



KANSAS CORPORATION COMMISSION 1074870  
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 # 34352  
Name: N-10 Exploration, LLC  
Address 1: 124 N MAIN  
Address 2: PO BOX 195  
City: ATTICA State: KS Zip: 67009 +  
Contact Person: Randy Newberry  
Phone: ( 620 ) 254-7251  
CONTRACTOR: License # 33902  
Name: Hardt Drilling LLC  
Wellsite Geologist: Tim Pierce  
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 #: \_\_\_\_\_

11/17/2011	11/26/2011	12/8/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-23803-00-00  
Spot Description: SE SE  
SE SE Sec. 10 Twp. 34 S. R. 11  East  West  
660 Feet from  North /  South Line of Section  
660 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Barber  
Lease Name: Medicine River Ranch Well #: D3  
Field Name: Landis

Producing Formation: Mississippi  
Elevation: Ground: 1370 Kelly Bushing: 1380  
Total Depth: 5100 Plug Back Total Depth: 5064  
Amount of Surface Pipe Set and Cemented at: 269 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: 34000 ppm Fluid volume: 160 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: Jody Oil & Gas Corporation  
Lease Name: Sanders 3A SWD License #: 3288  
Quarter SW Sec. 20 Twp. 31 S. R. 8  East  West  
County: Harper Permit #: D23313

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 Garcia Date: 02/24/2012



1074870

Operator Name: N-10 Exploration, LLC Lease Name: Medicine River Ranch Well #: D3  
 Sec. 10 Twp. 34 S. R. 11  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:  Dual Induction Dual Compensated Porosity	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border: none;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Mississippi</td> <td>4575</td> <td>(-3195)</td> </tr> </table>	Name	Top	Datum	Mississippi	4575	(-3195)
Name	Top	Datum					
Mississippi	4575	(-3195)					

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	12.25	8.625	23	269	Class A	225	2% gel, 3% cc
Production	7.875	5.5	14	5094	Class H	150	10% salt, 5# kolseal

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 (Amount and Kind of Material Used)	Depth
2	4584 - 4660	Acid 4000 gal 15% MCA Acid	
		Frac 2647sx 30/70 sand	
		400 sx 16/30 sand	
		210 sx Resin Coated Sand	

TUBING RECORD: Size: <u>2.875</u> Set At: <u>4786</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>12/20/2011</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>45</u> Gas Mcf <u>160</u> Water Bbls. <u>350</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)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4584 - 4660</u>
--	--	--

# ALLIED CEMENTING CO., LLC. 037767

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: NEA 1st shift

DATE	SEC	TWP	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
11-18-11	16	34s	11w			2:00pm	2:30pm
LEASE <u>M/R</u>	WELL # <u>D-3</u>	LOCATION <u>Gerlane Rd, Etobohol, S to Scott</u>				COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)		w into <u>conn</u>					

CONTRACTOR Hardy Rd 1  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4" T.D. 269'  
 CASING SIZE 8 5/8" DEPTH 256'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 400psi MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 20'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 16 bbls H<sub>2</sub>O

OWNER N-10 Exploration  
 CEMENT AMOUNT ORDERED 225sx 6040x 2 1/2" od  
+ 3 1/2"

EQUIPMENT  
 PUMP TRUCK: CEMENTER Mark Johnson  
 # 36725 HELPER Jason Thoresch  
 BULK TRUCK # 364 DRIVER Adam Miller  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON class A	135.00	2193.75
POZMIX	90.00	765.00
GEL	4.50	81.00
CHLORIDE	8.00	465.60
ASC	0.00	
HANDLING	237.00	533.25
MILBAGE	15.11 x 237	391.05
TOTAL		4433.65

REMARKS:  
16 bbls H<sub>2</sub>O  
225sx cement  
16 bbls H<sub>2</sub>O  
conn + did calculate

SERVICE

DEPTH OF JOB	<u>256'</u>	
PUMP TRUCK CHARGE		1125.00
EXTRA FOOTAGE		
MILBAGE	<u>30'</u>	210.00
MANIFOLD		
<u>Light Vehicle</u>	<u>30'</u>	<u>NC</u> <u>N/C</u>
TOTAL		1335.00

CHARGE TO: N-10 Exploration  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 5768.65  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
4614.92

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Scott C. Adelman

# ALLIED CEMENTING CO., LLC. 037899

*Jame*

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665.

SERVICE POINT  
*Mechanic Lane, etc*

DATE <u>11-27-2011</u>	SEC. <u>10</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	CALLED OUT <u>8:00 AM</u>	ON LOCATION <u>12:00 PM</u>	JOB START <u>4:00 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>MRR D</u>		WELL # <u>3</u>	LOCATION <u>Gorlin &amp; Bethel Rd, 2 South</u>		COUNTY <u>Berhar</u>	STATE <u>Ks</u>	
OLD OR <u>(NEW)</u> (Circle one)			<u>do - Scar Canyon Rd, west to R3</u>				

CONTRACTOR Hart #1  
 TYPE OF JOB Production  
 HOLE SIZE 7 7/8 T.D. 5102'  
 CASING SIZE 5 1/2 DEPTH 5083'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 3'  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 120 1/2 bbls of 2% KCL water

OWNER NIO Exploration  
 CEMENT  
 AMOUNT ORDERED 150 SX CLASS H + 10% SALT + 5# Kaseal, 40 SX W.O. 40; 4 Regel + 4 RSMs

EQUIPMENT  
 PUMP TRUCK Cementer Darr F  
#471-302 HELPER Ron G.  
 BULK TRUCK  
#364 DRIVER John  
 BULK TRUCK  
 DRIVER \_\_\_\_\_

COMMON	<u>84 SX</u>	@	<u>116.85</u>	<u>390.00</u>
POZMIX	<u>116 SX</u>	@	<u>8.50</u>	<u>136.00</u>
GEL	<u>2 SX</u>	@	<u>81.85</u>	<u>42.50</u>
CHLORIDE		@		
ASC		@		
H 150 SX		@	<u>19.25</u>	<u>2887.00</u>
SALT 15 SX		@	<u>12.00</u>	<u>180.00</u>
Kaseal 750 #		@	<u>.89</u>	<u>167.50</u>
ASF 500 gals		@	<u>1.37</u>	<u>635.00</u>
Capra 15 gal		@	<u>31.85</u>	<u>468.75</u>
HANDLING	<u>220</u>	@	<u>2.25</u>	<u>499.50</u>
MILBAGE	<u>222 x .11 x 15</u>	@		<u>366.30</u>
TOTAL				<u>\$4433.65</u>

REMARKS:  
Pipe on bottom & break circulation, pump  
20 bbls 2% KCL water, 3 bbls fresh water  
500 gals ASF, 3 bbls fresh water, mix  
1500 cement for P&S hole, mix 28% of  
sequencer cement, 1500 of 2-9-1 cement  
Show down 1095 pump liner, Retain plug  
5000 displacement, L.A. Pressure 9.96 bbls  
8000 cm to 8 hrs 9.11 bbls Pump line 5.12  
bbls 200-1400 PSI, 11000 hold

SERVICE

DEPTH OF JOB	<u>5083'</u>		
PUMP TRUCK CHARGE			<u>2405-</u>
EXTRA FOOTAGE		@	
MILBAGE	<u>30</u>	@	<u>7.00</u> <u>210.00</u>
MANIFOLD Hesi insp. fee		@	<u>280.00</u>
light truck	<u>30</u>	@	<u>4.00</u> <u>120.00</u>
TOTAL <u>\$2935.00</u>			

CHARGE TO: NIO Exploration  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

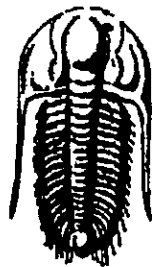
<u>5 1/2</u>			
1- Rubber Plug	@		<u>166-</u>
1- Guide Shoe	@		<u>100.80</u>
1- AFU Insert	@		<u>112.00</u>
8- Conersizers	@	<u>32.20</u>	<u>257.60</u>
10- Screens	@	<u>23.94</u>	<u>239.40</u>
TOTAL <u>\$775.80</u>			

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME x TIM PIERCE  
 SIGNATURE x Tim Pierce

SALES TAX (if Any) \_\_\_\_\_  
 TOTAL CHARGES 8,144.45  
 DISCOUNT 20% IF PAID IN 30 DAYS  
Net \$6,515.56

Thank you!!!



