



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1176859
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 |
|-----------------------------------|-----------------|---|

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: _____

1176859

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| | |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |
| | | | | |

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

SAMPLE TOPS

McCoy Petroleum McCoy
Eck 'V' #2-22
C NW NE
660'FNL & 1980'FEL
Sec 22-32s-10w
KB: 1471'

| | Depth | Datum |
|-------------|-------|-------|
| Heebner | 3446 | -1975 |
| Lansing | 3640 | -2169 |
| Stark | 4093 | -2622 |
| Swope Pors. | 4106 | -2635 |
| Hushpuckney | 4120 | -2649 |
| BKC | 4148 | -2677 |
| Pawnee | 4275 | -2804 |
| Cherokee | 4319 | -2848 |
| Miss. | 4360 | -2889 |
| Miss. Pors. | 4375 | -2904 |
| RTD | 4398 | -2927 |

LOG TOPS

McCoy Petroleum McCoy
Eck 'V' #2-22
C NW NE
660'FNL & 1980'FEL
Sec 22-32s-10w
KB: 1471'

| | Depth | Datum |
|-------------|-------|-------|
| Heebner | 3440 | -1969 |
| Lansing | 3638 | -2167 |
| Stark | 4088 | -2617 |
| Swope Pors. | 4101 | -2630 |
| Hushpuckney | 4115 | -2644 |
| BKC | 4140 | -2669 |
| Pawnee | 4269 | -2898 |
| Cherokee | 4314 | -2843 |
| Miss. | 4352 | -2881 |
| Miss. Pors. | 4380 | -2909 |
| LTD | 4396 | -2925 |



**Natural Gas • Crude Oil
Exploration & Production**

McCOY PETROLEUM CORPORATION

Wichita, Kansas

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

Well Name: ECK 'V' #2-22
Location: Sec. 22 - T32S - R10W, Barber County, KS
License Number: API #: 15-007-24084
Spud Date: September 24, 2013
Surface Coordinates: C NW NE
660' FNL & 1980' FEL
Bottom Hole Coordinates:
Ground Elevation (ft): 1462' K.B. Elevation (ft): 1471'
Logged Interval (ft): 4250' To: 4398' Total Depth (ft): 4398' RTD 4396' LTD
Formation: Mississippian
Type of Drilling Fluid: Chemical/Polymer/Gel

Region: McGuire - Goemann

Drilling Completed: October 1, 2013

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

OPERATOR

Company: McCoy Petroleum Corporation, KCC License #5003
Address: 8080 E. Central Ave., Suite 300
Wichita, KS 67206

GEOLOGIST

Name: Evan Stone
Company: McCoy Petroleum Corporation
Address: 8080 E. Central Ave., Suite 300
Wichita, KS 67206

CASING & DEVIATION

Spud at 1145 pm on 09/24/13. Drilled 12-1/4" hole to 230'. Ran 5 joints of new 23# 8-5/8" surface casing, tallied 212.54', set at 226.54' KB. Welded straps on bottom 3 joints. Cemented with 180 sks 60/40 POZ ;2% Gel; 3% CC; 1/4# CF. Plug down at 6:45 am on 09/25/13. Cement did circulate. Basic Cementing Ticket #07148.

Deviation Surveys Taken: @ 4938' = 3/4 degree



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

McCoy Petro. Corp.
8080 E. Central Ste. 300
Wichita, KS 67208-2388
ATTN: Evan Stone

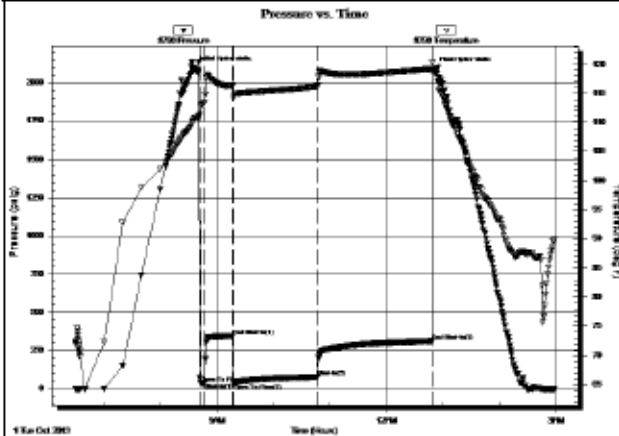
22/32s./10w. Barber Co.
Eck V 2-22
Job Ticket: 52457 **DST#: 1**
Test Start: 2013.10.01 @ 06:29:41

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 08:42:26
Time Test Ended: 14:57:58
Interval: **4362.00 ft (KB) To 4398.00 ft (KB) (TVD)**
Total Depth: 4398.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 48
Reference Elevations: 1471.00 ft (KB)
1462.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8790 Inside
Press@RunDepth: 77.72 psig @ 4383.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.10.01 End Date: 2013.10.01 Last Calib.: 2013.10.01
Start Time: 06:29:46 End Time: 14:57:55 Time On Btrt: 2013.10.01 @ 08:35:11
Time Off Btrt: 2013.10.01 @ 12:49:41

TEST COMMENT: IF: Strong blow . BOB @ 1min. No GTS.
IS: No blow
FF: Strong blow . BOB immed. GTS @ 9min. Guaged throughout.
FSt: No blow .



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2095.86 | 110.46 | Initial Hydro-static |
| 8 | 38.12 | 112.88 | Open To Flow (1) |
| 12 | 38.24 | 113.38 | Shut-In(1) |
| 42 | 345.41 | 116.26 | End Shut-In(1) |
| 43 | 34.37 | 114.28 | Open To Flow (2) |
| 132 | 77.72 | 116.22 | Shut-In(2) |
| 253 | 313.44 | 119.18 | End Shut-In(2) |
| 255 | 2090.54 | 118.68 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 178.00 | GCM 5%gas, 95%mud | 0.88 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/D) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 8.00 | 35.54 |
| Last Gas Rate | 0.25 | 13.00 | 43.47 |
| Max. Gas Rate | 0.25 | 15.00 | 48.64 |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

McCoy Petro. Corp.

22/32s./10w. Barber Co.

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Eck V 2-22

Job Ticket: 52457

DST#: 1

ATTN: Evan Stone

Test Start: 2013.10.01 @ 06:28:41

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 2 | 10 | 0.25 | 8.00 | 35.54 |
| 2 | 20 | 0.25 | 12.00 | 41.88 |
| 2 | 30 | 0.25 | 14.00 | 45.05 |
| 2 | 40 | 0.25 | 15.00 | 46.64 |
| 2 | 50 | 0.25 | 14.00 | 45.05 |
| 2 | 60 | 0.25 | 13.00 | 43.47 |
| 2 | 70 | 0.25 | 13.00 | 43.47 |
| 2 | 80 | 0.25 | 13.00 | 43.47 |
| 2 | 90 | 0.25 | 13.00 | 43.47 |

