



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1071407
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
-----------------------------------	-----------------	---

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: _____

1071407

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 09, 2012

Leon Rodak
Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-141-20439-00-00
Peterson 1-1
NE/4 Sec.01-08S-15W
Osborne County, Kansas

Dear Production Department:

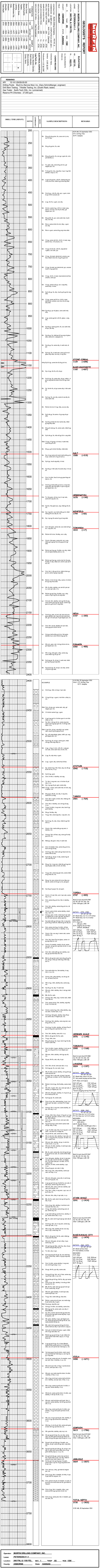
We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

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

Respectfully,
Leon Rodak

MDCI Peterson #1-1 840' FNL 1100' FEL Sec. 1-T8S-R15W 1827' KB	MDCI Thornburg #1-6 2310' FSL 1000' FEL Sec. 6-T8S-R14W 1854' KB
--	--

Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1129	+698	-34	1130	+697	-35	1122	+732
B/Anhydrite	1160	+667	-28	1160	+667	-28	1159	+695
Topeka	2747	-920	-1	2751	-924	-5	2773	-919
Heebner	2976	-1149	+2	2980	-1153	-2	3005	-1151
Toronto	2995	-1168	+4	3003	-1176	-4	3026	-1172
Lansing	3024	-1197	Flat	3027	-1200	3	3051	-1197
Stark	3241	-1414	+3	3245	-1418	-1	3271	-1417
BKC	3301	-1474	Flat	3304	-1477	-3	3328	-1474
Viola	3487	-1660	+74	3500	-1673	+61	3588	-1734
Simpson	3615	-1788	+11	3614	-1787	+12	3653	-1799
Arbuckle	3664	-1837	+13	3660	-1833	+17	3704	-1850
RTD	3730						3767	
LTD				3731			3767	



GEOLOGISTS' REPORT

OPERATOR: **MURFIN DRILLING COMPANY, INC.**
LEASE: **PETERSON # 1-1**
ELEVATIONS: **1822 FT.**

LOCATION: **840 FNL & 1100 FEL**
SEC: **1** TWP: **8S** RGE: **15W**
COUNTY: **OSBORNE** STATE: **KANSAS**

FIELD: **WILLCAT**
CONTRACTOR: **Murfin Drilling Company** R/O NO: **8**
COMMENCED: **22 SEP 2011** COMPLETED: **01 OCT 2011**
MUD: **DISPERSED 23885** MUD TYPE: **CHEMICAL**
DRILLING: **EMERGENCY** FROM: **220** TO: **3730**
SAMPLERS: **EMERGENCY** FROM: **220** TO: **3730**

