



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1231004  
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: \_\_\_\_\_

1231004

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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McKINNEY TRUST "A" #3-23  
API#: 15-097-21797

ACO-1 Supplemental Information

SAMPLE TOPS

McCoy Petroleum  
McKinney Trust 'A' #3-23  
180'N of SE SE SE  
510'FSL & 330'FEL  
Sec 23-30s-19w  
KB: 2252'

	Depth	Datum
LeCompton "B"	4033	-1781
Queen Hill	4071	-1819
Heebner	4257	-2005
Toronto	4275	-2023
Douglas	4293	-2041
Brown Lime	4440	-2188
Lansing	4459	-2207
Lansing "B"	4481	-2229
Lansing "F"	4578	-2326
Kansas City "H"	4633	-2381
Kansas City "J"	4747	-2495
Stark	4785	-2533
Hushpuckney	4840	-2588
Marmaton	4932	-2680
Pawnee	4974	-2722
Cherokee	5014	-2762
Mississippian	5082	-2830
Spergen	5116	-2864
Warsaw	5140	-2888
Warsaw Pors.	5146	-2894
RTD	5225	-2973

LOG TOPS

McCoy Petroleum  
McKinney Trust 'A' #3-23  
180'N of SE SE SE  
510'FSL & 330'FEL  
Sec 23-30s-19w  
KB: 2252'

	Depth	Datum
LeCompton "B"	4030	-1778
Queen Hill	4068	-1816
Heebner	4252	-2000
Toronto	4271	-2019
Douglas	4290	-2038
Brown Lime	4434	-2182
Lansing	4455	-2203
Lansing "B"	4476	-2224
Lansing "F"	4574	-2322
Kansas City "H"	4628	-2376
Kansas City "J"	4742	-2490
Stark	4786	-2534
Hushpuckney	4835	-2583
Marmaton	4927	-2675
Pawnee	4970	-2718
Cherokee	5010	-2758
Mississippian	5077	-2825
Spergen	5112	-2860
Warsaw	5133	-2881
Warsaw Pors.	5140	-2888
LTD	5218	-2966



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corporation**

9342 E. Central  
Wichita KS 67206-2573

ATTN: Scott Hampel

**23-30s-19w Kiowa,KS**

**McKinney Trust "A" #3-23**

Start Date: 2014.08.11 @ 20:45:00

End Date: 2014.08.12 @ 06:27:00

Job Ticket #: 60334                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.20 @ 09:52:24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corporation

**McKinney Trust "A" #3-23**

9342 E. Central  
Wichita KS 67206-2573

**23-30s-19w Kiowa,KS**

ATTN: Scott Hampel

Job Ticket: 60334

**DST#: 1**

Test Start: 2014.08.11 @ 20:45:00

## GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:12:00

Time Test Ended: 06:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 5088.00 ft (KB) To 5132.00 ft (KB) (TVD)**

Reference Elevations: 2253.00 ft (KB)

Total Depth: 5132.00 ft (KB) (TVD)

2239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 14.00 ft

**Serial #: 8524 Inside**

Press@RunDepth: 99.83 psig @ 5128.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.11

End Date:

2014.08.12

Last Calib.:

2014.08.12

Start Time: 20:46:00

End Time:

06:27:00

Time On Btm:

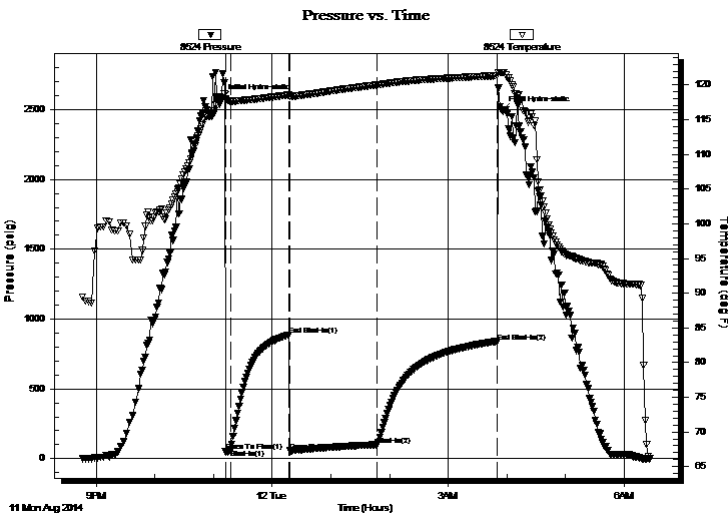
2014.08.11 @ 23:08:00

Time Off Btm:

2014.08.12 @ 03:55:00

**TEST COMMENT:** IFP 5 Good blow built to bottom of bucket in 3 minutes and 25 seconds.  
ISI 60 No blow back.  
FFP 90 Good blow built to bottom of bucket in 5 minutes and 30 seconds.  
FSI 120 No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2580.93	118.19	Initial Hydro-static
4	52.50	117.98	Open To Flow (1)
10	67.64	117.68	Shut-In(1)
69	886.56	118.56	End Shut-In(1)
70	56.13	118.38	Open To Flow (2)
160	99.83	120.00	Shut-In(2)
282	833.52	121.34	End Shut-In(2)
287	2495.38	121.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	474 foot Gas	0.00
156.00	100% Mud w ith trace Oil.	0.77

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corporation

**McKinney Trust "A" #3-23**

9342 E. Central  
Wichita KS 67206-2573

**23-30s-19w Kiowa,KS**

ATTN: Scott Hampel

Job Ticket: 60334

**DST#: 1**

Test Start: 2014.08.11 @ 20:45:00

## GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:12:00

Time Test Ended: 06:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 5088.00 ft (KB) To 5132.00 ft (KB) (TVD)**

Reference Elevations: 2253.00 ft (KB)

Total Depth: 5132.00 ft (KB) (TVD)

2239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 14.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 840.48 psig @ 5129.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.11

End Date:

2014.08.12

Last Calib.:

2014.08.12

Start Time: 20:46:00

End Time:

06:28:00

Time On Btm:

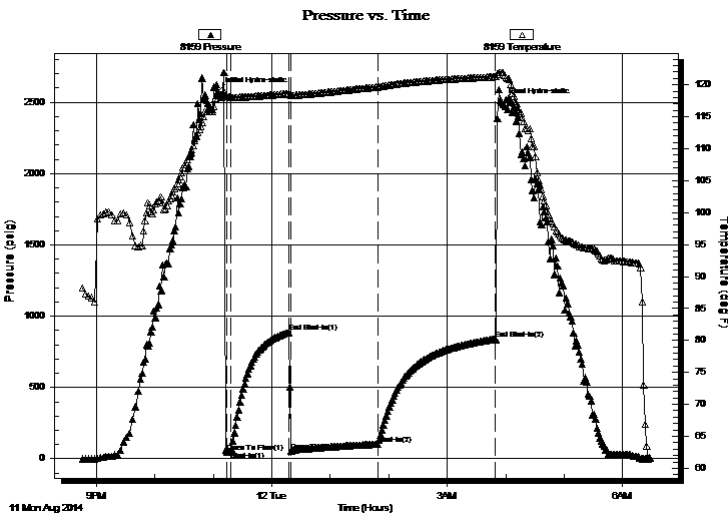
2014.08.11 @ 23:05:00

Time Off Btm:

2014.08.12 @ 03:56:00

**TEST COMMENT:** IFP 5 Good blow built to bottom of bucket in 3 minutes and 25 seconds.  
ISI 60 No blow back.  
FFP 90 Good blow built to bottom of bucket in 5 minutes and 30 seconds.  
FSI 120 No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2576.98	118.39	Initial Hydro-static
9	47.98	118.32	Open To Flow (1)
13	53.73	118.04	Shut-In(1)
73	886.96	118.62	End Shut-In(1)
75	55.85	118.36	Open To Flow (2)
164	100.60	119.64	Shut-In(2)
285	840.48	121.26	End Shut-In(2)
291	2496.04	121.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	474 foot Gas	0.00
156.00	100% Mud w ith trace Oil.	0.77

