



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1124561
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
-
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-
 _____ Sec. _____ Twp. _____ S. R. _____ East West
 _____ Feet from North / South Line of Section
 _____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



1124561

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Crowe 4-23
Doc ID	1124561

Tops

Name	Top	Datum
Heebner	4261	-1996
Brown Lime	4445	-2180
Lansing	4459	-2194
Stark	4791	-2526
Hushpuckney	4841	-2576
KS City (base)	4891	-2626
Marmaton	4898	-2633
Altamount	4938	-2673
Pawnee	4968	-2703
Ft. Scott	5000	-2735
Cherokee	5013	-2248
Mississippi	5082	-2817
RTD	5280	-3015
LTD	5277	-3012

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 14, 2013

Evan Mayhew
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-097-21740-00-00
Crowe 4-23
NE/4 Sec.23-30S-19W
Kiowa County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Evan Mayhew

ALLIED CEMENTING CO., LLC. 038098

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge

DATE <i>11-25-12</i>	SEC. <i>23</i>	TWP. <i>30S</i>	RANGE <i>19W</i>	CALLED OUT <i>6:00 PM</i>	ON LOCATION <i>7:30 PM</i>	JOB START <i>11:30</i>	JOB FINISH <i>12:30</i>
LEASE <i>Crowe</i>	WELL # <i>4-25</i>	LOCATION <i>100 Polluter N to Rd. W 2 W</i>			COUNTY <i>Kiowa</i>	STATE <i>Ks.</i>	
OLD OR <u>NEW</u> (Circle one)		<i>to dead end 1/2 N, W into</i>					

CONTRACTOR <i>Bredco</i>	OWNER <i>Barexco</i>
TYPE OF JOB <i>Surface</i>	
HOLE SIZE <i>12 1/4</i>	T.D. <i>695</i>
CASING SIZE <i>4 5/8</i>	DEPTH <i>692</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <i>42.47</i>
CEMENT LEFT IN CSG. <i>42.47</i>	
PERFS.	
DISPLACEMENT <i>4 2 1/2 BBLs</i>	

CEMENT			
AMOUNT ORDERED <i>175</i>			
<i>150sx Class A + 37.00 + 29.00</i>			
<i>25sx 65.35 + 69.00</i>			
COMMON <i>150</i> SK	@ <i>11.90</i>		<i>2685.00</i>
POZMIX	@		
GEL <i>3</i> SK	@ <i>23.40</i>		<i>70.20</i>
CHLORIDE <i>11</i> SK	@ <i>64.00</i>		<i>704.00</i>
ASC	@		
<i>AW 175</i> SK	@ <i>16.50</i>		<i>2887.50</i>
<i>Flo Seal 43.75</i>	@ <i>2.97</i>		<i>129.93</i>
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING <i>445.96</i>	@ <i>7.48</i>		<i>1105.98</i>
MILEAGE <i>20.42 / 30 / 2.60</i>			<i>2654.30</i>

PUMP TRUCK CEMENTER *Ron Gilley*
358-555 HELPER *Scott Priddy*
BULK TRUCK
661-553 DRIVER *Justin Bower*
BULK TRUCK
DRIVER

REMARKS:
See Cement log
Shut in
Cement Did Circulate

CHARGE TO: *Barexco*
STREET
CITY STATE ZIP

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 Mijo Salinas*
SIGNATURE *X Mijo Salinas*

TOTAL *10,237.21*

SERVICE

DEPTH OF JOB <i>695'</i>		
PUMP TRUCK CHARGE		<i>2058.00</i>
EXTRA FOOTAGE	@	
MILEAGE <i>50</i>	@ <i>7.70</i>	<i>385.00</i>
MANIFOLD <i>N/A</i>	@	
<i>Light Vehs, N/A</i>	@	
	@	

TOTAL *2443.00*

8 5/8 PLUG & FLOAT EQUIPMENT

<i>1- Rubber Plug</i>	@	<i>398.97</i>
<i>1- Baffle Plate</i>	@	<i>320.50</i>
	@	
	@	

TOTAL *719.47*

SALES TAX (If Any) *525.31*
TOTAL CHARGES *13,399.68*
DISCOUNT *287.375/91* IF PAID IN 30 DAYS
NET 9647.77



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.
 2020 N. Bramblewood
 Wichita, KS 67206-1094
 ATTN: David Gould

23-30s.-19w. Kiowa Co.
Crowe 4-23
 Job Ticket: 49707 **DST#: 1**
 Test Start: 2012.12.04 @ 13:08:28

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 16:07:28
 Time Test Ended: 23:12:58
 Interval: **4917.00 ft (KB) To 4965.00 ft (KB) (TVD)**
 Total Depth: 4965.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 2265.00 ft (KB)
 2252.00 ft (CF)
 KB to GR/CF: 13.00 ft

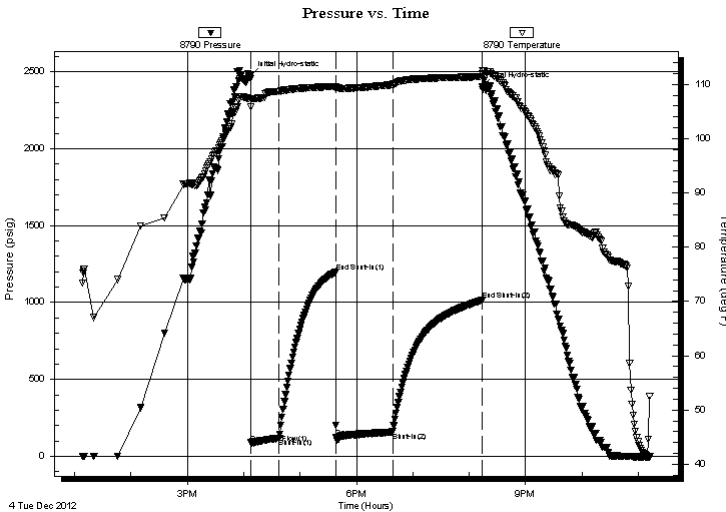
Serial #: 8790

Inside

Press @ Run Depth: 159.70 psig @ 4918.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.04 End Date: 2012.12.04 Last Calib.: 2012.12.04
 Start Time: 13:08:33 End Time: 23:12:58 Time On Btm: 2012.12.04 @ 16:07:13
 Time Off Btm: 2012.12.04 @ 20:13:43

TEST COMMENT: IF: Strong blow . BoB 4min. No GTS.
 IS: No blow
 FF: Strong blow . BOB 30sec. GTS @ 23min. Gauged gas
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2472.96	107.35	Initial Hydro-static
1	87.72	105.83	Open To Flow (1)
31	118.28	108.70	Shut-In(1)
91	1197.55	109.63	End Shut-In(1)
92	124.10	109.27	Open To Flow (2)
152	159.70	109.95	Shut-In(2)
247	1013.28	111.42	End Shut-In(2)
247	2403.83	112.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCMG 10%oil, 40%mud, 50%gas	0.89
90.00	WOCGM 1%w tr, 3%oil, 25%gas, 71%ml	0.44
35.00	SLI WCM 2%w tr, 98%mud	0.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.00	7.26
Last Gas Rate	0.13	6.75	7.92
Max. Gas Rate	0.13	6.75	7.92



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

23-30s.-19w. Kiowa Co.