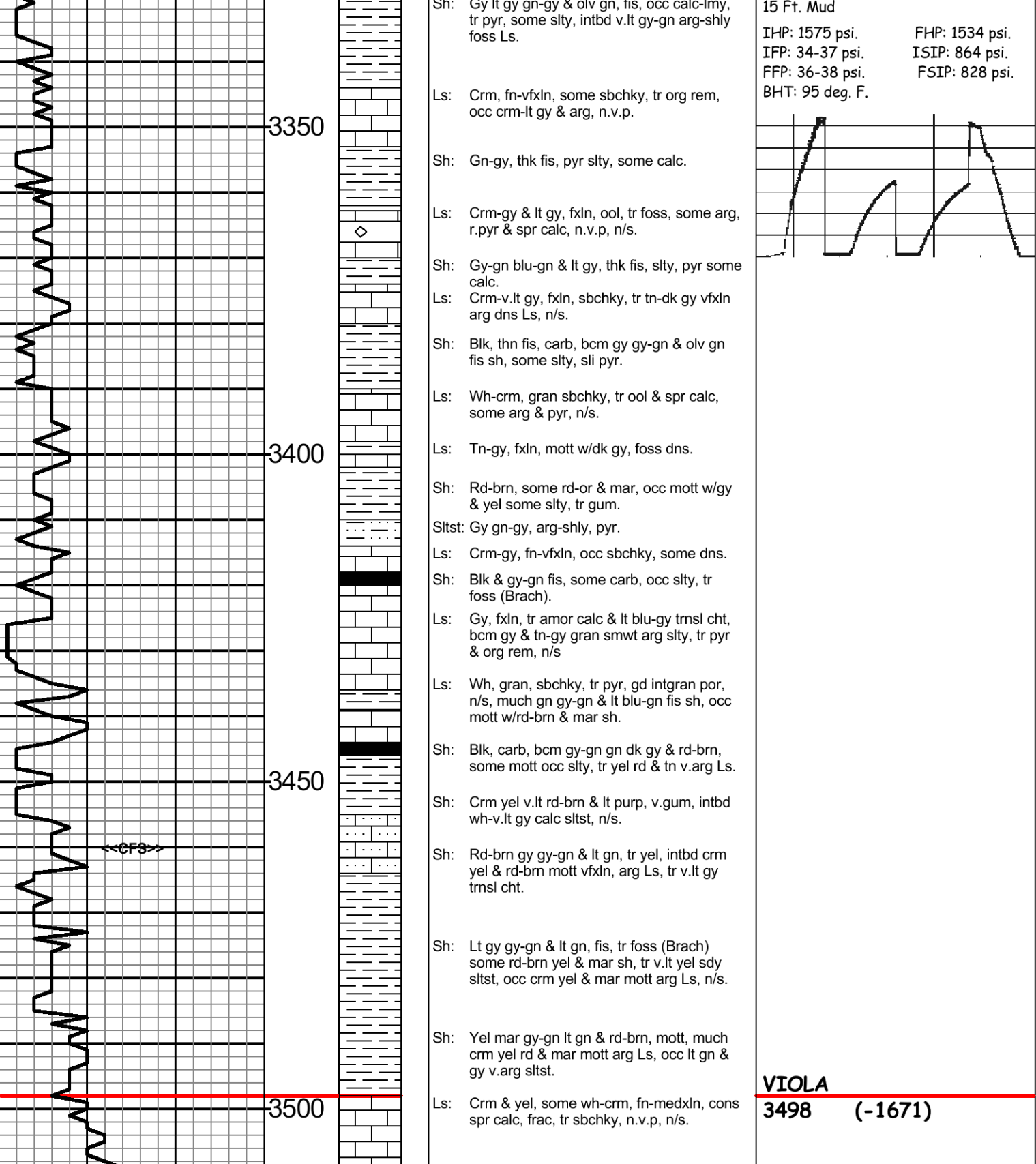
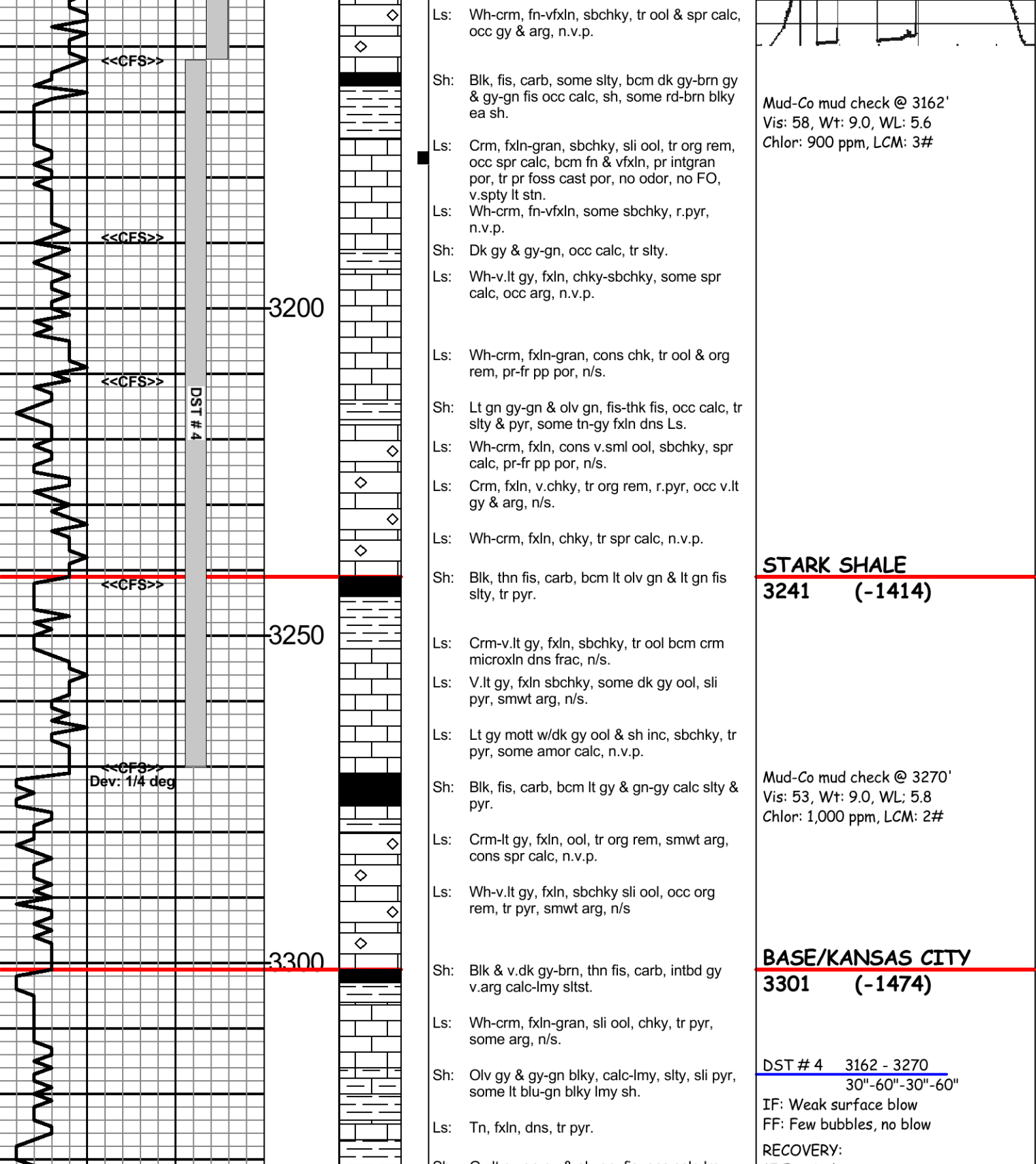
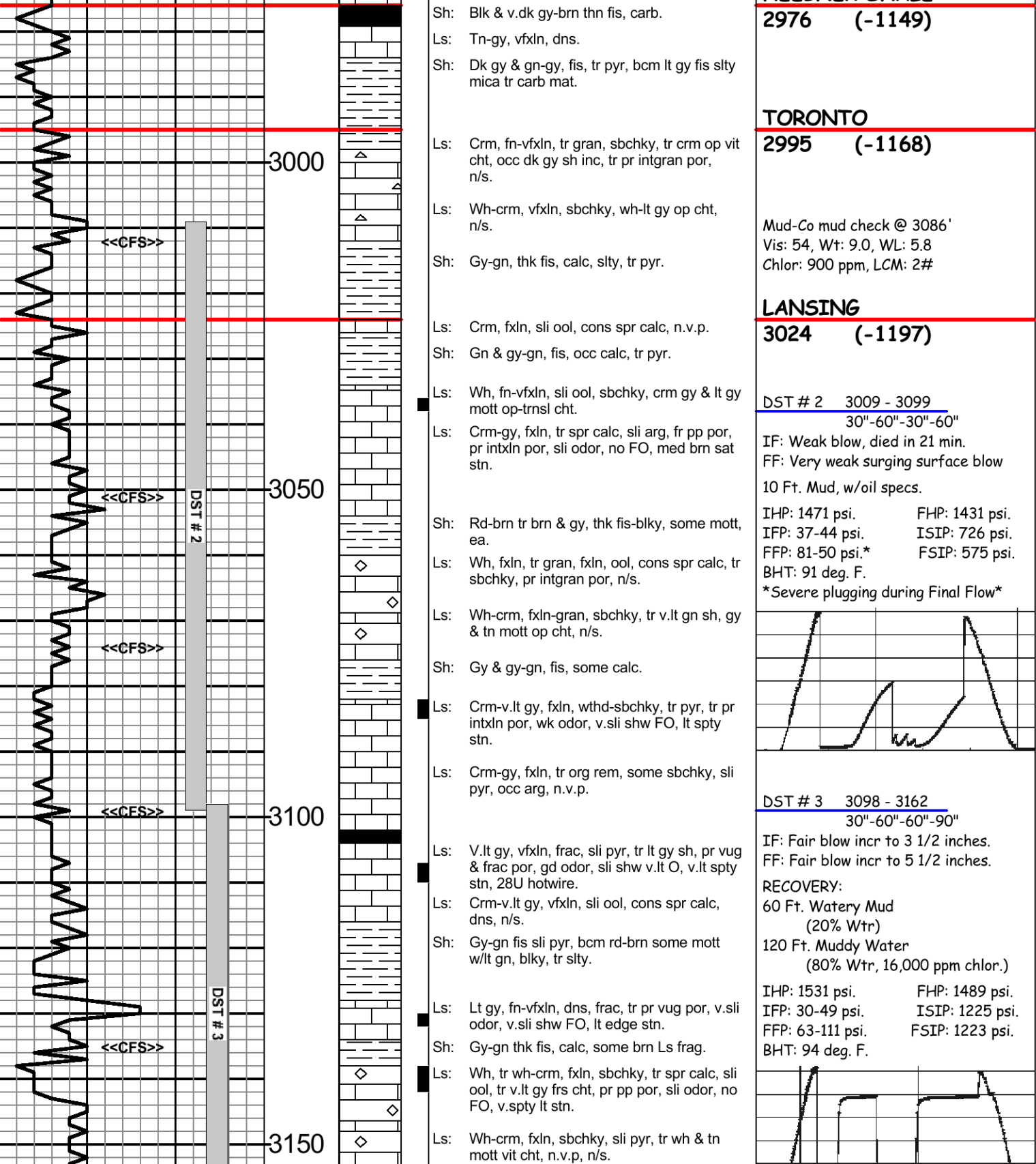
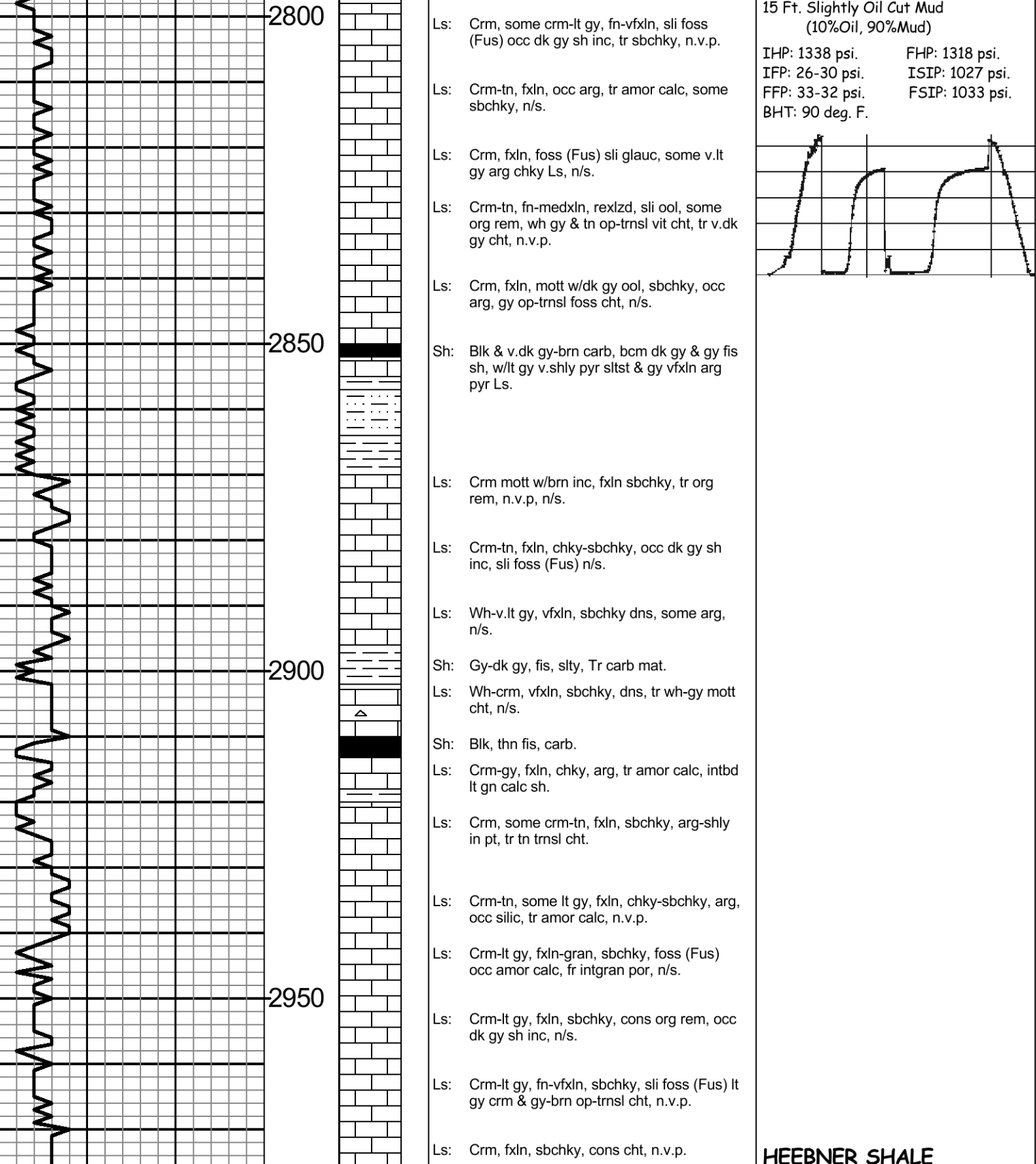
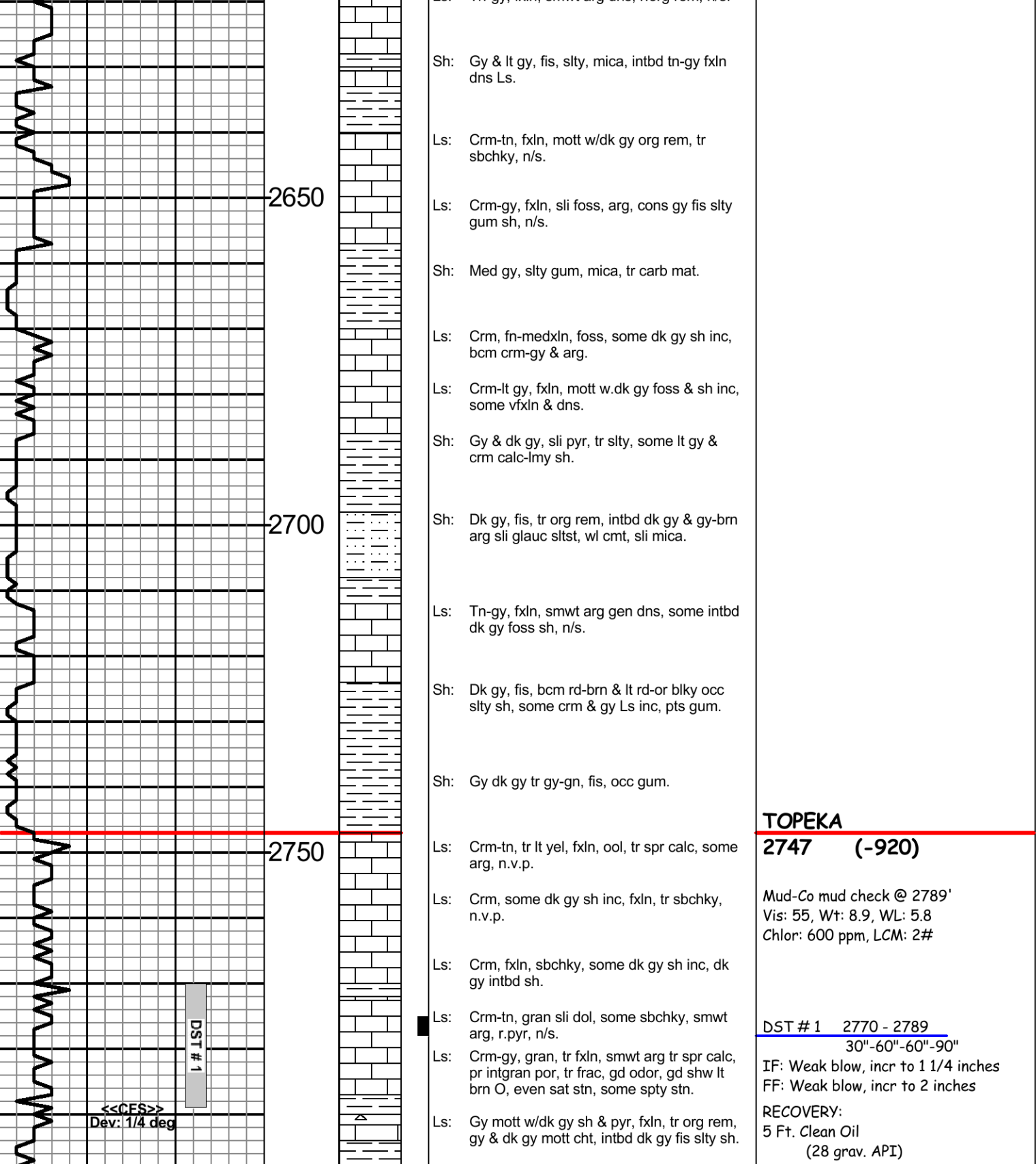
