



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215281  
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: \_\_\_\_\_

1215281

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: <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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ACO-1 Supplemental Information

## SAMPLE TOPS

McCoy Petroleum Corp.  
Pfiefer 'A' #1-27  
NW NW NE  
330'FNL & 2310'FEL  
Sec 27-10s-25w  
KB: 2503'

	Depth	Datum
Anhydrite	2159	+344
Base Anhydrite	2190	+313
Topeka		NC
Heebner	3770	-1267
Toronto	3793	-1290
Lansing 'A'	3807	-1304
Lansing 'B-C'	3840	-1337
Lansing 'D'	3854	-1351
Lansing 'E-F'	3894	-1391
Lansing 'G'	3898	-1395
Muncie Creek	3928	-1425
Lansing 'H'	3944	-1441
Lansing 'I'	3964	-1461
Lansing 'J'	3987	-1484
Stark	3997	-1494
LKC 'K' Zone	4004	-1501
Hushpuckney	4018	-1515
BKC	4042	-1539
RTD	4100	-1597

## LOG TOPS

McCoy Petroleum Corp.  
Pfiefer 'A' #1-27  
NW NW NE  
330'FNL & 2310'FEL  
Sec 27-10s-25w  
KB: 2503'

	Depth	Datum
Anhydrite	2156	+347
Base Anhydrite	2190	+313
Topeka	3556	-1053
Heebner	3772	-1269
Toronto	3795	-1292
Lansing 'A'	3811	-1308
Lansing 'B-C'	3840	-1337
Lansing 'D'	3850	-1347
Lansing 'E-F'	3877	-1374
Lansing 'G'	3886	-1383
Muncie Creek	3930	-1427
Lansing 'H'	3942	-1439
Lansing 'I'	3964	-1461
Lansing 'J'	3988	-1485
Stark	3997	-1494
LKC 'K' Zone	4000	-1497
Hushpuckney	4018	-1515
BKC	4040	-1537
LTD	4100	-1597



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E Central  
Wichita, KS 67206

ATTN: Dave Williams

### **Pfeifer "A" #1-27**

#### **27-10s-25w Graham, KS**

Start Date: 2014.06.17 @ 07:30:00

End Date: 2014.06.17 @ 17:32:00

Job Ticket #: 59382                      DST #: 1

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

Printed: 2014.06.23 @ 09:55:54



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59382

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.17 @ 07:30:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:30

Time Test Ended: 17:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 76

**Interval: 3778.00 ft (KB) To 3806.00 ft (KB) (TVD)**

Reference Elevations: 2503.00 ft (KB)

Total Depth: 3806.00 ft (KB) (TVD)

2498.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8789 Outside**

Press@RunDepth: 534.24 psig @ 3779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.17

End Date:

2014.06.17

Last Calib.:

2014.06.17

Start Time: 07:30:02

End Time:

17:32:00

Time On Btm:

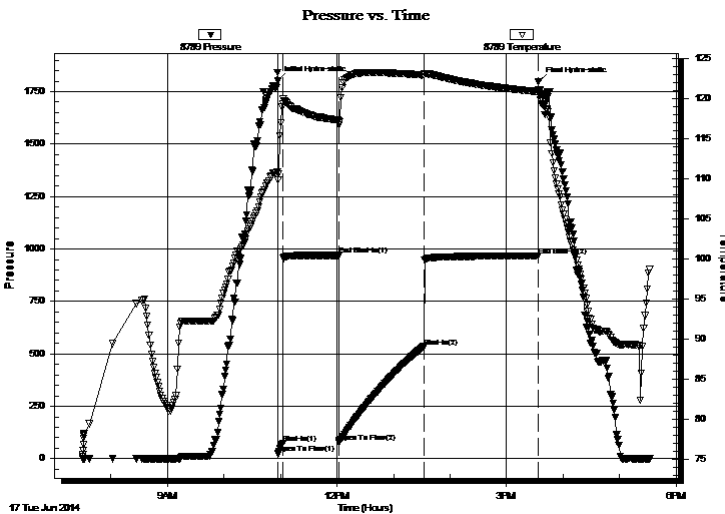
2014.06.17 @ 10:57:15

Time Off Btm:

2014.06.17 @ 15:34:00

**TEST COMMENT:** 5-IF-Built to 6 1/2"  
60-ISI-No Return  
90-FF-BOB in 8 mins  
120-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.68	110.89	Initial Hydro-static
1	23.62	109.91	Open To Flow (1)
5	73.90	119.41	Shut-In(1)
65	970.01	117.29	End Shut-In(1)
65	78.71	116.95	Open To Flow (2)
155	534.24	122.94	Shut-In(2)
276	967.24	120.87	End Shut-In(2)
277	1797.78	121.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1066.00	MW, 10%m, 90%w, with oil spots	14.18
50.00	MW, 40%m, 60%w, with oil spots	0.70

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59382

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.17 @ 07:30:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:30

Time Test Ended: 17:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 76

**Interval: 3778.00 ft (KB) To 3806.00 ft (KB) (TVD)**

Reference Elevations: 2503.00 ft (KB)

Total Depth: 3806.00 ft (KB) (TVD)

2498.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: psig @ 3779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.17

End Date:

2014.06.17

Last Calib.:

2014.06.17

Start Time: 07:30:02

End Time:

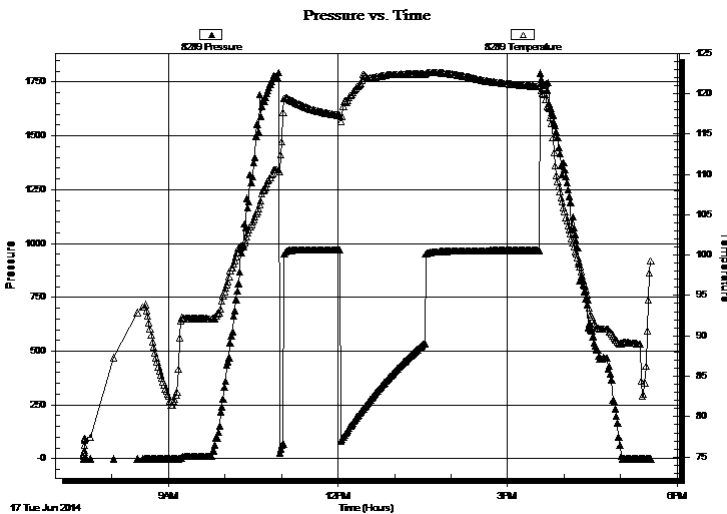
17:32:15

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IF-Built to 6 1/2"  
60-ISI-No Return  
90-FF-BOB in 8 mins  
120-FSI-No Return

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
1066.00	MW, 10%m, 90%w, with oil spots	14.18
50.00	MW, 40%m, 60%w, with oil spots	0.70

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59382

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.17 @ 07:30:00

## Tool Information

Drill Pipe:	Length: 3679.00 ft	Diameter: 3.80 inches	Volume: 51.61 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 85.00 ft	Diameter: 2.25 inches	Volume: 0.42 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 52.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3778.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3751.00	
Shut In Tool	5.00			3756.00	
Hydraulic tool	5.00			3761.00	
Jars	5.00			3766.00	
Safety Joint	2.00			3768.00	
Packer	5.00			3773.00	28.00 Bottom Of Top Packer
Packer	5.00			3778.00	
Stubb	1.00			3779.00	
Recorder	0.00	8366	Inside	3779.00	
Recorder	0.00	8789	Outside	3779.00	
Perforations	24.00			3803.00	
Bullnose	3.00			3806.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59382

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.17 @ 07:30:00

### 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 3.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1066.00	MW, 10%m, 90%w , with oil spots	14.179
50.00	MW, 40%m, 60%w , with oil spots	0.701

