



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1140162
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: _____



1140162

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Pahls 1-28
Doc ID	1140162

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Pahls 1-28
Doc ID	1140162

Tops

Name	Top	Datum
Base Anhydrite	2335	+576
Heebner	3745	-834
Lansing	3795	-884
Muncie Creek	3949	-1038
Stark Shale	4042	-1131
Hushpuckney	4080	-1169
Pawnee	4249	-1338
Cherokee Shale	4340	-1429
Johnson	4385	-1474
Morrow Shale	4446	-1535
Morrow SS	4483	-1572
Mississippian	4497	-1586

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 135823

Invoice Date: Apr 20, 2013

Page: 1

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Now Includes:

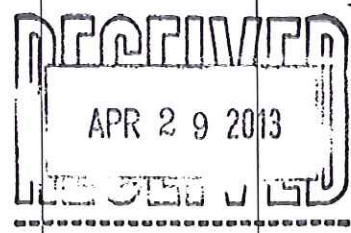


Customer ID	Field Ticket #	Payment Terms	
Shak	60159	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 20, 2013	5/20/13

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Pahls #1-28		
		Class A Common	17.90	2,953.50
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
178.42	SER	Cubic Feet	2.48	442.48
244.26	SER	Ton Mileage	2.60	635.08
1.00	SER	Surface ✓	1,512.25	1,512.25
30.00	SER	Pump Truck Mileage	7.70	231.00
1.00	SER	Manifold Rental	275.00	275.00
30.00	SER	Light Vehicle Mileage	4.40	132.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	David Scariano		

INT

Surface Cement
10502-5



ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1,725.23

ONLY IF PAID ON OR BEFORE
May 15, 2013

Subtotal	6,635.51
Sales Tax	265.80
Total Invoice Amount	6,901.31
Payment/Credit Applied	
TOTAL	6,901.31

DW

ALLIED OIL & GAS SERVICES, LLC

060159

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Call Log 16
4/12/13

DATE <i>4/12/13</i>	SEC. <i>28</i>	TWP. <i>13</i>	RANGE <i>34</i>	CALLED OUT	ON LOCATION	JOB START <i>7:00 AM</i>	JOB FINISH <i>3:30 PM</i>
LEASE <i>Pahls</i>	WELL.# <i>1-28</i>	LOCATION <i>Russell Springs 3 1/2 E Sinto</i>			COUNTY <i>Logan</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)				<i>Plan # 2 - 310 Rd - Sinto</i>			

CONTRACTOR *H.O. #1*

TYPE OF JOB *Surface*

HOLE SIZE *6 1/4"* T.D. *225'*

CASING SIZE *8 5/8"* DEPTH *225'*

TUBING SIZE DEPTH

DRILL PIPE *1 1/2"* DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13-37*

EQUIPMENT

OWNER *Same*

CEMENT AMOUNT ORDBRED *165 loms 390 cc*

270 gal

PUMP TRUCK CEMENTER *Alan Ryan*

422 HELPER *Wayne McLaughly*

BULK TRUCK DRIVER *David Scariano*

396

BULK TRUCK DRIVER

COMMON	<i>165</i>	@ <i>17.00</i>	<i>2953.50</i>
POZMIX		@	
GEL	<i>3</i>	@ <i>23.42</i>	<i>70.26</i>
CHLORIDE	<i>6</i>	@ <i>64.00</i>	<i>384.00</i>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>178.112</i>	@ <i>2.40</i>	<i>442.48</i>
MILEAGE	<i>267.70</i>	@ <i>8.112</i>	<i>2172.00</i>
			TOTAL <i>4485.26</i>

REMARKS:

On log circulation, mix cement, displace cement

Shut in

Cement did circulate

Thank you

Alan, Wayne, David

CHARGE TO: *Shelley*

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB	<i>225'</i>		
PUMP TRUCK CHARGE			<i>1512.25</i>
EXTRA FOOTAGE		@	
MILEAGE	<i>30</i>	@ <i>7.22</i>	<i>216.60</i>
MANIFOLD		@	<i>275.00</i>
<i>cr vehicle</i>	<i>30</i>	@ <i>4.40</i>	<i>132.00</i>
		@	
			TOTAL <i>2150.25</i>

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
			TOTAL

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.

PRINTED NAME *Ryan P. Miller*

SIGNATURE *Ryan P. Miller*

SALES TAX (If Any)

TOTAL CHARGES *6,635.51*

DISCOUNT *1,725.23* IF PAID IN 30 DAYS

4,910.27 Net.

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 136028
Invoice Date: May 2, 2013
Page: 1

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Shak	60283	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	May 2, 2013	6/1/13

Quantity	Item	Description	Unit Price	Amount
		Pahls #1-28		
123.00	MAT	Class A Common	17.90	2,201.70
82.00	MAT	Pozmix	9.35	766.70
7.00	MAT	Gel	23.40	163.80
51.00	MAT	Flo Seal	2.97	151.47
220.15	SER	Cubic Feet	2.48	545.97
275.70	SER	Ton Mileage	2.60	716.82
1.00	SER	<u>Plug to Abandon</u>	2,483.59	2,483.59
30.00	SER	Pump Truck Mileage	7.70	231.00
30.00	SER	Light Vehicle Mileage	4.40	132.00
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

INT

10502-17

RECEIVED

MAY 13 2013

DW

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1,950.17

ONLY IF PAID ON OR BEFORE
May 27, 2013

Subtotal	7,500.69
Sales Tax	585.05
Total Invoice Amount	8,085.74
Payment/Credit Applied	
TOTAL	8,085.74

ALLIED OIL & GAS SERVICES, LLC 060283

Federal Tax I.D. # 20-8661475

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

SERVICE POINT

Oakley

DATE <u>5/2/13</u>	SEC. <u>28</u>	TWP. <u>13</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30 Pm</u>	JOB FINISH <u>7:30 Pm</u>
LEASE <u>Pahls</u>	WELL # <u>1-28</u>	LOCATION <u>Russell Springs 3/4 E To Rd</u>			COUNTY <u>Logan</u>	STATE <u>Ks.</u>	
OLD OR <u>NEW</u> (Circle one)		<u>310 - Sinto</u>					

CONTRACTOR HD #2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4580'

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 2345'

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 29.73

EQUIPMENT

OWNER Same

CEMENT

AMOUNT ORDERED 205 SKs 60/40 4% Gel

1/4" Floseal

COMMON 123 SKs @ \$17.90 \$2201.70

POZMIX 82 SKs @ \$9.35 \$766.70

GEL 7 SKs @ \$23.40 \$163.80

CHLORIDE @

ASC @

Floseal 51" @ \$2.22 \$151.42

@

@

@

@

@

HANDLING 220.15 G.F.X @ \$2.98 \$654.92

MILEAGE 9.19 X 30 X @ \$2.60 \$716.82

TOTAL 4546.46

PUMP TRUCK CEMENTER Darren Raquette

120 HELPER Tyler Flipse

BULK TRUCK

566-595 DRIVER Brandon Wilkinson

BULK TRUCK

DRIVER ~~Shane~~

REMARKS:

mix 25 sks Cement 2345'

mix 100 sks Cement 1300'

mix 40 sks Cement 275'

mix 10 sks Cement 40'

Plug Rathole 30 SKs Cement

Thank You.

CHARGE TO: Shakespeare Oil & Gas

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 2345'

PUMP TRUCK CHARGE \$2483.58

EXTRA FOOTAGE @

MILEAGE 30 @ \$7.70 \$231.00

MANIFOLD @

LU mileage @ \$4.40 \$132.00

@

TOTAL \$2846.58

PLUG & FLOAT EQUIPMENT

1 Wooden Plug @ \$107.62

@

@

@

TOTAL \$107.62

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.

PRINTED NAME Richard D. Rucka

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES 7,000.69

DISCOUNT 1,950.17 IF PAID IN 30 DAYS

5,550.51 Net.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc
202 W Main Street
Salem, IL 62881
ATTN: Tim Priest

28 13s 34w Logan, Ks

Pahls # 1-28

Job Ticket: 49173

DST#: 1

Test Start: 2013.04.26 @ 14:39:00

GENERAL INFORMATION:

Formation: **LKC - I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:10:00

Time Test Ended: 21:24:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4006.00 ft (KB) To 4020.00 ft (KB) (TVD)

Reference Elevations: 2911.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

2901.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 34.24 psig @ 4007.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.26

End Date:

2013.04.26

Last Calib.:

2013.04.26

Start Time: 14:39:05

End Time:

21:24:14

Time On Btm:

2013.04.26 @ 17:09:45

Time Off Btm:

2013.04.26 @ 19:15:30

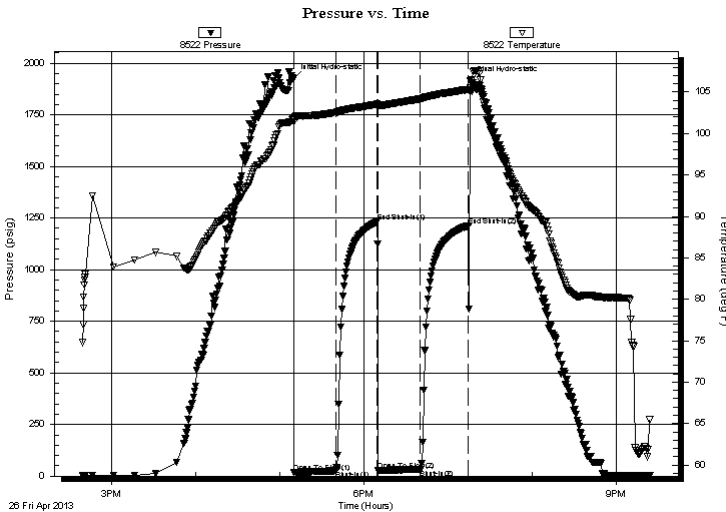
TEST COMMENT: IF: Surface blow, died @ 25 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.53	101.78	Initial Hydro-static
1	18.93	101.39	Open To Flow (1)
30	25.80	102.53	Shut-In(1)
60	1231.45	103.53	End Shut-In(1)
60	27.50	103.22	Open To Flow (2)
90	34.24	104.16	Shut-In(2)
125	1213.42	105.33	End Shut-In(2)
126	1914.21	105.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	1mcw (oil spots in tool)	0.12

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

28 13s 34w Logan, Ks

202 W Main Street
Salem, Il 62881

Pahls # 1-28

Job Ticket: 49173

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.26 @ 14:39:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	1mcw (oil spots in tool)	0.123

