



KANSAS CORPORATION COMMISSION 1074969
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 # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: David A. Barker
Purchaser: Coffeyville Resources

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 #: _____

09/20/2011	09/30/2011	10/13/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-23718-00-00

Spot Description: _____
NW SE SW NW Sec. 18 Twp. 33 S. R. 10 East West
2260 Feet from North / South Line of Section
850 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Barber
Lease Name: Jake Well #: 2

Field Name: _____
Producing Formation: Mississippi

Elevation: Ground: 1621 Kelly Bushing: 1629

Total Depth: 5235 Plug Back Total Depth: 5177

Amount of Surface Pipe Set and Cemented at: 328 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: Chieftain Oil Co., Inc.

Lease Name: Gamer SWD License #: 33235

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 Gantao Date: 03/01/2012



1074969

Operator Name: Chieftain Oil Co., Inc. Lease Name: Jake Well #: 2
 Sec. 18 Twp. 33 S. R. 10 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 type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Attached Top Attached Datum Attached
---	--

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	10.75	8.625	24	328	60/40 POZ	300	2% Salt
Production	7.875	5.50	15.5	5235	Common	229	2% Salt Gas Block

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	4658-4668 4676-4688	1000 Gal. 7-1/2% Acid	4658-4712
2	4706-4712	1500 Gal. 15% Acid	4658-4712
		Frac 368000# Sand w/ 22500 BBLS Slick Water	

TUBING RECORD:	Size: <u>2-7/8</u>	Set At: <u>4750</u>	Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	--------------------	---------------------	------------------	---

Date of First, Resumed Production, SWD or ENHR. <u>01/01/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>20</u>	Gas Mcf <u>80</u>	Water Bbls. <u>200</u>	Gas-Oil Ratio _____	Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" 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: _____ _____
--	---	--

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Jake 2
Doc ID	1074969

All Electric Logs Run

Sector Bond / Gamma Ray Log
Geological Log
Micro Log
Compensated Density / Neutron Log
Dual Induction Log

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Jake 2
Doc ID	1074969

Tops

Heebner	3752	-2123
Lansing	3951	-2322
Stark Sh	4418	-2789
Hushpuckney Sh	4445	-2816
Base Kansas City	4478	-2849
Altamont	4515	-2886
Pawnee	4588	-2959
Cherokee	4635	-3006
Mississippian	4660	-3031
Kinderhook	4880	-3251
Viola	4992	-3363
Simpson	5082	-3453
Simpson Sd.	5098	-3469
Total Depth	5235	



PAGE	CUST NO	INVOICE DATE
1 of 1	10U0719	09/22/2011
INVOICE NUMBER		
1718 - 90705481		

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

J LEASE NAME Jake 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
40372411	20920		Net - 30 days	10/22/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/20/2011 to 09/20/2011</i>				
0040372411				
171805079A Cement-New Well Casing/Pi 09/20/2011				
8 5/8" Surface				
60/40 POZ	300.00	EA	12.00	2,843.74 T
Cello-flake	75.00	EA	3.70	219.20 T
Calcium Chloride	774.00	EA	1.05	641.97 T
Wooden Cement Plug 8 5/8"	1.00	EA	160.00	126.39
Unit Mileage Charge-Pickups, Vans & Cars	45.00	HR	4.25	151.07
Heavy Equipment Mileage	90.00	MI	7.00	497.65
Proppant and Bulk Delivery Charges	581.00	MI	1.60	734.31
Depth Charge 0-500'	1.00	HR	1,000.00	789.93
Blending & Mixing Service Charge	300.00	MI	1.40	331.77
Plug Container Utilization Charge	1.00	EA	250.00	197.48
Supervisor	1.00	HR	175.00	138.24

ENTERED
 SEP 27 2011
 912180

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,671.75
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	270.46
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	6,942.21
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 05079 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>9-20-11</u> DISTRICT <u>Pratt KS</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>Ch. of Gain Oil Co.</u>		LEASE <u>SAKE</u> WELL NO. <u>2</u>							
ADDRESS		COUNTY <u>BARBER</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Sullivan, M. & J. & J.</u>							
AUTHORIZED BY		JOB TYPE: <u>CW 3 5/8 Service</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>53704-20920</u>	<u>2</u>					<u>9-19-11</u>	<u>9-19-11</u>	<u>AM</u>	<u>5:30</u>
<u>19831-19867</u>	<u>1</u>					ARRIVED AT JOB	<u>9-19-11</u>	<u>AM</u>	<u>11:00</u>
<u>37900</u>						START OPERATION	<u>9-20-11</u>	<u>AM</u>	<u>2:25</u>
						FINISH OPERATION	<u>1</u>	<u>PM</u>	<u>2:30</u>
						RELEASED		<u>PM</u>	<u>2:45</u>
						MILES FROM STATION TO WELL			<u>45</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: Sullivan
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 grt. cement	SK	300		3,600.00
CC 102	Cellulose	lb	75		277.50
CC 109	Calcium chloride	lb	774		812.70
CF 153	Wooden plug 8 5/8	EA	1		160.00
E 100	Pickup mixture	m.	45		191.25
E 101	Heavy cement mixture	m.	90		630.00
E 113	Bulk Dohing	TN	581		929.90
PE 200	Depth Charge 0-500	EA	1		1,000.00
PE 240	Blending mixture	SK	300		420.00
PE 304	plug cement (sulfonated) "1"	EA	1		250.00
SC03	Sodium Sulfonate	EA	1		175.00

SUB TOTAL

CHEMICAL / ACID DATA:			

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

Thank you

TOTAL

6,671.95

SERVICE REPRESENTATIVE Robt. J. Sullivan

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>Chittam Oil Co.</i>	Lease No.	Date
Lease <i>TAKE</i>	Well # <i>2</i>	<i>9-20-11</i>
Field Order # <i>507</i>	Station <i>PRATH KS</i>	Casing <i>5 7/8</i>
Type Job <i>CNW 8 5/8 Surface</i>	Formation	Legal Description <i>18-38-70</i>
	Depth <i>327'</i>	County <i>BARBER</i>
		State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>5 7/8</i>								5 Min.
Depth <i>327'</i>	Depth	From	To	Pre Pad		Max		
Volume <i>70</i>	Volume	From	To	Pad		Min		10 Min.
Max. Press <i>300</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>PC</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>327'</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SECH</i>	Treater <i>Robert Sullivan</i>
-------------------------	----------------------------------	--------------------------------

Service Units	<i>37900</i>	<i>33708</i>	<i>22970</i>	<i>19821</i>	<i>19862</i>				
Driver Names	<i>Sullivan</i>	<i>Melton</i>	<i>Young</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:00</i>	<i>100</i>				<i>on loc safety meeting</i>
					<i>Run 8 5/8 8 7/8 24 CSU</i>
<i>1:50</i>					<i>Casing on Bottom</i>
<i>2:00</i>					<i>Hook Dip circ.</i>
<i>2:05</i>	<i>200</i>		<i>3</i>	<i>4</i>	<i>St Sprites</i>
			<i>64</i>	<i>5</i>	<i>mix cont 200 sk 60/40 per cont</i>
					<i>cont mixed Shut down</i>
					<i>Release Plug</i>
				<i>4</i>	<i>St Desc</i>
<i>2:30</i>	<i>200</i>		<i>20</i>		<i>plug Down</i>
					<i>circ 10. Bbl cont to pit</i>
					<i>SOB complete</i>
					<i>Thank you</i>



PAGE 1 of 1	CHIT NO 1000719	INVOICE DATE 10/05/2011
INVOICE NUMBER 1718 - 90718770		

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

J LEASE NAME Jake #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
40378847	20920		Net - 30 days	11/04/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 10/01/2011 to 10/01/2011</i>				
0040378847				
171804461A Cement-New Well Casing/Pi 10/01/2011				
5 1/2" Longstring				
AA2 Cement	275.00	EA	13.43	3,693.16 T
De-foamer(Powder)	52.00	EA	3.16	164.32 T
Salt(Fine)	1,364.00	EA	0.39	538.77 T
Gas-Blok	259.00	EA	4.07	1,053.72 T
FLA-322	208.00	EA	5.07	1,053.72 T
Gilsonite	1,375.00	EA	0.53	727.77 T
CS-1L KCL Substitute	5.00	EA	27.65	138.25 T
Mud Flush	500.00	EA	0.68	339.69 T
Super Flush II	500.00	EA	1.21	604.34 T
Latch Down Plug & Baffle	1.00	EA	315.99	315.99
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	284.39	284.39
turbolizer 5 1/2" (Blue)	7.00	EA	86.90	608.29
5 1/2" Basket(Blue)	2.00	EA	229.10	458.19
Heavy Equipment Mileage	90.00	MI	5.53	497.69
Proppant and Bulk Deliver Charge	583.00	MI	1.26	736.90
Blending & Mixing Service Charge	275.00	MI	1.11	304.14
Unit Mileage Charge-Pickups, Vans & Cars	45.00	HR	3.36	151.08
Plug Container Utilization Charge	1.00	EA	197.50	197.50
Depth Charge; 5001-6000'	1.00	HR	2,275.15	2,275.15
Service Supervisor	1.00	HR	138.25	138.25

ENTERED
 OCT 09 2011
 912/BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	14,459.96
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	619.94
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	15,079.90
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 04461 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>10-20-11</u> DISTRICT <u>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>Chic Ftain Co. INC</u>				LEASE <u>Take</u>		WELL NO. <u>#2</u>	
ADDRESS				COUNTY <u>Barber 18-33-10</u> STATE <u>KANSAS</u>			
CITY				STATE			
AUTHORIZED BY				SERVICE CREW <u>Allen, Joe T, Dale</u>			
				JOB TYPE: <u>5 1/2" L.S.</u> <u>CNW</u>			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME
<u>28443 P.U.</u>	<u>2</u>						<u>9-30-11</u> <u>AM</u> <u>1200</u>
<u>33208-20920</u>	<u>2</u>					ARRIVED AT JOB	<u>9-30-11</u> <u>AM</u> <u>445</u>
<u>19960-19918</u>	<u>2</u>					START OPERATION	<u>9-30-11</u> <u>AM</u> <u>1100</u>
						FINISH OPERATION	<u>10-1-11</u> <u>AM</u> <u>100</u>
						RELEASED	<u>10-1-11</u> <u>AM</u> <u>145</u>
						MILES FROM STATION TO WELL	<u>4.5 miles</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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 cement	SK	225		\$ 4875.00
CC105	Defumer (Powder)	lb	62		\$ 208.00
CC111	Salt (Fine)	lb	1364	682	\$ 932.00
CC116	Gas Blok	lb	259		\$ 1333.85
CC129	F1A-322	lb	208	1560	\$ 3244.80
CC201	Gilsonite	lb	1225		\$ 921.75
CF607	Latch down Plug & Baffle 5/2	EA	1		\$ 400.00
CF1251	Auto Filler Float shoe 5/2 Blue	EA	1		\$ 360.00
CF1651	Turbolizer 5/2 Blue	EA	2		\$ 220.00
CF1901	5/2 Basket	EA	2		\$ 580.00
C704	CS-16 KCL 546	gal	5		\$ 125.00
CC161	Mud Flush	gal	500		\$ 430.00
CC155	Super Flush II	gal	500		\$ 265.00