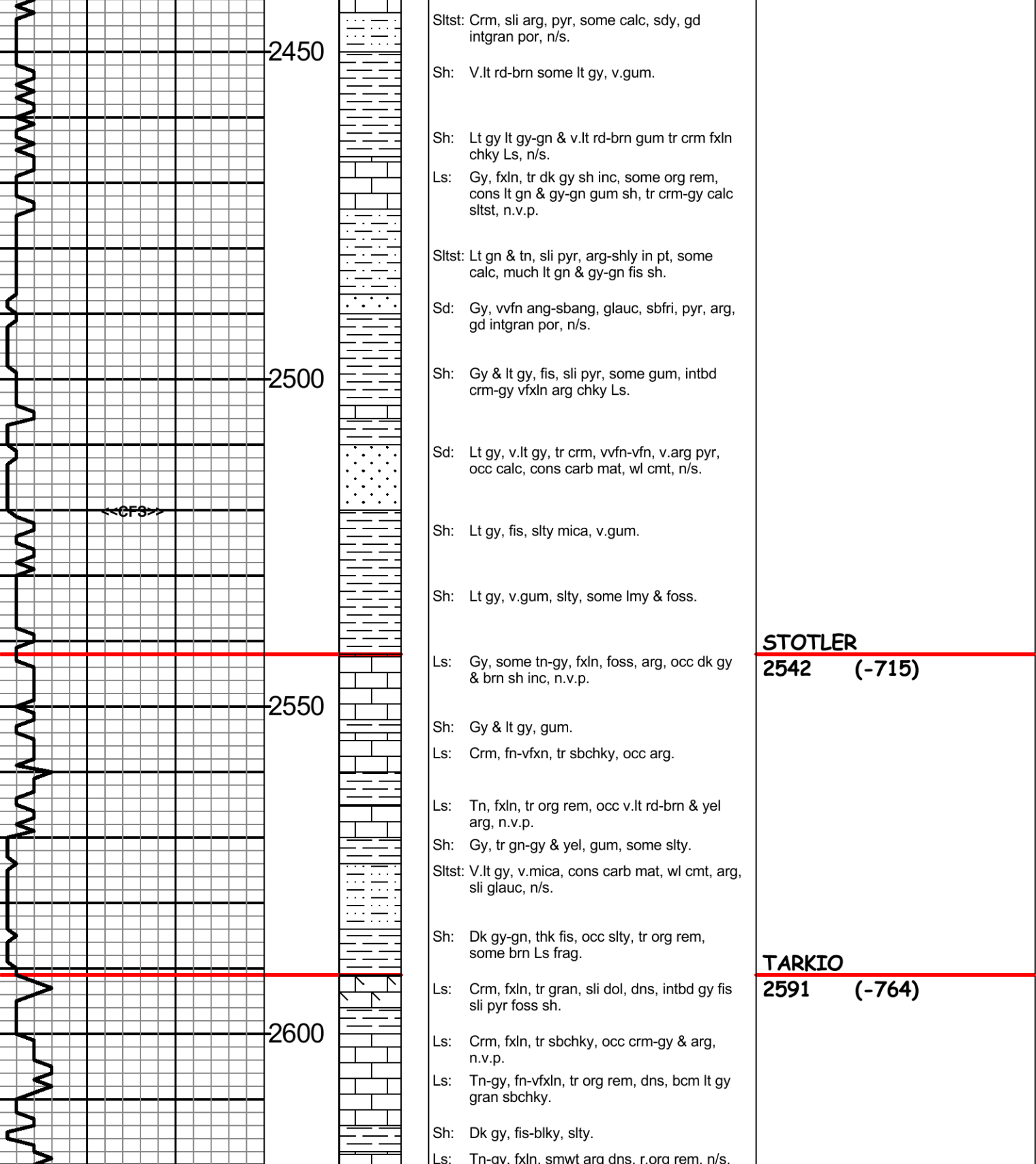
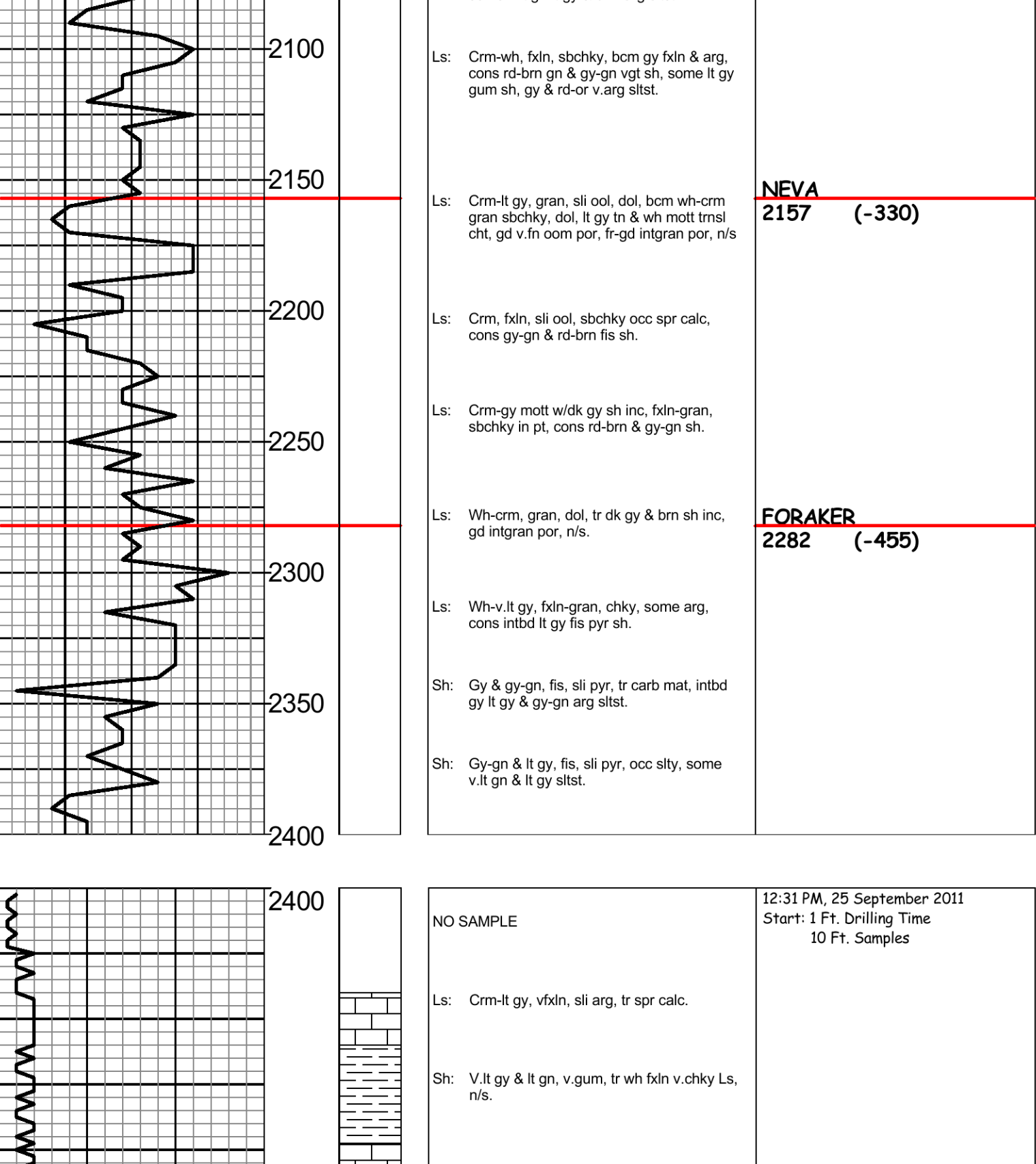
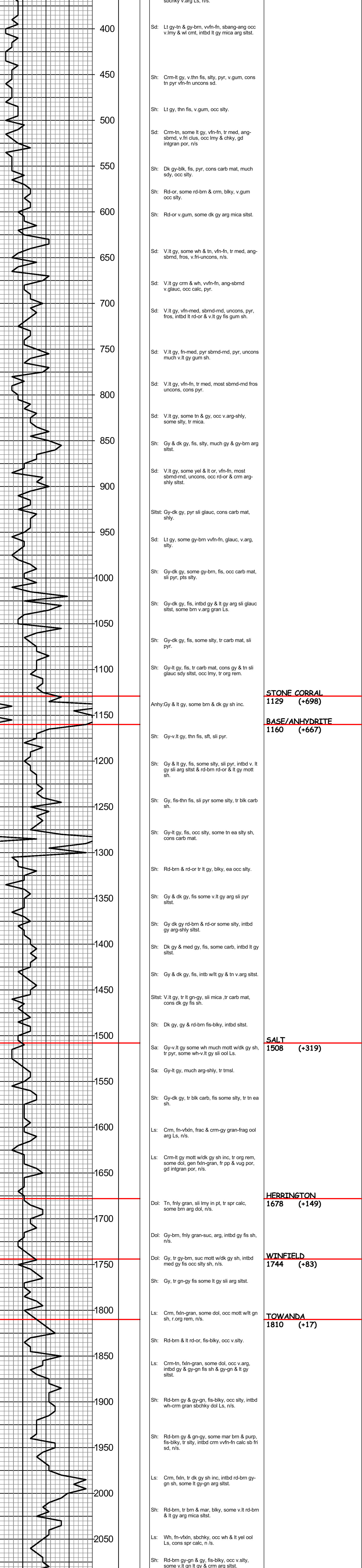
GEOLOGICAL SUPERVISION FROM: **655** TO: **3730**
GEOLOGIST ON WELL: **Faial Guizendman**