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration LLC**

PO Box 195  
Attica KS 67009

ATTN: Randy Newberry/Tim P

**10-34s-11w Barber,KS**

**Medicine River Ranch D-3**

Start Date: 2011.11.22 @ 06:04:57

End Date: 2011.11.22 @ 14:05:57

Job Ticket #: 44107                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.01 @ 13:58:41

N-10 Exploration LLC

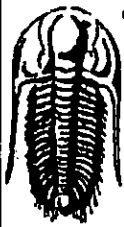
Medicine River Ranch D-3

10-34s-11w Barber,KS

DST # 1

Mississippi

2011.11.22



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

N-10 Exploration LLC

Medicine River Ranch D-3

PO Box 195  
Attica KS 67009

10-34s-11w Barber, KS

Job Ticket: 44107

DST#: 1

ATTN: Randy Newberry/Tim P

Test Start: 2011.11.22 @ 06:04:57

### GENERAL INFORMATION:

Formation: **Mississipp**

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

Time Tool Opened: 09:08:42

Time Test Ended: 14:05:57

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Chris Staats**

Unit No: **34**

Interval: **4560.00 ft (KB) To 4625.00 ft (KB) (TVD)**

Total Depth: **4625.00 ft (KB) (TVD)**

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

Reference Elevations: **1380.00 ft (KB)**

**1370.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **8166** Outside

Press@RunDepth: **40.37 psig @ 4561.00 ft (KB)**

Start Date: **2011.11.22**

End Date:

2011.11.22

Capacity: **8000.00 psig**

Last Calib.:

2011.11.22

Start Time: **06:05:02**

End Time:

14:05:56

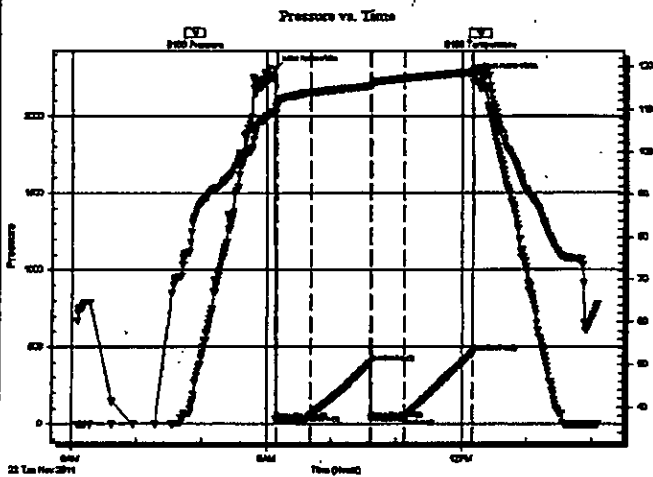
Time On Btm:

2011.11.22 @ 09:06:57

Time Off Btm:

2011.11.22 @ 12:12:12

TEST COMMENT: IF: Strong blow BOB 4 min  
IS: Weak blow back 3 1/2"  
FF: Strong blow BOB 30 sec  
FSt: No blow back



### PRESSURE SUMMARY

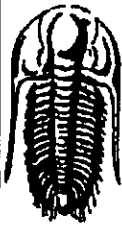
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.85	109.36	Initial Hydro-static
2	24.42	110.62	Open To Flow (1)
34	56.57	113.91	Shut-In(1)
90	399.06	115.53	End Shut-In(1)
91	34.75	115.53	Open To Flow (2)
121	40.37	117.24	Shut-In(2)
184	460.67	118.71	End Shut-In(2)
186	2254.66	119.48	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	900' GIP	0.00
60.00	Gassy Mud 2% gas 98% mud	0.30'

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

N-10 Exploration LLC

Medicine River Ranch D-3

PO Box 195  
Attica KS 67009

10-34s-11w Barber, KS

ATTN: Randy Newberry/Tim P

Job Ticket: 44107

DST#: 1

Test Start: 2011.11.22 @ 06:04:57

**Tool Information**

Drill Pipe:	Length: 4426.00 ft	Diameter: 3.80 inches	Volume: 62.09 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.67 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4560.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

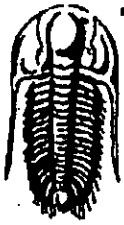
Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			4540.00	
Shut In Tool	5.00			4545.00	
Hydraulic tool	5.00			4550.00	
Packer	5.00			4555.00	21.00 Bottom Of Top Packer
Packer	5.00			4560.00	
Stubb	1.00			4561.00	
Recorder	0.00	6773	Outside	4561.00	
Recorder	0.00	8166	Outside	4561.00	
Perforations	5.00			4566.00	
Change Over Sub	0.50			4566.50	
Drill Pipe	30.00			4596.50	
Change Over Sub	0.50			4597.00	
Perforations	25.00			4622.00	
Bullnose	3.00			4625.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

N-10 Exploration LLC

Medicine River Ranch D-3

PO Box 195  
Attica KS 67009

10-34s-11w Barber, KS

Job Ticket: 44107

DST#: 1

ATTN: Randy Newberry/Tim P

Test Start: 2011.11.22 @ 06:04:57

### 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: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure: psig

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	900' GIP	0.000
60.00	Gassy Mud 2% gas 98% mud	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

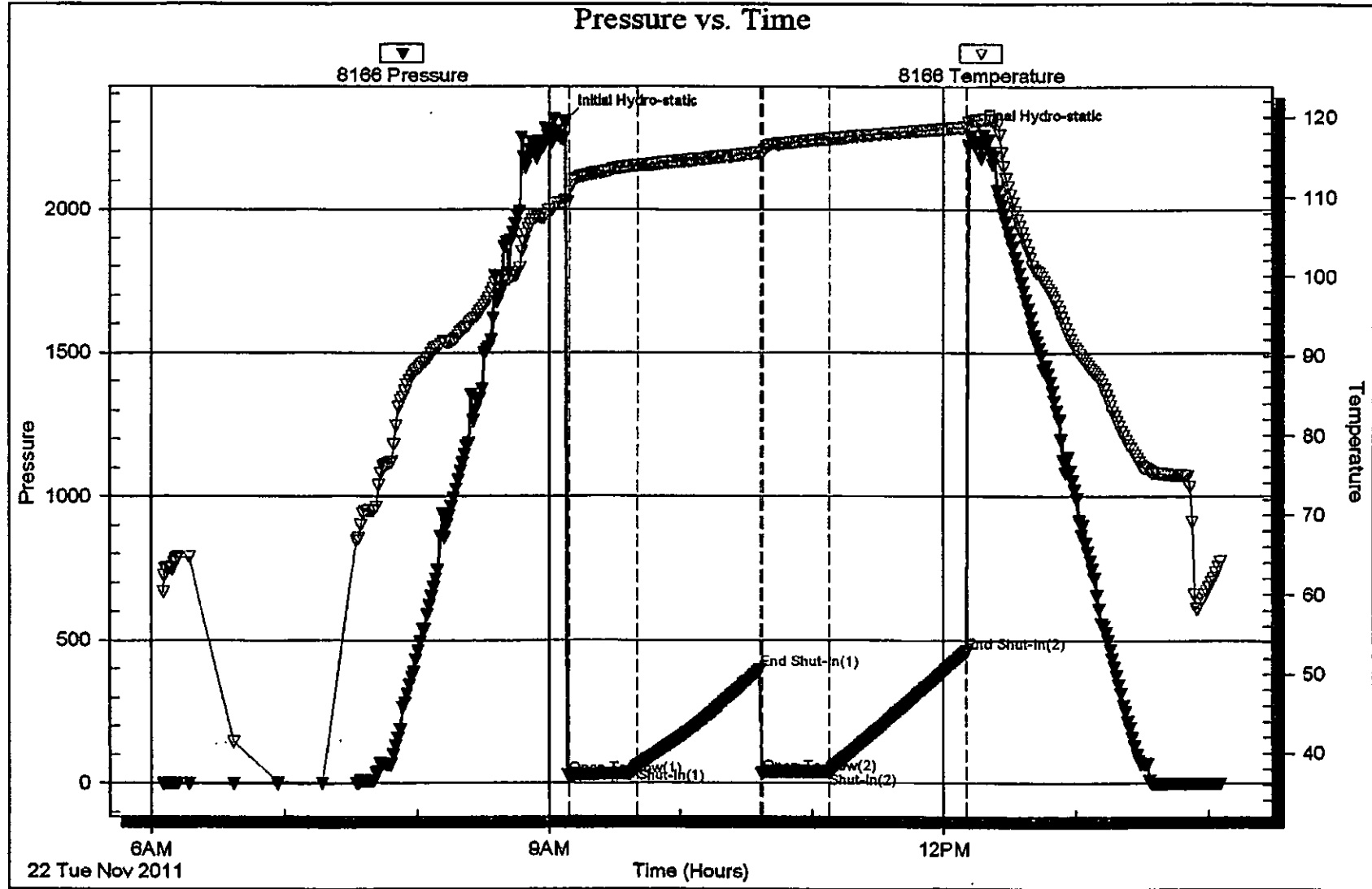


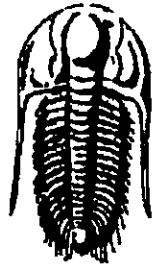
Serial #: 8166

Outside N-10 Exploration LLC

10-34s-11w Barber,KS

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration LLC**

PO Box 195  
Attica KS 67009

ATTN: Randy Newberry/Tim P

**10-34s-11w Barber,KS**

**Medicine River Ranch D-3**

Start Date: 2011.11.23 @ 07:46:42

End Date: 2011.11.23 @ 14:29:27

Job Ticket #: 44108                      DST #: 2

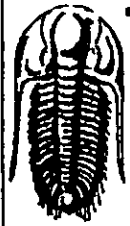
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.01 @ 13:57:01