CHEMICAL / ACID DATA:			

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

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. _____



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 04482 A~~

DATE _____ TICKET NO. 4461A

DATE OF JOB <u>9-30-11</u> DISTRICT <u>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>Chief Tan Co. Inc</u>				LEASE <u>Jake H 2</u>		WELL NO.			
ADDRESS				COUNTY <u>Barber 18-33-10</u> STATE <u>KANSAS</u>					
CITY STATE				SERVICE CREW <u>Allen, Joe, Dale, TJ</u>					
AUTHORIZED BY				JOB TYPE: <u>5 1/2" L.S. CNW</u>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>28443 P.U.</u>	<u>2</u>						<u>9-30-11</u>	<u>7:00</u>	<u>1200</u>
<u>33708-20920</u>	<u>2</u>					ARRIVED AT JOB	<u>9-30-11</u>	<u>AM</u>	<u>445</u>
<u>19960-19918</u>	<u>2</u>					START OPERATION	<u>9-30-11</u>	<u>AM</u>	<u>1100</u>
						FINISH OPERATION	9-30-11	<u>AM</u>	<u>100</u>
						RELEASED	<u>10-1-11</u>	<u>AM</u>	<u>145</u>
						MILES FROM STATION TO WELL <u>4.5 miles</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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E100	Milit Mileage Charge Pickup	mi	45		\$ 191.25
E101	Heavy Equip Mileage	mi	90		\$ 630.00
E113	Bulk Delivery Charge	tm	383		\$ 932.50
CF206	Depth Charge 5001-6000'	4-hr	1		\$ 2880.00
CF240	Bleeding & Mixing Service Chg	std	275		\$ 385.00
CF-504	Plus Container Utilization Chg	Job	1		\$ 250.00
5003	Service Supervisor First 8 hrs	ea	1		\$ 175.00

SUB TOTAL ALS \$ 14,459.96

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

CHEMICAL / ACID DATA:			

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.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer Chic Ftain Oil Co.	Lease No.	Date 10-1-11
Lease JAKE	Well # #2	
Field Order # 04461A	Station Pratt KS	Casing 5/8"
Type Job 5/8" L.S.	Depth 5228'	County Barber
	Formation TD 5235 DT0	State KS
		Legal Description 18-33-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5/8"			12 BBL	mud Flush				5 Min.
5228'	Depth	From	To 12 BBL	Pre Pad	Max			
724	Volume	From	To 245	AA2	Min			10 Min.
1500	Max Press	From	To 30	AA2 Plug	Avg	R.H.		15 Min.
	Annulus Vol.	From	To		HHP Used			Annulus Pressure
5206.5	Packer Depth	From	To	Flush	Gas Volume			Total Load
				2 1/2 KCL				

Customer Representative Ron Moler	Station Manager Scotty	Treater Allen
--------------------------------------	---------------------------	------------------

Service Units	28443	33708	20920	19960	19918				
Driver Names	Allen Joe	Melvin Dale	Phye	TJ Gibson					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:45 PM	9-30-11				on loc. Discuss Safety Setup, Plan Job
					Rig Laying down D.P.
					Lay down Kelly, Rig up to Run 5/8" csg.
7:55					Start 5/8" csg. 15.5" Shoe It. 2151'
					w/ float shoe, 1 L.D. Baffle in collar.
					cont-4-6-12-14-15-16-18 Basket #2-10
9:15					circ hole w/ 62 Jts for 30 min.
9:50					Resume Running csg.
11:00					TAG TP @ 5228, Pickup & circ @ 5228
12:00	200*	10-1-11	12	5	Pump 12 BBLs mud Flush
			5	5	Pump 5 BBLs H2O
			12	5	Pump 12 BBLs superflush II
			5	5	Pump 5 BBLs H2O
					mix & Pump AA2 cmt @ 15'
			62		Finish mix, washout Pump & line
12:30	200*			6	Drop L.D. Plug. Start Disp 2% KCL
	1000*			6	Caught L. ft PST. 56 BBLs out
12:45	1700*		124	4	Plug Down.
	0*				Release PST.
					Plug Rat Hole w/ 30SKS AA2
					washup & Rackup Equip.
1:45					Job complete, Allen, Joe, TJ, Dale.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

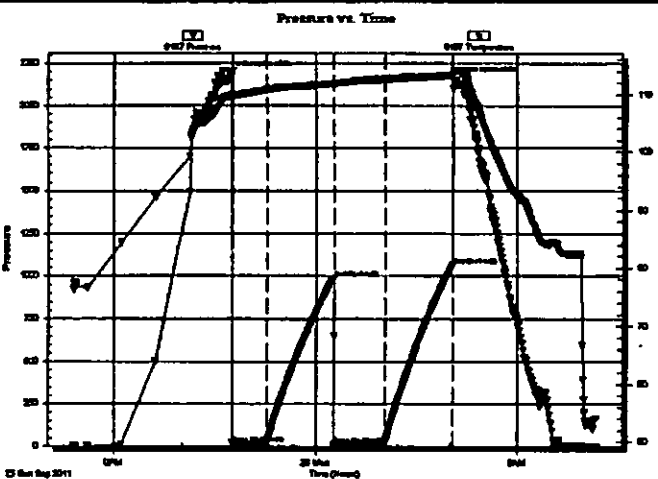
Jake #2
18-33s-10w Barber,KS
Job Ticket: 43973 DST#: 1
Test Start: 2011.09.25 @ 20:24:37

GENERAL INFORMATION:

Formation: **Hertha**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: **22:45:07**
Time Test Ended: **04:10:22**
Interval: **4456.00 ft (KB) To 4482.00 ft (KB) (TVD)**
Total Depth: **4482.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Gary Revoteaux**
Unit No: **56**
Reference Elevations: **1629.00 ft (KB)**
1621.00 ft (CF)
KB to GRCP: **8.00 ft**

Serial #: 8167 Inside
Press@RunDepth: **15.56 psig @ 4457.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.09.25** End Date: **2011.09.26** Last Calib.: **2011.09.26**
Start Time: **20:24:42** End Time: **04:10:21** Time On Btm: **2011.09.25 @ 22:42:52**
Time Off Btm: **2011.09.26 @ 02:04:37**

TEST COMMENT: IF: Strong blow . B.O.B. in 4 mins.
IS: No blow .
FF: Strong blow . B.O.B. in 2 secs.
FS: No blow .



PRESSURE SUMMARY

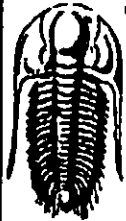
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.55	109.82	Initial Hydro-static
3	14.95	109.58	Open To Flow (1)
34	17.68	110.86	Shut-In(1)
93	987.16	111.90	End Shut-In(1)
93	11.22	111.88	Open To Flow (2)
138	15.56	112.67	Shut-In(2)
200	1065.06	113.37	End Shut-In(2)
202	2154.03	114.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w a trace of oil	0.10
0.00	2040 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co Inc.
605 S.6th, P.O.Box 124
Kow a, KS 67070
ATTN: David Barker

Jake #2
18-33s-10w Barber,KS
Job Ticket: 43973 DST#: 1
Test Start: 2011.09.25 @ 20:24:37

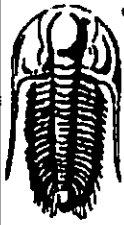
Tool Information

Drill Pipe:	Length: 4329.00 ft	Diameter: 3.80 inches	Volume: 60.72 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 61.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4456.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4429.00	
Shut in tool	5.00			4434.00	
HMV	5.00			4439.00	
Jars	5.00			4444.00	
Safety Joint	3.00			4447.00	
Packer	4.00			4451.00	28.00 Bottom Of Top Packer
Packer	5.00			4456.00	
Stubb	1.00			4457.00	
Recorder	0.00	8167	Inside	4457.00	
Recorder	0.00	8370	Outside	4457.00	
Perforations	20.00			4477.00	
Bullnose	5.00			4482.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co Inc.
605 S.6th, P.O.Box 124
Klowa, KS 67070
ATTN: David Barker

Jake #2
18-33s-10w Barber,KS
Job Ticket: 43973 DST#: 1
Test Start: 2011.09.25 @ 20:24:37

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 7.59 in³
Resistivity: 0.00 ohm.m
Salinity: 3500.00 ppm
Filter Cake: 0.20 inches

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

Oil API: deg API
Water Salinity: 3500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w a trace of oil	0.098
0.00	2040 ft.of GIP	0.000