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

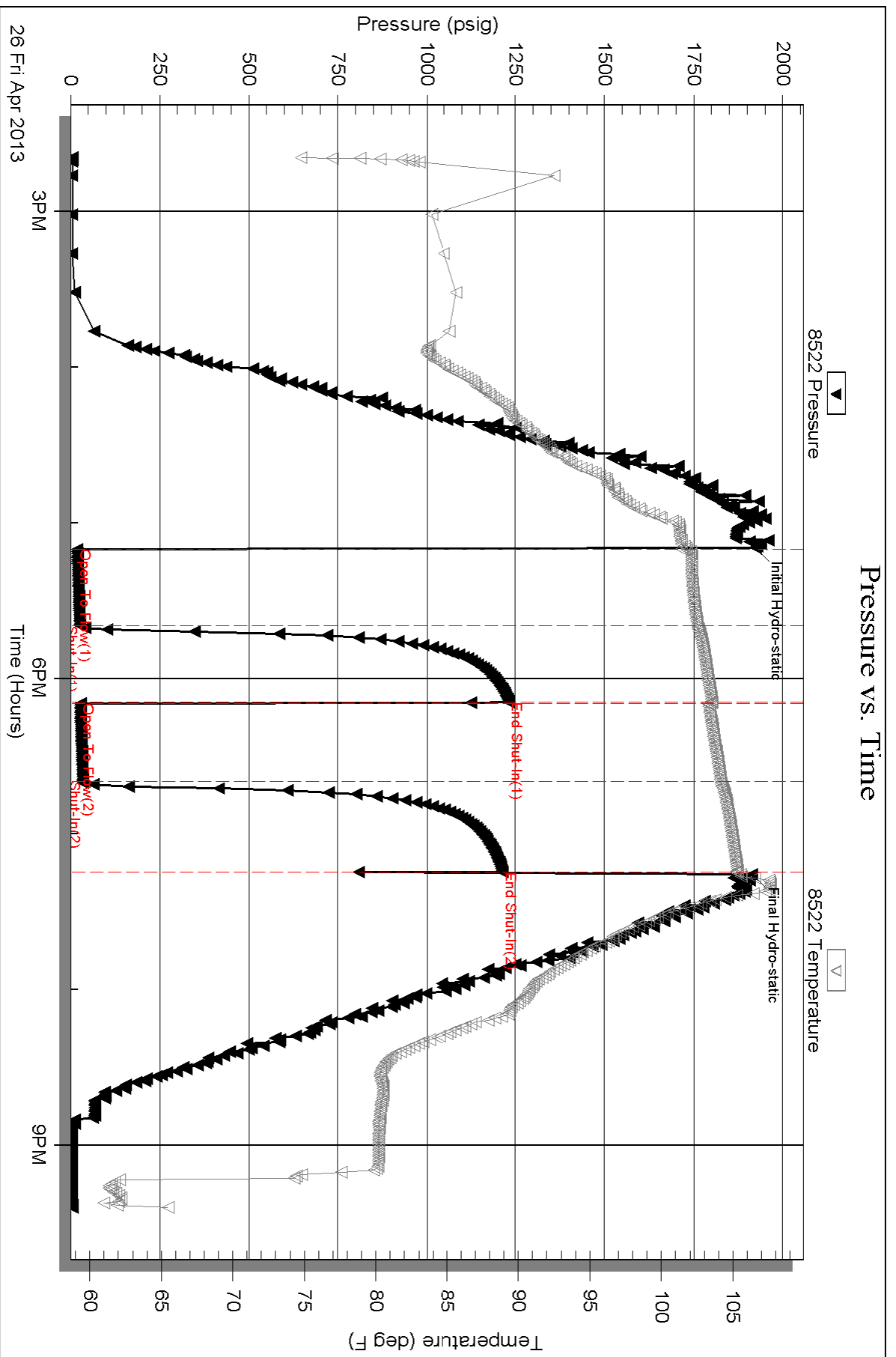
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .250 @ 63F = 30,000ppm





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

28 13s 34w Logan, Ks

202 W Main Street
Salem, Il 62881

Pahls # 1-28

Job Ticket: 49174

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.27 @ 17:51:00

GENERAL INFORMATION:

Formation: **LKC - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:07:45

Time Test Ended: 01:23:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4017.00 ft (KB) To 4035.00 ft (KB) (TVD)

Total Depth: 4035.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2911.00 ft (KB)

2901.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 95.41 psig @ 4018.00 ft (KB)

Start Date: 2013.04.27

End Date:

2013.04.28

Start Time: 17:51:05

End Time:

01:23:29

Capacity: 8000.00 psig

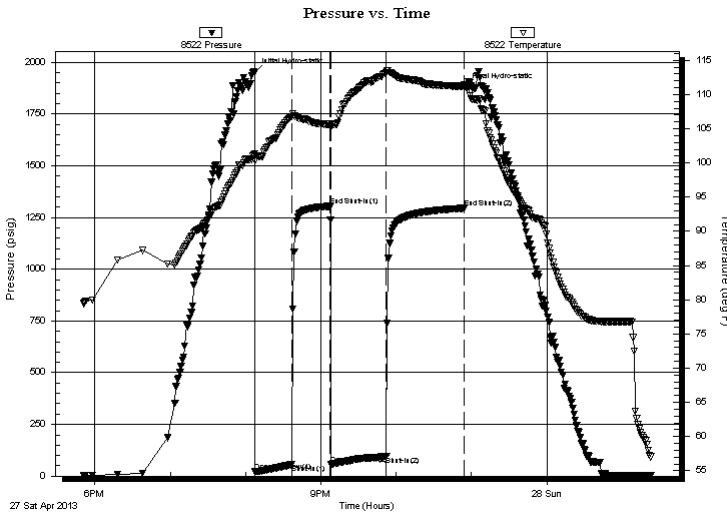
Last Calib.: 2013.04.28

Time On Btm: 2013.04.27 @ 20:07:30

Time Off Btm: 2013.04.27 @ 22:54:30

TEST COMMENT: IF: 2" blow.
IS: No return.
FF: 2" Blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1951.60	101.30	Initial Hydro-static
1	21.08	100.40	Open To Flow (1)
30	55.47	106.84	Shut-In(1)
60	1304.93	105.66	End Shut-In(1)
61	57.39	105.30	Open To Flow (2)
105	95.41	113.26	Shut-In(2)
167	1295.04	111.20	End Shut-In(2)
167	1880.50	111.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	mcw 25m 75w (oil spots in tool)	0.69

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

28 13s 34w Logan, Ks

202 W Main Street
Salem, Il 62881

Pahls # 1-28

Job Ticket: 49174

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.27 @ 17:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
140.00	mcw 25m 75w (oil spots in tool)	0.688

Total Length: 140.00 ft Total Volume: 0.688 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

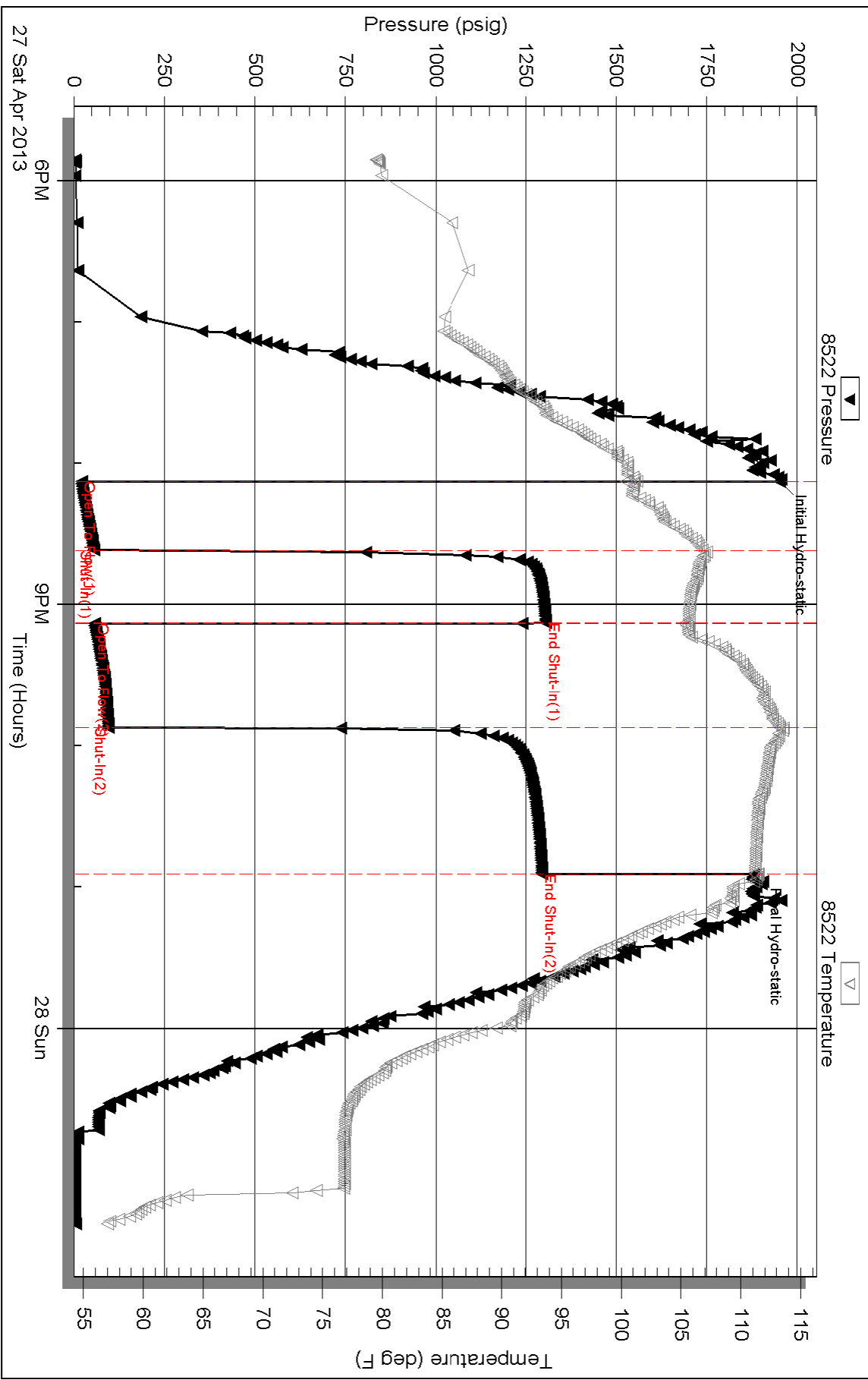
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .250 @ 58 F = 32000