Total Length: 1116.00 ft      Total Volume: 14.880 bbl

Num Fluid Samples: 0

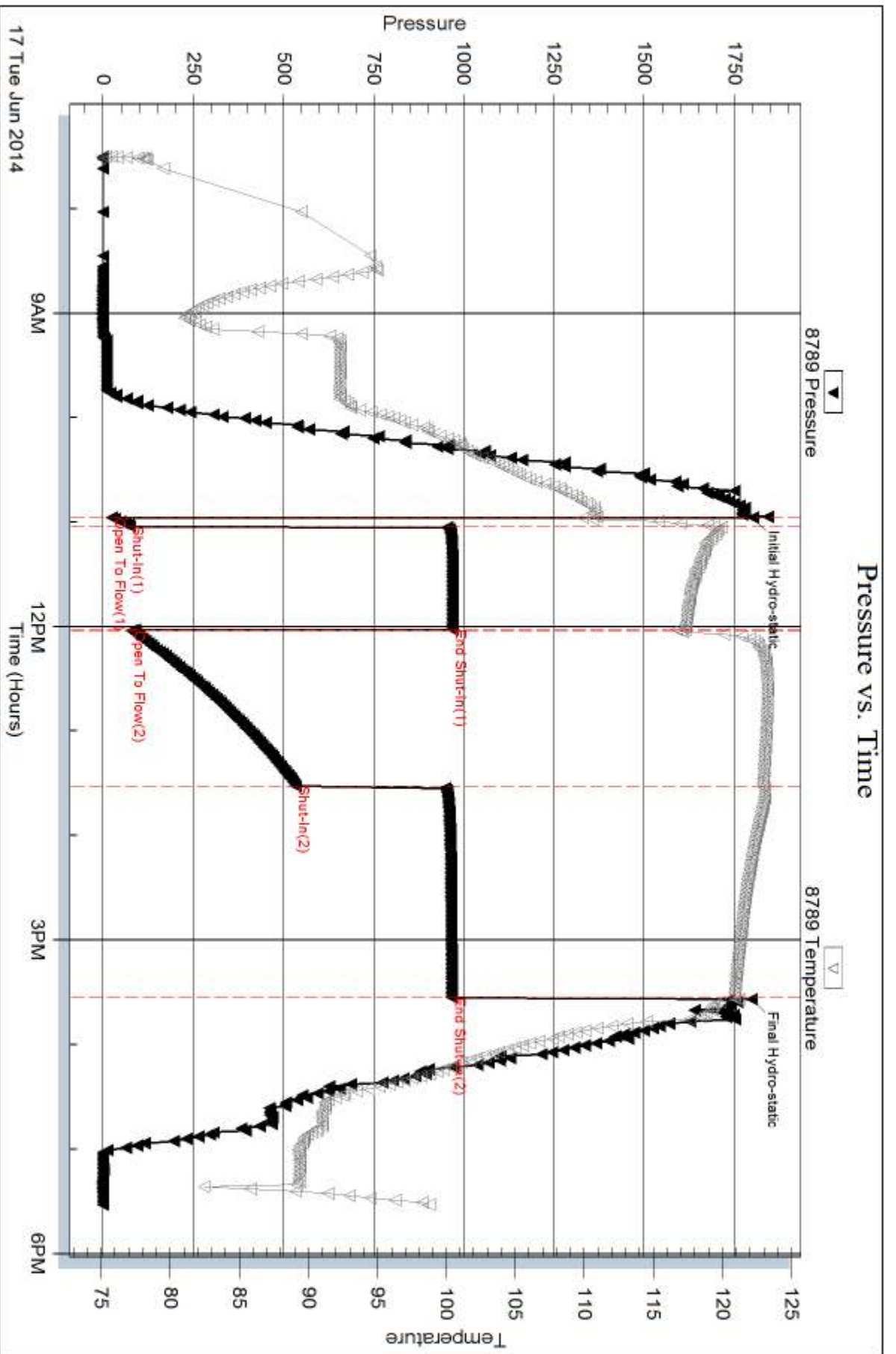
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .121 @ 101 Degrees = 46,000 Salinity

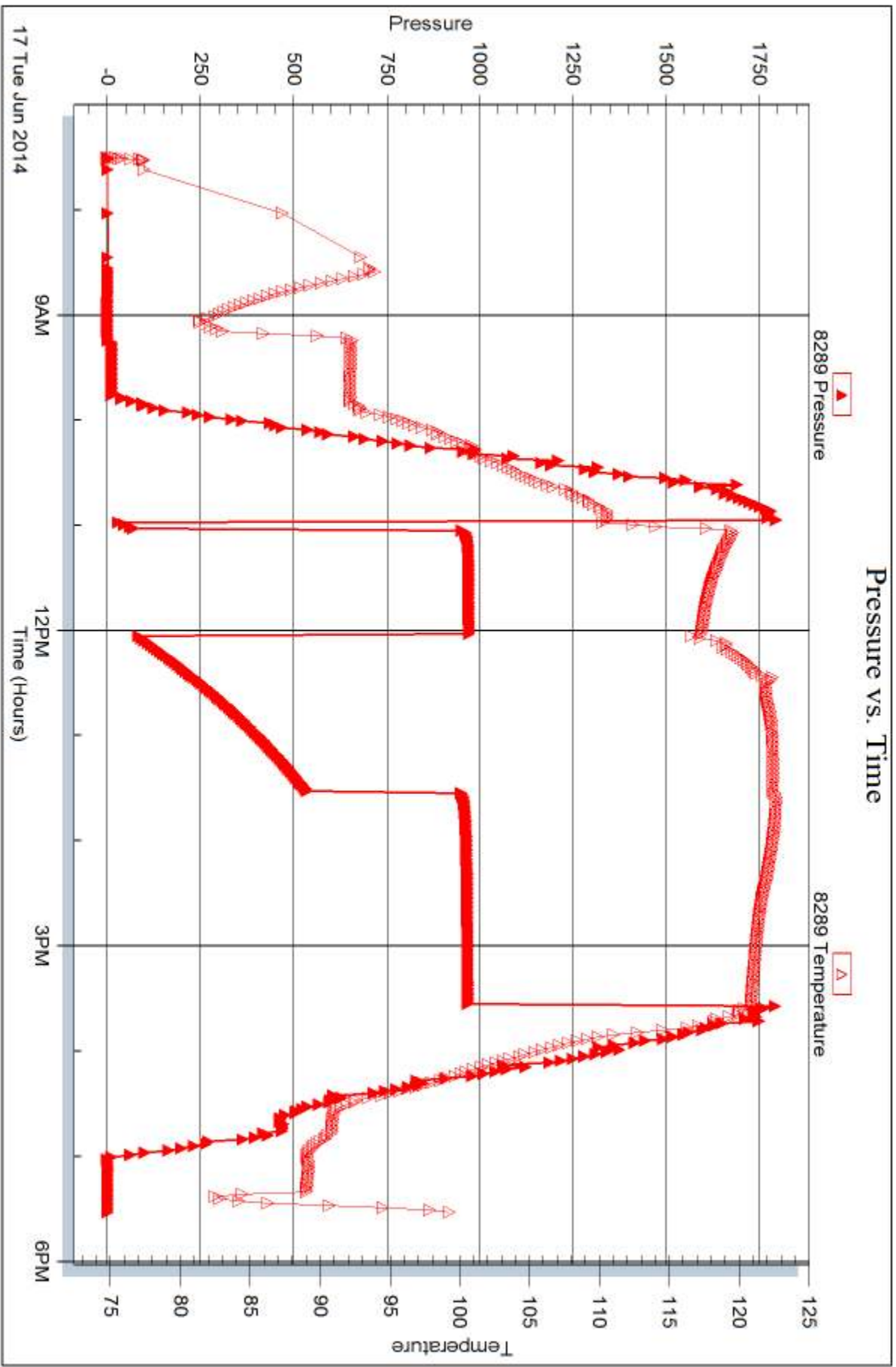


Serial #: 8289

Outside McCoy Petroleum Corp.

Prefer "A" #1-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59382

Printed: 2014.06.23 @ 09:55:55



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E Central  
Wichita, KS 67206

ATTN: Dave Williams

### **Pfeifer "A" #1-27**

#### **27-10s-25w Graham, KS**

Start Date: 2014.06.18 @ 10:01:00

End Date: 2014.06.18 @ 17:41:30

Job Ticket #: 59383                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.23 @ 09:55:33

McCoy Petroleum Corp.

27-10s-25w Graham, KS

Pfeifer "A" #1-27

DST # 2

LKC "H"

2014.06.18



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59383

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.18 @ 10:01:00

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:44:00

Time Test Ended: 17:41:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 76

**Interval: 3924.00 ft (KB) To 3954.00 ft (KB) (TVD)**

Reference Elevations: 2503.00 ft (KB)

Total Depth: 3954.00 ft (KB) (TVD)

2498.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8789 Outside**

Press@RunDepth: 40.58 psig @ 3925.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.18 End Date: 2014.06.18

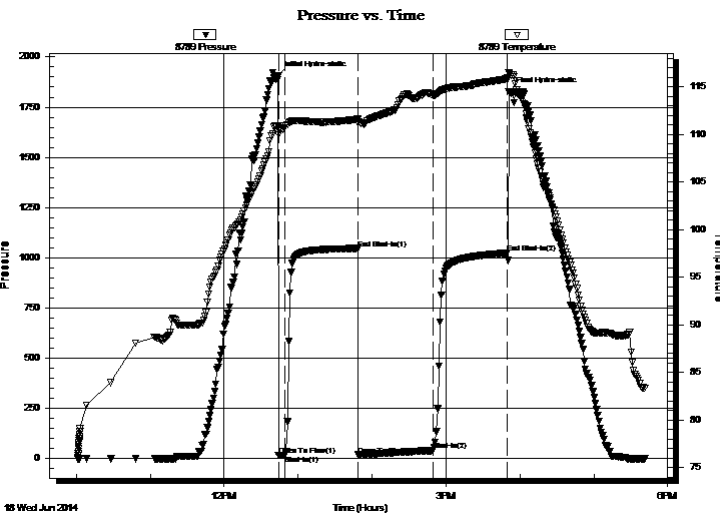
Last Calib.: 2014.06.18

Start Time: 10:01:02 End Time: 17:41:30

Time On Btm: 2014.06.18 @ 12:43:45

Time Off Btm: 2014.06.18 @ 15:51:00

**TEST COMMENT:** 5-IF-Weak surface blow  
60-ISI-No Return  
60-FF-No blow , w eak surface blow @ 25 mins, built to 1/8"  
60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.32	110.94	Initial Hydro-static
1	15.98	109.99	Open To Flow (1)
6	17.68	110.76	Shut-In(1)
65	1046.57	111.60	End Shut-In(1)
65	19.24	111.22	Open To Flow (2)
126	40.58	114.13	Shut-In(2)
186	1023.52	115.94	End Shut-In(2)
188	1829.19	116.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	M, 100% m with oil spots	0.10

