



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1237248  
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: \_\_\_\_\_

1237248

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> _____
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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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**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: McRae-Tx-Trust 1 Dst 1

TIME ON: 12:31  
TIME OFF: 21:05

Company Raymond Oil Company Inc. Lease & Well No. McRae-Tx-Trust  
Contractor H2 Drilling Charge to Raymond Oil Company Inc  
Elevation 3253 Est Formation \_\_\_\_\_ Drum Effective Pay \_\_\_\_\_ Ft. Ticket No. RR107  
Date Oct/22/2014 Sec. 22 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 36 W County Wichita State KANSAS  
Test Approved By Cliff Ottaway Diamond Representative RICKY RAY

Formation Test No. 1 Interval Tested from 4176 ft. to 4201 ft. Total Depth 4201 ft.  
Packer Depth 4171 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4176 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4166 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4180 ft. Recorder Number 5954 Cap. 5100 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 54 Drill Collar Length 264 ft. I.D. 2 1/4 in.  
Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 8000 P.P.M. Drill Pipe Length 3889 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number NA Test Tool Length 23 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 25 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" Blow (BOB in 13 mins) NOBB  
2nd Open: 1/4" Blow (BOB in 16 mins) NOBB

Recovered 467 ft. of HMW 77% W 23% M  
Recovered 264 ft. of MW 95% W 5% M  
Recovered 731 ft. of Total Fluid

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ RW: .5 @ 72 Deg  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ PH: 7 Price Job \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Chlorides: 16,000 PPM Other Charges \_\_\_\_\_  
Remarks: Tool Sample: 97% W 3 % M Insurance \_\_\_\_\_  
Total \_\_\_\_\_

Time Set Packer(s) 3:10 PM A.M. P.M. Time Started Off Bottom 6:55 PM A.M. P.M. Maximum Temperature 110

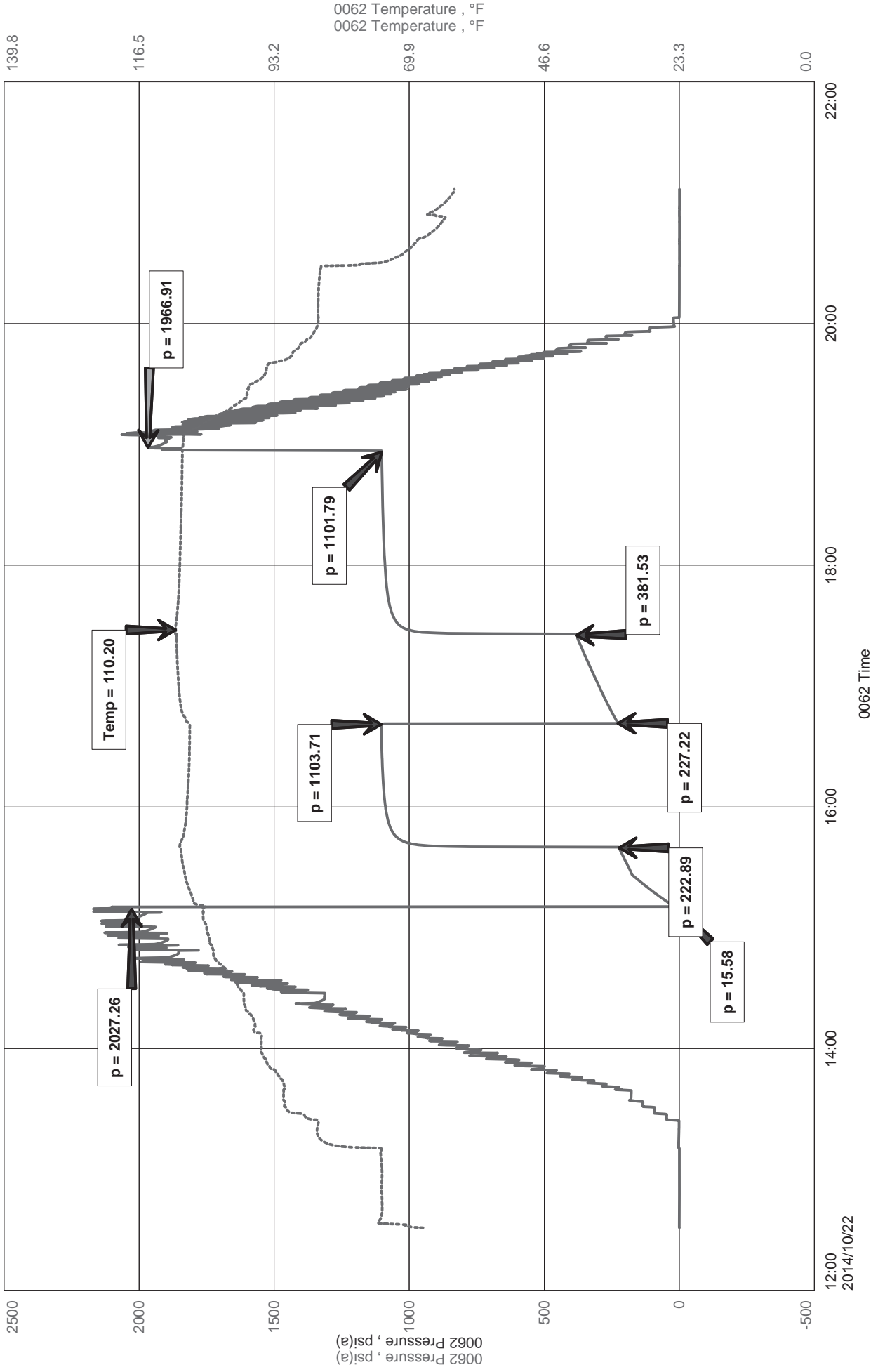
Initial Hydrostatic Pressure..... (A) 2027 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 223 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 1104 P.S.I.  
Final Flow Period..... Minutes 45 (E) 227 P.S.I. to (F) 382 P.S.I.  
Final Closed In Period..... Minutes 90 (G) 1102 P.S.I.  
Final Hydrostatic Pressure..... (H) 1967 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

Raymond Oil Company Inc.  
Dst 1 Drum (4176-4201)  
Start Test Date: 2014/10/22  
Final Test Date: 2014/10/22

McRae-Tx-Trust 1  
Formation: Dst 1 Drum (4176-4201)  
Pool: Wildcat  
Job Number: RR107

# McRae-Tx-Trust 1





Diamond Testing LLC  
 P.O. Box 157  
 HoisingtonKS 67544

Ricky Ray - Tester  
 (620) 617-7261

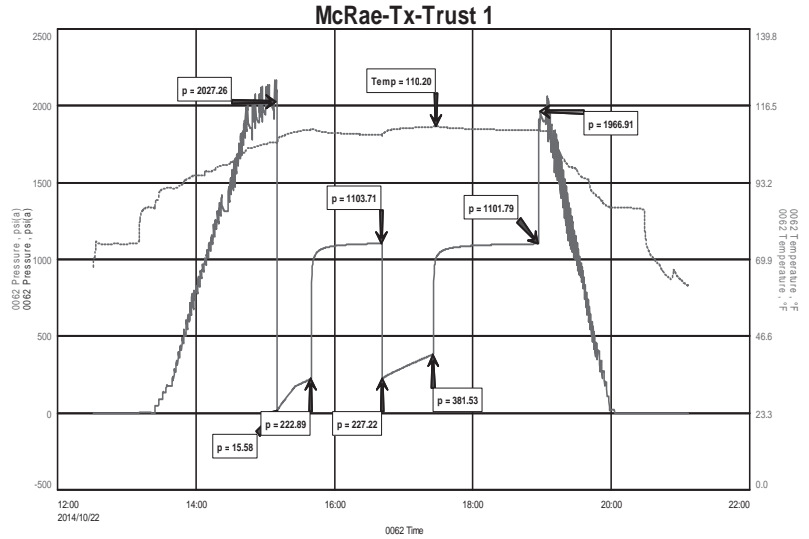
# Wellsite Report

## General Information

Company Name	Raymond Oil Company Inc.
Contact	Ted Mchenry
Well Operator	Raymond Oil Company Inc
Well Name	McRae-Tx-Trust 1
Surface Location	Sec: 22-19s-36w (Wichita County)
Field	WC
Well Type	Vertical
Pool	Wildcat
Test Purpose (AEUB)	Initial Test
Qualified By	Cliff Ottaway
Gauge Name	0062

## Test Information

Job Number	RR107
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 1 Drum (4176-4201)
Start Test Date	2014/10/22 YYYY/MM/DD
Start Test Time	12:31:00 HH:mm:ss
Final Test Date	2014/10/22 YYYY/MM/DD
Final Test Time	21:05:00 HH:mm:ss



## Test Results

### Recovery:

467'	HMW	77% W	23% M
264'	MW	95% W	5% M
731'	Total Fluid		

Tool Sample: 97% W 3% M

RW. .5 @ 72 Deg  
 PH: 7  
 Chlorides: 16,000 PPM



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: McRae-Tx-Trust 1 Dst 2

TIME ON: 16:24 Oct 23  
TIME OFF: 00:59 Oct 24

Company Raymond Oil Company Inc. Lease & Well No. McRae-Tx-Trust 1  
Contractor H2 Drilling Charge to Raymond Oil Company Inc  
Elevation 3253 Est Formation Marmition Effective Pay \_\_\_\_\_ Ft. Ticket No. RR108  
Date Oct/23/2014 Sec. 22 Twp. 19 S Range 36 W County Wichita State KANSAS  
Test Approved By Cliff Ottaway Diamond Representative RICKY RAY

Formation Test No. 2 Interval Tested from 4391 ft. to 4443 ft. Total Depth 4443 ft.  
Packer Depth 4386 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4391 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4379 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4432 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 57 Drill Collar Length 364 ft. I.D. 2 1/4 in.  
Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 6000 P.P.M. Drill Pipe Length 4002 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number SJ Test Tool Length 23 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 52(20P) ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: NO BLOW NOBB  
2nd Open: NO BLOW (Flushed Tool 5 mins in/ Small Blow) NOBB

Recovered <u>5</u> ft. of M <u>100% M</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: Tool Sample: <u>3% O 97% M</u>	Insurance
	Total

Time Set Packer(s) 7:11 PM Oct/23 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 10:56 PM Oct/24 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 110

