



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1152103
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: _____



1152103

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Tucker 1-9
Doc ID	1152103

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Tucker 1-9
Doc ID	1152103

Tops

Name	Top	Datum
Base Anhydrite	2483	+657
Heebner	3986	-846
Lansing	4032	-892
Muncie Creek	4212	-1072
Stark Shale	4304	-1164
Hushpuckney	4349	-1209
Pawnee	4528	-1388
Cherokee Shale	4606	-1466
Johnson	4648	-1508
Morrow Shale	4738	-1598
Mississippian	4787	-1647

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 136534
Invoice Date: May 31, 2013
Page: 1

Bill To:

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

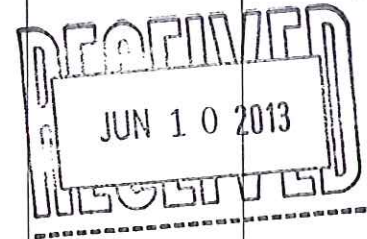
Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Shak	59322	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	May 31, 2013	6/30/13

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Tucker #1-9 Class A Common	17.90	3,222.00
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
194.00	SER	Cubic Feet	2.48	481.12
398.70	SER	Ton Mileage	2.60	1,036.62
1.00	SER	Surface	1,512.25	1,512.25
45.00	SER	Pump Truck Mileage	7.70	346.50
45.00	SER	Light Vehicle Mileage	4.40	198.00
1.00	CEMENTER	Patrick Helgerson		
1.00	EQUIP OPER	Kevin Eddy		
1.00	OPER ASSIST	Chris Helpingstine		

Surface
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

\$ 1,885.17

ONLY IF PAID ON OR BEFORE
Jun 25, 2013

Subtotal	7,250.69
Sales Tax	305.12
Total Invoice Amount	7,555.81
Payment/Credit Applied	
TOTAL	7,555.81

ALLIED OIL & GAS SERVICES, LLC 059322

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Great Bend

DATE <u>5-31-13</u>	SEC. <u>9</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT <u>12 PM</u>	ON LOCATION <u>7 PM</u>	JOB START <u>9:05 AM</u>	JOB FINISH <u>9:25 PM</u>
LEASE <u>Tucker</u>	WELL # <u>1-9</u>	LOCATION <u>Penice 1 1/4 N W into</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR HD Drilling

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 267

CASING SIZE 8 5/8 DEPTH 267

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 20

CEMENT LEFT IN CSG. 1.272 bbls

PERFS. _____

DISPLACEMENT 15.71 bbls

OWNER Shakespeare Oil Co

CEMENT AMOUNT ORDERED 180 shs

Class A 3 1/2 C.C. 2 1/2 Gal

COMMON	<u>180</u>	@ <u>17.90</u>	<u>3,222.00</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>6</u>	@ <u>64.00</u>	<u>384.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>1.94</u>	@ <u>2.48</u>	<u>481.12</u>
MILEAGE	<u>8.86 x 45 x</u>	<u>2.60</u>	<u>1036.62</u>
			TOTAL <u>5,193.94</u>

EQUIPMENT

PUMP TRUCK CEMENTER Patrick Helgesen

366 HELPER Kevin Eddy

BULK TRUCK

347 DRIVER Chris Helmgastine

BULK TRUCK

_____ DRIVER _____

REMARKS:

Pumped 5 bbl spacer-water

Pumped 43 bbl cement @ 15.2 PPG

Pumped 15.71 bbls displacement-water

Shut In.

Circulated 5 bbls cement to surface

CHARGE TO: Shakespeare Oil Co.

STREET 202 W Main St

CITY Salem STATE IL ZIP 62881

SERVICE

DEPTH OF JOB _____		
PUMP TRUCK CHARGE	<u>1512.35</u>	
EXTRA FOOTAGE	@	
MILEAGE	@	
MANIFOLD	@	
<u>HUM 45</u>	@ <u>7.40</u>	<u>346.50</u>
<u>LVH 45</u>	@ <u>4.40</u>	<u>198.00</u>
TOTAL <u>2,056.75</u>		

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 Richard D. Brockman

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 7,250.69

DISCOUNT 1,885.13 IF PAID IN 30 DAYS

5,365.51

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 136789
Invoice Date: Jun 13, 2013
Page: 1

Bill To:

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

Now Includes:

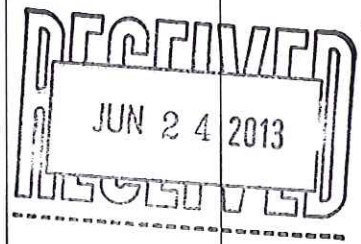


Customer ID	Field Ticket #	Payment Terms	
Shak	60846	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jun 13, 2013	7/13/13

Quantity	Item	Description	Unit Price	Amount
3.00	MAT	Tucker #1-9 Gel	23.40	70.20
180.00	MAT	ASC	20.90	3,762.00
900.00	MAT	Gilsonite	0.98	882.00
19.00	MAT	Salt	26.35	500.65
135.00	MAT	CD-31	10.30	1,390.50
12.00	MAT	Super Flush	58.70	704.40
233.79	SER	Cubic Feet	2.48	579.79
455.40	SER	Ton Mileage	2.60	1,184.04
1.00	SER	Production	2,765.75	2,765.75
45.00	SER	Pump Truck Mileage	7.70	346.50
1.00	SER	Manifold Head Rental	275.00	275.00
45.00	SER	Light Vehicle Mileage	4.40	198.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	Brandon Wilkinson		

INT

Production-
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

\$ 3,291.29

ONLY IF PAID ON OR BEFORE
Jul 8, 2013

Subtotal	12,658.83
Sales Tax	606.71
Total Invoice Amount	13,265.54
Payment/Credit Applied	
TOTAL	13,265.54

DW

ALLIED OIL & GAS SERVICES, LLC 060846

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Oakley

DATE <u>6-13-13</u>	SEC <u>9</u>	TWP <u>16s</u>	RANGE <u>34W</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00AM</u>	JOB FINISH <u>11:30AM</u>
LEASE <u>Tucker</u>	WELL # <u>1-9</u>	LOCATION <u>Pence 1/2N W14E2</u>	COUNTY <u>SCOTT</u>	STATE <u>TX</u>			
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR HO #2 OWNER same

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 4860' CEMENT AMOUNT ORDERED 180 sks ASC

CASING SIZE 5 1/2 DEPTH 4865.86 10# salt 20# gel 5# Gilsonite

TUBING SIZE DEPTH 7401.8 CO-31 1200L super flush

DRILL PIPE DEPTH

TOOL Port collar DEPTH 2432.52

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 48.63

CEMENT LBFT IN CSG. 48.63

PERFS.

DISPLACEMENT 11465 BBL

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Eastland

431 HELPER Dane Keteleff

BULK TRUCK DRIVER Brandon Wilkerson

342 DRIVER

BULK TRUCK DRIVER

DRIVER

COMMON @

POZMIX @

GEL 3 sks @ 23.40 70.20

CHLORIDE @

ASC 180 sks @ 20.90 3762.00

@

Gilsonite 900 @ .98 882.00

@

salt 19 sks @ 26.35 500.65

@

CO-31 135 # @ 10.20 1397.25

@

super flush 1200L @ 58.20 704.40

HANDLING 233.79 @ 2.88 529.79

MILBAGE 2.60 @ 10.12 26.31

TOTAL 9082.33

REMARKS:

Pump 1200L super flush. Plug Ret
hope 30 sks. mix 150 sks ASC down
5 1/2 casing, wash pump and line clean
start displacement. 2500L lift
land plug 1300#, float held.

Thank you

CHARGE TO: Shakespeare

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 4865.86

PUMP TRUCK CHARGE 2265.25

EXTRA FOOTAGE @

MILBAGE 45 miles @ 7.20 341.50

MANIFOLD head @ 225.00

Light vehicle @ 4.40 198.00

@

TOTAL 3585.25

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.

SALES TAX (If Any)

TOTAL CHARGES 12,665.58

DISCOUNT 3,293.05 IF PAID IN 30 DAYS

9,372.53 Net.

PRINTED NAME Doug Roberts

SIGNATURE Doug Roberts

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 136897
Invoice Date: Jun 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	60315	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Jun 20, 2013	7/20/13

Quantity	Item	Description	Unit Price	Amount
255.00	MAT	Tucker #1-9 Class A Common	17.90	4,564.50
170.00	MAT	Pozmix	9.35	1,589.50
34.00	MAT	Gel	23.40	795.60
106.00	MAT	Flo Seal	2.97	314.82
16.00	MAT	Cottonseed Hulls	35.00	560.00
648.87	SER	Cubic Feet	2.48	1,609.20
1,196.50	SER	Ton Mileage	2.60	3,110.91
1.00	SER	Port Collar	2,483.59	2,483.59
45.00	SER	Pump Truck Mileage	7.70	346.50
45.00	SER	Light Vehicle Mileage	4.40	198.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Paul Beaver		
1.00	OPER ASSIST	Kevin Ryan		

INT

Port Collar
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

\$ 4,048.88

ONLY IF PAID ON OR BEFORE
Jul 15, 2013

Subtotal	15,572.62
Sales Tax	649.43
Total Invoice Amount	16,222.05
Payment/Credit Applied	
TOTAL	16,222.05

DW

ALLIED OIL & GAS SERVICES, LLC 060315

Federal Tax I.D. # 20-8651475

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

SERVICE POINT
Bakley

DATE <i>6/20/13</i>	SEC. <i>9</i>	TWP. <i>1</i>	RANGE <i>34</i>	CALLED OUT	ON LOCATION	JOB START <i>10:00 AM</i>	JOB FINISH <i>11:00 AM</i>
WELL # <i>Tucker</i>	WELL # <i>1-9</i>	LOCATION <i>Pence 1/2 N - Winto</i>	COUNTY <i>Scott</i>	STATE <i>Ks.</i>			

CONTRACTOR *Cheyenne*

TYPE OF JOB *Port Collar*

PIPE SIZE *5 1/2*

PIPE DEPTH *2432*

PIPE DEPTH *2432*

PIPE DEPTH *2432*

PIPE DEPTH *2432*

RES. MAX. MINIMUM

EAS. LINE SHOE JOINT

MENT LEFT IN CSG.

IRFS.

PLACEMENT *7.34*

OWNER *Same*

CEMENT

AMOUNT ORDERED *550 SKS 6 3/8 8% gel*

1/4" Flossal

1000"

COMMON *255 SKS @ \$17.90 \$4564.50*

POZMIX *170 SKS @ \$9.35 \$1589.50*

GBL *34 SKS @ \$23.40 \$795.60*

CHLORIDE @

ASC @

Flossal 100" @ \$2.92 \$292.00

Halls 800" @ \$35.00 \$28000.00

HANDLING *648.87 CF X @ \$2.48 \$1609.20*

MILEAGE *26.58 X 45 X @ \$2.60 \$3110.97*

TOTAL *\$12544.53*

EQUIPMENT

PUMP TRUCK CEMENTER *Darren Racette*

1/23-281 HELPER *Paul Beaver*

JLK TRUCK

540-287 DRIVER *Kevin Ryan*

JLK TRUCK

DRIVER

REMARKS:

Pressure 1200" oper port collar mix

255 SKS cement circulated to Pit

100" Halls Pressure port collar

1200" Held Reverse Clean

Thank you.

ARGE TO: *Shakespeare*

REET

Y STATE ZIP

SERVICE

DEPTH OF JOB *2432*

PUMP TRUCK CHARGE *\$2483.58*

EXTRA FOOTAGE @

MILEAGE *45 @ \$7.70 \$346.50*

MANIFOLD @

20 mileage @ \$4.40 \$198.00

TOTAL *\$3028.08*

PLUG & FLOAT EQUIPMENT

PLUG & FLOAT EQUIPMENT

PLUG & FLOAT EQUIPMENT

PLUG & FLOAT EQUIPMENT

PLUG & FLOAT EQUIPMENT

PLUG & FLOAT EQUIPMENT

TOTAL

Allied Oil & Gas Services, LLC.

