,
SUB-CHLY & CHLY LN

LN. AT ABOVE IN WIL IN DENSE CORAL CHLY
& SUB-CHLY SCOT BIL CORR CH

LN. WIL FROM BLUE GRY TAN EN YIN



80
4500
20
40
60
80
4600
20
40
60

HUNSPUCKNEY 4482

42 LBWTS -3108

COAL & SUBSOLUBLE TO 1000' IN COAL
IN SO. W. COR. 50'

TAKE IN CONT. IN V. COR. (GAS BRUIKES)
50'

BREE K.C. 4512

-3758

10' AS ABOVE IN 17' BKT. (700' FROM)
SING. SUB. TRANS. CLIP

TAKE AT ABOVE IN SO. W. COR. 50'

ALTA MONT. 4591

(-3217)

10' IN COAL BRUIKES (700' FROM) IN V. COR.
SING. CLIP & TO CLIP TO DENCE & RUBBING
TAKE TO CO. COAL (CLIP IN HAND) 100'
COAL COR. 50'

10' COAL BRUIKES (700' FROM) IN V. COR.
CLIP TO DENCE & RUBBING IN HAND TO CO. COAL
COR. 50' IN 50'

10' IN COAL BRUIKES (700' FROM) IN V. COR.
CLIP & TO CLIP TO DENCE & RUBBING
IN HAND TO CO. COAL COR. 50' IN 50'

10' IN AS ABOVE (AFTER BIT TRIP)

PARINEE 4650

-3256

50' ALL COR. IN SO. W. COR. (700' FROM) IN V. COR.
COAL BRUIKES (700' FROM) IN V. COR. (GAS BRUIKES)
IN SO. W. COR. (GAS BRUIKES) IN HAND TO CO. COAL
COR. 50' IN 50'

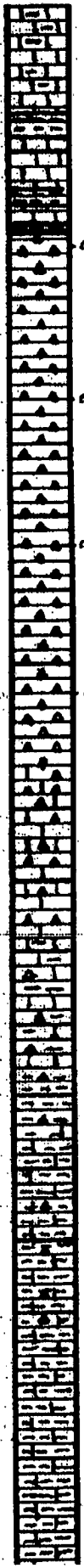
10' AS ABOVE - PROD. DENCE ABOVE

CHEROKEE 4666

-3290

10' COAL BRUIKES (700' FROM) IN V. COR. (GAS BRUIKES)
& DENCE & RUBBING IN HAND TO CO. COAL COR. 50'

BIT TRIP @ 4615'
STEAD PIPE @ 4665'
BOARD 4619.47'
STEAD 4615.07'
STEAD SHORT .40'
STRAIGHT HOLE SURVEY 4615'
DEVIATION: 1°



4700
 20
 40
 60
 80
 4800
 20
 40
 60
 80

MISSISSIPPIAN 4711

40 UNITS

3957

100' UNITS

100' UNITS

100' UNITS

1 IN. ABOVE IN. IN. TO BY. GY. GY.
GOL. ALY. CR. IN. B. GY. CR. GY.

1 IN. IN. BY ABOVE

100' - SOME AS ABOVE IN. BY. GY. & THIS SAND
SAND. SAND. ON. AND. ALY. CR. GY. GY. GY. GY. GY.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

100' - SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
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100' - SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
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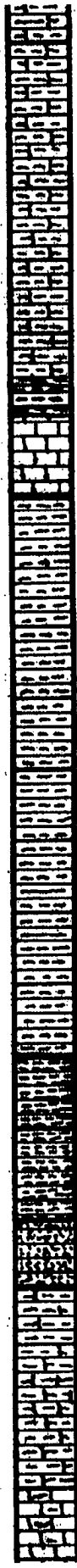
1 IN. CR. SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