N-10 Exploration LLC  
Medicine River Ranch D-3  
10-34s-11w Barber,KS  
DST # 2  
Misenar  
2011.11.23



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

N-10 Exploration LLC  
 PO Box 195  
 Attica KS 67009  
 ATTN: Randy Newberry/Tim P

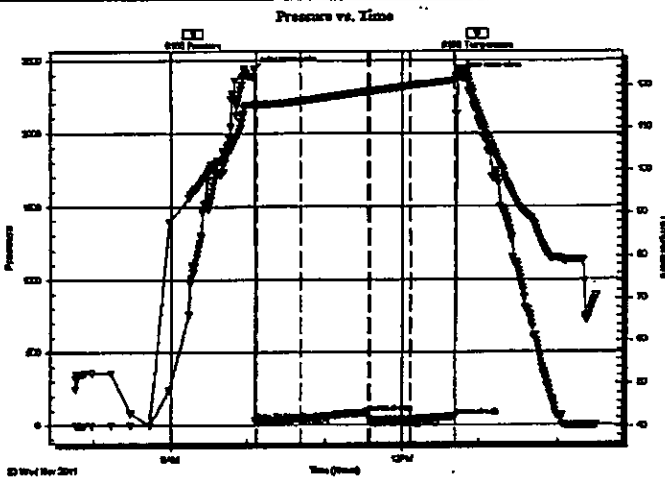
Medicine River Ranch D-3  
 10-34s-11w Barber, KS  
 Job Ticket: 44108 DST#: 2  
 Test Start: 2011.11.23 @ 07:46:42

**GENERAL INFORMATION:**

Formation: **Misener**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: **10:06:27**  
 Time Test Ended: **14:29:27**  
 Interval: **4873.00 ft (KB) To 4900.00 ft (KB) (TVD)**  
 Total Depth: **4900.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Chris Staats**  
 Unit No: **34**  
 Reference Elevations: **1380.00 ft (KB)**  
**1370.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

Serial #: **8166** Outside  
 Press@RunDepth: **37.99 psig @ 4874.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2011.11.23** End Date: **2011.11.23** Last Calib.: **2011.11.23**  
 Start Time: **07:46:47** End Time: **14:29:26** Time On Btm: **2011.11.23 @ 10:05:12**  
 Time Off Btm: **2011.11.23 @ 12:44:27**

TEST COMMENT: IF: Weak blow 1 1/2" Blow died  
 IS: No blow back  
 FF: No blow  
 FS: No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2436.11	115.50	Initial Hydro-static
2	34.00	115.48	Open To Flow (1)
36	43.62	116.23	Shut-In(1)
89	87.92	118.48	End Shut-In(1)
90	34.03	118.52	Open To Flow (2)
121	37.99	119.81	Shut-In(2)
156	58.37	121.14	End Shut-In(2)
160	2389.32	123.88	Final Hydro-static

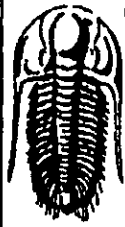
**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	mud	0.15

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

N-10 Exploration LLC

Medicine River Ranch D-3

PO Box 195  
Attica KS 67009

10-34s-11w Barber, KS

Job Ticket: 44108

DST#: 2

ATTN: Randy Newberry/Tim P

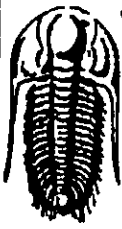
Test Start: 2011.11.23 @ 07:46:42

**Tool Information**

Drill Pipe:	Length: 4761.00 ft	Diameter: 3.80 inches	Volume: 66.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 67.36 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4873.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4853.00	
Shut In Tool	5.00			4858.00	
Hydraulic tool	5.00			4863.00	
Packer	5.00			4868.00	21.00 Bottom Of Top Packer
Packer	5.00			4873.00	
Stubb	1.00			4874.00	
Recorder	0.00	6773	Outside	4874.00	
Recorder	0.00	8166	Outside	4874.00	
Perforations	23.00			4897.00	
Bullnose	3.00			4900.00	27.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

N-10 Exploration LLC

Medicine River Ranch D-3

PO Box 195  
Attica KS 67009

10-34s-11w Barber, KS

Job Ticket: 44108

DST#: 2

ATTN: Randy Newberry/Tim P

Test Start: 2011.11.23 @ 07:46:42

### 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: 44.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.18 in<sup>2</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	mud	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

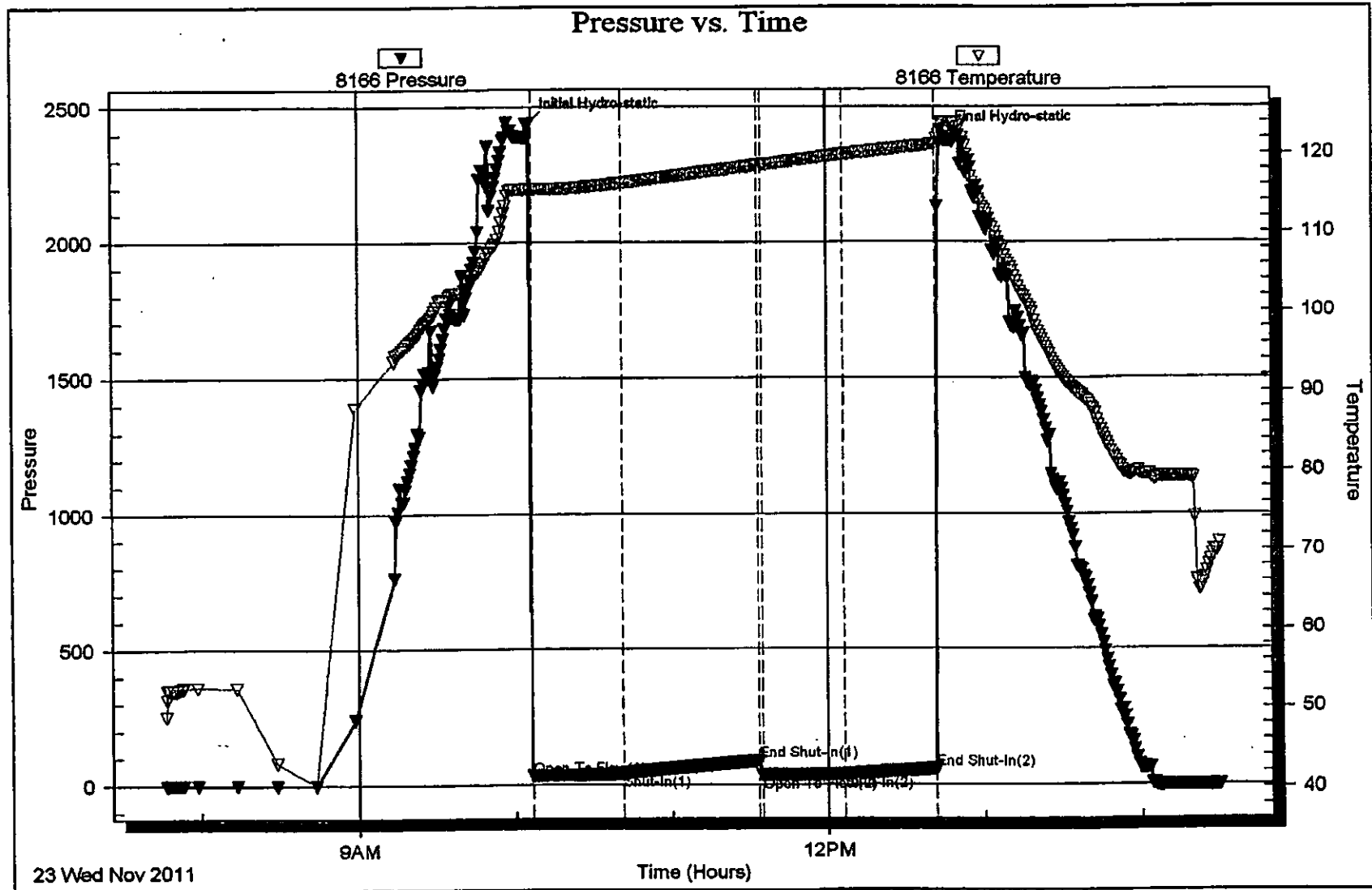
Recovery Comments:

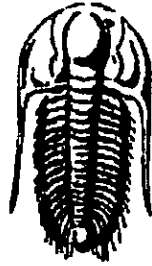
Serial #: 8166

Outside N-10 Exploration LLC

10-34s-11w Barber,KS

DST Test Number: 2





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration LLC**

PO Box 195  
Attica KS 67009

ATTN: Randy Newberry/Tim P

**10-34s-11w Barber,KS**

**Medicine River Ranch D-3**

Start Date: 2011.11.24 @ 01:21:37

End Date: 2011.11.24 @ 11:19:37

Job Ticket #: 44109                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.01 @ 13:57:16

N-10 Exploration LLC

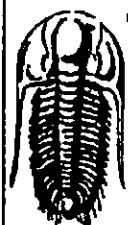
Medicine River Ranch D-3

10-34s-11w Barber,KS

DST # 3

Viola

2011.11.24



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

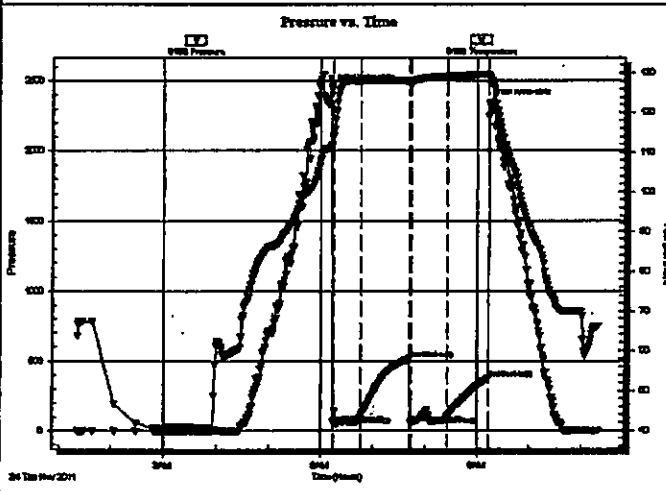
N-10 Exploration LLC	Medicine River Ranch D-3
PO Box 195 Attica KS 67009	10-349-11w Barber,KS
ATTN: Randy Newberry/TIM P	Job Ticket: 44109      DST#: 3
	Test Start: 2011.11.24 @ 01:21:37

### GENERAL INFORMATION:

Formation: Viola	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock      ft (KB)	Tester: Chris Staats
Time Tool Opened: 06:14:22	Unit No: 34
Time Test Ended: 11:19:37	
Interval: 4914.00 ft (KB) To 4934.00 ft (KB) (TVD)	Reference Elevations: 1380.00 ft (KB)
Total Depth: 4934.00 ft (KB) (TVD)	1370.00 ft (CF)
Hole Diameter: 7.88 inches	KB to GR/CP: 10.00 ft
Hole Condition: Fair	

<b>Serial #: 8168</b>	<b>Outside</b>		
Press@RunDepth: 98.63 psig @ 4915.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2011.11.24	Last Calib.: 2011.11.24	2011.11.24	
Start Time: 01:21:42	Time On Btm: 2011.11.24 @ 06:13:07	11:19:37	
	Time Off Btm: 2011.11.24 @ 09:14:22		

**TEST COMMENT:** IF: Strong blow BOB 8 min  
 IS: Weak surface blow back  
 FF: Strong blow BOB 23 min  
 FS: No blow back



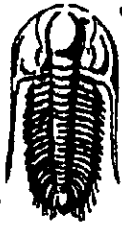
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2446.48	111.71	Initial Hydro-static
2	58.70	113.76	Open To Flow (1)
34	104.19	128.07	Shut-In(1)
90	512.91	128.01	End Shut-In(1)
92	58.45	126.85	Open To Flow (2)
133	98.63	129.12	Shut-In(2)
180	372.96	129.56	End Shut-In(2)
182	2342.38	129.03	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	310' GIP	0.00
90.00	W,M 10% water 90% mud	0.44
60.00	Slight oil cut M,W 1%oil 9% mud 90% w	0.59

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

N-10 Exploration LLC

Medicine River Ranch D-3

PO Box 195  
Attica KS 67009

10-34s-11w Barber, KS

Job Ticket: 44109

DST#: 3

ATTN: Randy Newberry/Tim P

Test Start: 2011.11.24 @ 01:21:37.

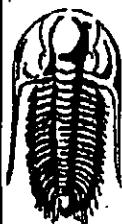
**Tool Information**

Drill Pipe:	Length: 4793.00 ft	Diameter: 3.80 inches	Volume: 67.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 67.81 bbl		Tool Chased 2.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4914.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4894.00	
Shut In Tool	5.00			4899.00	
Hydraulic tool	5.00			4904.00	
Packer	5.00			4909.00	21.00 Bottom Of Top Packer
Packer	5.00			4914.00	
Stubb	1.00			4915.00	
Recorder	0.00	6773	Outside	4915.00	
Recorder	0.00	6166	Outside	4915.00	
Perforations	18.00			4931.00	
Bullnose	3.00			4934.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

N-10 Exploration LLC

Medicine River Ranch D-3

PO Box 195  
Atfca KS 67009

10-34s-11w Barber, KS

Job Ticket: 44109      DST#: 3

ATTN: Randy Newberry/TmP

Test Start: 2011.11.24 @ 01:21:37

### 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: 39.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in*	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	310' GP	0.000
90.00	W,M 10% water 90% mud	0.443
60.00	Slight oil cut M,W 1% oil 9% mud 90% water	0.587

Total Length: 150.00 ft      Total Volume: 1.030 bbl

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

Laboratory Name:      Laboratory Location:

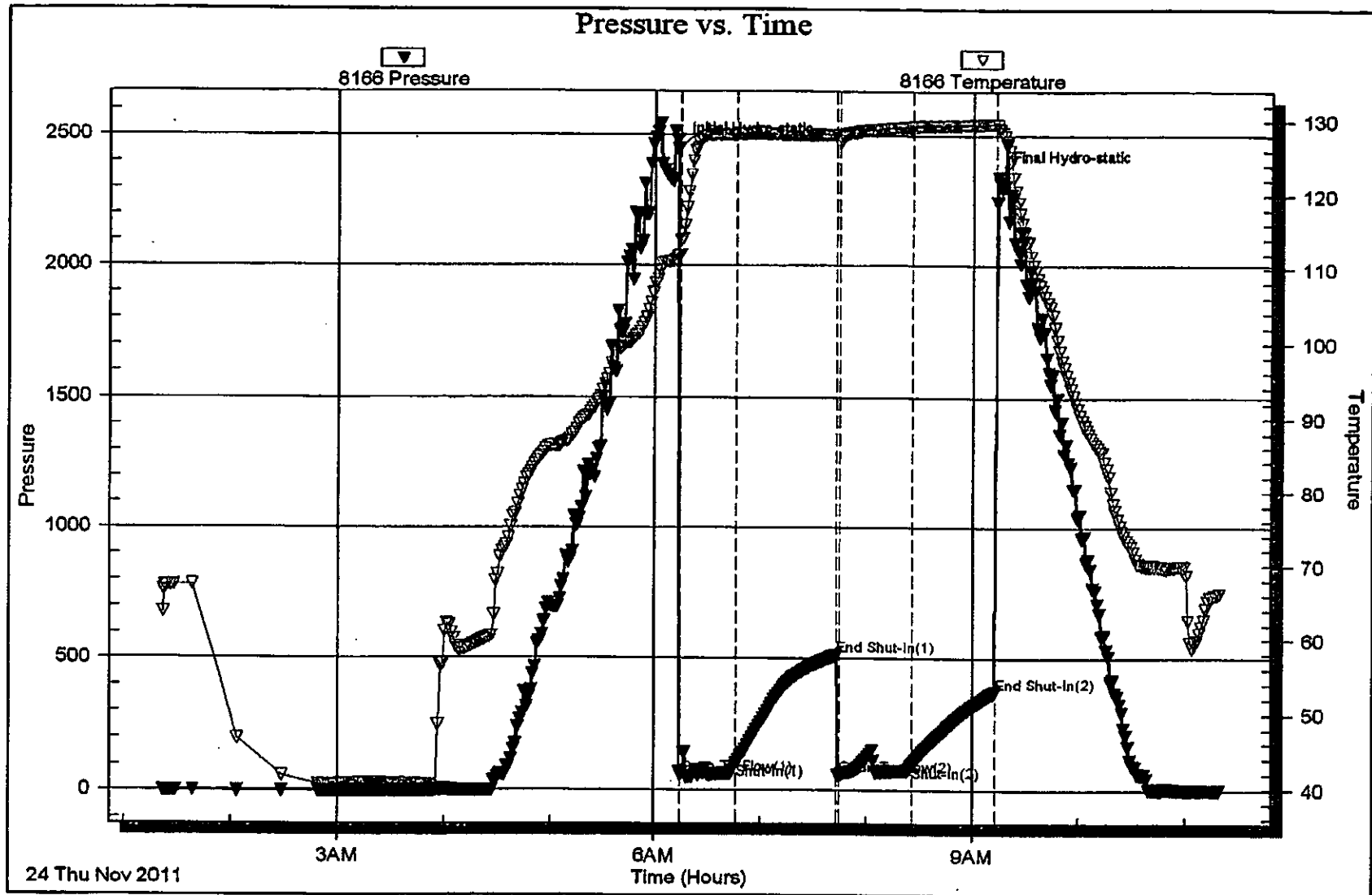
Recovery Comments:

Serial #: 8166

Outside N-10 Exploration LLC

10-34s-11w Barber,KS

DST Test Number: 3



# Timothy G. Pierce

## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY N-10 Exploration, LLC  
 LEASE Medicine River Ranch 'D' #3  
 FIELD Landis  
 LOCATION SE SE  
 SEC 10 TWSP 34S RGE 11W  
 COUNTY Barber STATE Kansas  
 CONTRACTOR Hardt Drilling Rig #1  
 SPUD 11-17-2011 COMP 11-27-2011  
 RTD 5102 LTD 5100  
 MUD UP 2861 TYPE MUD Chemical

#### ELEVATIONS

KB 1380'  
 DF \_\_\_\_\_  
 GL 1370'

Measurements Are All  
From Kelly Bushing

#### CASING

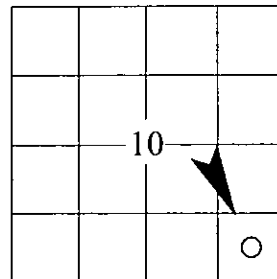
CONDUCTOR \_\_\_\_\_  
 SURFACE 8-5/8" at 269'  
 PRODUCTION 5-1/2" at 5094'

#### ELECTRICAL SURVEYS

DIL / CN-CD  
Log-Tech

SAMPLES SAVED FROM 4100 TO RTD  
 DRILLING TIME KEPT FROM 4000 TO RTD  
 SAMPLES EXAMINED FROM 4100 TO RTD  
 GEOLOGICAL SUPERVISION FROM 3725' to RTD  
 GEOLOGIST ON WELL Tim Pierce

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Heebner Sh.	3634 (-2254)	NA
Iatan LS.	4053 (-2673)	4054 (-2674)
Stark Sh.	4318 (-2938)	4318 (-2938)
Cherokee Sh.	4537 (-3157)	4539 (-3159)
Mississippi	4575 (-3195)	4578 (-3198)
Viola	4910 (-3530)	4911 (-3531)
Simpson	5003 (-3623)	5005 (-3625)



API # 15-007-23,803

**REMARKS** Samples and electric logs indicate a probable productive zone in the top of the Mississippi from 4585'-4660', this interval should be perforated and fracture treated for production.

A sample show in the Meisner Sand at 4886'-4888' was evaluated by DST with negative results

A sample show in the Viola at 4914'-4920' was evaluated by DST with negative results.

A sample show was observed in the Simpson sand at 5014'-5022'. electric logs indicate a tight sand, this interval should be evaluated before the well is plugged.

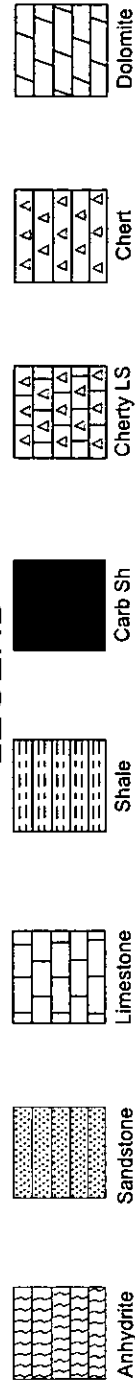
A gas kick was registered in the Pawnee LS from 4493'-4497', this zone should be considered before the well is plugged

A gas kick and sample show were observed in the Chattanooga Sh. at 4856'-4866', this should be considered before the well is plugged.

There were no other zones of interest indicated by samples or electric logs

Timothy G. Pierce

#### LEGEND



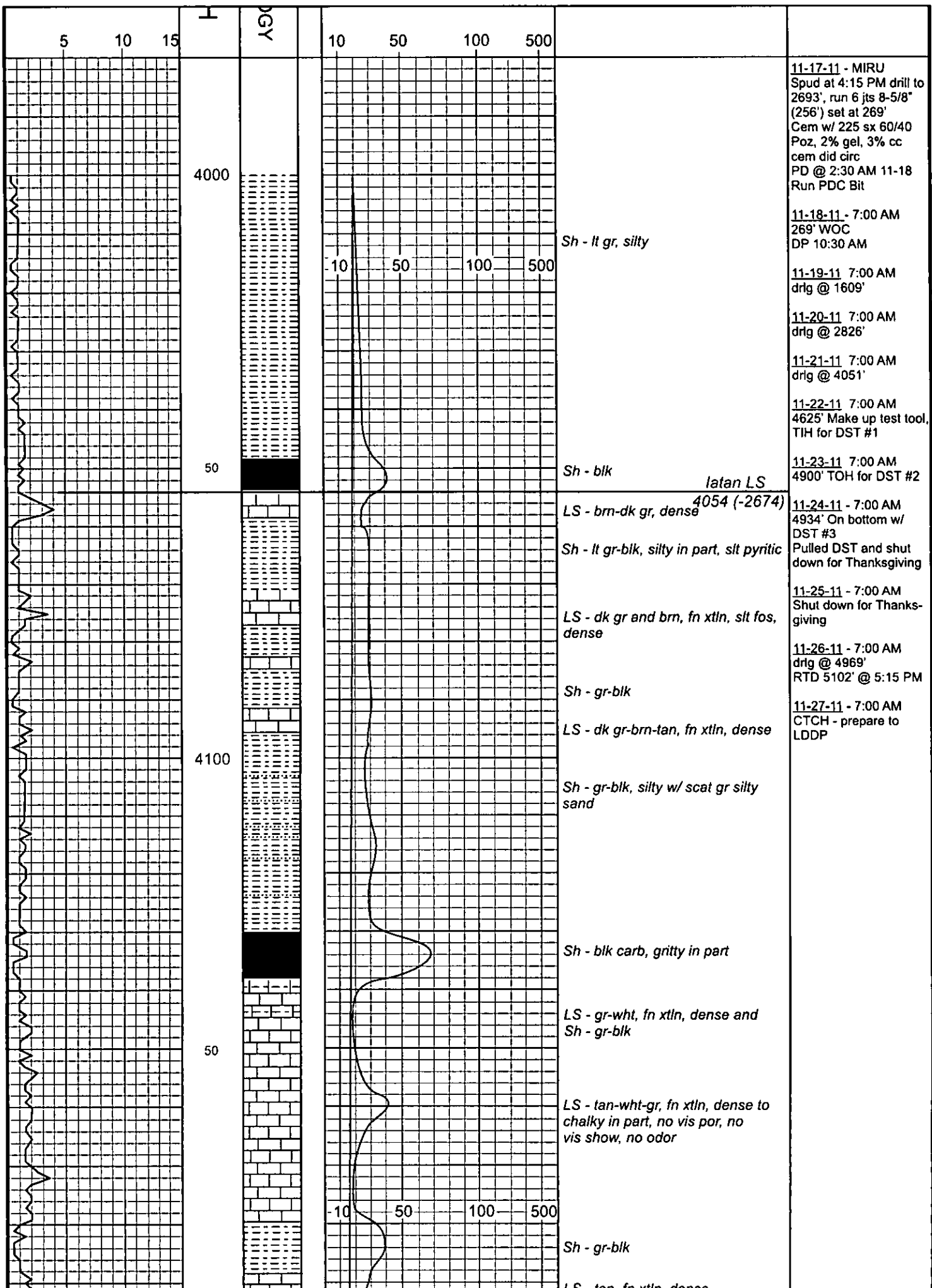
DRILLING TIME IN  
MINUTES PER FOOT  
Rate of Penetration Decreases ↑