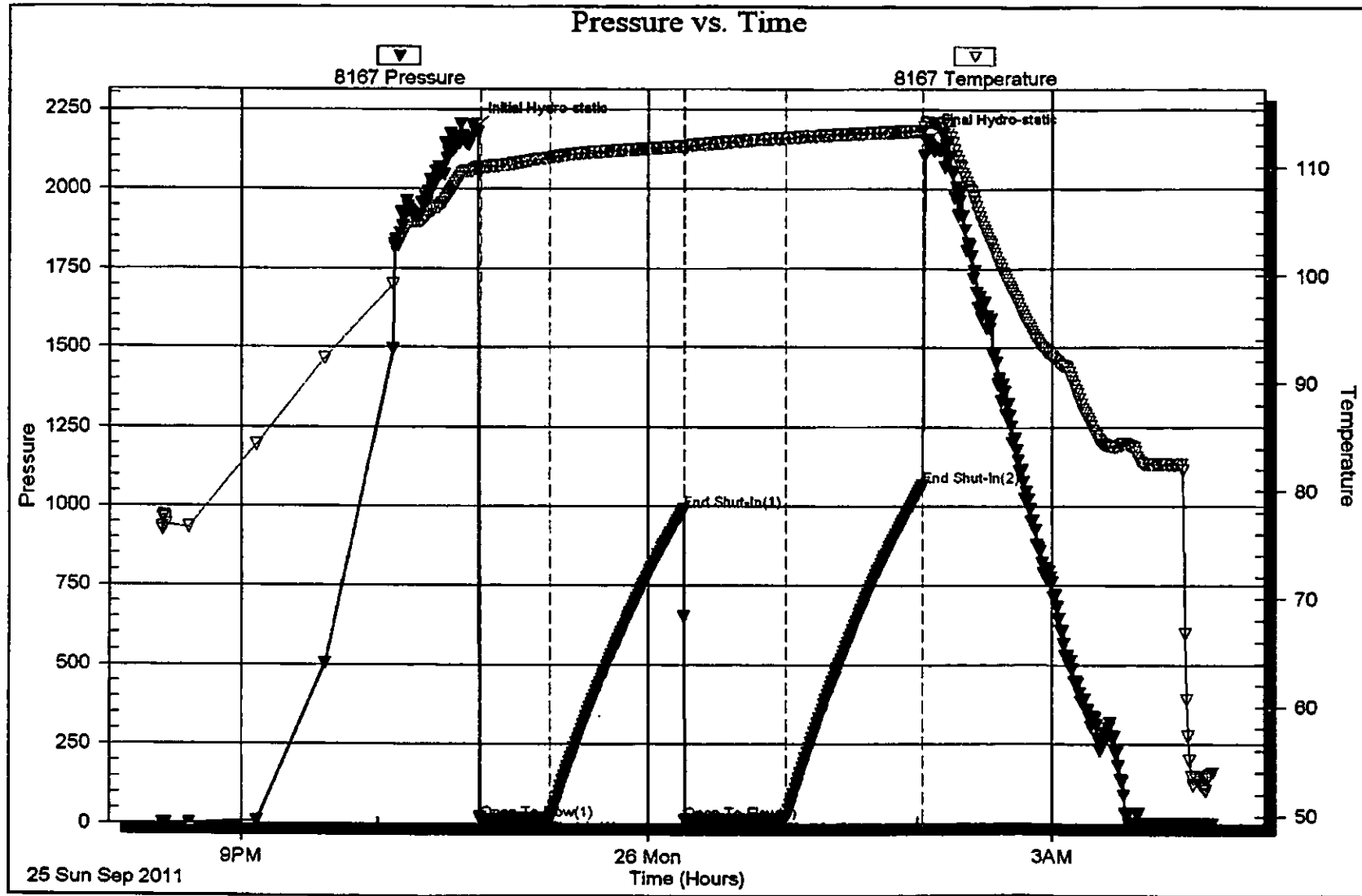
Total Length: 20.00 ft Total Volume: 0.098 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Caraway Laboratory Location:
Recovery Comments: P

Serial #: 8167

Inside Chieftain Oil Co Inc.

18-33s-10w Barber,KS

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co Inc.
605 S.6th, P.O.Box 124
Kow a, KS 67070
ATTN: David Barker

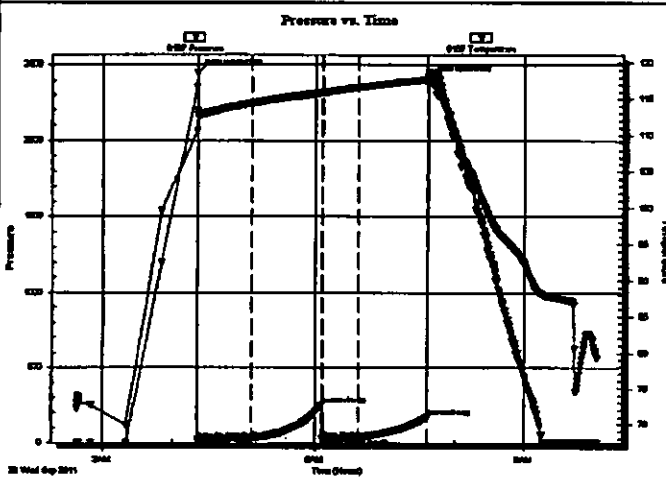
Jake #2
18-33s-10w Barber, KS
Job Ticket: 43974 DST#: 2
Test Start: 2011.09.28 @ 02:38:06

GENERAL INFORMATION:

Formation: **Misener**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **04:21:06**
 Tester: **Gary Favoteaux**
 Time Test Ended: **10:02:06**
 Unit No: **56**
 Interval: **4896.00 ft (KB) To 5010.00 ft (KB) (TVD)**
 Reference Elevations: **1629.00 ft (KB)**
 Total Depth: **5010.00 ft (KB) (TVD)**
1621.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **8.00 ft**

Serial #: **8167** Inside
 Press@RunDepth: **37.94 psig @ 4897.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.09.28** End Date: **2011.09.28** Last Calib.: **2011.09.28**
 Start Time: **02:38:11** End Time: **10:02:05** Time On Btm: **2011.09.28 @ 04:20:51**
 Time Off Btm: **2011.09.28 @ 07:38:21**

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



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2449.40	113.37	Initial Hydro-static
1	21.90	112.79	Open To Flow (1)
46	30.77	114.43	Shut-In (1)
105	254.84	115.93	End Shut-In (1)
106	30.84	115.90	Open To Flow (2)
136	37.94	116.64	Shut-In (2)
196	173.19	117.71	End Shut-In (2)
198	2403.68	118.74	Final Hydro-static

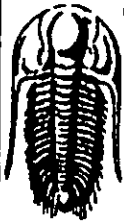
Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drilling mud	0.12

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

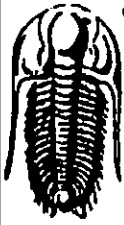
Jake #2
18-33s-10w Barber,KS
Job Ticket: 43974 DST#: 2
Test Start: 2011.09.28 @ 02:38:06

Tool Information

Drill Pipe:	Length: 4761.00 ft	Diameter: 3.80 inches	Volume: 66.78 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
Orfil Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 67.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4896.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	114.00 ft			
Tool Length:	142.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4869.00	
Shut in tool	5.00			4874.00	
HMV	5.00			4879.00	
Jars	5.00			4884.00	
Safety Joint	3.00			4887.00	
Packer	4.00			4891.00	28.00 Bottom Of Top Packer
Packer	5.00			4896.00	
Stubb	1.00			4897.00	
Recorder	0.00	8167	Inside	4897.00	
Recorder	0.00	8370	Outside	4897.00	
Perforations	7.00			4904.00	
Blank Spacing	95.00			4999.00	
Perforations	6.00			5005.00	
Bullnose	5.00			5010.00	114.00 Bottom Packers & Anchor
Total Tool Length:	142.00				



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co Inc.
605 S.6th, P.O.Box 124
Klowa, KS 67070
ATTN: David Barker

Jake #2
18-33s-10w Barber,KS
Job Ticket: 43974 DST#: 2
Test Start: 2011.09.28 @ 02:38:06

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:	4400 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in*	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Drilling mud	0.123

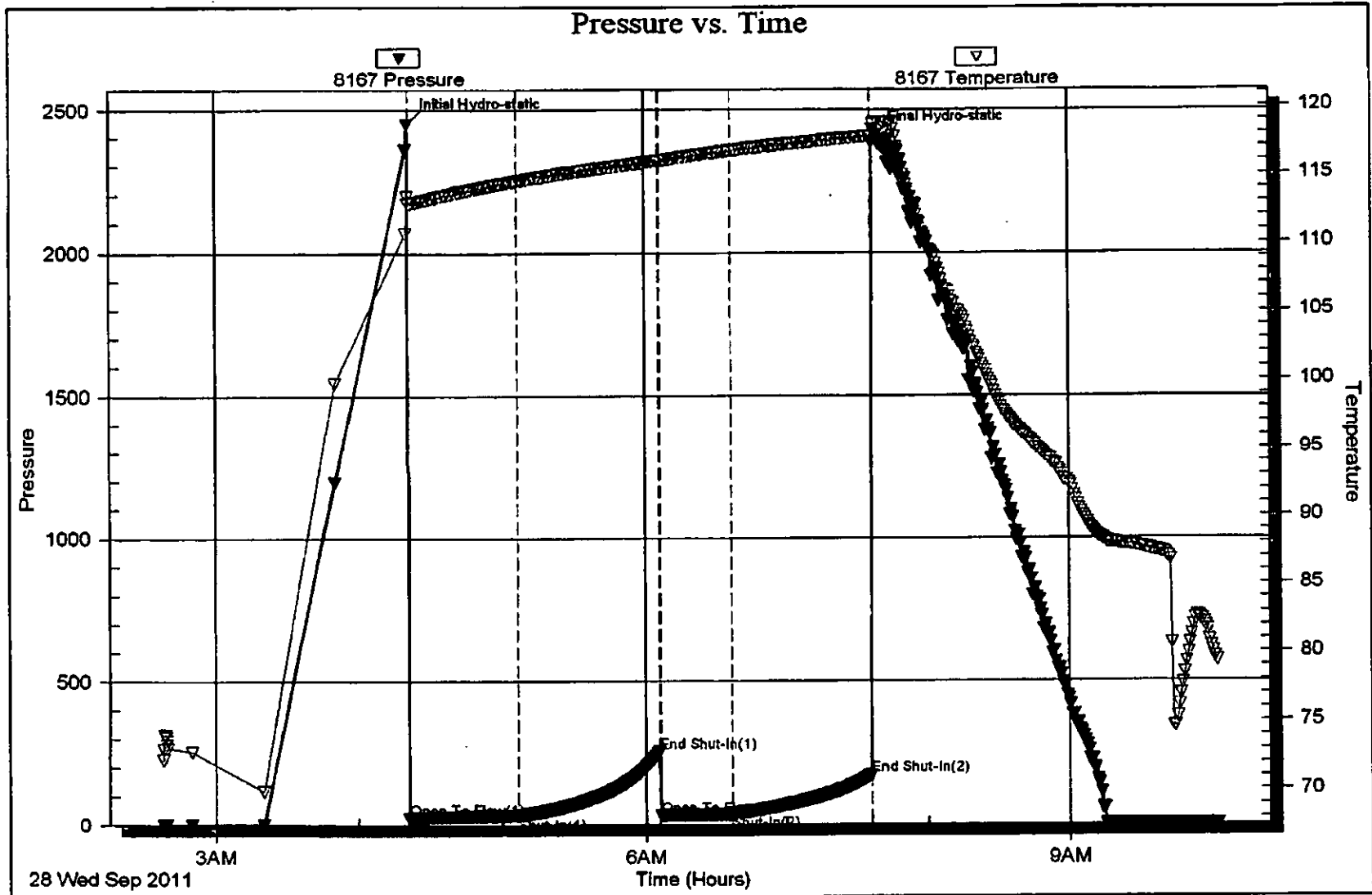
Total Length: 25.00ft Total Volume: 0.123 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8167

Inside Chieftain Oil Co Inc.