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

28 13s 34w Logan, Ks

202 W Main Street
Salem, Il 62881

Pahls # 1-28

Job Ticket: 49175

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.28 @ 10:27:00

GENERAL INFORMATION:

Formation: **LKC - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:15

Time Test Ended: 17:16:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4045.00 ft (KB) To 4065.00 ft (KB) (TVD)

Reference Elevations: 2911.00 ft (KB)

Total Depth: 4065.00 ft (KB) (TVD)

2901.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 112.70 psig @ 4046.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.28

End Date: 2013.04.28

Last Calib.: 2013.04.28

Start Time: 10:27:05

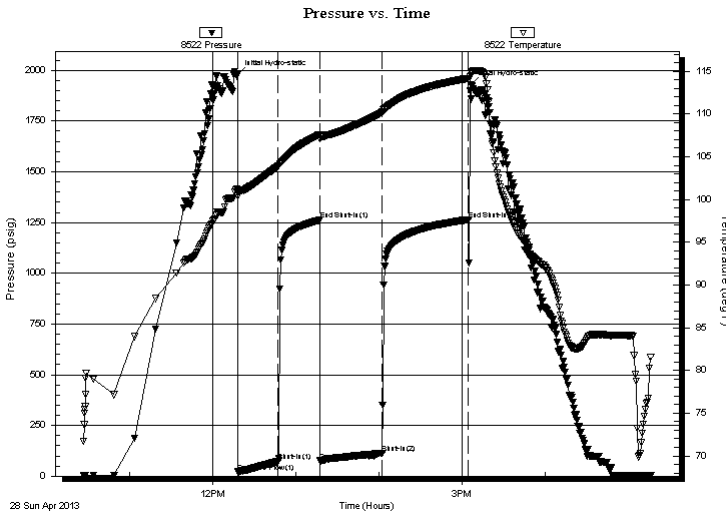
End Time: 17:16:14

Time On Btm: 2013.04.28 @ 12:18:00

Time Off Btm: 2013.04.28 @ 15:06:45

TEST COMMENT: IF: 4" blow.
IS: No return.
FF: 6" Blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.20	101.20	Initial Hydro-static
1	20.91	100.36	Open To Flow (1)
30	72.19	103.91	Shut-In(1)
60	1261.26	107.60	End Shut-In(1)
60	74.57	107.14	Open To Flow (2)
105	112.70	110.13	Shut-In(2)
167	1263.58	114.17	End Shut-In(2)
169	1931.55	114.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	mcw 10m 90w (oil spots)	1.36

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

28 13s 34w Logan, Ks

202 W Main Street
Salem, Il 62881

Pahls # 1-28

Job Ticket: 49175

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.28 @ 10:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

53000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	mcw 10m 90w (oil spots)	1.365

Total Length: 210.00 ft Total Volume: 1.365 bbl

Num Fluid Samples: 0

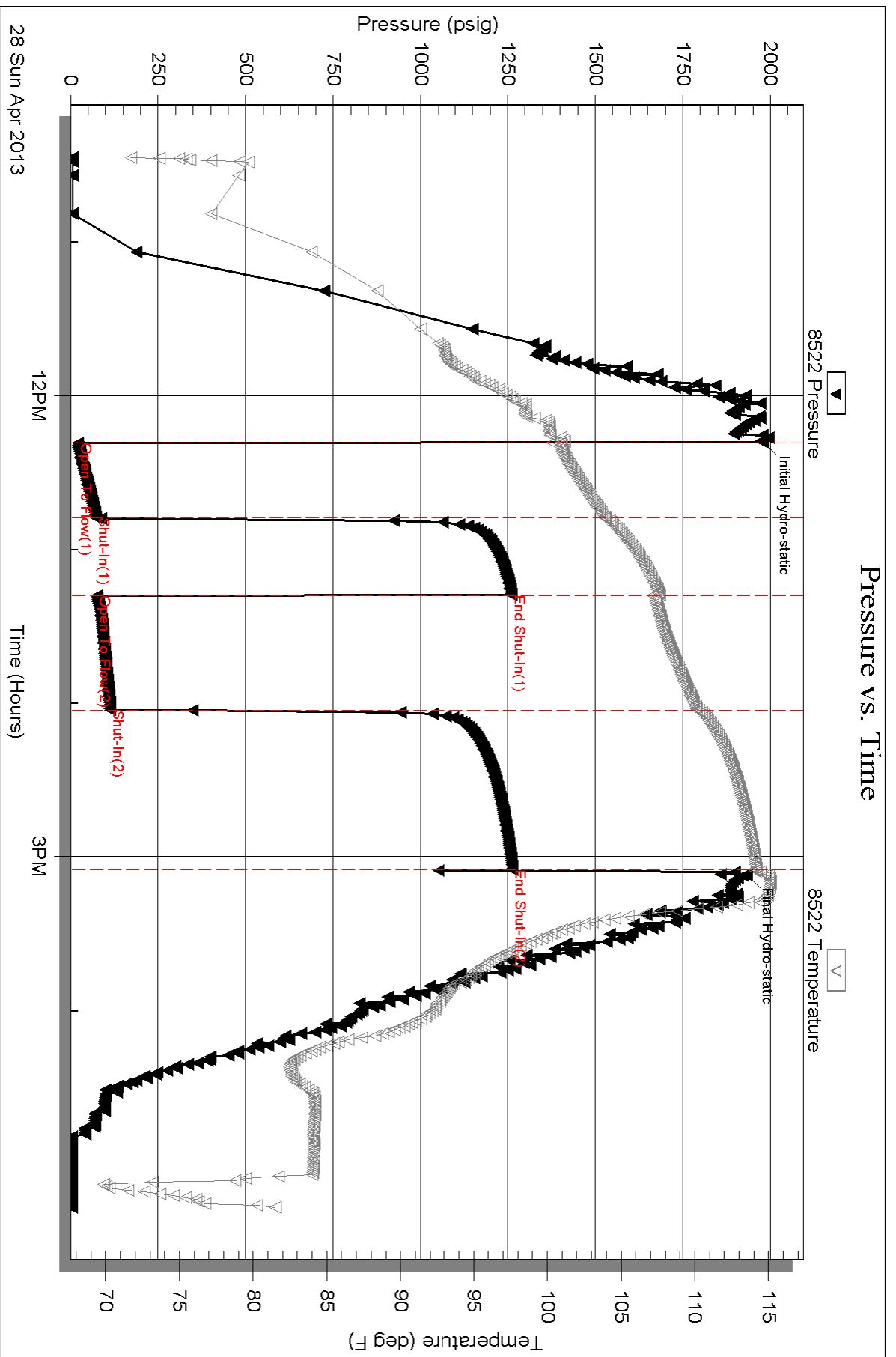
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw iw .130 @ 75F = 53000ppm





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc
 202 W Main Street
 Salem, IL 62881
 ATTN: Tim Priest

28 13s 34w Logan, Ks

Pahls # 1-28

Job Ticket: 53226

DST#: 4

Test Start: 2013.04.29 @ 14:35:00

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:18:15

Time Test Ended: 22:51:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4165.00 ft (KB) To 4200.00 ft (KB) (TVD)

Reference Elevations: 2911.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

2901.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 43.42 psig @ 4166.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.29

End Date: 2013.04.29

Last Calib.: 2013.04.29

Start Time: 14:35:05

End Time: 22:51:29

Time On Btm: 2013.04.29 @ 16:18:00

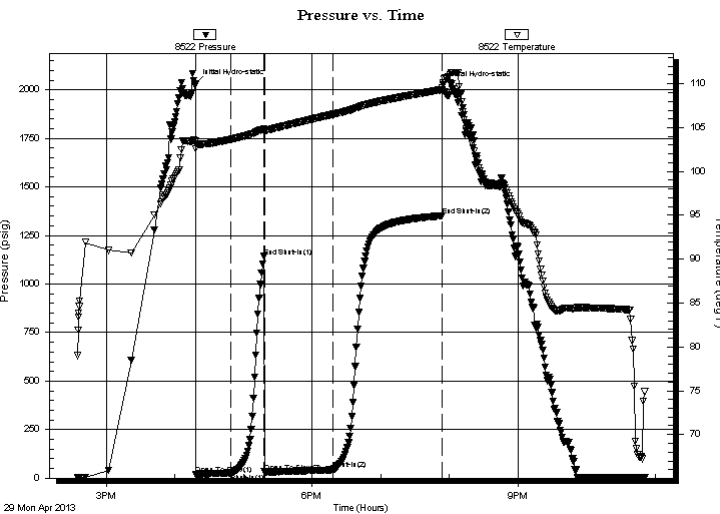
Time Off Btm: 2013.04.29 @ 19:54:45

TEST COMMENT: IF: Weak surface blow, died @ 9 min.

IS: No return.

FF: 3" blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2031.77	103.53	Initial Hydro-static
1	20.00	102.57	Open To Flow (1)
31	26.58	103.66	Shut-In(1)
60	1141.72	104.85	End Shut-In(1)
61	32.19	104.52	Open To Flow (2)
120	43.42	106.50	Shut-In(2)
216	1351.06	109.33	End Shut-In(2)
217	2023.75	110.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gsw mco 8g 2w 30m 60o	0.30
1.00	oil 100o	0.00
0.00	120' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

28 13s 34w Logan, Ks

202 W Main Street
Salem, Il 62881

Pahls # 1-28

Job Ticket: 53226

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.29 @ 14:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	gsw mco 8g 2w 30m 60o	0.295
1.00	oil 100o	0.005
0.00	120' GIP	0.000