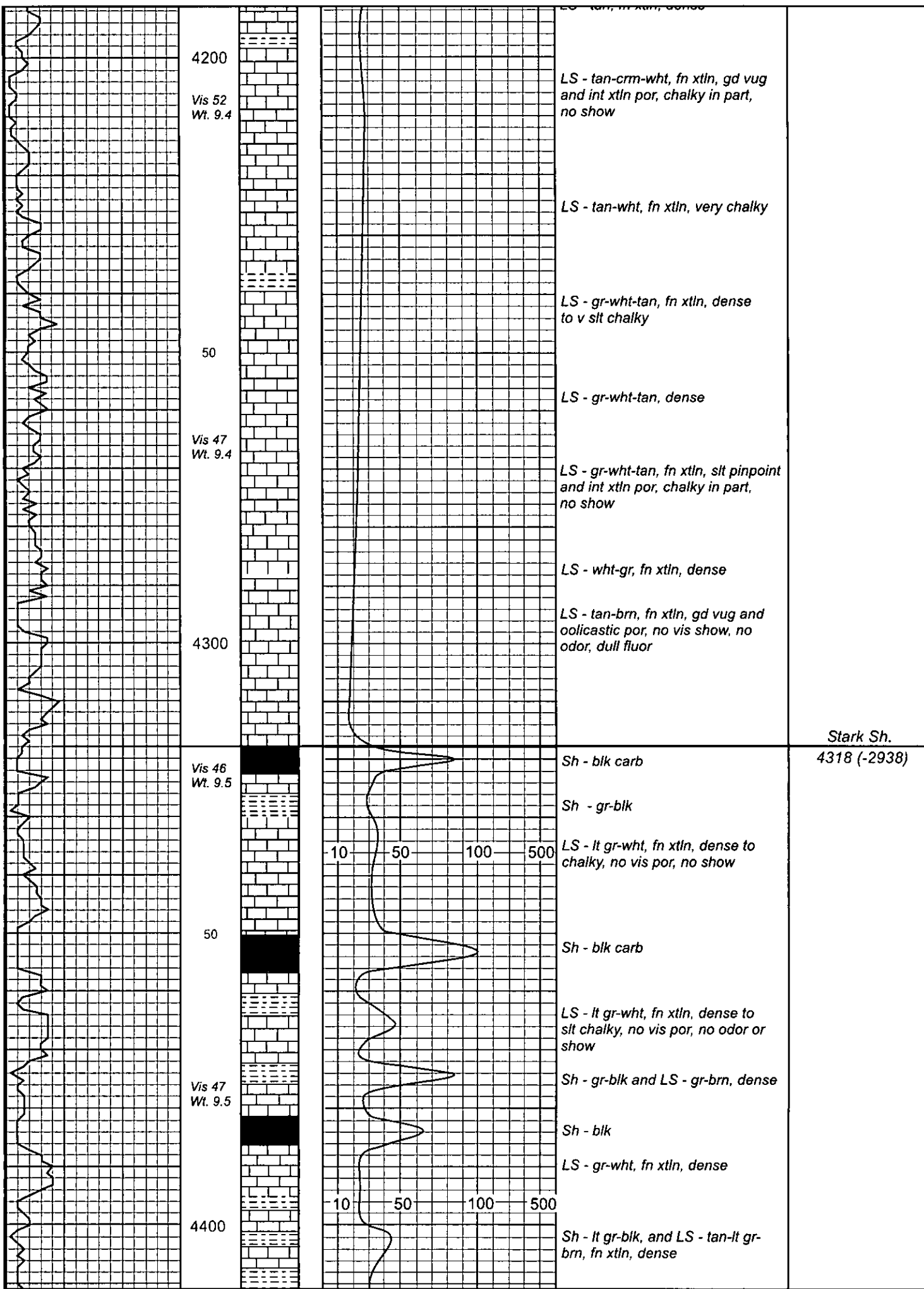
DEPTH

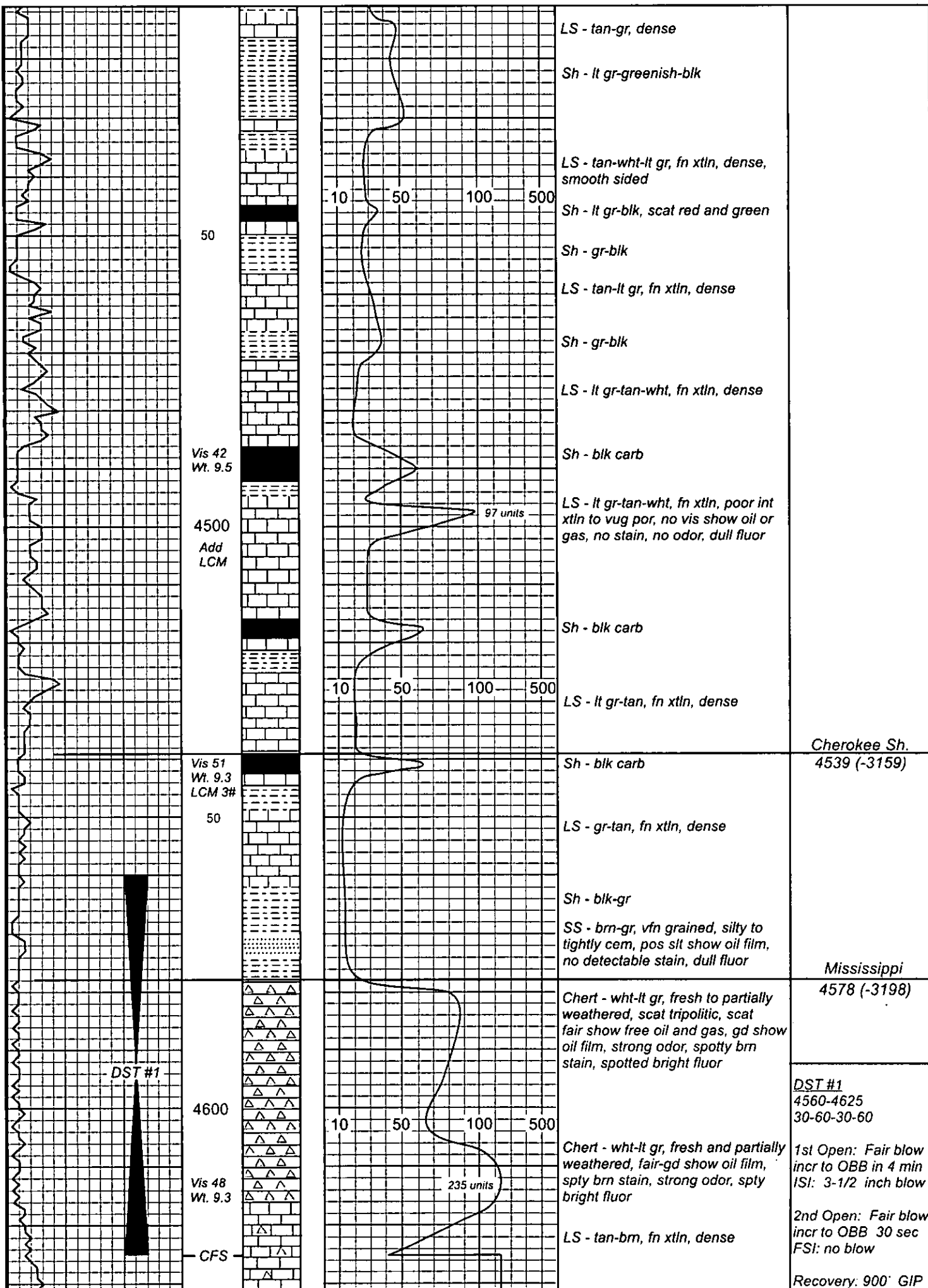
GAS SCALE

SAMPLE DESCRIPTION

REMARKS







50

Vis 42  
Wt. 9.5

4500  
Add  
LCM

Vis 51  
Wt. 9.3  
LCM 3#

50

DST #1

4600

Vis 48  
Wt. 9.3

CFS

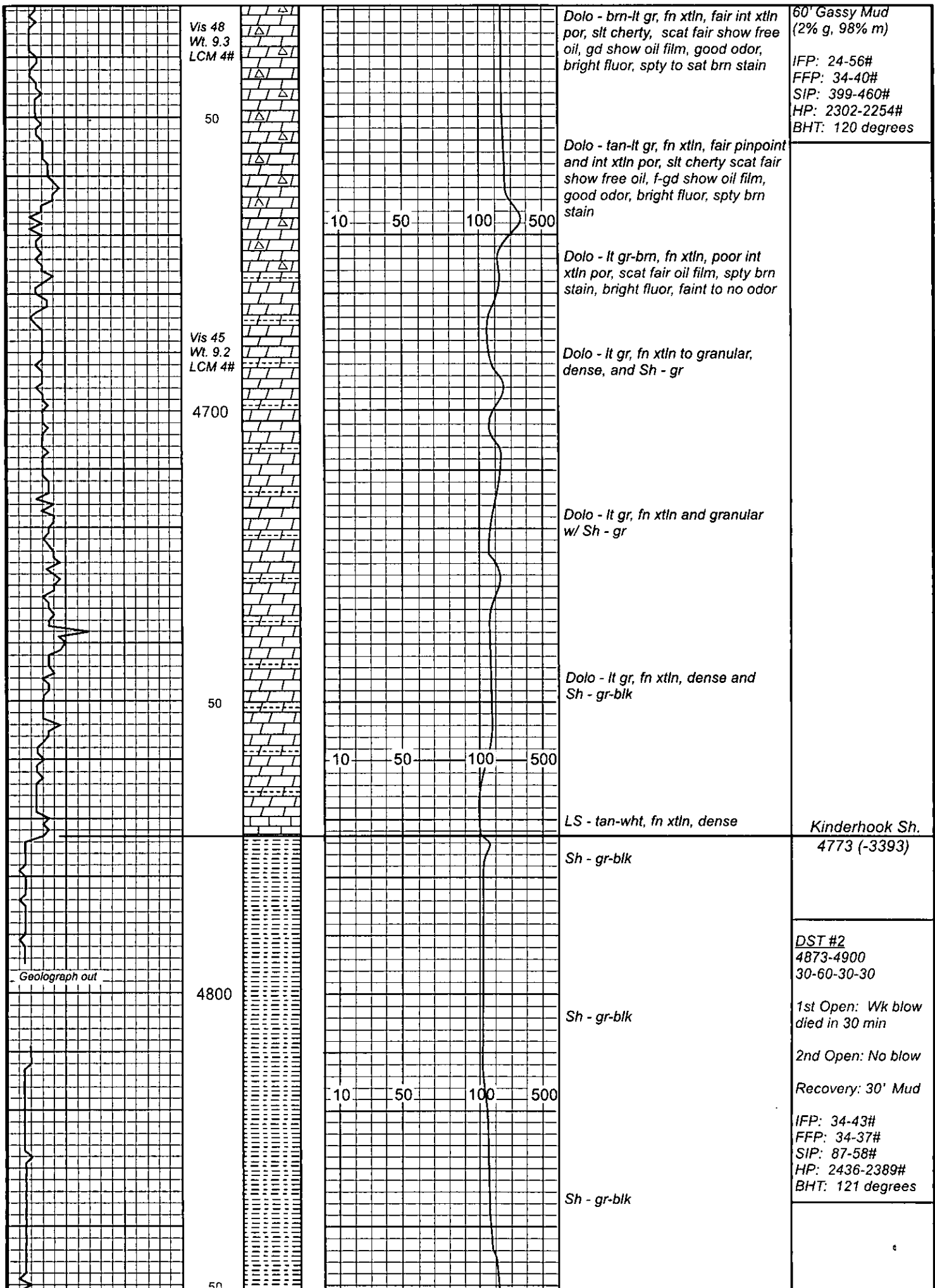
10 50 100 500

97 units

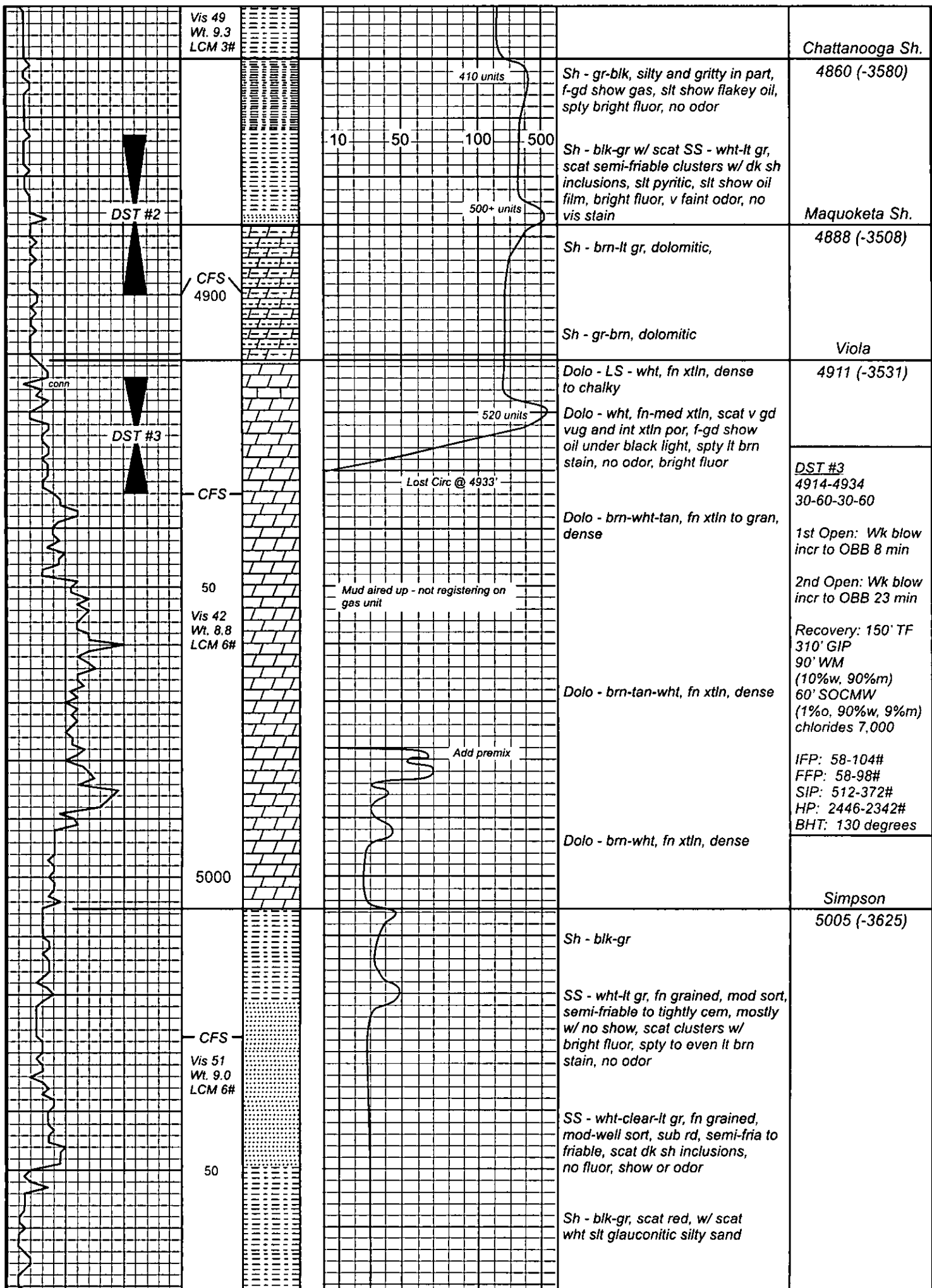
10 50 100 500

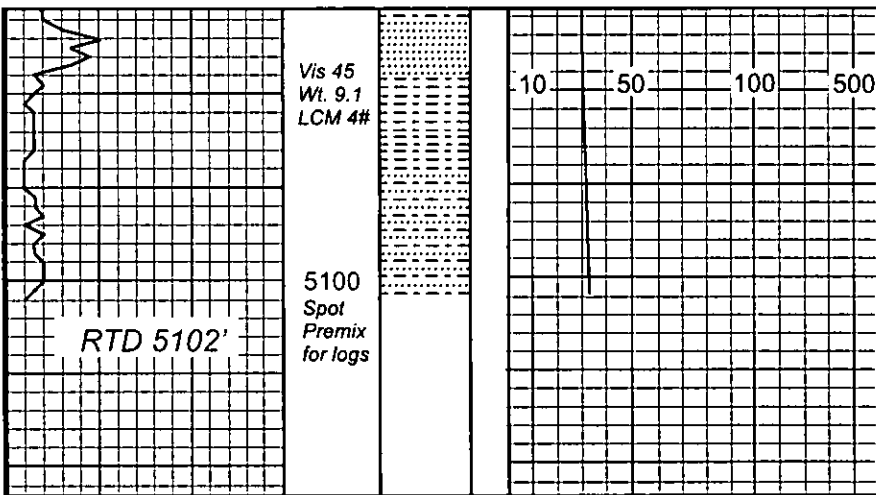
10 50 100 500

235 units





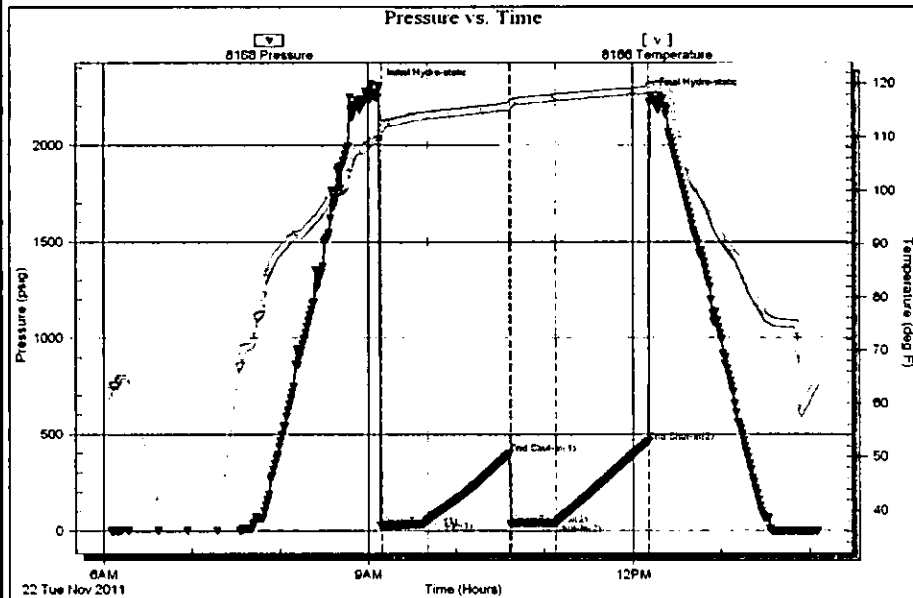




SS - wht-gr, fn grained, poorly sort, sub ang, silty in part, friable, slt glauconitic, slt pyritic, no show