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corporation

**McKinney Trust "A" #3-23**

9342 E. Central  
Wichita KS 67206-2573

**23-30s-19w Kiowa,KS**

Job Ticket: 60334 **DST#: 1**

ATTN: Scott Hampel

Test Start: 2014.08.11 @ 20:45:00

## Tool Information

Drill Pipe:	Length: 4776.00 ft	Diameter: 3.80 inches	Volume: 66.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 299.44 ft	Diameter: 2.25 inches	Volume: 1.47 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 68.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.44 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5088.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			5065.00	
Hydraulic tool	5.00			5070.00	
Jars	6.00			5076.00	
Safety Joint	2.00			5078.00	
Top Packer	5.00			5083.00	
Packer	5.00			5088.00	28.00 Bottom Of Top Packer
Anchor	39.00			5127.00	
Recorder	1.00	8524	Inside	5128.00	
Recorder	1.00	8159	Outside	5129.00	
Bull Plug	3.00			5132.00	44.00 Anchor Tool
<b>Total Tool Length:</b>	<b>72.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petroleum Corporation

**McKinney Trust "A" #3-23**

9342 E. Central  
Wichita KS 67206-2573

**23-30s-19w Kiowa,KS**

Job Ticket: 60334      **DST#: 1**

ATTN: Scott Hampel

Test Start: 2014.08.11 @ 20:45:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 9.17 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 7000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	474 foot Gas	0.000
156.00	100% Mud w ith trace Oil.	0.767

Total Length: 156.00 ft      Total Volume: 0.767 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

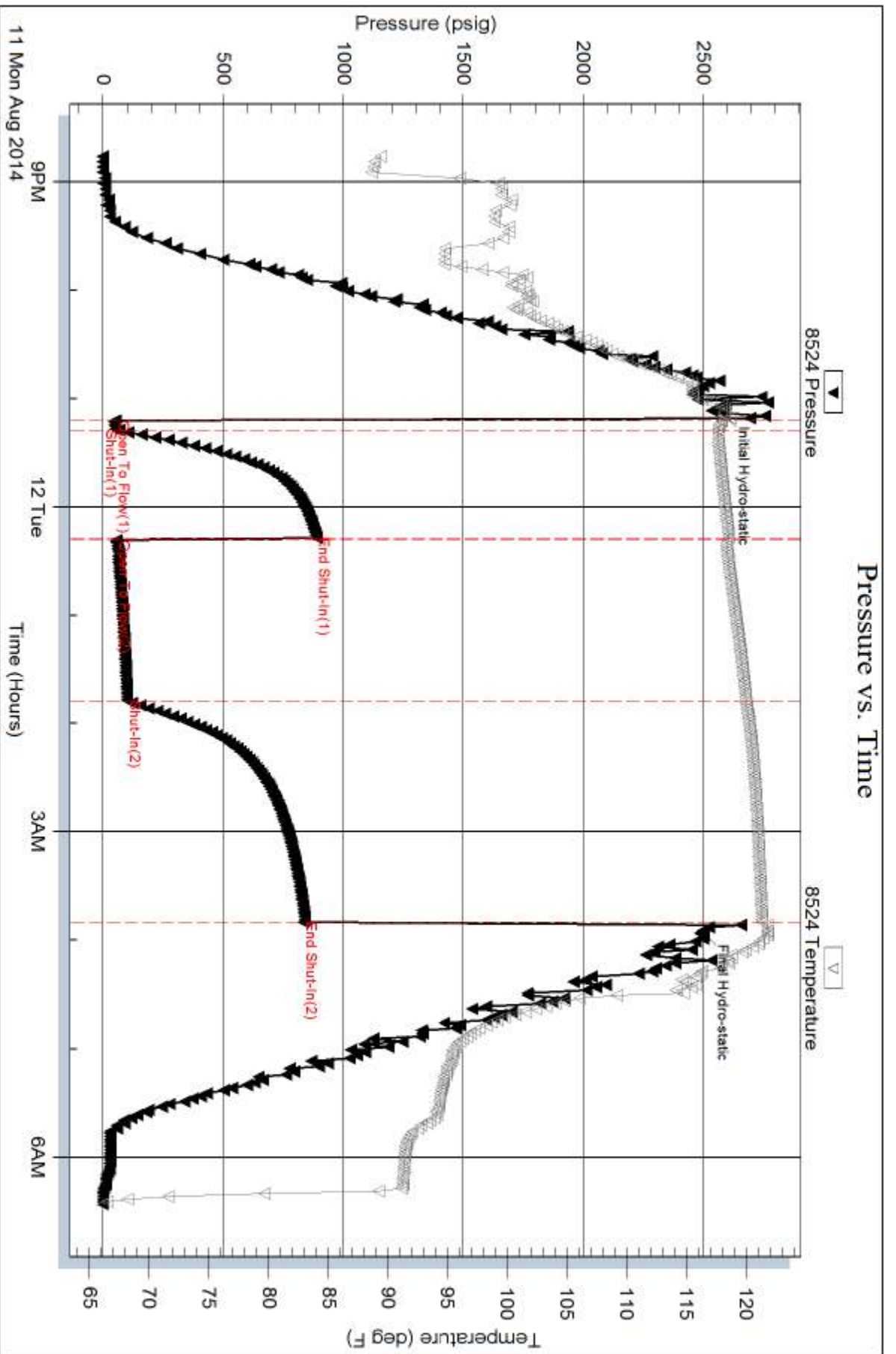
Serial #: 8524

Inside

McCoy Petroleum Corporation

23-30s-19w Kiova,KS

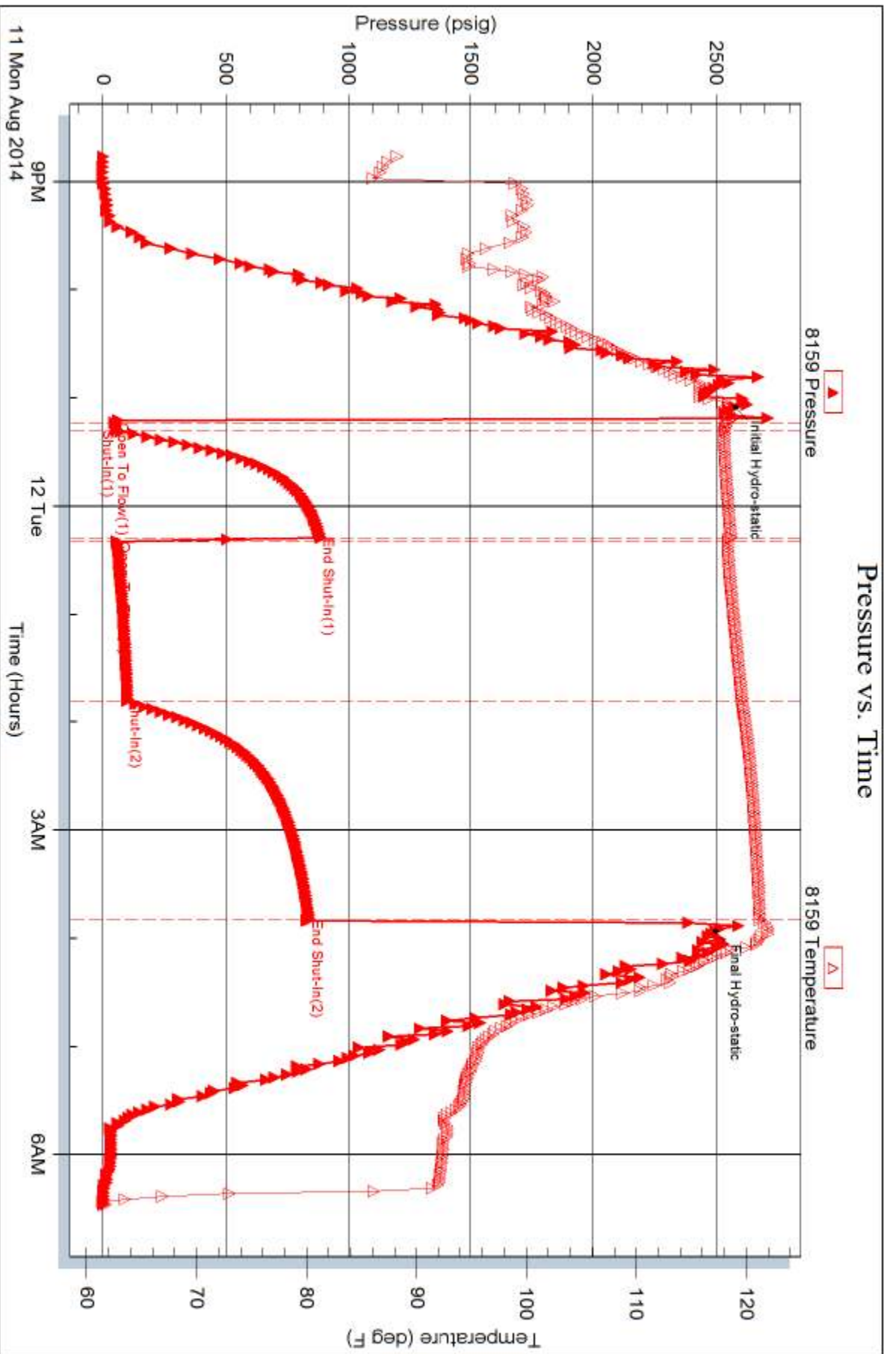
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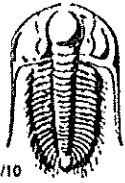