I am hereby requested to rent cementing equipment

furnish cementer and helper(s) to assist owner or

tractor to do work as is listed. The above work was

done to satisfaction and supervision of owner agent or

tractor. I have read and understand the "GENERAL

TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

SIGNATURE *John Dawson*

SALES TAX (If Any)

TOTAL CHARGES *15,572.62*

DISCOUNT *4,048.88* IF PAID IN 30 DAYS

11,523.73 Net.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 51756

DST#: 1

ATTN: Tim Priest

Test Start: 2013.06.05 @ 16:40:00

GENERAL INFORMATION:

Formation: **LKC 'E-F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:01:00

Time Test Ended: 23:42:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 4129.00 ft (KB) To 4155.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4155.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 46.45 psig @ 4132.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.05

End Date:

2013.06.05

Last Calib.:

2013.06.05

Start Time: 16:40:02

End Time:

23:42:20

Time On Btm:

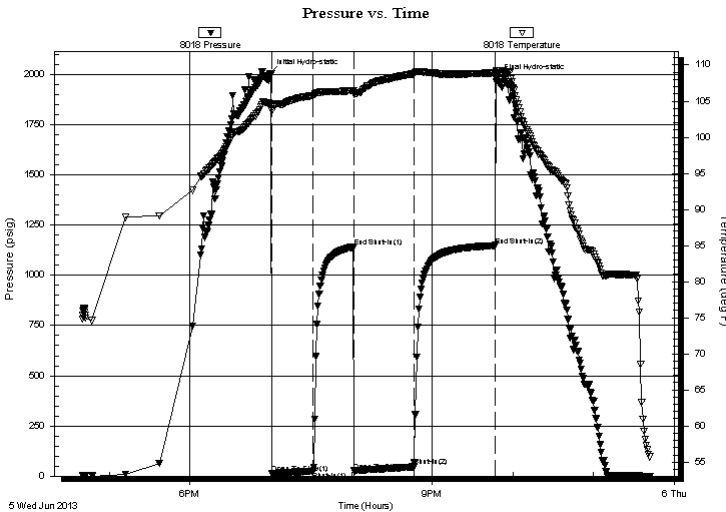
2013.06.05 @ 18:59:10

Time Off Btm:

2013.06.05 @ 21:48:20

TEST COMMENT: 1" Blow .
No return.
1" Blow .
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.98	104.69	Initial Hydro-static
2	14.06	103.67	Open To Flow (1)
33	25.25	105.80	Shut-In(1)
63	1141.52	106.46	End Shut-In(1)
63	26.23	105.95	Open To Flow (2)
108	46.45	108.77	Shut-In(2)
168	1148.18	108.92	End Shut-In(2)
170	1980.08	109.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud w / oil spots	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 51756

DST#: 1

ATTN: Tim Priest

Test Start: 2013.06.05 @ 16:40:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Mud w / oil spots	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

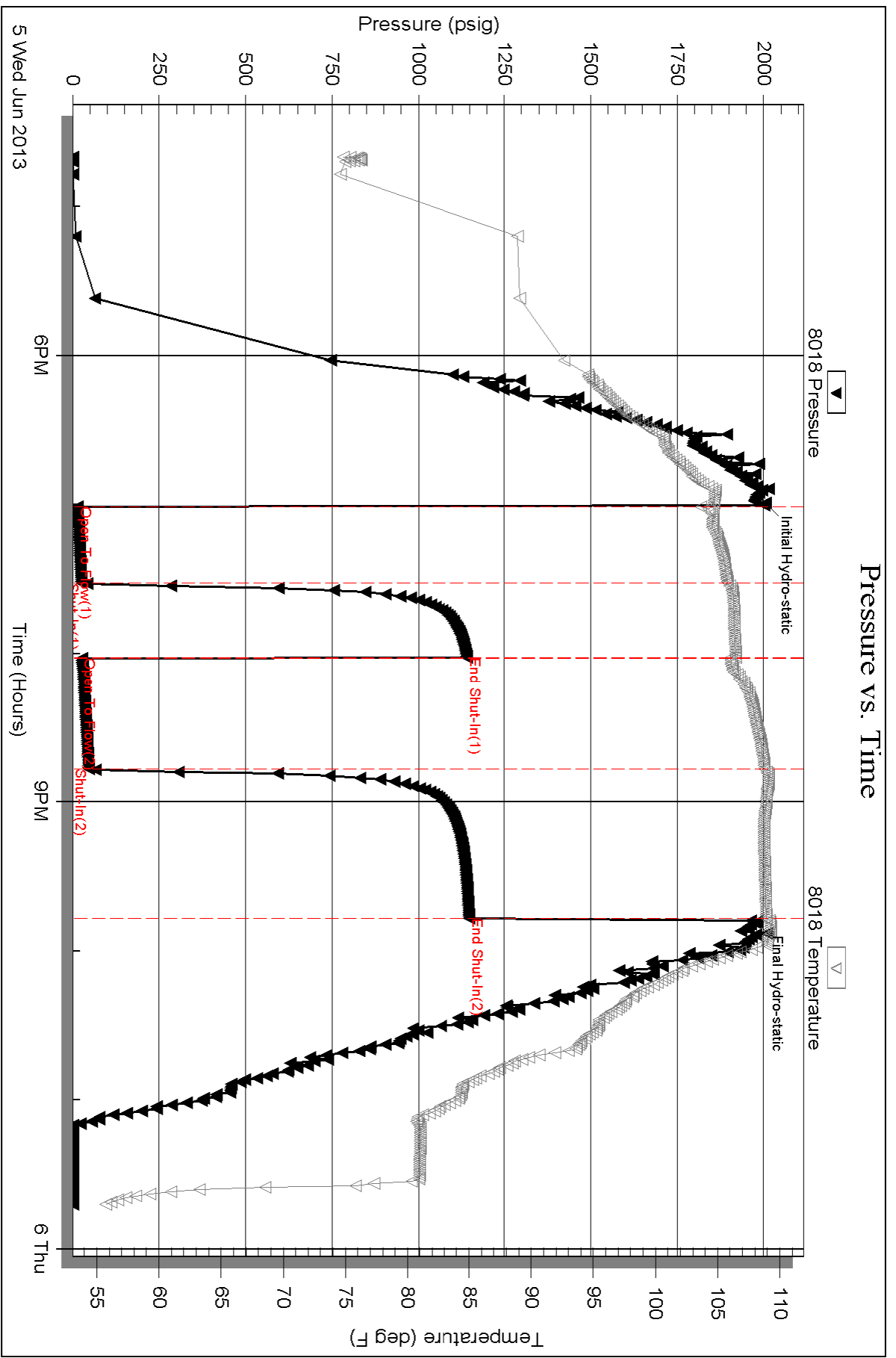
Serial #: 8018

Inside

Shakespeare Oil Co., Inc.

Tucker #1-9

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 51757

DST#: 2

ATTN: Tim Priest

Test Start: 2013.06.06 @ 14:04:00

GENERAL INFORMATION:

Formation: **LKC 'I'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:39:30
 Time Test Ended: 20:57:30
 Interval: **4250.00 ft (KB) To 4280.00 ft (KB) (TVD)**
 Total Depth: 4280.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 3140.00 ft (KB)
 3130.00 ft (CF)
 KB to GR/CF: 10.00 ft

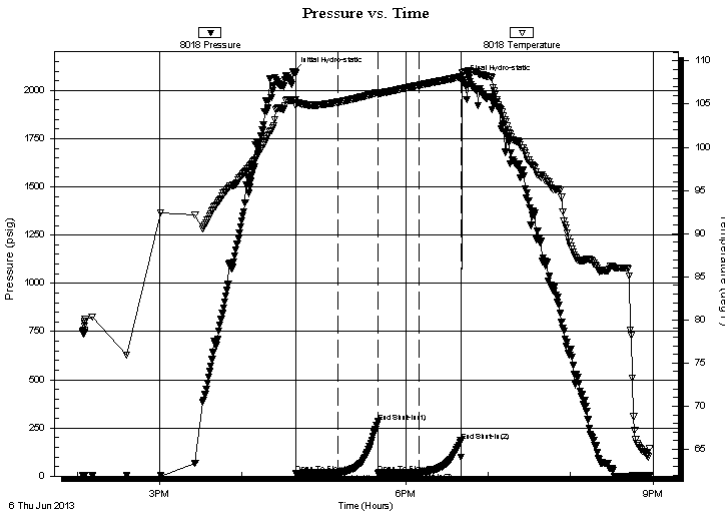
Serial #: 8018

Inside

Press @ Run Depth: 17.94 psig @ 4253.00 ft (KB)
 Start Date: 2013.06.06 End Date: 2013.06.06
 Start Time: 14:04:02 End Time: 20:57:30
 Capacity: 8000.00 psig
 Last Calib.: 2013.06.06
 Time On Btm: 2013.06.06 @ 16:37:50
 Time Off Btm: 2013.06.06 @ 18:41:09

TEST COMMENT: Surface blow died @ 20 min.
 No return.
 No blow
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2096.52	105.46	Initial Hydro-static
2	15.75	104.83	Open To Flow (1)
32	16.46	105.21	Shut-In(1)
62	282.32	106.35	End Shut-In(1)
62	16.13	106.15	Open To Flow (2)
92	17.94	107.19	Shut-In(2)
122	182.77	108.18	End Shut-In(2)
124	2054.44	108.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	OSM 100m	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.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 51757

DST#: 2

ATTN: Tim Priest

Test Start: 2013.06.06 @ 14:04:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	OSM 100m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

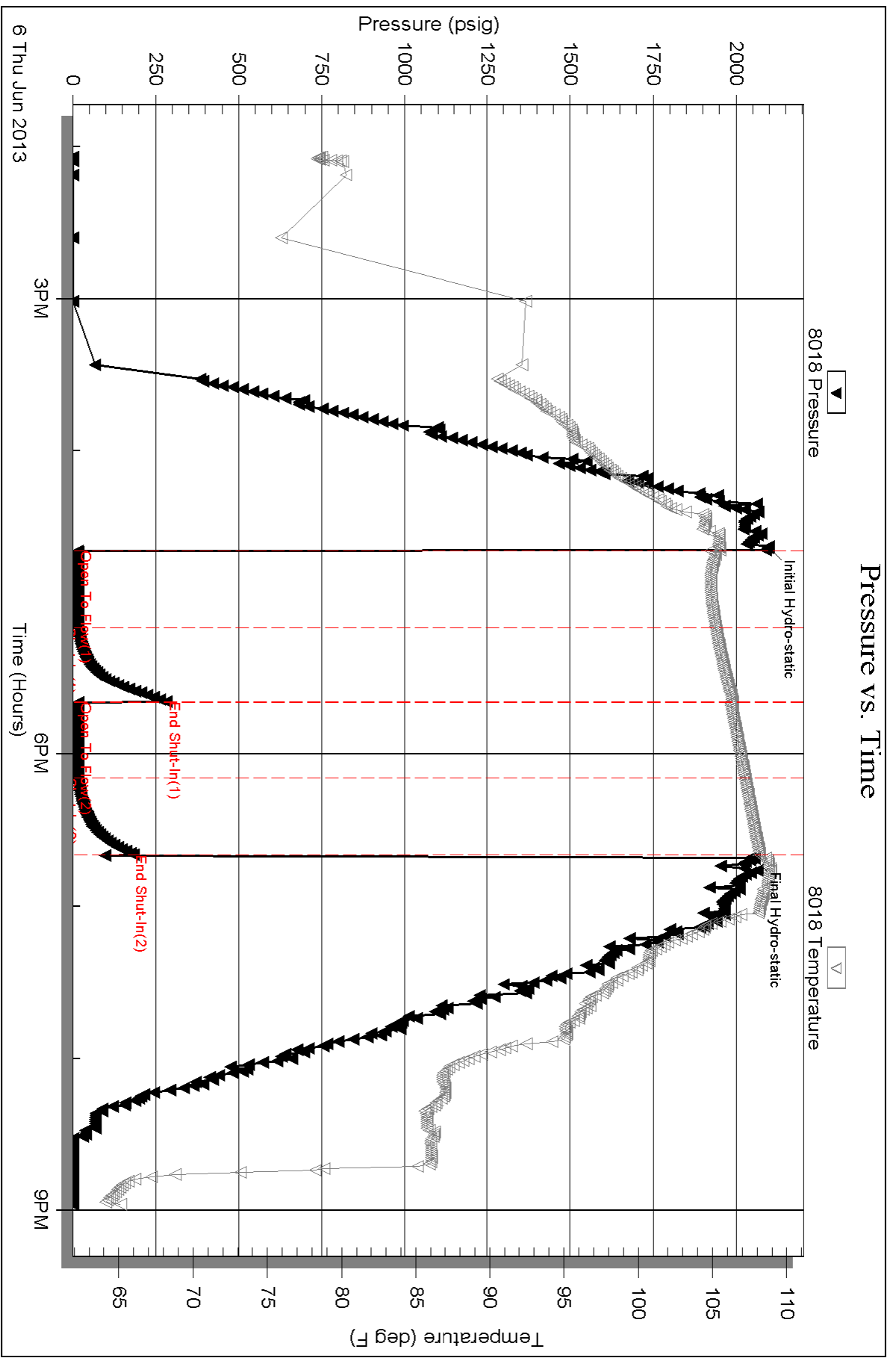
Serial #: 8018

Inside

Shakespeare Oil Co., Inc.

Tucker #1-9

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 51758

DST#: 3

ATTN: Tim Priest

Test Start: 2013.06.07 @ 05:45:00

GENERAL INFORMATION:

Formation: **LKC 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:30:50

Time Test Ended: 12:19:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4275.00 ft (KB) To 4305.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4305.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 334.19 psig @ 4278.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.07

End Date: 2013.06.07

Last Calib.: 2013.06.07

Start Time: 05:45:02

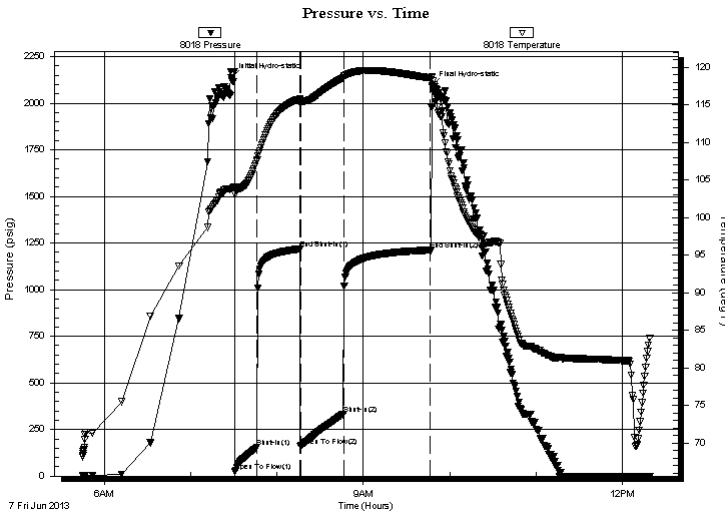
End Time: 12:19:10

Time On Btm: 2013.06.07 @ 07:28:20

Time Off Btm: 2013.06.07 @ 09:47:40

TEST COMMENT: B.O.B. @ 9 min.
No return.
B.O.B. @ 9 min.
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.58	103.79	Initial Hydro-static
3	24.87	103.08	Open To Flow (1)
18	155.44	107.62	Shut-In(1)
48	1217.79	115.73	End Shut-In(1)
48	159.56	115.21	Open To Flow (2)
78	334.19	118.56	Shut-In(2)
138	1212.21	118.56	End Shut-In(2)
140	2092.33	118.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
486.00	W 100w	5.72
183.00	WM 45w 55m	2.57
30.00	OSM 100m	0.42

* 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.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 51758

DST#: 3

ATTN: Tim Priest

Test Start: 2013.06.07 @ 05:45:00

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:

50000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
486.00	W 100w	5.724
183.00	WM 45w 55m	2.567
30.00	OSM 100m	0.421

Total Length: 699.00 ft Total Volume: 8.712 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .145 @ 75 Degrees F = 50000 PPM.

