



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1186115
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: _____

1186115

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	Ward Petroleum Corporation
Well Name	Finegan 1-23
Doc ID	1186115

Tops

Name	Top	Datum
Sharon Sprgs	749	2653
Niobrara	934	2468
Fort Hays	1426	1976
Dakota	1845	1557
Blaine	2656	746
Stone Corral	3034	368
Neva	3563	-161
Foraker	3704	-302
Admire	3724	-322
Topeka	4039	-637
Heebner	4161	-759
Lansing	4216	-814
Stark	4424	-1022
Base KC	4490	-1088
Marmaton	4517	-1115
Pawnee	4604	-1202
Fort Scott	4640	-1238
Cherokee	4673	-1271
Atoka	4740	-1338
Morrow	4838	-1436
Mississippi	4929	-1527



DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corp.**

502 S. Fillmore
Enid OK 73703

ATTN: Larry Nicholson

Finegan #1-23

23-6s-38w Sherman,KS

Start Date: 2013.08.21 @ 23:02:00

End Date: 2013.08.22 @ 06:51:30

Job Ticket #: 53507 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.08.27 @ 10:39:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53507

DST#: 1

ATTN: Larry Nicholson

Test Start: 2013.08.21 @ 23:02:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:30

Time Test Ended: 06:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 66

Interval: 4226.00 ft (KB) To 4246.00 ft (KB) (TVD)

Reference Elevations: 3402.00 ft (KB)

Total Depth: 4266.00 ft (KB) (TVD)

3391.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press @ Run Depth: 217.80 psig @ 4227.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.21

End Date:

2013.08.22

Last Calib.:

2013.08.22

Start Time: 23:03:00

End Time:

06:51:30

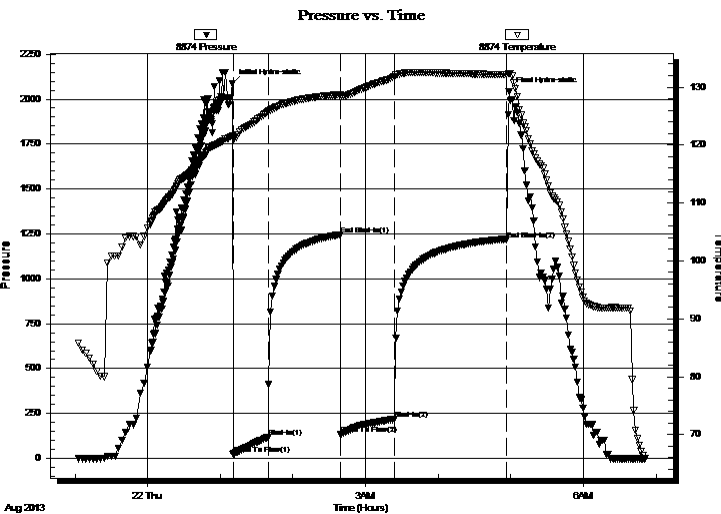
Time On Btm:

2013.08.22 @ 01:10:00

Time Off Btm:

2013.08.22 @ 04:58:30

TEST COMMENT: 30 IF - 1/4" built to 8 1/2"
60 ISI - No return
45 FF - Surface blow started @ 5 mins built to 9"
90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2084.96	121.54	Initial Hydro-static
1	21.03	121.05	Open To Flow (1)
30	117.62	125.73	Shut-In(1)
89	1244.88	128.71	End Shut-In(1)
90	133.10	128.31	Open To Flow (2)
134	217.80	131.87	Shut-In(2)
227	1216.72	132.16	End Shut-In(2)
229	2041.45	132.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
274.00	OMCW - 2%o - 30%M - 68%W	1.35
92.00	OWCM - 2%o - 38%W - 60%M	0.45
73.00	OWCM - 2%o - 43%W - 55%M	1.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53507

DST#: 1

ATTN: Larry Nicholson

Test Start: 2013.08.21 @ 23:02:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:30

Time Test Ended: 06:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 66

Interval: 4226.00 ft (KB) To 4246.00 ft (KB) (TVD)

Reference Elevations: 3402.00 ft (KB)

Total Depth: 4266.00 ft (KB) (TVD)

3391.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653

Outside

Press @ Run Depth: psig @ 4227.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.21

End Date:

2013.08.22

Last Calib.:

2013.08.22

Start Time: 23:03:00

End Time:

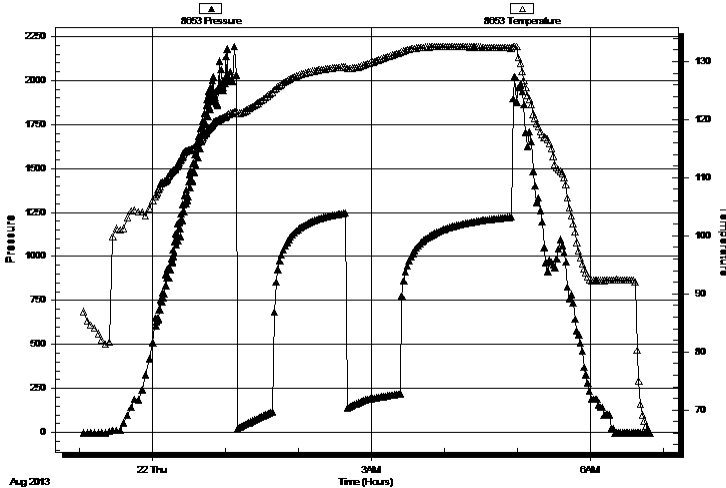
06:50:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1/4" built to 8 1/2"
60 ISI - No return
45 FF - Surface blow started @ 5 mins built to 9"
90 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
274.00	OMCW - 2%o - 30%M - 68%W	1.35
92.00	OWCM - 2%o - 38%W - 60%M	0.45
73.00	OWCM - 2%o - 43%W - 55%M	1.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53507