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59383

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.18 @ 10:01:00

## Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 85.00 ft	Diameter: 2.25 inches	Volume: 0.42 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 54.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3924.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3897.00	
Shut In Tool	5.00			3902.00	
Hydraulic tool	5.00			3907.00	
Jars	5.00			3912.00	
Safety Joint	2.00			3914.00	
Packer	5.00			3919.00	28.00 Bottom Of Top Packer
Packer	5.00			3924.00	
Stubb	1.00			3925.00	
Recorder	0.00	8366	Inside	3925.00	
Recorder	0.00	8789	Outside	3925.00	
Perforations	26.00			3951.00	
Bullnose	3.00			3954.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59383

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.18 @ 10:01:00

### 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 5.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	M, 100% m w ith oil spots	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

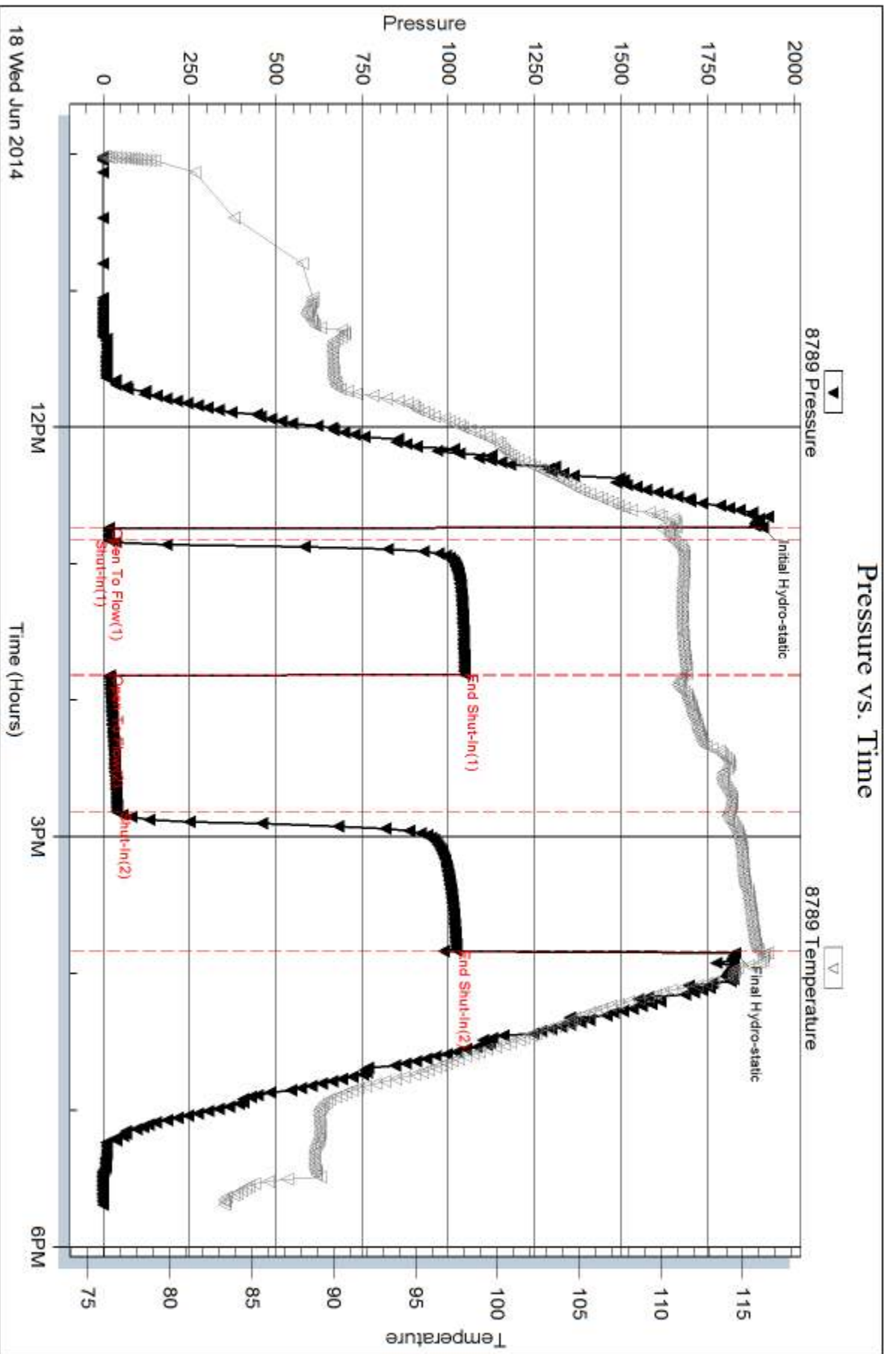
Serial #:

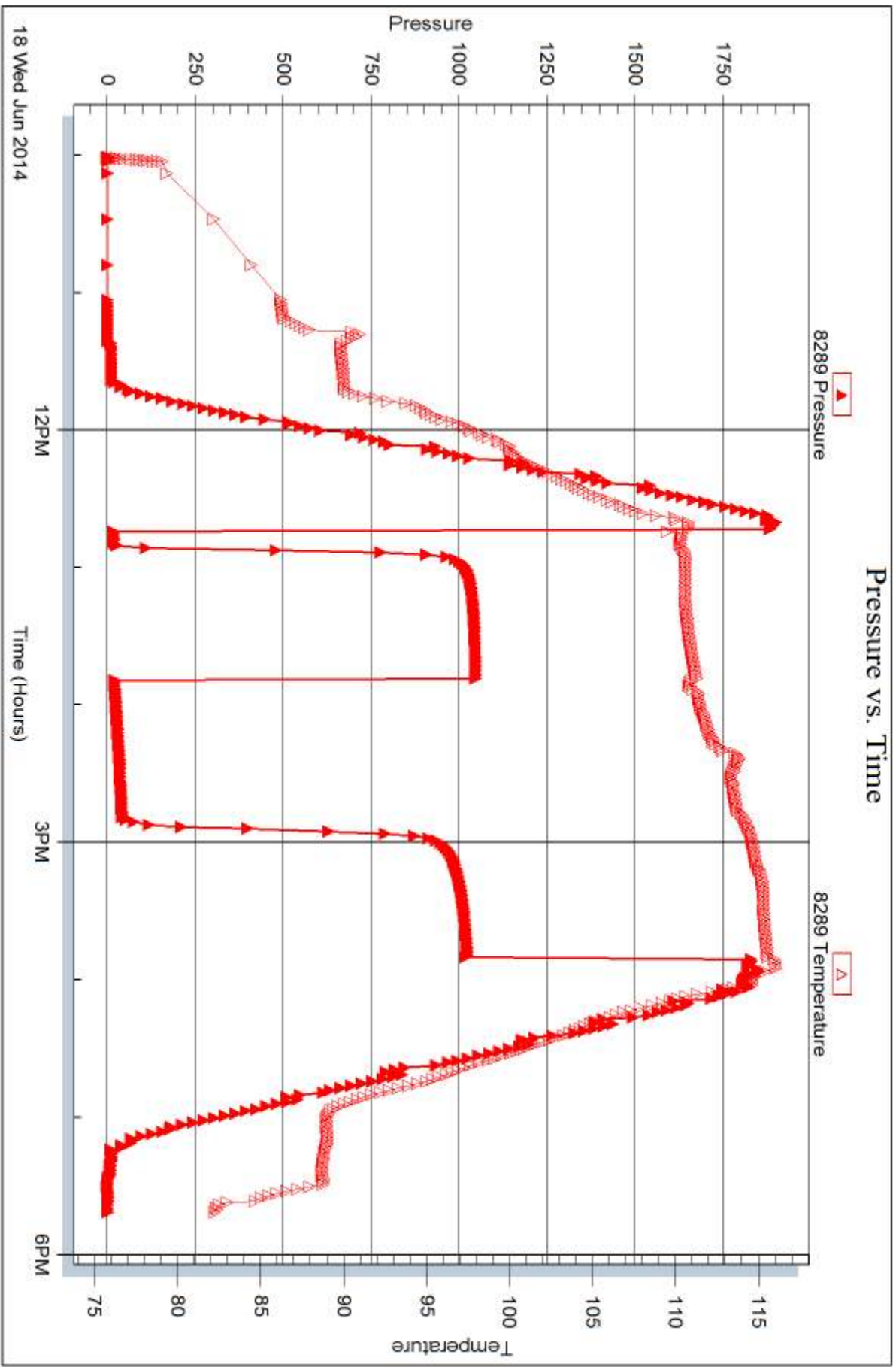
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E Central  
Wichita, KS 67206

ATTN: Dave Williams

### **Pfeifer "A" #1-27**

#### **27-10s-25w Graham, KS**

Start Date: 2014.06.19 @ 04:17:00

End Date: 2014.06.19 @ 13:06:00

Job Ticket #: 59258                      DST #: 3

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

Printed: 2014.06.23 @ 09:55:01



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59258

**DST#: 3**

ATTN: Dave Williams

Test Start: 2014.06.19 @ 04:17:00

## GENERAL INFORMATION:

Formation: **LKC "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:11:45

Time Test Ended: 13:06:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage/Jim Sva