Serial #: 8018

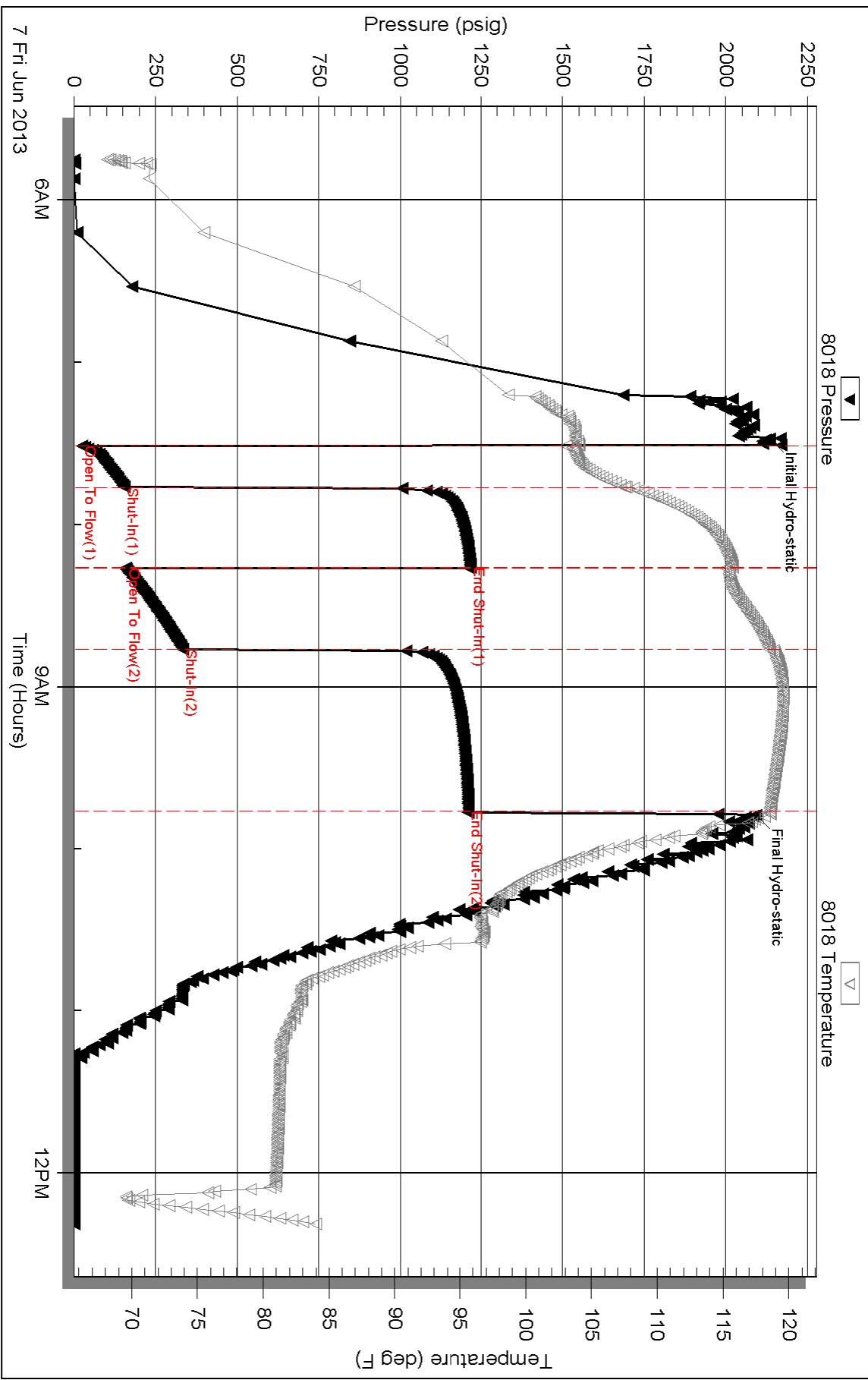
Inside

Shakespeare Oil Co., Inc.

Tucker #1-9

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51758

Printed: 2013.06.07 @ 13:01:23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 53301

DST#: 4

ATTN: Tim Priest

Test Start: 2013.06.08 @ 13:14:00

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:18:30

Time Test Ended: 19:25:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 62

Interval: 4411.00 ft (KB) To 4484.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4484.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press @ RunDepth: 32.48 psig @ 4416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.08

End Date: 2013.06.08

Last Calib.: 2013.06.08

Start Time: 13:14:05

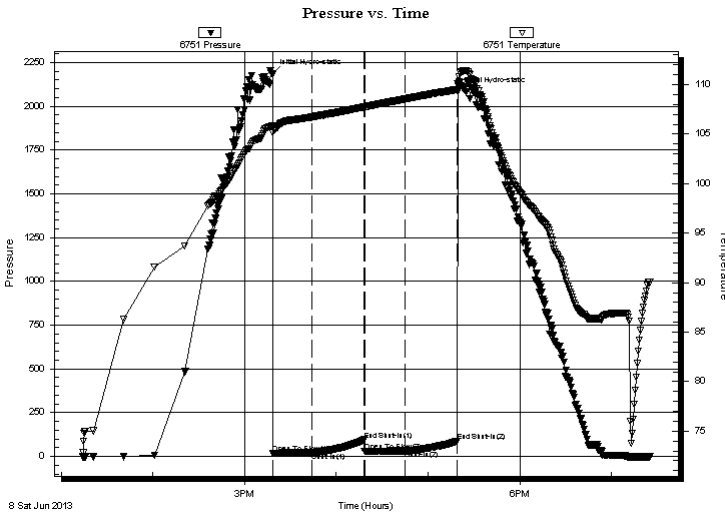
End Time: 19:24:59

Time On Btm: 2013.06.08 @ 15:18:10

Time Off Btm: 2013.06.08 @ 17:19:20

TEST COMMENT: IF: 1 Inch blow
IS: No return
FF: No blow
FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.41	105.80	Initial Hydro-static
1	16.59	105.11	Open To Flow (1)
26	24.20	106.72	Shut-In(1)
60	94.69	107.74	End Shut-In(1)
61	28.58	107.72	Open To Flow (2)
87	32.48	108.54	Shut-In(2)
121	86.69	109.51	End Shut-In(2)
122	2085.44	110.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean oil	0.02
25.00	Ocm 30o 70m	0.12

* 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.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 53301

DST#: 4

ATTN: Tim Priest

Test Start: 2013.06.08 @ 13:14:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Clean oil	0.025
25.00	Ocm 30o 70m	0.123

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

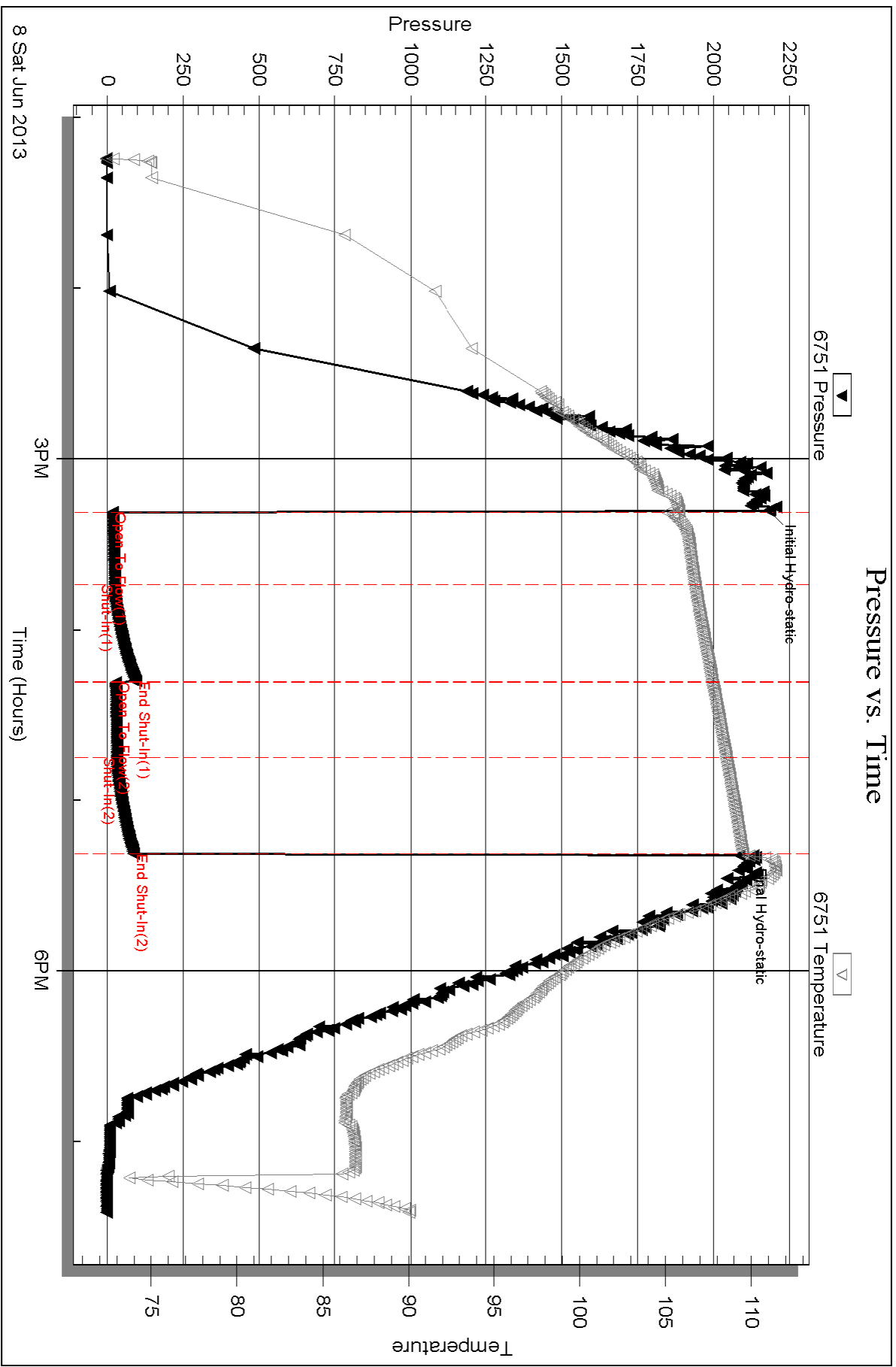
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 53302

DST#: 5

ATTN: Tim Priest

Test Start: 2013.06.09 @ 02:31:00

GENERAL INFORMATION:

Formation: **Marmaton c**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:44:30

Time Test Ended: 09:53:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 62

Interval: 4486.00 ft (KB) To 4512.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4512.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018 Inside

Press @ RunDepth: 66.18 psig @ 4494.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.09

End Date: 2013.06.09

Last Calib.: 1899.12.30

Start Time: 02:31:02

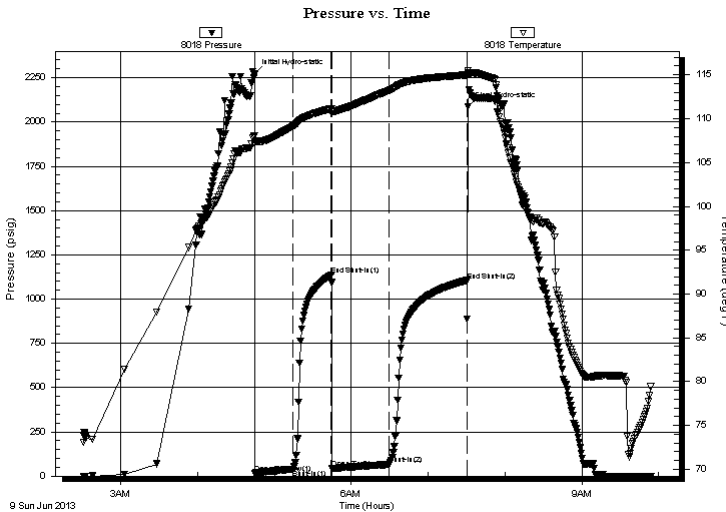
End Time: 09:53:40

Time On Btm: 2013.06.09 @ 04:44:20

Time Off Btm: 2013.06.09 @ 07:31:00

TEST COMMENT: IF: 1 3/4 Blow
IS: No return
FF: Weak surface blow after 5 min open- died 10 min later
FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.81	108.04	Initial Hydro-static
1	16.87	107.17	Open To Flow (1)
31	39.29	109.13	Shut-In(1)
60	1135.02	111.15	End Shut-In(1)
61	42.82	110.61	Open To Flow (2)
106	66.18	113.22	Shut-In(2)
166	1104.71	115.00	End Shut-In(2)
167	2088.35	115.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Ow m w oil specs 10o 10w 80m	0.07
30.00	Wm w oil specs 40w 60m	0.15