DST#: 1

ATTN: Larry Nicholson

Test Start: 2013.08.21 @ 23:02:00

Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.88 inches	Volume: 56.16 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4226.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	67.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4204.00	
Hydraulic tool	5.00			4209.00	
Jars	5.00			4214.00	
Safety Joint	3.00			4217.00	
Packer	5.00			4222.00	27.00 Bottom Of Top Packer
Packer	4.00			4226.00	
Packer - Shale	0.00			4226.00	
Stubb	1.00			4227.00	
Recorder	0.00	8653	Outside	4227.00	
Recorder	0.00	8874	Inside	4227.00	
Perforations	1.00			4228.00	
Change Over Sub	1.00			4229.00	
Drill Pipe	31.00			4260.00	
Change Over Sub	1.00			4261.00	
Bullnose	5.00			4266.00	40.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53507

DST#: 1

ATTN: Larry Nicholson

Test Start: 2013.08.21 @ 23:02:00

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:

18000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 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 bbbl
274.00	OMCW - 2%o - 30%M - 68%W	1.347
92.00	OWCM - 2%o - 38%W - 60%M	0.452
73.00	OWCM - 2%o - 43%W - 55%M	1.068

Total Length: 439.00 ft Total Volume: 2.867 bbl

Num Fluid Samples: 0

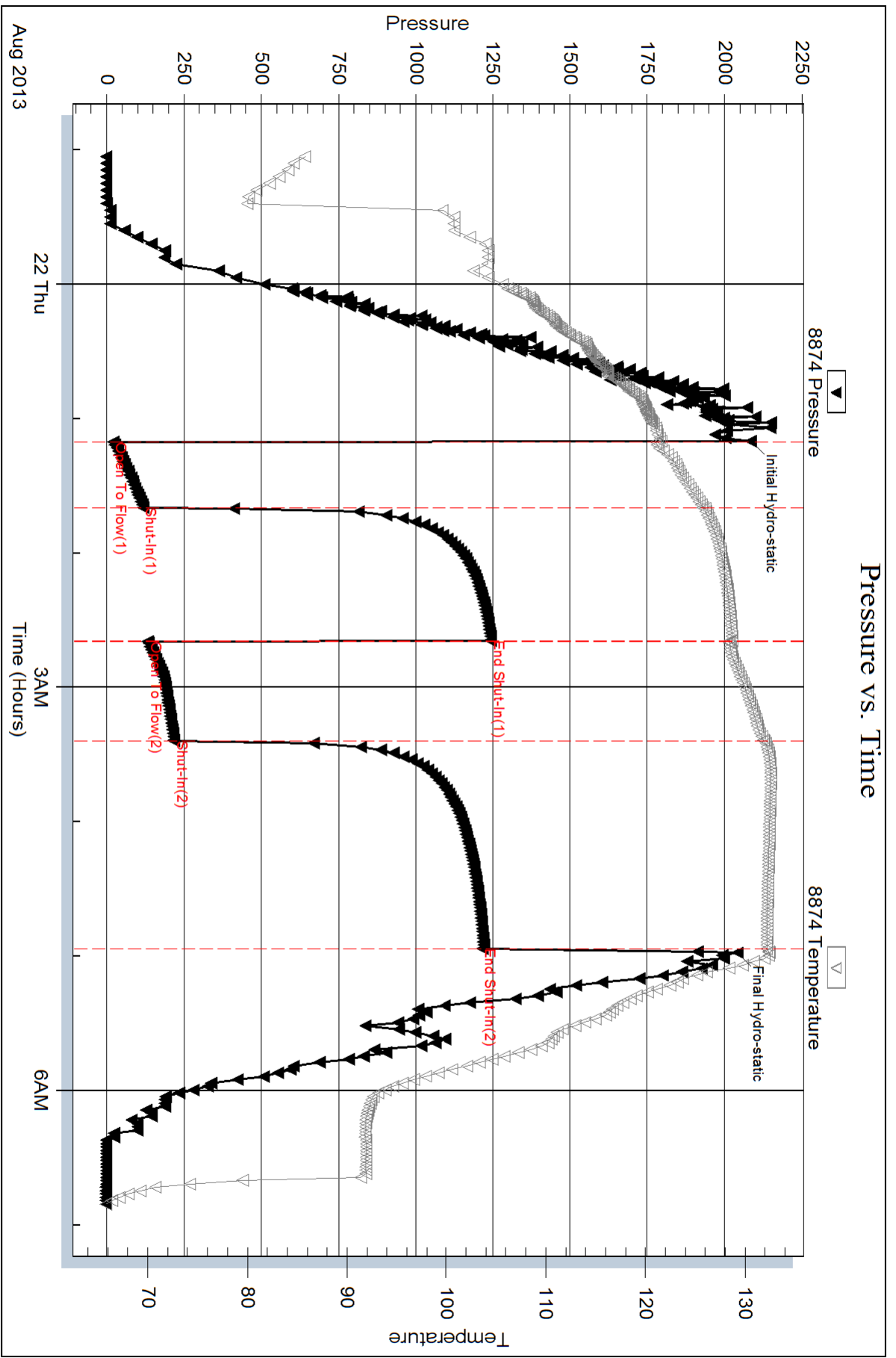
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .425 @ 68 DEG F