Sh - blk-gr, w/ SS - gr-brn silty in part, fn grained, poorly sort, abundant dk mineral grains, no show

Serial # 8166 Outside N 10 Exploration LLC Medicine River Ranch CO DST Test Number 1



**DST #1**  
4560-4625  
30-60-30-60

1st Open: Fair blow  
incr to OBB in 4 min  
ISI: 3-1/2 inch blow

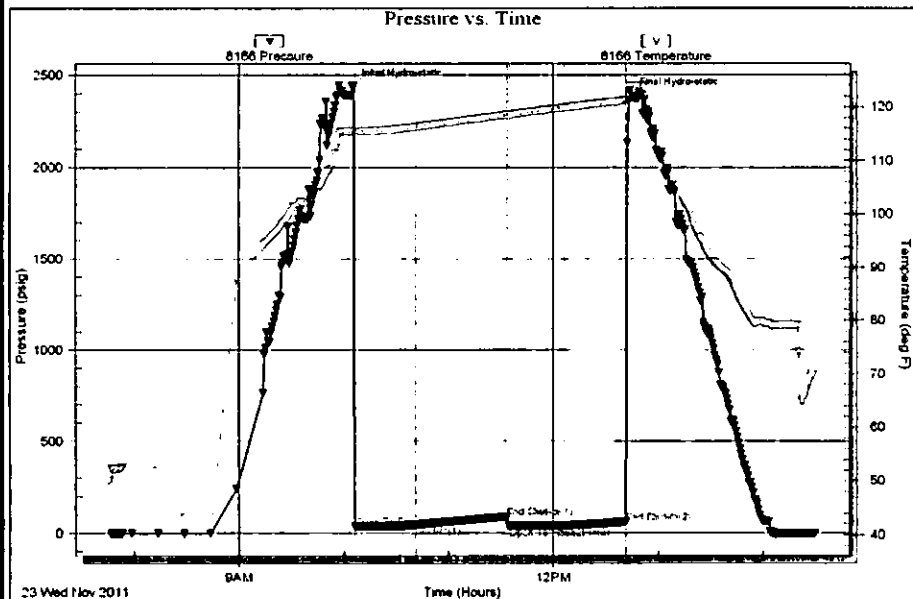
2nd Open: Fair blow  
incr to OBB 30 sec  
FSI: no blow

Recovery: 900' GIP  
60' Gassy Mud  
(2% g, 98% m)

IFP: 24-56#  
FFP: 34-40#  
SIP: 399-460#  
HP: 2302-2254#  
BHT: 120 degrees

Tribble Testing Inc Ref. No: 44107 Printed 2011.11.22 @ 14:34:00

Serial # 8168 Outside N 10 Exploration LLC Medicine River Ranch CO DST Test Number 2