2020 N. Bramblewood
Wichita, KS 67206-1094

Crowe 4-23

Job Ticket: 49707

DST#: 1

ATTN: David Gould

Test Start: 2012.12.04 @ 13:08:28

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:

9000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	OCMG 10%oil, 40%mud, 50%gas	0.885
90.00	WOCGM 1%w tr, 3%oil, 25%gas, 71%mud	0.443
35.00	SLI WCM 2%w tr, 98%mud	0.172

Total Length: 305.00 ft

Total Volume: 1.500 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

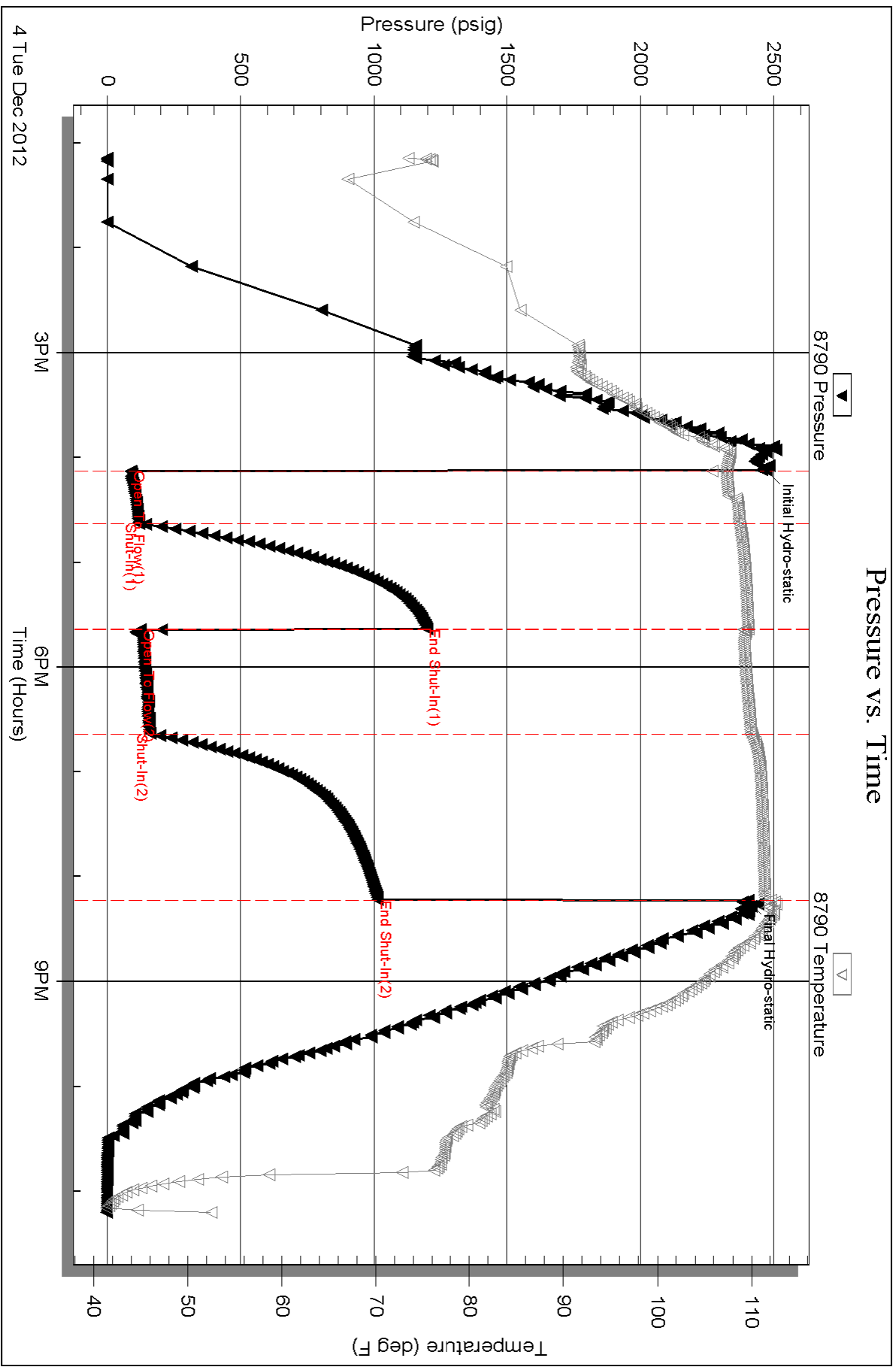
Serial #: 8790

Inside

Berexco LLC.

Crow e 4-23

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49707

Printed: 2012.12.05 @ 08:21:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.
2020 N. Bramblewood
Wichita, KS 67206-1094
ATTN: David Gould

23-30s.-19w. Kiowa Co.
Crowe 4-23
Job Ticket: 49708 **DST#: 2**
Test Start: 2012.12.06 @ 04:14:30

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 08:54:15
Time Test Ended: 16:40:45
Interval: **5100.00 ft (KB) To 5137.00 ft (KB) (TVD)**
Total Depth: 5137.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Reynolds
Unit No: 48
Reference Elevations: 2265.00 ft (KB)
2252.00 ft (CF)
KB to GR/CF: 13.00 ft

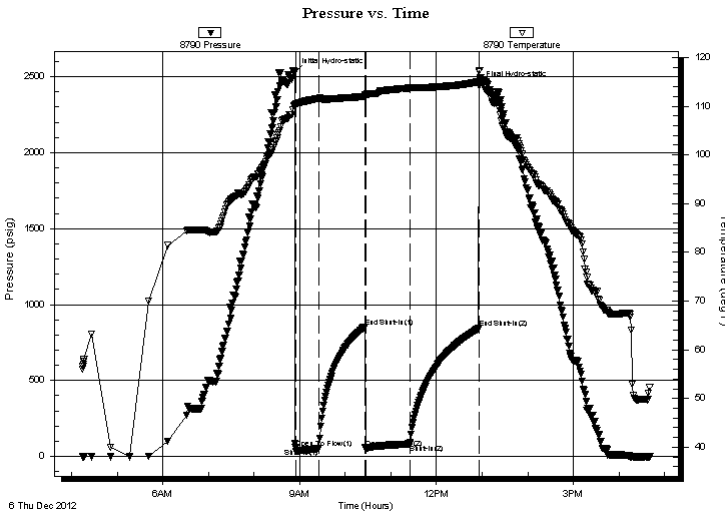
Serial #: 8790

Inside

Press @ RunDepth: 82.03 psig @ 5101.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.12.06 End Date: 2012.12.06 Last Calib.: 2012.12.06
Start Time: 04:14:35 End Time: 16:40:45 Time On Btm: 2012.12.06 @ 08:53:30
Time Off Btm: 2012.12.06 @ 12:56:15

TEST COMMENT: IF: Strong blow . BOB 15sec. GTS @ 28min.
IS: No blow
FF: Strong blow . BOB immed. Guaged gas throughout
FSI: Weak surf. blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2529.50	110.21	Initial Hydro-static
1	56.47	110.30	Open To Flow (1)
33	53.78	111.61	Shut-In(1)
93	855.36	111.98	End Shut-In(1)
94	51.82	112.27	Open To Flow (2)
152	82.03	113.72	Shut-In(2)
242	843.88	115.00	End Shut-In(2)
243	2440.61	117.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OWGM 13%oil, 17%w tr, 20%gas, 50%0.44	
45.00	SLI OCM TRc%oil, 99% mud	0.22

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.00	7.63
Last Gas Rate	0.13	5.75	7.54
Max. Gas Rate	0.13	6.00	7.63



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

23-30s.-19w. Kiowa Co.