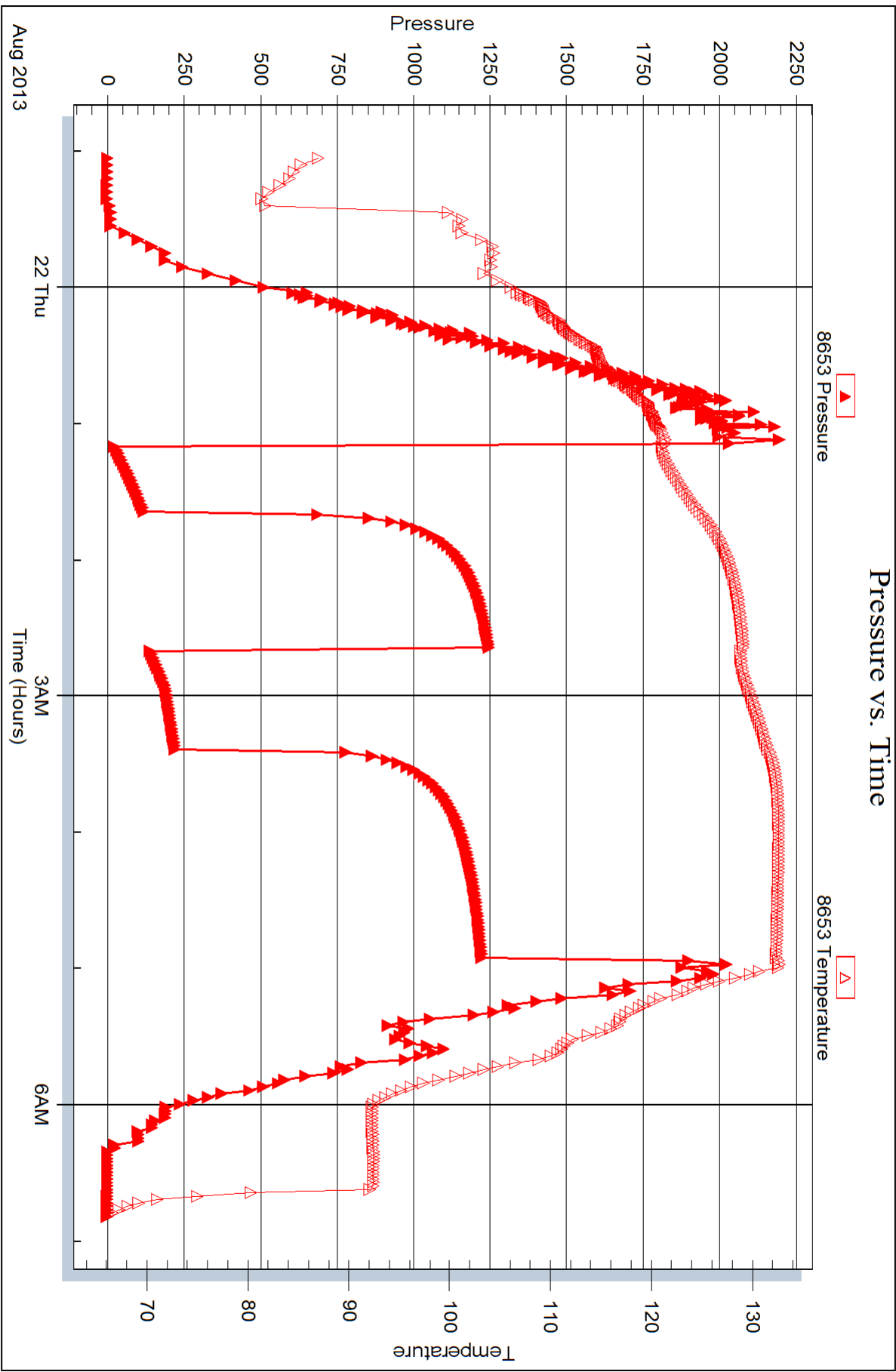


Serial #: 8653

Outside Ward Petroleum Corp.

Firegan #1-23

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corp.**

502 S. Fillmore
Enid OK 73703

ATTN: Larry Nicholson

Finegan #1-23

23-6s-38w Sherman,KS

Start Date: 2013.08.22 @ 20:48:00

End Date: 2013.08.23 @ 03:00:30

Job Ticket #: 53508 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.27 @ 10:38:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53508

DST#: 2

ATTN: Larry Nicholson

Test Start: 2013.08.22 @ 20:48:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:24:30

Time Test Ended: 03:00:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 66

Interval: 4397.00 ft (KB) To 4370.00 ft (KB) (TVD)

Reference Elevations: 3402.00 ft (KB)

Total Depth: 4397.00 ft (KB) (TVD)

3391.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press @ Run Depth: 17.06 psig @ 4371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.22

End Date:

2013.08.23

Last Calib.:

2013.08.23

Start Time: 20:49:00

End Time:

03:00:30

Time On Btm:

2013.08.22 @ 23:24:00

Time Off Btm:

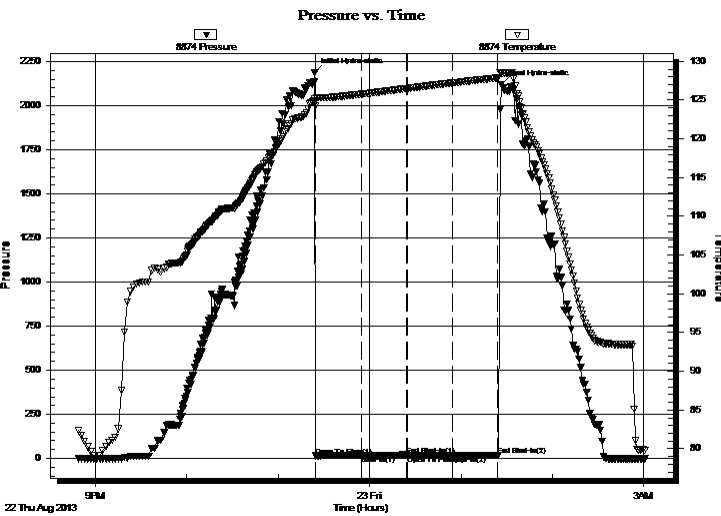
2013.08.23 @ 01:26:30

TEST COMMENT: 30 IF - Surface blow died @ 20 mins

30 ISI - No return

30 FF - No blow

30 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.76	125.16	Initial Hydro-static
1	14.67	124.20	Open To Flow (1)
31	16.50	125.75	Shut-In(1)
60	20.04	126.49	End Shut-In(1)
61	16.62	126.51	Open To Flow (2)
91	17.06	127.21	Shut-In(2)
120	19.82	127.86	End Shut-In(2)
123	2119.73	128.40	Final Hydro-static

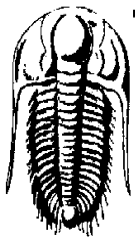
Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w/oil spots - 100%m	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ward Petroleum Corp.