18-33s-10w Barber,KS

DST Test Number: 2





CONSULTING GEOLOGIST

Geologist's Report
Drilling Time and Sample Log

OPERATOR Chieftain Oil Company, Inc
LEASE Jake **WELL NO.** 2
FIELD Traffas **API No.** 15-007-23718
LOCATION 2260' FNL & 850' FWL NW SE SW NW
SEC. 18 **TWP.** 33S **RGE.** 10W
COUNTY Barber **STATE** Kansas

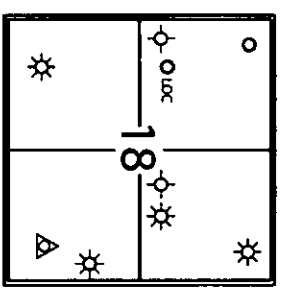
ELEVATION
KB 1629
DF 1627
GL 1621
 Measurements Are All From KB

CASING RECORD
SURFACE 8 5/8" @ 328
 300 SX
PRODUCTION 5 1/2" @
 5235 229 SX

CONTRACTOR Fossile #2
COMM. 9/20/2011 **COMP.** 9/30/2011
RTD 5235 **LOG TD** 5228
SAMPLES SAVED FROM 3500 **TO** T.D.
DRILLING TIME KEPT FROM 3200 **TO** T.D.
SAMPLES EXAMINED FROM 3500 **TO** T.D.
GEOLOGICAL SUPERVISION FROM 3700 **TO** T.D.
MUD UP 3200 **TYPE MUD** Chemical

ELECTRICAL SURVEYS
 Superior- Gamma Ray,
 Dual Induction,
 Compensated Neutron &
 Density, S.P. & Calliper

FORMATION	TOP	LOG DATUM	TOP	SAMPLE DATUM	STRUCT. COMP.
Heebner	3752	-2123	3762	-2133	+6
Lansing	3951	-2322	3961	-2332	+11
Stark Sh	4418	-2789	4428	-2799	+7
Hushpuckney Sh	4475	-2816	4486	-2827	+7
Base K.C.	4478	-2849	4488	-2857	+8
Altamont	4515	-2886	4524	-2895	+9
Pawnee	4588	-2959	4598	-2969	+10
Cherokee	4635	-3006	4646	-3017	+8
Mississippian	4660	-3031	4664	-3035	+4
Kinderhook	4880	-3251	4894	-3265	DNP
Viola	4992	-3363	5002	-3373	DNP
Simpson	5082	-3453	5094	-3465	DNP
Simpson Sd.	5098	-3469	5110	-3481	DNP
Arbuckle		DNP		DNP	DNP



REFERENCE WELL FOR STRUCTURAL POSITION 18 - T33S - R10W, Circle #1,
 2310' FNL & 455' FWL, SW SW NW

GEOLOGIST

Name: David A. Barker
Company:
Address: 212 N. Market, Suite# 320
 Wichita, Kansas 67202
 (316) 259-4294, 2 Barker@sbcglobal.net

OPERATOR

Company: Chieftain Oil Co., Inc.
Address: 605 S. 6th, P.O. Box 124
 Kiowa, Kansas 67070

Daily Status

- 9-20-2011: set 8 5/8 casing to 328' with 300 SX cement, plug down at 2:30 a.m.
- 9-21-2011: Morning depth: 1730'
- 9-22-2011: Morning depth: 2616'
- 9-23-2011: Morning depth: 3325'
- 9-24-2011: Morning depth: 3895'
- 9-25-2011: Morning depth: 4398'
- 9-26-2011: Morning depth: 4485', DST #1, 4456' to 4482'
- 9-27-2011: Morning depth: 5010', DST #2 4896' to 5010'
- 9-28-2011: Morning depth: 5010', DST #2 4896' to 5010'

9-29-2011: Morning depth: 5034'

9-30-2011: Morning depth: 5235' frun E-log, ran 124 Jts of 5 1/2" casing with 229 SX of cement.

Remarks

Recommended perforation intervals are: 4660-4664 & 4679-4685. Once these zones are exhausted and before abandonment, two zones should be further evaluated through perforation and acidation: the Pawnee from 4589-4592, and the Hertha from 4454-4460.

DST # 1

"Hertha" 4456' to 4482', 30-60-45- 60, IF period: strong blow, B.O.B. in 4 minutes, FF period: strong blow, B.O.B. in 2 seconds, REC: 2040' gas in pipe, and 20' of drilling mud, IHP 2187#, IFP# 15-18#, FFP 11 to 16#, BHP 987 to 1065#.

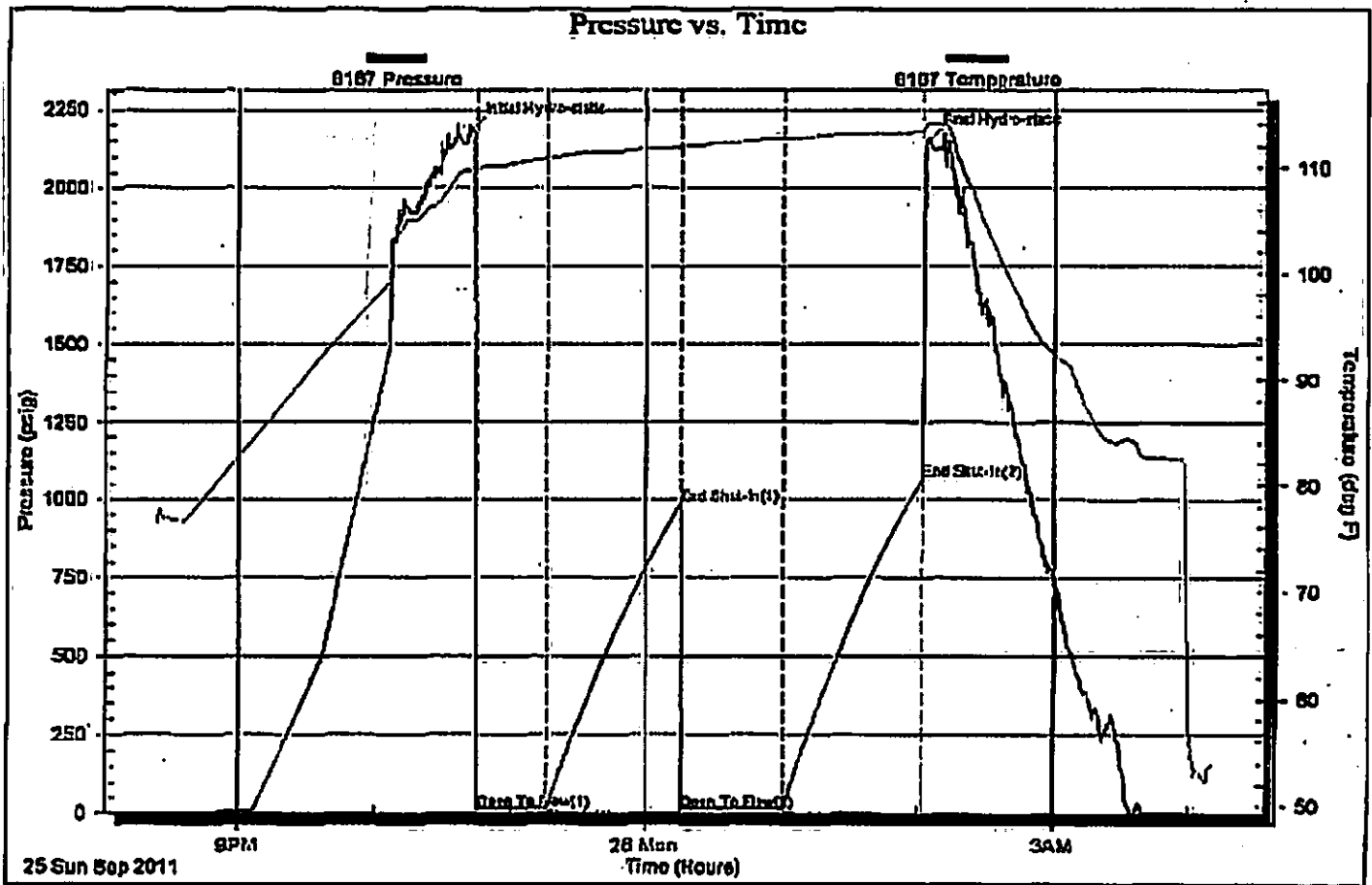
Serial #: B167

Inside

Chertish Oil Co. Inc.

18-33+10w Barber Ks

DST Test Number: 1



DST # 2

"Miesner Sand", 4896' to 5010', 45-60-30-60, IFP weak blow 1/2" to 1 1/2", FFP no blow,

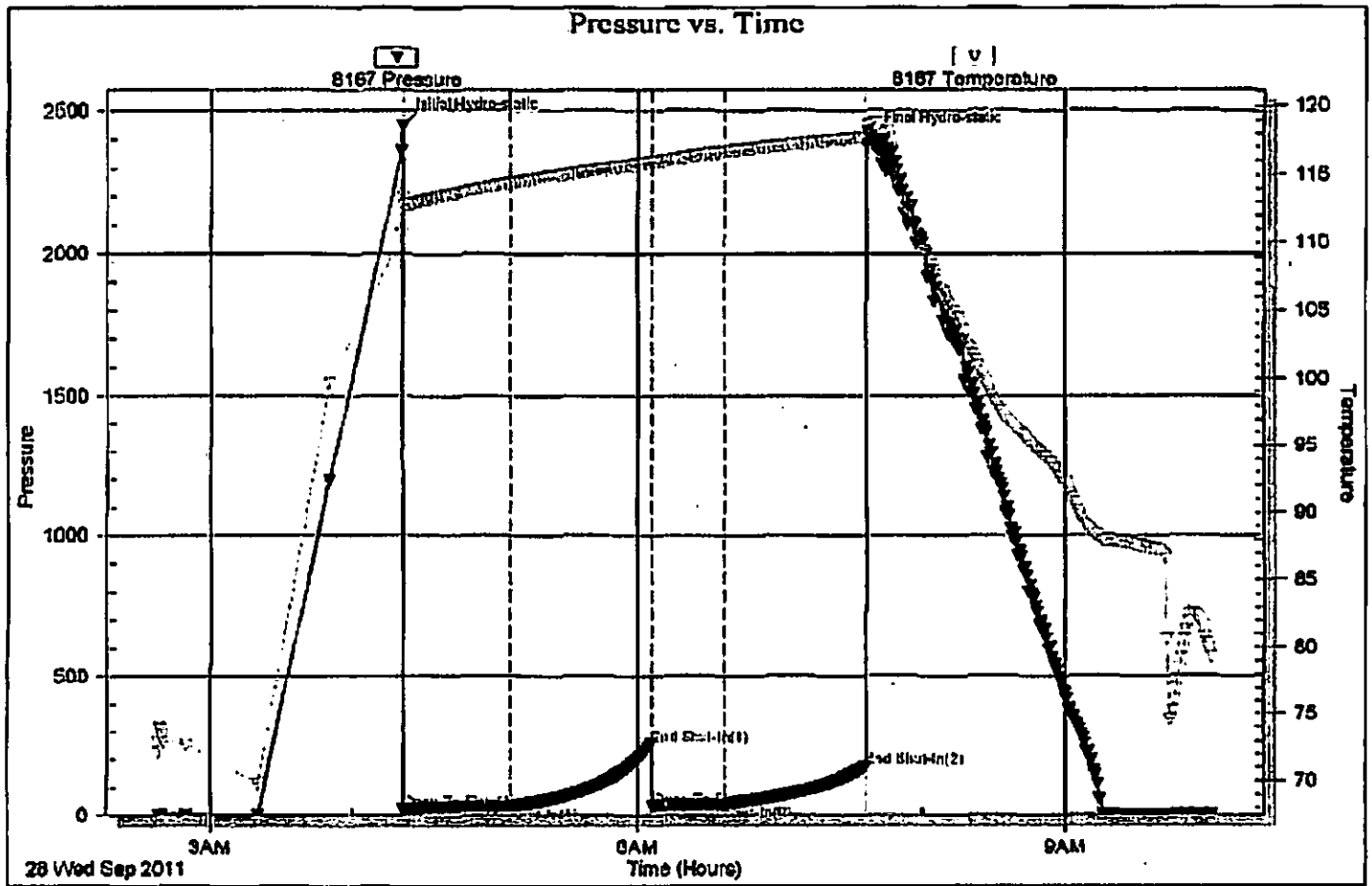
REC: 25' drilling mud, IHP 2449 FHP 2404#,
IFP 22 to 31#, FFP 31-38#, BHP 255 to 173#

Serial #: 8167

Inside Chlovia Oil Co. Inc.