Serial #: 8790

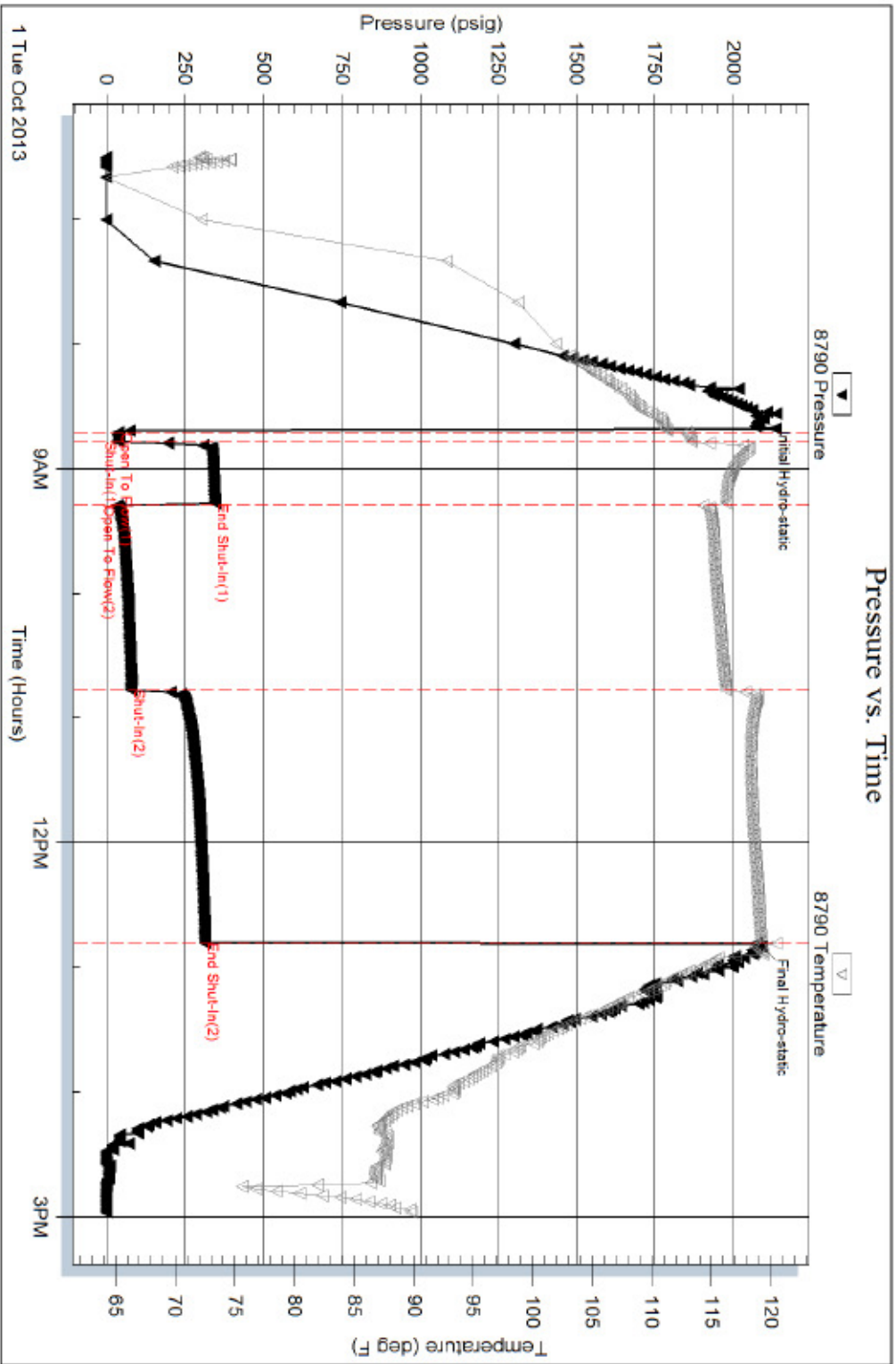
Inside

McCoy Petro. Corp.

Ex V 2-22









DST Test Number: 1

Pressure vs. Time







LEGEND



LITHOLOGY

-  Chert
-  Dolomite
-  Gypsum
-  Limestone
-  Cherty ls
-  Sandy ls
-  Salt
-  Shale
-  Shale green







-  Shale red
-  Carb shale
-  Siltstone
-  Sandstone

MINERAL






-  Calcite
-  Chert
-  Glauconite
-  Pyrite

-  Sand
-  Silt

STRINGER

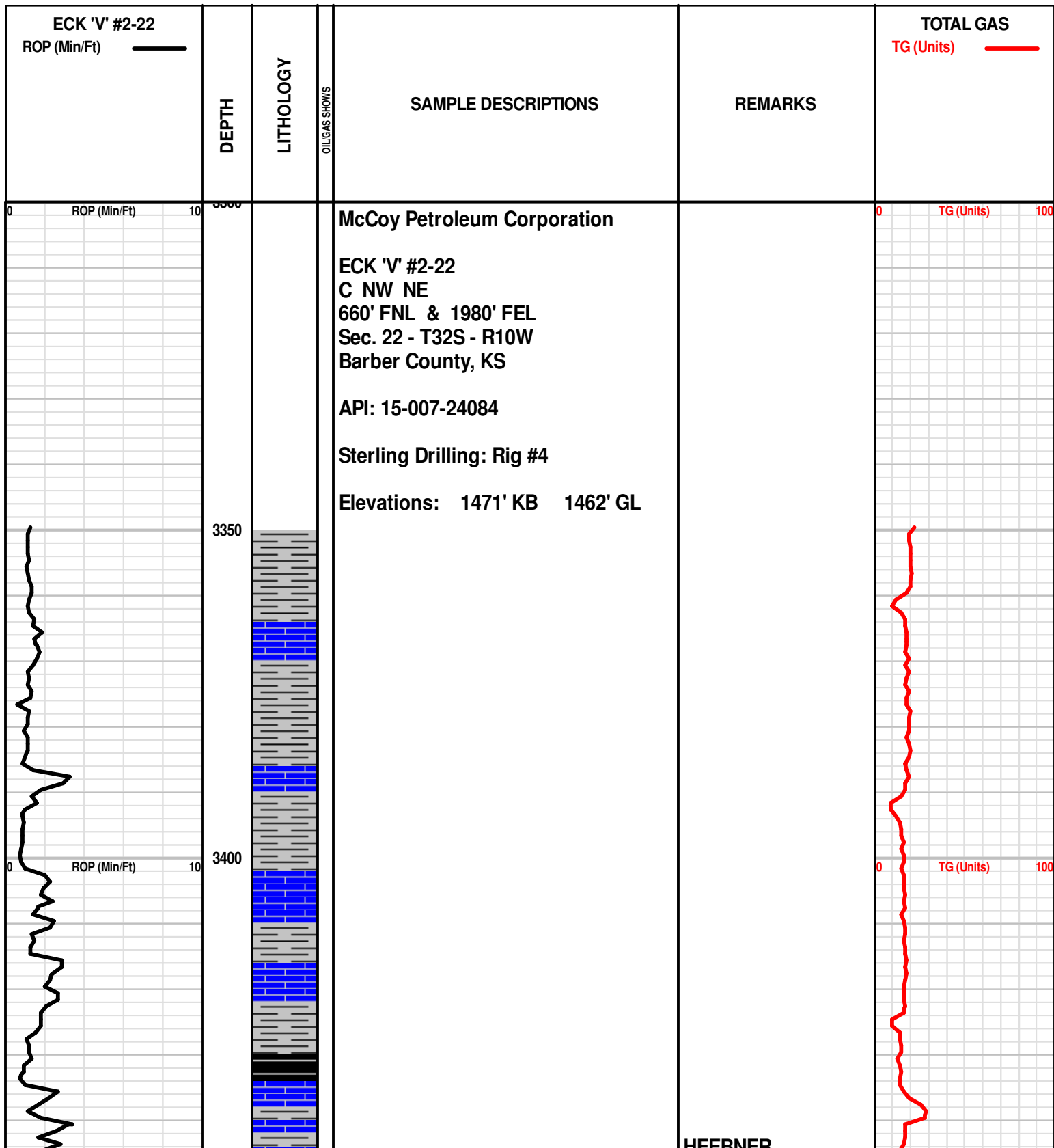
-  Dolomite
-  Gypsum
-  Limestone
-  Shale
-  Siltstone
-  Sandstone