Unit No: 76

**Interval: 3954.00 ft (KB) To 4018.00 ft (KB) (TVD)**

Reference Elevations: 2503.00 ft (KB)

Total Depth: 4018.00 ft (KB) (TVD)

2498.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: 462.28 psig @ 3983.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.19

End Date: 2014.06.19

Last Calib.: 2014.06.19

Start Time: 04:17:02

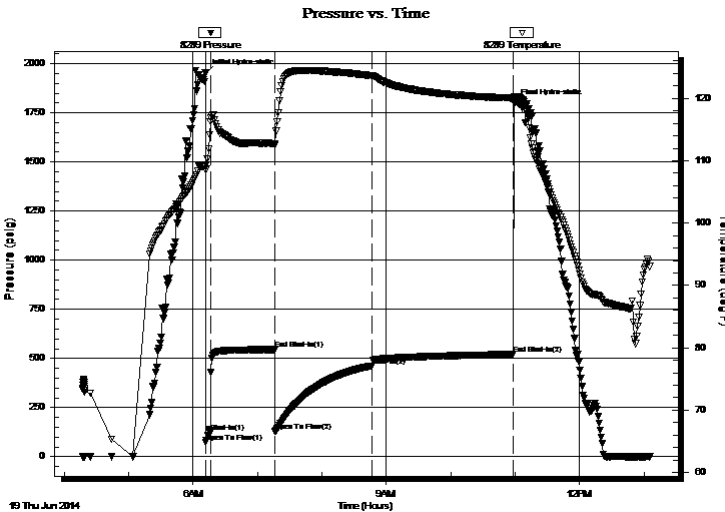
End Time: 13:06:00

Time On Btm: 2014.06.19 @ 06:11:30

Time Off Btm: 2014.06.19 @ 10:59:15

**TEST COMMENT:** 5-IF-Built to 11"  
60-ISI-No Return  
90-FF-BOB in 5 mins  
120-FSI-No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.26	109.16	Initial Hydro-static
1	75.06	108.45	Open To Flow (1)
5	126.59	116.24	Shut-In(1)
65	545.32	112.72	End Shut-In(1)
65	130.94	112.46	Open To Flow (2)
155	462.28	123.64	Shut-In(2)
287	520.90	120.03	End Shut-In(2)
288	1798.54	120.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
900.00	MCW 5% m 95% w	11.85
216.00	MCW 40% m 60% w	3.03

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59258

**DST#: 3**

ATTN: Dave Williams

Test Start: 2014.06.19 @ 04:17:00

## Tool Information

Drill Pipe:	Length: 3866.00 ft	Diameter: 3.80 inches	Volume: 54.23 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 85.00 ft	Diameter: 2.25 inches	Volume: 0.42 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 54.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3954.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	92.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3927.00	
Shut In Tool	5.00			3932.00	
Hydraulic tool	5.00			3937.00	
Jars	5.00			3942.00	
Safety Joint	2.00			3944.00	
Packer	5.00			3949.00	28.00 Bottom Of Top Packer
Packer	5.00			3954.00	
Stubb	1.00			3955.00	
Perforations	27.00			3982.00	
Change Over Sub	1.00			3983.00	
Recorder	0.00	8789	Inside	3983.00	
Recorder	0.00	8289	Outside	3983.00	
Drill Pipe	31.00			4014.00	
Change Over Sub	1.00			4015.00	
Bullnose	3.00			4018.00	64.00 Bottom Packers & Anchor

**Total Tool Length: 92.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McCoy Petroleum Corp.

**27-10s-25w Graham, KS**

9342 E Central  
Wichita, KS 67206

**Pfeifer "A" #1-27**

Job Ticket: 59258

**DST#: 3**

ATTN: Dave Williams

Test Start: 2014.06.19 @ 04:17:00

### 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:

23500 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 5.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
900.00	MCW 5%m 95%w	11.850
216.00	MCW 40%m 60%w	3.030

Total Length: 1116.00 ft      Total Volume: 14.880 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

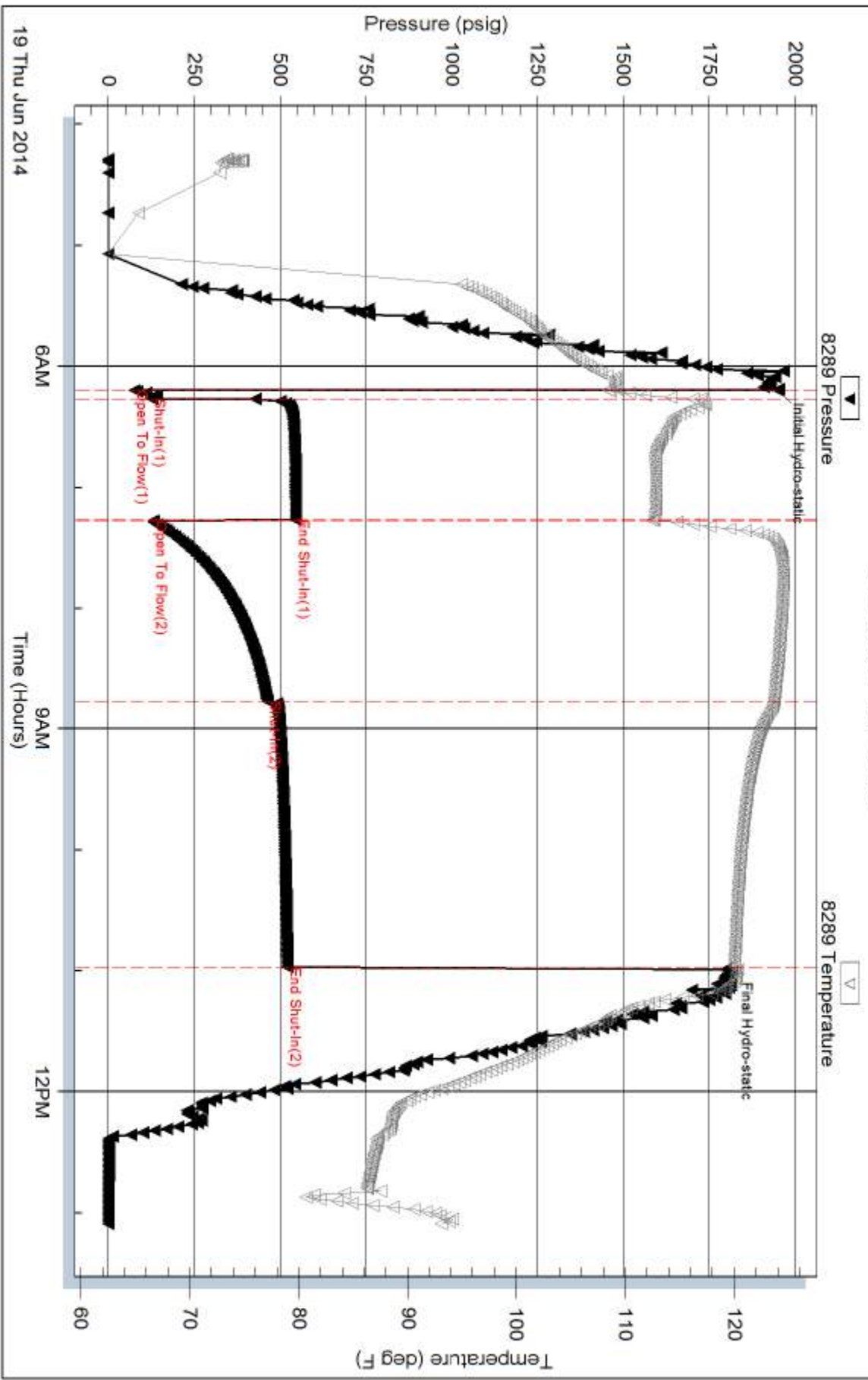
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .200 @ 98