18-33-10W Barber Ks

OST Test Number: 2



ACCESSORIES

FOSSIL

- [B] Algae
- [M] Amph
- [U] Belm
- [D] Bloclst
- [E] Brach
- [F] Bryozoa
- [C] Cephal
- [P] Coral
- [B] Crin
- [X] Echin
- [A] Fish
- [F] Foram
- [B] Fossil
- [C] Gastro
- [C] Oolite
- [Q] Ostra
- [V] Pelec
- [P] Pellet



- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL

- [Z] Anhy
- [V] Arggrn
- [B] Arg
- [B] Bent
- [N] Bit
- [B] Brefracg
- [L] Calc
- [B] Carb
- [A] Chtdk
- [B] Chtlt
- [L] Dol
- [+] Feldspar



- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol



- Sand
- Sity

STRINGER

- [H] Anhy
- [H] Arg
- [H] Bent
- [H] Coal
- [H] Dol
- [H] Gyp
- [H] Ls
- [H] Mrst
- [H] Sltstrg
- [H] Ssstrg
- [H] Carbsh
- [H] Clystn
- [H] Dol
- [H] Grysh
- [H] Gryst



- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- [BS] Boundst
- [C] Chalky
- [CX] Cryxln
- [E] Earthy
- [FX] Finexln
- [GS] Grainst
- [L] Lithogr
- [MX] Microxin
- [MS] Mudst
- [PS] Packst
- [WS] Wackest

OTHER SYMBOLS

INTERVALS



Fracture



Carb shale



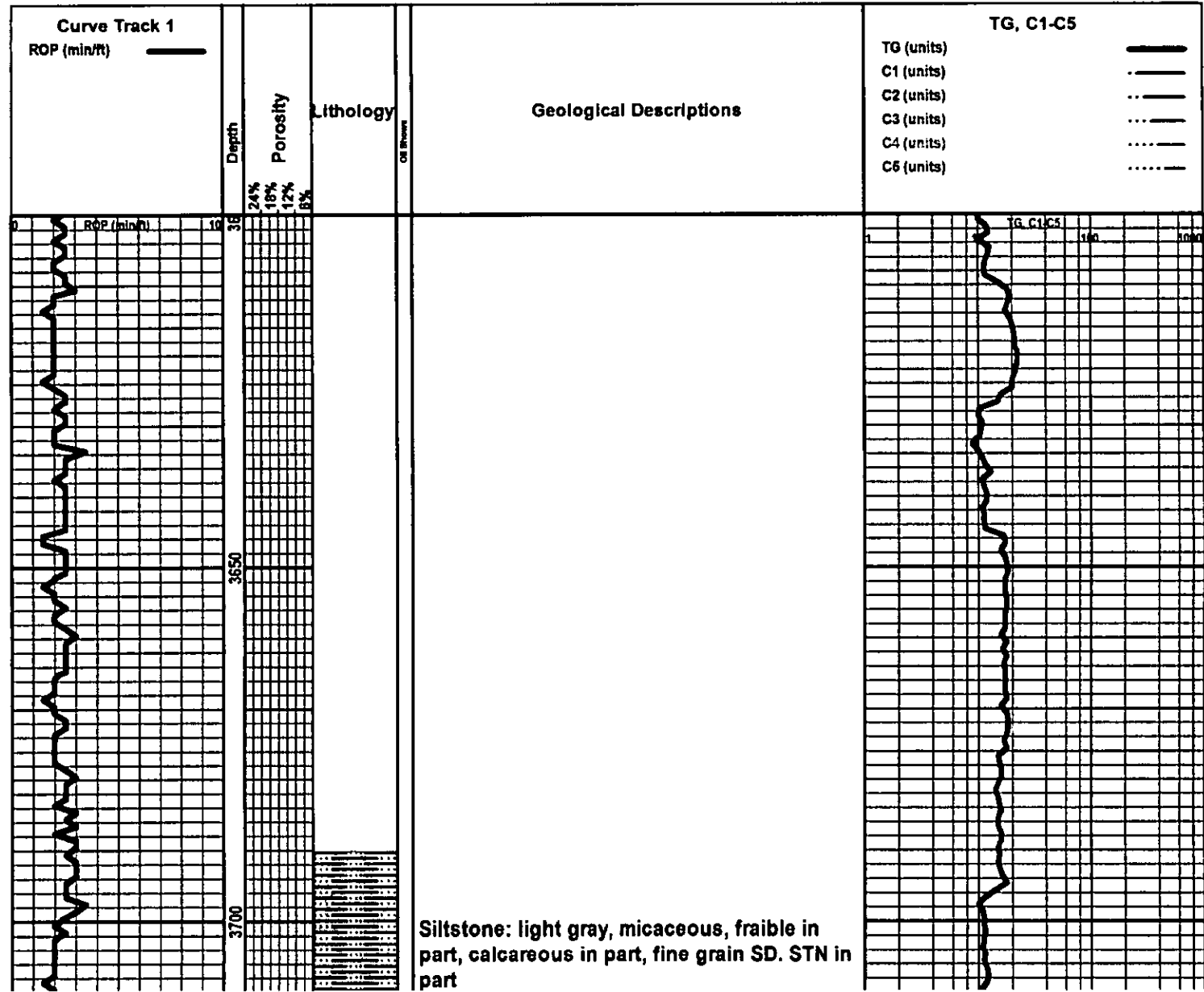
Brown lmst

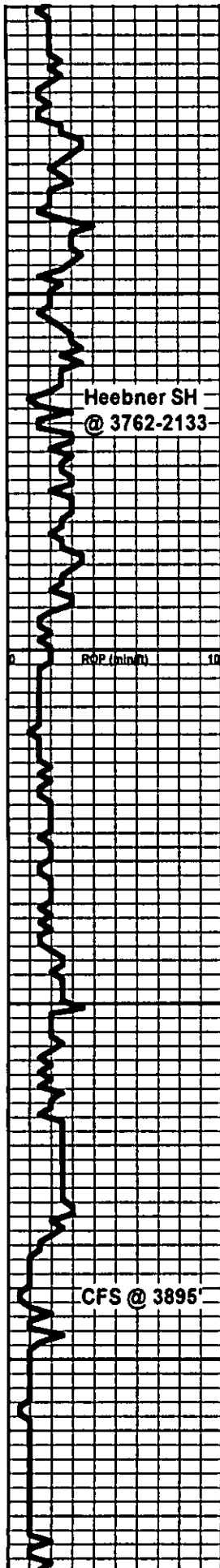
ROUNDING

Core	Inter	Gray shale	Brown shale	Rounded
Dst	Moldic	Sandy lmst	Brown dol	Subrnd
Dst	Organic	Shale	Brown cream	Subang
EVENTS	Pinpoint	Silt stn	D. green lmst	Angular
Rft	Vuggy	Shaly slst	Light cream lmst	OIL SHOWS
Sidewall	LITHOLOGY	Silty shale	Gray cream lmst	Even
Cfs	Anhy	Blank	Green dol	Spotted
Conn	Cht	Gray lmst	Gray dol	Ques
POROSITY TYPE	Congl	Cream lmst	SORTING	Dead
Earthy	Shale	Red shale	Well	Gas show
Fenest	Shgy	Blue-green siltstn	Moderate	
	Ss	D. green shale	Poor	
		Green shale		

ROCK TYPES

Anhy	Carb shale	Silty shale	D. green shale	D. green lmst
Cht	Gray shale	Blank	Green shale	Light cream lmst
Congl	Sandy lmst	Gray lmst	Brown lmst	Gray cream lmst
Shale	Shale	Cream lmst	Brown shale	Green dol
Shgy	Silt stn	Red shale	Brown dol	Gray dol
Ss	Shaly slst	Blue-green siltstn	Brown cream	





Heebner SH
@ 3762-2133

CFS @ 3895'



Shale: gray, soft mushy in part and silty

Shale: gray, LS: gray/brown, microxyln, very dense.