OIL/GAS SHOW

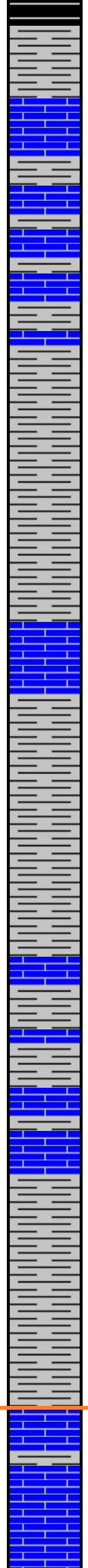
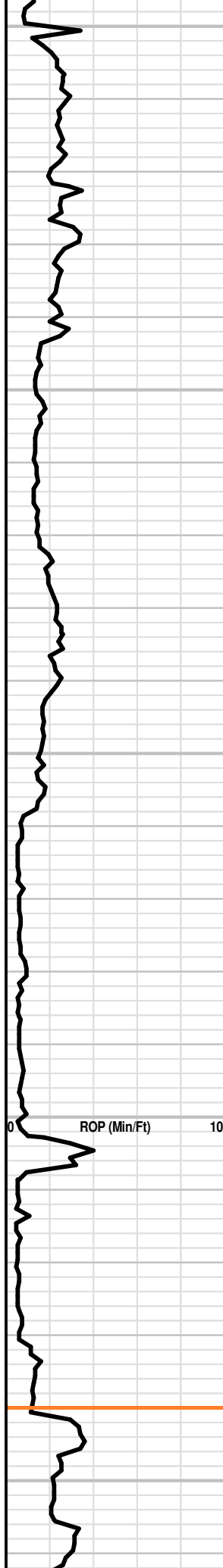
-  Gas show
-  Good
-  Fair
-  Poor
-  Dead

INTERVAL

-  Porosity

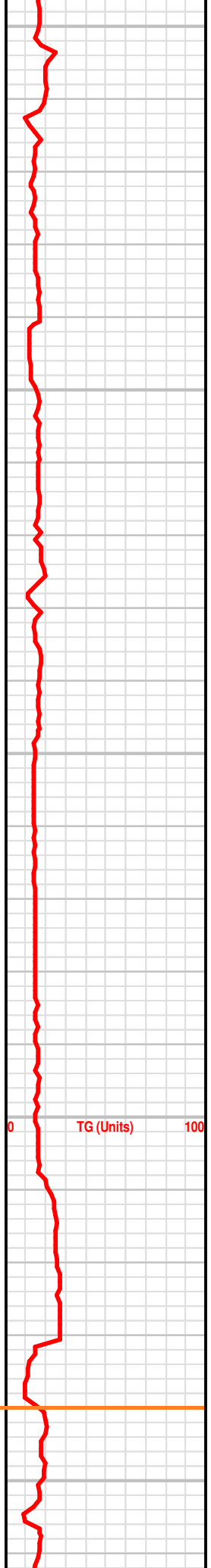


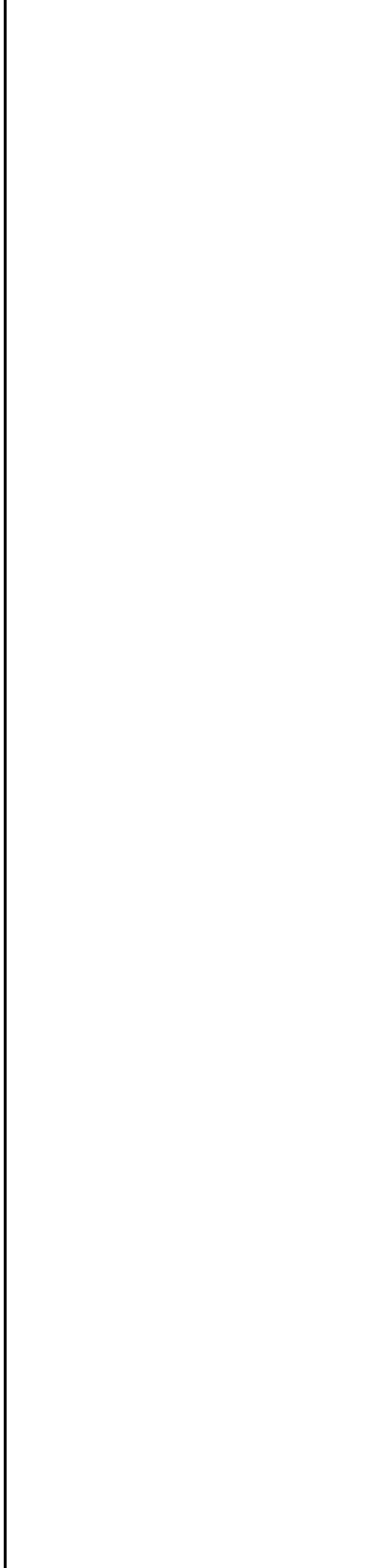
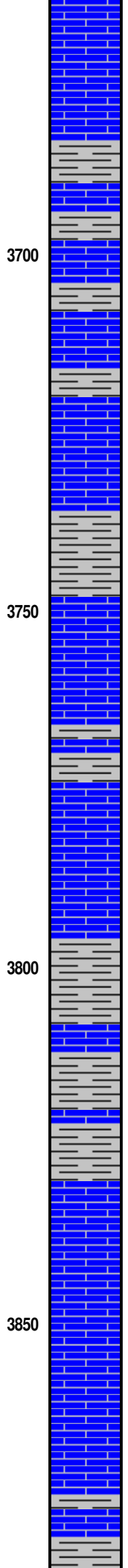
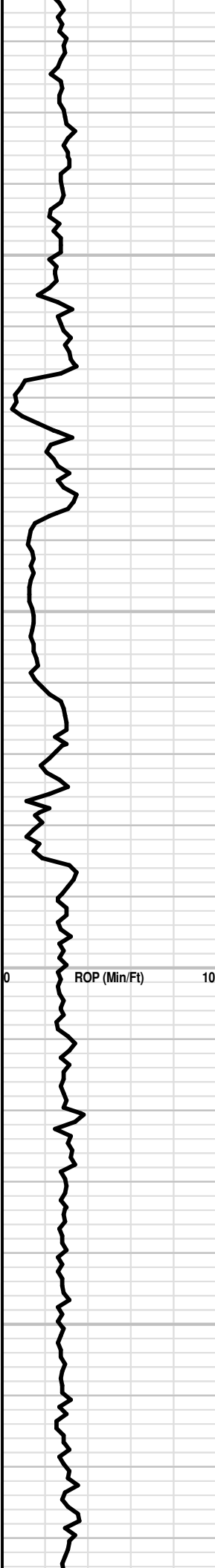
3450
3500
3550
3600
3650



3446' (-1975)