2020 N. Bramblewood
Wichita, KS 67206-1094

Crowe 4-23

Job Ticket: 49708

DST#: 2

ATTN: David Gould

Test Start: 2012.12.06 @ 04:14:30

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:

25000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	OWGM 13%oil, 17%w tr, 20%gas, 50% muc	0.443
45.00	SLI OCM TRc%oil, 99% mud	0.221

Total Length: 135.00 ft

Total Volume: 0.664 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Berexco LLC.

23-30s.-19w. Kiowa Co.

2020 N. Bramblewood
Wichita, KS 67206-1094

Crowe 4-23

Job Ticket: 49708

DST#: 2

ATTN: David Gould

Test Start: 2012.12.06 @ 04:14:30

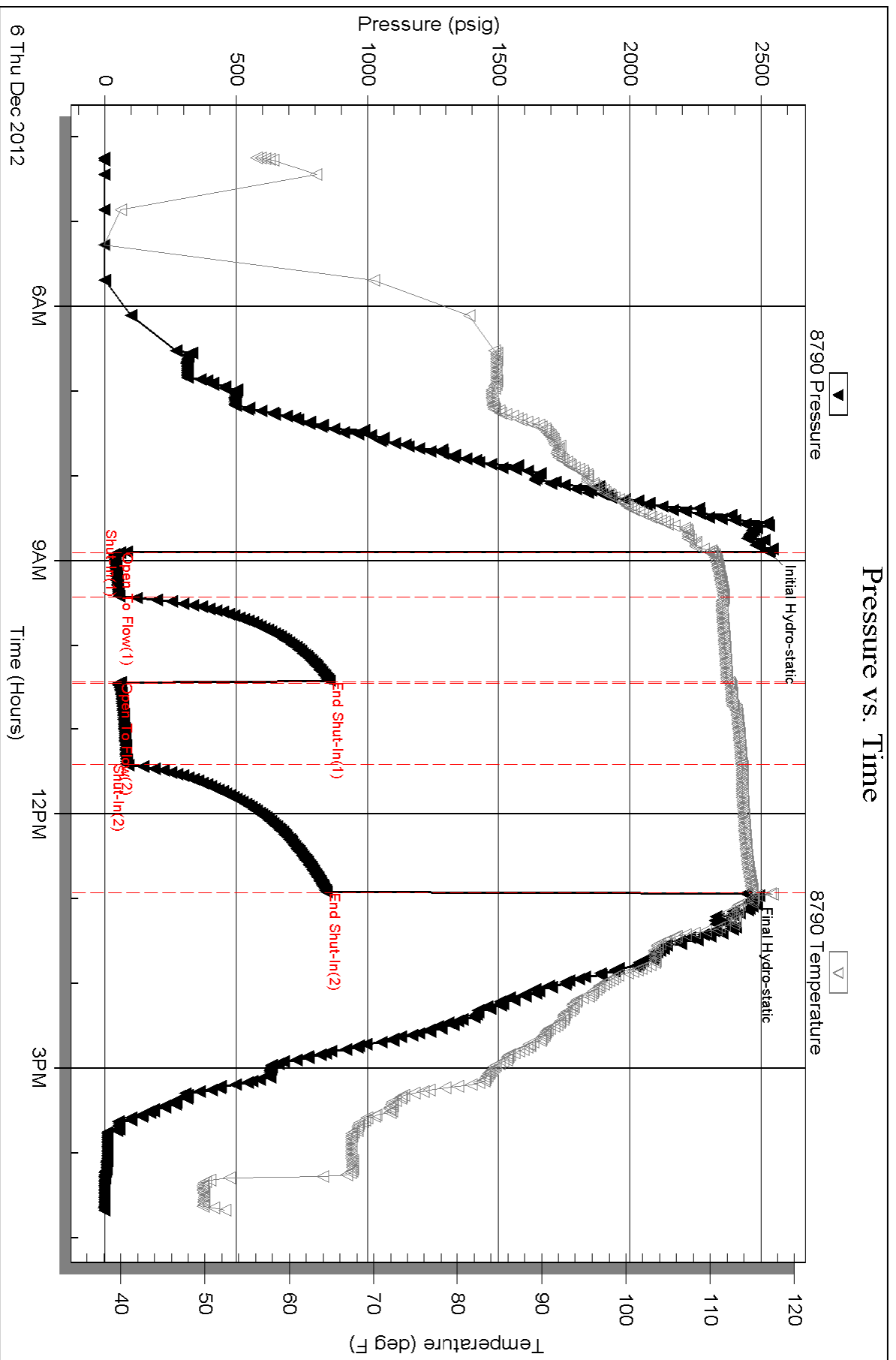
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	30	0.13	6.00	7.63
1	30	0.13	5.00	7.26
2	10	0.13	5.25	7.36
2	20	0.13	5.50	7.45
2	30	0.13	5.50	7.45
2	40	0.13	5.75	7.54
2	50	0.13	5.75	7.54

Pressure vs. Time



ALLIED OIL & GAS SERVICES, LLC 059706

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge KS

DATE <u>12/09/12</u>	SEC <u>23</u>	TWP <u>30s</u>	RANGE <u>19w</u>	CAELED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Crowe</u>	WELL # <u>4-23</u>	LOCATION <u>1607 183, North to Rd W,</u>			COUNTY <u>Clay</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)		2 west to T, 1/4 mile West into					

CONTRACTOR Beredco OWNER Berexco

TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>5280</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>5277</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>1700</u>	MINIMUM
MEAS. LINE	SHOE JOINT <u>43.5</u>
CEMENT LEFT IN CSG. <u>43.5</u>	
PERFS.	
DISPLACEMENT <u>12.6 Kilo Frac H₂O</u>	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Orin Thayer</u>	1
# <u>360/302</u>	HELPER <u>Sk. Heard</u>	3
BULK TRUCK		
# <u>356/290</u>	DRIVER <u>James Bovin / David Felio</u>	3
BULK TRUCK		
#	DRIVER	

CEMENT

AMOUNT ORDERED	<u>110 sk 65.35% 6e 1 1/4</u>
<u>Floreal, 175 sk Class A ASC + 6# Kalscal 4.5%</u>	<u>FL-160</u>

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC Class A	<u>175 sk @ 20.90</u>	<u>3657.50</u>
<u>Alkal. High Lat Type - Class A - 115 sk</u>	<u>@ 16.50</u>	<u>1815.00</u>
<u>Kalscal</u>	<u>1050 lbs @ .98</u>	<u>1029.00</u>
<u>Fl-160</u>	<u>82 lbs @ 18.90</u>	<u>1549.80</u>
<u>Floreal</u>	<u>28 lbs @ 2.99</u>	<u>83.16</u>