### Pressure vs. Time





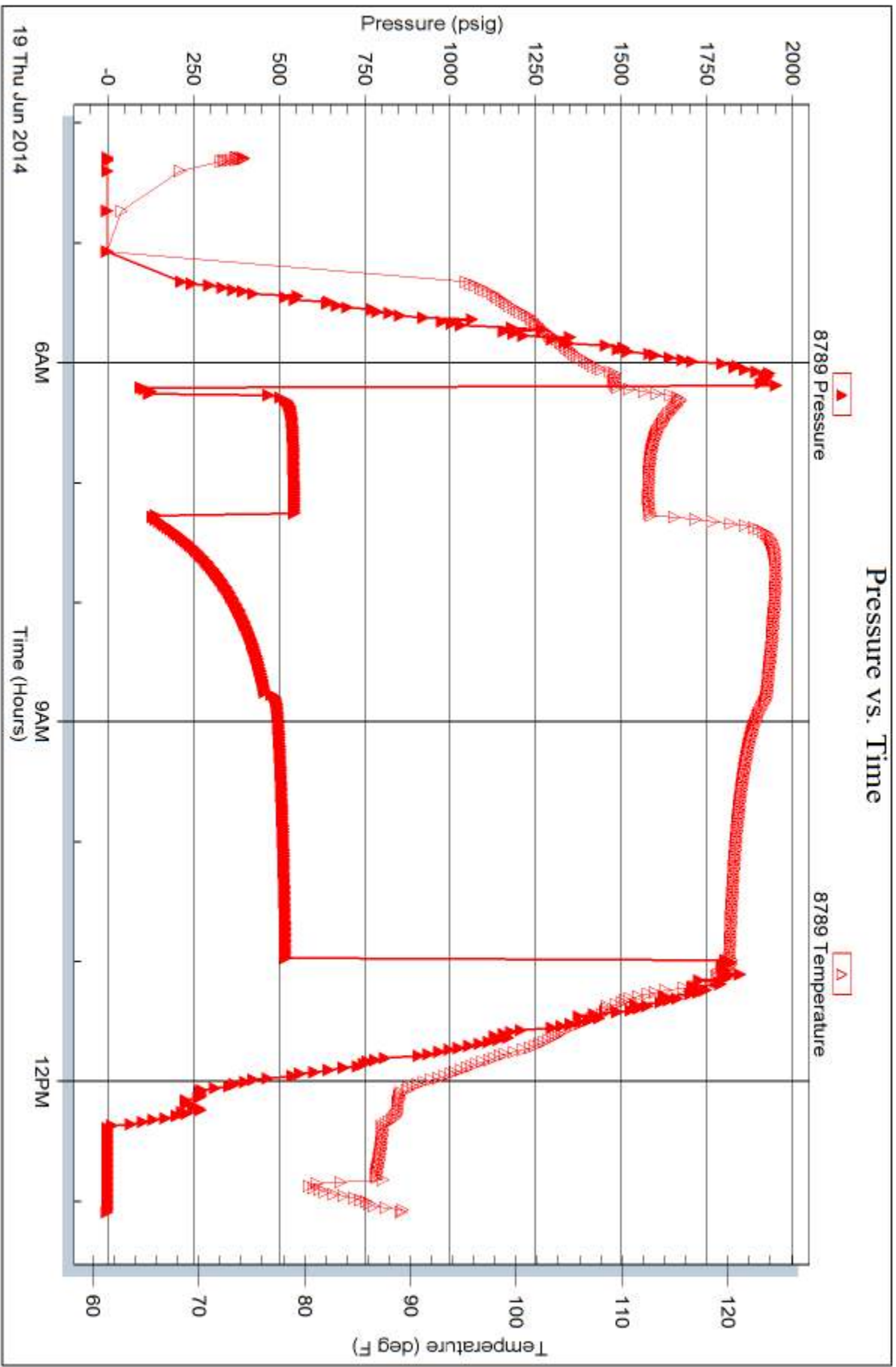
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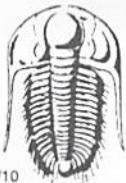
Inside

McCoy Petroleum Corp.

Prefer "A" #1-27

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59382

4/10

Well Name & No. Pfeifer "A" #1-27 Test No. 1 Date 6-17-14  
 Company McLoy Petroleum Corporation Elevation 2503 KB 2498 GL  
 Address 9342 E. Central Wichita, KS 67206  
 Co. Rep / Geo. Dave Williams / Scott Hampel Rig Martin 24  
 Location: Sec. 27 Twp. 10s Rge. 25w Co. Graham State KS

Interval Tested 3778 - 3806 Zone Tested Toronto  
 Anchor Length 28' Drill Pipe Run 3679 Mud Wt. 8.8  
 Top Packer Depth 3773 Drill Collars Run 85 Vis 60+  
 Bottom Packer Depth 3778 Wt. Pipe Run 0 WL 8.4  
 Total Depth 3806 Chlorides 800 ppm System LCM 3  
 Blow Description IF - Buite to 6 1/2"  
ISI - No Return  
FF - BOB in 8 min.  
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1066</u>	<u>MW, with oil spots</u>		<u>90</u>	<u>10</u>	
<u>50</u>	<u>MW, with oil spots</u>		<u>60</u>	<u>40</u>	

Rec Total 1116 BHT 122 Gravity — API RW 121 @ 101 °F Chlorides 46,000 ppm  
 (A) Initial Hydrostatic 1800  Test 1150 T-On Location 06:54  
 (B) First Initial Flow 23  Jars 250 T-Started 07:30  
 (C) First Final Flow 73  Safety Joint 75 T-Open 10:57  
 (D) Initial Shut-In 970  Circ Sub 50 T-Pulled 15:33  
 (E) Second Initial Flow 78  Hourly Standby 1h 100 T-Out 17:32  
 (F) Second Final Flow 534  Mileage 114 RT 176.70 Comments Dropped bar & reversed water out  
 (G) Final Shut-In 967  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1797  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1801.70 Sub Total 1801.70  
 Initial Open 5  
 Initial Shut-In 60  
 Final Flow 90  
 Final Shut-In 120  
 Sub Total 1801.70 Total 1801.70  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Philp Gray Thank You  
 Trilobite Testing Inc. shall not be liable for damaged or 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. 59383

Well Name & No. Pfeifer "A" #1-27 Test No. 2 Date 6-18-14  
 Company Nilon Petroleum Corporation Elevation 2503 KB 2498 GL  
 Address 9342 E. Central Wichita, KS 67206  
 Co. Rep / Geo. Dave Williams / Scott Hampel Rig Martin 24  
 Location: Sec. 27 Twp. 10s Rge. 25w Co. Graham State KS

Interval Tested 3924-3954 Zone Tested LKL "H"  
 Anchor Length 30' Drill Pipe Run 3836 Mud Wt. 9.1  
 Top Packer Depth 3919 Drill Collars Run 85 Vis 54  
 Bottom Packer Depth 3924 Wt. Pipe Run 0 WL 7.6  
 Total Depth 3954 Chlorides 4,100 ppm System LCM 5

Blow Description IF- Weak surface blow  
ISI- No Return  
FF- No Blow, Weak surface blow at 25 mins, Buite to 1/8"  
FISI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>M, with 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	Feet of	%gas	%oil	%water	%mud

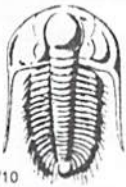
Rec Total 20' BHT 116 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1908  Test 1150 T-On Location 10:00  
 (B) First Initial Flow 15  Jars 250 T-Started 10:01  
 (C) First Final Flow 17  Safety Joint 75 T-Open 12:45  
 (D) Initial Shut-In 1046  Circ Sub \_\_\_\_\_ T-Pulled 15:50  
 (E) Second Initial Flow 19  Hourly Standby \_\_\_\_\_ T-Out 17:42  
 (F) Second Final Flow 40  Mileage 114 RT 176.70 Comments \_\_\_\_\_  
 (G) Final Shut-In 1023  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1829  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 5  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 60  Day Standby \_\_\_\_\_ Total 1651.70  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1651.70

Approved By \_\_\_\_\_ Our Representative Phil Gray Thank You

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. 59258

Well Name & No. Pfeifer "A" #1-27 Test No. 3 Date 6-19-14  
 Company McCoy Petroleum Corporation Elevation 2503 KB 2498 GL  
 Address 9342 E Central Wichita, KS 67206  
 Co. Rep / Geo. Dave Williams / Scott Hampel Rig Murfin 24  
 Location: Sec. 27 Twp. 10S Rge. 25W Co. Graham State KS

Interval Tested 3954-4018 Zone Tested LKC "EJ-k-1"  
 Anchor Length 64' Drill Pipe Run 3866 Mud Wt. 9.1  
 Top Packer Depth 3949 Drill Collars Run 85 Vis 54  
 Bottom Packer Depth 3954 Wt. Pipe Run 0 WL 7.6  
 Total Depth 4018 Chlorides 4,100 ppm System LCM 5  
 Blow Description IF Buds to 11"  
ISI No Return.  
FF Bob in 5mins  
FSI No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>900</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	<u>5</u>
<u>216</u>	<u>mcw</u>		<u>60</u>	<u>40</u>	

Rec Total 1116 BHT 120 Gravity \_\_\_\_\_ API RW 200 @ 98 °F Chlorides 23500 ppm  
 (A) Initial Hydrostatic 1949  Test 1250 T-On Location 04:16  
 (B) First Initial Flow 75  Jars 250 T-Started 04:17  
 (C) First Final Flow 126  Safety Joint 75 T-Open 06:11  
 (D) Initial Shut-In 545  Circ Sub \_\_\_\_\_ T-Pulled 10:46  
 (E) Second Initial Flow 130  Hourly Standby \_\_\_\_\_ T-Out 13:06  
 (F) Second Final Flow 462  Mileage 114RT X 2 Comments PU Tool 3:00 AM 6-20  
 (G) Final Shut-In 520  Sampler 353.40 Spit Test  
 (H) Final Hydrostatic 1798  Straddle \_\_\_\_\_ 50/50

Initial Open 5  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Shale Packer \_\_\_\_\_  
 Final Flow 90  Extra Packer \_\_\_\_\_  
 Final Shut-In 120  Extra Recorder \_\_\_\_\_  
 Sub Total 1928.40  Day Standby \_\_\_\_\_  
 Total 1928.40  Accessibility \_\_\_\_\_  
 Sub Total 1928.40  MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Philp Gray  
 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.