Shale: black to dark brown, dense, LS: dark brown, microxyln, dense, Siltstone: gray, dense, no show

LS: dark brown, dense, blocky, lithographic, Siltstone: gray, dense, no show

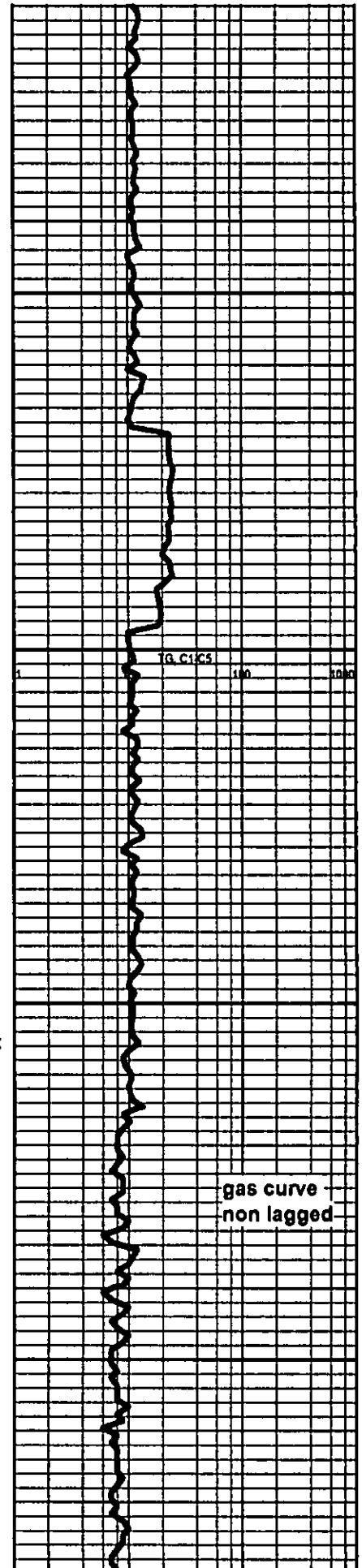
LS: cream to buff, microxyln, dense, Siltstone: light green, dense, Shale: light green

Shale: gray, dense, Siltstone: light gray, laminar,

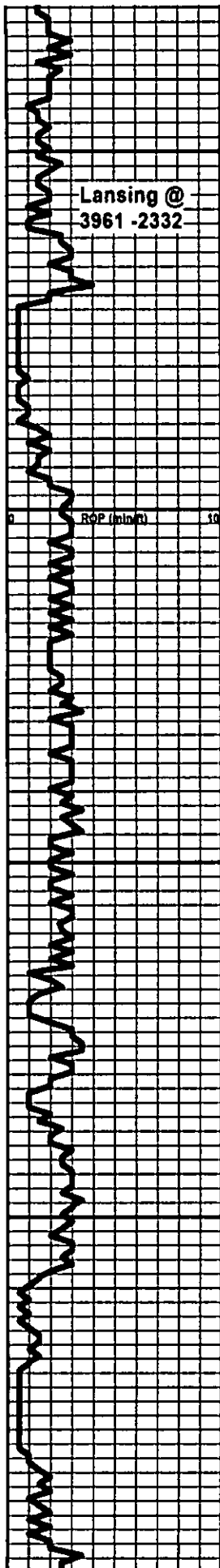
LS: buff, fiexyln to microxyln, dense, Shale: gray, dense, Siltstone: light gray

LS: buff to brown, microxyln very dense no visable porosity, Siltstone: light gray, poor intergranular porosity, laminar, LS: dark brown, microxyln, dense. SD.STN: light gray, fine grain, fair sorting, blocky dense, micaceous, no show of gas or oil,

SD.STN: light gray, fine grain, fair sorting, poor intergranular porosity, micaceous, LS: buff to light gray, microxyln, dense



gas curve
non lagged



Shale: gray to green, SD. STN A.A.

LS: buff, microxyn, poor interxyn porosity, scattered pin point porosity, oolmoldic porosity, poor interxyn porosity, mineral fluorescence, no cut

LS: light brown, fair oolmoldic porosity, and or fossil moldic porosity, fair interxyn porosity, LS: gray/white, chky, LS: light brwon to brown, microxyn, very dense, no visable porosity

LS: gray, microxyn, very dense, no visable porosity, poor interxyn porosity,

LS: gray/cream, fiexyn, mottled, no visable porosity, poor interxyn porosity, Shale: gray/green

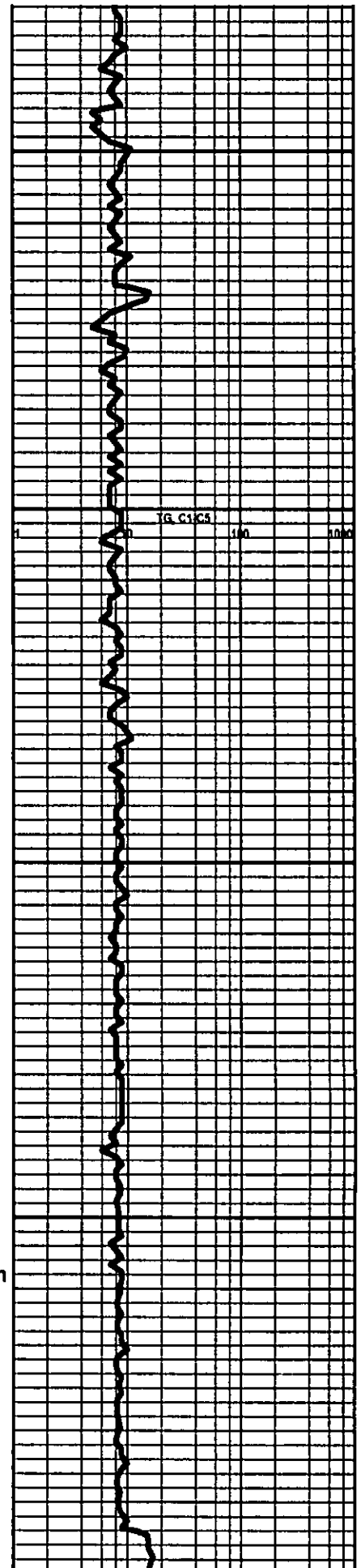
LS: gray/buff, slightly cryptoxyn, sct crinoid fragments, poor interxyn porosity, Shale: gray

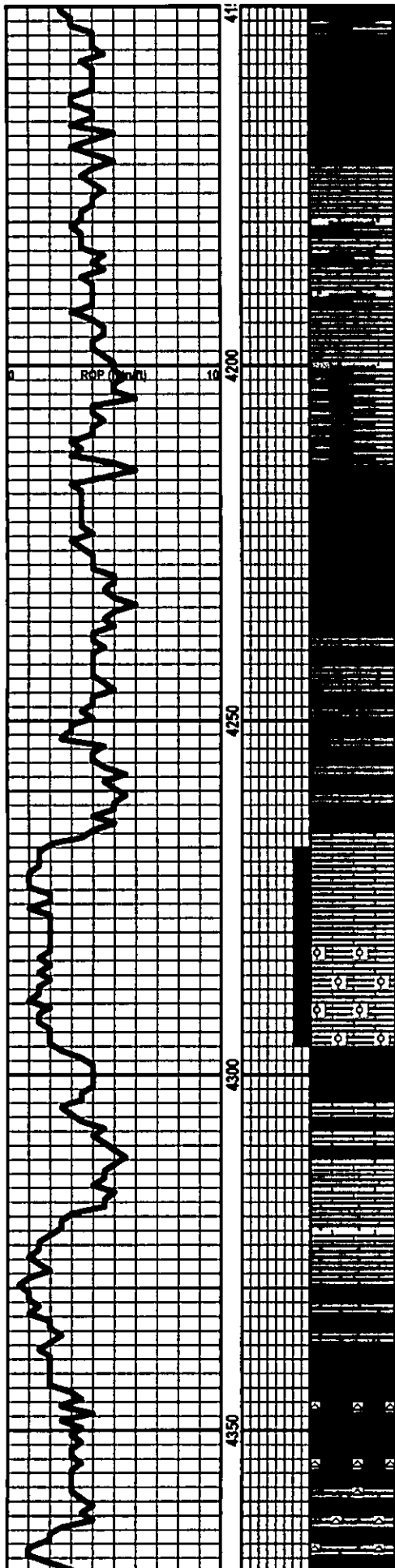
LS: off white, sub chky, LS: buff, finexyn, oolitic packstone, no visable oolmoldic porosity, Shale: gray to gray/green, LS: gray, microxyn, dense

LS: gray, microxyn, dense, Shale: gray to green/gray, LS: buff, finexyn, fossile fragments, no vsiable porsoity, poor interxyn porosity,

LS: white, chky, LS: buff, finexyn, pin point oolitic packstone, poor interxyn porosity, Shale: gray,

Shale: gray, LS: gray, microxyn, very dense, LS: white, chky, LS: cream, fiexyn, poor interxyn porosity.





LS: gray/brown, poor interxyln porosity, finexyln, poor interxyln porosity, mottled, Shale: gray

LS: gray to dark gray, dark gray/brown in part, microxyln, dense, Shale: gray, LS: brown, microxyln, dense

increase in dark gray shale, LS: dark gray, very dense, no visible porosity, LS: gray/brown to dark brown, microxyln, very dense.

Shale: dark gray, lmy, LS: dark gray, silty, poor interxyln porosity

LS: dark gray, microxyln, very dense, poor interxyln porosity, Shale: dark gray

Shale: dark gray, dense, silty

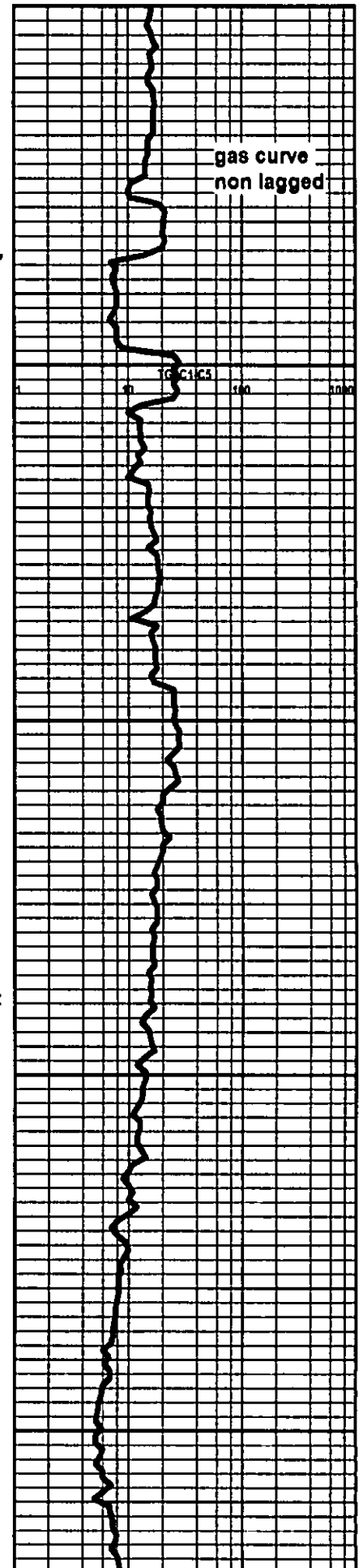
LS: cream to buff, finexyln, poor interxyln porosity, chky in part