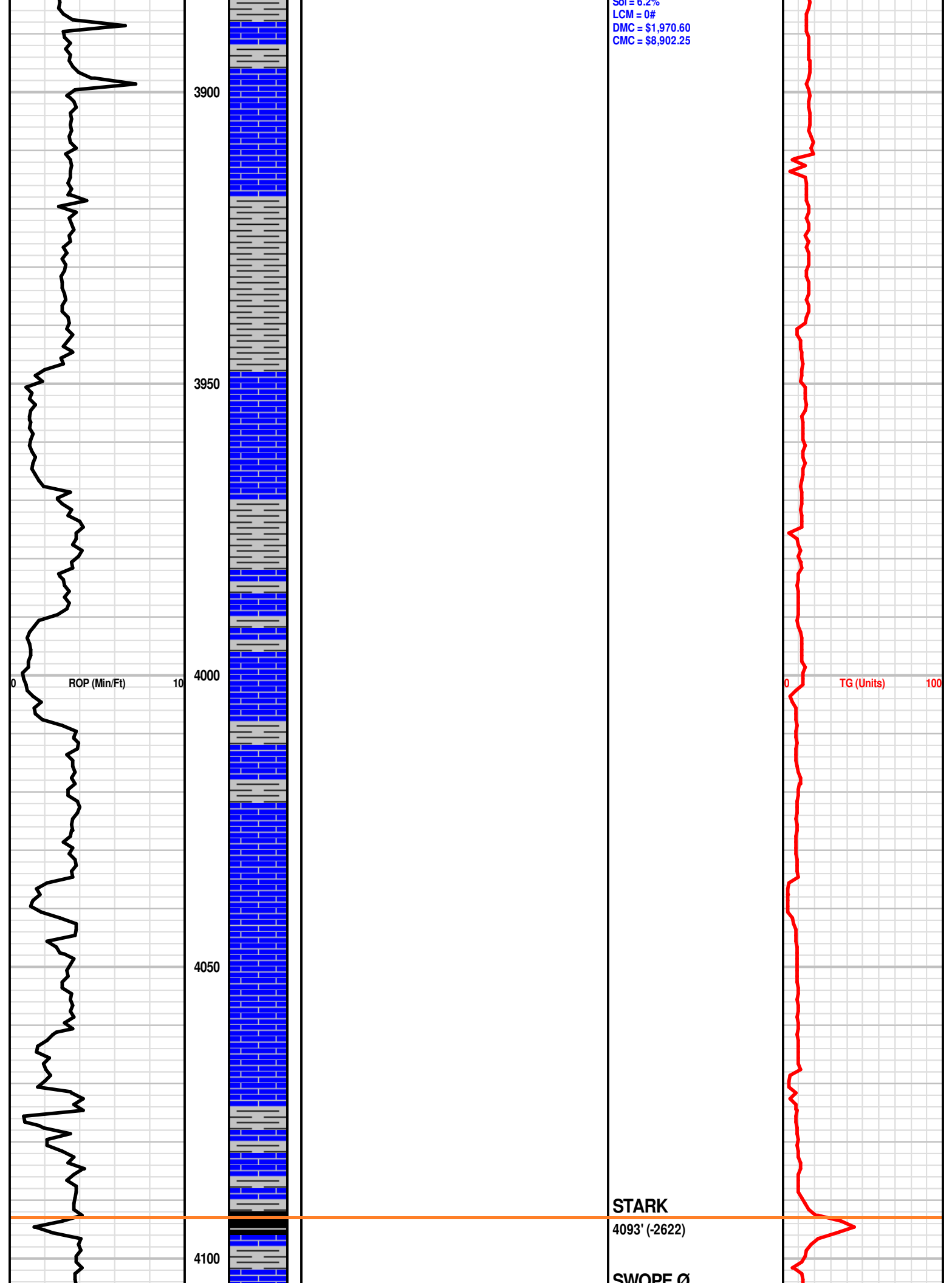
LANSING
3640' (-2169)





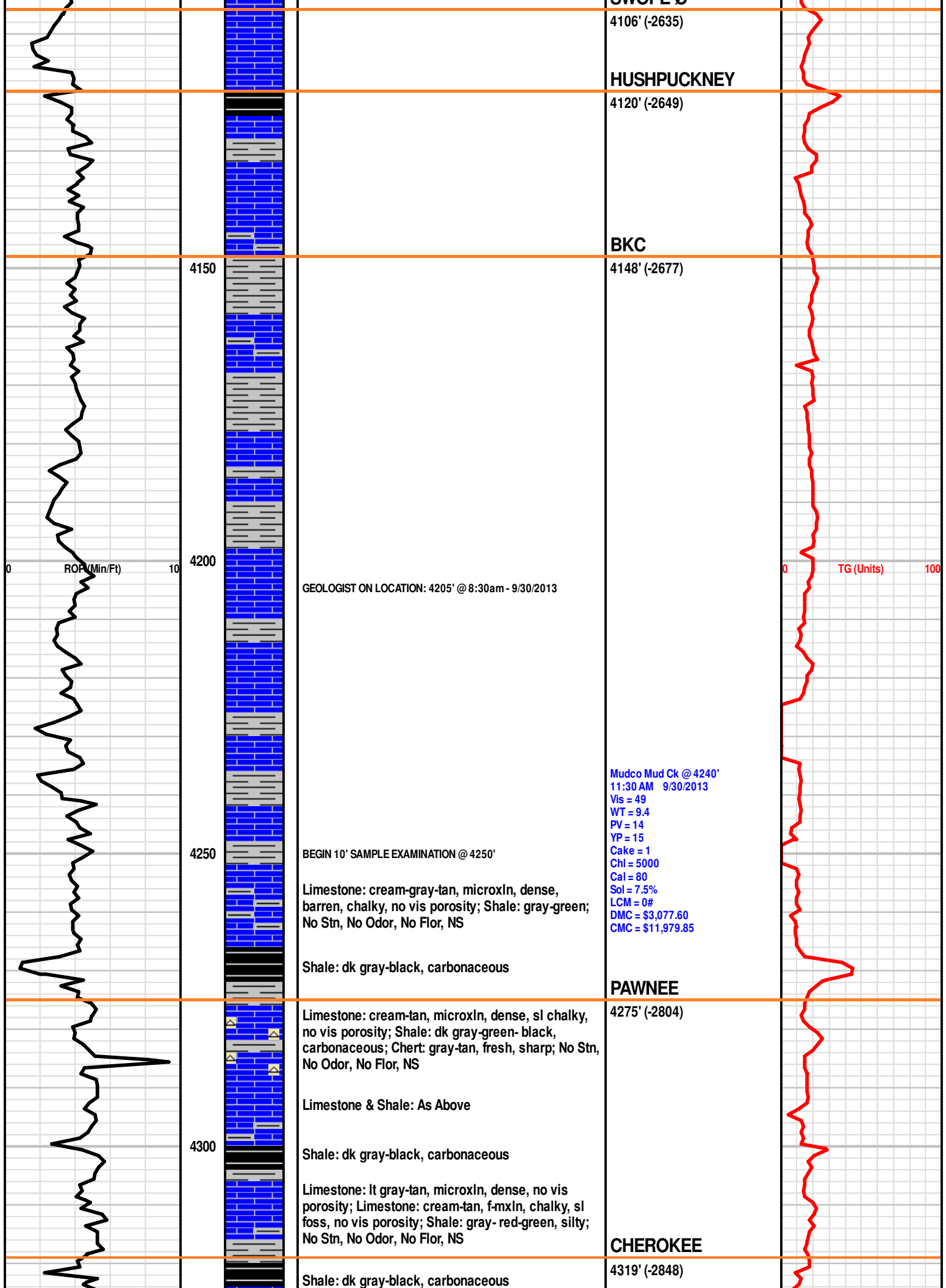
Mudco Mud Ck @ 3866'
1:00 PM 9/29/2013
Vis = 48
WT = 9.2
PV = 15
YP = 15
Cake = 1
ChI = 2500
Cal = 80
Sol = 0.0%