Total Length: 61.00 ft Total Volume: 0.300 bbl

Num Fluid Samples: 0

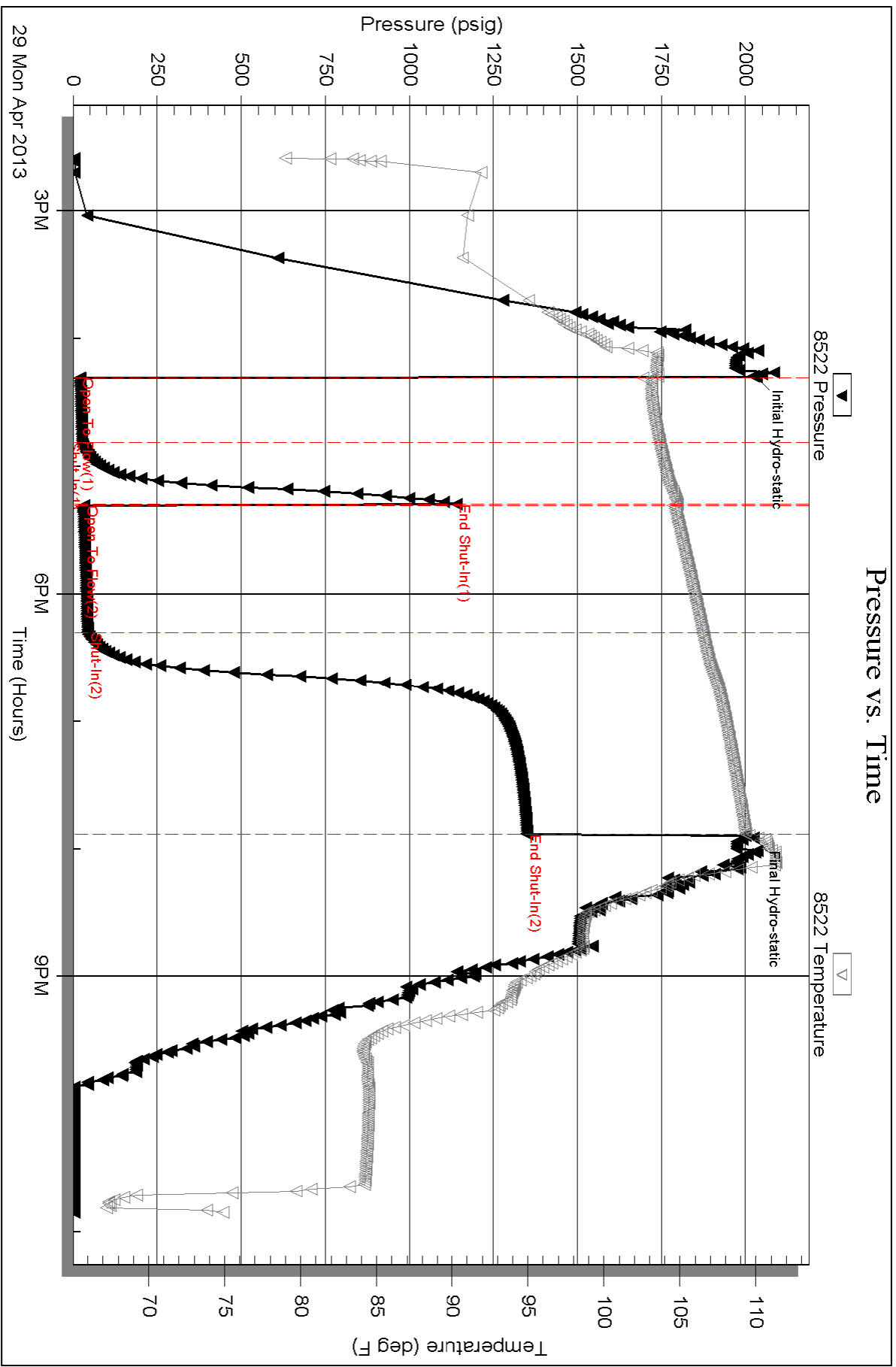
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

28 13s 34w Logan, Ks

202 W Main Street
Salem, Il 62881

Pahls # 1-28

Job Ticket: 53227

DST#: 5

ATTN: Tim Priest

Test Start: 2013.05.01 @ 01:06:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:58:00

Time Test Ended: 09:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4371.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2911.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

2901.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 27.82 psig @ 4372.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.01

End Date:

2013.05.01

Last Calib.:

2013.05.01

Start Time: 01:06:05

End Time:

08:59:59

Time On Btm:

2013.05.01 @ 03:57:45

Time Off Btm:

2013.05.01 @ 06:00:45

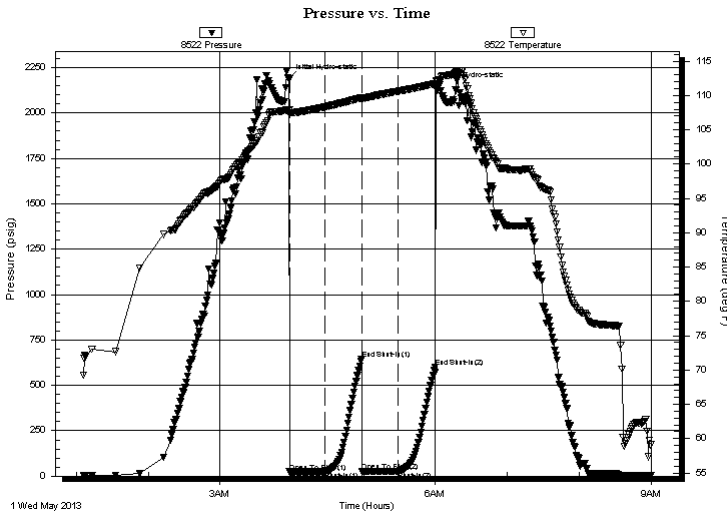
TEST COMMENT: IF: Surface blow, died @ 14 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.89	107.91	Initial Hydro-static
1	22.94	107.16	Open To Flow (1)
30	24.64	108.33	Shut-In(1)
61	646.05	109.65	End Shut-In(1)
61	25.18	109.35	Open To Flow (2)
92	27.82	110.61	Shut-In(2)
122	600.91	111.71	End Shut-In(2)
123	2144.66	112.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100m(oil spots)	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

28 13s 34w Logan, Ks

202 W Main Street
Salem, Il 62881

Pahls # 1-28

Job Ticket: 53227

DST#: 5

ATTN: Tim Priest

Test Start: 2013.05.01 @ 01:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100m(oil spots)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

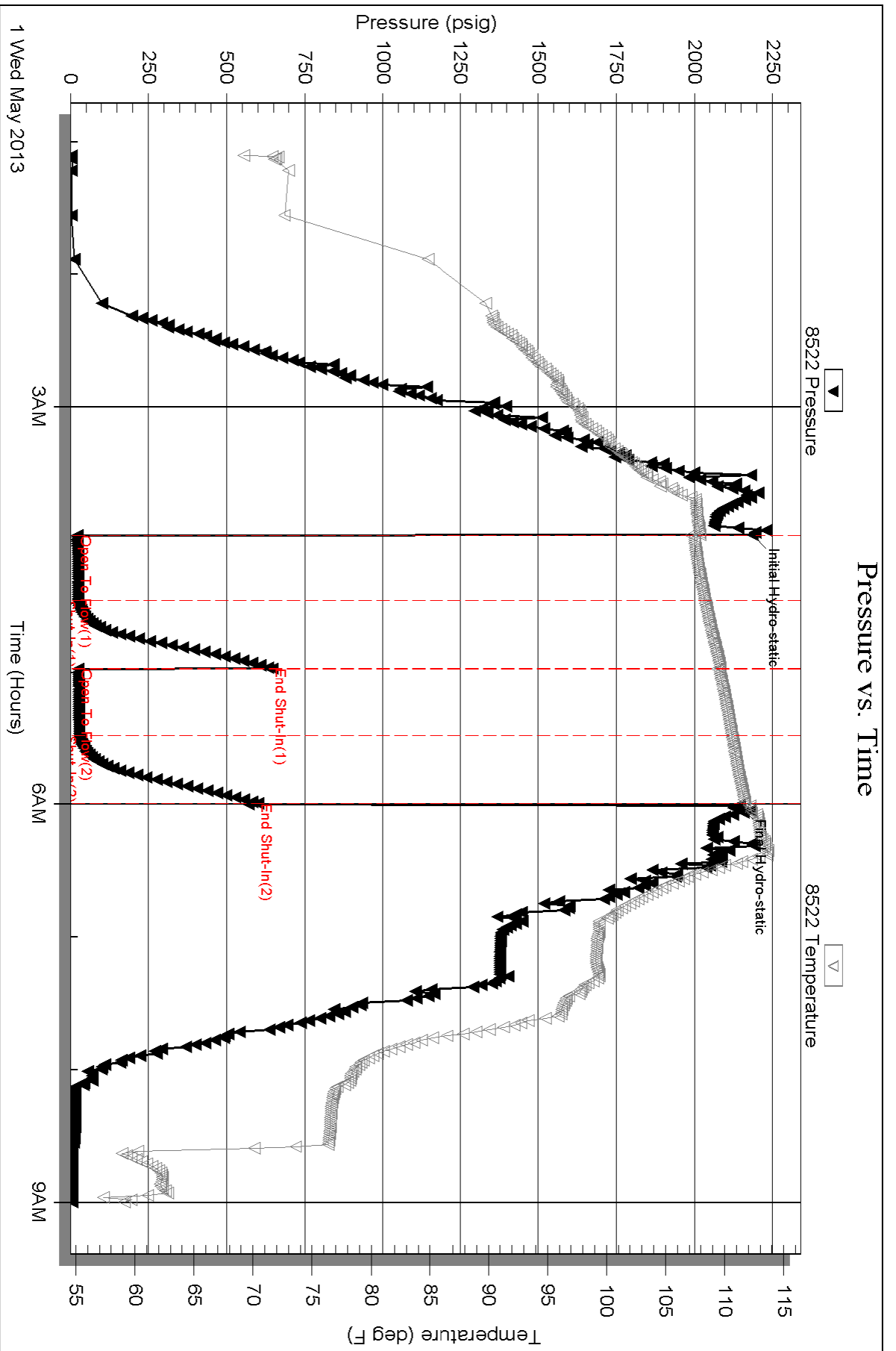
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TIM PRIEST
Petroleum Geologist
 (316)-213-6115

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY SHAKESPEARE OIL CO.
 LEASE PAHLS 1-28
 FIELD Wildcat
 LOCATION 360' FNL, 1250' FEL
 SEC 28 TWSP 13S RGE 34W
 COUNTY Logan STATE Kansas

ELEVATIONS

KB 2911'

DF _____

GL 2901'

Measurements Are All
 From KB

CONTRACTOR HD DrillingRig #2
 SPUD 4-20-13 COMP 5-2-13
 RTD 44580' LTD 4580'
 MUD UP 3500' TYPE MUD Chemical

CASING

CONDUCTOR N/A

SURFACE 8-5/8" @ 222'

PRODUCTION _____

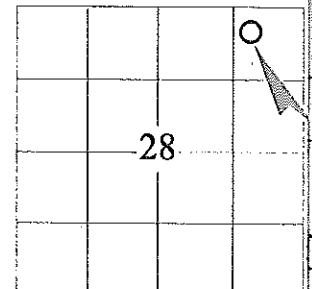
SAMPLES SAVED FROM 3600' to RTD
 DRILLING TIME KEPT FROM 3600' to RTD
 SAMPLES EXAMINED FROM 3600' to RTD
 GEOLOGICAL SUPERVISION FROM 3600' to RTD
 GEOLOGIST ON WELL Tim Priest

**ELECTRICAL
 SURVEYS**
CND;D/SP;P.E.

Micro

By: Weatherford

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	2311 (+600)	2311 (+600)
Heebner Shale	3745 (-834)	3747 (-836)
Lansing	3788 (-877)	3792 (-881)
Stark	4041 (-1130)	4042 (-1131)
BKC	4114 (-1203)	4115 (-1204)
Fort Scott	4312 (-1401)	4310 (-1399)
Cherokee Shale	4340 (-1429)	4340 (-1429)
Mississippian	4497 (-1586)	4497 (-1586)



REMARKS Due to the negative Drill Stem Tests, it was decided to plug and abandon the well.