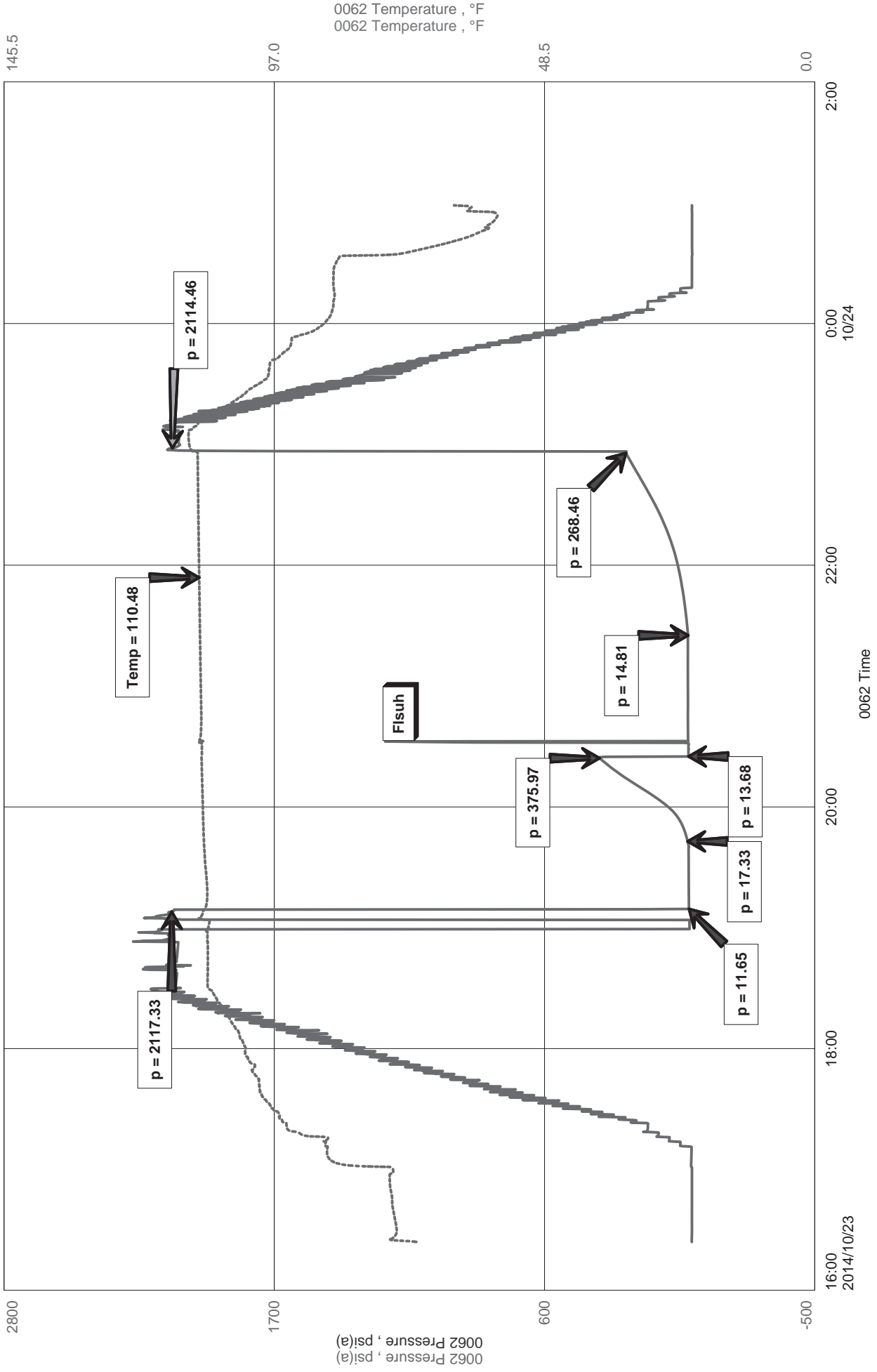
Initial Hydrostatic Pressure..... (A) 2117 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 17 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 376 P.S.I.  
Final Flow Period..... Minutes 45 (E) 14 P.S.I. to (F) 15 P.S.I.  
Final Closed In Period..... Minutes 90 (G) 268 P.S.I.  
Final Hydrostatic Pressure..... (H) 2114 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

Raymond Oil Company Inc.  
Dst 2 Marmition (4391-4443)  
Start Test Date: 2014/10/23  
Final Test Date: 2014/10/24

MacRae-Tx-Trust 1  
Formation: Dst 2 Marmition (4391-4443)  
Pool: Wildcat  
Job Number: RR108

# MacRae-Tx-Trust 1







Diamond Testing LLC  
 P.O. Box 157  
 HoisingtonKS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

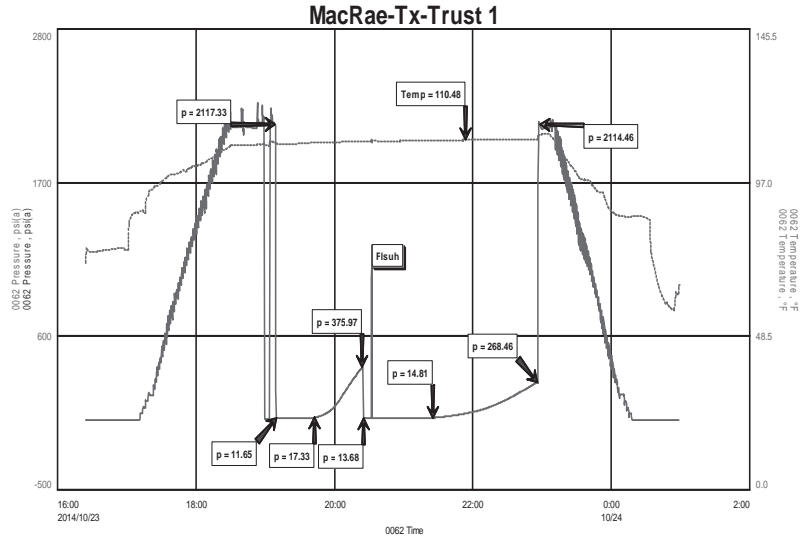
# Wellsite Report

## General Information

Company Name	Raymond Oil Company Inc.
Contact	Ted Mchenry
Well Operator	Raymond Oil Company Inc.
Well Name	MacRae-Tx-Trust 1
Surface Location	Sec: 22-19s-36w (Wichita County)
Field	WC
Well Type	Vertical
Pool	Wildcat
Test Purpose (AEUB)	Initial Test
Qualified By	Cliff Ottaway
Gauge Name	0062

## Test Information

Job Number	RR108
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 2 Marmition (4391-4443)
Start Test Date	2014/10/23 YYYY/MM/DD
Start Test Time	16:24:00 HH:mm:ss
Final Test Date	2014/10/24 YYYY/MM/DD
Final Test Time	00:59:00 HH:mm:ss



## Test Results

Recovery:

5' M 100% M

Tool Sample: 3% O 97% M



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: McRae-Tx-Trust 1 Dst 3

TIME ON: 16:35 Oct 24  
TIME OFF: 01:20 Oct 25

Company Raymond Oil Company Inc. Lease & Well No. McRae-Tx-Trust 1  
Contractor H2 Drilling Charge to Raymond Oil Company Inc  
Elevation 3253 Est Formation Myrick Station Effective Pay \_\_\_\_\_ Ft. Ticket No. RR109  
Date Oct/24/2014 Sec. 22 Twp. 19 S Range 36 W County Wichita State KANSAS  
Test Approved By Cliff Ottaway Diamond Representative RICKY RAY

Formation Test No. 3 Interval Tested from 4530 ft. to 4554 ft. Total Depth 4554 ft.  
Packer Depth 4525 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4530 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4517 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4534 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 55 Drill Collar Length 364 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 7100 P.P.M. Drill Pipe Length 4141 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number SJ Test Tool Length 23 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 24 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: No Blow (Built to 3/4" of an inch in 30 mins) NOBB  
2nd Open: No Blow NOBB

Recovered 167 ft. of HWM 37% W 63% M  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	RW .32 @ 60 Deg	Price Job
Recovered _____ ft. of _____	PH: 7	Other Charges
Remarks: Tool Sample: <u>20% W</u> <u>80% M</u>	Chlorides: <u>32,000ppm</u>	Insurance
		Total

Time Set Packer(s) 7:34 PM Oct/24 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 11:20 PM Oct/24 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 114

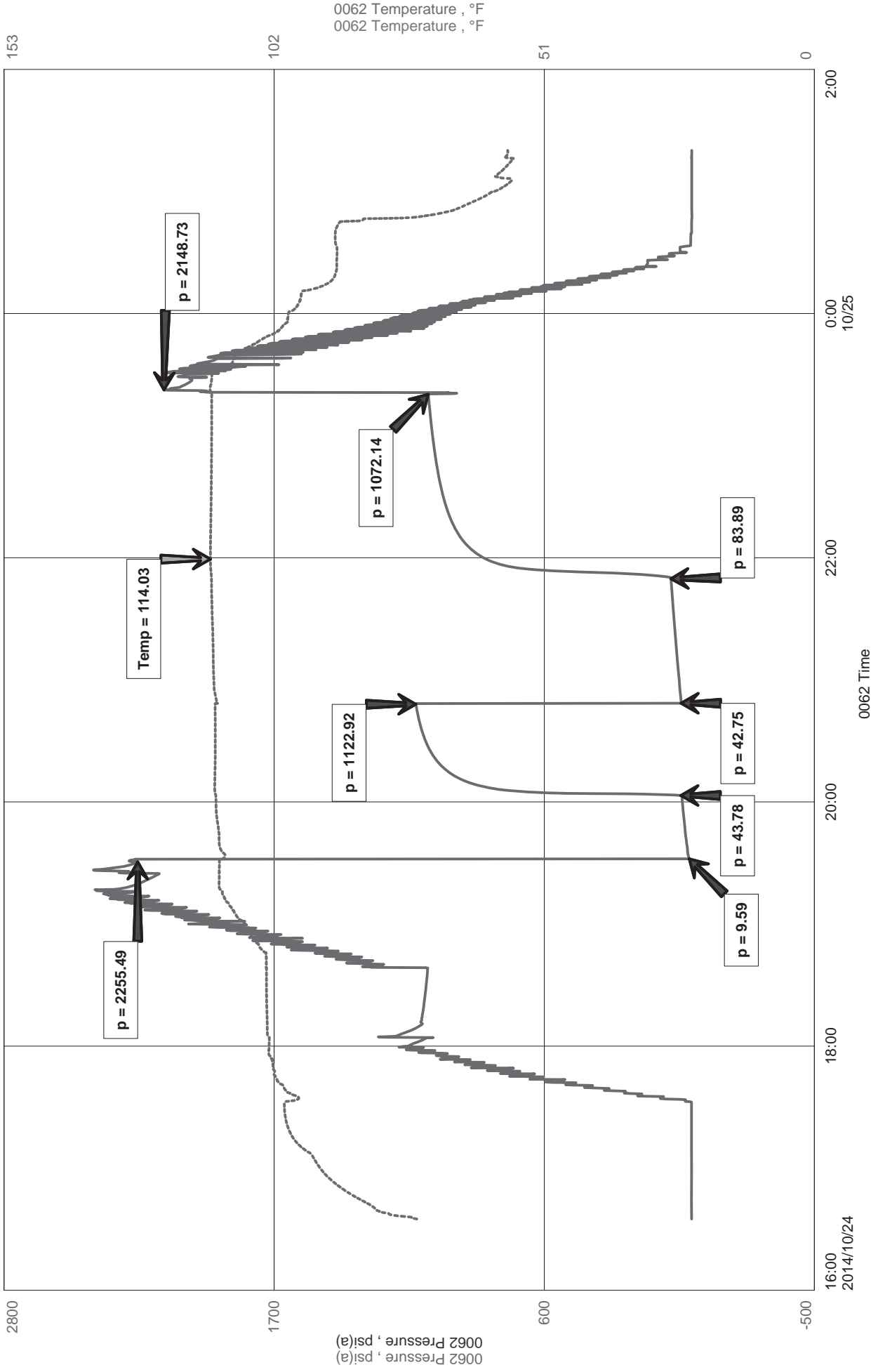
Initial Hydrostatic Pressure..... (A) 2255 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 44 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 1123 P.S.I.  
Final Flow Period..... Minutes 45 (E) 43 P.S.I. to (F) 84 P.S.I.  
Final Closed In Period..... Minutes 90 (G) 1072 P.S.I.  
Final Hydrostatic Pressure..... (H) 2149 P.S.I.