Trilobite Testing, Inc

Ref. No: 60334

Printed: 2014.08.20 @ 09:52:34





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60334

Well Name & No. McKinney Trust "A" #3-23 Test No. 1 Date 8-11-14  
 Company McCoy Petroleum Corporation Elevation 2239 KB 2253 GL  
 Address 9342 E. Central Wichita KS 67206-2523  
 Co. Rep / Geo. Zach Wiele Rig Sterling Rig #5  
 Location: Sec. 23 Twp. 30s Rge. 19w Co. Kiowa State KS

Interval Tested 5088-5132 Zone Tested Mississippian  
 Anchor Length 44 Drill Pipe Run 4776 Mud Wt. 9.3  
 Top Packer Depth 5083 Drill Collars Run 299.44 Vis 51  
 Bottom Packer Depth 5088 Wt. Pipe Run 0 WL 9.2  
 Total Depth 5132 Chlorides 7,000 ppm System LCM 3<sup>rd</sup>

Blow Description 1<sup>st</sup> Open - Bottom of Bucket Blow in 3 min. 25 sec. 1<sup>st</sup> shut in - No blow back - 2<sup>nd</sup> Open - Bottom of Bucket Blow in 5 min. and 30 sec. 2<sup>nd</sup> shut in - No Blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>156</u>	<u>mud with Trace of oil</u>	<u>T</u>		<u>100</u>	
	<u>474 feet Gas</u>	<u>100</u>			

Rec Total 156 BHT 121 Gravity \ API RW \ @ \ °F Chlorides \ ppm

(A) Initial Hydrostatic 2580  Test 1350 T-On Location 20:00  
 (B) First Initial Flow 52  Jars 250 T-Started 20:45  
 (C) First Final Flow 67  Safety Joint 75 T-Open 23:15  
 (D) Initial Shut-In 886  Circ Sub \_\_\_\_\_ T-Pulled 03:35  
 (E) Second Initial Flow 56  Hourly Standby \_\_\_\_\_ T-Out 06:30  
 (F) Second Final Flow 99  Mileage \_\_\_\_\_  
 (G) Final Shut-In 833  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2495  Straddle \_\_\_\_\_

Initial Open 5  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Extra Copies 1 extra  
 Final Flow 90  Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Final Shut-In 120  Day Standby \_\_\_\_\_ Total \_\_\_\_\_  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By [Signature] 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.



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

Well Name: McKinney Trust 'A' #3-23  
 Location: Sec. 23 - T30S - R19W, Kiowa County, KS  
 License Number: API # 15-097-21797-00-00  
 Spud Date: 08-06-2014  
 Surface Coordinates: 150'N of SE SE SE  
 510' FSL & 330' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation (ft): 2239' K.B. Elevation (ft): 2252'  
 Logged Interval (ft): 648' To: 5218' Total Depth (ft): RTD: 5225' LTD: 5218'  
 Formation: Mississippian  
 Type of Drilling Fluid: Chemical/Polymer/Gel  
 Region: Alford South  
 Drilling Completed: 08-12-2014

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

Company: McCoy Petroleum Corporation, KCC License #5003  
 Address: 9342 E Central  
 Wichita, KS 67206

**GEOLOGIST**

Name: Zach Wiele  
 Company: McCoy Petroleum Corporation  
 Address: 9342 E. Central  
 Wichita, KS 67206

**Casing & Deviation Surveys:**

Spud at 5:30 pm on 08/06/14.

**1st Surface Casing String:**

Drilled 17-1/2" hole to 267'. Ran 6 joints of 54# ; 13-3/8" surface casing.  
 Tallied 248', set at 263' KB. Cut Texas shoe. Strapped bottom 3 joints. Tacked all collars & pins.  
 Cemented with 250 sks 60/40 POZ; 3% Gel; 3% CC; 1/4# CF. Cement did circulate. Plug down at  
 2:00 am on 08/07/14. Basic Energy Svcs Cementing ticket #11117.

8/7/2014 TD 267'. WOC.

8/8/2014 TD 690'. Drilling ahead. No mud lost on 12 1/4" hole. Drilled 12 1/4" hole to  
 650'. Deviation 1/2° @ 650'. Ran 15 joints of 8 5/8", 23#, new surface casing.  
 Tallied 631.33'. Set at 646'KB. Welded straps on guide shoe and bottem 3 joints.  
 Tacked collars on all. Welded collars on top 2 joints. Basket at 290' KB. Basic  
 Energy cemented with 175 sks A-Conn, 2%Gel, 3%CC and 1/4#/sx Celoflake. Tailed with  
 150 sxs 60/40 Pozmix, 3%CC, 1/4#/sx Celoflake. Cement did circulate. Plug down at  
 7:30 P.M. on 8/7/14.

**DRILL STEM TEST**

DST #1: 5088-5132'  
 Times: 5 - 60 - 90 - 120"  
 IF: BOB/ 3" 25 sec  
 ISIP: No Blow Back  
 FF: BOB/ 5 1/2"  
 FSIP: No Blow Back  
 Rec: 156' Mud w/ Trace of Oil (100%Mud), 474' Gas (100%Gas)  
 IH: 2580  
 FH: 2495  
 IF: 52-67  
 FF: 56-99  
 SIP: 886-833#

**ROCK TYPES**

**LITHOLOGY**

- Char-grn sh
- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Dol
- Gyp
- Igne
- Lmst
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Congl

- Blk carb sh
- Green sh
- Brn sh
- Red sh
- Gray shale
- Boundst
- Chalky
- Cryxln

- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

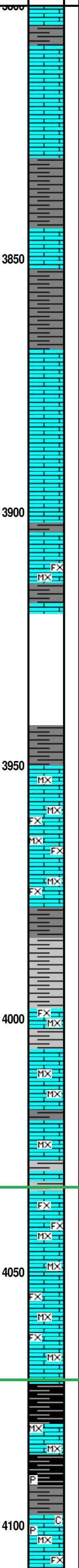
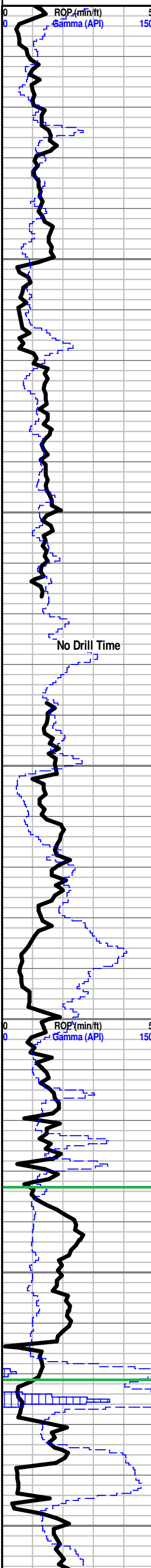
- OIL SHOW Even
- Spotted
- Ques
- Gas
- Dead