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

**Well Name:** PFEIFER "A" # 1-22  
**Location:** NW - NW - NE of Sec. 22 - T. 10 S. - R. 25 W.  
**License Number:** A.P.I. #15 - 065 - 24,044 - 00 - 00  
**Spud Date:** 06/13/2014  
**Surface Coordinates:** SPOT: 330' FNL & 2310' FEL

**Region:** GRAHAM CO., KS.  
**Drilling Completed:** 06/20/2014

**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 2498'                      **K.B. Elevation (ft):** 2503'  
**Logged Interval (ft):** 221'                      **To:** 4100'                      **Total Depth (ft):** 4100'  
**Formation:** Base Kansas City  
**Type of Drilling Fluid:** CHEMICAL/POLYMER/GEL. & MUD DISPLACEMENT @ 3406'.  
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

**Company:** McCOY PETROLEUM CORPORATION KCC LIC. NO. # 5003  
**Address:** 9342 E. CENTRAL  
WICHITA, KANSAS 67206

**GEOLOGIST**

**Name:** DAVID P. WILLIAMS, P.G., KS. LIC. # 88  
**Company:** DW ENERGY, LLC (DWE)  
**Address:** 312 N. BROADVIEW STREET  
WICHITA, KANSAS 67208

**Casing & Deviation Surveys:**

Spud at 3:30 PM 6/16/2014. 8 5/8" Surface Casing (23#) was set and cemented in place. Tally 211.88'. Set @ 221' KB. Cemented with 160 sacks Common, 3% cc & 2% cf. Cement Did Circulate. Allied Cementing.

Deviation Survey's Taken: @ 221'= 1/2 degree; @ 3806'= 3/4 degree; @ 4100' = 3/4 degree.

## DSTs

~~DST #1~~ Interval:3778'-3806'. Times: 5"-60"-90"-150"; Blow:=Fair/ 6.5". No Blow Pack. FF= BOB/8". No Blow Back During FSIP.

Recovery: 1116' TF: 1066' MW wOS (90% W & 10% M); & 50" MW w/OS (60% W & 40% M).

Pressures: IH=1800#; FH=1717#; IF=23-73#; FF=78-535#; ISIP= 970#; FSIP=967#; TEMP.=122 degrees F.; CHL.=46,000 Ppm.; API RW=.171 @ 101 degrees F..

~~DST #2~~ Interval:3924'-3954'. Times: 5"-60"-90"-120"; Blow:=Weak= 1/8". No Blow Back. FF=No Blow Inc. to Weak @ 25"= 1/8". No Blow Back During FSIP.

Recovery: 20' M w/OS (100% M).

Pressures: IH=1908#; FH=1829#; IF=15-17#; FF=19-40#; ISIP= 1046#; FSIP=1023#; TEMP.=116 degrees F.

~~DST #3~~ Interval: 3954'-4018'. Times: 5"-60"-90"-120"; IF-Blow:=Strong/11". No Blow Back. FF= BOB/5". No Blow Back During FSIP.

Recovery: 1116' TF: 900' MW (95% W & 5% M); 216' MW (60% W & 40% % M).

Pressures: IH =1949#; FH=1798#; IF=75-126#; FF=130462#; ISIP= 545#; FSIP= 462#; TEMP.=120 degrees F.; CHL.=23,500 Ppm.; API RW=200 @ 98 degrees F..


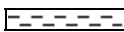

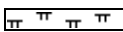
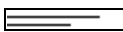
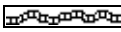




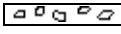







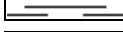
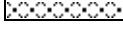
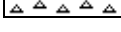
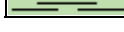

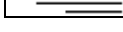
## Comments

After review of all geologic samples as examined, structural correlation to offsetting prior drilled wells, combined with the fluid and pressures results from the drill stem test taken, it was determined by all parties that this well appears to be non-commercial and should be plugged and abandoned.










































































Respectfully submitted,

David P. Williams, P.G. Kansas #88

## ROCK TYPES

 Anhy	 Clyst	 Gry shale	 Mrlst	 Shgy
 Bent	 Coal	 Gyp	 Red shale	 Sltst
 Brec	 Congl	 Igne	 Salt	 Ss
 Carb sh	 Dol	 Lmst	 Shale	 Till
 Cht	 Grn sh	 Meta	 Shcol	

## ACCESSORIES

<b>MINERAL</b>			
 Anhy	 Hvymin	 Belm	 Pellet
 Arggrn	 Kaol	 Bioclst	 Pisolite
 Arg	 Marl	 Brach	 Plant
 Bent	 Minxl	 Bryozoa	 Strom
 Bit	 Nodule	 Cephal	
 Brecfrag	 Phos	 Coral	<b>STRINGER</b>
 Calc	 Pyr	 Crin	 Anhy
 Carb	 Salt	 Echin	 Arg
 Chtdk	 Sandy	 Fish	 Bent
 Chtlt	 Silt	 Foram	 Coal
 Dol	 Sil	 Fossil	 Dol
 Feldspar	 Sulphur	 Fuss	 Grysh
 Ferrpel	 Tuff	 Gastro	 Gyp
 Ferr	<b>FOSSIL</b>	 Oolite	 Ls
 Glau	 Algae	 Oomold	 Mrst
 Gyp	 Amph	 Pelec	 Sltstrg
			 Ssstrg
			<b>TEXTURE</b>
			 Boundst
			 Chalky
			 Cryxln
			 Earthy
			 Finexln
			 Grainst
			 Lithogr
			 Microxln
			 Mudst
			 Packst
			 Wackest

**OTHER SYMBOLS**

- POROSITY**
- [E] Earthy
  - [B] Fenest
  - [F] Fracture
  - [X] Inter
  - [Z] Moldic
  - [O] Organic
  - [P] Pinpoint

- [V] Vuggy
- SORTING**
- [W] Well
  - [M] Moderate
  - [P] Poor

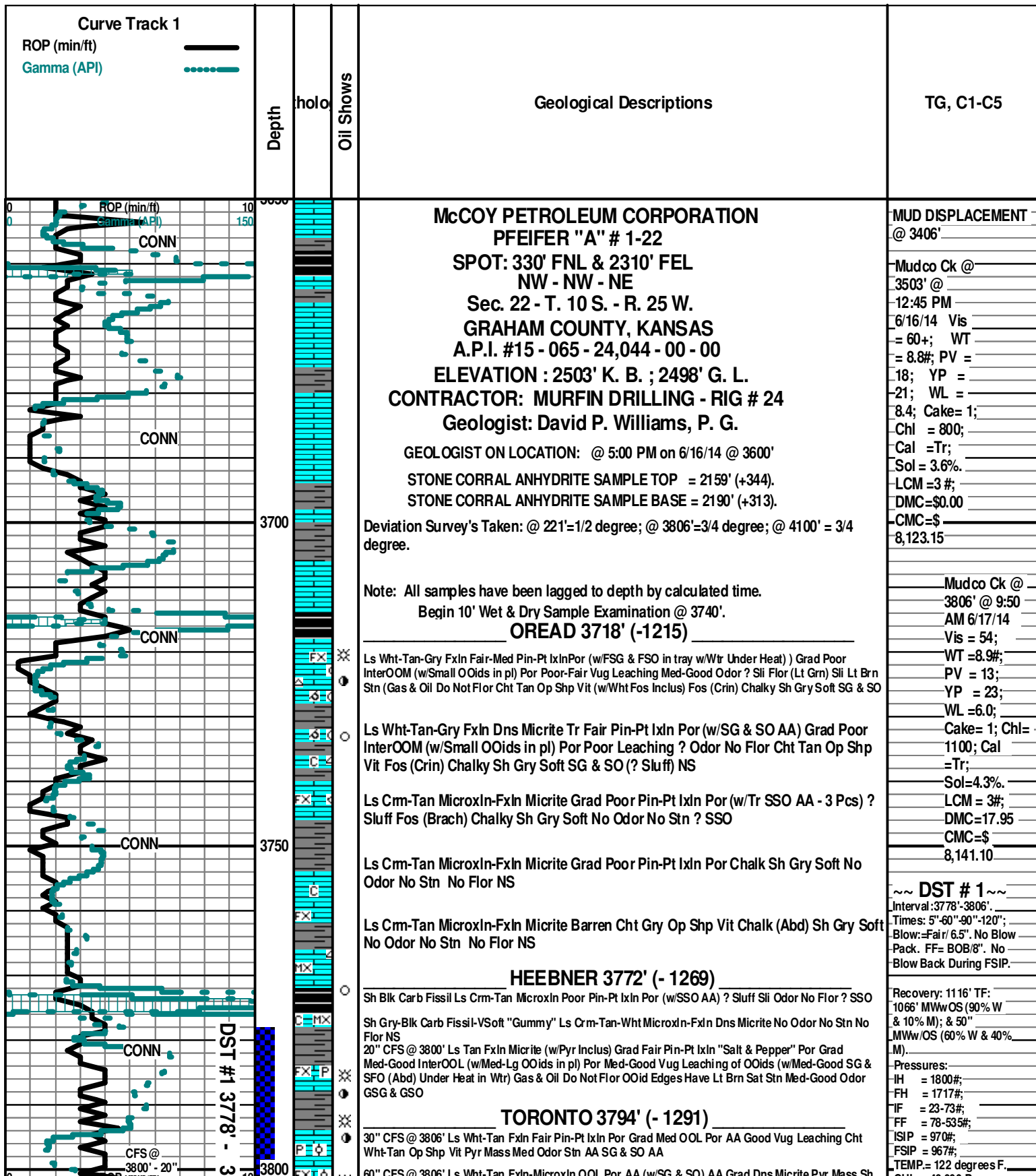
- ROUNDING**
- [R] Rounded
  - [r] Subrnd
  - [a] Subang
  - [A] Angular