FORMATION NAME LOG TOP DATUM TOP SAMPLE
Simpson Corral 1180 +697 1180 +698
Bessemer Shale 1180 +697 1180 +697
Towanda 2751 -924 2747 -920
Heebner Shale 2980 -1153 2976 -1149
Lansing 3027 -1200 3024 -1197
Bessemer Shale 3304 -1477 3301 -1474
Village 3350 -1673 3487 -1680
Simmons 3614 -1787 3615 -1788
Auriferous 3660 -1883 3661 -1887
3731 -1904 3730 -1903

ELECTRICAL SURVEYS
Log-Tech, Inc.
Comp. Neutron Density
Dial Induction
Microresistivity
Comp. Sonic

REMARKS
APJ 15-141-20439-0000
Drilling Fluids: Mud-Co/Service Mud, Inc. (Gary Schmitzberger, engineer)
Drill Stem Testing: Trilobite Testing, Inc. (Dustin Rash, tester)
Gas Trailer: Earth-Tech OGL, Inc. (unmanned)
Reserve Pit Chlorides: 27,000 ppm.

DEPTH (MIN/FT)	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
----------------	-------	-----------	---------------------	---------



Operator: **MURFIN DRILLING COMPANY, INC.**
Lease: **PETERSON # 1-1**
Location: **840 FNL & 1100 FEL** SEC. **1** TWP: **8S** RGE: **15W**
County: **OSBORNE** State: **KANSAS**



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

1/8S/15W-Osborne

250 N. Water Ste. #300
Wichita, KS 67202

Peterson #1-1

Job Ticket: 45250

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2011.09.26 @ 05:59:15

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:54:35

Time Test Ended: 13:30:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 2770.00 ft (KB) To 2789.00 ft (KB) (TVD)

Reference Elevations: 1832.00 ft (KB)

Total Depth: 2789.00 ft (KB) (TVD)

1827.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 32.09 psig @ 2772.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.26 End Date: 2011.09.26

Last Calib.: 2011.09.26

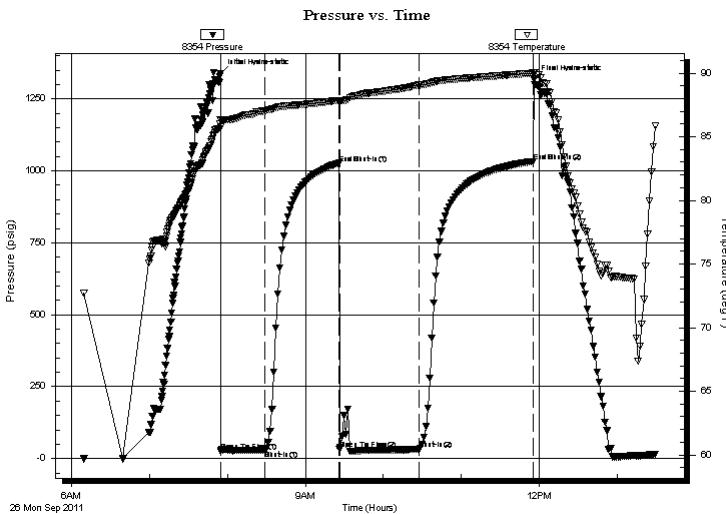
Start Time: 06:09:15 End Time: 13:30:15

Time On Btm: 2011.09.26 @ 07:54:25

Time Off Btm: 2011.09.26 @ 11:56:15

TEST COMMENT: IF-Weak building blow . Built to 1&1/4 inches.
ISI-No Return.
FF-Weak building blow . Built to 2 inches.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1337.52	86.32	Initial Hydro-static
1	25.85	85.74	Open To Flow (1)
35	29.52	87.05	Shut-In(1)
92	1026.70	87.86	End Shut-In(1)
92	33.49	87.70	Open To Flow (2)
153	32.09	89.06	Shut-In(2)
241	1032.72	90.00	End Shut-In(2)
242	1318.09	90.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	10%Oil/90%Mud	0.07
5.00	10%Gas/90%Oil	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