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Raymond Oil Company Inc  
Dst 4 Myric Station (4530-4554)  
Start Test Date: 2014/10/24  
Final Test Date: 2014/10/25

MacRae Tx Trust 1  
Myric Station (4530-4554)  
Pool: WC  
Job Number: RR109

# MacRae Tx Trust 1





Diamond Testing LLC  
P.O. Box 157  
HoisingtonKS 67544

Ricky Ray - Tester  
(620) 617-7261

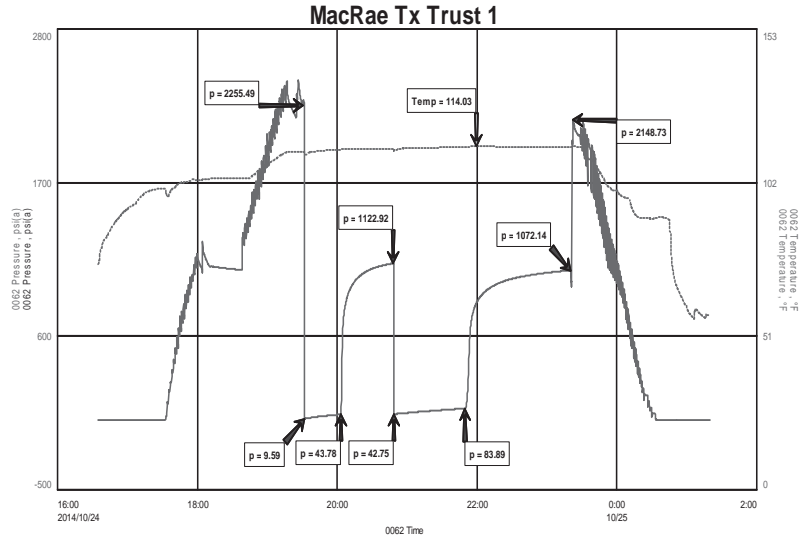
# Wellsite Report

## General Information

Company Name	Raymond Oil Company Inc
Contact	Ted Mchenry
Well Operator	Raymond Oil Company Inc
Well Name	MacRae Tx Trust 1
Surface Location	Sec: 22-19s-36w (Wichita County)
Field	WC
Well Type	Vertical
Pool	WC
Test Purpose (AEUB)	Initial Test
Qualified By	Cliff Ottaway
Gauge Name	0062

## Test Information

Job Number	RR109
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 4 Myric Station (4530-4554)
Start Test Date	2014/10/24 YYYY/MM/DD
Start Test Time	16:35:00 HH:mm:ss
Final Test Date	2014/10/25 YYYY/MM/DD
Final Test Time	01:20:00 HH:mm:ss



## Test Results

Recovery:

167'                      HWM                      37% W                      63% M

Tool Sample: 20% W                      80% M

RW. .32 @ 60 Deg  
PH: 7  
Chlorides: 32,000 ppm



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: McRae-Tx-Trust 1 Dst 4

TIME ON: 09:02  
TIME OFF: 18:59

Company Raymond Oil Company Inc. Lease & Well No. McRae-Tx-Trust 1  
Contractor H2 Drilling Charge to Raymond Oil Company Inc  
Elevation 3253 Est Formation Mississippi Effective Pay \_\_\_\_\_ Ft. Ticket No. RR110  
Date Oct/27/2014 Sec. 22 Twp. 19 S Range 36 W County Wichita State KANSAS  
Test Approved By Cliff Ottaway Diamond Representative RICKY RAY

Formation Test No. 4 Interval Tested from 4839 ft. to 4880 ft. Total Depth 5022 ft.  
Packer Depth 4834 ft. Size 6 3/4 in. Packer depth 4880 ft. Size 6 3/4 in.  
Packer Depth 4839 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4827 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 5010 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 53 Drill Collar Length 364 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 6500 P.P.M. Drill Pipe Length 4592 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number SJ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 41 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 3/4" Blow " BOB in 10 1/2 mins" NOBB  
2nd Open: 3/4" Blow " BOB in 5 mins" NOBB

Recovered 368 ft. of HMW 55% W 45% M  
Recovered 1100 ft. of W 100% W  
Recovered 1468 ft. of Total Fluid

Recovered _____ ft. of _____	RW .19 @ 60 Deg	Price Job
Recovered _____ ft. of _____	PH: 7	Other Charges
Remarks: <u>Tool Sample: 100% W</u>	Chlorides: <u>68,000ppm</u>	Insurance
<u>Blow Straddle Recorder 1508p</u>		Total

Time Set Packer(s) 11:32 AM A.M. P.M. Time Started Off Bottom 3:17 A.M. P.M. Maximum Temperature 120

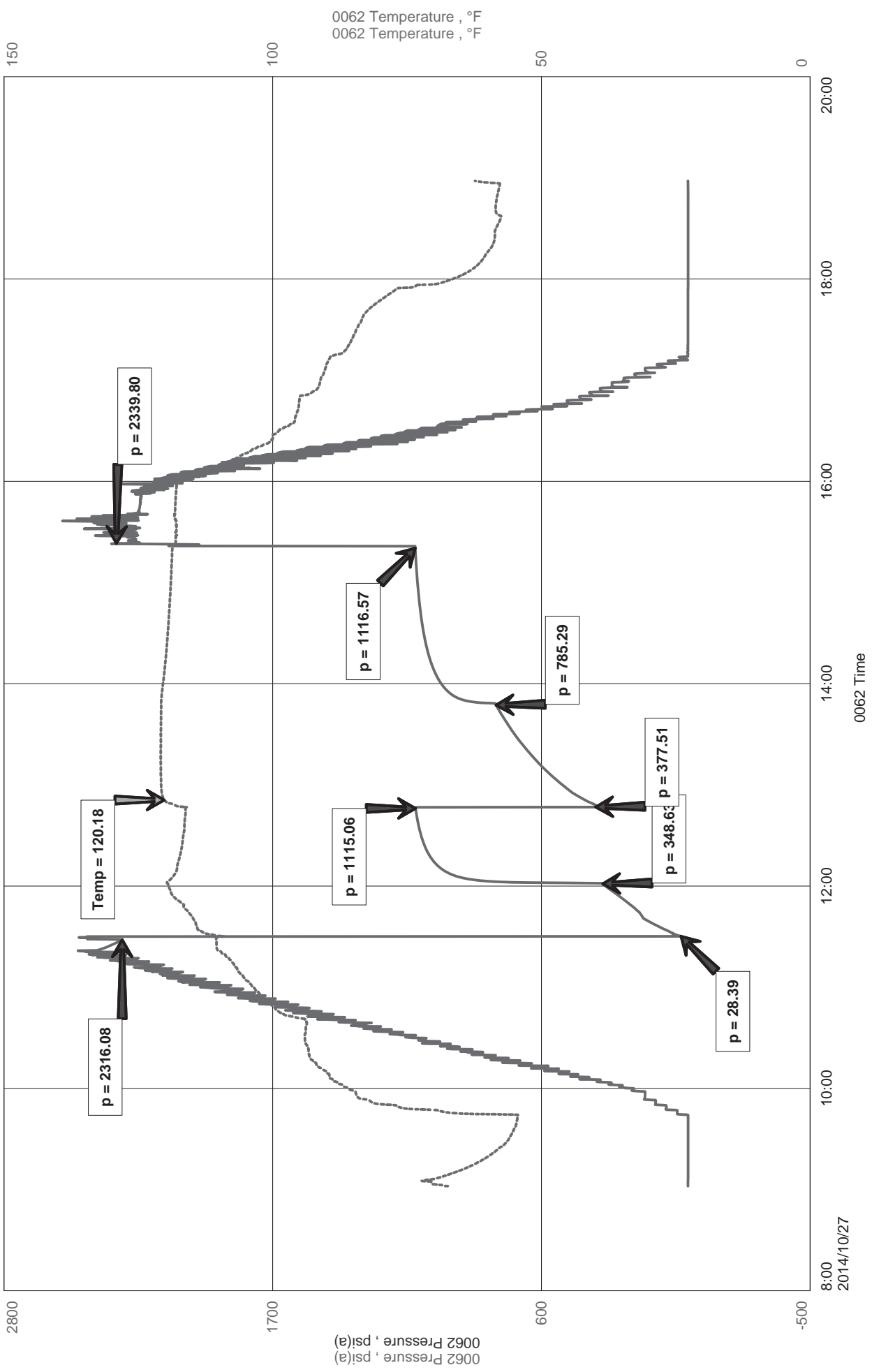
Initial Hydrostatic Pressure..... (A) 2316 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 28 P.S.I. to (C) 349 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 1115 P.S.I.  
Final Flow Period..... Minutes 45 (E) 378 P.S.I. to (F) 785 P.S.I.  
Final Closed In Period..... Minutes 90 (G) 1117 P.S.I.  
Final Hydrostatic Pressure..... (H) 2340 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

Raymond Oil Company Inc  
Dst 4 Mississippi (4839-4880) 5022 TD  
Start Test Date: 2014/10/27  
Final Test Date: 2014/10/27

MacRae Tx Trust 1  
Formation: Dst 4 Mississippi (4839-4880) 5022 TD  
Pool: Wildcat  
Job Number: RR110

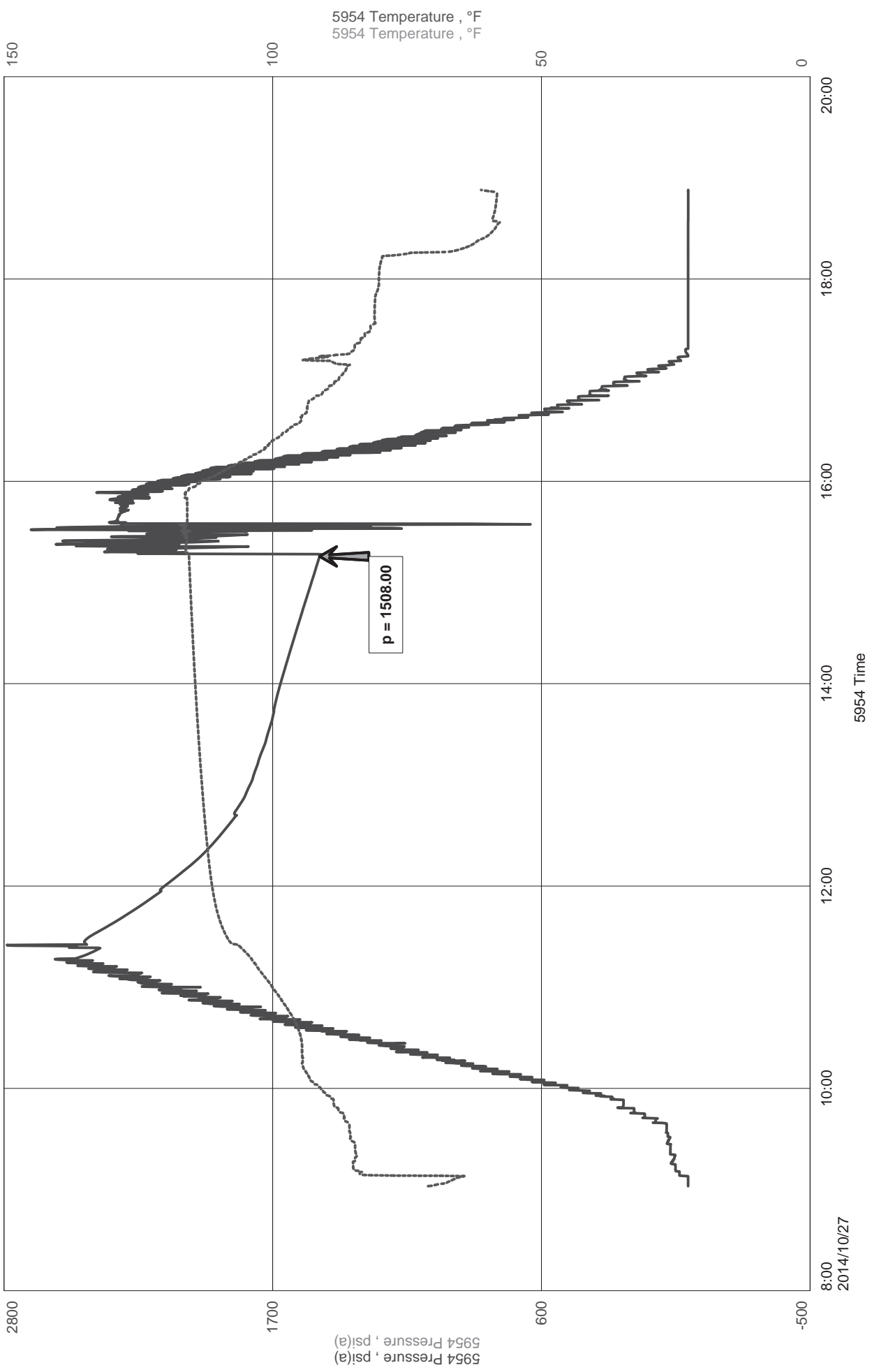
# MacRae Tx Trust 1



Raymond Oil Company Inc  
Dst 4 Mississippi (4839-4880) 5022 TD  
Start Test Date: 2014/10/27  
Final Test Date: 2014/10/27

MacRae Tx Trust 1  
Formation: Dst 4 Mississippi (4839-4880) 5022 TD  
Pool: Wildcat  
Job Number: RR110