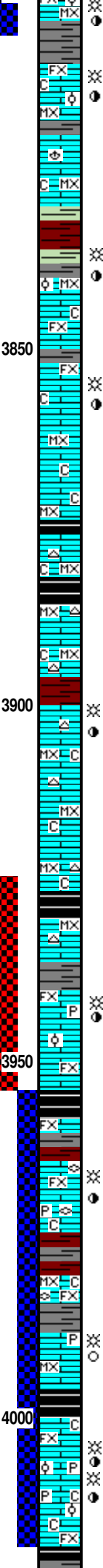
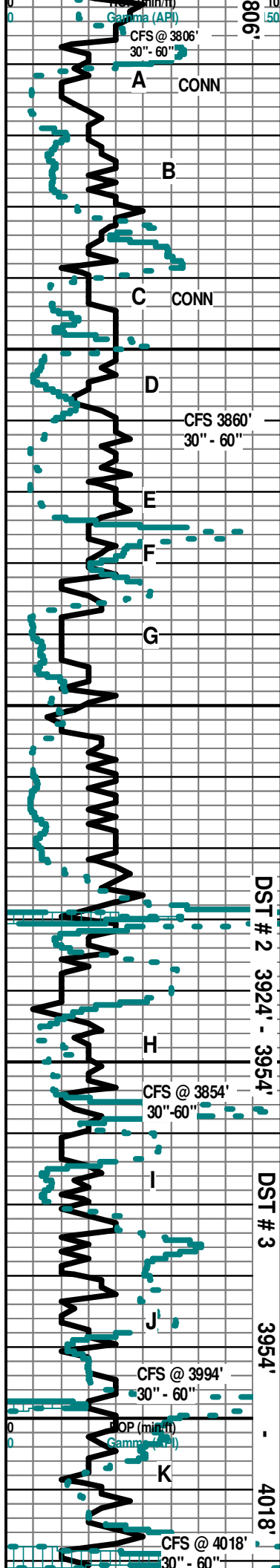
- [●] Even
- [○] Spotted
- [○] Ques
- [□] Dead

- EVENT**
- [▽] Rft
  - [▶] Sidewall

- OIL SHOW**
- [\*] Gas show

- INTERVAL**
- [■] Dst
  - [■] Dst\_alt





**LANSING 3810' (- 1307)**

Ls Wht FxIn-MicroIn Dns Micrite Grad Poor-Fair OOL Por (w/Small-Med OOids in pl) Poor-Fair Disolu Poor-Fair Develop (w/SG & SO Under Heat in Wtr) Chalk Sh Gry Soft "Gummy" Sil Odor No Flor Sli Scat Stn (5 Pcs) SG & SO

Ls Wht MicroIn Dns Micrite Fos (Brach) Chalk Sh Gry Soft No Odor No Stn No Flor NS

Sh Red-Gry/Grn-Char Fissil-Soft (Wash Red Abd) Ls Wht MicroIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Grad Poor-Fair OOL Por (Small OOids Poor Leaching (5 Pcs w/SSG & SSO) Chalk No Odor No Stn No Flor NS

Ls Wht MicroIn-FxIn Dns Micrite Grad Poor-Fair OOL Por (w/Small OOids in pl) Poor Disolu Poor Develop (w/SSG & SSO AA) Chalk Sh Gry Soft Med-Good Odor No Flor Scat Lt Brn Stn SSG & SSO

30" CFS @ 3860' Ls Wht-Crm FxIn Fair-Med IxIn "Salt & Pepper" Vug Leached Por (w/Med SG & Med SO) Grad Poor-Fair OOL Por (w/Small OOids in pl) Med InterOOL Por (w/SG & SO) Strong Odor No Flor Fair Drk Brn Stn ? Gillsomite (1 Pc) MSG & MSO

60" CFS @ 3860' Ls Wht-Crm FxIn Fair-Med IxIn "Salt & Pepper" Vug Leached Por (w/Med SG & Med SO) Grad Poor-Fair OOL Por (w/Small OOids in pl) Med InterOOL Por (w/SG & SFO) Chalk Strong Odor No Flor Fair Drk Brn Stn GSG & GSO

**Ls Wht Dns MicroIn Micrite Grad Poor-Fair IxIn Por (w/Poor-Med Vug Leaching) Scat Stn (Lt Brn) AA Vit Chalky ? Faint Odor No Stn No Flor NS**

Sh Blk Carb-Char-Gry Ls Wht-Tan MicroIn Dns Micrite Barren Cht Wht Op Shp Vit Chalky No ? Faint Odor No Stn No Flor NS

Sh Blk Carb-Char-Red-Grn Soft (Wash Red) Ls Wht-Tan MicroIn Dns Micrite Barren Cht Wht Op Shp Vit Chalky No ? Faint Odor No Stn No Flor NS

Sh Char-Red-Grn Soft (Wash Red) Ls Wht-Tan MicroIn Dns Micrite Barren Cht Wht-Gry Op Shp Vit Chalky ? Faint Odor No Stn No Flor NS

Ls Wht-Tan MicroIn Dns Micrite Barren Grad Fair-Med IxIn-Vug Por Fair- Med Vug Dissolu (w/SG & SO) Cht Wht-Gry Op Shp Vit Chalky ? Faint Odor No Stn No Flor NS

Ls Wht MicroIn Dns Micrite Barren Cht Wht-Gry Op Shp Vit Chalky No Odor No Stn No Flor NS

Ls Wht MicroIn Dns Micrite Barren Cht Wht-Gry Op Shp Vit Chalky No Odor No Stn No Flor NS

**MUNCIE CREEK 3927' (- 1424)**

Sh Blk Carb Fissil Ls Wht-Tan MicroIn Dns Micrite Barren Cht Wht-Gry Op Shp Vit Chalky No Odor No Stn No Flor NS

30" CFS @ 3954' Ls Wht-Tan FxIn Fair Pin-Pt IxIn Por Grad Med IxIn Vug Leached Por Grad Med InterOOL Por (w/Med-Good SG & SFO) Pyr Mass Lt Brn-Drk Blk Stn Faint Flor (Lt Grn) Fair Odor Fair-Med SG & SO

60" CFS @ 3954' Ls Wht-Tan FxIn Poor Pin-Pt IxIn Por Grad Poor IxIn Vug Leached Por (w/Poor SG & SO) Chalky Lt Brn-Drk Blk Stn Dec No Flor ? Faint Odor Grad Dns Micrite SG & SO Dec

Ls Wht FxIn Fair Pin-Pt IxIn Por Grad Med IxIn Vug Leached Fos (Fuss Inklus) Por Grad Med InterOOL Por (w/Med-Good SG & SFO) Sh Red-Char- Gry-Aqua Soft (Wash Red) Lt Brn-Drk Blk Stn ? Flor ? Sli Odor Poor-Fair SG & SO

Sh Red-Char-Gry-Aqua Soft (Wash Red) Ls Wht FxIn Fair Pin-Pt IxIn Por Grad Fair IxIn Vug Leached Fos (Fuss Inklus) Por Grad Poor-Fair InterOOL Por(w/Med SG & SFO) Pyr Mass Lt Brn-Drk Blk Stn AA Chalk Sli ? Odor Fair SG & SO

30" CFS @ 3994' Sh Red-Char-Gry-Aqua Soft (Wash Red) Ls Wht FxIn Fair Pin-Pt IxIn Por Grad Fair IxIn Vug Leached Fos (Fuss Inklus) Por Grad MicroIn Dns Micrite Pyr Mass ? Lt Brn-Drk Blk Stn (Few Pcs Mostly Barren) Chalk No Odor NS

60" CFS @ 3994' Ls Wht-Tan-Gry MicroIn Dns Micrite Grad Poor IxIn Vug Por Poor Leaching (w/? Few Pcs w/? Pin-Pt IxIn Por (w/VSSG & VSSO) Lt Brn-Drk Blk Stn Chalk Sh Red-Char-Gry Soft (Wash Red) No Odor ? Sli VSSG & VSSO

**STARK 3997' (- 1494)**

30" CFS @ 4018' Ls Wht-Gry FxIn Fair-Med Pin-Pt IxIn Por Grad Med IxIn Vug Leached Por Grad Med InterOOL Por (w/Small-Med OOids in pl) (w/Med-Good SG & SFO Under Pressure & Heated Wtr) Pyr Mass Charky Sh Gry Soft "Gummy"Drk Oil Drk Blk Stn Fair Flor (Lt Grn) Fair-Med Odor Med-Good SG & SO

60" CFS @ 4018' Ls Wht-Gry FxIn Fair-Med Pin-Pt IxIn Por Grad Fair IxIn Vug Leached Por Grad Fair InterOOL Por (w/Small OOids in pl) (w/Fair SG & SFO AA) Grad Dns Micrite Pyr Mass Chalky Sh Gry Soft "Gummy" Drk Oil Drk Blk Stn Fair Flor (Lt Grn) Poor-Fair Odor SG & SO

**HUCKPUCKNEY 4018' (- 1515)**

Sh Grn/Char (w/Char Incls) Red (Abd) Blk Carb Fissil Soft Ls Wht-Tan FxIn MicroIn Dns Micrite Barren Cht Wht Op Shp Vit Chalky No ? Faint Odor No Stn No Flor NS

CHL = 46,000 Ppm.  
API RW = .171 @ 101 degrees F..