HANDLING <u>349.33 x 4</u>	@ <u>2.48</u>	<u>866.33</u>
MILEAGE <u>14.94 / 2.60 / 50</u>		<u>1942.20</u>
TOTAL		<u>10,016.89</u>

REMARKS:
Berexco Plug / Plug hold

CHARGE TO: Berexco
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>5280</u>	
PUMP TRUCK CHARGE	<u>3099.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>.50</u>	@ <u>7.70</u> <u>385.00</u>
MANIFOLD	@

TOTAL 3484.25

PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>	
AFH Float Slab	1 @ <u>232</u> <u>232</u>
Latch down Plug	1 @ <u>184</u> <u>184</u>
Centrifuge	12 @ <u>37</u> <u>444</u>
Basket	1 @ <u>178</u> <u>178</u>

TOTAL 1038

To: Allied Oil & Gas Services, 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)	<u>601.98</u>
TOTAL CHARGES	<u>14,539.14</u>
DISCOUNT <u>24%</u>	<u>3489.40</u>
(NET)	<u>11,049.74</u>

PRINTED NAME _____
SIGNATURE [Signature]

IF PAID IN 30 DAYS



WR

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: CROWE #4-23
Location: SW SW NE SECTION 23 30S 19W
License Number: 34317, API# 15-097-21740
Spud Date: 11/25/2012
Surface Coordinates: 2979' FROM SOUTH LINE OF SECTION
2306' FROM EAST LINE OF SECTION
Bottom Hole 2979' FROM SOUTH LINE OF SECTION
Coordinates: 2306' FROM SOUTH LINE OF SECTION
Ground Elevation (ft): 2252' K.B. Elevation (ft): 2265'
Logged Interval (ft): 4000' To: 5280' Total Depth (ft): 5280'
Formation: MISSISSIPPI
Type of Drilling Fluid: CHEMICAL, MUD-CO

Region: KIOWA CO. KS.
Drilling Completed: 12/09/2012

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: BEREXCO
Address: 2020 NORTH BRAMBLEWOOD
WICHITA, KANSAS 67206
(316) 337-8312

GEOLOGIST

Name: DAVID GOULD (LOGGER)
Company: DMT COMPANY
Address: 532 SUNRISE
PRATT, KANSAS 67124
(620) 388-2847

Well Name & No.: Crowe #4 23 Company: Berexco LLC Test No.: 1 Interval Tested: 4917 - 4965

Zone Tested: Aftamound Times: 30-60-60-90

Blow Description: IFP: Strong blow BOB 30 sec. ISI: No blow FFP: Strong blow BOB 30 sec. GTS @ 23 min. gauged gas throughout FSI: No blow

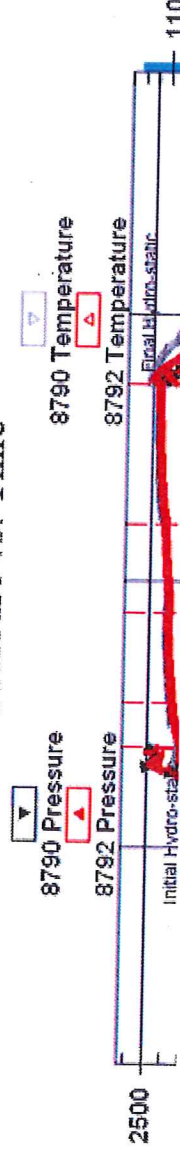
Rec: 35 Feet of SLI WCM 2% Water 98% Mud, 90 Feet of WOCGM 25% Gas 3% Oil 1% Water 71% Mud, 180 Feet of OCMG 50% Gas 10% Oil 0% Water 40% Mud Rec. Total: 305', BHT: 112 Gravity: N/C

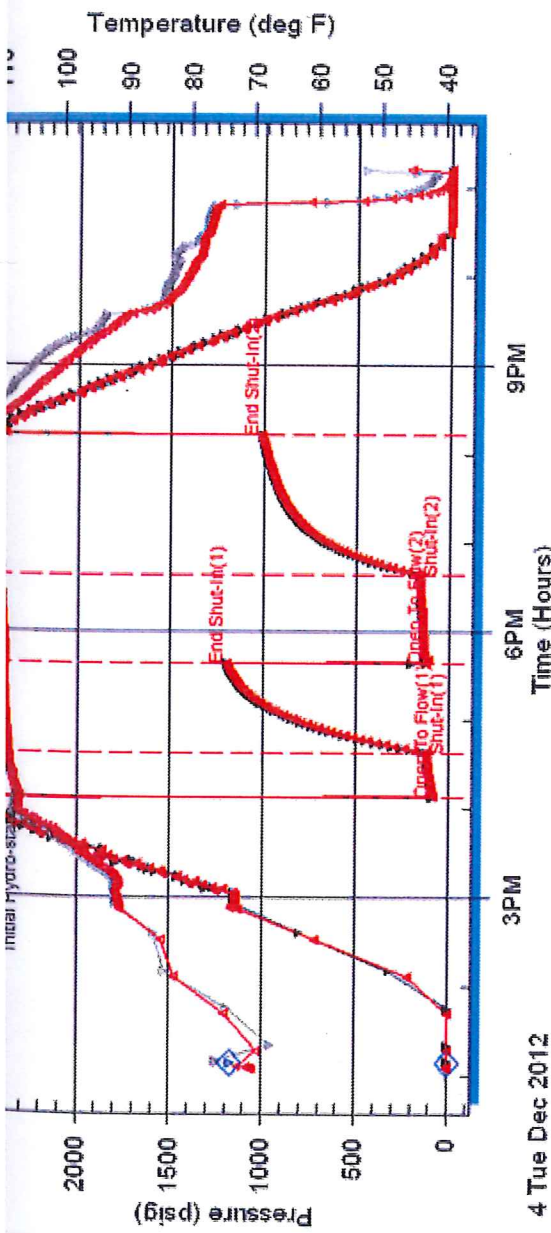
Initial Hydrostatic: 2473 First Initial Flow: 88 First Final Flow: 118 Initial Shut-In: 198

Second Initial Flow: 124 Second Final Flow: 160 Final Shut-In: 1013 Final Hydrostatic: 2404