# MacRae Tx Trust 1





Diamond Testing LLC  
 P.O. Box 157  
 Hoisington KS 67544

Ricky Ray - Tester  
 (620) 617-7261

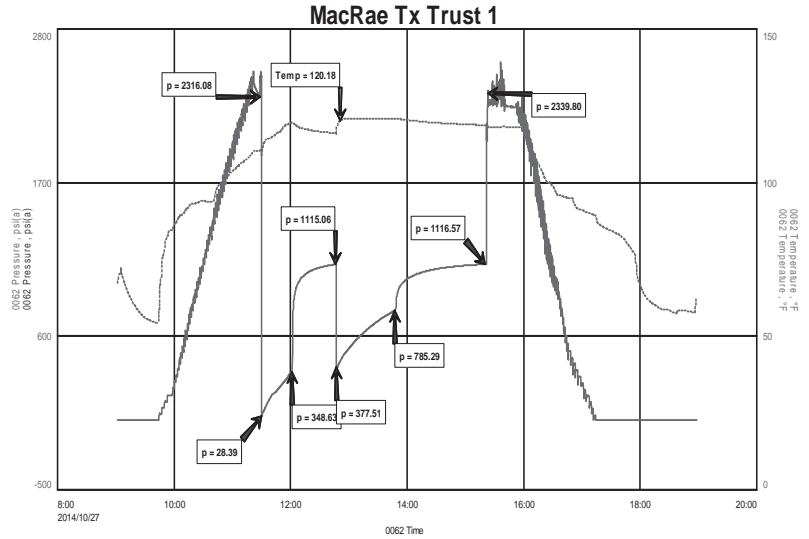
# Wellsite Report

## General Information

Company Name	Raymond Oil Company Inc
Contact	Ted henry
Well Operator	Raymond Oil Company Inc
Well Name	MacRae Tx Trust 1
Surface Location	Sec: 22-19s-36w (Wichita County)
Field	WC
Well Type	Vertical
Pool	Wildcat
Test Purpose (AEUB)	Initial Test
Qualified By	Cliff Ottaway
Gauge Name	0062

## Test Information

Job Number	RR110
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 4 Mississippi (4839-4880) 5022 TD
Start Test Date	2014/10/27 YYYY/MM/DD
Start Test Time	09:02:00 HH:mm:ss
Final Test Date	2014/10/27 YYYY/MM/DD
Final Test Time	18:59:00 HH:mm:ss



## Test Results

### Recovery:

368'	HMW	55% W	45% M
1100'	W	100% W	
1468'	Total Fluid		

Tool Sample: 100% W

RW: .19 @ 60 Deg  
 PH: 7  
 Chlorides: 68,000 PPM







**CONSOLIDATED**  
Oil Well Services, LLC

2/2/21

TICKET NUMBER 46700

LOCATION Oakley, KS

FOREMAN Jerry Y

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
10-27-14	7158	McRae Tx Trust #1	22	19S	36W	Wichita	
CUSTOMER		Mailing Address		TRUCK #	DRIVER	TRUCK #	DRIVER
Raymond Oil		Morionthe 1 Sto U, wto 17, s to w, w to 16 Ninto		399	Cory D		
CITY		STATE	ZIP CODE	460	Rob S		

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4762 CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE 4 1/2 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting @ rig up on H2 Rig 1 plug as ordered with 300SKS  
60/40 pro mix 4% gel 1/4" #16 seal  
50sk @ 2370'  
80sk @ 1300'  
50sk @ 650'  
50sk @ 250'  
20sk @ 60'  
20 sks MH 30sk RH

Thank you  
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1395.00	1395.00 ✓
5406	65	MILEAGE	5.25	341.25 ✓
5407A	12.9	ton mileage delivery	12.2	146.738 ✓
1131	300sk	60/40 pro mix	15.86	4758.00 ✓
1186	1032 #	gel	27	27864 ✓
1107	75 #	Flow seal	297	22275 ✓
			Subtotal	8463.02 ✓
			less 10% disc.	846.30 ✓
			Subtotal	7616.72 ✓
			SALES TAX	385.178 ✓
			ESTIMATED TOTAL	8002.51 ✓

Ravin 3737

AUTHORIZATION Carlos Fabele TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

CLIFTON (CINF) OTTAWAY  
CONSULTING GEOLOGIST  
PO Box 494 Hays, Ks 67601  
785-628-6900  
785-623-1598 cell

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

Well Name: #1 McRae TX Trust

Well Id:

Location: NW SW NW SW Sec. 22-19-36

License Number: 15-203-20295-00-00

Spud Date: 10-18-14

Surface Coordinates: 1921' FSL & 130' FWL

Region: Wichita, County  
Drilling Completed: 10-27-14

Bottom Hole

Coordinates:

Ground Elevation (ft): 3252.5

Logged Interval (ft): 2600

Formation:

Type of Drilling Fluid:

Chemical  
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

K.B. Elevation (ft): 3263

To: 5022 Total Depth (ft): 5022

Council Grove to Mississippi

OPERATOR

Company: Raymond Oil Co. Inc.  
Address: PO Box 48788  
Wichita Ks 67201

GEOLOGIST

Name: Clifton (Cliff) Ottaway  
Company:  
Address: 211 E. 32nd St.  
Hays, Ks. 67601

Formation Tops

Formation	Sample	Log	Sub sea	Well A	Well B
Anhydrite	2299		+964	-3	+102
B/Anhy	3485		-222	+3	+117
Stotler	3890	3889	-626	-634	-748
Heebner	3937	3938	-675	-679	-799
Lansing-KC	4397	4368	-1134	-1136	-1265
Base-KC	4424	4404	-1141	-1171	-1303
Marmaton	4498	4488	-1225	-1246	-1399
Pawnee	4540	4524	-1261	-1286	-1435
Myrick Station					

FT SCOTT	4338	4340	-1211	-1302	-1431
Cherokee	4588	4570	-1307	-1333	-1483
Johnson Zone	4638	4612	-1349	-1386	-1529
Marrow Shale	4767	4742	-1479	-1506	-1678
Mississippi	4903	4862	-1599	-1632	-1897
RTD	5022		-1759		
LDT	5024		-1761		

WELL "A" Woolsey Pet Shimanek #1 Sec 28-19-36  
 WELL "B" Helmerick & Payne #1-27 Sec 27-19-36

DSTS

- DST No 1 4176-4201
- DST No. 2 4391-4443
- DST No. 3 4530-4554
- DST No. 4 4839-4880

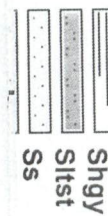
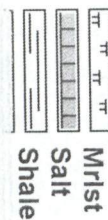
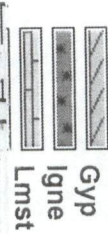
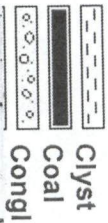
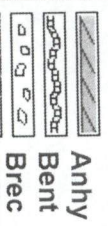
Comments

8 5/8" Set @ 265' w 180 sks  
 D&A @ 5022'

Based on Drill Stem Test results, lack of show and logs, it was decided to plug and abandon this test hole.

Strap 4202.35  
 Board 4202.29  
 .....  
 Dif. .06

ROCK TYPES



Cht    
  Dol    
  Meta    
  Shcol    
  Till

**MINERAL**

Anhy  
 Arggrn  
 Arg  
 Bent  
 Bit  
 Breccfrag  
 Calc  
 Carb  
 Chtdk  
 Chtit  
 Dol  
 Feldspar  
 Ferrpel  
 Ferr  
 Glau

Gyp  
 Hyvmin  
 Kaol  
 Marl  
 Minxl  
 Nodule  
 Phos  
 Pyr  
 Salt  
 Sandy  
 Silt  
 Sil  
 Sulphur  
 Tuff

**FOSSIL**

Algae  
 Amph  
 Belm  
 Bioclst  
 Brach  
 Bryozoa  
 Cephal  
 Coral  
 Crin  
 Echin  
 Fish  
 Foram  
 Fossil  
 Gastro  
 Oolite

Ostra  
 Pelec  
 Pellet  
 Pisolite  
 Plant  
 Strom

**TEXTURE**

Boundst  
 Chalky  
 Cryxin  
 Earthy  
 Finexin  
 Grainst  
 Lithogr  
 Microxin  
 Mudst  
 Packst  
 Wackest