PIPE STRAP = <math>-0.91'</math>  
LONG TO BOARD.

Mudco Ck @ 3954' @ 9:10 AM 6/18/14

Vis = 54;  
WT = 9.1#;  
PV = 12;  
YP = 27;  
WL = 7.6; Cake = 1;

Chl = 4100;  
Cal = 40;  
Sol = 5.5;  
LCM = 5#;  
DMC = \$1,280.30  
CMC = \$9,421.40  
8,141.10

**~ DST #2 ~**

Interval: 3924'-3954'.  
Times: 5'-60"-60"-60";  
Blow: Weak = 1/8". No Blow Back. FF = No Blow Inc. to Weak @ 25" = 1/8". No Blow Back During FSIP.

Recovery: 20' M w/OS (100% M);

Pressures:  
IH = 1908#;  
FH = 1829#;  
IF = 15-17#;  
FF = 19-40#;  
ISIP = 1046#;  
FSIP = 1023#;  
TEMP = 116 degrees F..

Mudco Ck @ 4018' @ 8:00 PM 6/19/14

Vis = 60+;  
WT = 9.1#;  
PV = 19;  
YP = 20;  
WL = 7.6;  
Cake = 1;  
Chl = 2400;  
Cal = Tr.;  
Sol = 5.6;  
LCM = 5#;  
DMC = \$577.85;  
CMC = \$9,999.25

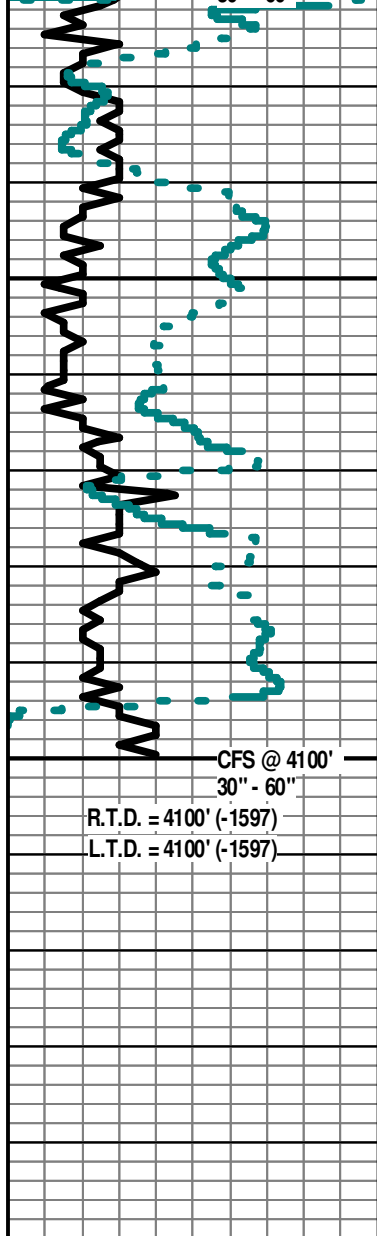
**~ DST #3 ~**

Interval: 3954'-4018'. Times: 5'-60"-90"-120";  
IF-Blow: Strong/11". No Blow Back. FF = BOB/5". No Blow Back During FSIP.

Recovery: 1116' TF:  
90' MW (95% W & 5% M); 216' MW (60% W & 40% M).

Pressures:  
IH = 1949#;  
FH = 1798#;  
IF = 75-126#;  
FF = 130-462#;





Sh Grn/Gry (w/Carb Inklus)-Red (Abd)-Blk Carb Fissil-Soft Ls Wht-Tan Fxin-Microxin  
 Dns Micrite Grad Poor Pin-Pt lxdn Vug Por Barren Chalky No Odor No Stn No Flor NS

Ls Wht-Crm MicroIn Dns Micrite Cht Wht (w/Org-Peach Inklus) Op Shp Vit Chalky  
 Sh Red-Char-Grn/Gry Soft-Fissil No Odor No Stn No Flor NS

**BASE KANSAS CITY 4040' (- 1537)**

Sh Grn/Gry (w/Carb Inklus)-Red (Abd) Fissil-Soft Ls Wht-Tan MicroIn Dns Micrite  
 Chalk Wht-Gry (VAbd ? Sh Gry "Gummy") VSoft Pyr Mass No Odor No Stn No Flor NS

Sh Grn/Gry (w/Carb Inklus)-Red (Abd) Fissil-Soft Ls Wht-Tan MicroIn Dns Micrite  
 Chalk Wht-Gry (VAbd ? Sh Gry "Gummy") VSoft Pyr Mass No Odor No Stn No Flor NS

Ls Wht-Crm MicroIn Dns Micrite Chalky Sh Red-Char-Grn/Gry Soft-Fissil No Odor  
 No Stn No Flor NS

Ls Wht-Crm MicroIn Dns Micrite Chalky Sh Red-Char-Grn/Gry Soft-Fissil No Odor  
 No Stn No Flor NS

30" CFS @ 4100' Ls Wht-Crm-Gry Microxin Dns Micrite Qtz Ss Wht-Gru VFGrn Well  
 Rd Well Sort CaCo3 Cmt Poor IGran Por Barren Chalky Sh Red-Char-Grn/Gry  
 Soft-Fissil No Odor No Stn No Flor NS

60" CFS @ 4100' Qtz Ss Wht-Gru VFGrn Well Rd Well Sort CaCo3 Cmt Poor IGran  
 Por Barren Ls Wht-Crm MicroIn Dns Micrite Chalky Fos (Brach)Sh  
 Red-Char-Grn/Gry Soft-Fissil No Odor No Stn No Flor NS

Pioneer Wireline Log Run : Radiation Guard.

Geologist left Location at: 8:00 AM on 6/20/2014

ISIP = 545#;  
 FSIP = 462#;  
 TEMP.= 120 degrees F..  
 CHL. = 23500 Ppm.  
 API RW = .200 @ 98 degrees F..

CFS @ 4100'  
 30" - 60"  
 R.T.D. = 4100' (-1597)  
 L.T.D. = 4100' (-1597)



# ALLIED OIL & GAS SERVICES, LLC 063578

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
great Bend

DATE <u>6-20-14</u>	SEC. <u>27</u>	TWP. <u>10</u>	RANGE <u>25</u>	CALLED OUT <u>2:30 am</u>	ON LOCATION <u>6:00 am</u>	JOB START <u>10:00 am</u>	JOB FINISH <u>11:00 am</u>
LEASE <u>prefer A</u>		WELL # <u>1-27</u>		LOCATION <u>st peter 25 w center</u>		COUNTY <u>graham</u>	STATE <u>K2</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Murphy 24  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 T.D. 4100  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 2160  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

OWNER same  
 CEMENT  
 AMOUNT ORDERED 265 m 60140 4% gel & filler

EQUIPMENT

PUMP TRUCK CEMENTER Master King  
 #366 HELPER john ellis  
 BULK TRUCK  
 #610-170 DRIVER Kevin weightman  
 BULK TRUCK  
 # DRIVER \_\_\_\_\_

COMMON	@	_____
POZMIX	@	_____
GEL	@	_____
CHLORIDE	@	_____
ASC	@	_____
<u>2655x 60140+4%</u>	@	<u>18.92 5,013.80</u>
<u>Flt Seal 67</u>	@	<u>2.97 198.89</u>
<u>Materials total</u>	@	<u>_____</u>
<u>Duci</u>	@	<u>25% 5,212.77</u>
<u>Sewell</u>	@	<u>_____</u>
HANDLING <u>284.65</u>	@	<u>2.48 705.93</u>
MILEAGE <u>11.88x60x</u>	@	<u>2.75 1,960.20</u>

REMARKS:

1st plug @ 2160' 10 H2O mix 50% 3.5 H2O  
23.96 mud 2nd plug @ 1250' 10 H2O  
mix 100% 3.5 H2O @ 7.26 mud  
3rd plug @ 270' 1.5 H2O mix 50  
2x 3 H2O 4th plug @ 40' mix 10% 15%  
plug Rat hole 30% mouse hole

DEPTH OF JOB <u>2160</u>	_____
PUMP TRUCK CHARGE <u>2,483.57</u>	_____
EXTRA FOOTAGE	@ _____
MILEAGE <u>Hum 60</u>	@ <u>7.70 462.00</u>
MANIFOLD	@ _____
<u>Hum 60</u>	@ <u>4.40 264.00</u>

CHARGE TO: McCoy petroleum corp.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 5,875.72  
 25% 1,468.93

*thank you!*  
 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.

PLUG & FLOAT EQUIPMENT

<u>wooden plug</u>	<u>110.00</u>
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____

0% TOTAL 110.00

PRINTED NAME X Anthony Martin  
 SIGNATURE X Anthony Martin

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 11,198.51  
 DISCOUNT 2,772.13 (25/25%)  
 IF PAID IN 30 DAYS  
8,426.38