1/8S/15W-Osborne

250 N. Water Ste. #300
Wichita, KS 67202

Peterson #1-1

Job Ticket: 45250

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2011.09.26 @ 05:59:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	10%Oil/90%Mud	0.074
5.00	10%Gas/90%Oil	0.025

Total Length: 20.00 ft Total Volume: 0.099 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

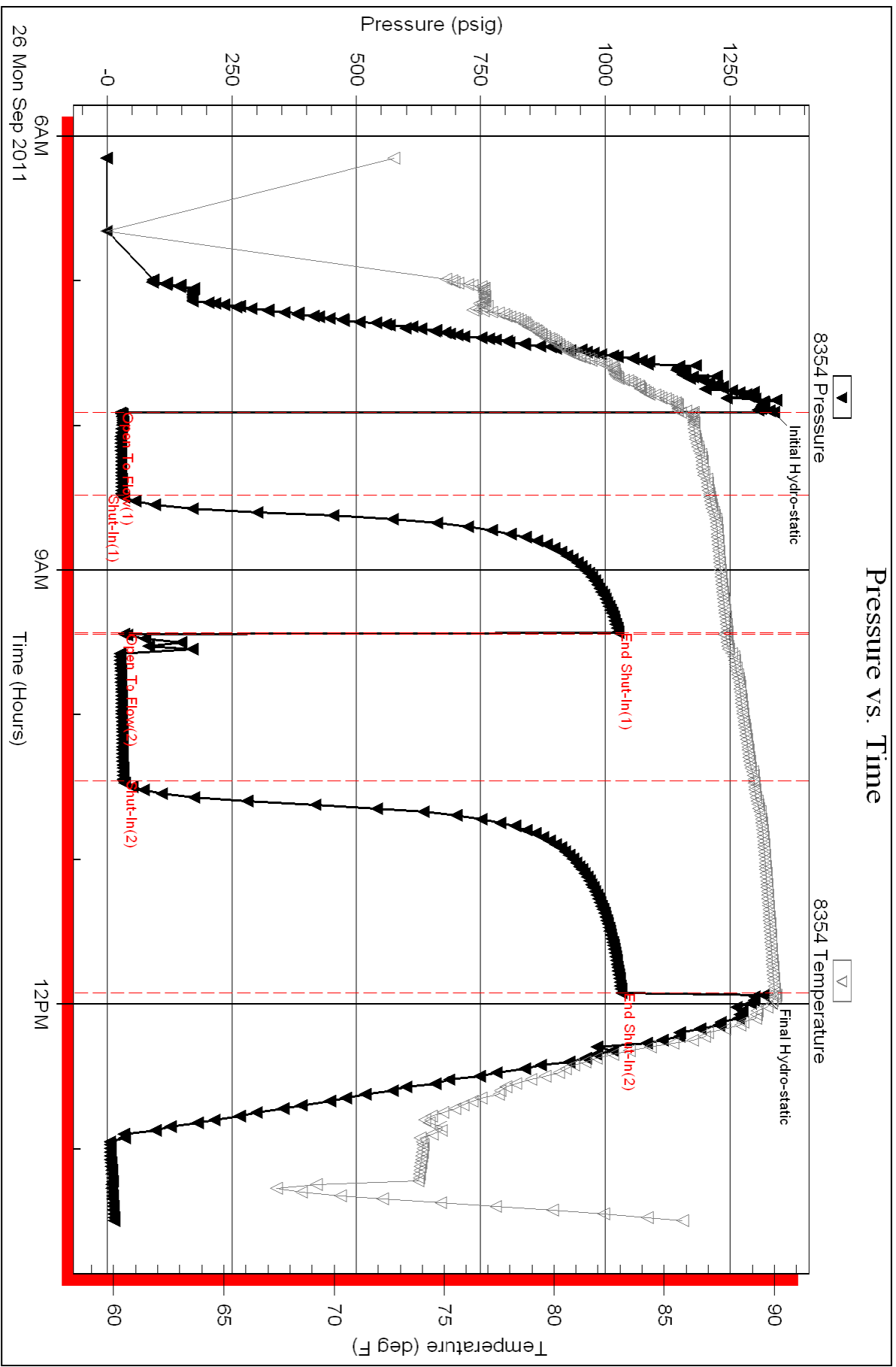
Serial #: 8354

Inside

Murfin Drilling Co., Inc.

Peterson #1-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45250

Printed: 2011.09.26 @ 14:05:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

1/8S/15W-Osborne

250 N. Water Ste. #300
Wichita, KS 67202

Peterson #1-1

Job Ticket: 45251

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2011.09.27 @ 12:10:30

GENERAL INFORMATION:

Formation: **LKC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:50:00

Time Test Ended: 18:27:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: ft (KB) To ft (KB) (TVD)

Reference Elevations: 1832.00 ft (KB)

Total Depth: 3099.00 ft (KB) (TVD)

1827.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 50.11 psig @ 3079.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.27 End Date: 2011.09.27

Last Calib.: 2011.09.27

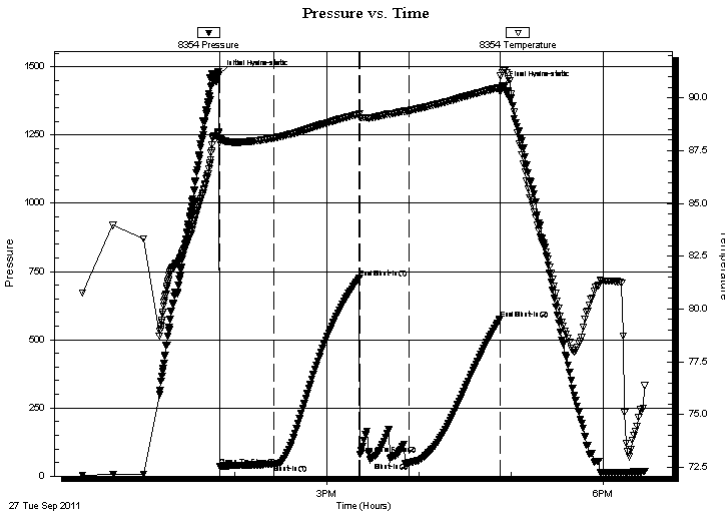
Start Time: 12:20:30 End Time: 18:27:30

Time On Btm: 2011.09.27 @ 13:49:40

Time Off Btm: 2011.09.27 @ 16:54:00

TEST COMMENT: IF-Weak surface blow . Died @ 21 minutes.
IS- No Return.
FF-Weak surging surface blow . Never died.
FS- No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1470.51	88.32	Initial Hydro-static
1	36.81	87.89	Open To Flow (1)
36	43.80	88.09	Shut-In(1)
92	725.89	89.24	End Shut-In(1)
92	81.23	89.06	Open To Flow (2)
124	50.11	89.40	Shut-In(2)
183	574.84	90.49	End Shut-In(2)
185	1431.06	91.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	1%Oil/99%Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

1/8S/15W-Osborne

250 N. Water Ste. #300
Wichita, KS 67202

Peterson #1-1

Job Ticket: 45251

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2011.09.27 @ 12:10:30

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	1%Oil/99%Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