**STRINGER**

Anhy  
 Arg  
 Bent  
 Coal  
 Dol  
 Gyp  
 Ls  
 Mrst

**OTHER SYMBOLS**

**POROSITY**

Earthy  
 Fenest  
 Fracture

Vuggy  
 Well

**ROUNDING**

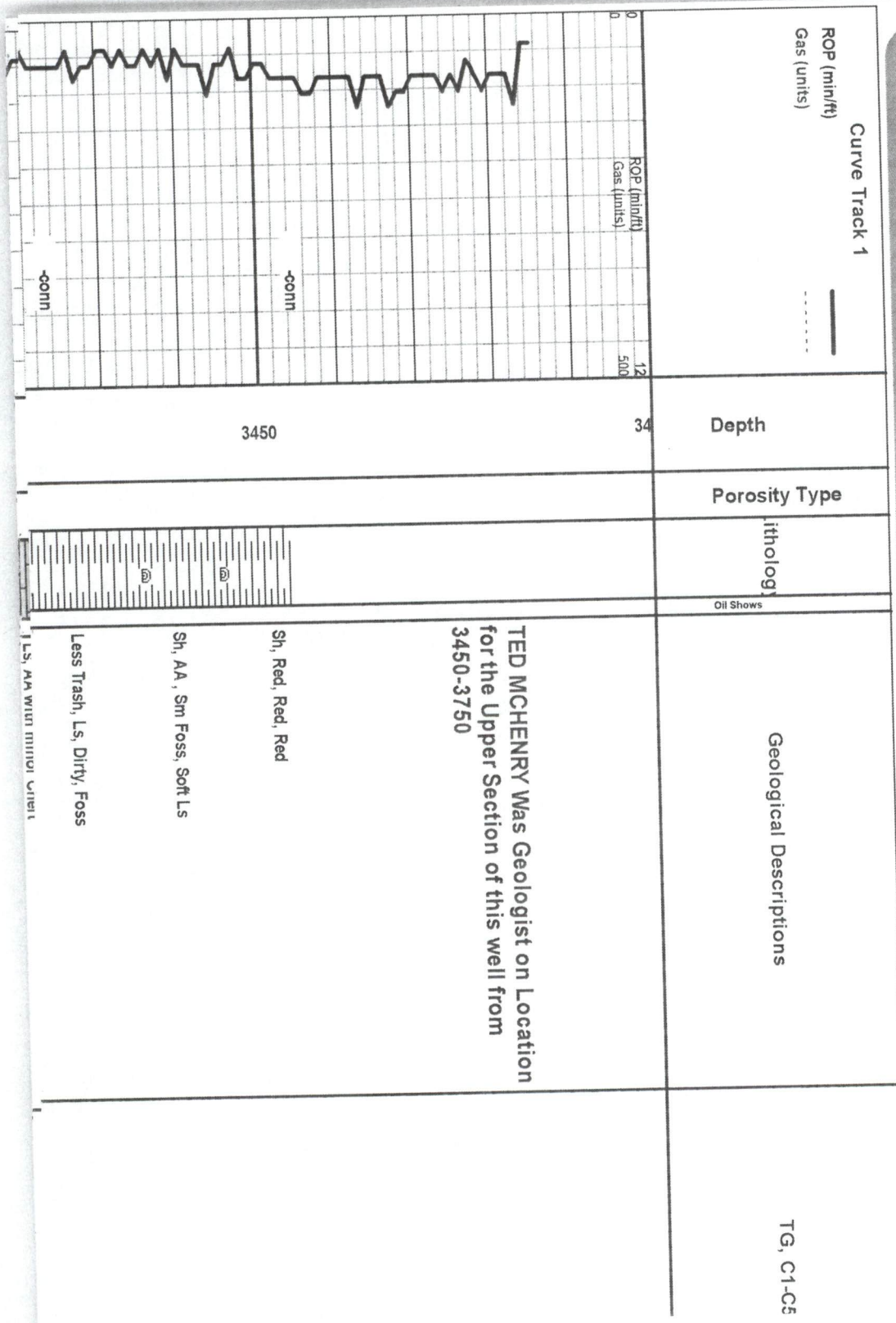
Rounded  
 Subrnd  
 Subang

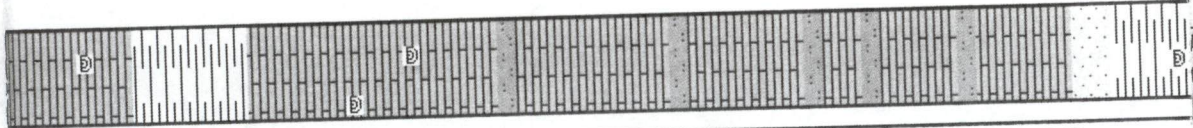
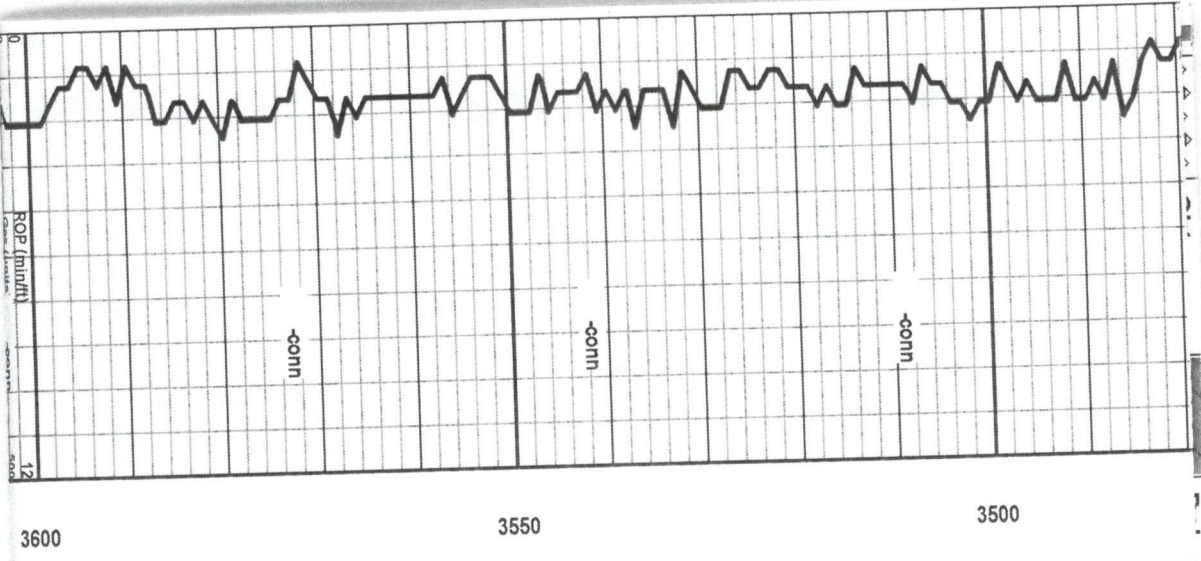
Spotted  
 Ques  
 Dead

**EVENT**

Rft  
 Sidewall

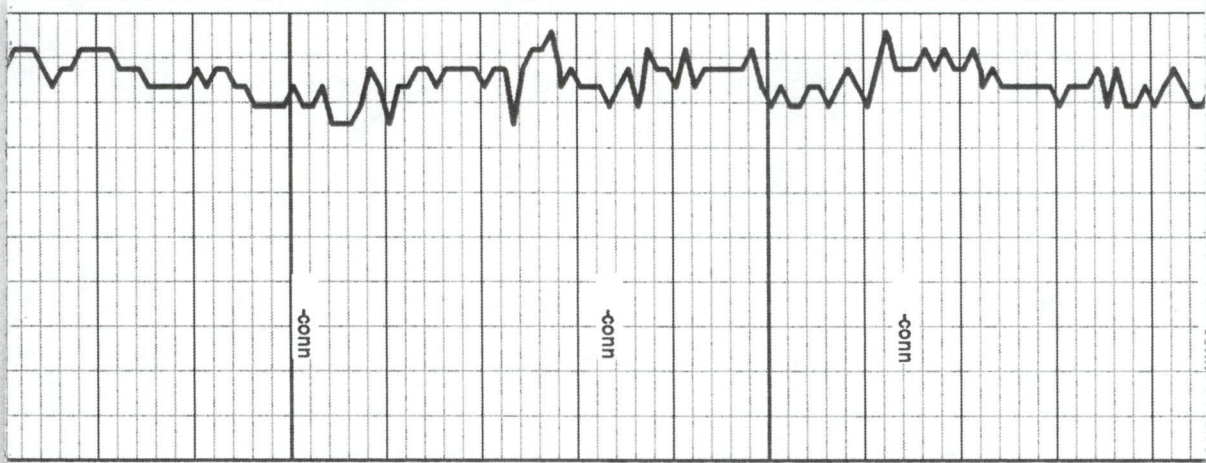
MOLDIC  
 ORGANIC  
 PINPOINT  
 MUCIARITE  
 POOR  
 OIL SHOW  
 EVEN  
 CORE  
 DST





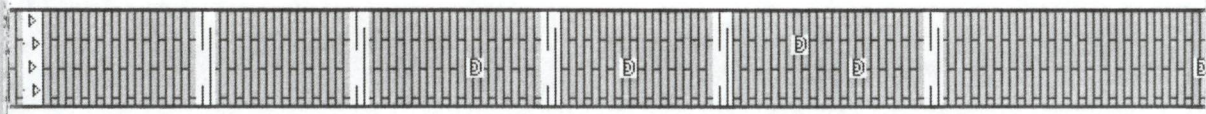
- SS, Fine grn, Gd Clusters, Dk Min Inclusions, Fresh Chert, Sub Rd, Angular, No Show
- SS, Dirty, Sub Rd, Dk min, Gry Sh
- SS, Wh, Fn Grnd, Sub Rd, Friable, rare gas bubble
- Ls, Wh-Crm, Sl Sandy
- SS, Wh, Fn Grnd, Dk Min, 1 Piece with Dk Asphaltic St
- Ls, Crm Chalky, Soft
- Ls, Crm, Soft, Some Sand
- Ls, AA, Foss, Dk Gry sh
- Ls, Crm, sl Foss, Dk Gry sh
- Sh, Red Bed
- Ls, Crm, Sl Foss
- Ls, Gry Sl Foss, Silty Gry Sh



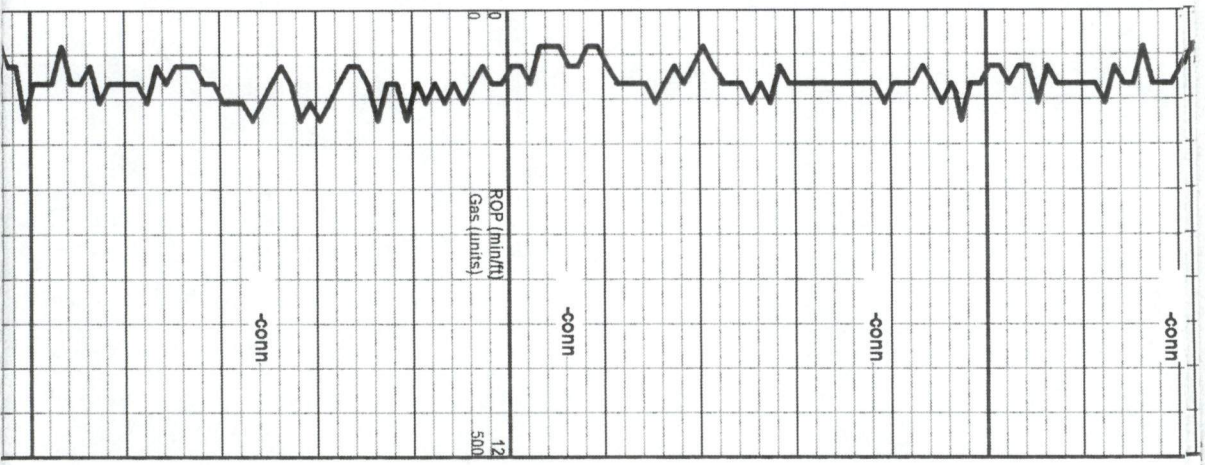


3700

3650



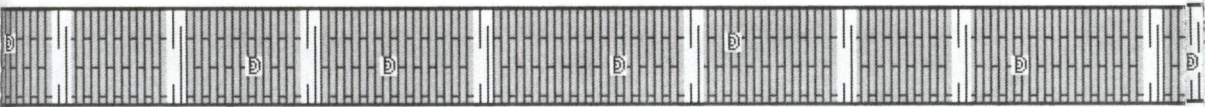
AA  
 AA  
 AA With Wh Chert, Wh Ls Chalky  
 Ls, Gry, Foss, Chalky, Wh Ls  
 Ls, Dk Gry, Foss  
 AA  
 Ls, Dk Gry, Foss, Gry Silty Sh  
 AA with Crm Ls  
 AA  
 Ls, Crm, Foss  
 Ls, AA with Gry Sh  
 Ls, AA  
 Ls, AA with minor Chert



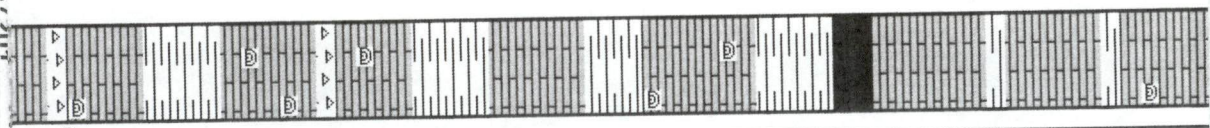
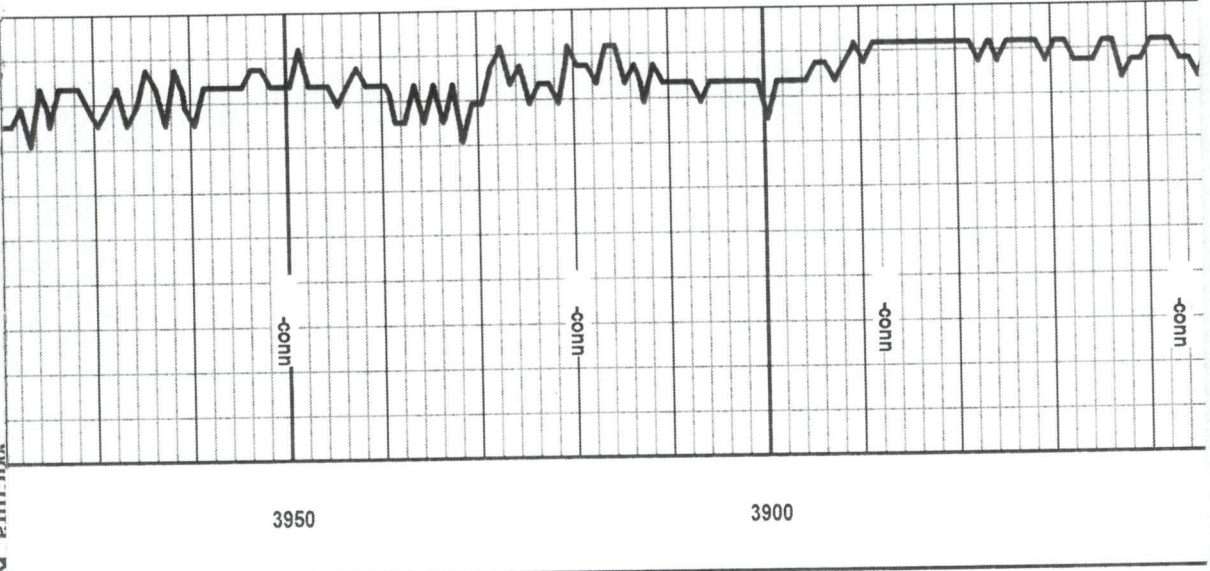
3850