McKinney Trust 'A' #3-23  
 ROP (min/ft) ———  
 Gamma (API) - - - -

TG, C1-C5  
 TG (Units) ———  
 C1 (units) ———  
 C2 (units) - - - -  
 C3 (units) - - - -  
 C4 (units) - - - -

Depth  
 Lithology  
 Oil Shows

Geological Descriptions



**McCoy Petroleum Corporation**  
**McKinney Trust 'A' #3-23**

SPOT: 510' FSL & 330' FEL  
 150'N of SE - SE - SE  
 Sec. 23 - T. 30S - R. 19W  
 KIOWA COUNTY, KANSAS  
 A.P.I #: 15-097-21797-00-00  
 ELEVATION: 2252' K.B. 2239' G.L.

**CONTRACTOR: STERLING DRILLING - RIG #5**

**GEOLOGIST: ZACH WIELE**

GEOLOGIST ON LOCATION @ 5:40 AM on 8/10/2014 @ 3895'

Deviation Survey's Taken @ 267' = 1/4 Degree, 650' = 1/2 Degree, 5132' = 1/2 Degree

Note: All Samples Have Been Lagged To Depth By Calculated Time.

Begin 30' Kelly Down Sample Examination @ 3930'

Ls Crm-Gry-Wht, Fn-microIn dns micrite, Chlky, Sh Char-Gry-Red-Aqua, soft, no odr, no flor, no stn, NS

Ls Crm-Gry, Micro-FxIn, dns micrite, Sh Char-Gry-Brn-Red, soft, w/pyr-inclus, no odr, no flor, no stn, NS

Ls Crm-Wht-Gry, Micro-FxIn, Dns Micrite w/Pyr-Inclus, Sli Foss, Sh Gry-Red-Aqua, soft, fissil, Mass Pyr(1 Pc), no odr, no flor, no stn, NS

Ls Crm-Gry-Wht, FxIn Dns micrite grad poor inxIn PP Por, Sli Foss, Sh Gry-BrnRed, soft fiss, w/Pyr-Inclus, no odr, no flor, no stn, NS

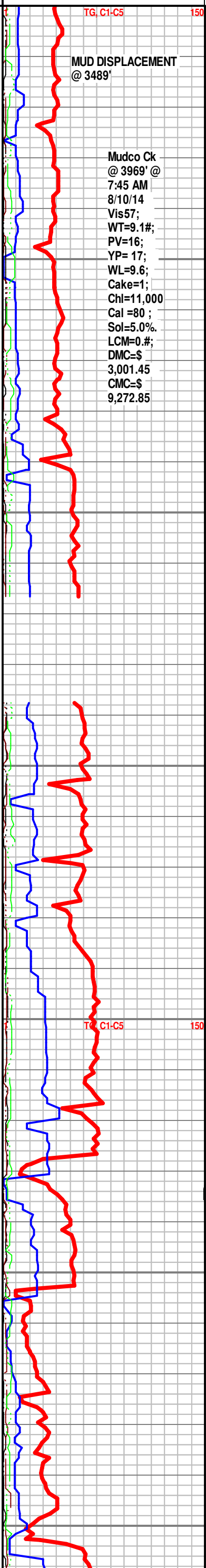
**LECOMPTON 'B' 4033' (-1781)**

Ls Crm-Wht-Gry, Fn-MicroIn Dns micrite, Foss(crin), Sh Gry-Red-Aqua, fiss-soft, no odr, no flor, no stn, NS

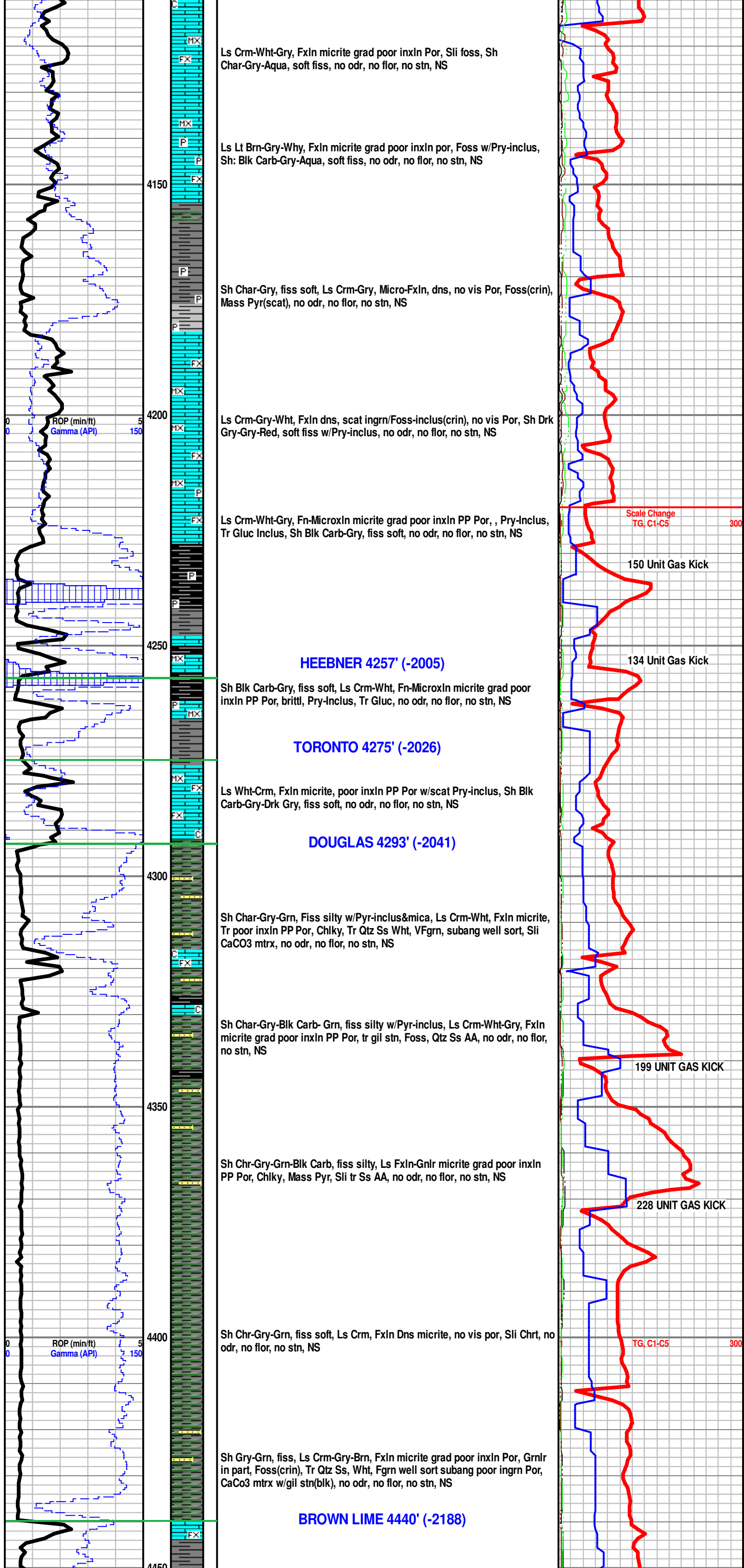
Ls Wht-Crm-Gry, FxIn micrite, Foss-inclus, Sh Blk Carb-Gry-Red-Aqua, soft fiss, Scat Chrt, Crm, no odr, no flor, no stn, NS