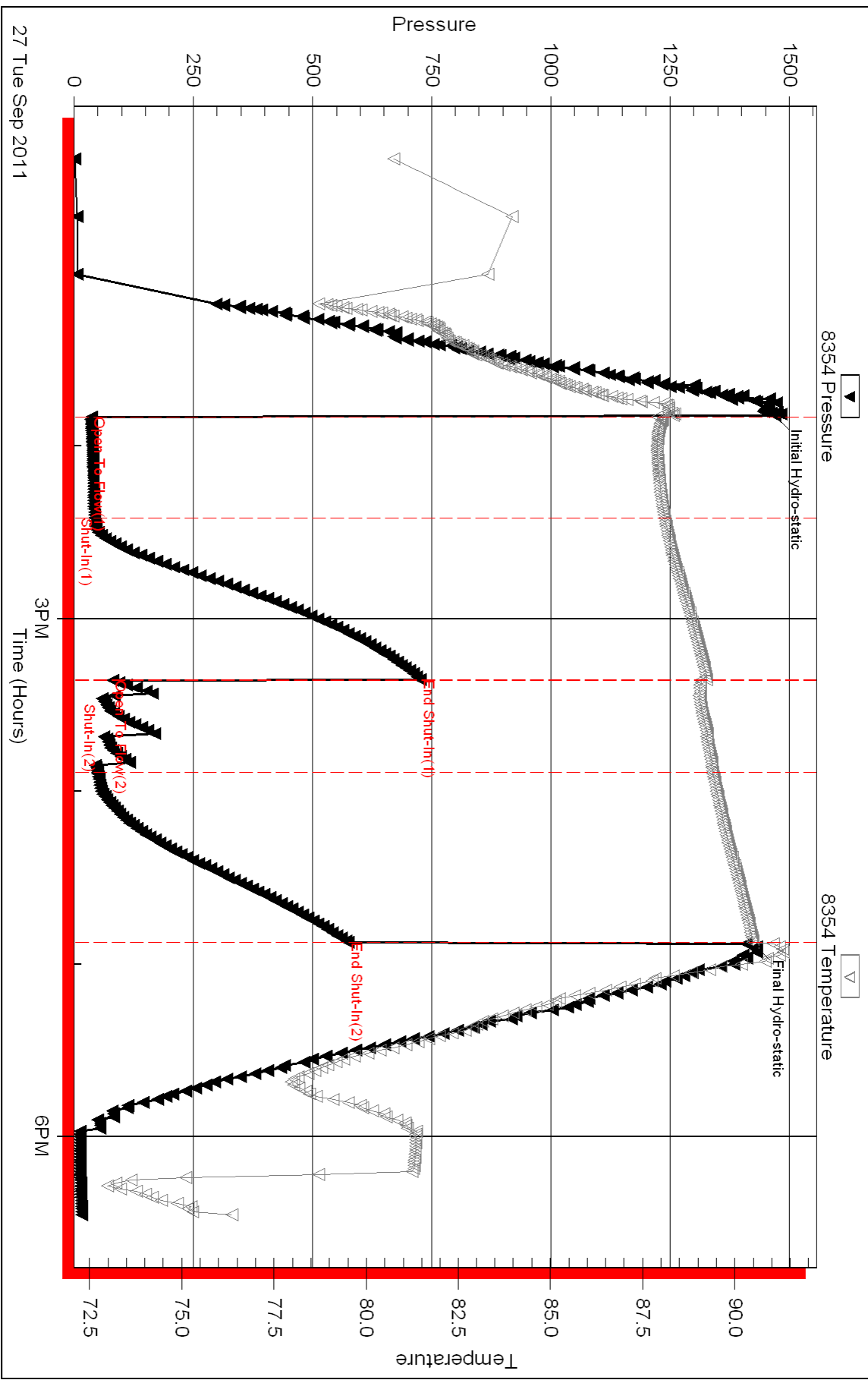
Inside

Murfin Drilling Co., Inc.

Peterson #1-1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45251

Printed: 2011.09.29 @ 11:23:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

1/8S/15W-Osborne

250 N. Water Ste. #300
Wichita, KS 67202

Peterson #1-1

Job Ticket: 45252

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2011.09.28 @ 04:34:15

GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:24:55

Time Test Ended: 12:15:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: ft (KB) To ft (KB) (TVD)

Reference Elevations: 1832.00 ft (KB)

Total Depth: 3162.00 ft (KB) (TVD)

1827.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 111.20 psig @ 3138.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.28

End Date:

2011.09.28

Last Calib.:

2011.09.28

Start Time: 04:44:16

End Time:

12:15:16

Time On Btm:

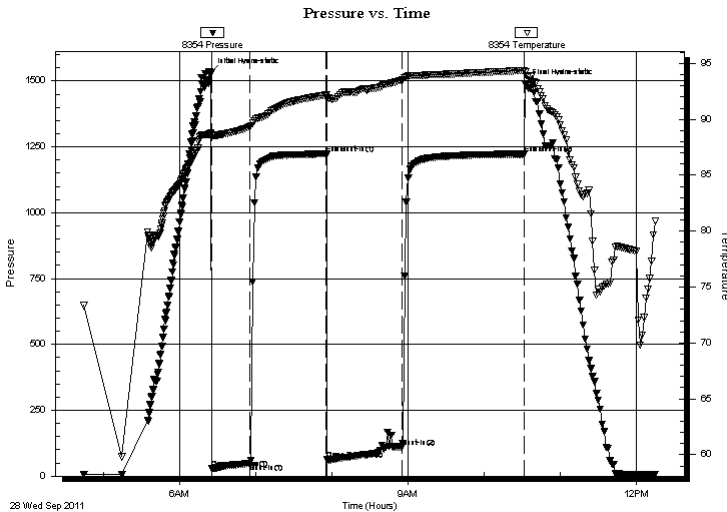
2011.09.28 @ 06:24:36

Time Off Btm:

2011.09.28 @ 10:32:46

TEST COMMENT: IF-Weak building blow . Built to 3&1/2 inches.
ISI-No Return.
FF-Weak building blow . Built to 5&1/2 inches.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.27	88.76	Initial Hydro-static
1	29.77	88.35	Open To Flow (1)
31	48.53	89.37	Shut-In(1)
91	1224.89	92.19	End Shut-In(1)
92	62.58	91.96	Open To Flow (2)
151	111.20	93.52	Shut-In(2)
248	1222.66	94.38	End Shut-In(2)
249	1489.18	94.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	80%Water/20%Mud	0.59
60.00	20%Water/80%Mud	0.31

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

1/8S/15W-Osborne

250 N. Water Ste. #300
Wichita, KS 67202

Peterson #1-1

Job Ticket: 45252

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2011.09.28 @ 04:34:15

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:

16000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: 0.35 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	80%Water/20%Mud	0.590
60.00	20%Water/80%Mud	0.313