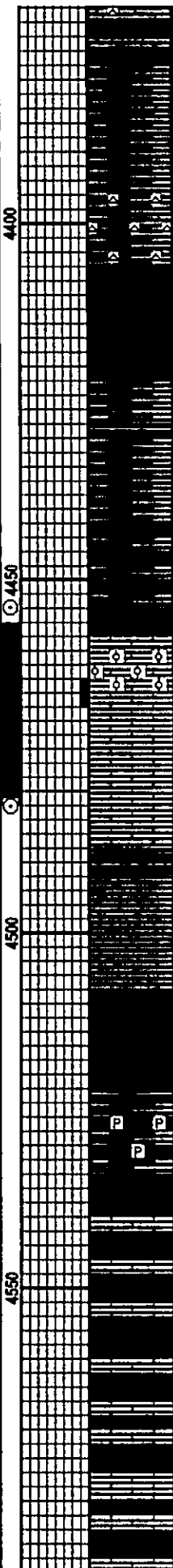
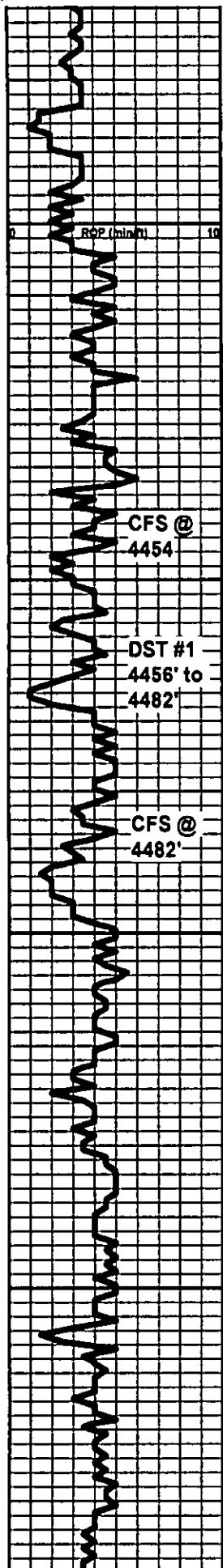
LS: cream to buff, finexyln to medium xyln set fair oolmoldic porosity, no show, fair interxyln porosity, cryptoxyln in part no fluorescence,

LS: light gray to blond, microxyln mudstone, no visible porosity. LS: buff, slight visible oolmoldic porosity, fair to good interxyln porosity, no show, dull mineral fluorescence.

Shale: gray/black, fossiliferous, LS: dove gray, microxyln, poor interxyln porosity, set slight visible porosity, poor interxyln porosity, LS: cream to buff, finexyln to microxyln, chky in part, Chert: translucent

LS: cream to buff to gray/buff, microxyln, chky, friable in part, Shale: dark gray, Chert: translucent.





LS: gray/buff, microxyn, very dense, LS: gray/brown, microxyn, very dense, lithographic

LS: buff to gray/brown, microxyn, very dense, Chert: dark gray, sharp.

LS: brown, microxyn very dense, no visable porosity, LS: brown/bray, microxyn, dense, Shale: dark gray

no odor no fluorensence, LS: gray/dark brown, lithographic, dense, Shale: black, LS: cream/gray in part

4454 30 min. cir. sample: no odor, LS: cream to cream/gray, microxyn, no visable porosity, poor interxyn porosity, no fluorensence, Shale: black to dark gray, Chert: procelain white, sharp

LS: cream, finexyn, friable, fair interxyn porosity, slight stain, bright fluorensence, slight show of free oil under black light, oolitic packstone, poor interxyn porosity, poor cut, visable pin point oolmoldic porosity, slight stain.

LS: dark gray, microxyn, very dense, no visable porosity, Shale: gray, to dark gray, friable

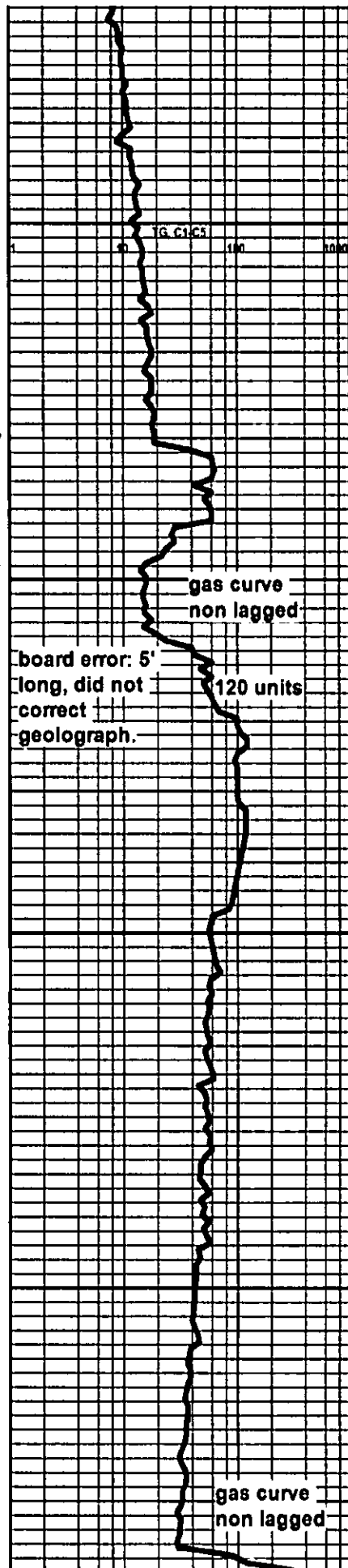
Shale: dark green and gray, LS: dark brown, microxyn, very dense, LS: cream, finexyn, poor interxyn porosity.

Shale: light green, pyritic, LS: brown/gray, microxyn mudstone, very dense, LS: buff, microxyn, very dense, Shale: dark gray,

LS: buff, microxyn, very dense, no visable porosity, Shale: gray, Shale: light gray/green with fossile fragments, LS: buff/brown, fossiliferous packstone in part microxyn, no visable porosity

LS: cream/buff, microxyn, very dense, no visable porosity, lithographic, LS: light tan, microxyn, very dense, oolitic packstone.

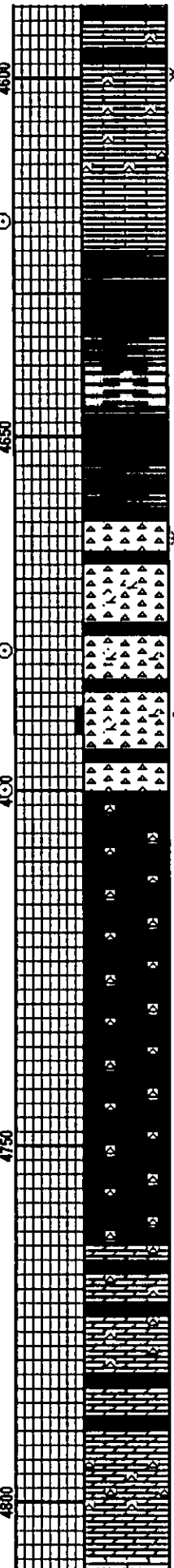
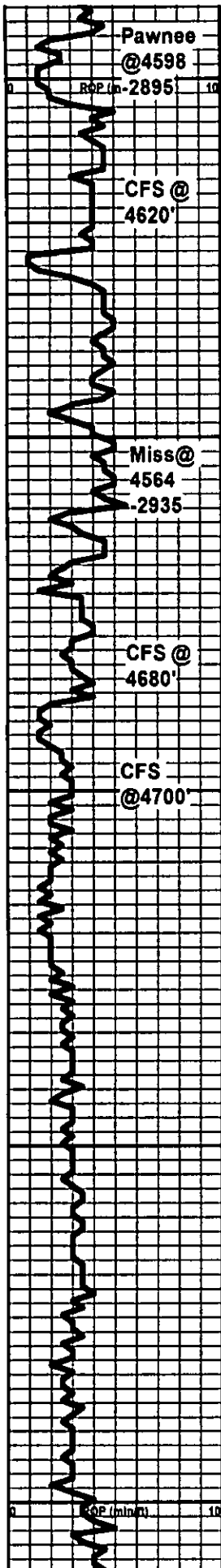
LS: buff/cream, microxyn, very dense, mudstone, poor interxyn porosity, friable in part, dull mineral fluorensence, one piece



gas curve non lagged

board error: 5' long, did not correct geolograph. 120 units

gas curve non lagged



bright fluorescence

possible slight odor, LS: buff, micoryln, lightographic, slight visible porosity in part random one piece with a rainbow show, miner fluorescence, Chert: bright fluorescence, sharp, blocky, LS: gray/brown, micoryln, very dense, lithographic, no visible porosity.

flood of black shale, Chert: blocky, foss, edge stain, questionable stain no fluorescence, LS: light brown, microxyln, dense.

Shale: dark gray, LS: brown to gray/brown, microxyln, dense, Shale: dirty gray, crynoid fragments, no fluorescence, no odor. Shale: green to red, LS: brown, micoryln, dense, mostly shale,

no odor, Chert: white, good fluorescence, LS; waxey green, microxyln, very dense, Dolomite: light brown, fine grain, Shale: dark gray. Slight odor from sample, Chert: fresh, semi clear, opaque, light brown stain, fair cut, fair pin point fluorescence, slight visible porosity, slightly dolomitic

4680 30 min: slight odor, Chert: light green, cherty, fine granular, poor interxyln porosity, scattered dark stain, slightly dolomitic, slightly tripolitic, fair pinpoint fluorescence.

4700 30 min: slight odor, Chert: fresh, semi clear, fair brown stain, poor fluorescence, slight visible tripolitic porosity, one piece of excellent porosity with brown stain, fair show of free oil when chushed,

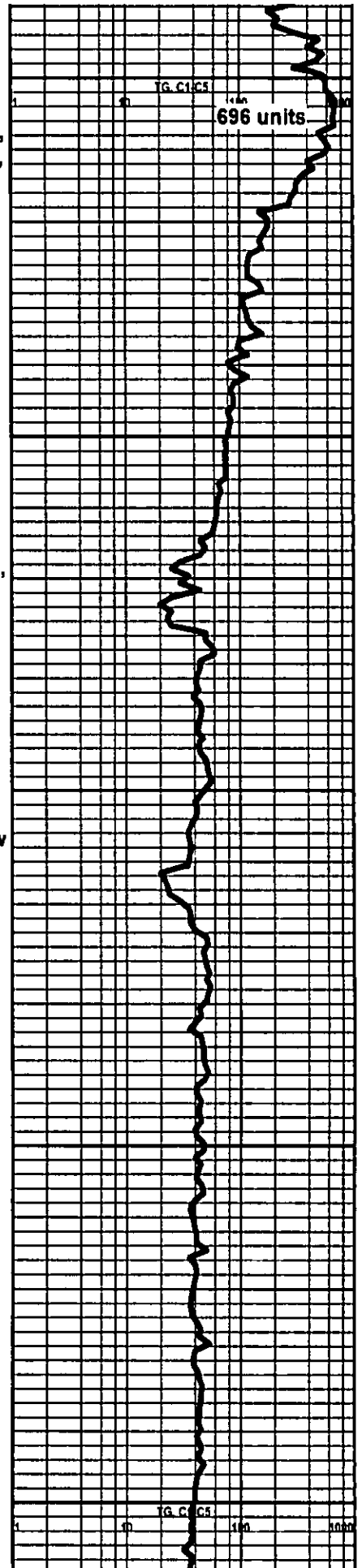
4700 60 min: Chert: fresh, white, light brown, dolomitic, tripolitic, slight stain, poor fluorescence, no cut, show of free oil with acid, scattered chert