12/24/2012 17:52: 1260.077

Pressure vs. Time



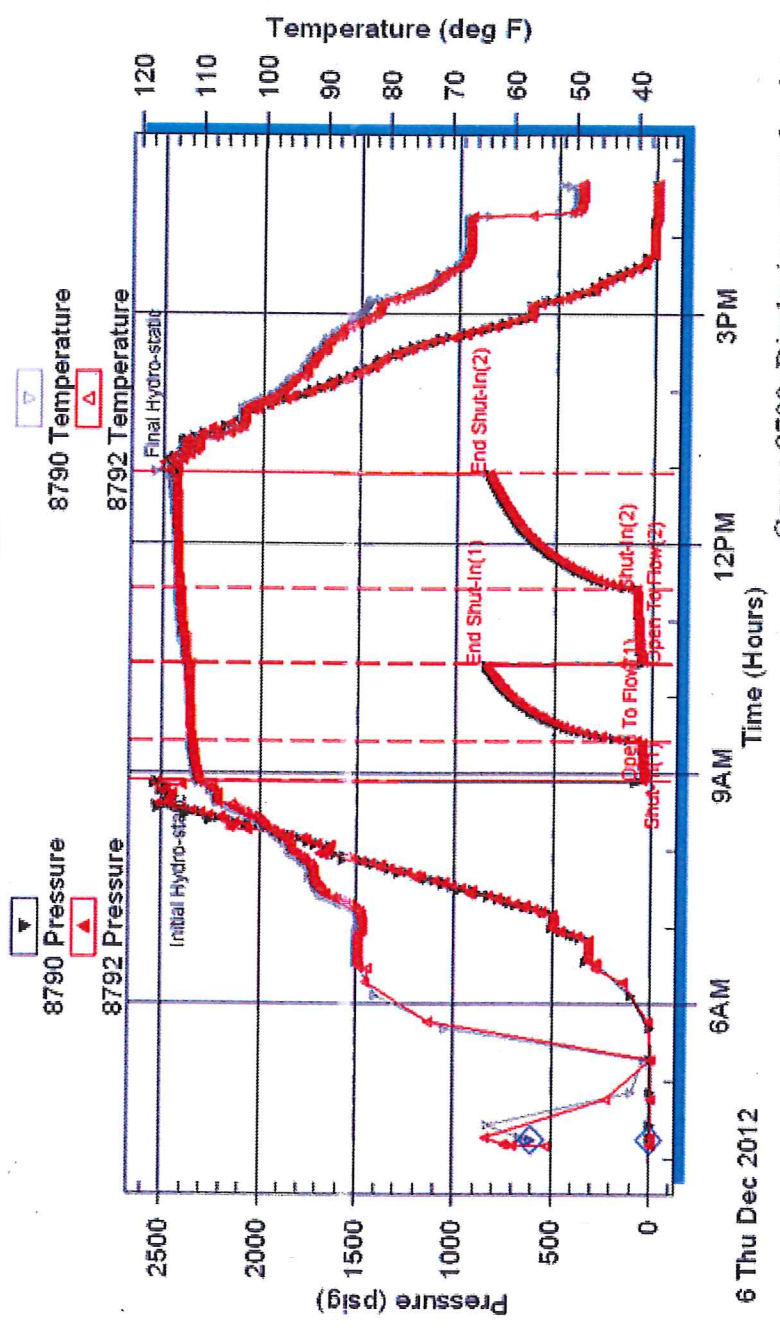


Gauge 8790: Displaying every 5 points.

Well Name & No.: Crowe #4-23 Company: Berexco LLC Test No.: 2 Interval Tested: 5100 - 5137
 Zone Tested: Mississippi Times: 30-60-60-90
 Blow Description: IFP: Strong blow. BOB 15 sec. GTS @ 28 min. ISL: No blow FFP: Strong blow BOB immed. Gauged gas throughout FSI: Weak surf. BB
 Rec: 45 Feet of SLI OCM 0% Gas Trc% Oil 99% Mud, 90 Feet of OWGM 20% Gas 13% Oil 17% Water 50% Mud, (Spots of free oil in hyd. Tool) Rec. Total: 135', BHI: 117 Gravity: N/C
 Initial Hydrostatic: 2530 First Initial Flow: 56 First Final Flow: 54 Initial Shut-In: 855
 Second Initial Flow: 52 Second Final Flow: 82 Final Shut-In: 844 Final Hydrostatic: 2441

12/06/2012 11:53, 2598-003

Pressure vs. Time



Gauge 8790: Displaying every 5 points.

Comments

CONTRACTOR:
BEREDCO RIG #2

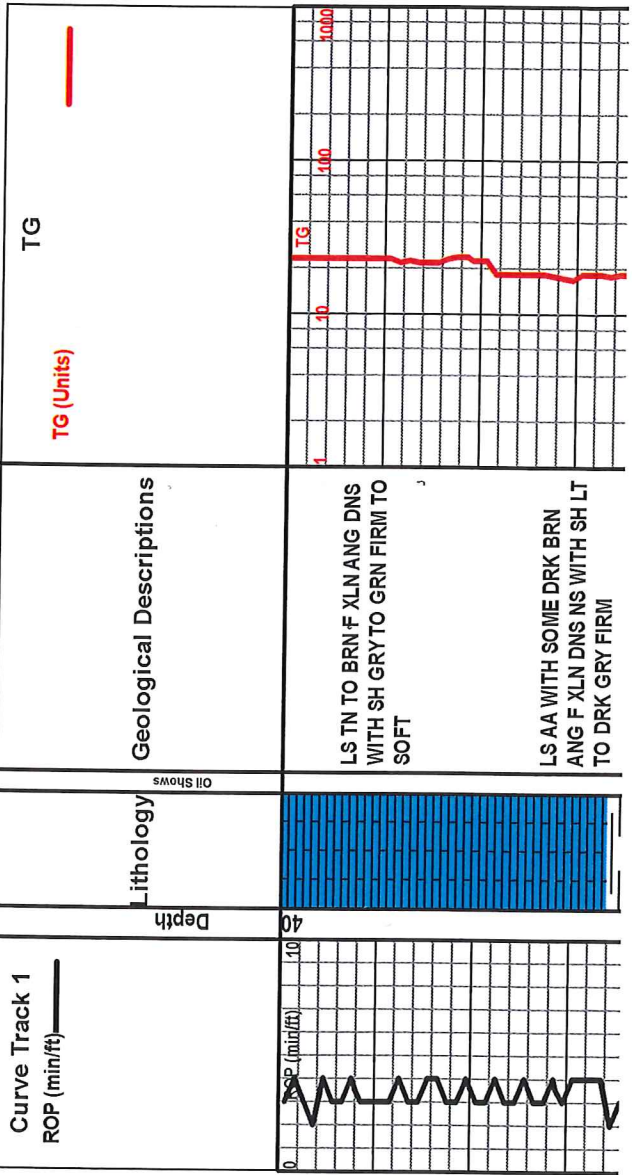
SURVEYS:
695' 1 DEGREE
1886' 1/4 DEGREE
2884' 3/4 DEGREE
5137' 3/4 DEGREE
5280' 1/4 DEGREE

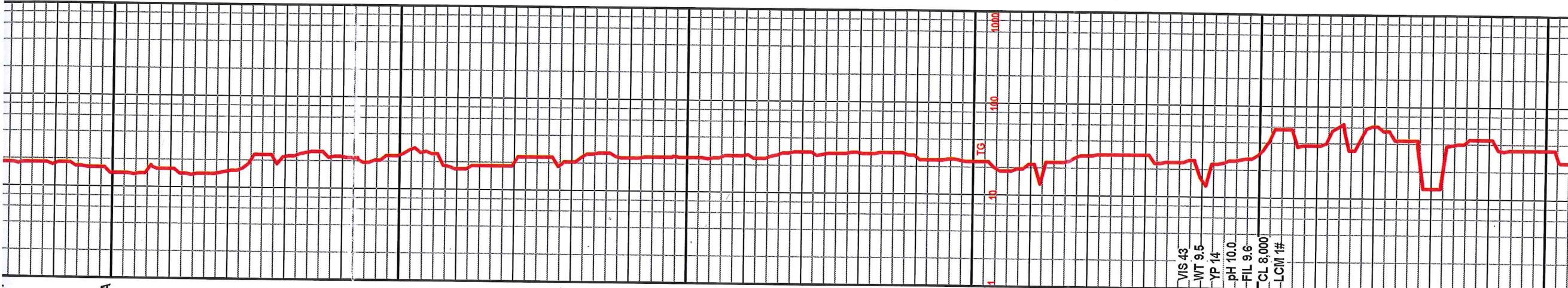
BIT RECORD:
#1 RR 12 1/4 0 - 695'
#2 SMITH F12Y 7 7/8 PT9949 695' - 2580'