1 IN. IN. & SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.

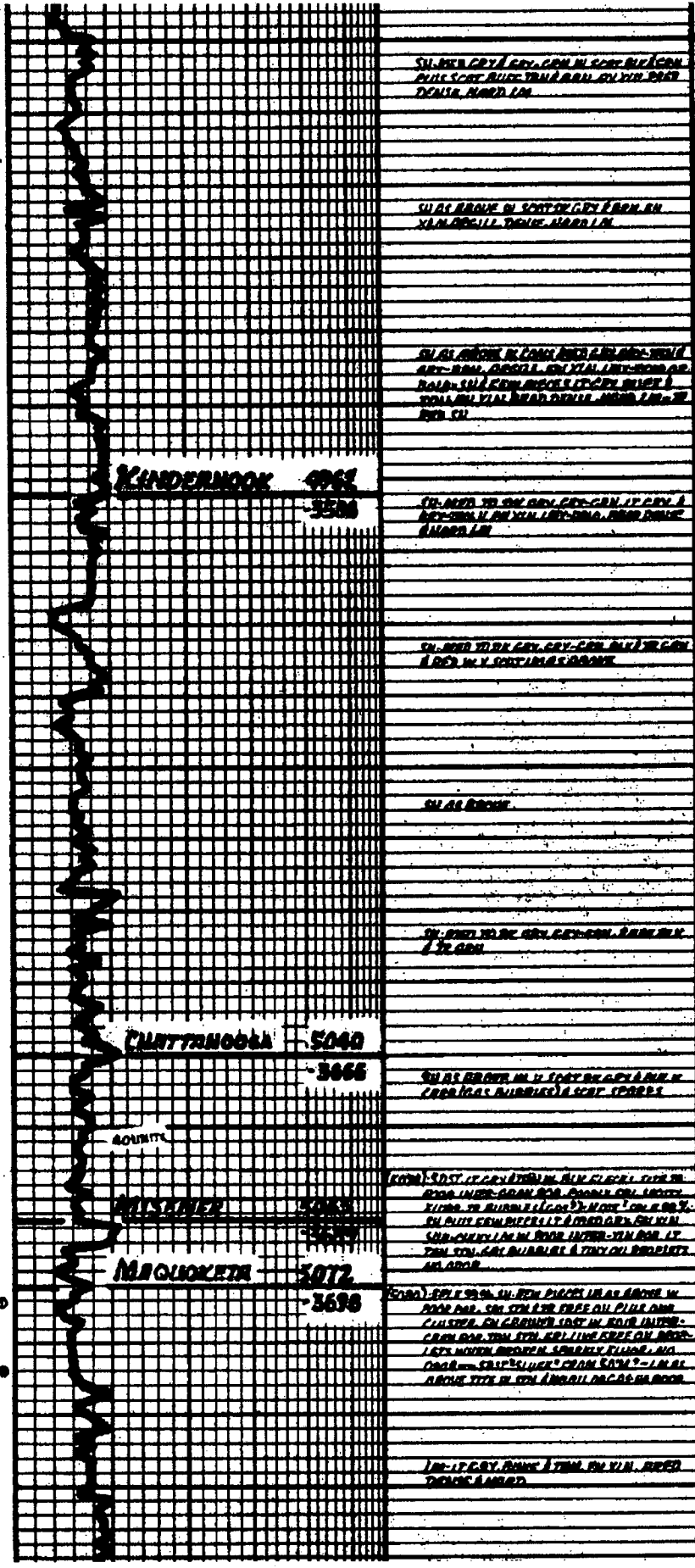
1 IN. SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
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1 IN. SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.
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SAND. SAND. SAND. SAND. SAND. SAND. SAND. SAND.



4900
20
40
60
80
5000
20
40
60
80
5100



SILICEOUS / GRY. CON. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

SILICEOUS BUL. SORT. GRY. FERN. LN.
VIB. BUL. TRAIL. BUL. HARD LN.

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

KANDERNOK 4965
-3598

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

CHITTANOOGA 5040
-3666

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

WILSON 5075
-3742

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

MAGUOKETH 5072
-3738

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

SILICEOUS BUL. CON. BUL. IN SORT. BUL. CON
DULL SORT. BUL. TRAIL. BUL. IN VIB. DEEP
DENSE. HARD LN.

DST No. 1 (5054-5084)
30-45-60-90
WEAK BLOW TO 4 3/4" IN
BUCKET (1 1/2" OPEN)
WEAK BLOW TO 3" IN
BUCKET (2 1/2" OPEN)
REC: 15 FEET VERY SLIGHTLY
GAS CUT MUD 450' GAS IN
THE PIPE.
ISIP/04" FSIP/199"
LFP/22-25" FFW/21-25"
TEMP: 128°F.
STRAIGHT HOLE SURVEY 5084'
DEVIATION = 3/4"