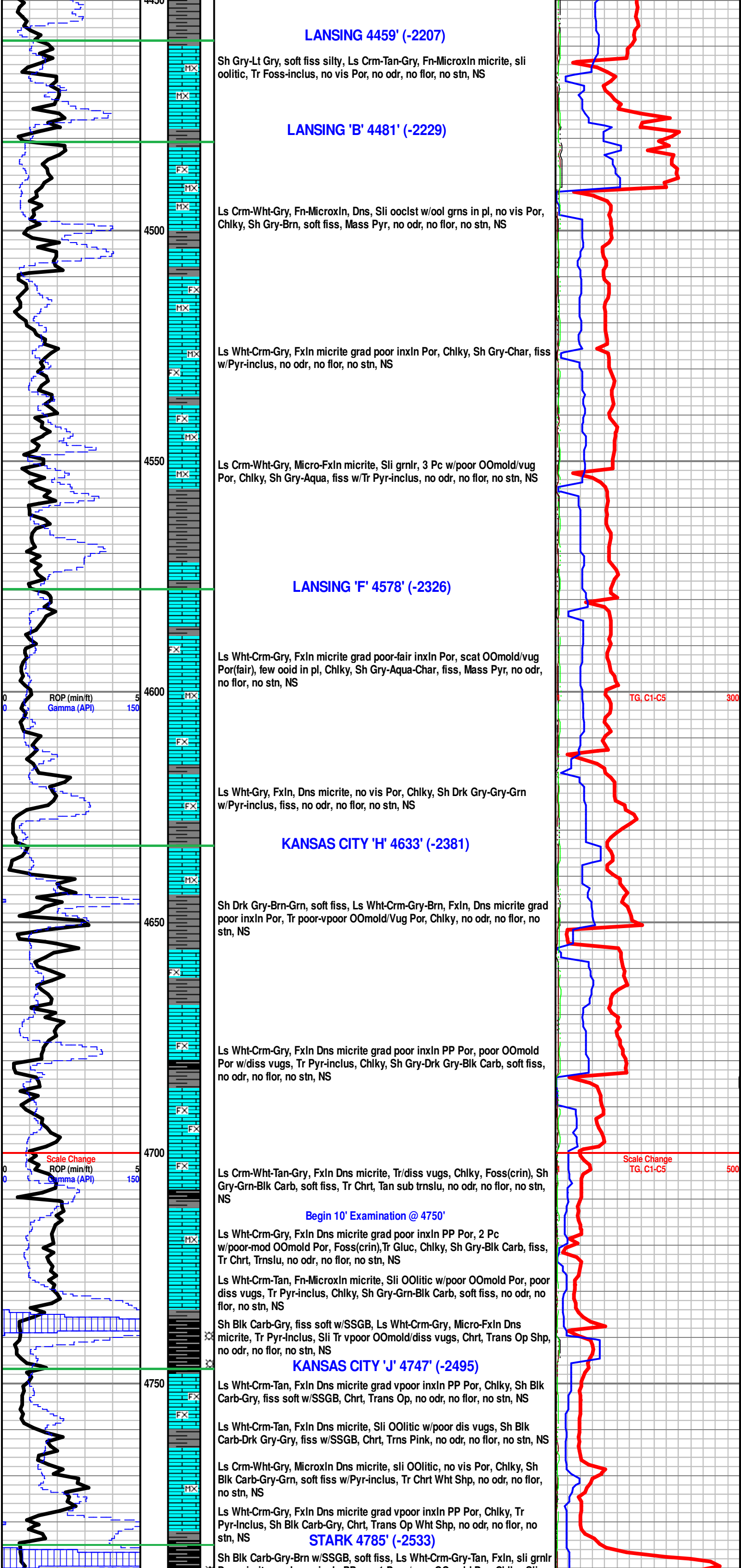
**QUEEN HILL 4071' (-1819)**

Sh Blk Carb-Char-Gry, soft fiss, Ls Crm-Wht-Gry, FxIn micrite grad poor inxIn Por, Sli Chlky, few w/Pyr-inclus, no odr, no flor, no stn, NS









**LANSING 4459' (-2207)**

Sh Gry-Lt Gry, soft fiss silty, Ls Crm-Tan-Gry, Fn-MicroIn micrite, sli oolitic, Tr Foss-inclus, no vis Por, no odr, no flor, no stn, NS

**LANSING 'B' 4481' (-2229)**

Ls Crm-Wht-Gry, Fn-MicroIn, Dns, Sli ooclst w/ool grns in pl, no vis Por, Chlky, Sh Gry-Brn, soft fiss, Mass Pyr, no odr, no flor, no stn, NS

Ls Wht-Crm-Gry, FxIn micrite grad poor inxIn Por, Chlky, Sh Gry-Char, fiss w/Pyr-inclus, no odr, no flor, no stn, NS

Ls Crm-Wht-Gry, Micro-FxIn micrite, Sli grnlr, 3 Pc w/poor OOmold/vug Por, Chlky, Sh Gry-Aqua, fiss w/Tr Pyr-inclus, no odr, no flor, no stn, NS

**LANSING 'F' 4578' (-2326)**

Ls Wht-Crm-Gry, FxIn micrite grad poor-fair inxIn Por, scat OOmold/vug Por(fair), few ooid in pl, Chlky, Sh Gry-Aqua-Char, fiss, Mass Pyr, no odr, no flor, no stn, NS

Ls Wht-Gry, FxIn, Dns micrite, no vis Por, Chlky, Sh Drk Gry-Gry-Grn w/Pyr-inclus, fiss, no odr, no flor, no stn, NS

**KANSAS CITY 'H' 4633' (-2381)**

Sh Drk Gry-Brn-Grn, soft fiss, Ls Wht-Crm-Gry-Brn, FxIn, Dns micrite grad poor inxIn Por, Tr poor-vpoor OOmold/Vug Por, Chlky, no odr, no flor, no stn, NS

Ls Wht-Crm-Gry, FxIn Dns micrite grad poor inxIn PP Por, poor OOmold Por w/diss vugs, Tr Pyr-inclus, Chlky, Sh Gry-Drk Gry-Blk Carb, soft fiss, no odr, no flor, no stn, NS

Ls Crm-Wht-Tan-Gry, FxIn Dns micrite, Tr/diss vugs, Chlky, Foss(crin), Sh Gry-Grn-Blk Carb, soft fiss, Tr Chrt, Tan sub trnslu, no odr, no flor, no stn, NS

**Begin 10' Examination @ 4750'**

Ls Wht-Crm-Gry, FxIn Dns micrite grad poor inxIn PP Por, 2 Pc w/poor-mod OOmold Por, Foss(crin), Tr Gluc, Chlky, Sh Gry-Blk Carb, fiss, Tr Chrt, Trnslu, no odr, no flor, no stn, NS

Ls Wht-Crm-Tan, Fn-MicroIn micrite, Sli Oolitic w/poor OOmold Por, poor diss vugs, Tr Pyr-inclus, Chlky, Sh Gry-Grn-Blk Carb, soft fiss, no odr, no flor, no stn, NS

Sh Blk Carb-Gry, fiss soft w/SSGB, Ls Wht-Crm-Gry, Micro-FxIn Dns micrite, Tr Pyr-Inclus, Sli Tr vpoor OOmold/diss vugs, Chrt, Trans Op Shp, no odr, no flor, no stn, NS

**KANSAS CITY 'J' 4747' (-2495)**

Ls Wht-Crm-Tan, FxIn Dns micrite grad vpoor inxIn PP Por, Chlky, Sh Blk Carb-Gry, fiss soft w/SSGB, Chrt, Trans Op, no odr, no flor, no stn, NS

Ls Wht-Crm-Tan, FxIn Dns micrite, Sli Oolitic w/poor dis vugs, Sh Blk Carb-Drk Gry-Gry, fiss w/SSGB, Chrt, Trns Pink, no odr, no flor, no stn, NS