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.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 53302

DST#: 5

ATTN: Tim Priest

Test Start: 2013.06.09 @ 02:31:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	Ow m w oil specs 10o 10w 80m	0.074
30.00	Wm w oil specs 40w 60m	0.148

Total Length: 45.00 ft

Total Volume: 0.222 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

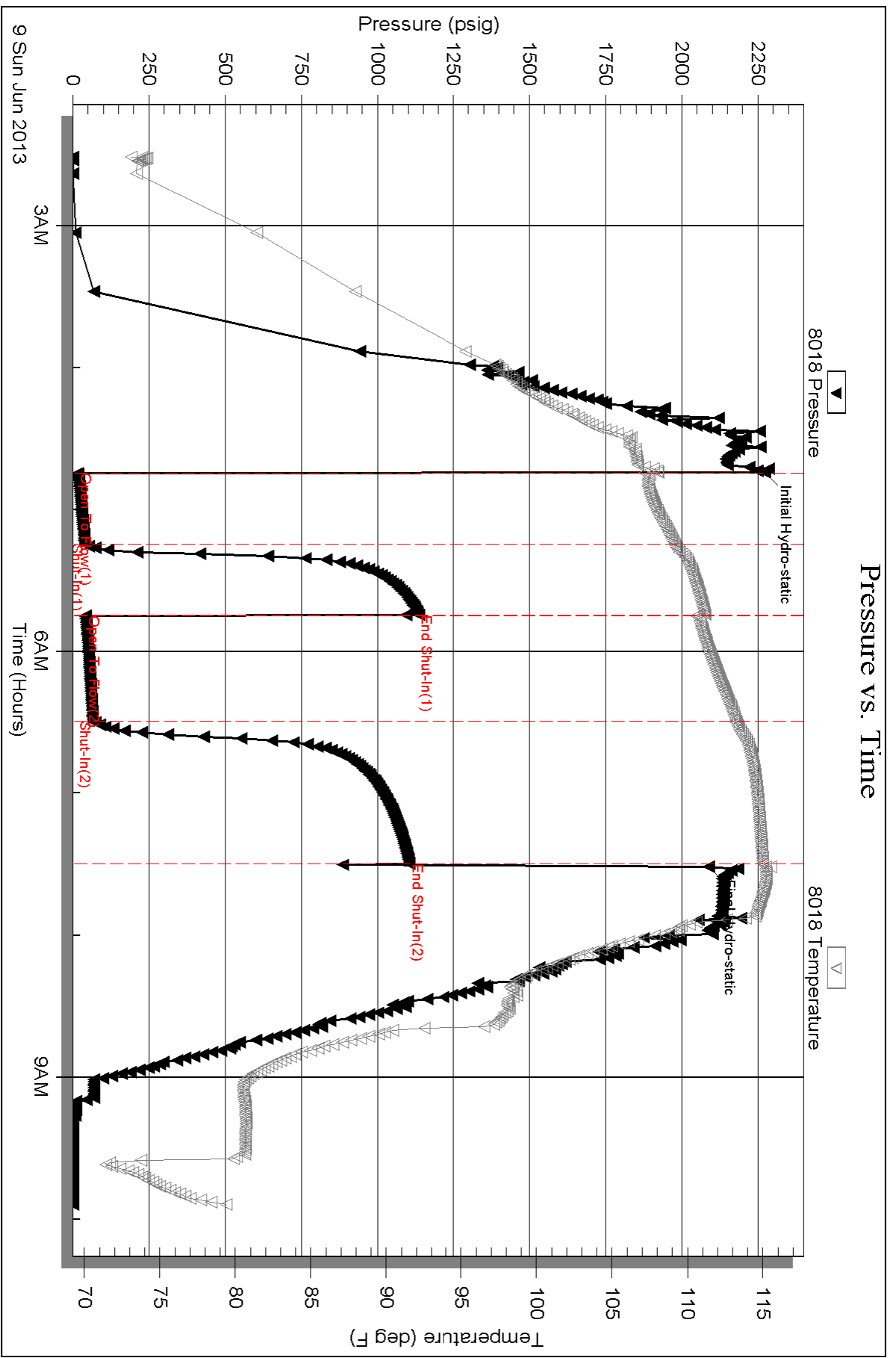
Serial #: 8018

Inside

Shakespeare Oil Co., Inc.

Tucker #1-9

DST Test Number: 5





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 53303

DST#: 6

ATTN: Tim Priest

Test Start: 2013.06.10 @ 00:41:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:12:40

Time Test Ended: 08:13:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 62

Interval: 4570.00 ft (KB) To 4604.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4604.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press @ Run Depth: 55.83 psig @ 4573.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.10

End Date: 2013.06.10

Last Calib.: 2013.06.10

Start Time: 00:41:05

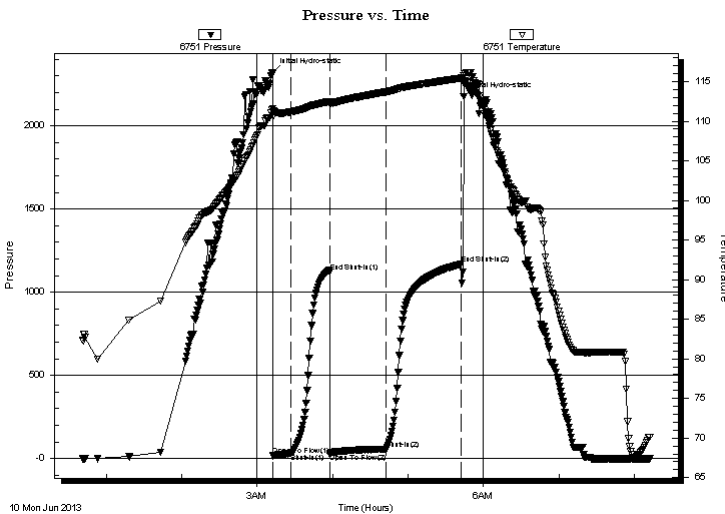
End Time: 08:12:59

Time On Btm: 2013.06.10 @ 03:12:30

Time Off Btm: 2013.06.10 @ 05:44:20

TEST COMMENT: IF: Bob in 11 min
IS: No return
FF: Bob in 1 min
FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2321.23	111.63	Initial Hydro-static
1	16.50	110.64	Open To Flow (1)
15	31.14	111.15	Shut-In(1)
45	1121.67	112.48	End Shut-In(1)
46	30.27	112.20	Open To Flow (2)
90	55.83	113.69	Shut-In(2)
150	1169.23	115.43	End Shut-In(2)
152	2176.49	115.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MCGO 20m 40g 40o	0.32
60.00	Go 10g 90o	0.34
0.00	595' 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.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 53303

DST#: 6

ATTN: Tim Priest

Test Start: 2013.06.10 @ 00:41:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	MCGO 20m 40g 40o	0.320
60.00	Go 10g 90o	0.341
0.00	595' GIP	0.000

Total Length: 125.00 ft Total Volume: 0.661 bbl

Num Fluid Samples: 0

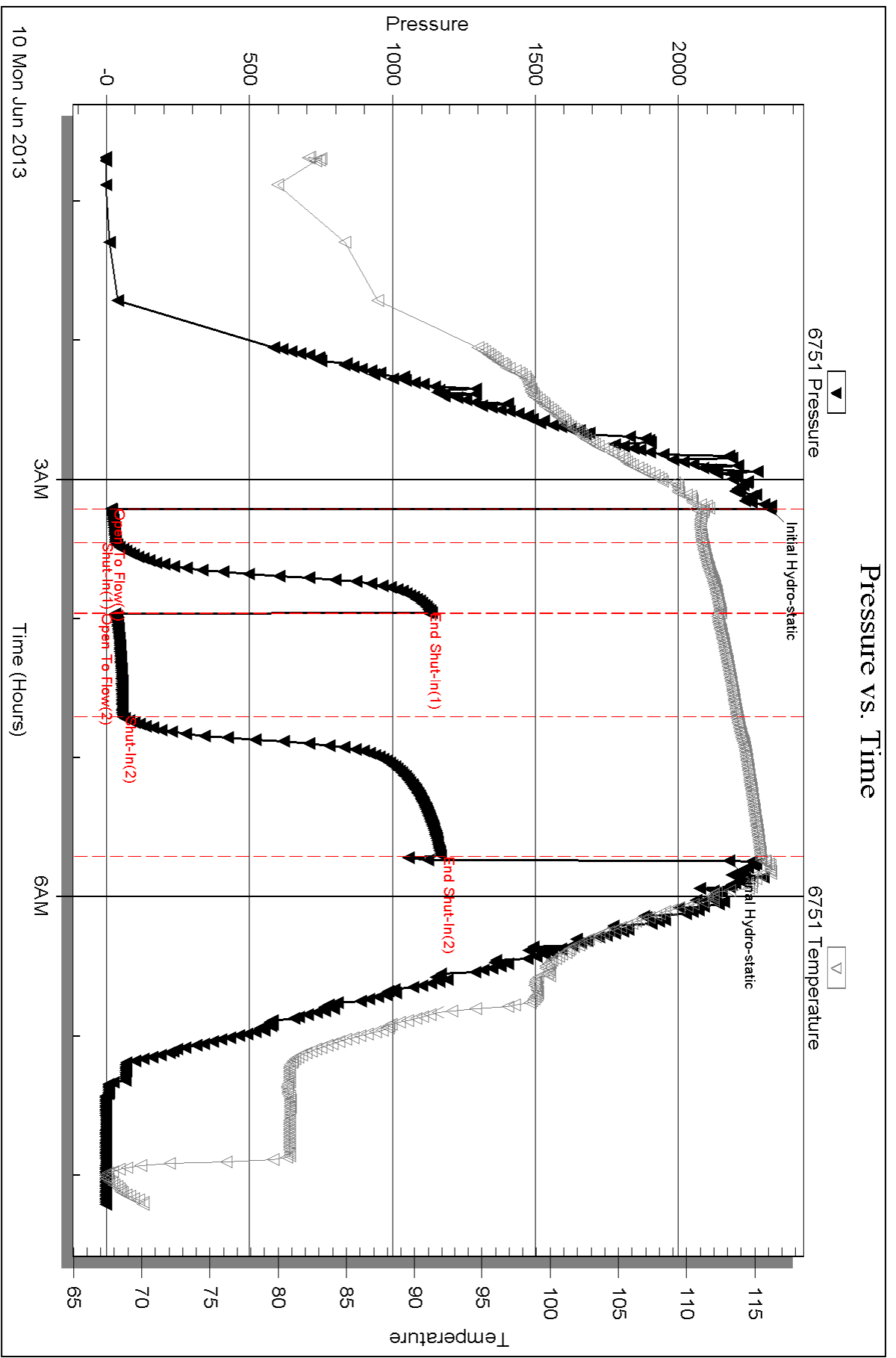
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 53304

DST#: 7

ATTN: Tim Priest

Test Start: 2013.06.11 @ 00:26:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:11:50

Time Test Ended: 09:47:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landall (R)

Unit No: 62

Interval: 4645.00 ft (KB) To 4720.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4720.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press @ RunDepth: 343.59 psig @ 4655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.11

End Date: 2013.06.11

Last Calib.: 2013.06.11

Start Time: 00:26:05

End Time: 09:47:50

Time On Btm: 2013.06.11 @ 03:11:30

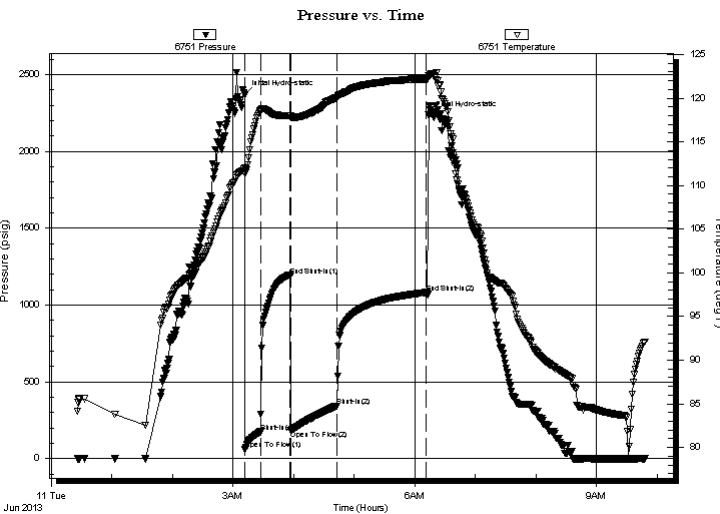
Time Off Btm: 2013.06.11 @ 06:13:30

TEST COMMENT: IF: Bob in 5 1/2 mins

IS: No return

FF: Bob in 6 mins

FSI: No return for first 10 min into shut in them surface blow for remainder of shut in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2366.08	112.05	Initial Hydro-static
1	61.12	111.40	Open To Flow (1)
16	173.87	118.51	Shut-In(1)
45	1188.89	118.02	End Shut-In(1)
46	183.31	117.74	Open To Flow (2)
92	343.59	120.09	Shut-In(2)
180	1081.06	122.20	End Shut-In(2)
182	2234.48	122.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	5o 10m 10 g 75w	1.43
120.00	10o 20w 30m 40g	1.68
120.00	10w 20o 30g 40m	1.68
120.00	10w 20m 30o 40g	1.68
245.00	10 m 30g 60o	3.44
235.00	Gip	3.30

* 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.