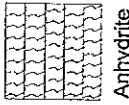
Respectfully Submitted,

Tim Priest

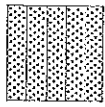
Petroleum Geologist

API #15-109-21170-00-00

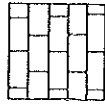
LEGEND



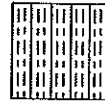
Anhydrite



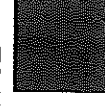
Sandstone



Limestone



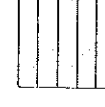
Shale



Carb Sh



Cherty LS



Chert



Dolomite

DEPTH

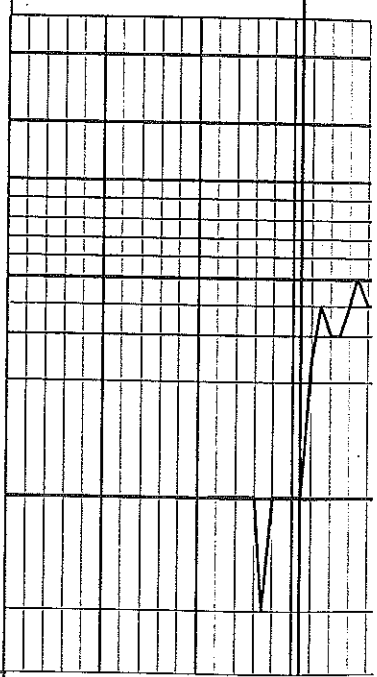
LITHOLOGY

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Decreases



.5 1.0 5 10 15 20 30

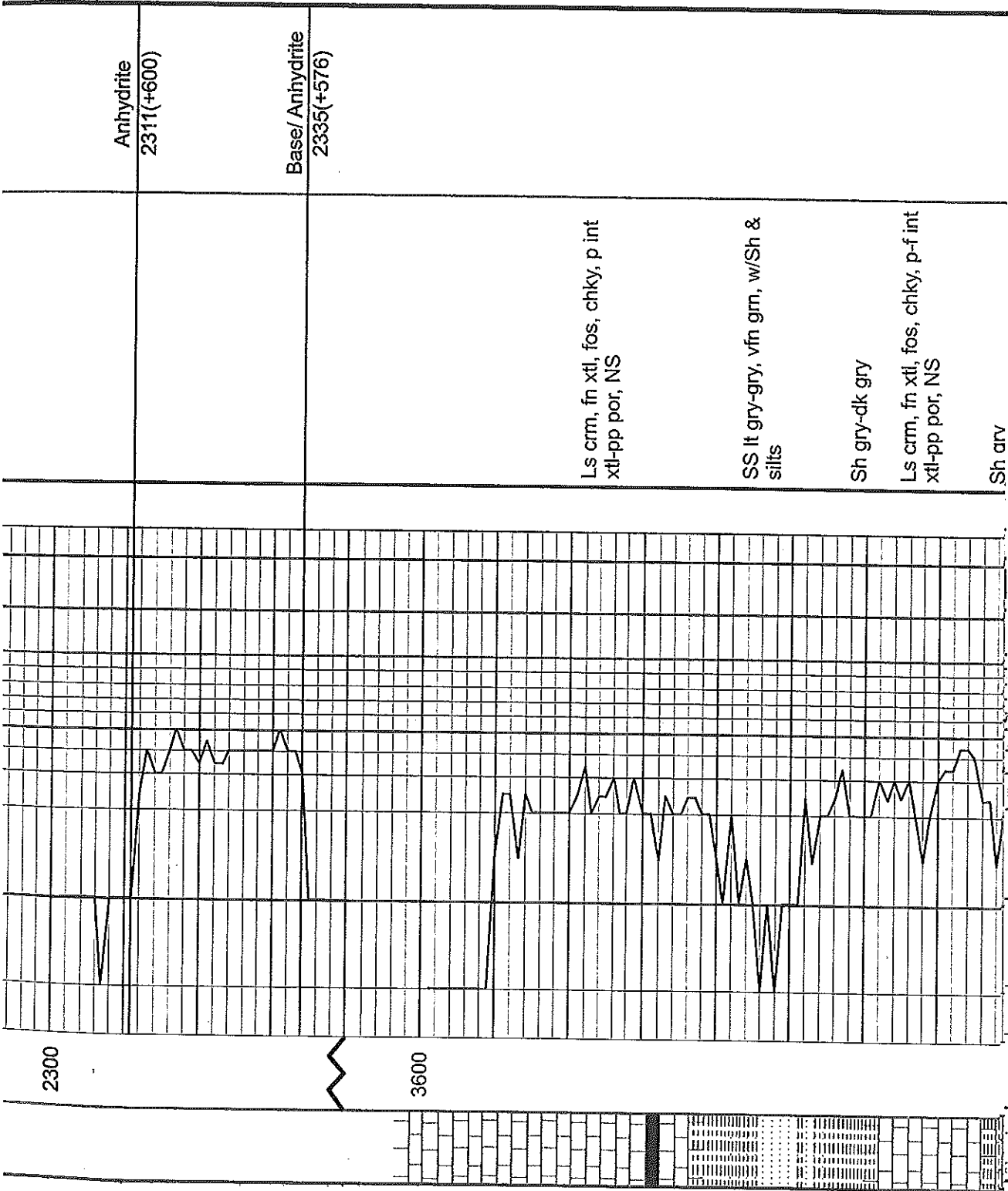


REMARKS

SAMPLE DESCRIPTION

2300

Anhydrite
2311(+600)



Anhydrite
2311(+600)

Base/ Anhydrite
2335(+576)

Ls crm, fn xtl, fos, chky, p int
xtl-pp por, NS

SS lt gry-gry, vfn gm, w/Sh &
silts

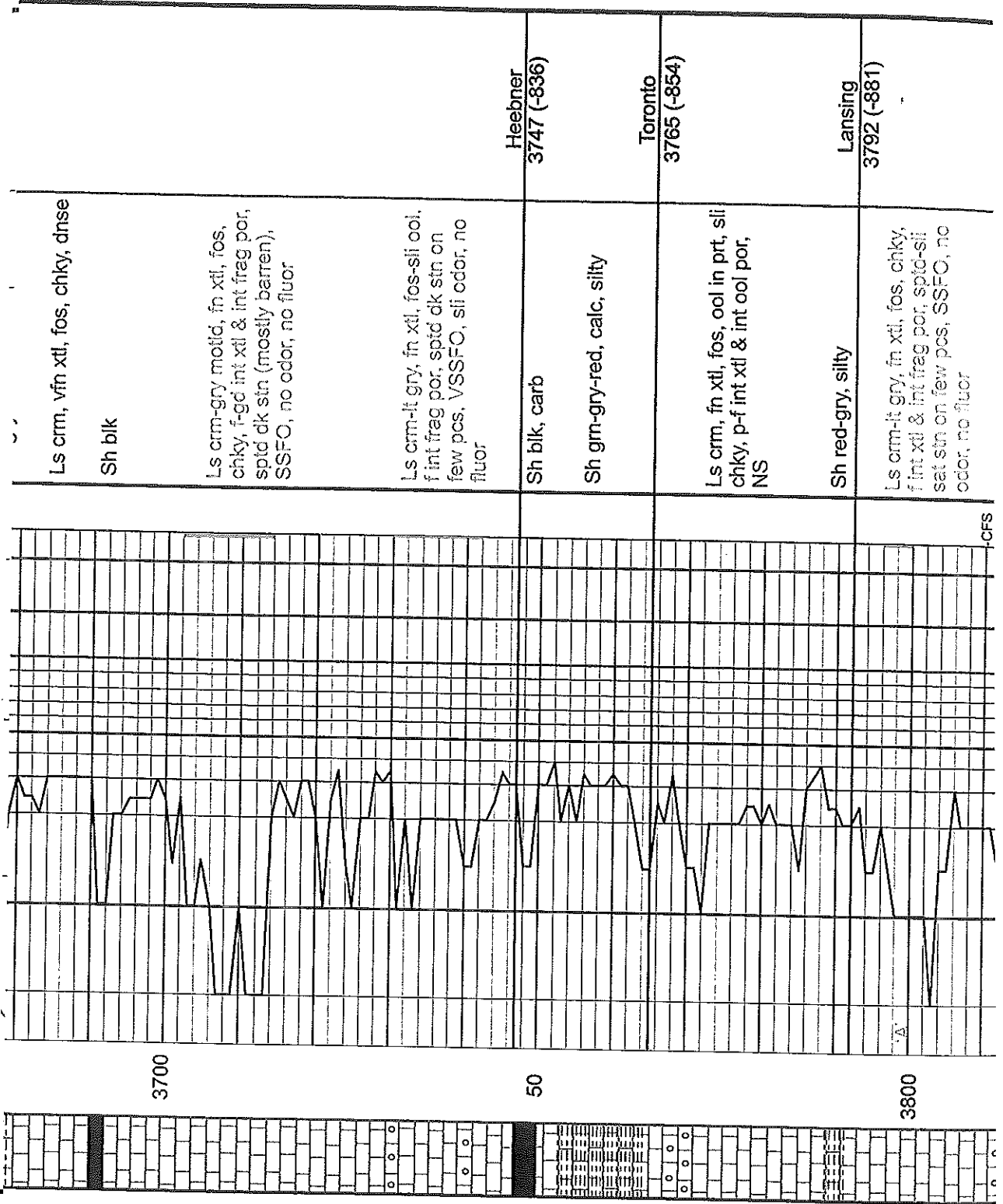
Sh gry-dk gry

Ls crm, fn xtl, fos, chky, p-f int
xtl-pp por, NS

Sh arv

2300

3600



Ls crm, vfn xtl, fos, chky, dnse

Sh blk

Ls crm-gry motid, fn xtl, fos, chky, f-gd int xtl & int frag por, spid dk stn (mostly barren), SSFO, no odor, no fluor