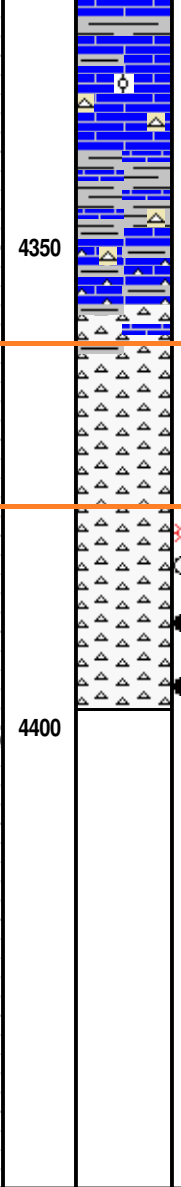
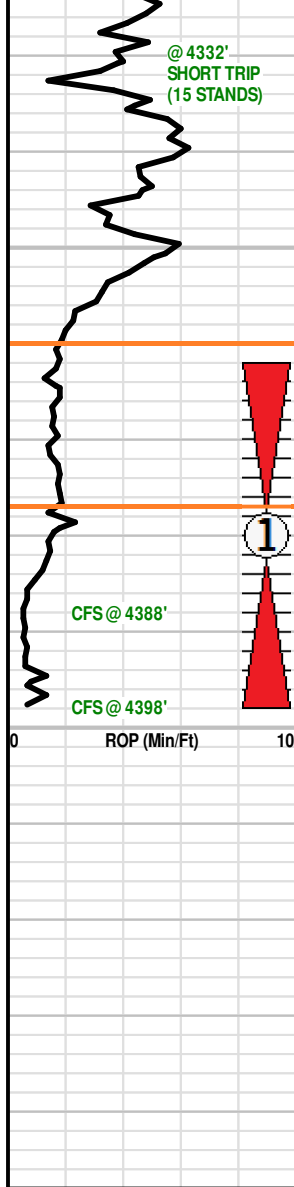
SOI = 6.2%
LCM = 0#
DMC = \$1,970.60
CMC = \$8,902.25



STARK
4093' (-2622)

SWOPE Ø





Limestone: cream-gray-brown, microxln, dense, trc oolitic, no vis porosity; Chert: lt brown-tan, sharp, fresh; Shale: gray-black, carbonaceous; No Stn, No Odor, No Flor, NS

Limestone: gray-cream-off white, fxln, dense, cherty, no vis porosity; Chert: white-opaque gray, sharp, fresh; Shale: gray-green; No Stn, No Odor, No Flor, NS

Chert: white-opaque gray-yellow-green-tan, sharp, fresh, some tripolitic, trc frac porosity; No Stn, No Odor, No Flor, NS; Limestone & Shale: As Above

Chert: white-lt gray-tan, sharp, fresh, some tripolitic, trc frac porosity; No Stn, SI Odor, Scatt dull yellow flor, NS

Chert: As Above, w/ Chert: white, weathered, poor pp-vuggy porosity, trc lt brn stn, sl odor, scatt dull yellow flor, NS

Chert: white-gray, tripolitic, pp & frac porosity, trc vuggy porosity, weathered lt brown stn, good odor, brt yellow flor, bleeding lt brn oil & gas

40" CFS (4388'): Chert: white-gray, mostly sharp, fresh, some weathered, pp & frac porosity, trc vuggy porosity, scatt lt brown stn, fair odor, brt yellow flor, gso&g

Chert: white, tripolitic, good pp-vuggy porosity, saturated lt brn stn, good odor, brt yellow flor, gso&g

60" CFS (4398'): Chert: white, tripolitic, good pp-vuggy porosity, saturated lt brn stn, good odor, dull-brt yellow flor, gso&g

RTD 4398' (-2927)
LTD 4396' (-2925)

GEOLOGIST OFF LOCATION @ 7:00pm - 10/1/2013

Mudco Mud Ck @ 4398'
12:00 AM 10/1/2013
Vis = 44
WT = 9.4+
PV = 14
YP = 15
Cake = 1
Chl = 6000
Cal = 80
Sol = 7.5%
LCM = 1#
DMC = \$341.05
CMC = \$12,320.90

MISSISSIPPIAN

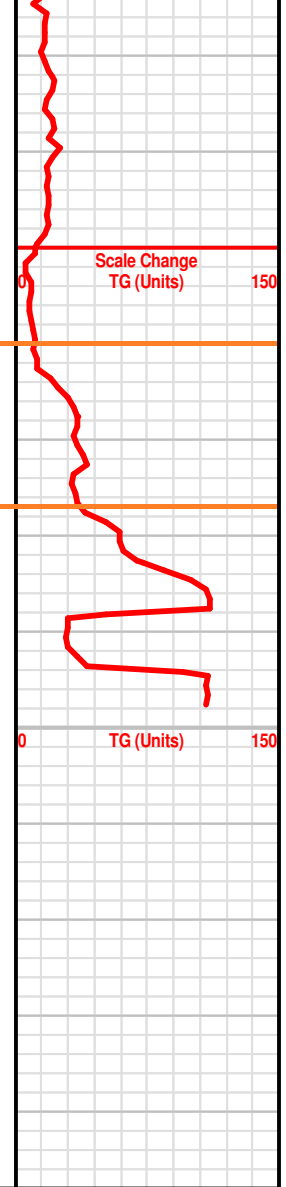
4360' (-2889)

MISSISSIPPIAN Ø

4377' (-2906)

DST #1

4362' - 4398'
IF = BOB 1 min
FF = BOB Immed. GTS 9 min
REC: 178' GCM (5% G, 95% M)
PRESSURES:
IH = 2096#
FH = 2090#
IF = 36-38#
FF = 34-78#
ISIP = 345#
FSIP = 313#
Temp = 119° F
GAS GAUGE FF:
10" = 35.54 Mcf
20" = 41.88 Mcf
30" = 45.05 Mcf
40" = 46.64 Mcf
50" = 45.05 Mcf
60" = 43.47 Mcf
70" = 43.47 Mcf
80" = 43.47 Mcf
90" = 43.47 Mcf





DRILL STEM TEST REPORT

Prepared For: **McCoy Petro. Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2366

ATTN: Evan Stone

Eck V #2-22

22-32s.-10w. Barber,KS

Start Date: 2013.10.01 @ 06:29:41

End Date: 2013.10.01 @ 14:57:56

Job Ticket #: 52457 DST #: 1

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

Printed: 2013.10.03 @ 11:01:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petro. Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2366
 ATTN: Evan Stone

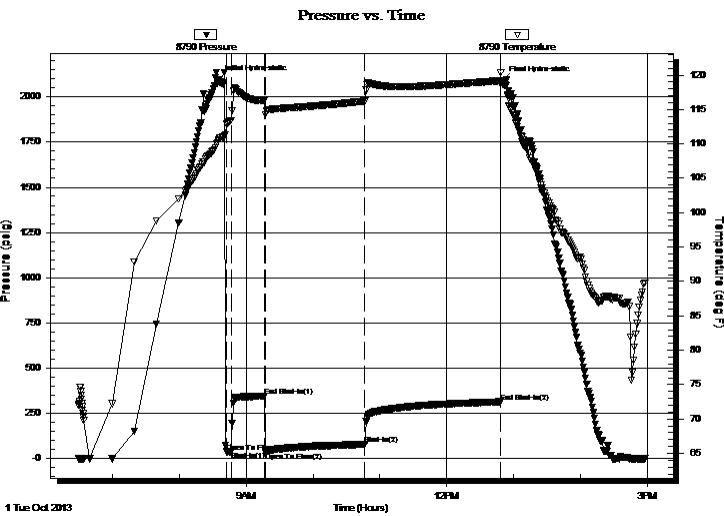
22-32s.-10w. Barber, KS
Eck V #2-22
 Job Ticket: 52457 **DST#: 1**
 Test Start: 2013.10.01 @ 06:29:41

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:42:26 Tester: Ryan Reynolds
 Time Test Ended: 14:57:56 Unit No: 48
 Interval: **4362.00 ft (KB) To 4398.00 ft (KB) (TVD)** Reference Elevations: 1471.00 ft (KB)
 Total Depth: 4398.00 ft (KB) (TVD) 1462.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8790 Inside
 Press @ Run Depth: 77.72 psig @ 4363.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.01 End Date: 2013.10.01 Last Calib.: 2013.10.01
 Start Time: 06:29:46 End Time: 14:57:55 Time On Btm: 2013.10.01 @ 08:35:11
 Time Off Btm: 2013.10.01 @ 12:49:41

TEST COMMENT: IF: Strong blow . BOB @ 1min. No GTS.
 IS: No blow
 FF: Strong blow . BOB immed. GTS @ 9min. Gauged throughout.
 FS: No blow .