S9-16-34 Scott, KS

202 W. Main St.
Salem, IL 62881

Tucker #1-9

Job Ticket: 53304

DST#: 7

ATTN: Tim Priest

Test Start: 2013.06.11 @ 00:26:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	5o 10m 10 g 75w	1.432
120.00	10o 20w 30m 40g	1.683
120.00	10w 20o 30g 40m	1.683
120.00	10w 20m 30o 40g	1.683
245.00	10 m 30g 60o	3.437
235.00	Gip	3.296

Total Length: 1020.00 ft

Total Volume: 13.214 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

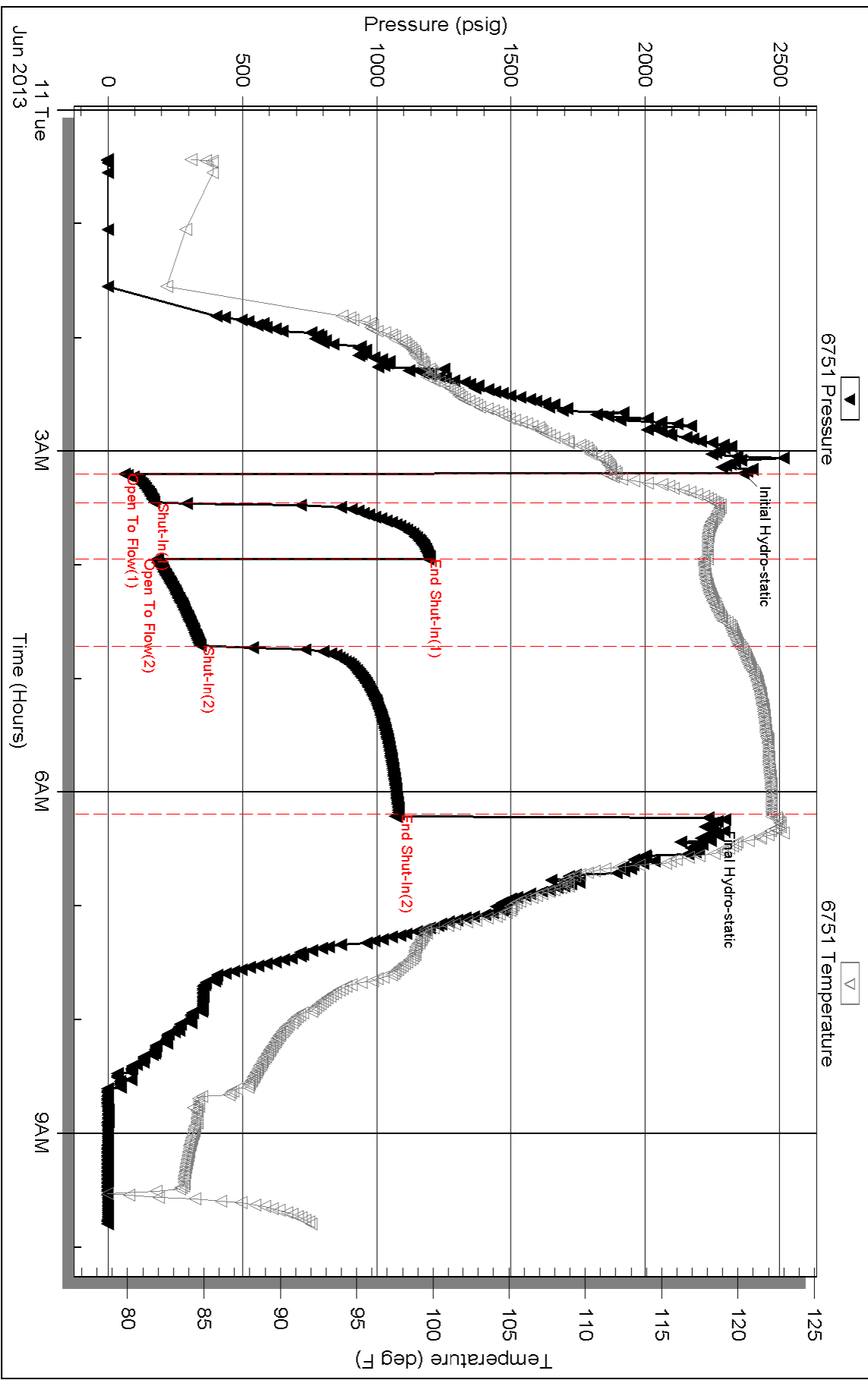
Serial #: 6751

Outside Shakespeare Oil Co., Inc.

Tucker #1-9

DST Test Number: 7

Pressure vs. Time



TIM PRIEST
Petroleum Geologist
(316)-213-6115

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY SHAKESPEARE OIL CO.
LEASE Tucker #1-9
FIELD Wildcat
LOCATION 400' FSL 600' FEL
SEC 9 TWSP 16S RGE 34W
COUNTY Scott STATE Kansas

ELEVATIONS

KB 3140'

DF _____

GL 3130'

Measurements Are All
From KB

CONTRACTOR HD Rig 2
SPUD 5-30-13 COMP 6-13-13
RTD 4864' LTD 4863'
MUD UP 3500' TYPE MUD Chemical

CASING

CONDUCTOR N/A

SURFACE 8-5/8" @ 264'

PRODUCTION 5 1/2" @ 486'

SAMPLES SAVED FROM 3800' to RTD
DRILLING TIME KEPT FROM 3800' to RTD
SAMPLES EXAMINED FROM 3800' to RTD
GEOLOGICAL SUPERVISION FROM 3800' to RTD
GEOLOGIST ON WELL Tim Priest

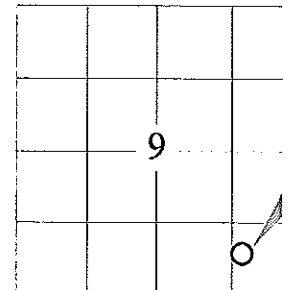
**ELECTRICAL
SURVEYS**

CND;D/SP;P.E.

Micro, sonic

By: Weatherford

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	2460 (+680)	NA
Heebner Shale	3984 (-844)	3986 (-846)
Lansing	4032 (-892)	4032 (-892)
Stark	4299 (-1259)	4304 (-1264)
BKC	4400 (-1260)	4396 (-1256)
Fort Scott	4576 (-1436)	4575 (-1435)
Cherokee Shale	4604 (-1464)	4606 (-1466)
Mississippian	4786 (-1646)	4787 (-1647)



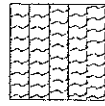
REMARKS Due to the results of DSTs, it was decided to set production casing to further test the well.