Ls crm-lt gry, fn xtl, fos-sli ool, f int frag por, spid dk stn on few pcs, VSSFO, sli odor, no fluor

Sh blk, carb

Sh gm-gry-red, calc, silty

Ls crm, fn xtl, fos, ool in prt, sli chky, p-f int xtl & int ool por, NS

Sh red-gry, silty

Ls crm-lt gry, fn xtl, fos, chky, f int xtl & int frag por, spid-sli sat stn on few pcs, SSFO, no odor, no fluor

Heebner
3747 (-836)

Toronto
3765 (-854)

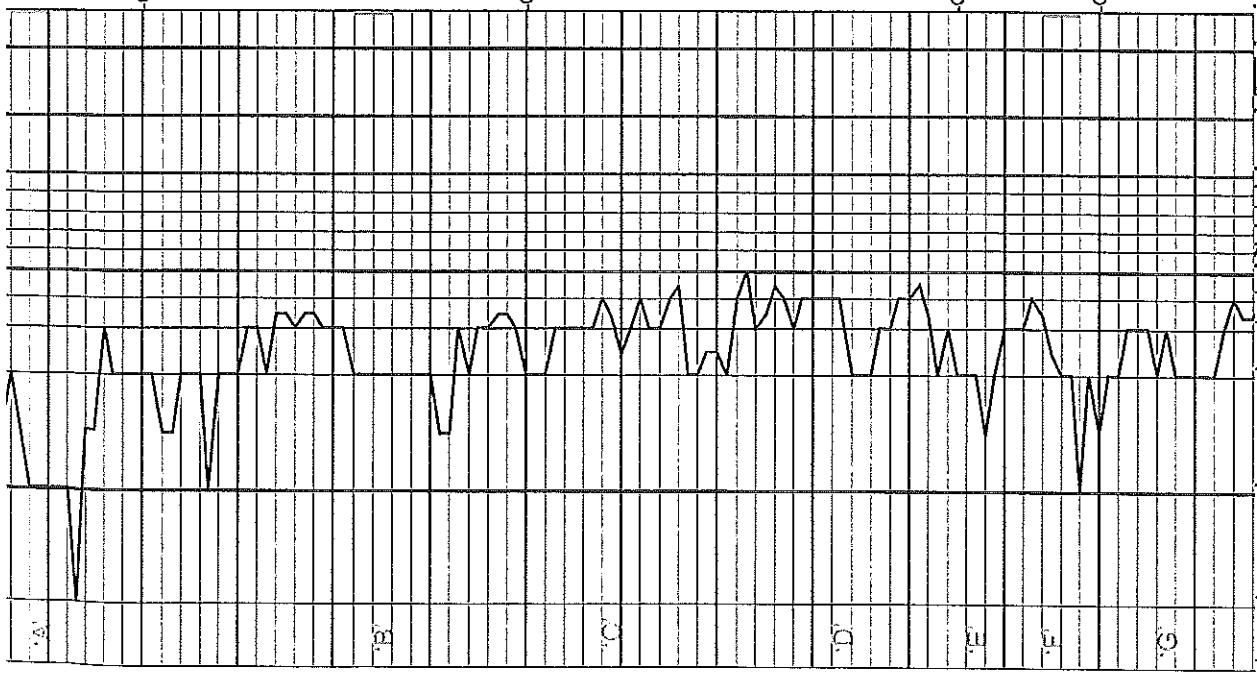
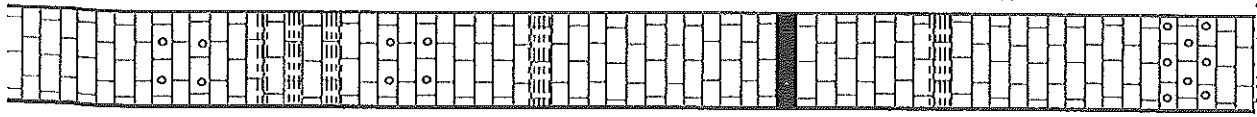
Lansing
3792 (-881)

3700

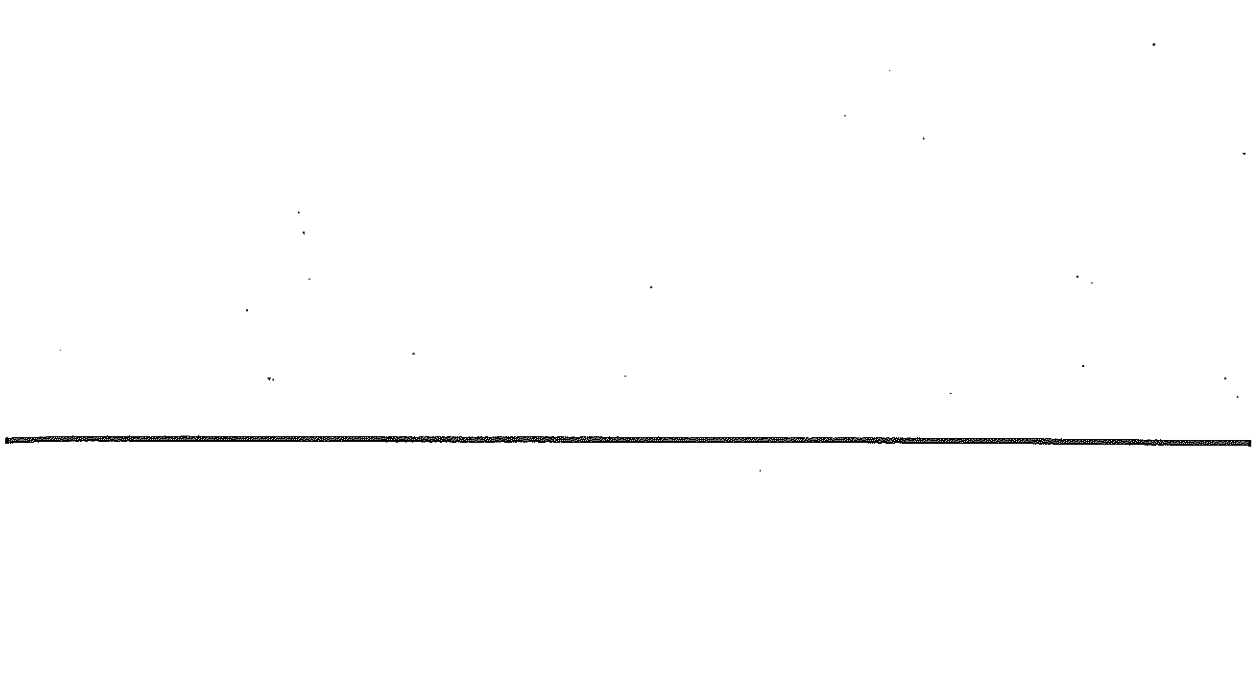
50

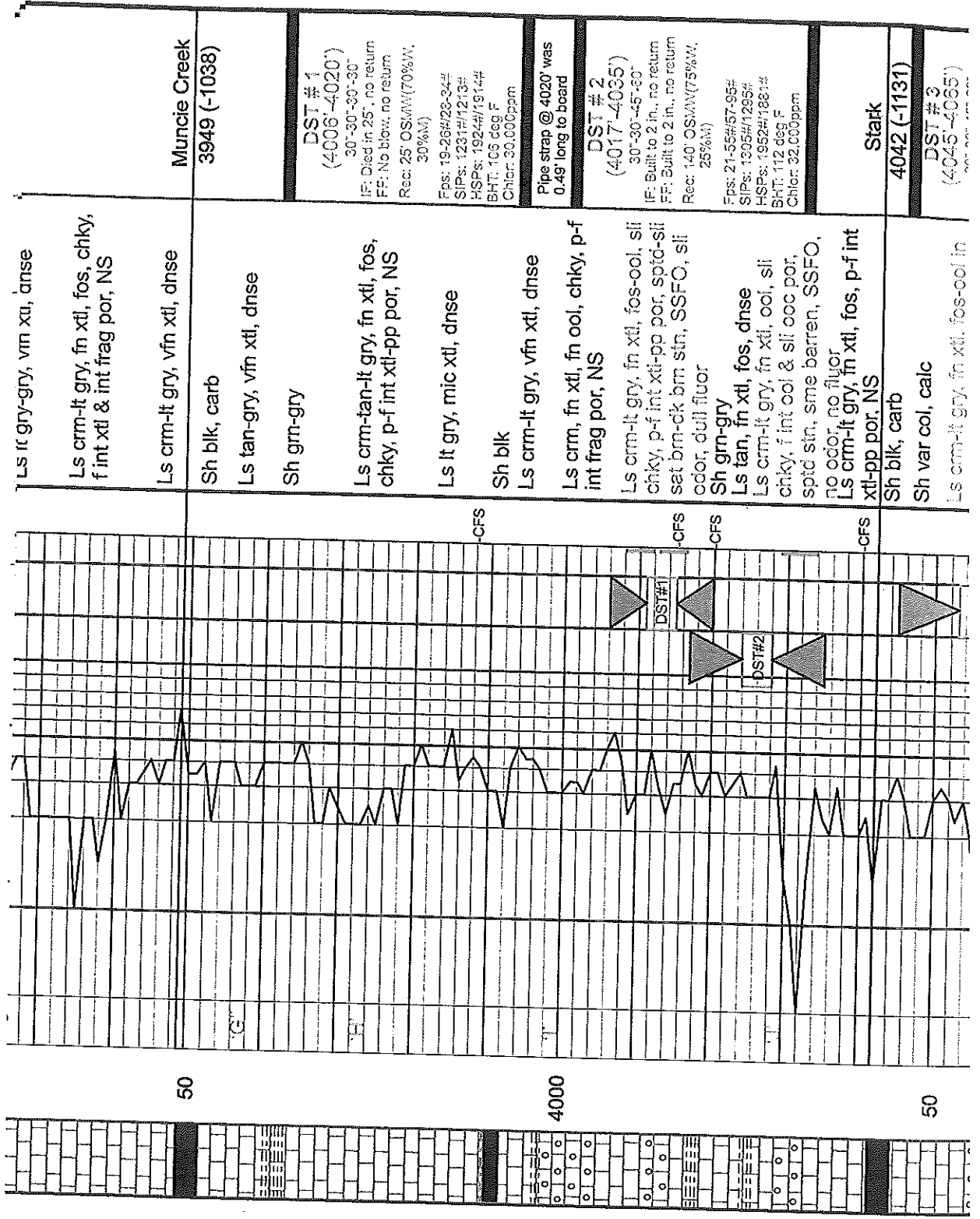
3800

CFS



Ls crm-lt gry, fn xtl, fos, chky, f int xtl & int frag por, spid-sli sat stn on few pcs, SSFO, no odor, no fluor
 Ls crm-lt gry, fn xtl, fos-ool, chky, f int xtl & int frag por, NS
 Ls crm-lt gry, vfn xtl, dnse, w/ int bed red-gry Sh
 Ls crm-lt gry, fn xtl, fos-ool, chky, f int xtl & int frag por, spid bik stn of few pcs, VSSFO, no odor, no fluor
 Ls crm-lt gry, vfn xtl, dnse
 Sh red-gry
 Ls crm-lt gry, vfn xtl, dnse
 Ls crm-tan, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Sh blk, carb
 Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Sh grm-gry
 Ls crm-lt gry, fn xtl, dolo in prt, fos, chky, f int xtl-pp por, NS
 Ls crm-tan, fn xtl, fos, chky, p-f int xtl-pp por, spid-sli sat stn on 2 pcs, VSSFO, no odor, duil fluor
 Ls crm-lt gry, fn xtl, fos-ool, chky, p-f int xtl-pp por, NS