DAILY STATUS: (6:00 AM)
11/25/2012 MOVE RIG IN, SPUD, DRILL 0-100'
11/26/2012 DRILL AHEAD TO 695', SET 8 5/8 CASING @ 681', WOC
11/27/2012 WOC, DRILL AHEAD TO 1570'
11/28/2012 2470', DRILL AHEAD
11/29/2012 2943', DRILL AHEAD
11/30/2012 3348', DRILL AHEAD
12/01/2012 3845', DRILL AHEAD
12/02/2012 4260', DRILL AHEAD
12/03/2012 4751', DRILL AHEAD
12/04/2012 SHORT TRIP FOR DST #1 @ 4965
12/05/2012 5045', DRILL AHEAD
12/06/2012 TRIP IN HOLE FOR DST #2 @ 5137'
12/07/2012 5137' RIG REPAIR (REPLACE ROTARY DRIVE BEARING)
12/08/2012 5280' LOGGING
12/09/2012 RUN PRODUCTION CASING

ROCK TYPES

<p>Anhy </p> <p>Bent </p> <p>Brec </p> <p>Cht </p>	<p>Clyst </p> <p>Coal </p> <p>Congl </p> <p>Dol </p>	<p>Gyp </p> <p>Igne </p> <p>Lmst </p> <p>Meta </p>	<p>Mrlst </p> <p>Salt </p> <p>Shale </p> <p>Shcol </p>	<p>Shgy </p> <p>Silst </p> <p>Ss </p> <p>Till </p>
--	--	--	--	--





TO DRK GRY FIRM

LS DRK BRN TO GRY ANG F XLN DNS TO V DNS WITH SH AA

LS TN ANG F XLN V DNS WITH INTERBEDDED PYRITE WITH SH DRK GRY TO GRN FIRM

LS CRM TO TN ANG F XLN DNS

LS AA WITH SH DRK GRY TO GRN FIRM WITH SS GRY SUB RD TO RD M GR SHALLY

LS CRM TO LT TN ANG F XLN DNS SOME SLIGHTLY CHAKLY WITH LS BRN TO DRK BRN ANG F XLN V DNS WITH SH GRY SILTY SOFT

LS & SH AA WITH SOME GRY SH WITH INTERBEDDED PYRITW

SH GRY TO DRK GRY FIRM WITH LS TN ANG F XLN DNS WITH SOME BEING CHAKLY

SH GRY TO DRK GRY SLIGHTLY SILTY FIRM

LS LT TN ANG F XLN DNS WITH SH GRY TO GRN SILTY

SH BLK CARB

LS TN TO LT TN ANG F XLN DNS

SH BLK CARB

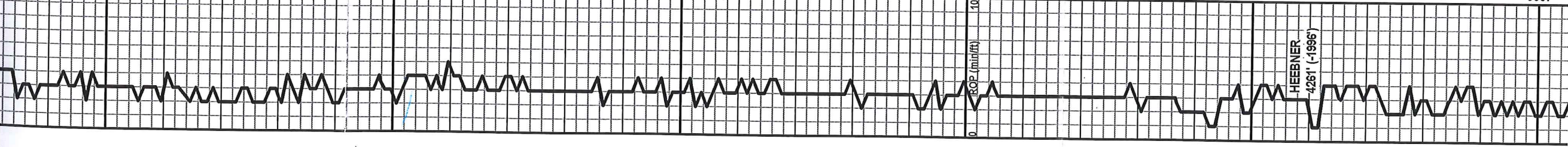
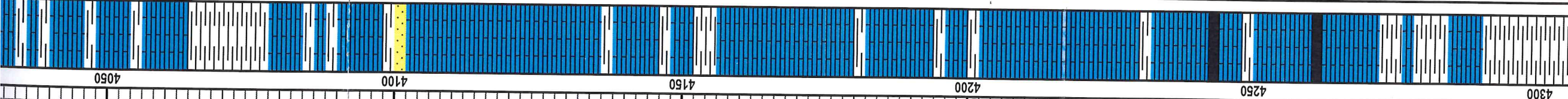
LS CRM TO TN ANG F XLN DNS NS

SH LT GRY TO GRN ANG FIRM

LS AA

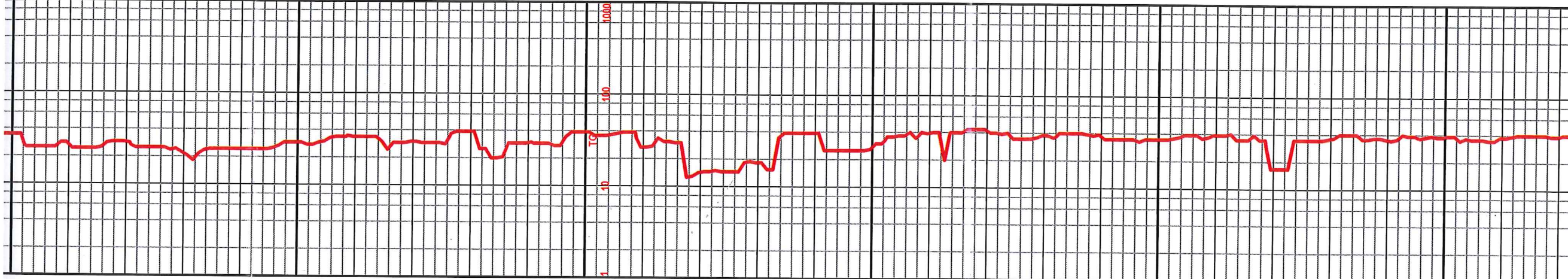
SH LT GRY TO GRN ANG FIRM

VIS 43
WT 9.5
YP 14
PH 10.0
FIL 9.6
CL 8,000
LCM 1#



HEEBNER
-4251' (-1996)

ROP (min/ft)