23-6s-38w Sherman, KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

ATTN: Larry Nicholson

Job Ticket: 53508 **DST#: 2**

Test Start: 2013.08.22 @ 20:48:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:24:30

Time Test Ended: 03:00:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 66

Interval: 4397.00 ft (KB) To 4370.00 ft (KB) (TVD)

Total Depth: 4397.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3402.00 ft (KB)

3391.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8653 **Outside**

Press @ Run Depth: psig @ 4371.00 ft (KB)

Start Date: 2013.08.22 End Date: 2013.08.23

Start Time: 20:49:00 End Time: 02:59:00

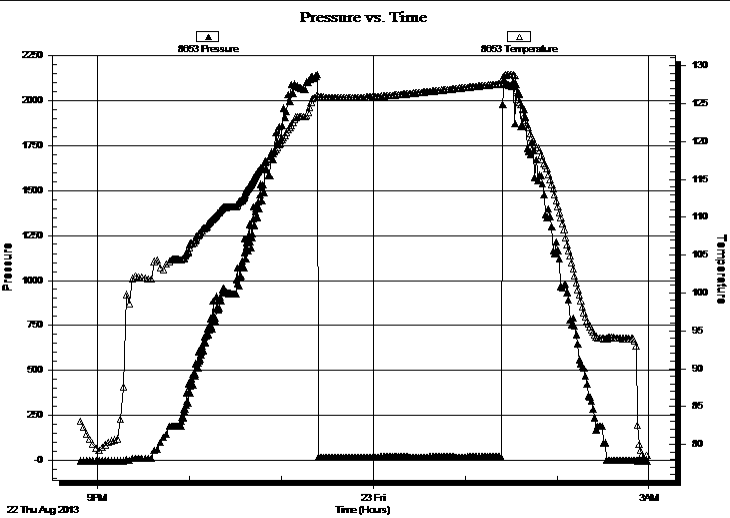
Capacity: 8000.00 psig

Last Calib.: 2013.08.23

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - Surface blow died @ 20 mins
30 ISI - No return
30 FF - No blow
30 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w/oil spots - 100% _m	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53508

DST#: 2

ATTN: Larry Nicholson

Test Start: 2013.08.22 @ 20:48:00

Tool Information

Drill Pipe:	Length: 3997.00 ft	Diameter: 3.88 inches	Volume: 58.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4370.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4348.00	
Hydraulic tool	5.00			4353.00	
Jars	5.00			4358.00	
Safety Joint	3.00			4361.00	
Packer	5.00			4366.00	27.00 Bottom Of Top Packer
Packer	4.00			4370.00	
Packer - Shale	0.00			4370.00	
Stubb	1.00			4371.00	
Recorder	0.00	8653	Outside	4371.00	
Recorder	0.00	8874	Inside	4371.00	
Perforations	21.00			4392.00	
Bullnose	5.00			4397.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53508

DST#: 2

ATTN: Larry Nicholson

Test Start: 2013.08.22 @ 20:48:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 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
1.00	Mud w /oil spots - 100%m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

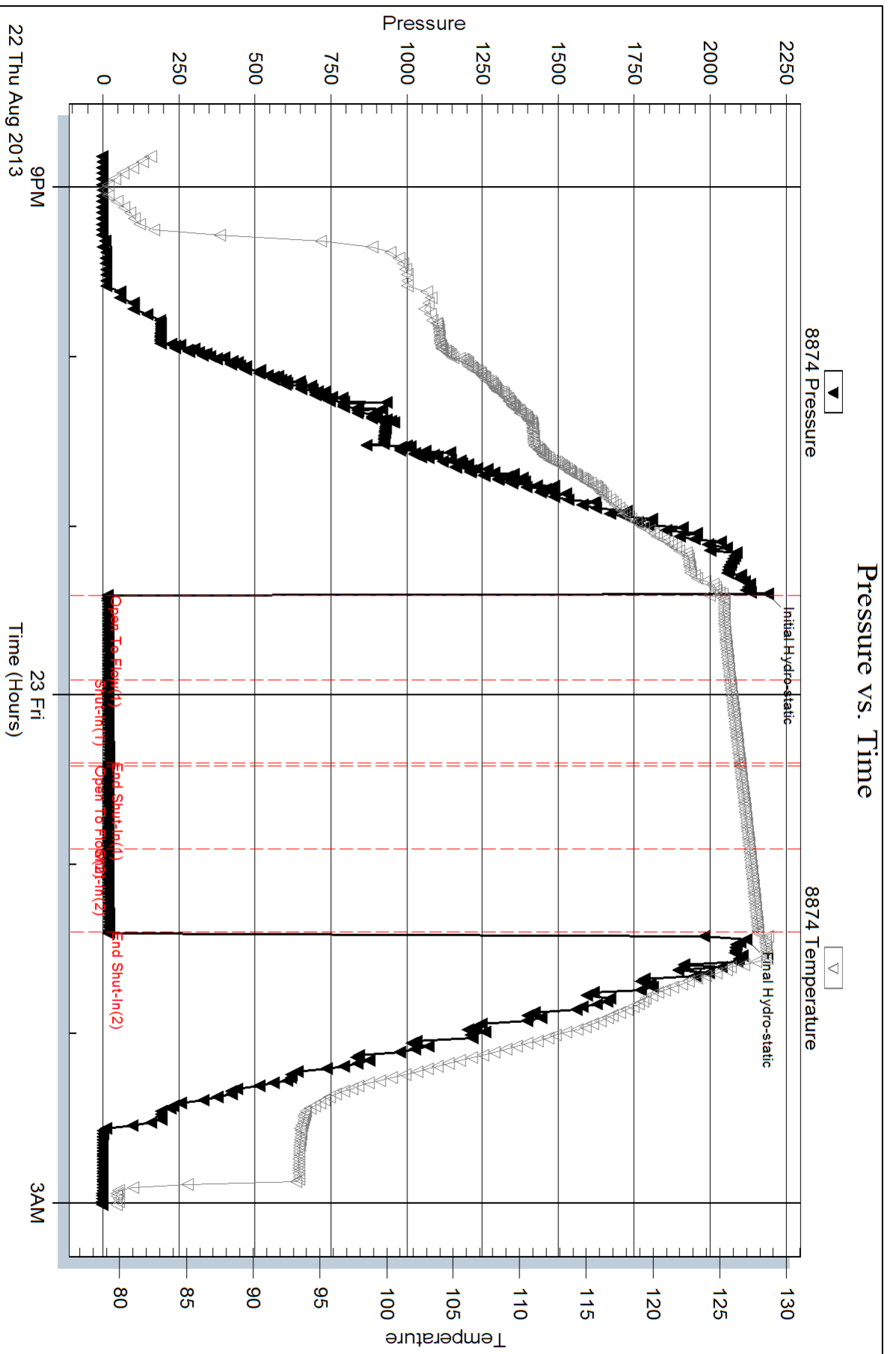
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