50

4000

50

Muncie Creek
3949 (-1038)

DST #1
(4006'-4020')
30'-30'-30'-30'
IF: Died in 25', no return
FF: No blow; no return
Rec: 25' OSMAW (70%W,
30%N)

Fps: 19-26#123-34#
SIPs: 1231#1213#
HSPs: 1924#1914#
BHT: 108 deg F
Chlor: 30.000ppm

Pipe strap @ 4020' was
0.49' long to board

DST #2
(4017'-4035')
30'-30'-45'-30'
IF: Built to 2 in., no return
FF: Built to 2 in., no return
Rec: 140' OSMAW (75%W,
25%N)

Fps: 21-55#57-95#
SIPs: 1305#1295#
HSPs: 1952#1861#
BHT: 112 deg F
Chlor: 32.000ppm

Stark
4042 (-1131)

DST #3
(4045'-4065')

Ls lt gry-gry, vfn xtl, dnse
Ls crm-lt gry, fn xtl, fos, chky,
f int xtl & int frag por, NS

Ls crm-lt gry, vfn xtl, dnse

Sh blk, carb

Ls tan-gry, vfn xtl, dnse

Sh grn-gry

Ls crm-tan-lt gry, fn xtl, fos,
chky, p-f int xtl-pp por, NS

Ls lt gry, mic xtl, dnse

Sh blk

Ls crm-lt gry, vfn xtl, dnse

Ls crm, fn xtl, fn ool, chky, p-f
int frag por, NS

Ls crm-lt gry, fn xtl, fos-ool, sli
chky, p-f int xtl-pp por, spfd-sli
set brn-ck brn str, SSFO, sli
odor, dull fluor

Sh grn-gry

Ls tan, fn xtl, fos, dnse

Ls crm-lt gry, fn xtl, ool, sli
chky, f int ool & sli ool por,
spfd str, sme barren, SSFO,
no odor, no fluor