Respectfully Submitted,

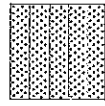
Tim Priest
Petroleum Geologist

API #15-171-20947-00-00

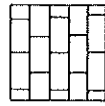
LEGEND



Anhydrite



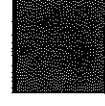
Sandstone



Limestone



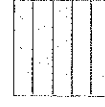
Shale



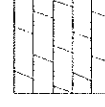
Carb Sh



Cherty LS



Chert



Dolomite

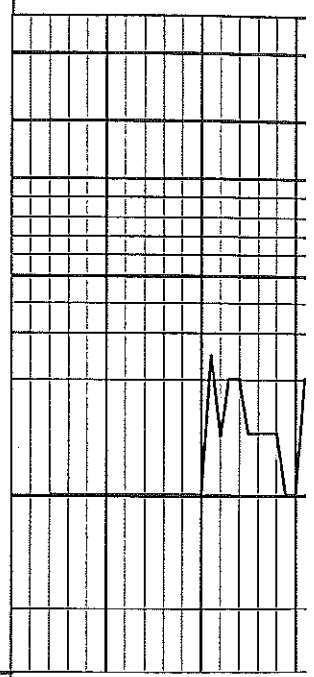
DEPTH

LITHOLOGY

DRILLING TIME IN
MINUTES PER FOOT

Rate of Penetration Decreases ↑

.5 1.0 5 10 15 20 30



SAMPLE DESCRIPTION

REMARKS

2450

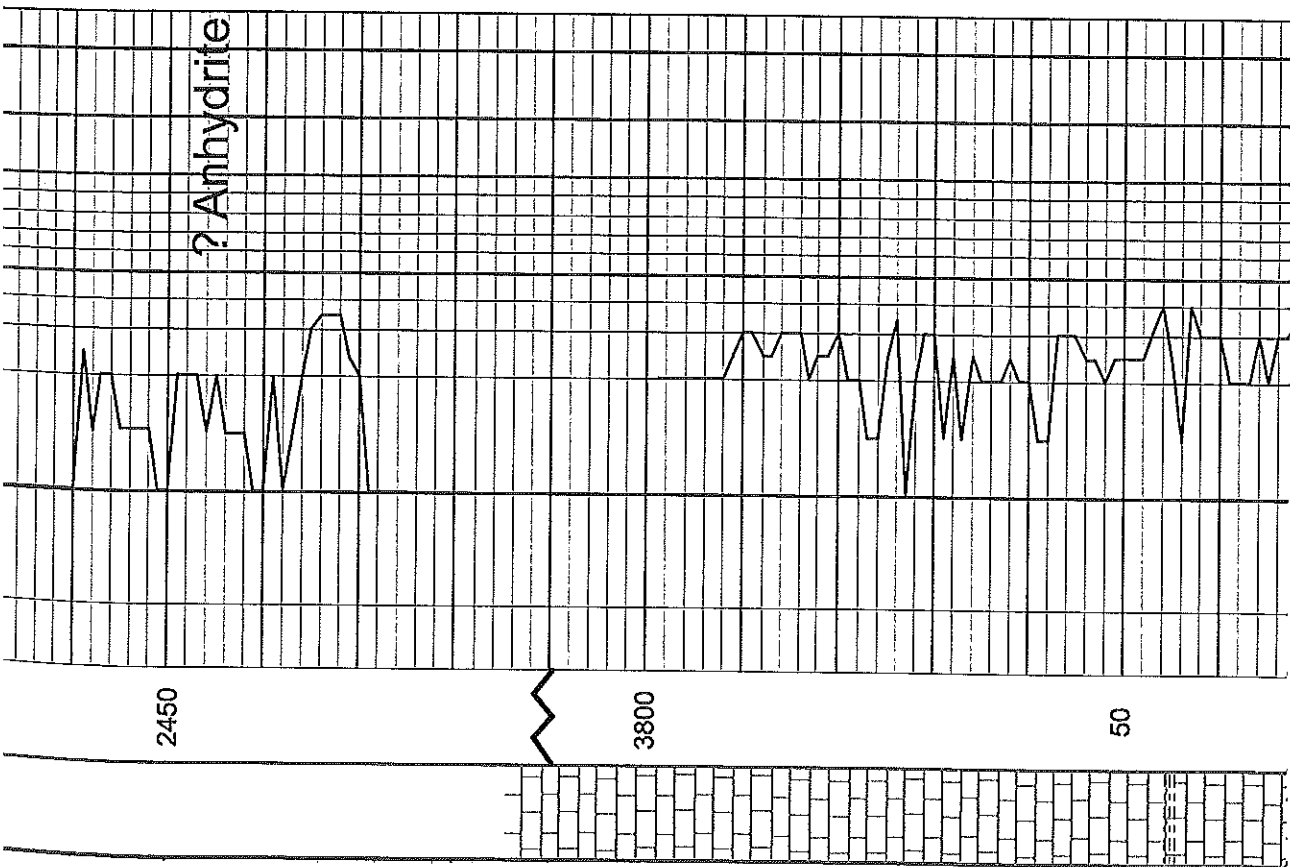
? Anhydrite

2450

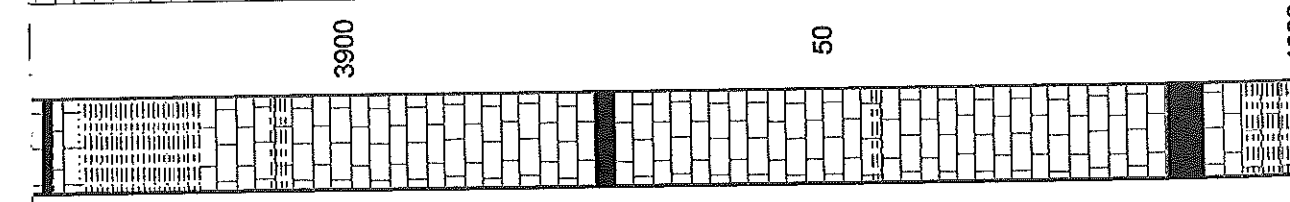
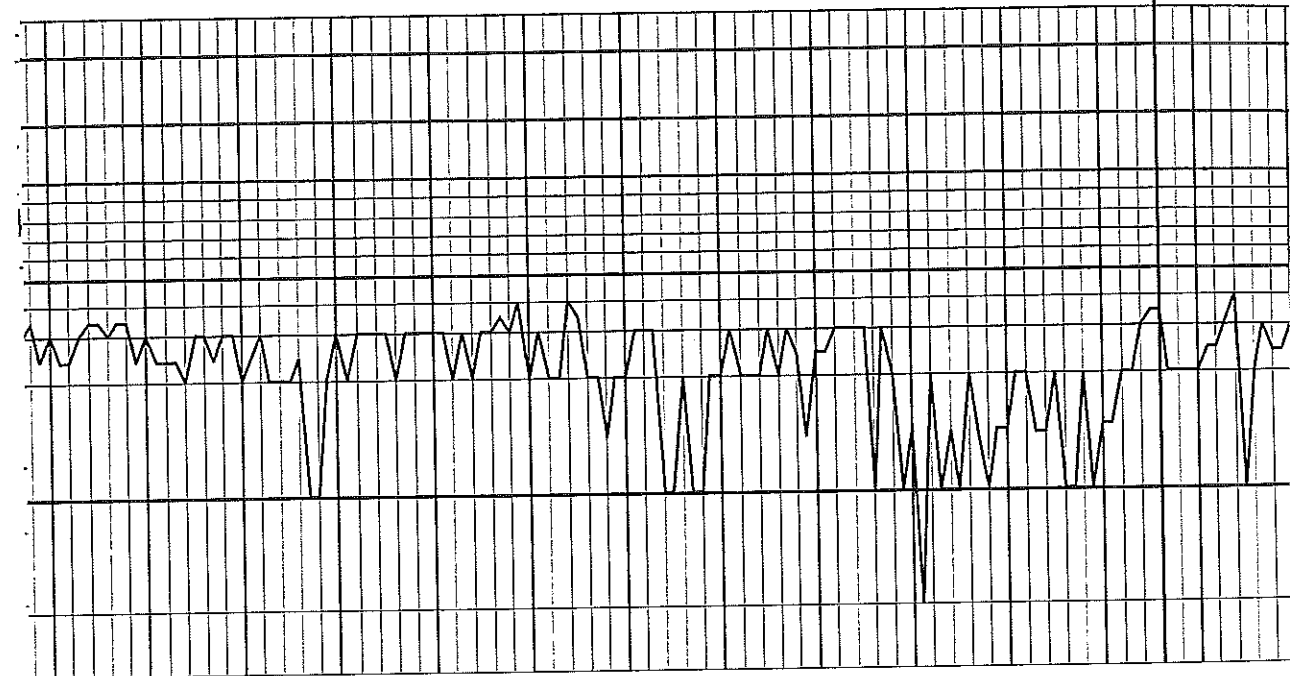
3800

50

Ls crm-gry mottd, fos, sil chky.

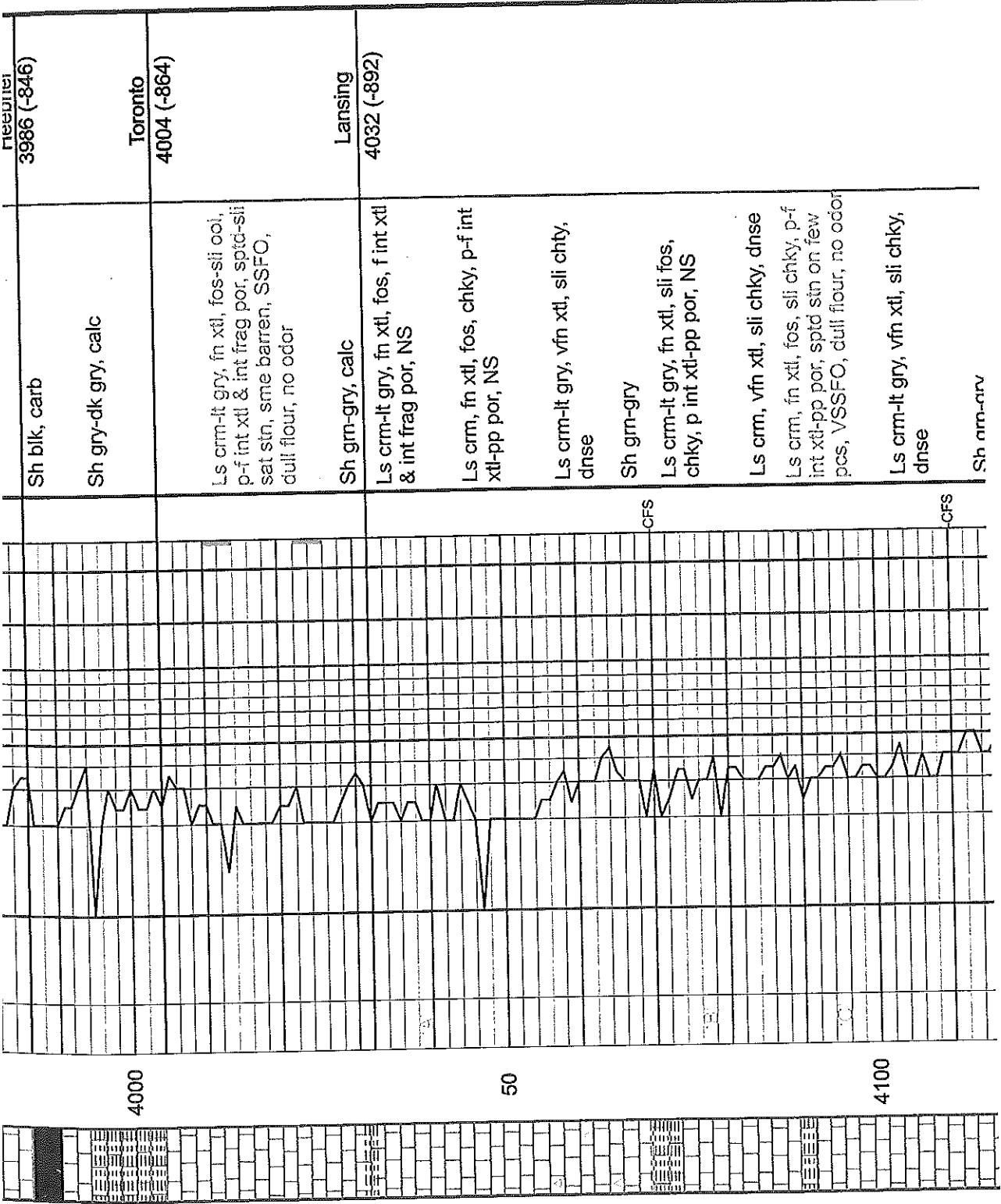


<p>p-1 111 xii-pp por, NS</p> <p>Sh blk, carb</p> <p>Sh/SS red-gry, fn-med gm, p sort, friable, NS</p> <p>Ls crm-tan-gry, fn xtl, arg in prt no vis por</p> <p>Ls tan, vfn xtl, sli fos, dnse</p> <p>Sh blk, carb</p> <p>Sh red-maroon</p> <p>Ls crm-lt gry, fos, chky, p-f int xtl & int frag por, NS</p> <p>Ls crm, vfn xtl, chty, dnse</p> <p>Ls crm-tan, fn xtl, fos, p-f int xtl-pp por, NS</p> <p>Ls crm-tan, fn xtl, fos, f int xtl-pp por, NS</p>	<p>Heebner 3986 (-846)</p> <p>Sh blk, carb</p> <p>Sh gry-dk gry, calc</p>
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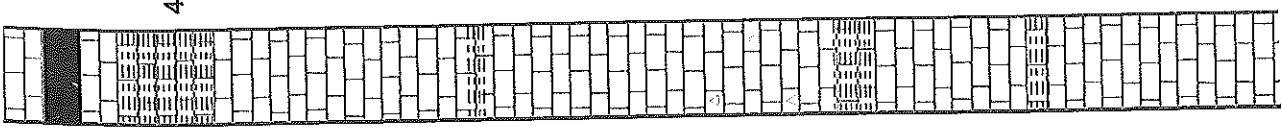


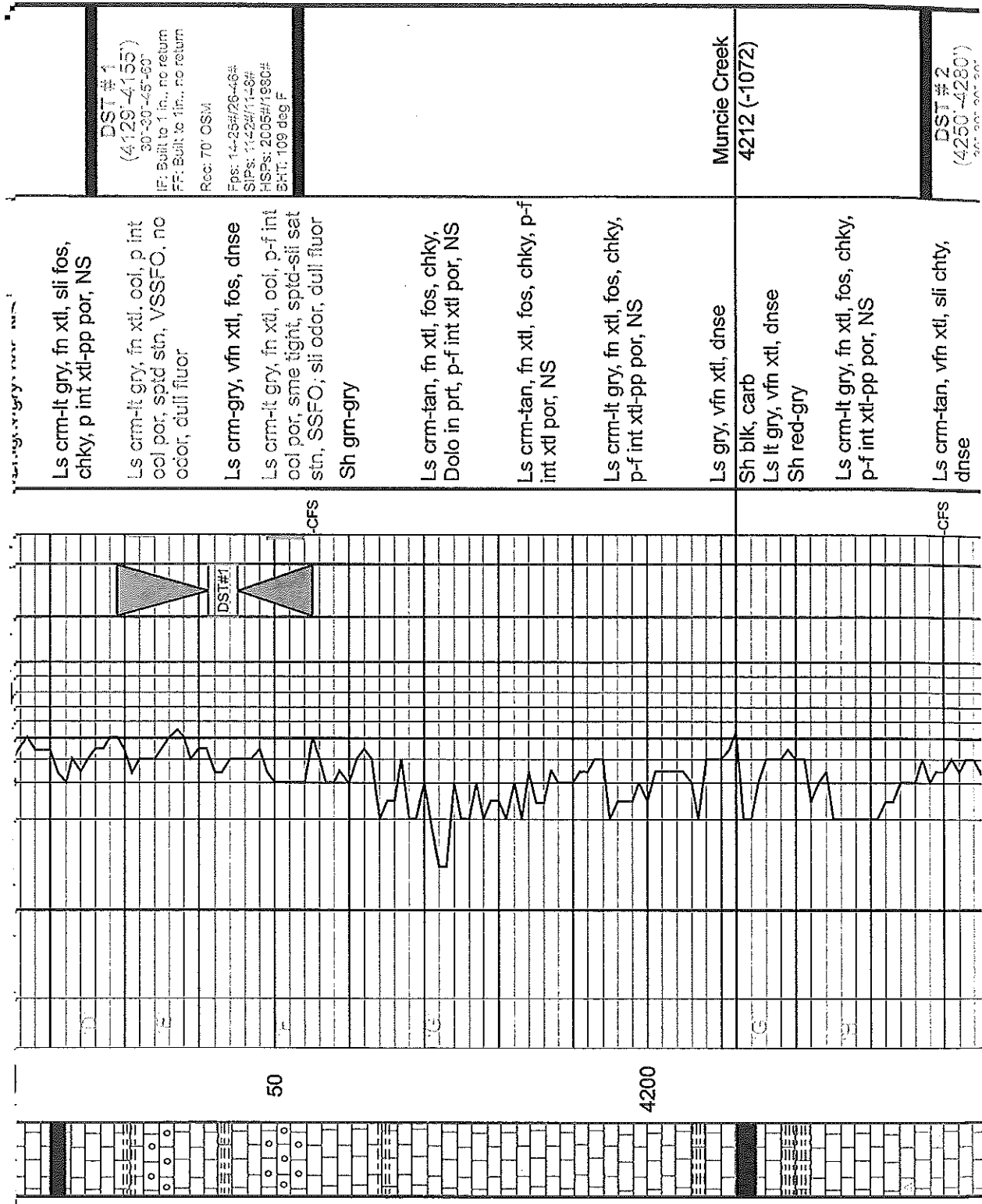
3900

50



Sh blk, carb	Receipt 3986 (-846)
Sh gry-dk gry, calc	Toronto 4004 (-864)
Ls crm-lt gry, fn xtl, fos-sli ool, p-f int xtl & int frag por, sptd-sli sat stn, sme barren, SSFO, dull flour, no odor	
Sh grn-gry, calc	Lansing 4032 (-892)
Ls crm-lt gry, fn xtl, fos, f int xtl & int frag por, NS	
Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS	
Ls crm-lt gry, vfn xtl, sli chty, dnse	
Sh grn-gry	
Ls crm-lt gry, fn xtl, sli fos, chky, p int xtl-pp por, NS	
Ls crm, vfn xtl, sli chky, dnse	
Ls crm, fn xtl, fos, sli chky, p-f int xtl-pp por, sptd stn on few pcs, VSSFO, dull flour, no odor	
Ls crm-lt gry, vfn xtl, sli chky, dnse	
Sh crm-cr	





DST #1
 (4129/-4155)
 30'-30'-45'-60'
 IF: Built to 1 in., no return
 FF: Built to 1 in., no return
 Rec: 70' OSM
 Fps: 14-25#/26-48#
 SPS: 11-22#/11-8#
 HSPs: 2005#/1990#
 BHT: 109 deg F

DST #2
 (4250/-4280)
 30'-30'-45'-60'