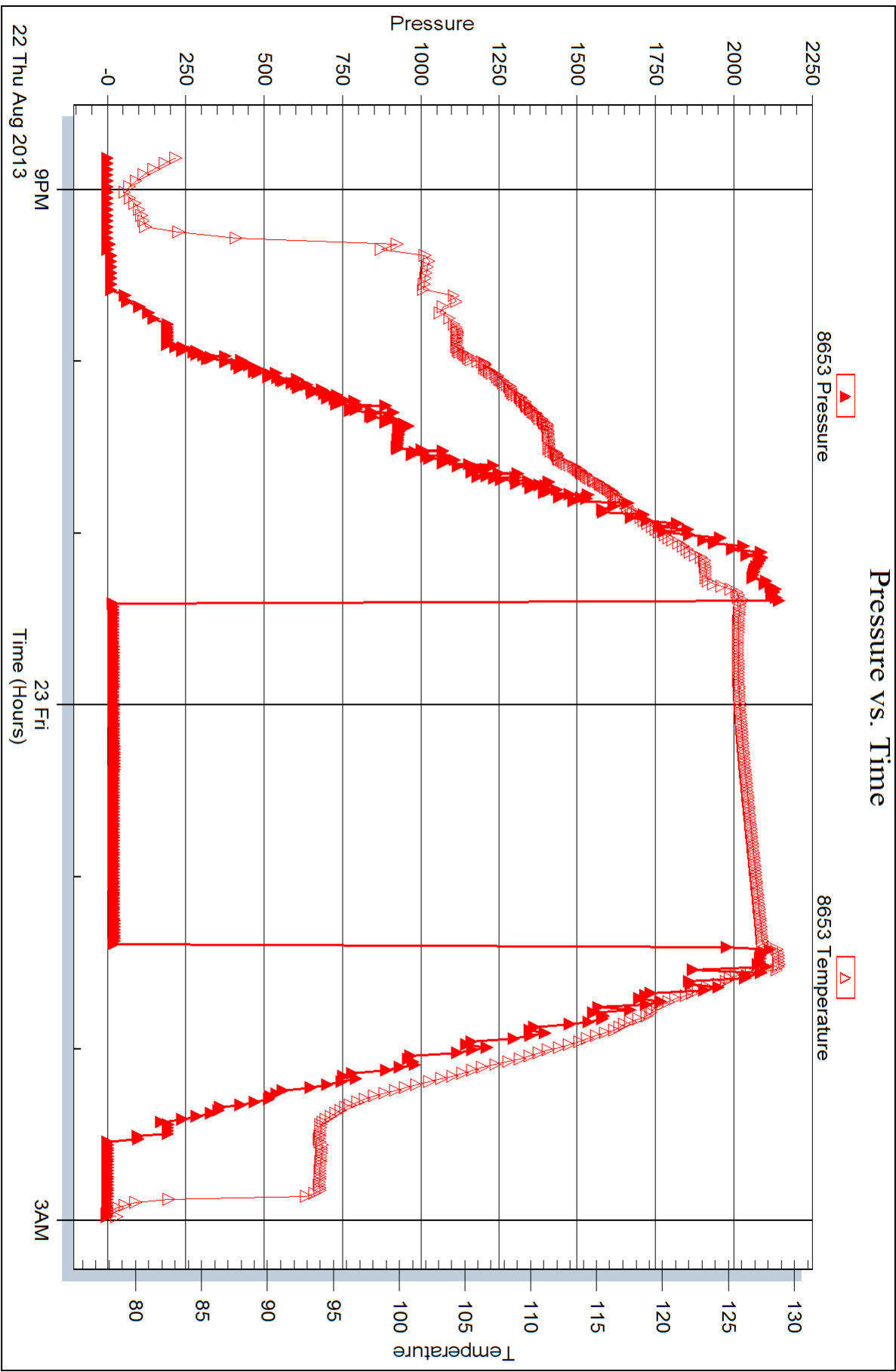


Serial #: 8653

Outside Ward Petroleum Corp.

Finegan #1-23

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corp.**

502 S. Fillmore
Enid OK 73703

ATTN: Larry Nicholson

Finegan #1-23

23-6s-38w Sherman,KS

Start Date: 2013.08.23 @ 22:00:00

End Date: 2013.08.24 @ 06:16:30

Job Ticket #: 53364 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.08.27 @ 10:38:02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53364

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.08.23 @ 22:00:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:08:30

Time Test Ended: 06:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4561.00 ft (KB) To 4586.00 ft (KB) (TVD)

Reference Elevations: 3402.00 ft (KB)

Total Depth: 4586.00 ft (KB) (TVD)

3391.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874 Inside

Press @ Run Depth: 269.26 psig @ 4562.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.23

End Date:

2013.08.24

Last Calib.:

2013.08.24

Start Time: 22:01:00

End Time:

06:16:30

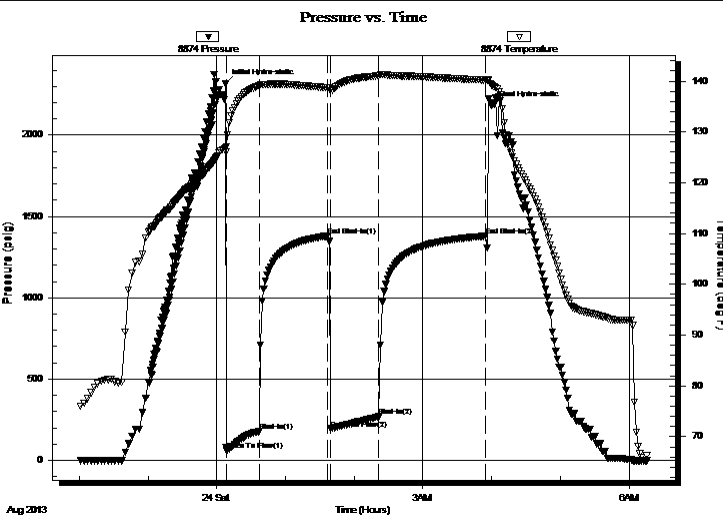
Time On Btm:

2013.08.24 @ 00:07:30

Time Off Btm:

2013.08.24 @ 04:00:00

TEST COMMENT: 30 - IF- BOB in 11 min.
60 - IS- Weak Surface Return started at 2 min. Built to 3/4" then died back to 1/4"
45 - FF- BOB in 18 min.
90 - FS- Return built to BOB in 70 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.06	126.87	Initial Hydro-static
1	60.27	127.07	Open To Flow (1)
30	178.33	139.10	Shut-In(1)
89	1380.76	138.71	End Shut-In(1)
92	194.95	138.07	Open To Flow (2)
134	269.26	141.06	Shut-In(2)
227	1379.81	140.20	End Shut-In(2)
233	2181.04	139.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOCMW 20G 20o 40W 20M	0.89
180.00	GWOM 20G 30o 20W 30M	0.89
250.00	Clean Gassy Oil 30G 70o	3.45
0.00	400' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53364

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.08.23 @ 22:00:00

Tool Information

Drill Pipe:	Length: 4183.00 ft	Diameter: 3.80 inches	Volume: 58.68 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 60.48 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4561.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4539.00	
Hydraulic tool	5.00			4544.00	
Jars	5.00			4549.00	
Safety Joint	3.00			4552.00	
Packer	5.00			4557.00	27.00 Bottom Of Top Packer
Packer	4.00			4561.00	
Stubb	1.00			4562.00	
Recorder	0.00	8653	Outside	4562.00	
Recorder	0.00	8874	Inside	4562.00	
Perforations	19.00			4581.00	
Bullnose	5.00			4586.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ward Petroleum Corp.

23-6s-38w Sherman,KS

502 S. Fillmore
Enid OK 73703

Finegan #1-23

Job Ticket: 53364

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.08.23 @ 22:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	GOCMW 20G 20o 40W 20M	0.885
180.00	GWOM 20G 30o 20W 30M	0.885
250.00	Clean Gassy Oil 30G 70o	3.452
0.00	400' GIP	0.000

Total Length: 610.00 ft Total Volume: 5.222 bbl

Num Fluid Samples: 0

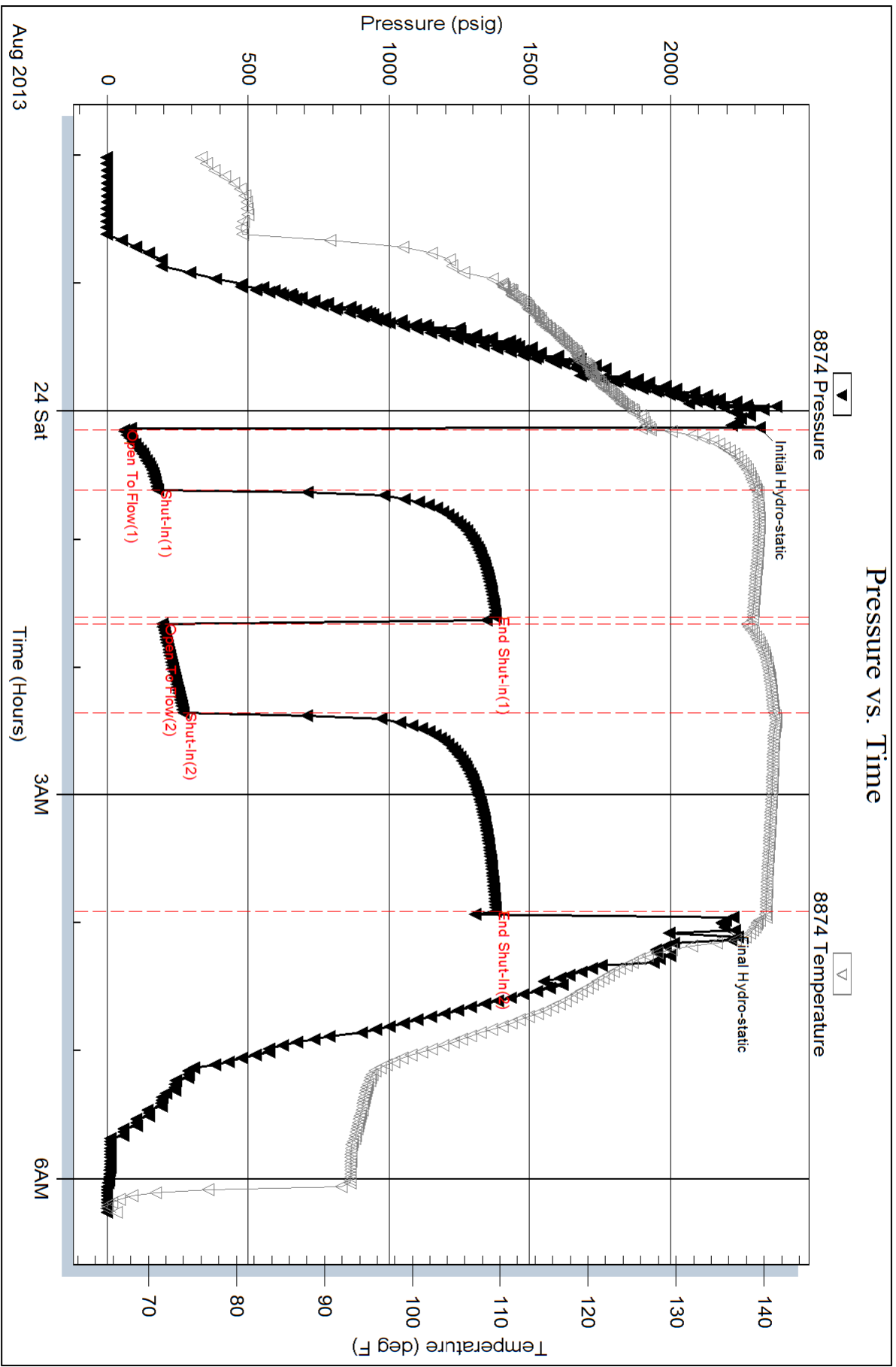
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 28 @ 80 = 26