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2095.66 | 110.46 | Initial Hydro-static |
| 8 | 36.12 | 112.88 | Open To Flow (1) |
| 12 | 38.24 | 113.38 | Shut-In(1) |
| 42 | 345.41 | 116.26 | End Shut-In(1) |
| 43 | 34.37 | 114.28 | Open To Flow (2) |
| 132 | 77.72 | 116.22 | Shut-In(2) |
| 253 | 313.44 | 119.18 | End Shut-In(2) |
| 255 | 2090.54 | 118.68 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 178.00 | GCM 5%gas, 95%mud | 0.88 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 8.00 | 35.54 |
| Last Gas Rate | 0.25 | 13.00 | 43.47 |
| Max. Gas Rate | 0.25 | 15.00 | 46.64 |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petro. Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2366
 ATTN: Evan Stone

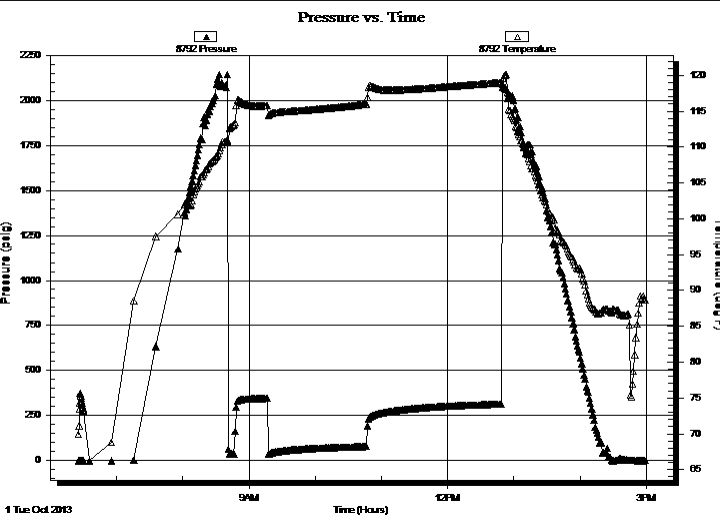
22-32s.-10w. Barber, KS
Eck V #2-22
 Job Ticket: 52457 **DST#: 1**
 Test Start: 2013.10.01 @ 06:29:41

GENERAL INFORMATION:

Formation: **Miss**
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 Time Tool Opened: 08:42:26
 Time Test Ended: 14:57:56
Interval: 4362.00 ft (KB) To 4398.00 ft (KB) (TVD)
 Total Depth: 4398.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1471.00 ft (KB)
 1462.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8792 Outside
 Press @ Run Depth: psig @ 4363.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.01 End Date: 2013.10.01 Last Calib.: 2013.10.01
 Start Time: 06:25:45 End Time: 14:58:40 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong blow . BOB @ 1min. No GTS.
 IS: No blow
 FF: Strong blow . BOB immed. GTS @ 9min. Gauged throughout.
 FS: No blow .



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| | | | |
| | | | |
| | | | |
| | | | |

| Recovery | | |
|-------------|-------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 178.00 | GCM 5%gas, 95%mud | 0.88 |
| | | |
| | | |
| | | |
| | | |

| Gas Rates | | | |
|----------------|----------------|-----------------|------------------|
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
| First Gas Rate | 0.25 | 8.00 | 35.54 |
| Last Gas Rate | 0.25 | 13.00 | 43.47 |
| Max. Gas Rate | 0.25 | 15.00 | 46.64 |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petro. Corp.

22-32s.-10w. Barber,KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Eck V #2-22

Job Ticket: 52457

DST#: 1

ATTN: Evan Stone

Test Start: 2013.10.01 @ 06:29:41

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4143.00 ft | Diameter: 3.80 inches | Volume: 58.12 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 207.00 ft | Diameter: 2.25 inches | Volume: 1.02 bbl | Weight to Pull Loose: 95000.00 lb |
| | | | <u>Total Volume: 59.14 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 14.00 ft | | | String Weight: Initial 86000.00 lb |
| Depth to Top Packer: | 4362.00 ft | | | Final 86500.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 36.00 ft | | | |
| Tool Length: | 62.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4341.00 | |
| Hydraulic tool | 5.00 | | | 4346.00 | |
| Jars | 5.00 | | | 4351.00 | |
| Safety Joint | 2.00 | | | 4353.00 | |
| Packer | 5.00 | | | 4358.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4362.00 | |
| Stubb | 1.00 | | | 4363.00 | |
| Recorder | 0.00 | 8790 | Inside | 4363.00 | |
| Recorder | 0.00 | 8792 | Outside | 4363.00 | |
| Perforations | 32.00 | | | 4395.00 | |
| Bullnose | 3.00 | | | 4398.00 | 36.00 Bottom Packers & Anchor |

Total Tool Length: 62.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petro. Corp.

22-32s.-10w. Barber, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Eck V #2-22

Job Ticket: 52457

DST#: 1

ATTN: Evan Stone

Test Start: 2013.10.01 @ 06:29:41

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:

5000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------------|----------------|
| 178.00 | GCM 5%gas, 95%mud | 0.875 |

Total Length: 178.00 ft

Total Volume: 0.875 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

McCoy Petro. Corp.

22-32s.-10w. Barber, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Eck V #2-22