**DST #2**  
4873-4900  
30-60-30-30

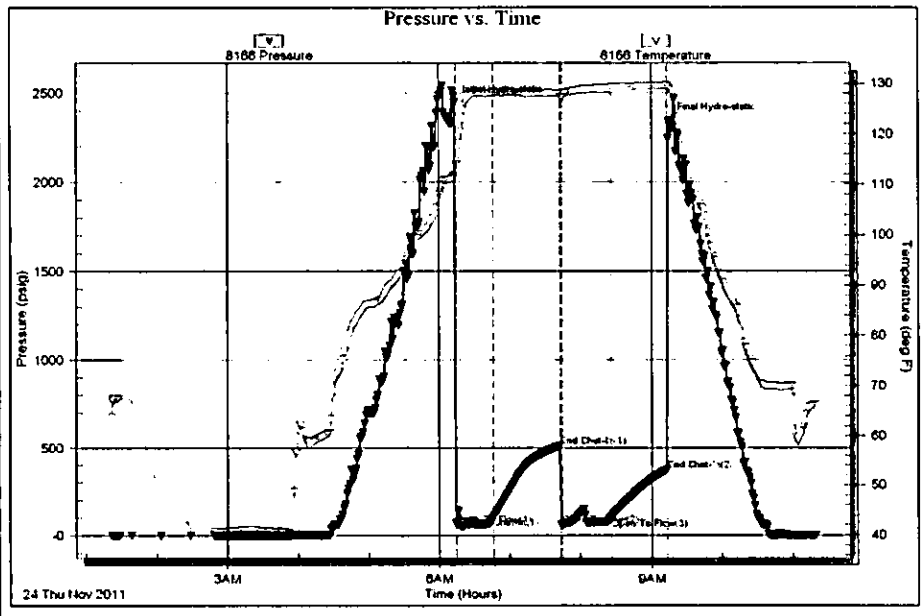
1st Open: Wk blow  
died in 30 min

2nd Open: No blow

Recovery: 30' Mud

IFP: 34-43#  
FFP: 34-37#  
SIP: 87-58#  
HP: 2436-2389#  
BHT: 121 degrees

Tribble Testing Inc Ref. No: 44108 Printed 2011.11.22 @ 14:50:00



**DST #3**  
 4914-4934  
 30-60-30-60

1st Open: Wk blow  
 incr to OBB 8 min

2nd Open: Wk blow  
 incr to OBB 23 min

Recovery: 150' TF  
 310' GIP  
 90' WM  
 (10%w, 90%m)  
 60' SOCMW  
 (1%o, 90%w, 9%m)  
 chlorides 7,000

IFP: 58-104#  
 FFP: 58-98#  
 SIP: 512-372#  
 HP: 2446-2342#  
 BHT: 130 degrees