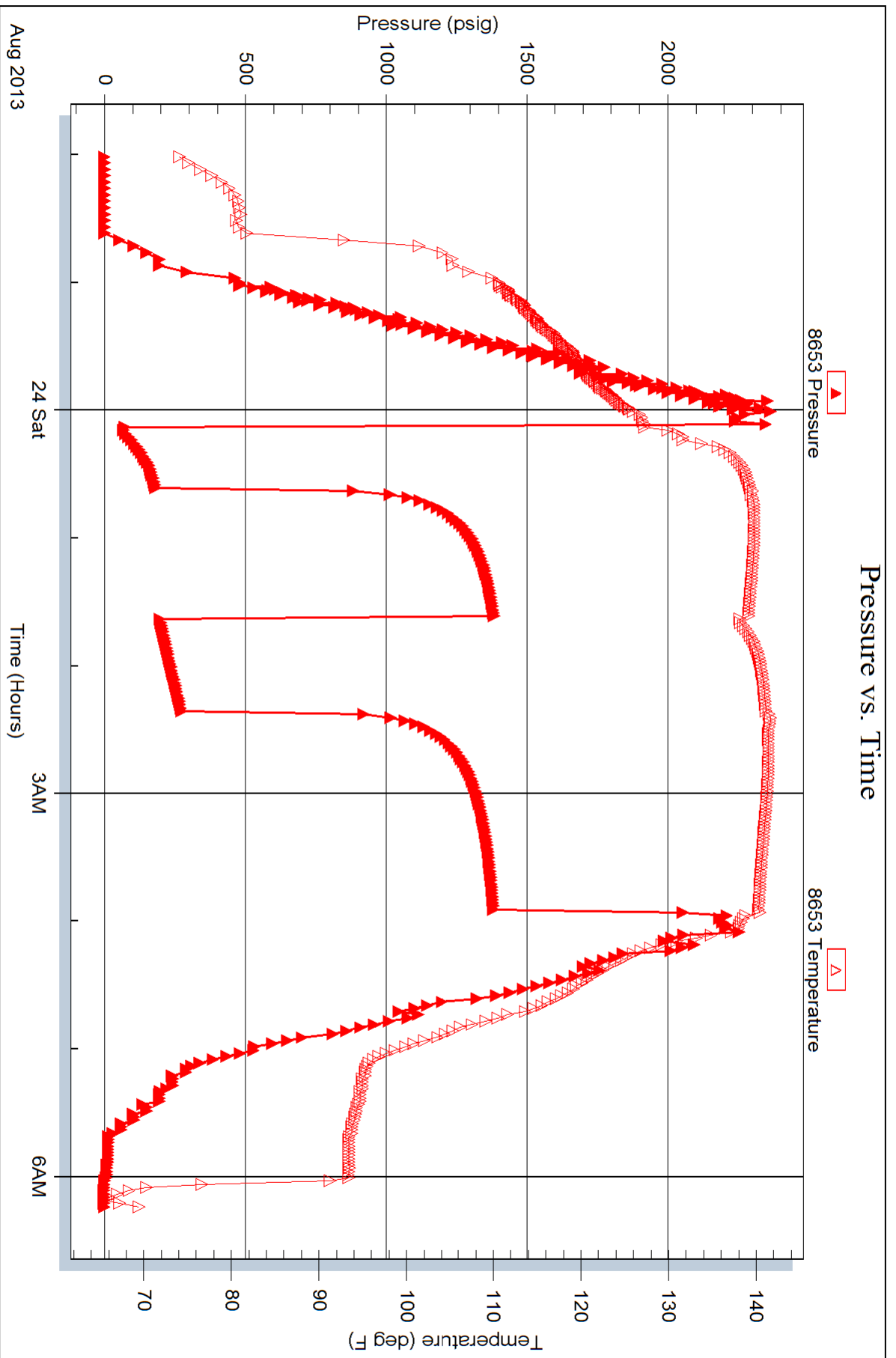


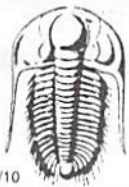
Serial #: 8653

Outside Ward Petroleum Corp.

Firegan #1-23

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53507

Well Name & No. Finnegan # 1-23 Test No. 1 Date 8/21/13
 Company Ward Petroleum Corp. Elevation 3402 KB 3391 GL
 Address 502 S. Fillmore Enid OK 73703
 Co. Rep / Geo. Larry Nicholson Rig #2 #1
 Location: Sec. 23 Twp. 6 S Rge. 38W Co. Sherman State KS

Interval Tested 4226 - 4266 Zone Tested LKC "c"
 Anchor Length 40' Drill Pipe Run 3840 Mud Wt. 9.1
 Top Packer Depth 4221 Drill Collars Run 366' Vis 55
 Bottom Packer Depth 4226 Wt. Pipe Run 0' WL 8.0
 Total Depth 4266 Chlorides 3400 ppm System LCM 2

Blow Description IF - 1/4" blow built to 8 1/2"
ISI - No return
FF - Surface blow started @ 5 mins built to 9"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>73'</u>	<u>OWCM</u>	<u>2</u>	<u>43</u>	<u>55</u>	
<u>92'</u>	<u>OWCM</u>	<u>2</u>	<u>38</u>	<u>60</u>	
<u>274'</u>	<u>OMCW</u>	<u>2</u>	<u>68</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 439' BHT 132° Gravity — API RW .425 @ 68° F Chlorides 18,000 ppm

(A) Initial Hydrostatic 2085 Test 1250 T-On Location 22:00
 (B) First Initial Flow 21 Jars 250 T-Started 23:02
 (C) First Final Flow 118 Safety Joint 75 T-Open 01:09
 (D) Initial Shut-In 1245 Circ Sub NC T-Pulled 04:54
 (E) Second Initial Flow 133 Hourly Standby T-Out 06:51
 (F) Second Final Flow 218 Mileage RT 150 Comments _____
 (G) Final Shut-In 1217 Sampler 232.50 _____
 (H) Final Hydrostatic 2041 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility 150 Total 2207.50
 Sub Total 2207.50 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53508

4/10

Well Name & No. Ward Petroleum Corp Test No. 2 Date 8/22/13
 Company Fenegan # 1-23 Elevation 3402 KB 3391 GL
 Address 502 S. Fillmore Enid OK 73703
 Co. Rep / Geo. Larry Nicholson Rig H2 #1
 Location: Sec. 23 Twp. 25 Rge. 38W Co. Sherman State KS

Interval Tested 4370 - 4397 Zone Tested "H" Lansing
 Anchor Length 27' Drill Pipe Run 3997' Mud Wt. 9.1
 Top Packer Depth 4365 Drill Collars Run 366' Vis 55
 Bottom Packer Depth 4370 Wt. Pipe Run 0' WL 8.0
 Total Depth 4397 Chlorides 3400 ppm System LCM 2