Job Ticket: 52457

DST#: 1

ATTN: Evan Stone

Test Start: 2013.10.01 @ 06:29:41

Gas Rates Information

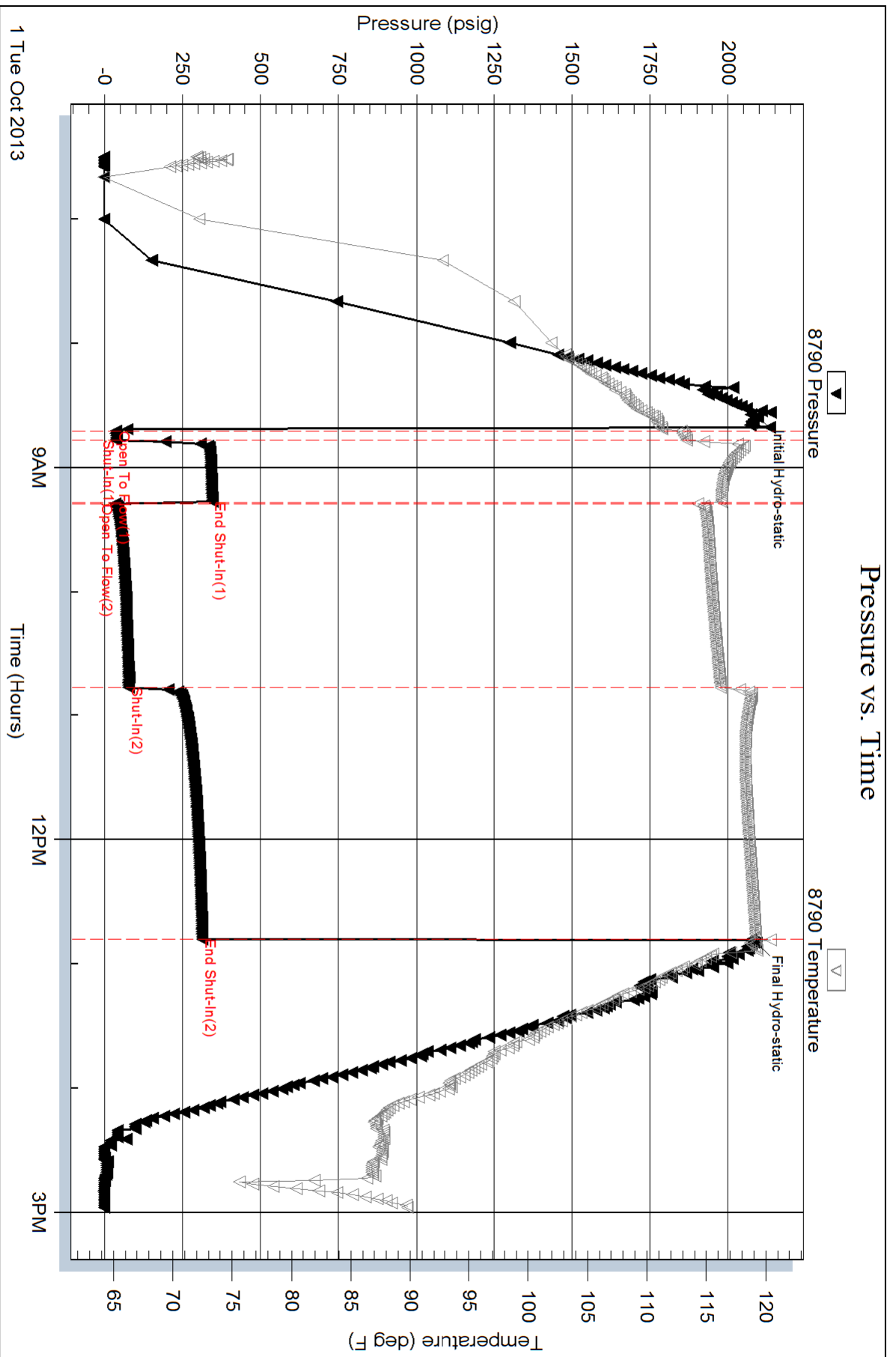
Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 2 | 10 | 0.25 | 8.00 | 35.54 |
| 2 | 10 | 0.25 | 8.00 | 35.54 |
| 2 | 20 | 0.25 | 12.00 | 41.88 |
| 2 | 30 | 0.25 | 14.00 | 45.05 |
| 2 | 40 | 0.25 | 15.00 | 46.64 |
| 2 | 50 | 0.25 | 14.00 | 45.05 |
| 2 | 60 | 0.25 | 13.00 | 43.47 |
| 2 | 70 | 0.25 | 13.00 | 43.47 |
| 2 | 80 | 0.25 | 13.00 | 43.47 |

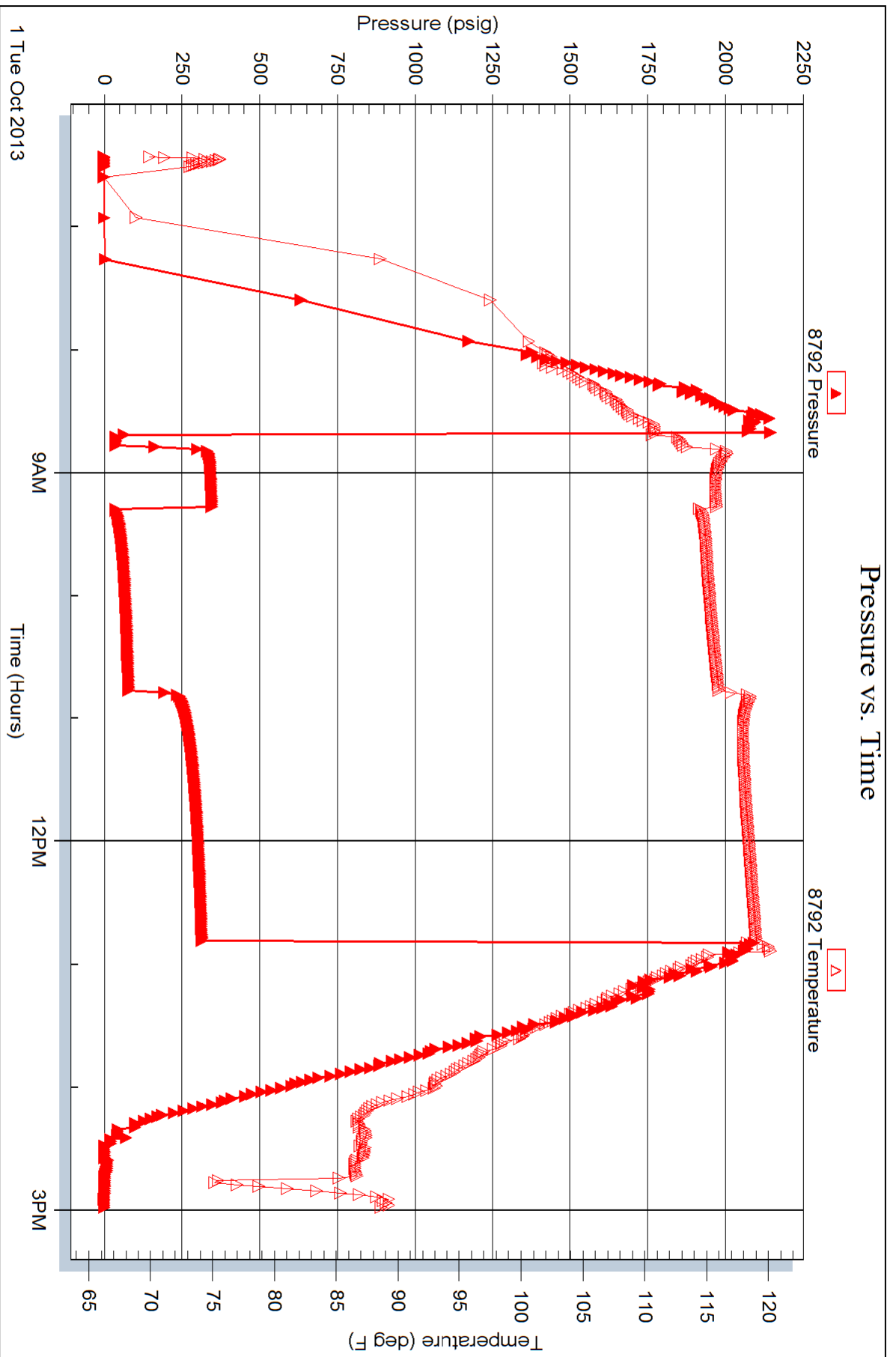


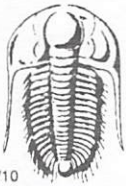
Serial #: 8792

Outside McCoy Petro. Corp.

EcK V #2-22

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52457

Well Name & No. Eck "V" 2-22 Test No. 1 Date 10-1-13
 Company McCoy Petro. Corp. Elevation 1471 KB 1462 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2366
 Co. Rep / Geo. Evan Stone Rig Sterling 4
 Location: Sec. 22 Twp. 32s. Rge. 10w. Co. Barber State KS

Interval Tested 4362 - 4398 Zone Tested Miss.
 Anchor Length 36 Drill Pipe Run 4143 Mud Wt. 9.4
 Top Packer Depth 4357 Drill Collars Run 207 Vis 49
 Bottom Packer Depth 4362 Wt. Pipe Run Ø WL 9.6
 Total Depth 4398 Chlorides 5000 ppm System LCM Ø

Blow Description IF: Strong blow. BOB @ 1 min. JST: No blow
FF: Strong blow. BOB immed. GTS @ 9 min. Gauged throughout
FST: No blow.