Ls Crm-Wht-Gry, MicroIn Dns micrite, sli Oolitic, no vis Por, Chlky, Sh Blk Carb-Gry-Grn, soft fiss w/Pyr-inclus, Tr Chrt Wht Shp, no odr, no flor, no stn, NS

Ls Wht-Crm-Gry, FxIn Dns micrite grad vpoor inxIn PP Por, Chlky, Tr Pyr-Inclus, Sh Blk Carb-Gry, Chrt, Trans Op Wht Shp, no odr, no flor, no stn, NS

**STARK 4785' (-2533)**

Sh Blk Carb-Gry-Brn w/SSGB, soft fiss, Ls Wht-Crm-Gry-Tan, FxIn, sli grnlr

ROP (min/ft)  
Gamma (API)

Scale Change  
ROP (min/ft)  
Gamma (API)

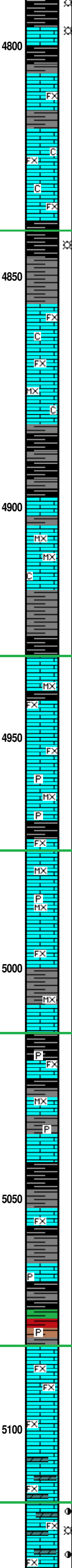
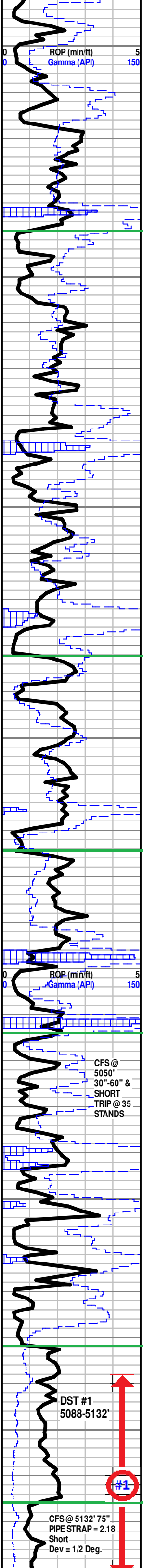
TG, C1-C5

Scale Change  
TG, C1-C5

300

500





Dns micrite grad poor inxIn PP por, 1 Pc w/poor OOmold Por, Chlky, Sli Foss(crin), no odr, no flor, no stn, NS

Sh Blk Carb-Gry, fiss w/SSGB, Ls Crm-Gry-Wht, FxIn Dns micrite, no vis Por, Sli Foss, no odr, no flor, no stn, NS

Sh Blk Carb-Gry-Brn, fiss w/SSGB, Ls Crm-Wht-Gry, FxIn Dns grad poor inxIn Por, Scat poor OOmold Por, Foss(crin), no odr, no flor, no stn, NS

Ls Lt Tan-Crm-Wht, FxIn micrite grad poor PP inxIn Por, Chlky, Sh Gry-Char, fiss soft, no odr, no flor, no stn, NS

Ls Tan-Crm-Lt Gry, FxIn micrite grad vpoor-poor inxIn PP Por, Chlky, Foss(crin), Sh Gry-Char-Blk Carb w/SSGB fiss soft, no odr, no flor, no stn, NS

**HUSHPUCKNEY 4840' (-2588)**

Sh Blk Carb w/SSGB-Gry-Aqua, fiss silty, Ls Crm-Wht-Lt Gry-Tan, FxIn micrite grad poor inxIn PP/vug Por, Chlky, Chrt Trans Wht Op Shp, no odr, no flor, no stn, NS

Sh Char-Gry-Aqua-Blk Carb w/SSGB, fiss, Ls Crm-Gry-Tan, FxIn micrite grad poor inxIn PP Por, Tr poor OOmold/vug Por, Chlky, no odr, no flor, no stn, NS

Ls Gry-Crm-Wht-Tan, FxIn micrite, Tr poor inxIn PP Por, Chlky, Sh Gry-Aqua, fiss, no odr, no flor, no stn, NS

Ls Crm-Wht-Gry-Tan, FxIn micrite grad poor inxIn PP Por, Chlky, Tr Pyr-Inclus, Sh Gry-Char-Aqua, fiss soft, no odr, no flor, no stn, NS

Ls Crm-Gry-Tan, FxIn Dns Micrite, Scat poor inxIn PP Por, Chlky, Sh Gry-Char, fiss, Chrt Trans Wht Shp, no odr, no flor, no stn, NS

Sh Blk Carb-Gry-Char, fiss, Ls Crm-Lt Gry-Tan, Fn-microxIn, dns, chlky, no odr, no flor, no stn, NS

Sh Char-Gry-Grn-Blk Carb, soft fiss w/Pyr-Inclus, Ls Crm-Wht-Gry, Dns micrite, Chlky, Pyr(mass), no odr, no flor, no stn, NS

Ls Gry,Brn-Crm-Wht, MicroxIn Dns micrite, Foss-inclus, Chlky, Sh Blk Carb-Gry-Char-Aqua, fiss, no odr, no flor, no stn, NS

Ls Gry-Wht-Crm, Fn-MicroxIn micrite grad poor inxIn PP Por, 3 pc w/vpoor OOmold Por w/oids in pl, Sh Gry-Char-Blk Carb, fiss w/Pyr-Inclus, no odr, no flor, no stn, NS

**MARMATON 4932' (-2680)**

Ls Wht-Crm-Gry, FxIn micrite grad vpoor inxIn PP Por, Sh Blk Carb-Gry, fiss, Tr Gluc-Inclus, no odr, no flor, no stn, NS

Ls Wht-Gry-Tan, FxIn micrite grad poor inxIn Por, Few w/poor-fair inxIn PP/vug por, grnlr in part, Sh Blk Carb-Gry-Aqua, fiss soft w/Pyr-Inclus, no odr, no flor, no stn, NS

Ls Wht-Crm-Lt Gry, FxIn micrite grad poor inxIn PP Por, Sh Blk Carb-Gry-Grn, Fiss, no odr, no flor, no stn, NS

Sh Blk Carb-Gry-Aqua, fiss, Ls, Crm-Wht-Tan, Fn-microxIn, poor inxIn PP Por, Foss(crin), no odr, no flor, no stn, NS

**PAWNEE 4974' (-2722)**

Ls Crm-Wht, FxIn micrite, Dns grad poor inxIn Por, Sh Gry-Char-Aqua, fiss soft, no odr, no flor, no stn, NS

Ls Crm-Wht, MicroxIn micrite, no vis Por, foss(crin) Sh Blk Carb-Gry-Aqua, soft fiss, Pyr-inclus, no odr, no flor, no stn, NS

Ls Crm-Wht, Micro-FxIn micrite, no vis Por, Sh Blk Carb-Gry-Aqua-Grn, fiss soft, no odr, no flor, no stn, NS

Sh Blk Carb-Gry-Grn, soft fiss, Ls Wht-Crm-Tan, FxIn micrite, poor inxIn PP Por, no odr, no flor, no stn, NS

Sh Blk Carb-Char-Gry, fiss, Ls Wht-Crm-Tan, Micro-FxIn micrite, Dns, Chrt Wht-Op Shp, no odr, no flor, no stn, NS

**CHEROKEE 5014' (-2762)**

Sh Blk Carb-Gry, fiss, Ls Micro-FxIn grad poor inxIn PP Por, Mass Pyr, Chrt Wht Op, no odr, no flor, no stn, NS

30" CFS @ 5050' Sh Blk Carb-Gry-Char, fiss, Ls Wht-Crm-Lt Gry, Micro-FxIn Dns micrite grad poor PP inxIn Por, no odr, no flor, no stn, NS

60" CFS @ 5050', Sh Blk Carb-Gry-Chr-Aqua, fiss silty w/Pyr-Inclus, Ls Wht-Lt Tan-Lt Gry, Micro-FxIn micrite grad poor inxIn PP Por, Mass Pyr, Foss(brach), no odr, no flor, no stn, NS