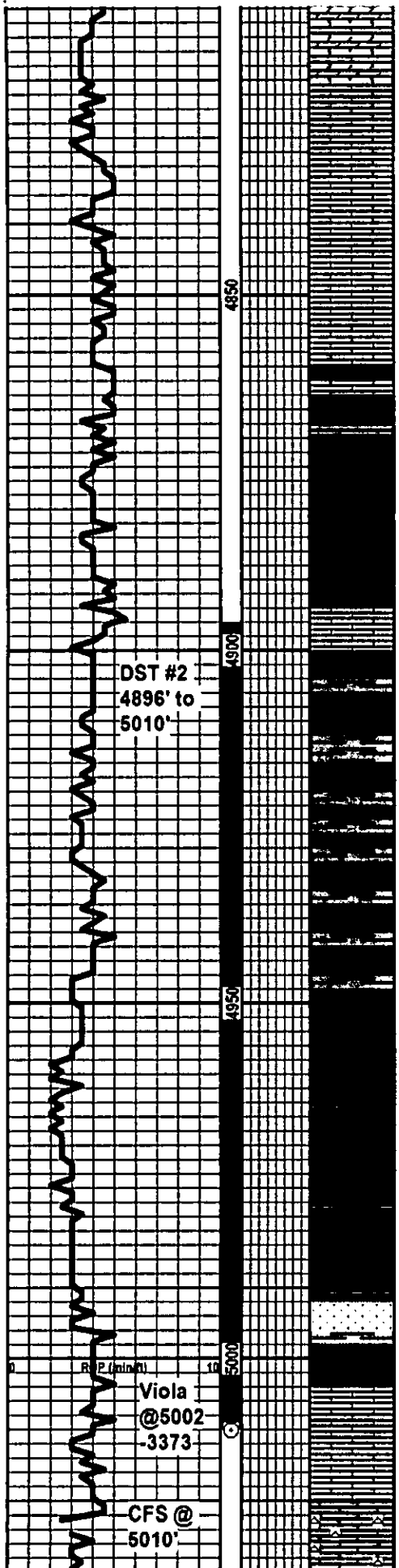
Dolomitic limestone: gray/brown, cherty, no fluorescence, dense, finexyln, poor interxyn porosity.

LS: dirty gray, dolomitic, finexyln, poor interxyln porosity, Shale: dark gray

Dolomite: dirty gray, silty, cherty, poor interxyln porosity, Shale: dark gray

Dolomite: dirty gray, gritty, poor interxyln porosity, dense, Cherty: dove gray, fossiliferous, sharp, semi trans, LS: buff, coarsexyln. poor interxyln porosity.





LS: cream, coarsexyln, fossiliferous, poor interxyln porosity, chky in part, no fluorescence. flood of white chky LS, Shale: light gray, calcareous

LS: cream, microxyln, dense, LS: light green, microxyln, waxey, poor interxyln porosity, LS: light brown, microxyln, very dense, no visible porosity.

LS: cream, microxyln, dense, chky in part, poor interxyln porosity, Shale: gray, LS: gray/brown, microxyln, dense.

LS: dark jade, finexyln, dense, no visible porosity,

LS: light buff, microxyln very dense, no visible porosity, poor interxyln porosity, Shale: gray,

Shale: dark green, blocky, dense

flood of dense, gray/brown, laminar Shale

Shale: gray/earthy brown,

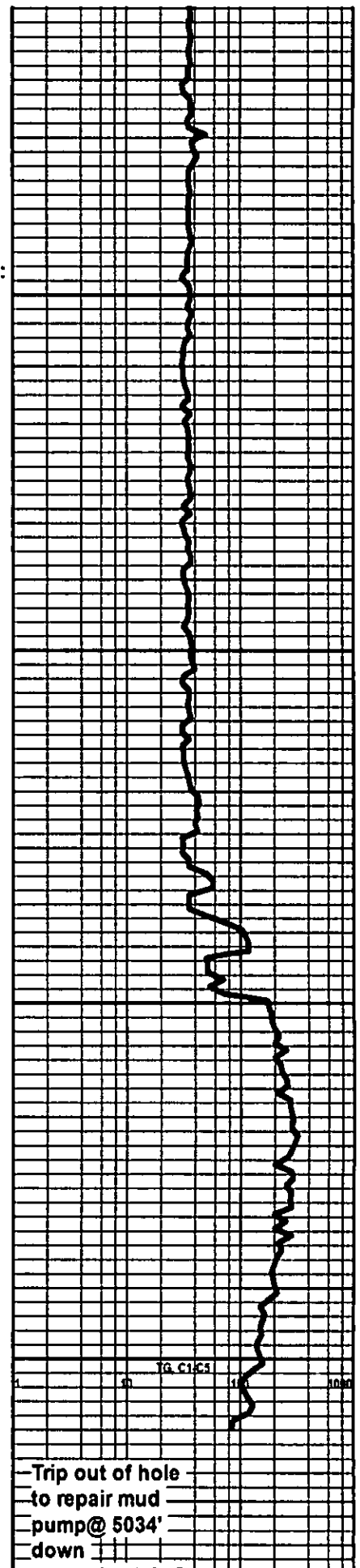
Shale: dark gray to brown, dolomitic

Shale: chocolate brown, dense

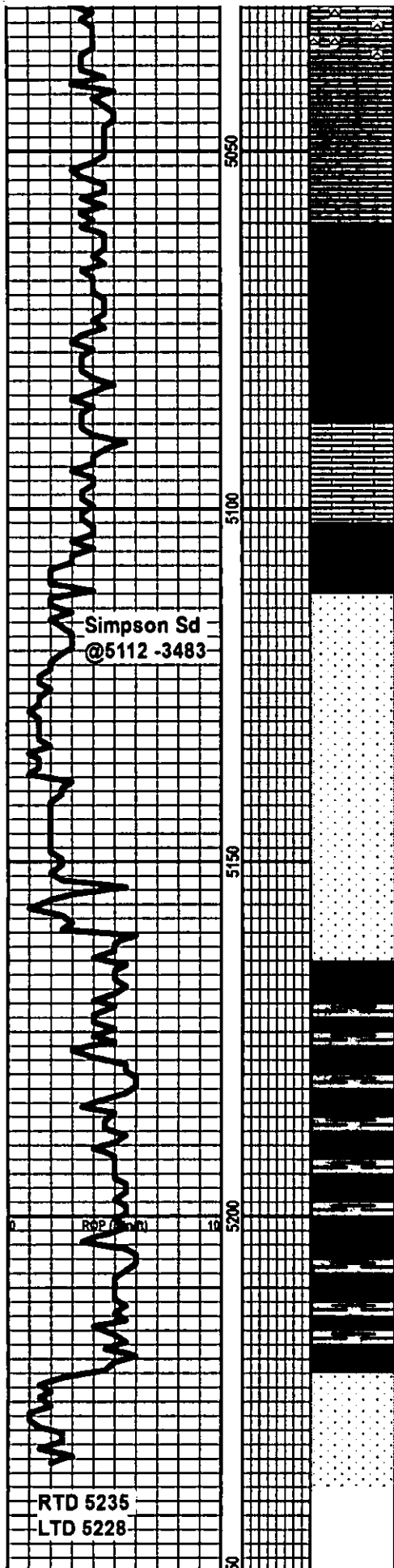
Shale: brown/black, very dense with fluorescence spores

SD.STN: fine grain, fair sorting, poor intergranular porosity, bright pin point fluorescence, slight stain, slight odor when chrushed, poor cut, small amount of shale in sand cluster, sct heavy brown stain.,

LS: cream, coarsexyln, poor interxyln porosity, no show, sample mostly shale, no show.



Trip out of hole
to repair mud
pump@ 5034'
down



LS: gray/brown, microxyn, cherty, no visible porosity, poor interxyn porosity, scattered slight fluorescence in chert.

LS: brown, microxyn, cherty, finexyn, poor interxyn porosity, Chert: brown, sharp, vitreous, set semi trans in part.

LS: off white, coarsexyn, friable, no show, mottled in part, no show,

5114 30 min: SD.STN: clear grained, fine grain, poorly sorted, poor intergranular porosity, no show. Shale: green waxey

5114 60min: SD.STN. fine grain, poorly sorted, sub rounded, friable, no show, shly in part,

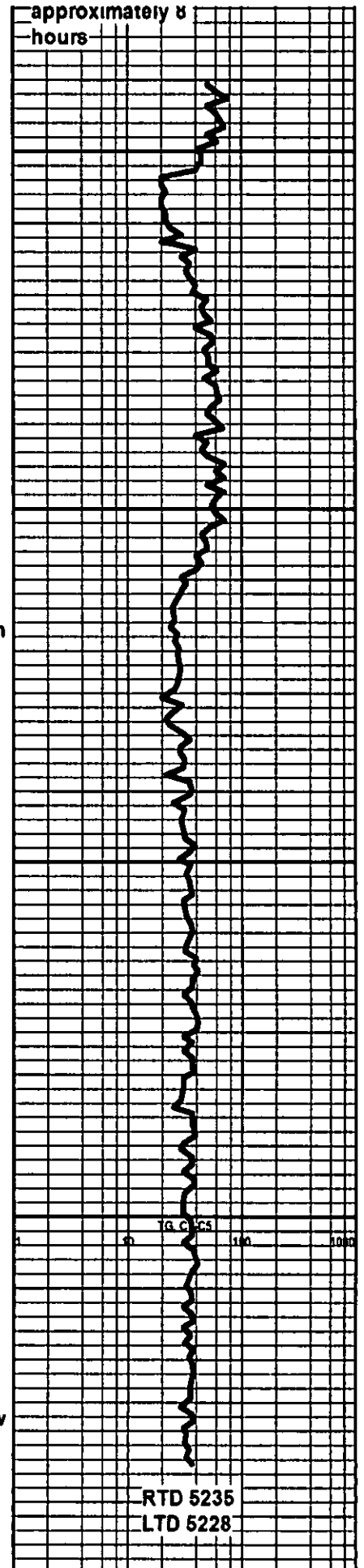
SD.Stn.: brown to white, , fine grain, poorly sorted, set over growths, small amount of gray shale, no show, no odor, Shale: green, waxey,

Shale: green, waxey, gray/green in part

Shale: green to gray/green

SD.STN.: fine to medium grained, clear grained, poor intergranular porosity, no show no odor.

RTD 5235
LTD 5228



RTD 5235
LTD 5228