LS LT BRN ANG F XLN SLIGHTLY VUGGY DNS NS

SH GRY TO LT GRY ANG SILTY WITH SH GRN TO GRY FIRM

SH AA WITH SS LT GRY F TO VF GR SUB RD V TIGHT NS

SH GRY SILTY SOFT WITH SH GRY TO DRK GRY FIRM WITH LS LT GRY ANG F XLN DNS NS

SH AA

SH AA WITH SS GRY VF GR SUB RD SHALLY V TIGHT NS

SH GRY SILTY SOFT TO FIRM

LS BRN ANG HD VUGGY NS WITH LS CRM TO TN ANG F XLN DNS

LS CRM TO TN ANG DNS WITH INTERBEDDED PYRITE & GRY SH

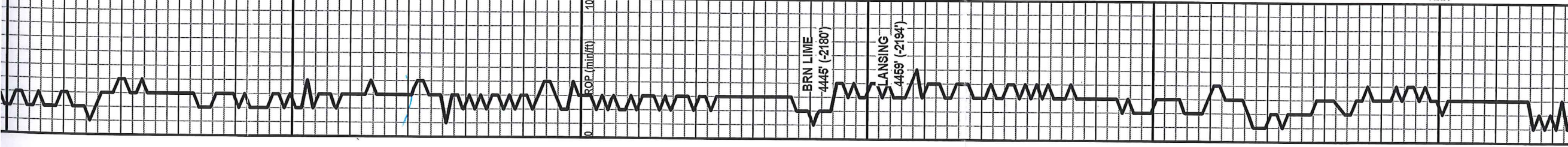
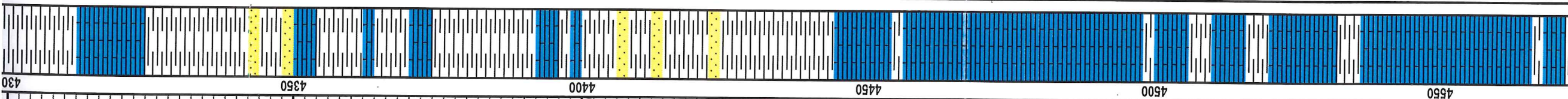
LS CRM TO TN TO BRN F-M XLN FOSS DNS NS

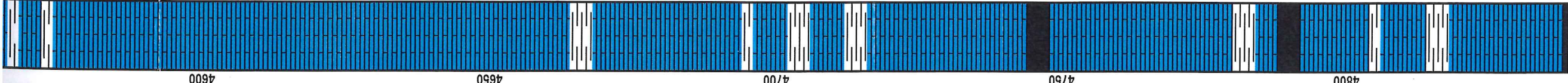
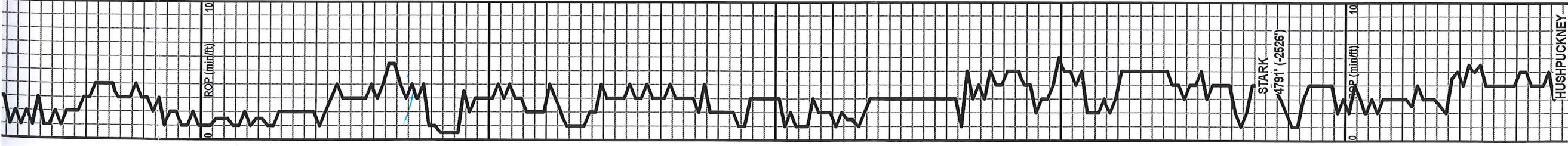
LS CRM TO TN ANG F XLN SLIGHTLY CHAKLY SOFT TO DNS NS

LS TN TO BRN F XLN ANG DNS WITH SH GRY ANG FIRM WITH TR PYRITE

LS TN TO BRN ANG F-M XLN DNS NS

LS CRM ANG F XLN CHAKLY SOFT WITH INTERBEDDED GRY SH





SOFT WITH INTERBEDDED GRV SH

LS CRM TO TN ANG F XLN VUGGY DNS WITH SOME SLIGHTLY CHAKLY

LS AA WITH TR CHERT WHT TO GRV SHARP V DNS

LS GRV TO DRK GRV ANG F XLN DNS TO V DNS

LS BRN ANG F XLN CHERTY DNS WITH SH GRV TO DRK GRV TO GRN FIRM

LS CRM TO TN ANG F XLN OOLIC NS

LS BRN TO TN ANG F XLN FOSS DNS WITH SH GRV TO DRK GRV TO GRN FIRM

SH LT GRV SILTY FIRM TO HD WITH SH GRV TO DRK GRV TO GRN FIRM WITH LS OFF WHT TO LT TN F XLN DNS SOME SLIGHTLY CHAKLY

LS OFF WHT AA

LS TN TO BRN ANG F XLN MOSTLY DNS SOME SLIGHTLY CHAKLY

SH BLK CARB

LS TN TO LT GRV ANG F XLN DNS SOME CHAKLY NS

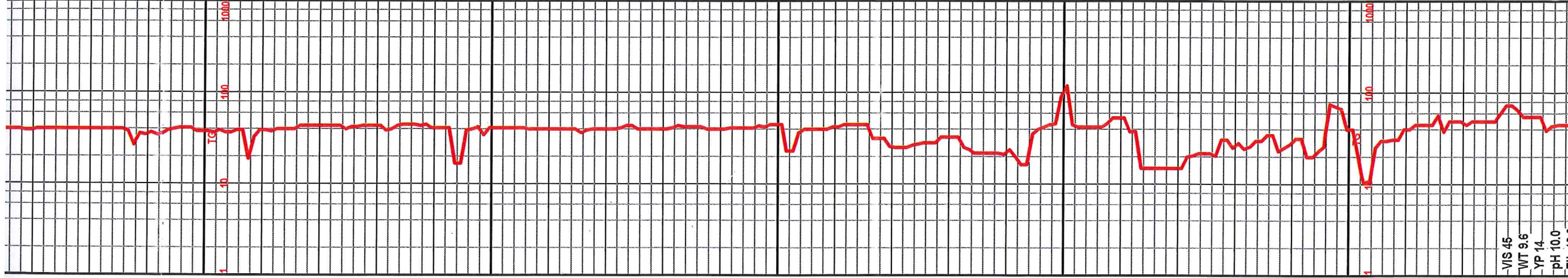
LS AA WITH SH LT TO DRK GRV SOFT TO FIRM

SH BLK CARB

LS TN TO LT BRN ANG F XLN DNS FOSS

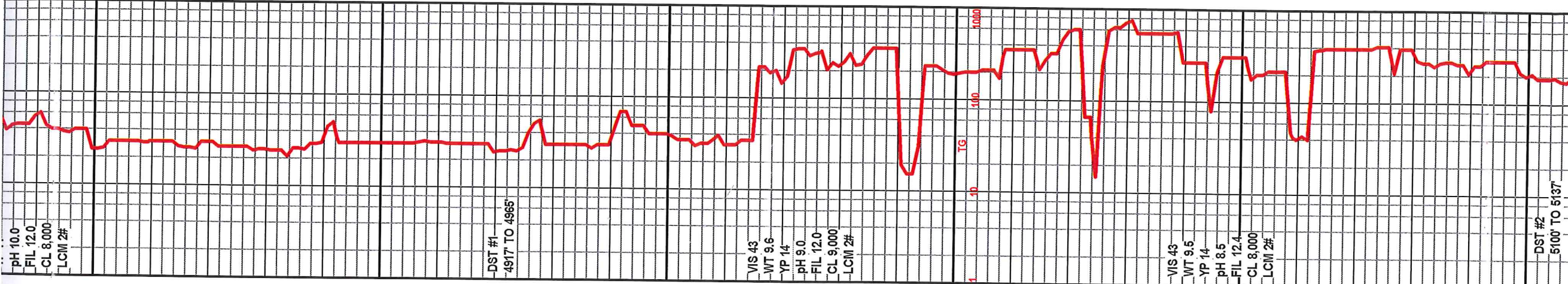
SH GRV TO LT GRV FIRM TO SOFT

LS BRN TO DRK BRN ANG F XLN V DNS



VIS 45
WT 9.6
YP 14
PH 10.0
EIL 45.5

HUSHPUCKNEY



PH 10.0
 FIL 12.0
 CL 8,000
 LCM 2#

SH BLK CARB

SH GRY FIRM

LS BRN TO DRK GRY ANG F
 XLN DNS NS

SH BLK CARB

LS TN TO CRM F XLN ANG
 SLIGHTLY CHAKLY WITH SOME
 BEING DNS NA

LS LT GRY ANG F XLN DNS

LS DRK BRN TO DRK GRY ANG
 F XLN DNS NS

DST #1
 4917' TO 4965'