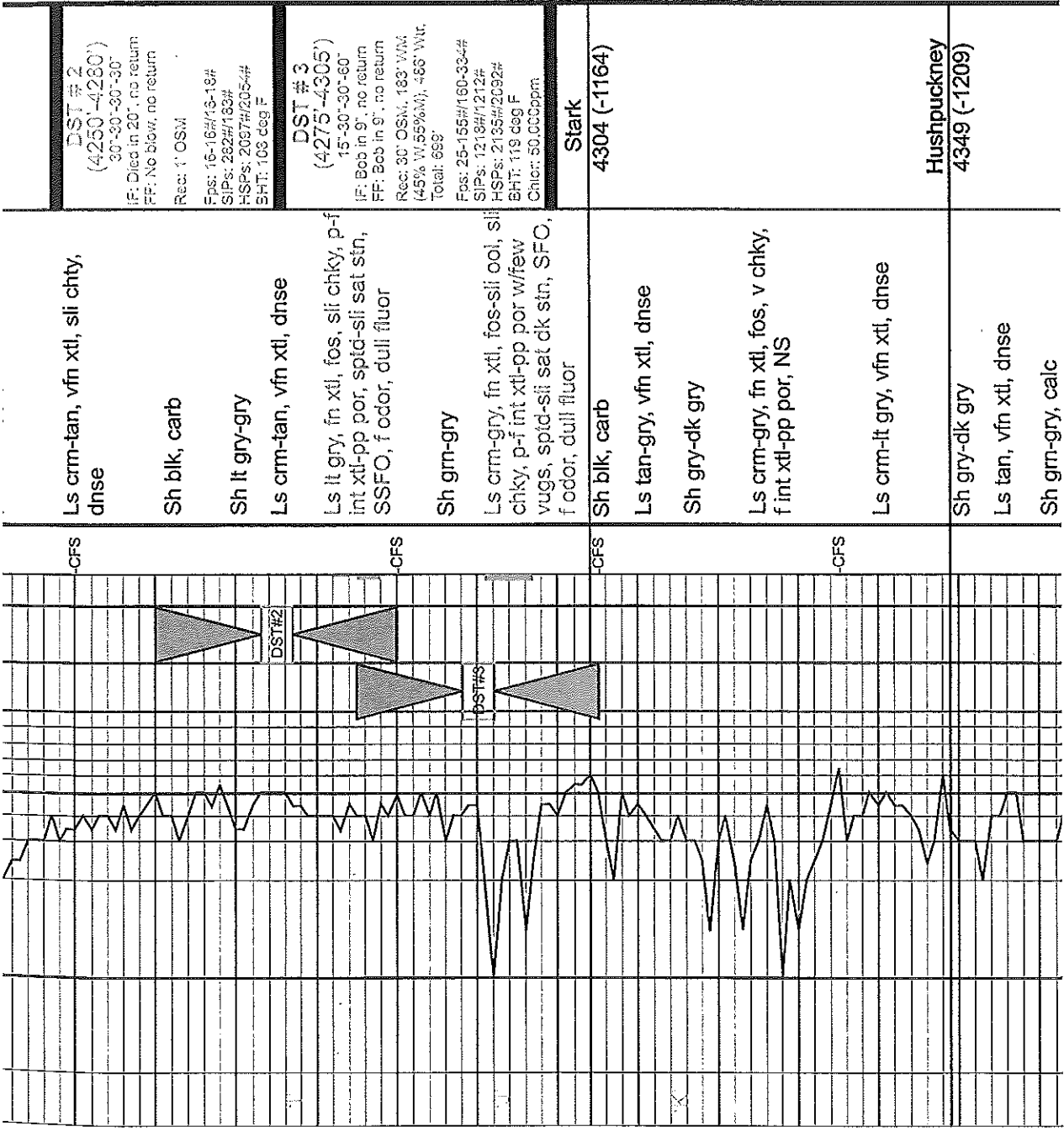
Ls crm-lt gry, fn xtl, sli fos, chky, p int xtl-pp por, NS
 Ls crm-lt gry, fn xtl, ool, p int ool por, spid stn, VSSFO, no odor, dull fluor
 Ls crm-gry, vfn xtl, fos, dnse
 Ls crm-lt gry, fn xtl, ool, p-f int ool por, sme tight, spid-sli sat stn, SSFO; sli odor, dull fluor
 Sh gm-gry
 Ls crm-tan, fn xtl, fos, chky, Dolo in prt, p-f int xtl por, NS
 Ls crm-tan, fn xtl, fos, chky, p-f int xtl por, NS
 Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Ls gry, vfn xtl, dnse
 Sh blk, carb
 Ls lt gry, vfn xtl, dnse
 Sh red-gry
 Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Ls crm-tan, vfn xtl, sli chty, dnse

-CFS

-CFS

50

4200



DST #2
(4250'-4280')
 IF: Died in 20', no return
 FF: No blow, no return
 Rec: 1' OSM
 Fps: 16-16#/13-13#
 SIPs: 282#/133#
 HSPs: 2097#/205-4#
 SHT: 103 deg F

DST #3
(4275'-4305')
 IF: Bob in 9', no return
 FF: Bob in 9', no return
 Rec: 30' OSM, 183' WMA
 (45% W.55%W), 466' Wtr.
 Total: 669'
 Fps: 25-155#/160-93-4#
 SIPs: 1218#/1212#
 HSPs: 2135#/2092#
 BHT: 119 deg F
 Chlor: 50.00ppm

Stark
4304 (-1164)

Hushpuckney
4349 (-1209)

Ls crm-tan, vfn xtl, sli chty,
 dnse
 Sh blk, carb
 Sh lt gry-gry
 Ls crm-tan, vfn xtl, dnse

Ls lt gry, fn xtl, fos, sli chky, p-f
 int xtl-pp por, spid-sli sat strn,
 SSFO, f odor, dull fluor
 Sh gm-gry
 Ls crm-gry, fn xtl, fos-sli ool, sli
 chky, p-f int xtl-pp por w/few
 vugs, spid-sli sat dk strn, SFO,
 f odor, dull fluor

Sh blk, carb
 Ls tan-gry, vfn xtl, dnse
 Sh gry-dk gry

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

Ls crm-lt gry, vfn xtl, dnse

Sh gry-dk gry
 Ls tan, vfn xtl, dnse
 Sh gm-gry, calc

-CFS

-CFS

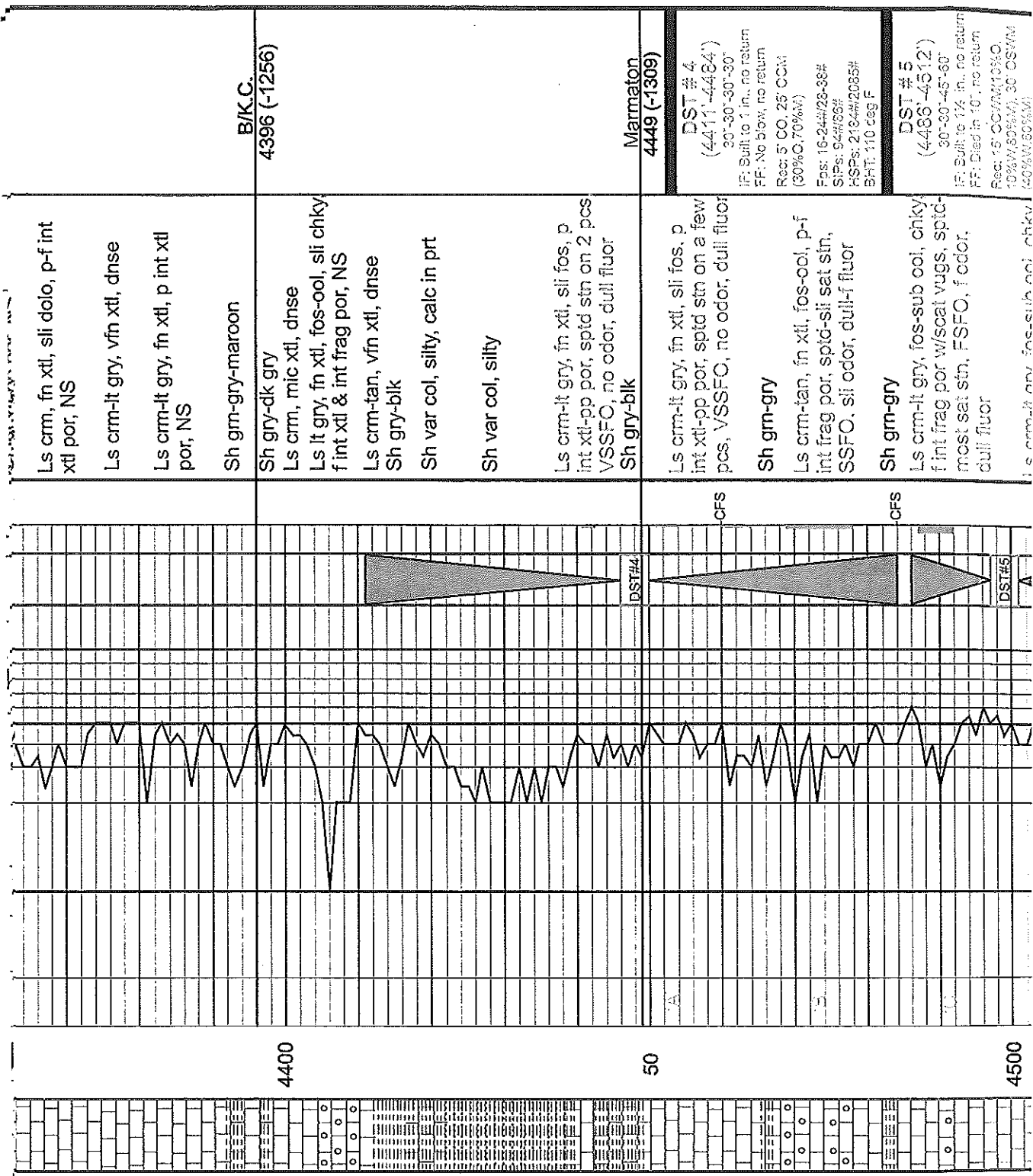
-CFS

-CFS

50

4300

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Ls crm, fn xtl, sli dolo, p-f int xtl por, NS

Ls crm-lt gry, vfn xtl, dnse

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

Sh gm-gry-maroon

Sh gry-dk gry

Ls crm, mic xtl, dnse

Ls lt gry, fn xtl, fos-ool, sli chky f int xtl & int frag por, NS

Ls crm-tan, vfn xtl, dnse

Sh gry-blk

Sh var col, silty, calc in prt

Sh var col, silty

Ls crm-lt gry, fn xtl, sli fos, p int xtl-pp por, sptd stn on 2 pcs VSSFO, no odor, dull fluor

Sh gry-blk

Ls crm-lt gry, fn xtl, sli fos, p int xtl-pp por, sptd stn on a few pcs, VSSFO, no odor, dull fluor

Sh gm-gry

Ls crm-tan, fn xtl, fos-ool, p-f int frag por, sptd-sli sat stn, SSFO, sli odor, dull-f fluor

Sh gm-gry

Ls crm-lt gry, fos-sub col, chky f int frag por w/soat vugs, sptd-most sat stn, FSFO, f odor, dull fluor

B/K.C.
4396 (-1256)

Marmaton
4449 (-1309)

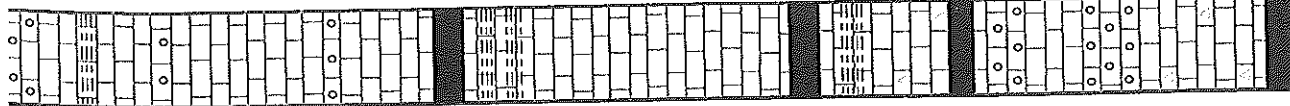
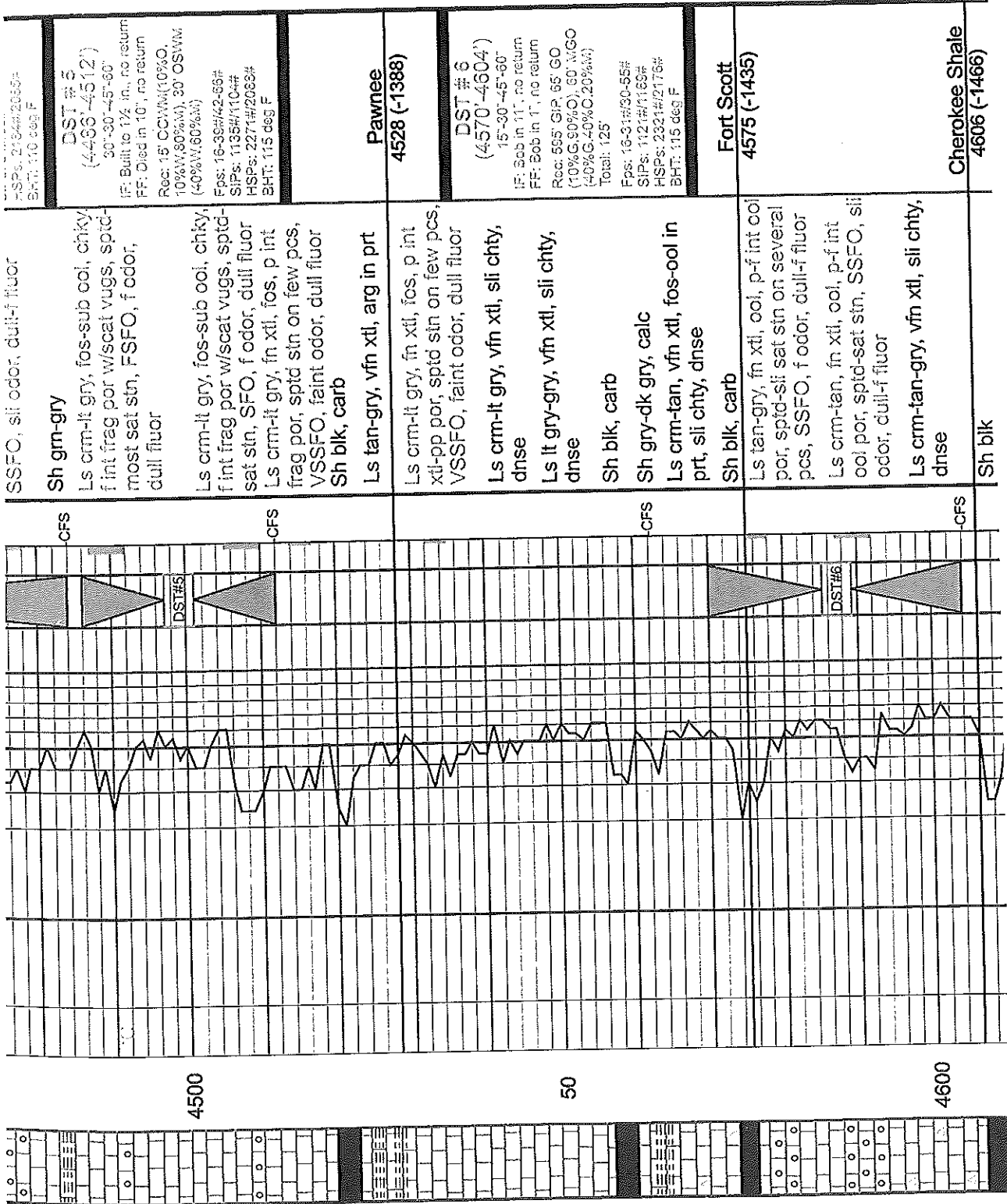
DST # 4
(4411-4484)
30'-30"-30"-30"
IF: Built to 1 in., no return
FF: No blow, no return
Recr: 5' CO, 25' OCM
(30% C, 70% M)