Blow Description IF - Surface blow died @ 20 mins
ISI - No return
FF - No blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>Mud w/oil spots</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1' BHT 128° Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2189</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>20:00</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:48</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:25</u>
(D) Initial Shut-In <u>20</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:25</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:00</u>
(F) Second Final Flow <u>17</u>	<input checked="" type="checkbox"/> Mileage <u>150 RT</u> 232.50	Comments _____
(G) Final Shut-In <u>20</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2120</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2207.50</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't _____
	Sub Total <u>2207.50</u>	

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53364

Well Name & No. Fenegan #1-23 Test No. 3 Date 8-23-13
 Company Ward Petroleum Corp. Elevation 3402 KB 3391 GL
 Address 502 S. Fillmore Enid, OK 73703
 Co. Rep / Geo. Larry Nicholson Rig H2 #1
 Location: Sec. 23 Twp. 6S Rge. 38W Co. Sherman State KS

Interval Tested 4561-4586 Zone Tested Marmaton
 Anchor Length 25' Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 4557 Drill Collars Run 366' Vis 59
 Bottom Packer Depth 4561 Wt. Pipe Run Ø WL 9.6
 Total Depth 4586 Chlorides 4,000 ppm System LCM 2#

Blow Description IF - BoB in 11 min.
IST - Weak Surface Return Started at 2 min. Built to 3/4", then died
FF - BoB in 18 min. back to 1/4"
FST - Return Built to BoB in 70 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>Clear Gassy Oil</u>	<u>30</u>	<u>70</u>		
<u>180</u>	<u>SWOM</u>	<u>20</u>	<u>30</u>	<u>20</u>	<u>30</u>
<u>180</u>	<u>GOCMW</u>	<u>20</u>	<u>20</u>	<u>40</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
<u>400</u>	<u>GIP</u>	<u>100</u>			

Rec Total 610 BHT 140 Gravity 26 API RW - @ - ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2315</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:45 PM</u>
(B) First Initial Flow <u>60</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:00 AM</u>
(C) First Final Flow <u>178</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:08 AM</u>
(D) Initial Shut-In <u>1380</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>3:53 AM</u>
(E) Second Initial Flow <u>194</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>6:30 AM</u>
(F) Second Final Flow <u>269</u>	<input checked="" type="checkbox"/> Mileage <u>150 RT X 2</u> 465	Comments _____
(G) Final Shut-In <u>1379</u>	<input type="checkbox"/> Sampler _____	<u>loaded tools 8/25 9:45</u>
(H) Final Hydrostatic <u>2181</u>	<input type="checkbox"/> Straddle _____	

Initial Open 30 Shale Packer Ø 250 Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Sub Total 800
 Final Shut-In 90 Day Standby 1d 3.25h Total 3240
 Accessibility X2 150 MP/DST Disc't _____
 Sub Total 2440

Approved By _____ Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

ALLIED OIL & GAS SERVICES, LLC 061309

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Dakley

DATE <u>8-26-13</u>	SEC. <u>23</u>	TWP. <u>6</u>	RANGE <u>38</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30 AM 11/20</u>	JOB FINISH <u>8:30 2/20</u>
LEASE <u>Finegan</u>	WELL # <u>1-23</u>		LOCATION <u>Edson 1W 13N 34E</u>	COUNTY <u>Sherman</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>			<u>Sinto</u>				

CONTRACTOR H2 #1
 TYPE OF JOB Production 2stage
 HOLE SIZE 2 7/8 T.D.
 CASING SIZE 5/2 DEPTH 4936.23'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DV DEPTH 3163.55'
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 41.20
 CEMENT LEFT IN CSG. 41.20
 PERFS. bottom TOP
 DISPLACEMENT 11/16 97 23.29

OWNER same
 CEMENT
 AMOUNT ORDERED 150 sks Ac 108.5 ft 2 stage
5# Gilsomite 200# FL-40 14 Defoamer
410 sks AmD 1st Flo-seal
1200L super FLUSH
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC 150 sks @ 20.80 3120.00
AmD 410 sks @ 25.90 10619.00
Flo-seal 205# @ 2.97 608.85
 @
Gilsomite 250# @ 1.98 235.00
Defoamer 21# @ 9.80 205.80
FL-10 42# @ 18.50 793.80
super FLUSH 1200L @ 58.70 204.40
 @

EQUIPMENT
 PUMP TRUCK CEMENTER Andrew Foxlund
 # 423-281 HELPER Tyler Flipse
 BULK TRUCK
 # 373 DRIVER David Scario
 BULK TRUCK
 # 566 DRIVER Brandon Wilkison

HANDLING 659.83 @ 2.48 1636.37
 MILEAGE 21.0 @ 29.70/mile 3424.90
 TOTAL 21913.12

REMARKS:

Thank you

CHARGE TO: Ward Petroleum corp
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 4936.23'
 PUMP TRUCK CHARGE 8715.25 TOP
 EXTRA FOOTAGE @ 240.00
 MILEAGE 45 miles @ 7.20 346.50
 MANIFOLD head @ 225.00
 Light vehicle @ 4.40 198.00
 @

TOTAL 5716.50

PLUG & FLOAT EQUIPMENT

5/2
 1 Triplex shoe @ 1026.20
 1 Latchdown plug Assy @ 398.75
 1 DV tool @ 402.00
 8 TurboLizers @ 48.30 384.00
 2 Centralizers @ 28.40 56.80
 2 Baskets 159.40 318.80
 TOTAL 6271.55

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 33901.17

PRINTED NAME Rodney Gonzalez

DISCOUNT 6,907.40 IF PAID IN 30 DAYS

SIGNATURE Rodney Gonzalez

Bid 26,993.76 Net.

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/>

Shari Feist Albrecht, Chair
Thomas E. Wright, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

February 20, 2014

KEVIN SMITH
Ward Petroleum Corporation
502 S. FILLMORE
ENID, OK 73703

Re: ACO-1
API 15-181-20594-00-00
Finegan 1-23
NE/4 Sec.23-06S-38W
Sherman County, Kansas

Dear KEVIN SMITH:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 08/18/2013 and the ACO-1 was received on February 13, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department