Total Length: 180.00 ft

Total Volume: 0.903 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

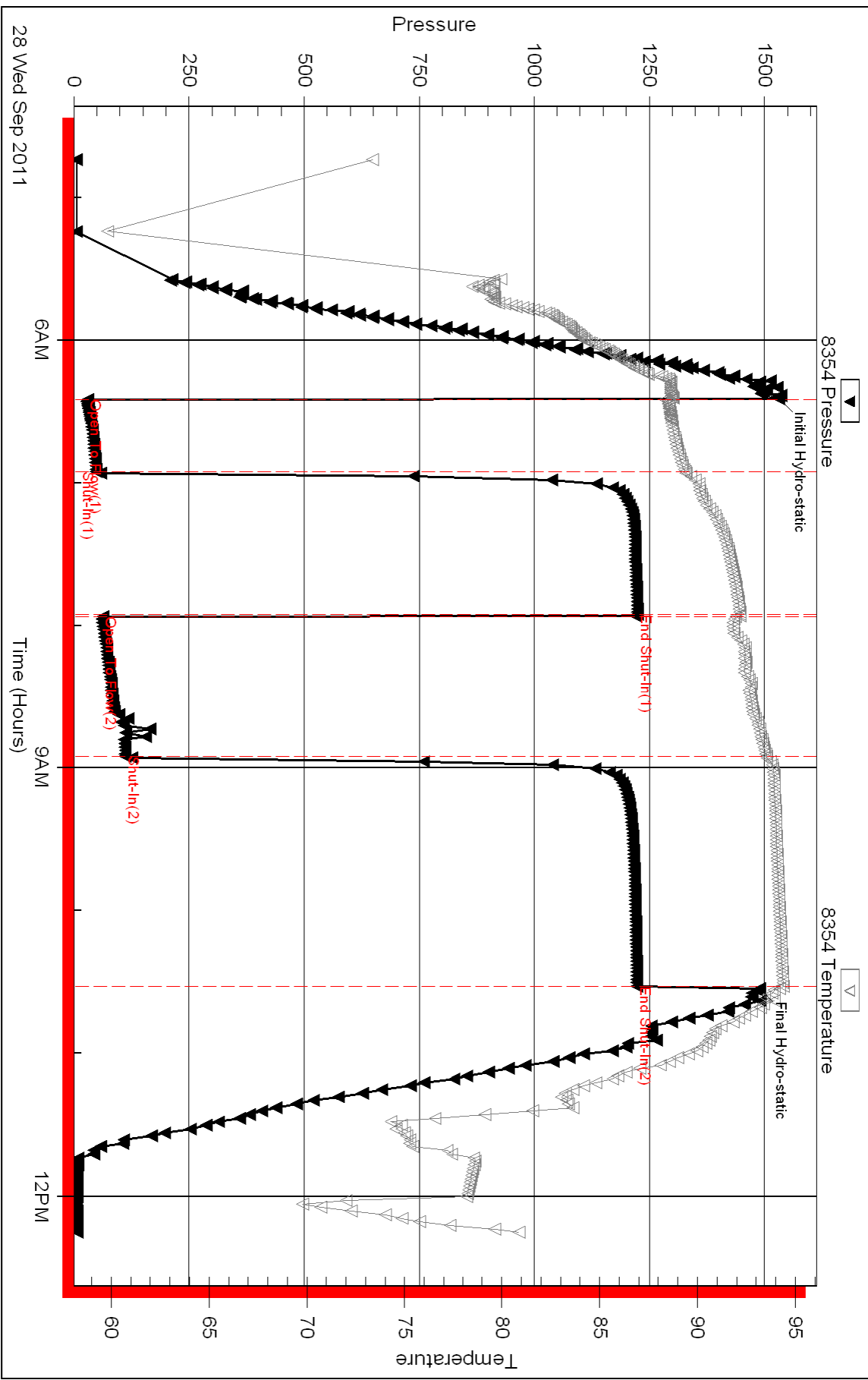
Inside

Murfin Drilling Co., Inc.

Peterson #1-1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45252

Printed: 2011.09.29 @ 11:23:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

1/8S/15W-Osborne

250 N. Water Ste. #300
Wichita, KS 67202

Peterson #1-1

Job Ticket: 45243

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2011.09.29 @ 01:57:10

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:40:20

Time Test Ended: 08:22:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: ft (KB) To ft (KB) (TVD)

Reference Elevations: 1832.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1827.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 37.85 psig @ 3263.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.29 End Date: 2011.09.29

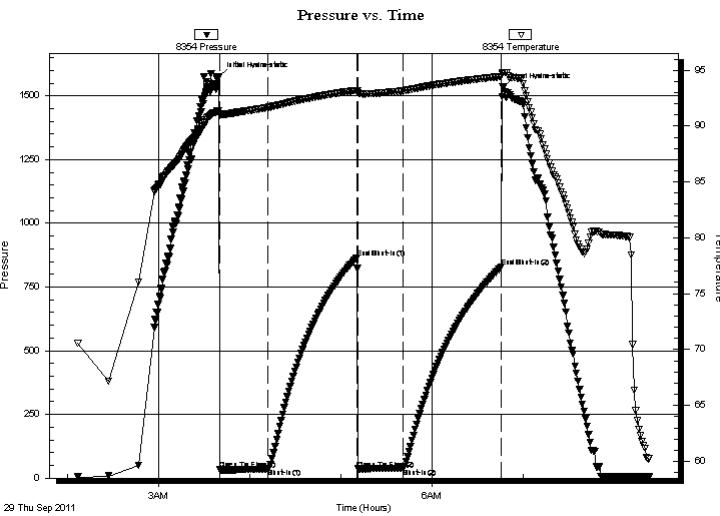
Last Calib.: 2011.09.29

Start Time: 02:07:10 End Time: 08:22:40

Time On Btm: 2011.09.29 @ 03:40:00

Time Off Btm: 2011.09.29 @ 06:46:10

TEST COMMENT: IF-Weak blow . Built to 1/2 inch. Died to surface.
 IS-No Return.
 FF-Few bubbles. Died @ 40 seconds.
 FS-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1574.97	91.36	Initial Hydro-static
1	34.32	90.99	Open To Flow (1)
33	36.52	91.66	Shut-In(1)
91	864.24	93.19	End Shut-In(1)
92	36.42	92.98	Open To Flow (2)
121	37.85	93.15	Shut-In(2)
186	827.75	94.43	End Shut-In(2)
187	1534.16	94.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%Mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

1/8S/15W-Osborne

250 N. Water Ste. #300
Wichita, KS 67202

Peterson #1-1

Job Ticket: 45243

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2011.09.29 @ 01:57:10

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	100%Mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

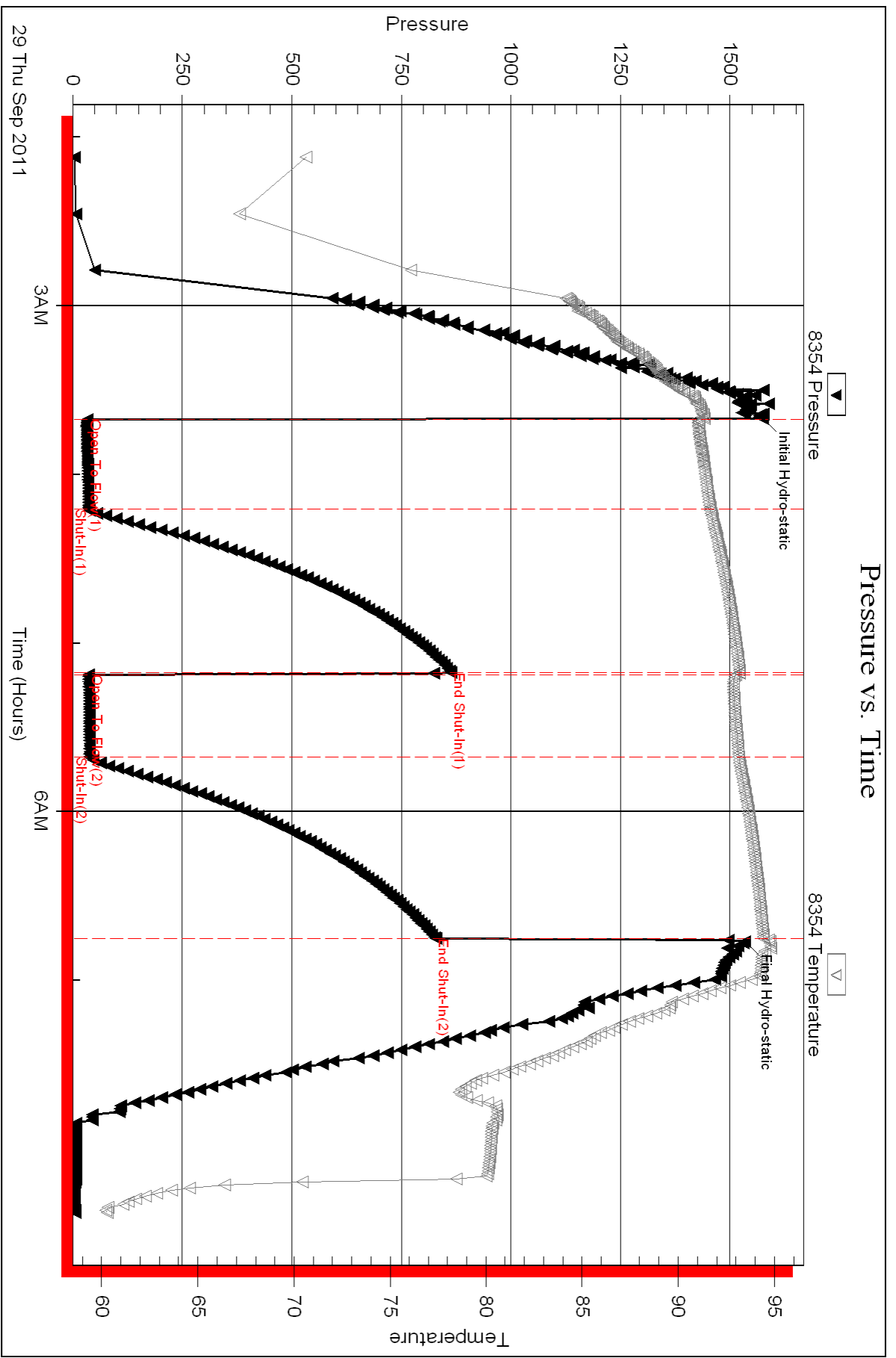
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Accty - CC: W.P. CC: L.P. Scan 6/12



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 9/26/2011
 Invoice # 5205
 P.O.#:
 Due Date: 10/26/2011
 Division: Russell

Invoice

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

USED FOR ID 103
 APPROVED [Signature]

Reference:
 PETERSON 1-1

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	150	\$ 1,986.86	Yes				
Pump Truck Mileage-Job to Nearest Camp	39	\$ 422.58	No				
Bulk Truck Matl-Material Service Charge	158	\$ 343.09	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	39	\$ 247.28	No				
Calcium Chloride	5	\$ 204.44	Yes				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