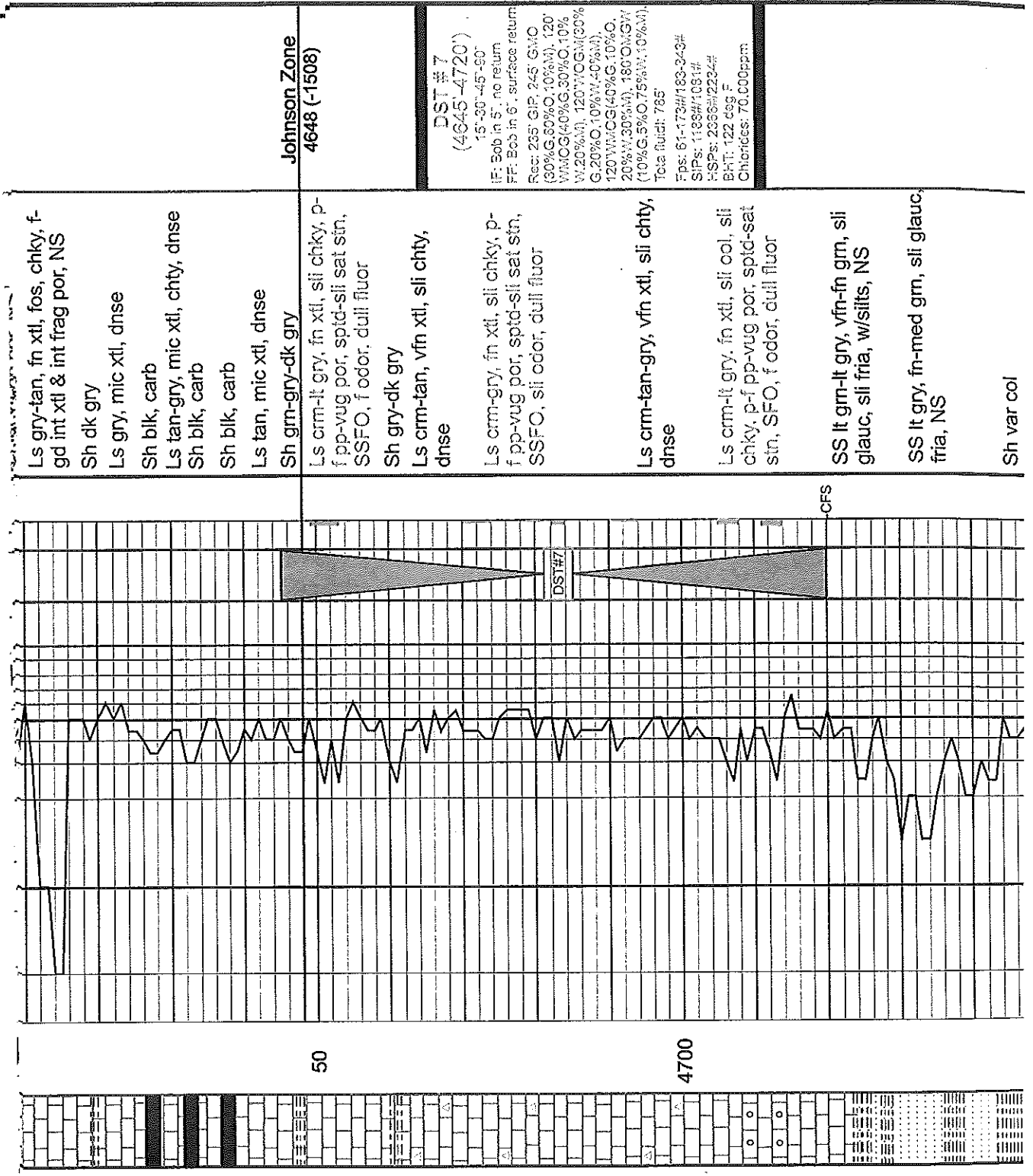
DST # 5
(4486-4512)
30'-30"-45'-60"
IF: Built to 1/8 in., no return
FF: Dried in 10', no return
Recr: 15' CC/M (10% O,
70% M), 30' CS/M
(40% M, 60% M)

4400

50

4500





**Johnson Zone
4648 (-1508)**

**DST#7
(4645-4720)**
 15'-30" 45'-50"
 IF: Bob in 5', no return
 FF: Bob in 6', surface return
 Rec: 235' GIP, 245' GWO
 (90%G, 60%O, 10%M), 120'
 WMOG(40%G, 30%O, 10%
 W, 20%M), 120' WOG(30%
 G, 20%O, 10%W, 40%M),
 120' WMOG(40%G, 10%O,
 20%W, 30%M), 180' OMOG
 (10%G, 5%O, 75%W, 10%M),
 Total fluid: 785'
 Fps: 61-173#/183-343#
 SPS: 1188#/1081#
 P-SPs: 2366#/2234#
 BHT: 122 deg F
 Chlorides: 70,000ppm

Ls gry-tan, fn xtl, fos, chky, f-
gd int xtl & int frag por, NS

Sh dk gry

Ls gry, mic xtl, dnse

Sh blk, carb

Ls tan-gry, mic xtl, chty, dnse

Sh blk, carb

Sh blk, carb

Ls tan, mic xtl, dnse

Sh gm-gry-dk gry

Ls crm-lt gry, fn xtl, sli chky, p-
f pp-vug por, spta-sli sat str,
SSFO, f odor, dull fluor

Sh gry-dk gry

Ls crm-tan, vfn xtl, sli chty,
dnse

Ls crm-gry, fn xtl, sli chky, p-
f pp-vug por, spta-sli sat str,
SSFO, sli odor, dull fluor

Ls crm-tan-gry, vfn xtl, sli chty,
dnse

Ls crm-lt gry, fn xtl, sli col, sli
chky, p-f pp-vug por, spta-sat
str, SFO, f odor, dull fluor

SS lt gm-lt gry, vfn-fn gm, sli
glauc, sli fria, w/silts, NS

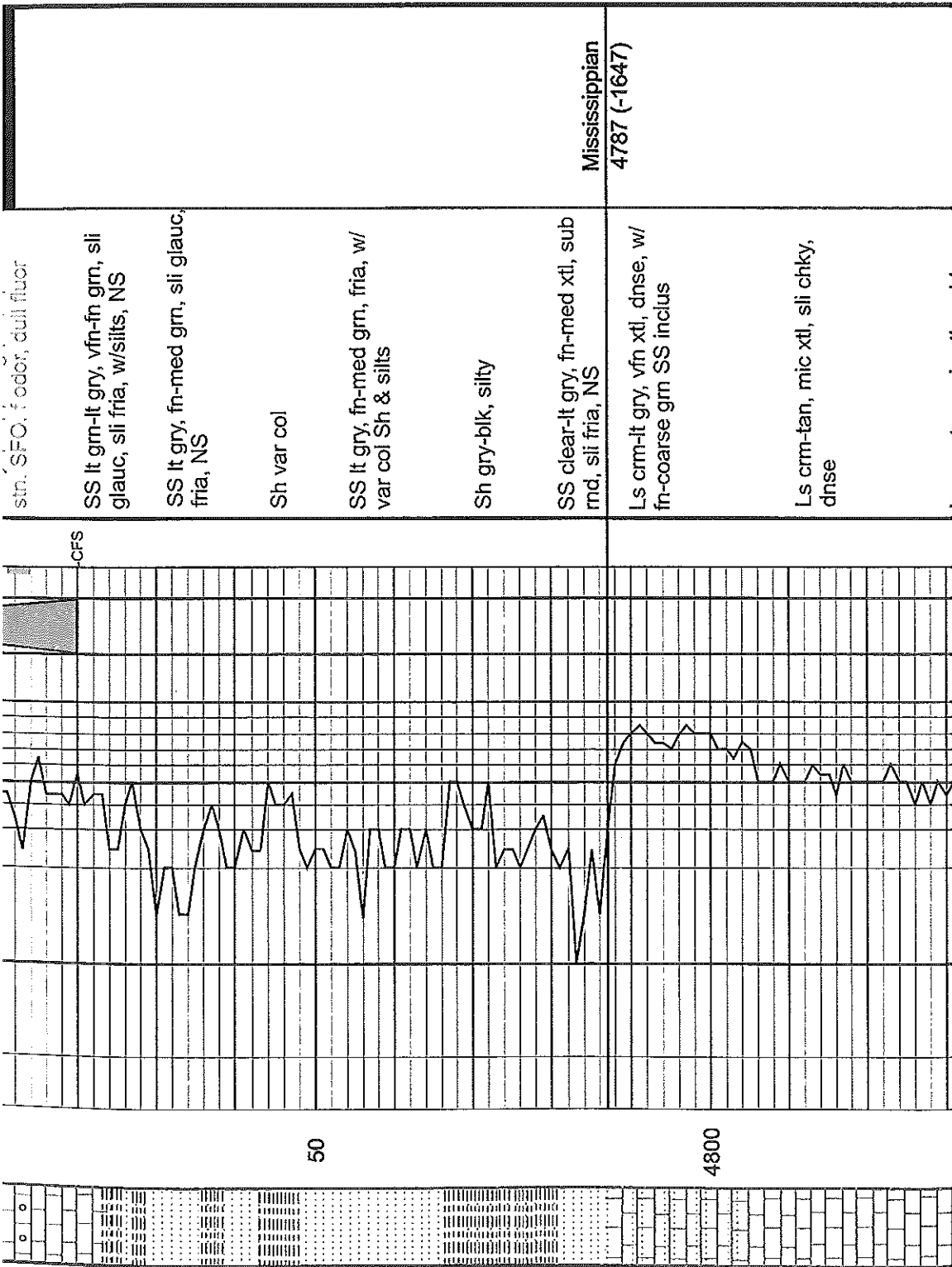
SS lt gry, fn-med gm, sli glauc,
fria, NS

Sh var col

50

4700

CFS



str. SFO. f odor, dull fluor

CFS

SS lt grn-lt gry, vfn-fn gm, sli glauc, sli fria, w/silts, NS

SS lt gry, fn-med gm, sli glauc, fria, NS

Sh var col

SS lt gry, fn-med gm, fria, w/ var col Sh & silts

Sh gry-blk, silty

SS clear-lt gry, fn-med xtl, sub rnd, sli fria, NS

Ls crm-lt gry, vfn xtl, dnse, w/ fn-coarse gm SS inclus

Ls crm-tan, mic xtl, sli chky, dnse

Mississippian
4787 (-1647)

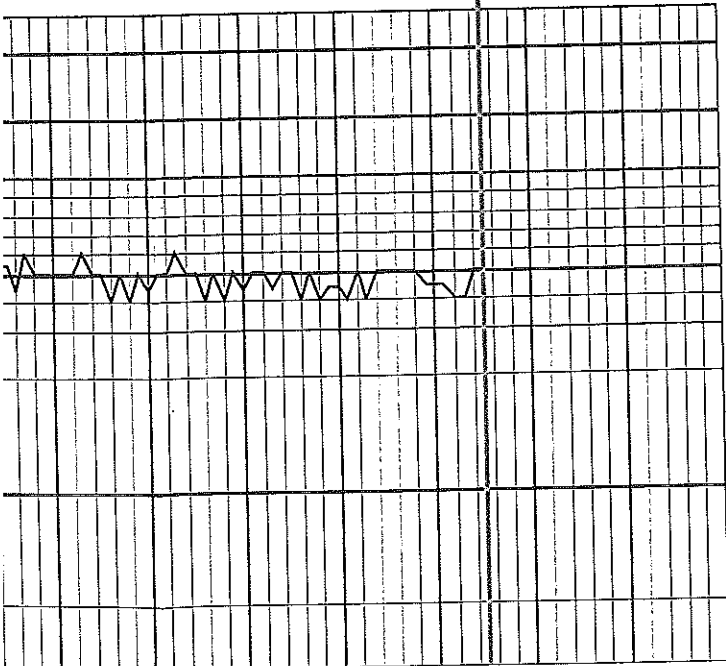
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4800

Ls crm-tan, mic xtl, v chky,
fn ool in prt, dnse

Ls crm-tan, vfn xtl, chky, sli
sandy, dnse

Total Depth
4865' (-1725)



50



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

July 23, 2013

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

Re: ACO1
API 15-171-20947-00-00
Tucker 1-9
SE/4 Sec.09-16S-34W
Scott 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