Sh Blk Carb-Gry-Grn-Aqua, fiss soft, Ls Crm-Tan, Micro-FxIn micrite grad poor inxIn PP Por, Chrt Wht-Op, no odr, no flor, no stn, NS

Sh Blk Carb-Gry-Grn-Red, fiss silty, Ls Crm-Wht-Tan-Gry, Micro-FxIn micrite grad poor inxIn Por w/Tr Gluc/Pry-Inclus, Chrt Gry Op Shp, no odr, no flor, no stn, NS

Sh Blk Carb-Gry-Aqua-Red, fiss soft, Ls Wht-Crm-Tan, FxIn micrite, poor inxIn Por, Chrt AA, no odr, no flor, no stn, NS

**MISSISSIPPIAN 5072' (-2830)**

Ls Wht-Crm, FxIn, poor-med inxIn Por w/Gluc-Inclus, Scat vugs, Blk Gil Stn, Sh Blk Carb-Gry-Oliv-Red, soft fiss, Chrt Peach Op Trip Shp, no odr, no flor, no stn, NS

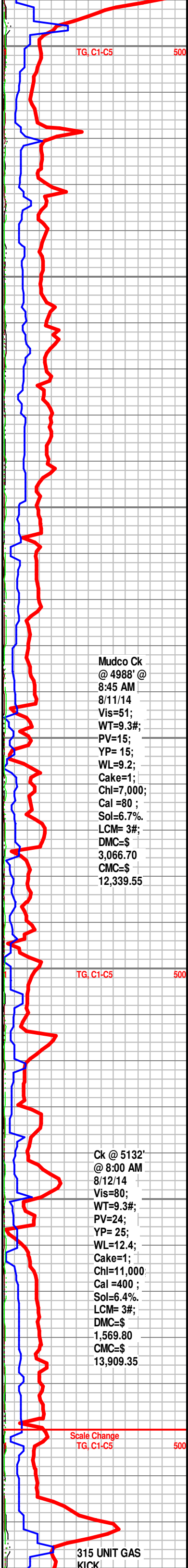
Ls Wht-Crm-Lt Tan-Tan, FxIn Dns micrite grad poor-fair inxIn PP Por, Scat Gil Stn(Blk),sli Dol, Sh Vari Color Blk Carb-Gry-Grn-Aqua-Oliv-Red-Mrn fiss soft, Chrt Wht-Op-Orng-Trip Shp, no odr, no flor, no stn, NS

30" CFS @ 5132' Dol/Ls Wht-Crm, FxIn, poor-med inxIn Pin-Pt Por, Lt Brn Stn(Wht Grn Flor scat in tray), Drk Blk Gil Stn w/Gluc-Inclus, med odr, SSG, No FO, Brittle, Sh Vari Color, Chrt Orng-Trip- Op Shp

**SPERGEN POROSITY 5116' (-2864)**

60" CFS @ 5132' Dol/Ls Wht-Crm, poor-med-good Pin-Pt inxIn Sucr Por, Spt-Sat Lt Brn Stn w/good Wht Grn Flor(scst tru tray), Drk Gil Stn w/Gluc-Inclus, med odr, GSG, Wry Lt Brn Oil Spts(afttr 10% HCl), Sh Blk Carb-Gry-Red, Fiss

75" CFS @ 5132' Dol/Ls Wht-Crm, FxIn, Med-Good Pin-Pt inxIn Sucr Por, strk-sat Lt Brn Stn w/Drk Blk Gil Stn(w/Gluc-Inclus), Med Odr, Wht-Grn Flor(scst tru try 3-5%), GSG, Wry Lt Brn Oil Spts(afttr 10% HCl), brittle, Sh Blk Carb-Gry-Red

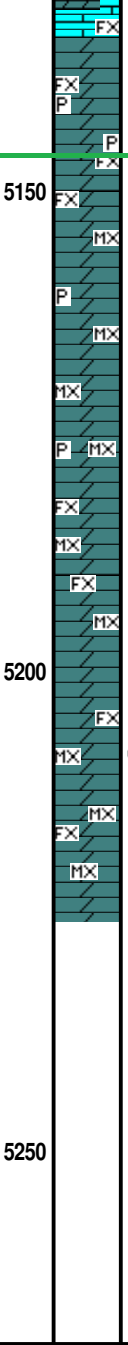
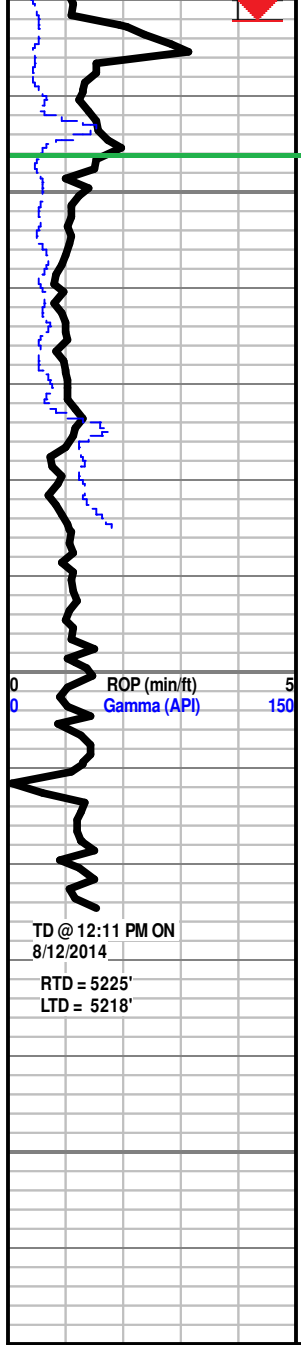


Mudco Ck  
@ 4988' @  
8:45 AM  
8/11/14  
Vis=51;  
WT=9.3#;  
PV=15;  
YP= 15;  
WL=9.2;  
Cake=1;  
Chl=7,000;  
Cal =80 ;  
Sol=6.7%.  
LCM= 3#;  
DMC=\$  
3,066.70  
CMC=\$  
12,339.55

Ck @ 5132'  
@ 8:00 AM  
8/12/14  
Vis=80;  
WT=9.3#;  
PV=24;  
YP= 25;  
WL=12.4;  
Cake=1;  
Chl=11,000  
Cal =400 ;  
Sol=6.4%.  
LCM= 3#;  
DMC=\$  
1,569.80  
CMC=\$  
13,909.35

Scale Change  
TG, C1-C5

315 UNIT GAS  
KICK



Dol/Ls Crm-Tan-Gry, FxIn micrite grad poor-fair Pin-Pt InxIn Por, Few Scat pc w/fair-good InxIn PP Por w/dis vugs(flor,brn stn, sluff), Sh Blk Carb-Gry-Brn-Aqua, fiss, Foss(crin), Pyr-Inclus, Chrt Drk Gry Trans Op Shp, fnt odr, no flor,no stn, NS

**WARSAW POR 5146' (-2894)**

Dol/Ls Lt Gry-Crm, FxIn, Poor-Fair InxIn Pin-Pt Por, w/Gluc-Inclus, Sh Blk Carb-Gry-Brn-Aqua, fiss, Tr Drk Gil Stn, no odr, sli tr flor(sluff), no stn, NS

Dol Gry-Tan-Crm, FxIn-MicroxIn, poor-fair Pin-Pt InxIn Por w/ Tr vugs, Gluc-Inclus, Sh Blk Carb-Gry-Grn, fiss,w/Pyr-Inclus, no odr, no flor(1pc sluff), no stn, NS

Dol Gry-Lt Gry-Tan, Fn-MicroxIn micrite, poor-fair Pin-Pt InxIn Por, fri, Gluc-Inclus, Sh Blk Carb-Gry, no odr, no flor, no stn, NS

Dol Gry-Crm, Fn-MicroxIn- micrite grad poor-fair-Good Pin-Pt InxIn Por, scat vug, sli foss inclus, Sh Gry-Drk Gry, fiss, no odr, no flor, no stn, NS