Ls crm-lt gry, fn xtl, fos, p-f int
xtl-pp por, NS

Sh blk, carb

Sh var col, calc

Ls crm-lt gry, fn xtl, fos-ool in

-CFS

-CFS

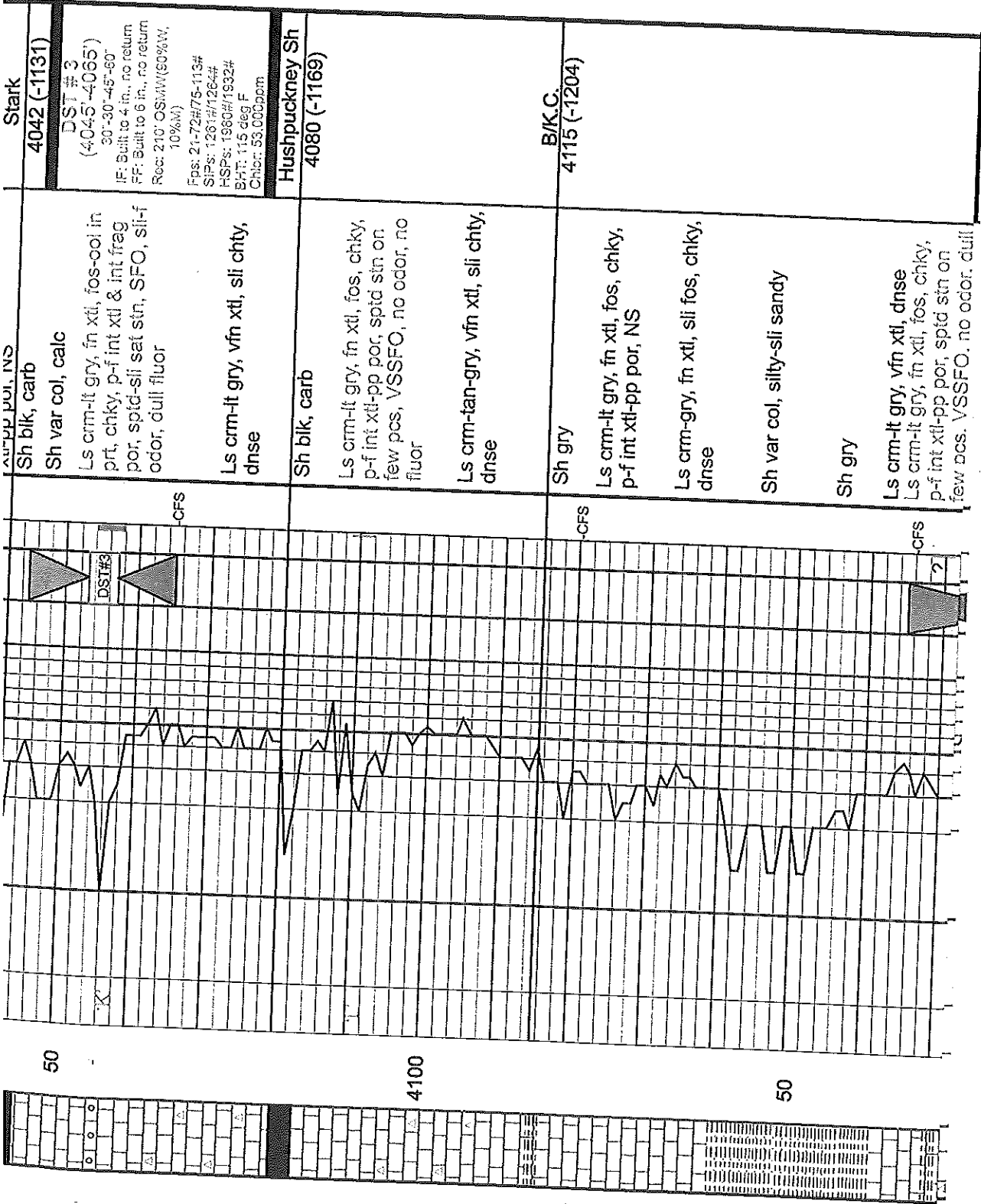
-CFS

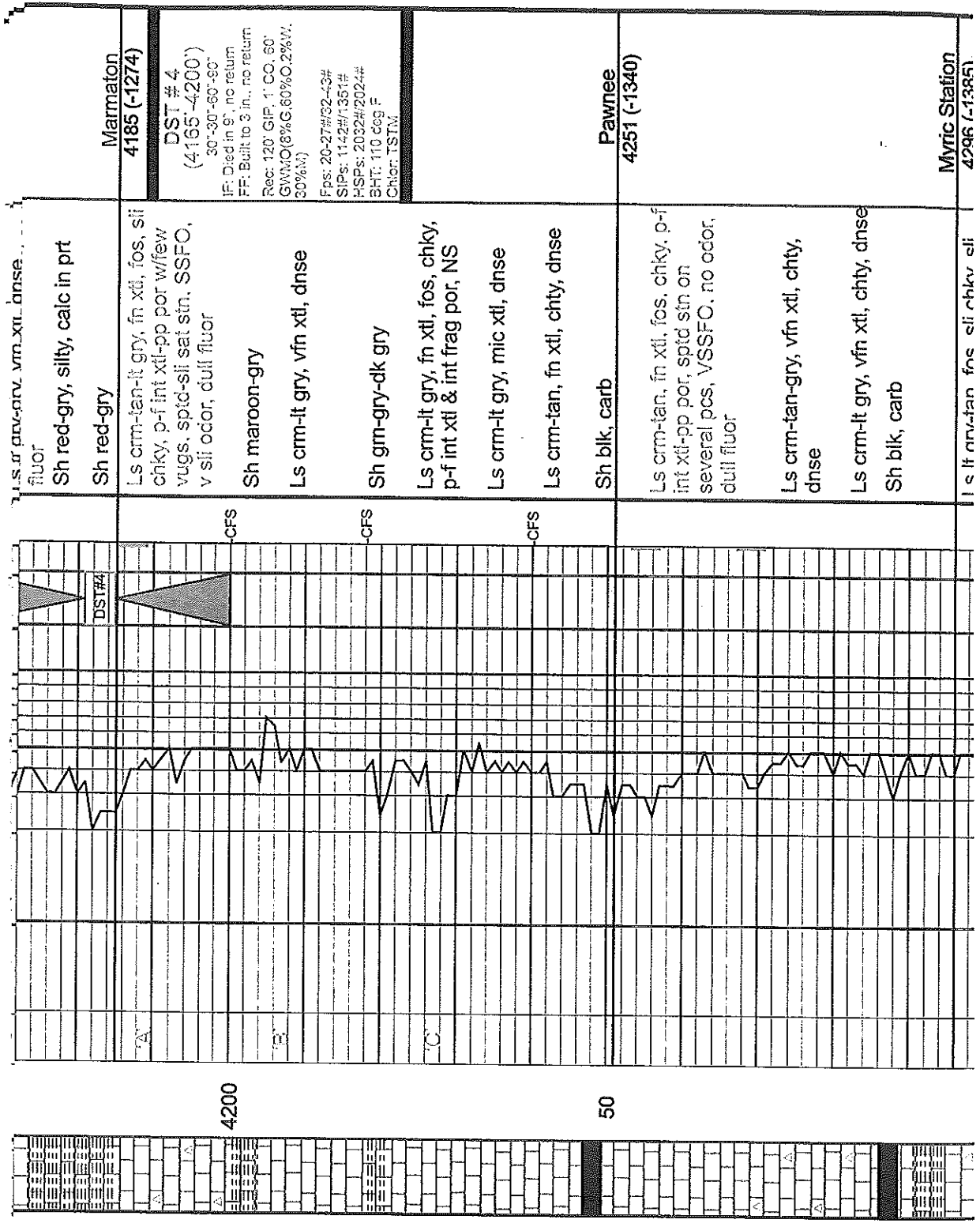
-CFS

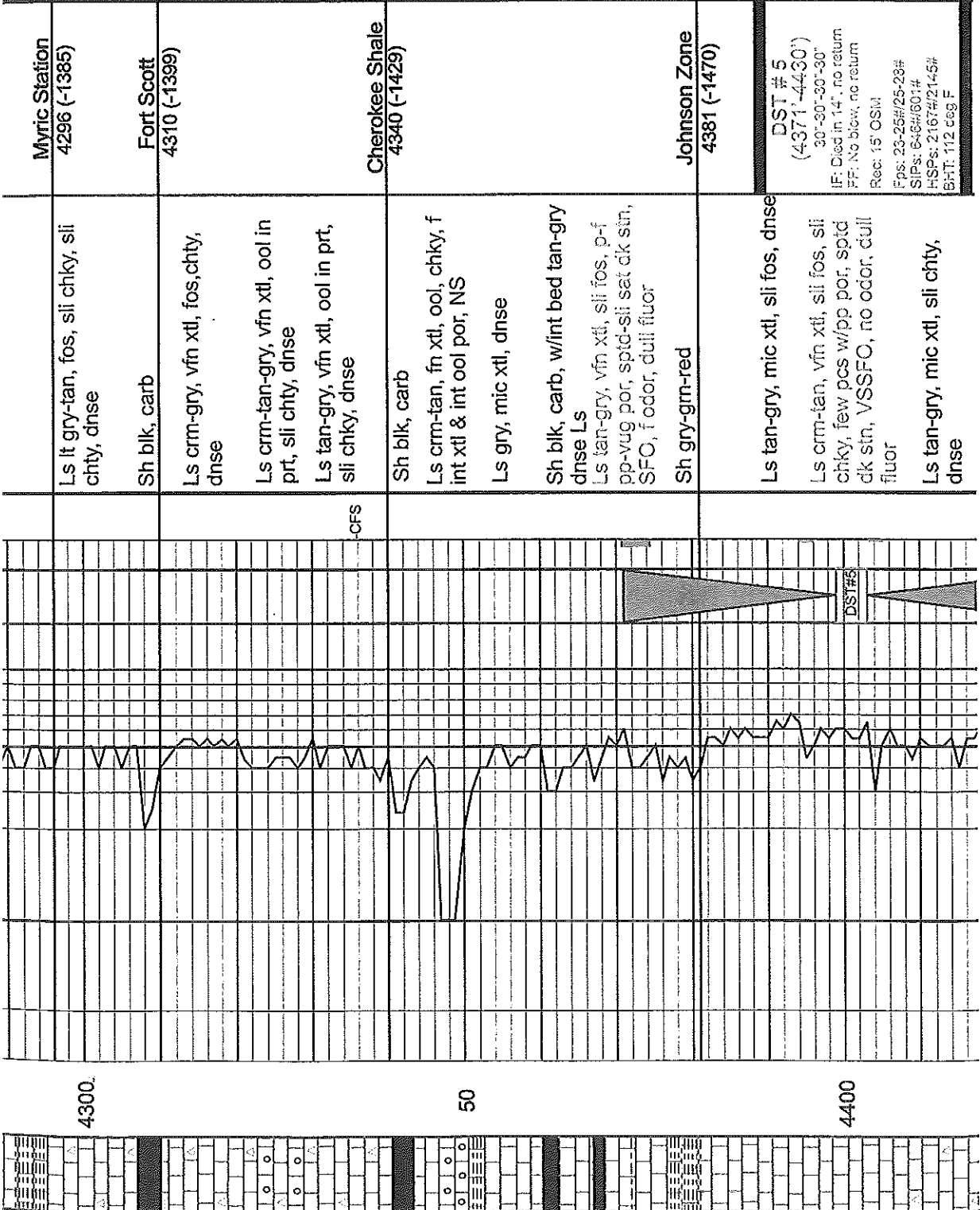
DST#1

DST#2

DST#3







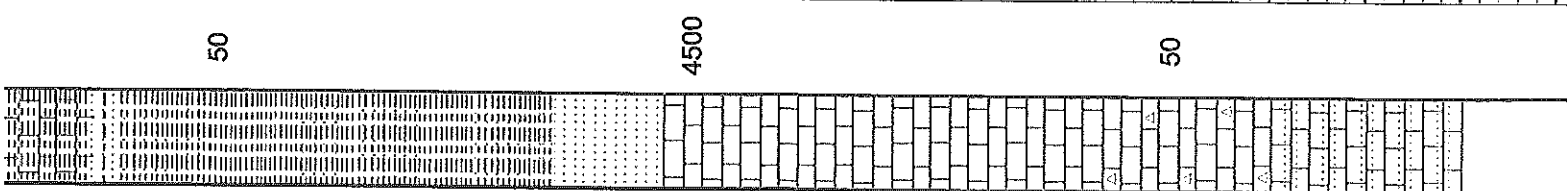
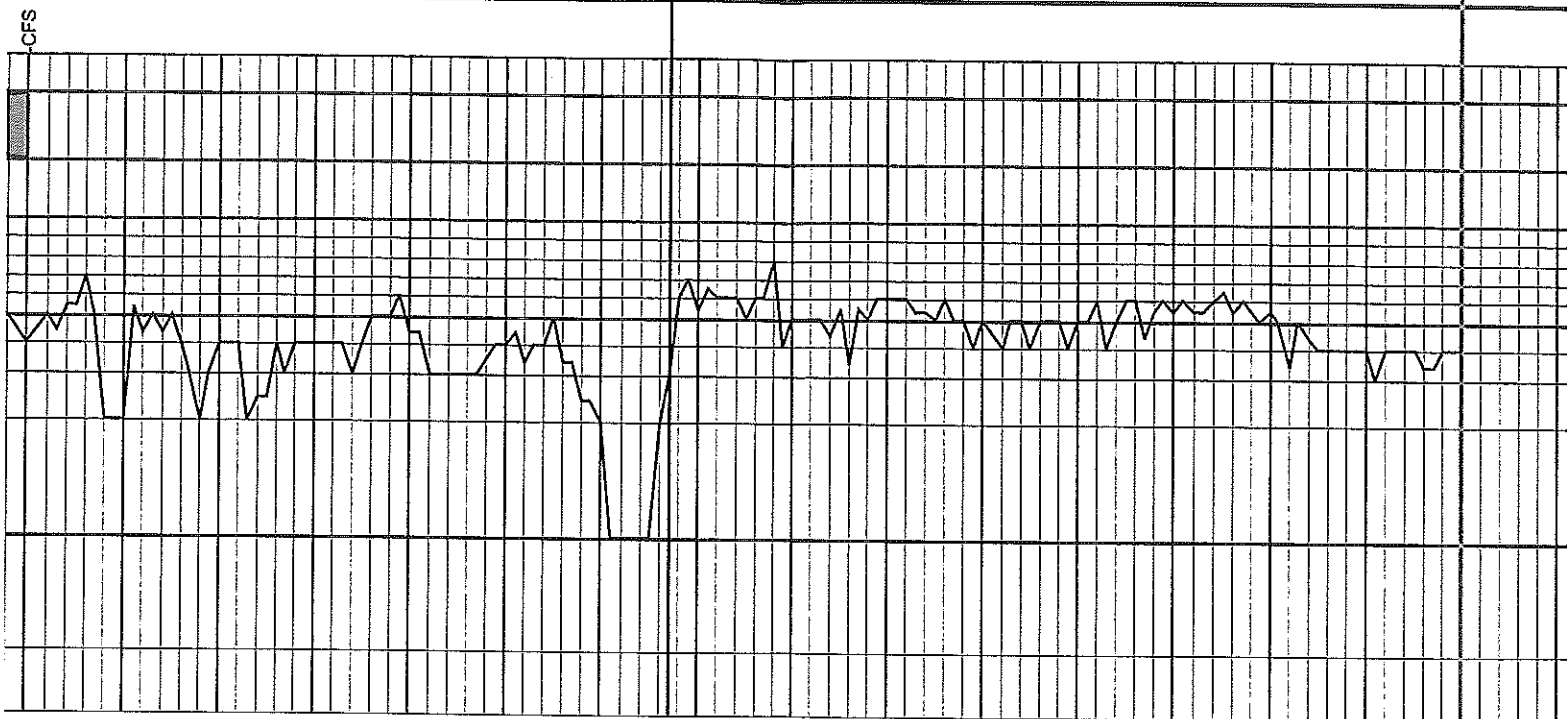
DST # 5
 (4371'-4430')
 30"-30"-30"-30"
 IF: Died in 14", no return
 FF: No blk-w, no return
 Rec: 15' OSM
 Fps: 23-25#/25-28#
 SIPs: 648#/601#
 HSPs: 2167#/214-5#
 BPT: 112 ceg F

4300.

50

4400

<p>Sh var col, silty, calc in prt</p> <p>SS lt gry, fn grm, sli fria, sli dirty</p> <p>Sh var col, w/wh-lt grm fn grm SS, sli fria, NS</p> <p>Sh var col, most blk</p> <p>Sh var col, w/wh vfn grm SS</p> <p>Sh var col, silty, sme blk</p> <p>SS wh-lt grm, fn grm, fria, NS</p>	<p>Mississippian</p> <p>4497 (-1586)</p> <p>Ls tan, mic xtl, dnse</p> <p>Ls crm-tan, mic xtl, sli chky, dnse</p> <p>Ls tan, mic xtl, dnse</p> <p>Ls crm-tan, mic xtl, sli chky, dnse</p> <p>Ls crm-tan, mic xtl, sli chty, dnse</p> <p>Ls crm-tan vfn xtl, sandy, dnse</p>
---	--



Total Depth
4580' (-1669)

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

May 20, 2013

Don Williams
Shakespeare Oil Co., Inc.
202 W MAIN ST
SALEM, IL 62881-1519

Re: ACO1
API 15-109-21170-00-00
Pahls 1-28
NE/4 Sec.28-13S-34W
Logan 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,
Don Williams