SH BLK CARB

LS CRM TO TN F XLN ANG P-F
 INTER GR POR SLIGHT OIL
 STAIN P FLOR N CUT F ODOR

LS TN TO BRN F XLN DNS V
 SLIGHT OIL STAIN P FLOR NO
 TO POOR CUT SLIGHT ODOR N
 FREE OIL OR GAS BUBBLES

SH BLK CARB

S BRN TO DRK BRN ANG DNS
 NS WITH LS CRM TO TN TO
 OFF WHT F XLN CHAKLY

SH GRY TO RED TO BLK FIRM
 WITH LS TN F XLN ANG VUGGY
 DNS NS

SH BLK CARB

LS CRM TO TN ANG F XLN
 SLIGHTLY VUGGYNS

SH BLK CARB

LS CRM TO TN ANG F XLN DNS
 NS

LS CRM TO TN ANG F XLN
 MOSTLY DNS WITH INTER GR
 POR SLIGHT OIL STAIN G FLOR
 G MILKLY CUT N FREE OIL N
 GAS BUBBLES V G ODOR

SH BLK CARB

SH GRN TO GRY V SILTY SOFT

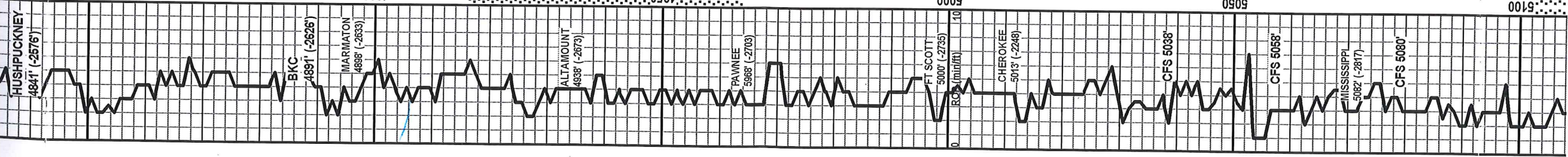
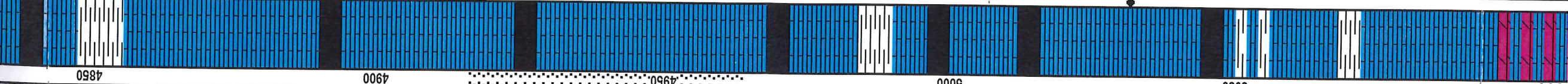
LS TN TO LT BRN ANG F XLN
 FOSS F INTER GR POR NS

SH GRY TO GRN FIRM

LS TN TO GRY ANG F XLN P
 POR DNS NS N FLOR N ODOR

LS/DOL OFF WHT TO CRM F
 XLN ANG F-P-POR P FLOR P
 CUT

DST #2
 5100' TO 5137'



HUSHPUCKNEY
 4841' (-2576')

BKC
 4891' (-2626')

MARMATON
 4898' (-2633)

ALTAMOUNT
 4938' (-2673)

PAWNEE
 5068' (-2703)

FT SCOTT
 5000' (-2735)

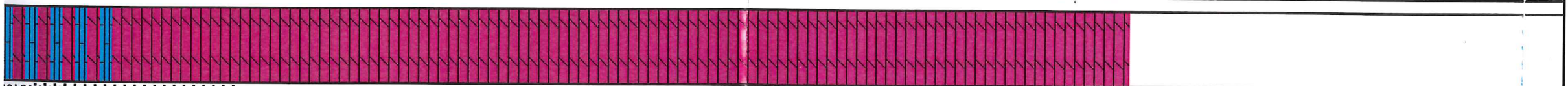
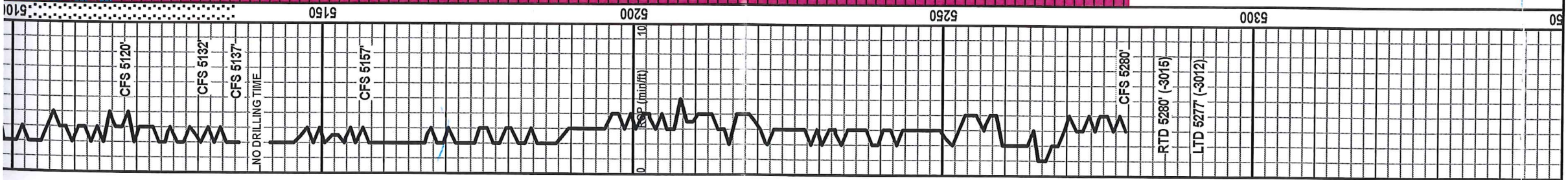
CHEROKEE
 5013' (-2248)

CFS 5038'

CFS 5058'

MISSISSIPPI
 5082' (-2817)

CFS 5080'



ALN ANG F-F POR F FLOR F CUT

LS/DOL CRM TO LT TN ANG F-M XLN F-G INTER GR POR G FLOR G CUT SLIGHT ODOR

DOL SLIGHTLY LIMY TN ANG F-M XLN F-G POR F SHOW OF FREE OIL G FLOR G CUT G ODOR

DOL TN SLIGHTLY LIMY ANG F-M XLN F-G POR G ODOR G OIL STAIN G FLOR MILKY CUT

DOL BRN TO GRY F-M XLN ANG DNS N FLOR N CUT SLIGHT ODOR NS

DOL TN TO GRY TO BRN F-M XLN MOSTLY DNS WITH SOME P POR NS

DOL TN TO LT GRY F-M XLN ANG DNS SLIGHTLY VUGGY NS

DOL AA WITH TR CHERT WHT TO GRY SHARP V DNS

DOL GRY F-M XLN ANG SOMEWHAT DNS WITH SOME F POR NS WITH CHERT WHT TO GRY SHARP V DNS

DOL CRM TO LT GRY F-M XLN MOSTLY DNS WITH SOME F-G POR SLIGHTLY VUSSY NS

DOL AA WITH DOL LT GRN F XLN DNS NS

DOL CRM TO GRN TO LT GRY F-M XLN DNS WITH CHERT CLEAR TO LT GRY SHARP V DNS NS

DOL TN ANG F-M EXLN SLIGHTLY LIMY F TO G INTER GR POR NS

DOL TN TO LT GRY F-M XLN ANG DNS NS