3800

3750



- Ls, AA
- Ls, Crm-Brn, Foss, soft Gry Sh
- Ls, Crm Chalky
- Ls, AA, some Pyrite
- Ls, Crm, Sl Foss, Gry Sh
- Ls, AA
- Ls, AA, Blk Sh
- AA
- Ls, Crm, Sl Foss, Gry Sh
- Ls, Crm, Foss, Pellets, Gry Sh
- Ls, Brn-Crm, Foss
- Ls, Brn-Lt Gry, Foss, Fln, Dense No show



Ls, Gry, fxln, Foss, Dense, No show

Ls, AA, Sl Chalky

AA

**HEEBNER 3890 (-627)**  
Blk Carb, Silty

Ls, Tan-Gry, Foss, Fxln, No show Red, Brn Sh

**TORONTO 3912 (-649)**  
Ls, Tan, Fxln, Sl Cherty, Sl Chalky

**LANSING-KC. 3937 (-674)**

Ls, Wh-Orfw, Fxln, Foss, Dense, sl Cherty, Oolite, No Show

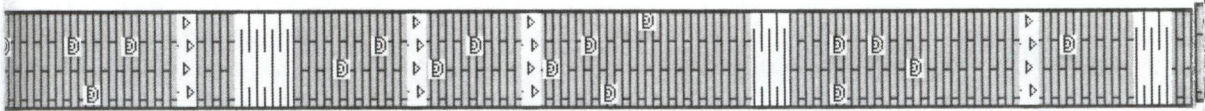
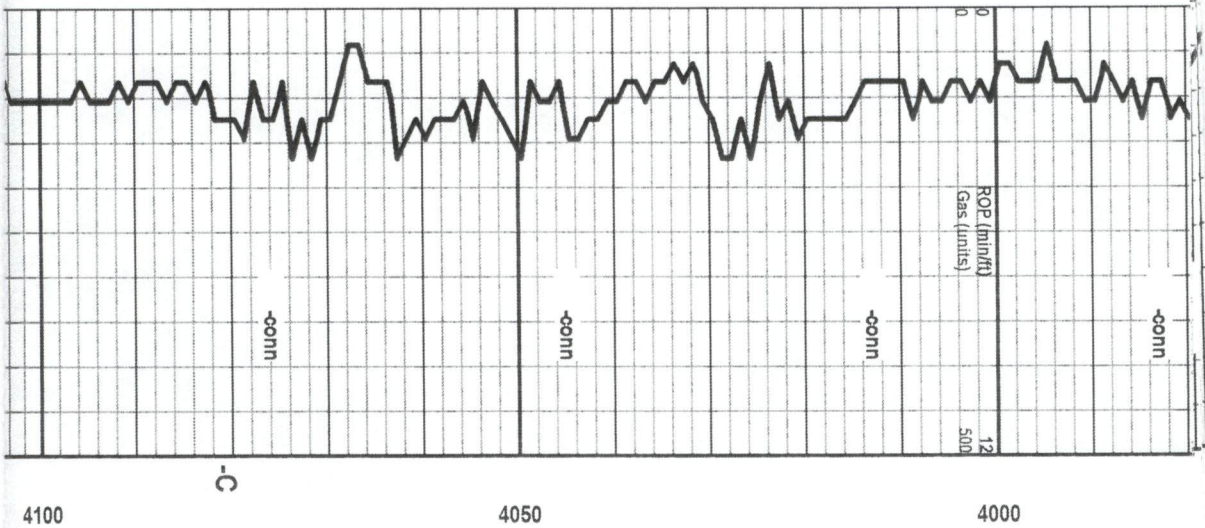
Ls, AA

Ls, Wh-Tan, Fxln, Foss, Sl Cherty, Chalky, T-Dk Asphaltic residue, St, No Order, Interxln Pos.

Ls, Wh-Orfw, Fxln, Foss, Oolite, Chalky, Sl Cherty, No show

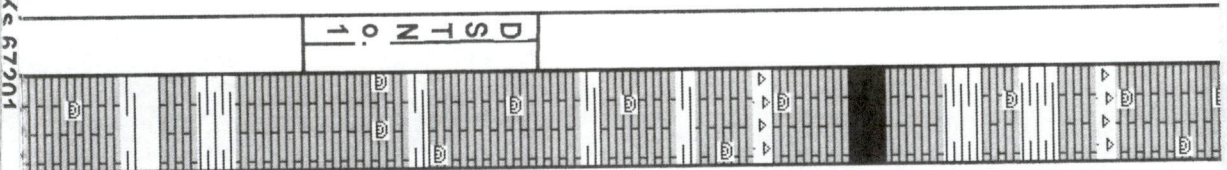
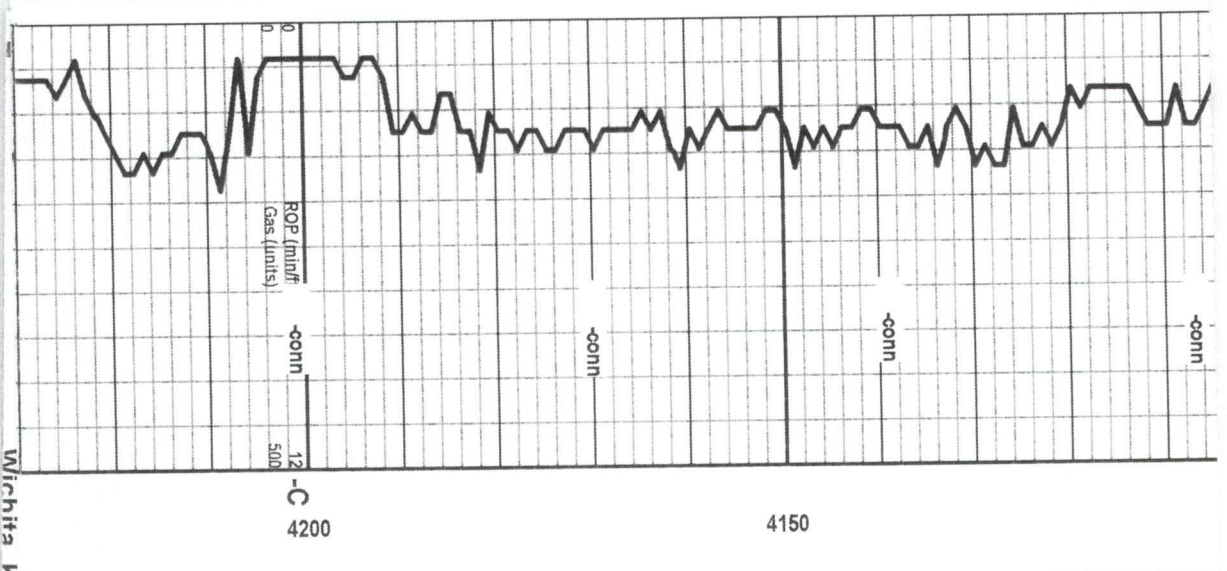
VIS: 52  
WT: 8.8  
LCM # 7

VIS: 49  
WT: 8.9  
LCM # 7



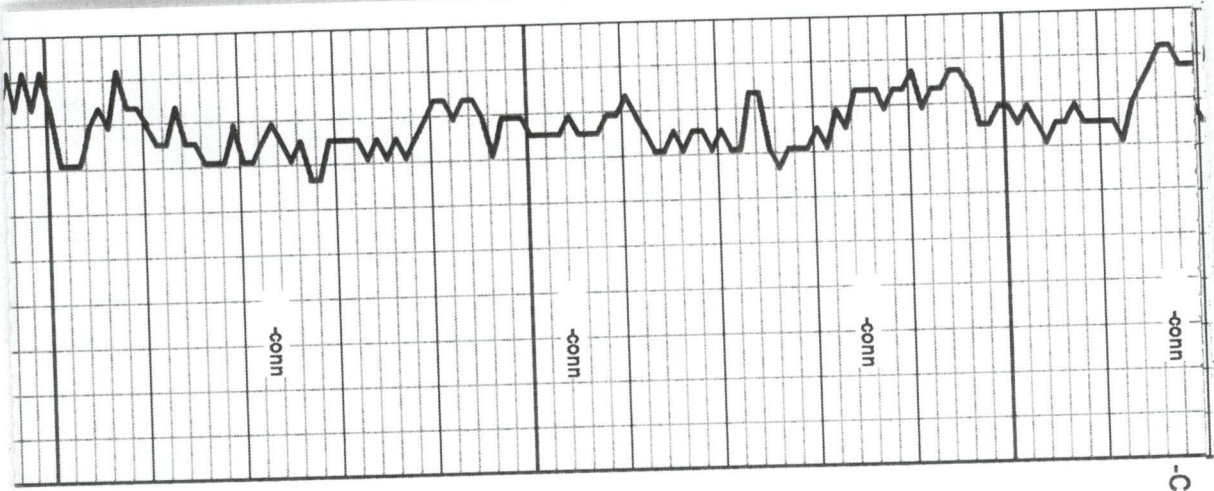
Ls, AA  
 Ls, Wh-Lt Gry, Fxln, Foss, Oolite, Sl Chalky, Tight  
 Ls, AA  
 Ls, Wh-Crm, Fxln, Foss, Oolite, Sl Chalky, Pyrite, Sl cherty, No Show  
 Ls, Wh-Tan, F-Mxln, Foss, sl Chalky, Oolite, Sl Cherty, No Show  
 Ls, Wh-Offwh, Fxln, Foss, Oolite, Sl Dolomite, Sl Chalky, Pyrite, No show  
 Ls, AA  
 Ls, Wh-Crm, Mxln, Foss, Oolite, Chalky-Firm, Sl Pyrite  
 Ls, AA

VIS: 58  
 WT: 8.8  
 LCM # 7



Ls, Wh-Lt Gry, Fxln-Microxln, Foss, Chalky, Sl Cherty No Show  
 Ls, Crm-Drk Gry, Fxln, Dense, Cherty, Foss, Chalky, No Show  
 Sh, Blk Carb, Gry  
 Ls, Wh-Tan, Fxln, Foss, Cherty, Chalky, No Show  
 Ls, AA  
 Ls, Wh-Offwh, Fxln, Foss, Sl, chalky  
 Ls, Wh-Offwh, Fxln, Foss, Oolite, Ooc, Sl, Chalky, Fo, St,  
 Ls, AA  
 Sh, Brn Gry, Blk  
 Ls, Wh-Offwh, Fxln, Chalky No Show  
 Ls, offwh-Tan, Fxln, Foss, Sl oolite, ooc, sl Chalky, T-FO, Dk St,

7:00 am 10-22-14 T  
 4201'  
 Vis: 56  
 Wt: 9.0  
 LCM # 7  
 DST NO. 1 4176-42  
 30-60-45-90  
 IO: BOB in 13 min  
 ISI: No Blow  
 FO: BOB in 16 min  
 FSI: No Blow  
 REC: 731' MW  
 IFP: 16-223  
 FFP: 227-382  
 ISIP: 1104  
 ECID: 1109