30" CFS @ 5225 Dol Gry-Crm-Wht,Fn-MicroxIn micrit, poor-fair lxl Por grad good InxIn suc Por, w/tr vug Por, w/foss-chrt inclus,Gluc-inclus, (trc spts FO in Try, fair odr, scat wht lt grn flor, lt brn stn, 2-3% of try) Sh Gry-Grn, fiss,

60" CFS @ 5225' Dol Gry-Crm-Wht, Fn-MicroxIn micrit, poor-fair lxl Por grad good InxIn suc Por, w/tr vug Por, w/foss-chrt inclus,Gluc-inclus, (2 spts FO in Try, fair odr, scat wht lt grn flor, lt brn stn, <4% of try) Sh Gry-Grn, fiss

90' CFS @ 5225 Dolo, Gry-Crm-Wht, Fn-MicroxIn micrite, poor-fair lxl Por, grad good InxIn suc Por, w/tr vug, foss/chrt inclus,Gluc-Inclus (scat wht-grn flor(<5% in smp),fair-good odr, lt brn stn, GSFO aft 10%HCL), Sh Gry-Grn, soft fiss, Mass Pyr

**RTD = 5225'**  
**LTD = 2218'**

Electric Logs Ran By Weatherford Logging: Dual Induction, Compensated Density-Neutron & Microresistivity Logs.

Geologist Left Location @ 12:45 AM on 8/13/2014

~ ~ DST # 1 ~ ~  
Interval: 5088'-5132'.  
Times: 5"-60"-90"-150";  
Blow: IF=BOB/ 3min  
25sec, ISIP=No Blow  
Back, FF= BOB/ 5 1/2",  
FSIP= No Blow Back  
Rec: 156' Mud w/Tr  
Oil(100%M), 474'  
Gas(100%G)  
Pressures:  
IH= 2580#;  
FH 2495#;  
IF= 52-67#;  
FF = 56-99#;  
ISIP= 886#;  
FSIP= 833#;  
TEMP= 121 degrees. F.

TG, C1-C5 500

ROP (min/ft) 5  
Gamma (API) 150

TD @ 12:11 PM ON  
8/12/2014

RTD = 5225'  
LTD = 5218'

Customer <i>McCoy PET Cup</i>	Lease No.	Date <i>8-7-14</i>
Lease <i>McKinney Trust A</i>	Well # <i>3-23</i>	
Field Order # <i>1117A</i>	Station <i>Pratt</i>	Casing <i>13 3/8</i>
		Depth <i>247'</i>
Type Job <i>13 3/8 conductor</i>	Formation	Legal Description <i>23 30 19</i>
	<i>conductor pipe CNW</i>	
		County <i>kiowa</i> State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>13 3/8</i>				Pre Pad	Max		5 Min.
Depth <i>247'</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>361.9</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press <i>300</i>	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative <i>Allen</i>	Station Manager <i>Kevin Goodley</i>	Treater <i>Scott Graves</i>
Service Units <i>38970</i>	<i>27463</i>	<i>19851</i>
Driver Names <i>Scott Pat Dale</i>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>1:00</i>					<i>On location Safety Meeting</i>
					<i>Dig up</i>
<i>1:35</i>					<i>Circulate well</i>
<i>1:43</i>	<i>100</i>	<i>10</i>	<i>3</i>	<i>5</i>	<i>Pump H2O spacer</i>
<i>1:45</i>	<i>200</i>		<i>4</i>	<i>5.2</i>	<i>start 250SKS 60/40 POZ 14.8PPG</i>
<i>1:53</i>	<i>250</i>		<i>41</i>	<i>5.2</i>	<i>Cement circulated to surface</i>
<i>1:58</i>			<i>12.5</i>	<i>5</i>	<i>Finish pumping 60/40 POZ</i>
<i>1:58</i>	<i>300</i>			<i>5.6</i>	<i>start Displacement</i>
<i>2:03</i>	<i>250</i>		<i>35</i>		<i>Displacement complete</i>
					<i>Shut Down Job complete</i>
					<i>Circulated 12.5 bbls of 60/40 to pit</i>

Customer <i>McCoy PCT Corp</i>		Lease No.	Date	
Lease <i>McKinney Trust A</i>		Well # <i>3-23</i>	<i>8-7-14</i>	
Field Order # <i>1116A</i>	Station	Casing <i>8 5/8</i>	Depth	County <i>KIOWA</i> State <i>KS</i>
Type Job <i>8 5/8 surface pipe CNW</i>		Formation	Legal Description <i>23 30 19</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>				Pre Pad				5 Min.
Depth <i>646</i>	Depth	From	To	Pad	Min			10 Min.
Volume <i>41.59</i>	Volume	From	To	Frac	Avg			15 Min.
Max Press <i>1000</i>	Max Press	From	To		HHP Used			Annulus Pressure
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To	Flush	Gas Volume			Total Load
Plug Depth	Packer Depth	From	To					

Customer Representative <i>Allen</i>	Station Manager <i>Kenna Goodley</i>	Treater <i>Scott Graves</i>
--------------------------------------	--------------------------------------	-----------------------------

Service Units	<i>38970</i>	<i>77463</i>	<i>19960</i>						
Driver Names	<i>Scott</i>	<i>Josh</i>	<i>Robert</i>	<i>Pat</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>13:00</i>					<i>On Location Safety Meeting</i>
					<i>Pig up</i>
<i>5:30</i>					<i>Run float equipment basket at 294'</i>
<i>6:40</i>					<i>Circulate well</i>
<i>6:50</i>	<i>100</i>		<i>3</i>	<i>5</i>	<i>Pump H2O spacer</i>
<i>6:53</i>	<i>150</i>		<i>4</i>	<i>5.4</i>	<i>Start 175 SKS A con 12 ppq</i>
<i>6:58</i>	<i>200</i>		<i>56</i>	<i>5.6</i>	<i>Cement circulated to surface</i>
<i>7:03</i>	<i>200</i>		<i>21</i>	<i>5.5</i>	<i>Finish Acon Blend at 12 ppq</i>
<i>7:03</i>	<i>200</i>			<i>5.5</i>	<i>Start 60/40 POZ at 1418 ppq</i>
<i>7:15</i>			<i>32.5</i>		<i>Cement pumped</i>
<i>7:15</i>					<i>Drop plug</i>
<i>7:15</i>				<i>5.8</i>	<i>Start Disp</i>
<i>7:25</i>	<i>500</i>		<i>38</i>		<i>Plug landed</i>
					<i>Job Complete</i>



Customer	McCloy Pet. Corp	Lease No.		Date	8-13-14
Lease	McKinney Tract A	Well #	3-23		
Field Order #	11040	Station	Pratt	Casing	4 1/2
				Depth	
Type Job	CNW Long String	Formation		County	Kiowa
				State	KS
				Legal Description	23-30-19

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	4 1/2	Tubing Size		Acid		RATE	PRESS	ISIP
Depth	5191	From	To	Pre Pad	Max			5 Min.
Volume	82	From	To	Pad	Min			10 Min.
Max Press		From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Calvin	Station Manager	Kevin	Treater	JOE
Service Units	77686	19905	19903	19860	28443
Driver Names	ED	COLE			JOE

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0800					ON LOC / safety meeting
					Run 124 JTS of 4 1/2 csg @ 10.5# Pipe
					cen. on 1-3-5-7
08:30					Start Running csg
10:45					csg on bottom / circ. with Big
12:30					HOOKUP TO PUMP TRK TO START JOB
12:30	500		5		H2O Spacer
			10	5.5	STOP LOSS
			2	5.5	H2O Spacer
	100		44	5.5	Mix 175 sls AA2 cement @ 15#
			⊖	⊖	shut down clear pump @ lines
12:40	100		⊖	6	Release Plug Start H2O DISP.
12:50	400		60	5.8	List PSI
	600		75	3.5	slow Rate
13:00	1500		82	⊖	Plug Down
					Plug BH 5 min
					JOB COMPLETE
					Thank you JOE