Invoice Terms:
 Net 30

SubTotal:	\$	4,248.66
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(637.30)
<hr/>		
SubTotal for Taxable Items:	\$	1,907.67
SubTotal for Non-Taxable Items:	\$	1,703.69
<hr/>		
Total:	\$	3,611.36
Tax:	\$	148.80
<hr/>		

7.80% Osborne County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,760.16
Applied Payments:
Balance Due: \$ 3,760.16

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5205

Date	9/22/11	Sec.	1	Twp.	8	Range	15	County	Oshorne	State	KS	On Location		Finish	11:55 PM
Lease	Peterson		Well No.	1-1		Location: Natoma, N to 388 Rd, 2E, 1 3/4 N, W into									
Contractor	Munson Drilling Rg #8							Owner							
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4"		T.D.	221'		Charge To									
Csg.	8 5/8" 23#		Depth	221'		Munson Drilling Co., Inc.									
Tbg. Size			Depth			Street									
Tool			Depth			City									
Cement Left in Csg.	15'		Shoe Joint			State									
Meas Line			Displace	13 Bbls.		The above was done to satisfaction and supervision of owner agent or contractor.									
						Cement Amount Ordered 150 sy Com 3% CC 2% gel									

EQUIPMENT

Pumptrk	9	No.	Cementer	Paul	Common	130
			Helper			
Bulktrk	8	No.	Driver	Matt	Poz. Mix	
			Driver			
Bulktrk	AU	No.	Driver	Doug	Gel.	3
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Est. Circ.	Sand
Mix 150 sy	Handling 158
Displace	Mileage
Cement Circulated	

FLOAT EQUIPMENT

Guide Shoe	8 5/8"
Centralizer	
Baskets	Swage
AFU Inserts	
Float Shoe	
Latch Down	

Thank You!!

Pumptrk Charge	Surface	Tax	
Mileage	39	Discount	
		Total Charge	

X Signature *James L. [Signature]*



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 10/25/2011
 Invoice # 1

P.O.#:

Due Date: 11/24/2011

Division: *Russell*

Invoice

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

USED FOR IC 103
 APPROVED AK

Reference:
 PETERSON 1-1

Description of Work:
 PORT COLLAR

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
non, MetsoBeads, Plater, Gel, FloSeal, Calcium)	200	\$ 4,036.44	Yes				
Bulk Truck Matl-Material Service Charge	200	\$ 422.22	No				
Pump Truck Mileage-Job to Nearest Camp	39	\$ 410.84	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	39	\$ 240.41	No				
Flo Seal	50	\$ 105.56	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 6,179.33

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (926.90)

SubTotal for Taxable Items: \$ 3,520.70

SubTotal for Non-Taxable Items: \$ 1,731.73

Total: \$ 5,252.43

7.80% Osborne County Sales Tax

Tax: \$ 274.61

Amount Due: \$ 5,527.04

Applied Payments:

Balance Due: \$ 5,527.04

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 001

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-21-11				Osborne	Ks		11:00 AM
Lease <i>Peterson</i>	Well No. <i>1-1</i>		Location <i>Natoma N to 388 Rd</i>				
Contractor <i>Co Tools</i>				Owner <i>2E to 140 Rd 1 1/2 N Winsto</i>			
Type Job <i>port collar</i>				To Quality Oilwell Cementing, Inc.			
Hole Size				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. <i>4k</i>				Charge To <i>Murfin Dily</i>			
Tbg. Size				Street			
Tool <i>1150</i>				City State			
Cement Left in Csg.				Shoe Joint			
Meas Line				Displace			
				The above was done to satisfaction and supervision of owner agent or contractor.			
				Cement Amount Ordered <i>200 QMBC-1/4 Flow</i>			
EQUIPMENT							
Pumptrk <i>5</i>	No.	Cementer Helper	<i>Dave</i>		Common <i>200 QMBC</i>		
Bulktrk <i>10</i>	No.	Driver	<i>Brian</i>		Poz. Mix		
Bulktrk	No.	Driver			Gel.		
JOB SERVICES & REMARKS							
Remarks:				Calcium			
Rat Hole				Hulls			
Mouse Hole				Salt			
Centralizers				Flowseal <i>50#</i>			
Baskets				Kol-Seal			
D/V or Port Collar				Mud CLR 48			
<i>Cir hole w/c 48 BBL</i>				CFL-117 or CD110 CAF 38			
<i>Came up to port collar</i>				Sand			
<i>preccured tubing & casing @ 1000 PSI</i>				Handling			
<i>opened tool Esti</i>				Mileage			
<i>Cir. Mixed 20 etc</i>				FLOAT EQUIPMENT			
<i>& Cir to surface</i>				Guide Shoe			
<i>Row 5 closed</i>				Centralizer			
<i>tool rechecked @ 1000 PSI</i>				Baskets			
<i>Row 5 1/2 + Cir Clean</i>				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge <i>port collar</i>			
				Mileage <i>39</i>			
<i>Thanks</i>				Tax			
X Signature <i>[Signature]</i>				Discount			
				Total Charge			

Accty —

cc: up
cc: Page 1
Scan 1/2



QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

Date: 10/5/2011
Invoice # 5176

P.O.#:
Due Date: 11/4/2011
Division: Russell

Invoice

Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

USED FOR IC 103
APPROVED [Signature]

Reference:
PETERSON -1-1

Description of Work:
PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 937.80	No	Auto Fill Float Shoe, 4 1/2"	1	\$283.46	Yes
Common-Class A	300	\$ 3,758.92	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	39	\$233.92	No
Cement Port Collar, 4 1/2"	1	\$ 2,454.59	Yes	Latch Down Plug & Baffle, 4 1/2"	1	\$201.30	Yes
Gilsonite	1500	\$ 2,310.81	Yes				
Bulk Truck Matl-Material Service Charge	341	\$ 700.43	No				
Cement Scratchers Cable Type, 4 1/2"	8	\$ 575.14	Yes				
4 1/2" Turbolizer	12	\$ 566.92	Yes				
4 1/2" Basket	2	\$ 431.35	Yes				
Mud Clear	500	\$ 380.00	Yes				
Salt (Fine)	26	\$ 372.77	Yes				
Pump Truck Mileage-Job to Nearest Camp	39	\$ 399.74	No				

Invoice Terms:

Net 30

SubTotal: \$ 13,607.14
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (2,041.07)

SubTotal for Taxable Items:	\$ 9,634.97
SubTotal for Non-Taxable Items:	\$ 1,931.10
Total:	\$ 11,566.07
Tax:	\$ 751.53

7.80% Osborne County Sales Tax

Thank You For Your Business!

Amount Due: \$ 12,317.60
Applied Payments:
Balance Due: \$ 12,317.60

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5176

Date	10-1-11	Sec.	1	Twp.	8	Range	15	County	Osborne	State	Ks	On Location		Finish	9:00 AM
Lease	Peterson			Well No.	1-1			Location Watoma Ks - E to 657 Rd, 11 N to 388 Rd							
Contractor	Murfin #8							Owner 2E to 240 Rd, 1/2 N, W/2							
Type Job	Production							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8"			T.D.	3730'			Charge To Murfin Drilling							
Csg.	4 1/2" 10.50 #			Depth	3358'			Street							
Tbg. Size				Depth				City							
Tool	Port Collar			Depth	1152'			State							
Cement Left in Csg.	20, 10'			Shoe Joint	20, 10'			The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	53 BLS			Cement Amount Ordered 300 sq Common 10% Salt, 5% Gilsomite, 500 gal mud clear 48							
EQUIPMENT															
Pumptrk	1	No.	Cement	Cisco			Common			300					
Bulktrk	10	No.	Driver	Brian S.			Poz. Mix								
Bulktrk	2, u.	No.	Driver	Rick			Gel.								
JOB SERVICES & REMARKS															
Remarks:													Hulls		
Rat Hole	30 SX												Salt 26		
Mouse Hole													Flowseal 57		
Centralizers	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23												Kol-Seal 1500 #		
Baskets	2, 56												Mud CLR 48 500 gal		
D/V or Port Collar	# 56 - 1152'												CFL-117 or CD110 CAF 38		
pipe on bottom, break Circulation pump 500 gal Mud Clear 48 plug Reubhole, mix Cement down 4 1/2" casing, shut down, Released plug & wash pump & lines. Displaced with 53 BLS of water.													Sand		
Lift pressure 500 # land plug to 1600 # Released & held													Handling 341		
													Mileage		
													FLOAT EQUIPMENT		
													Guide Shoe		
													Centralizer 12 turbo's		
													Baskets 2		
													AFU Inserts		
													Float Shoe 1		
													Latch Down 1		
													8-Recip. Scratchers		
													1 port collar		
													Pumptrk Charge procl lany string		
													Mileage 39		
													Tax		
													Discount		
													Total Charge		
Signature <i>Mark Robler</i>															