Vft Order, Interxln-ppv Pos

1011, 1102

Ls, Tan-Lt Gry, Fxln, Dense, Foss, Chalky-Firm, No show

Ls, AA

Ls, Tan-Dk Brn, Fxln, Dense, Foss, Chalky, No Show

Ls, AA Cherty, No Show

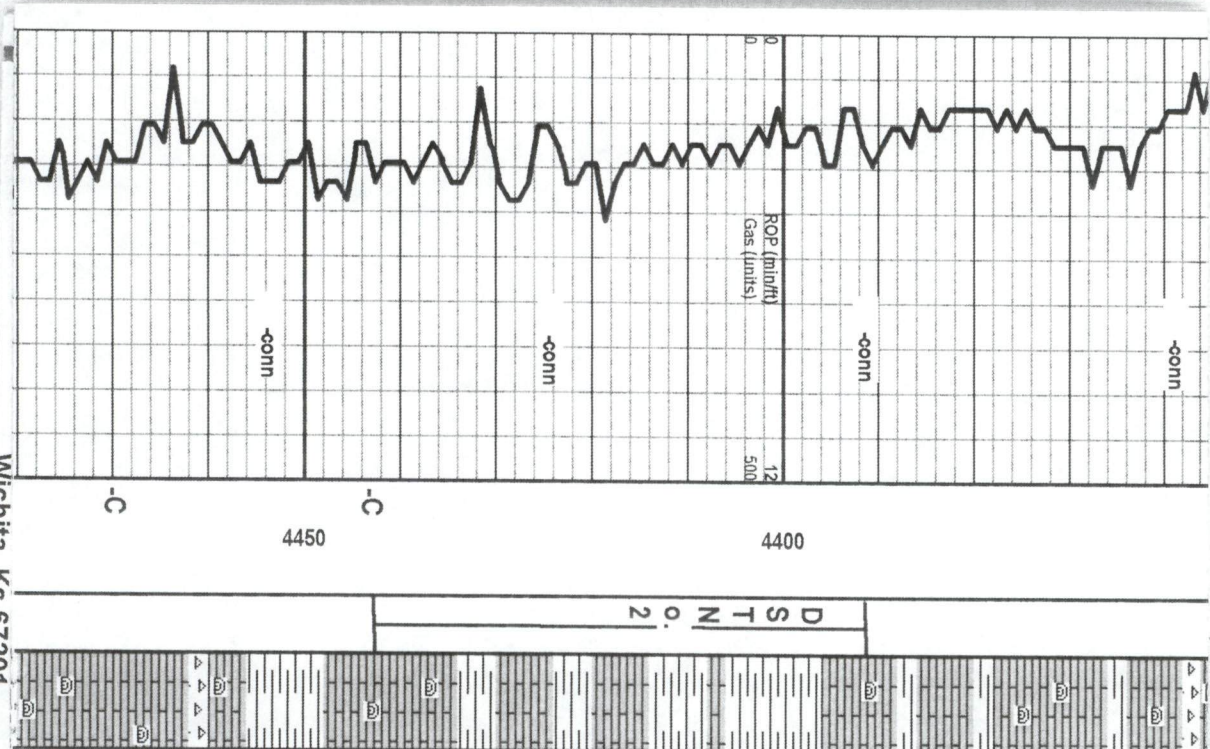
Ls, AA

Ls, Tan-Gry, Fxln, Dense, Sl Cherty, Chalky, No Show

Sh, Brn Blk, Gry

Ls, Tan-Gry, Fxln-Microxln, Oolite, Cherty, sl Chalky, No show

7:00 am 10-23-14  
 Drig@4325'  
 Vis; 50  
 Wt; 8.9  
 LCM # 7



Wichita Ke 67901

Ls, Brn, Fxln, Dolic, foss, Pyrite, sl Cherty, No show

Ls, AA, sl, chalky, oolitic No Show

Sh, Brn, Red, Gry, Sandy, silty

**BKC-4396 (-1133)**

Ls, Tan-Gry, oolitic, Dense, F-Mxln, Foss, Sl Chalky No Show

Ls, Tan-Gry, Fxln, Foss, Chalky-Firm No Show, Sh, Gry, brn

**MARMATON 4424 (-1161)**

Ls, Offwh-Tan, Fxln, Foss, oolitic, ooc, T-FO, Sl, Ft Order, gas, Interxln-Vuggy Pos.

Ls, Tan-Gry, fxln, Dense, Sl Chalky

Ls, Tan-Gry, Fxln, Foss, No show

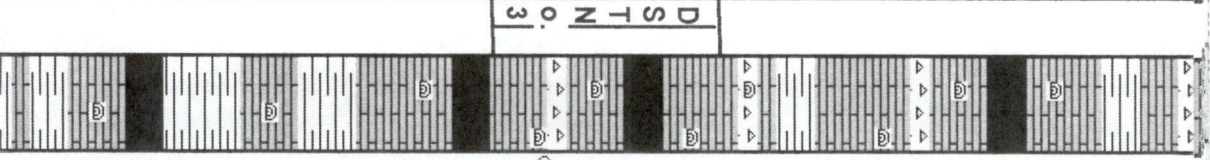
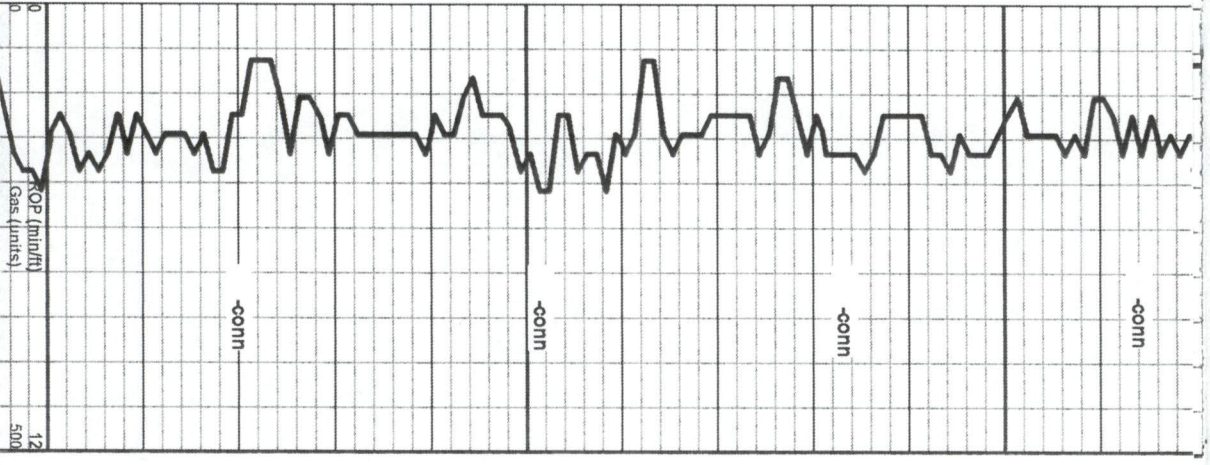
Sh, Blk, Gry, Brn

Ls, AA, Foss, Mottled, Tite, Sl Chalky, Cherty, Sh, Brn, Red, Blk

Ls, Tan-Drk Gry, Fxln, Dense, Cherty

Sh, Gry, Brn

DST NO. 2 4391-444:  
 30-60-45-90  
 1st Open: No Blow  
 2nd Open : No Blow  
 Rec: 5' Mud With Oil  
 tool  
 IF: 12-17  
 FF: 14-15  
 ISIP: 376  
 FSIP: 268



Ls, AA, Mottled, Tite, Sl Pyritic

**PAWNEE 4498(-1225)**  
Sh, Blk Carb

Ls, Tan-Gry, Fxln, Dense, Sl Cherty No show

Sh, Brn, Red, Gry

Ls, Tan-Lt Gry, Fxln, Foss, Dense, Cherty, No show

Sh, Blk Carb silty, blocky  
**MYRICK STATION 4540 (-1277)**

Ls, Tan-Gry, Dense, Crm-Tan, Fxln, sl oolite, Foss, TFO, St, No Order, Interxln-Ooc Pos, Sl Cherty, 2-3 Pieces in Tray

Sh, Blk Carb  
**FORT SCOTT 4558 (-1285)**

Ls, Tan, F-MXln, Foss, Dolite, Oolite, No show, sh, Red, Brn,

Ls, Crm-Tan, Fxln, Oolite, Mottled, Chalky-Firm, No Show

**CHEROKEE 4588 (-1325)**  
Sh, Blk Carb

Ls, Tan-Dk Gry, Fxln, Tlght, Sl Cherty, No show,

Sh, Blk, Gry, silty

7:00 am 10-24-14 Dri

Vis: 58  
Wt: 9.1  
LCM # 6

Vis:57  
Wt: 9.1  
LCM # 6

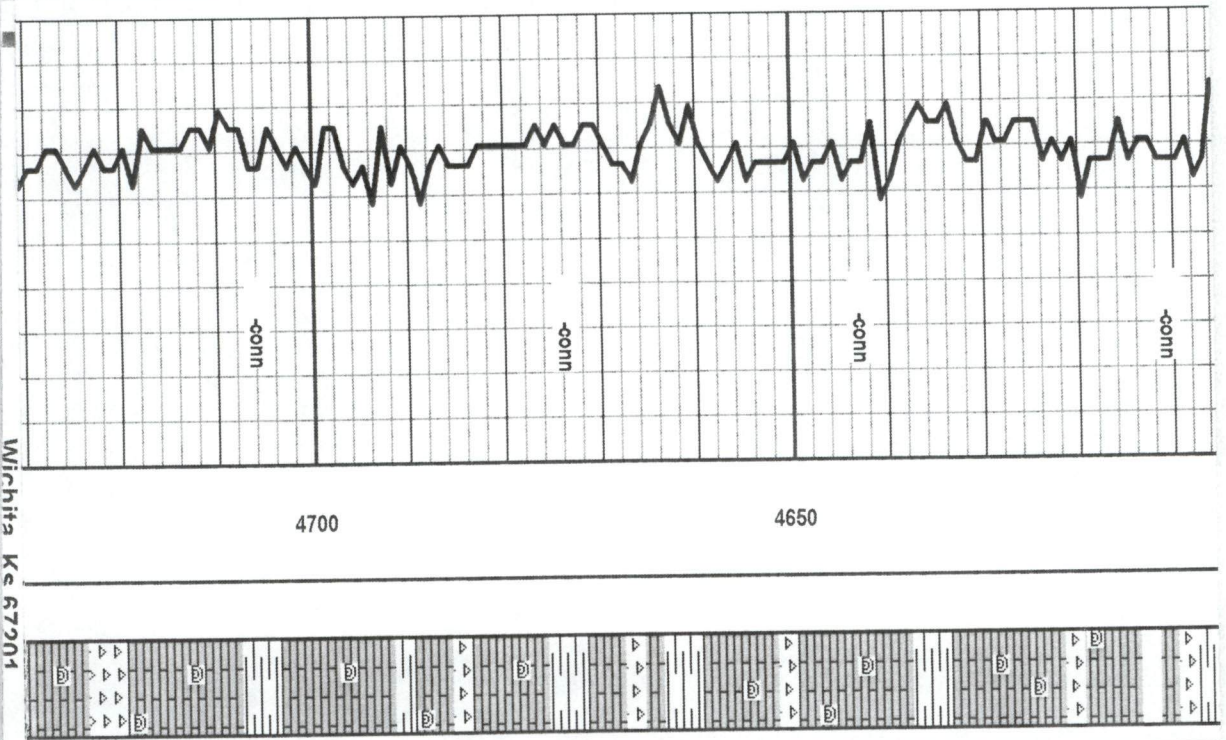
DST NO. 3 4530-45  
30-60-45-90  
Rec:167' HWM  
1st Open 3/4" in 30  
2nd Open No Blow  
If: 10-44  
Ft: 43-84  
ISIP: 1123  
FSIP: 1072

Vis:57  
Wt: 9.1  
LCM #6  
7:00 am 10-25-14 Dri  
Vis: 57



Wt: 9.0  
LCM # 6

Vis: 50  
Wt: 9.1  
LCM # 6



Ls, Crm-Gry, VFxln, sl Oolitic, Foss, sl Cherty, Tight, No show

Ls, Tan-Gry, Fxln-Microxln, tight, sl cherty, No show

Ls, Tan-Brn, F-VFxln, Foss, tight, Gry-Brn sh

Ls, Tan, VFxln, Pyrite

Sh, Bk Carb-Gry, Silty

**JOHNSON ZONE 4638 (1375)**

Ls, Crm-Tan, F-Mxln, Ls, Tan-Brn, VFxln, Dense, Gry, Bk, Sh

Ls, Tan-Brn, VFxln, Tight, Sl Chalky, Brn Chert, Angular, Fresh

Sh, Gry, Brn Bk

Ls, Tan-Lt Gry, VFxln, Foss, tight, Dense, Sl Cherty, No Show

Ls, Crm-Tan, Fxln-Mxln, Foss, Cherty, Tight, No Show

Ls, Tan-Brn, F-Mxln, Foss, Tight, Cherty, No show Sh, Brn, Red, Gry

Ls, AA

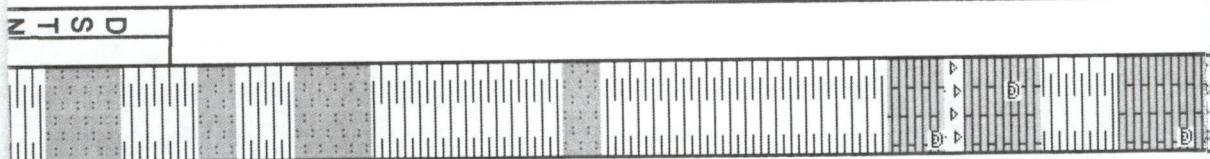
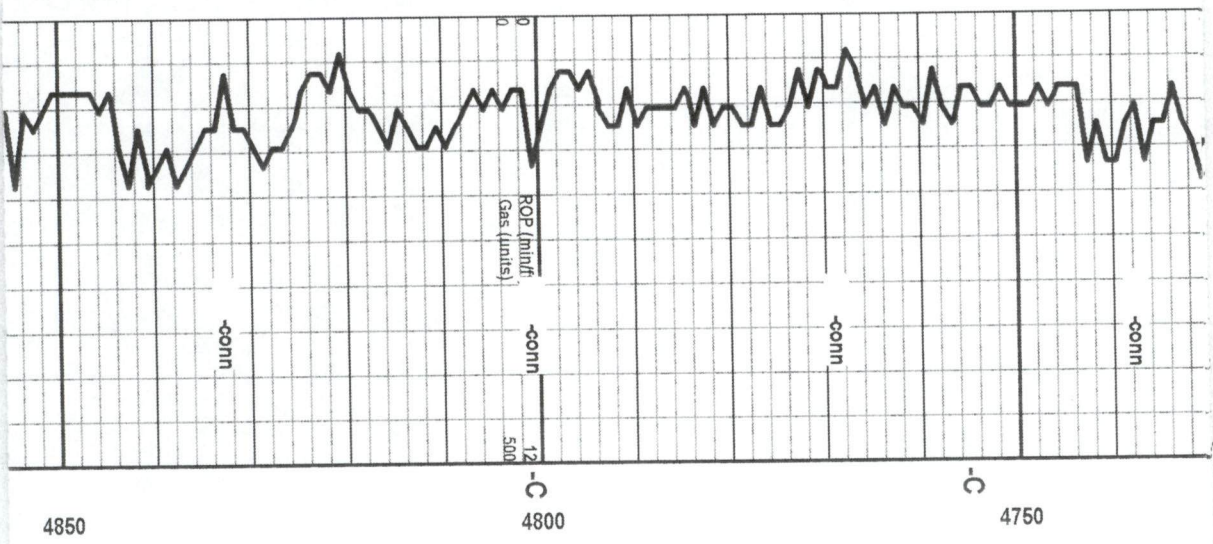
**ATOKA 4693 (-1430)**

Ls, Tan-Gry, Fxln, Foss, Sl Chalky, Ls, Crm Fxln, Foss, Sh, Bk, Gry, No show

Ls, Crm-Tan, Fxln, foss, Sl Chalky, No show, Inc Sh Bk, Gry, Brn

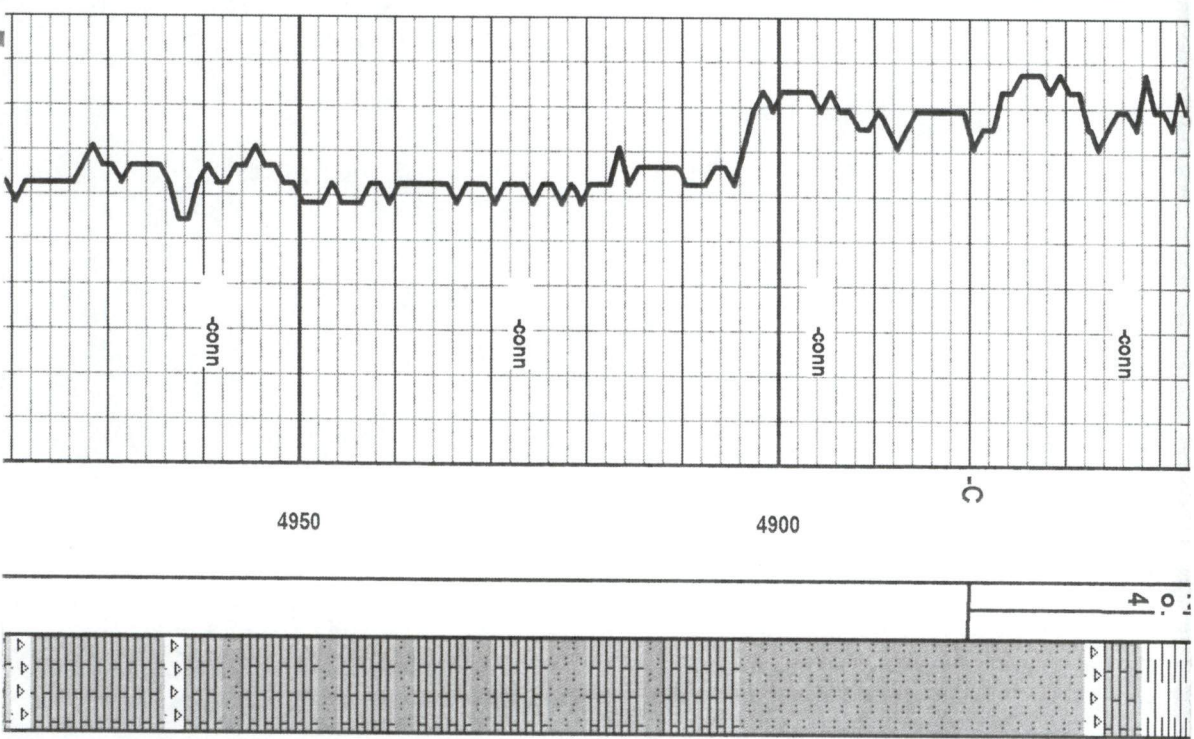
Ls, AA, sl Cherty,

Wichita Ke 67201



Is, Tan-tt Gry, F-MXln, Foss, No show, Sh, Red, Brn, Gry  
 Ls, Crm-Tan, Fxln, foss, tight, Sl chalky No show, Sh, Brn, Gry, Grn,  
 Ls, AA, Sh, Red, Gry, Brn, Silty  
 Ls, Crm-tt Gry, Fxln, Foss, cherty, No Show  
**MARROW SHALE 4767 (-1504)**  
 Sh, Blk, Gry, Brn, Grn, silty,  
 Ls, Crm-Tan, Fxln, Sh, Blk, Gry, Grn, T-Sst, clear-frosted, Sub  
 Angular, M-gr, Well Cemented, No /show  
 Sh, Blk, Brn, Gry, grn, silty, Pyritic, No show  
 SSt, Clear, Frosted, Mgr, Sub Ang, Well cemented Clusters, Sl  
 Pyritic, No Show  
 Sh, Brn, Grn, blk  
 Ls, Crm, F-MXln, foss, Glocc, Oolitic, Sl Chalky, Pyrite, Sh, Gry,  
 Brn, Grn, blk  
 Ls, AA, Sh Grn, Gry, silty  
 Ls, Tan-Crm, Fxln, Foss, Mottled, Sl Chalky, Sh, Gry, Brn, Grn,  
 No show  
 AA, Pyritic, Sl Chalky, No show  
 Ls, Tan-Gry, Fxln, Dense, sl Chalky, Cherty, Foss, Sh, Grn, Gry,  
 Brn, SSt Clusters, Clear-frosted, well Sorted, No show  
 Sh, Grn, Gry, Blk, Silty, Pyritic

Vis: 58  
 Wt: 9.1  
 LCM # 6  
 Vis: 58  
 Wt: 9.1  
 LCM # 5  
 DST No. 4 4839-48  
 30-60-45-90  
 Rec: 368' HMM  
 1100' SW  
 4839-48 BOP in 48



Michita Kc 67201

Ls, Gry, Fxln, Dense, Orange-Brn Chert, Sh, Grn, Brn, Gry, No show

SSt, Clear-Frosted, well sorted, Well rounded, F-Mgr, Friable, Cherty, No show, White Sandstone Clusters

SSt, AA, Sh, Gry, Brn, Grn, Blk, silty No show

SSt, AA, Sh, Grn, Gry, Blk, Pyritic, Silty, No show

**MISSISSIPPI 4903 (-1640)**

Ls, Wh-Crm, fxln, Sandy, VF Quartz gr, Sh, Grn, Brn, Gry, No show White Sandstone clusters Friable

AA

AA

Ls, Wh-Crm, F-Mxln, Sl sandy, Dense, Tight, No show

Ls, AA

Ls, Tan-Crm, F-Mxln, Sl oolic, Tight, Sandy, sh, Gry, Brn, Grn No show

Ls, Tan, F-Mxln, Foss, Sl Cherty, Tight, No show

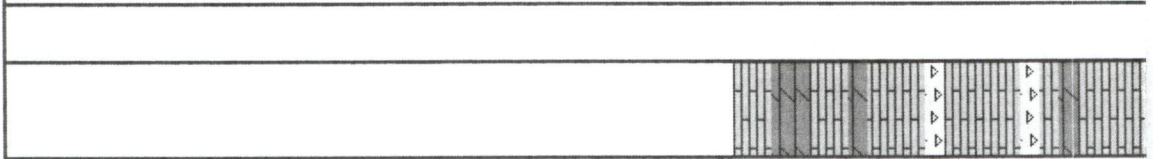
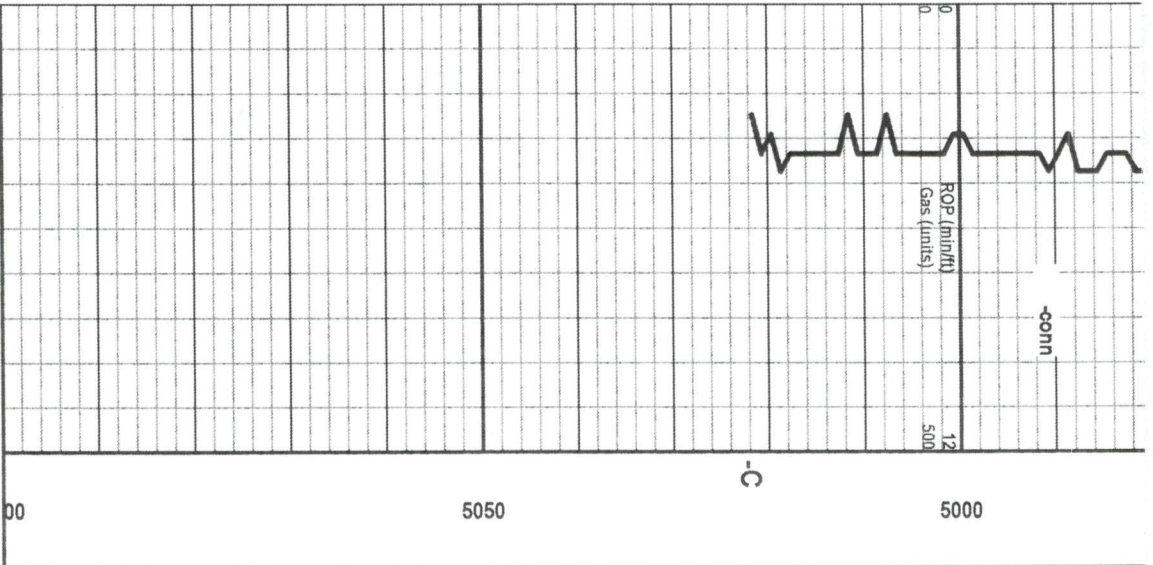
AA

Ls, Wh-Crm, F-Mxln, Tight, Foss, sl, Oolic, sl Cherty, sl

1st Open BOB in 10  
2nd Open BOB in 5  
IF: 28-349  
FF: 378-785  
ISIP: 1115  
FSIP: 1117

Vis: 58  
Wt: 9.2  
LCM # 6

7:00 am 10-26-14 Dri  
Vis: 54  
WT: 9.1  
LCM # 6



Chalky-Firm, No show

Ls, AA, sl Dolic No show

Ls, Wh-Crm, F-Mxl, Dolic, Scrosic, sl Chalky, Foss, No show

AA

RTD 5022 (1759)

00 5050 -C 5000