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|----------|------|--------|-----------|
| <u>178</u> | <u>6LM</u> | <u>5</u> | | | <u>95</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 178 BHT 119 Gravity N/C API RW N/C @ N/C °F Chlorides 5000 ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>2096</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>0545</u> |
| (B) First Initial Flow <u>36</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>0630</u> |
| (C) First Final Flow <u>38</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>0842</u> |
| (D) Initial Shut-In <u>345</u> | <input type="checkbox"/> Circ Sub | T-Pulled <u>1248</u> |
| (E) Second Initial Flow <u>34</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>1458</u> |
| (F) Second Final Flow <u>78</u> | <input checked="" type="checkbox"/> Mileage <u>100</u> 310 | Comments |
| (G) Final Shut-In <u>313</u> | <input type="checkbox"/> Sampler | <u>loaded tools 23:30 10/1</u> |
| (H) Final Hydrostatic <u>2091</u> | <input type="checkbox"/> Straddle | <input type="checkbox"/> Ruined Shale Packer |
| Initial Open <u>5</u> | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Packer |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Extra Copies |
| Final Flow <u>90</u> | <input type="checkbox"/> Extra Recorder | Sub Total <u>0</u> |
| Final Shut-In <u>120</u> | <input type="checkbox"/> Day Standby | Total <u>1885</u> |
| | <input type="checkbox"/> Accessibility | MP/DST Disc't |
| | Sub Total <u>1885</u> | |

Approved By [Signature] Our Representative Ryan Reynolds

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.



energy services, L.P.

TREATMENT REPORT

| | | |
|-----------------------------------|----------------------------|-----------------------------------|
| Customer <i>McCoy PET. CORP</i> | Lease No. | Date <i>9-25-2013</i> |
| Lease <i>ECK V</i> | Well # <i>2-22</i> | |
| Field Order # <i>01148</i> | Station <i>PRATT, Ks.</i> | Casing <i>8 5/8"</i> |
| Type Job <i>CNW - 8 5/8" S.P.</i> | Depth | County <i>BARBER</i> |
| | Formation <i>TD - 230'</i> | State <i>Ks.</i> |
| | | Legal Description <i>22-32-10</i> |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|--------------------------------|--------------|------------------|--------------|--------------------------------|---------------------|------------------|------------------|--|
| Casing Size <i>8 5/8" x 24</i> | Tubing Size | Shots/Ft | <i>CMT -</i> | Acid <i>180 SKS. 60/40 POZ</i> | RATE | PRESS | ISIP | |
| Depth <i>226.54</i> | Depth | From | To | Pre Pad <i>1.21 CU FT</i> | Max | | 5 Min. | |
| Volume <i>14.4 BBL</i> | Volume | From | To | Pad | Min <i>SJ = 20'</i> | | 10 Min. | |
| Max Press <i>500</i> | Max Press | From | To | Frac | Avg | | 15 Min. | |
| Well Connection <i>1 1/2"</i> | Annulus Vol. | From | To | | HHP Used | | Annulus Pressure | |
| Plug Depth <i>2010'</i> | Packer Depth | From | To | Flush <i>13 BBL</i> | Gas Volume | | Total Load | |

| | | |
|---|-----------------------------------|--------------------------|
| Customer Representative <i>D. OLLER</i> | Station Manager <i>K. GORDLEY</i> | Treater <i>K. LESLEY</i> |
| Service Units <i>37586</i> | <i>19889</i> | <i>19843</i> |
| Driver Names <i>LESLEY MARQUEZ</i> | <i>GRAVES</i> | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|---------|-----------------|-----------------|--------------|------|--------------------------------------|
| 5:00 AM | | | | | ON LOCATION - SAFETY MEETING |
| 5:05 AM | | | | | RUN 5 JTS. 8 5/8" x 24" CSG. |
| 6:00 AM | | | | | CSG. ON BOTTOM |
| 6:10 AM | | | | | HOOK UP TO CSG. / BREAK CIRC. W/ RIG |
| 6:25 AM | 100 | | 5 | 6 | H ₂ O AHEAD |
| 6:29 AM | 50 | | 39 | 6 | MIX 180 SKS. 60/40 POZ @ 14.8 PPG |
| 6:35 AM | | | | | DROP WOODEN PLUG |
| 6:41 AM | 0 | | 0 | 6 | START DISPLACEMENT |
| 6:43 AM | 100 | | 10 | 3 | SLOW RATE |
| 6:45 AM | 100 | | 13' | 2 | PLUG @ DESIRED DEPTH |
| | | | | | CIRC. THRU JOB |
| | | | | | CIRC. 10 BBL TO PIT |
| | | | | | JOB COMPLETE, |
| | | | | | THANKS - |
| | | | | | KEVIN LESLEY |

Taylor Printing, Inc. 620-672-3656

| | | |
|-----------------------------------|--------------------------|---------------------------------|
| Customer McCoy Petroleum Corp. | Lease No. | Date 10-2-13 |
| Lease Eck V | Well # 2-22 | |
| Field Order # 9136 | Station Pratt, Kansas | Casing 3 1/2 15.5 Lb. |
| Type Job C.N.W. - Longstring | Depth 4,394 Feet | County Barber |
| | Formation | State Kansas |
| | | Legal Description 22-325-10W |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------------------------|-------------------------|------------------|--------------|--------------------------------|--|------------------|--------------------|------------------|
| Casing Size 3 1/2 15.5 Lb/ft. | Tubing Size 5 Lb/ft. | Shots/Ft 125 | sacks 125 | Acid AA2 with .88 | Fluid RATE Loss, .28 | PRESS. 28 | ISIP Foamer, 19 | Gas Blt |
| Depth 4,394 Feet | Depth | From 1085 | To 25 | Pre Pad 1 lb/st. cellflake, | Max 5 lb/st. Gilsonite | | | 5 Min. |
| Volume 104.6 Bbl. | Volume | From | To | Pad | Min | | | 10 Min. |
| Max Press 1500 P.S.I. | Max Press | From 50 | To 60/40 | Frac Poz to Plug Rat | Avg (30 sts) and mouse (20 sts) holes | | | 15 Min. |
| Well Connection Plug container | Annulus Vol. | From | To | | HHP Used | | | Annulus Pressure |
| Plug Depth 4,374 Feet | Packer Depth | From | To | Flush 104 Bbl. 28 P.C.L. | Gas Volume | | | Total Load |

| | | |
|---------------------------------------|----------------------------------|--------------------------------|
| Customer Representative Dave Oller | Station Manager Kevin Gordley | Treater Clarence R. Messich |
| Service Units 37,216 | 77,686 | 19,905 |
| Driver Names Messich | Mc Graw | Phye |
| | | |
| | | |

| Time A.M. | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-----------|-----------------|-----------------|--------------|------|---|
| 2:00 | | | | | Trucks on location and hold safety meeting. |
| 6:00 | | | | | Sterling Drilling start to run Auto Fill Float Shoe, Shoe Joint with latch down Baffle screwed into collar and a total of Joints new 15.5 Lb/ft. 5 1/2" csg. A Turbolizer was installed on collars # 1, 3, and # 5. |
| 8:00 | | | | | Casing in well. Circulate and Rotate for 1 Hour. |
| 9:05 | | 2,000 | | | Shut in well. Pressure Test. Open well. |
| 9:07 | 300 | | | 6 | Start Fresh water Pre-Flush. |
| | | | 20 | 6 | Start Mud Flush. |
| | | | 32 | 5 | Start Fresh water Spacer. |
| 9:15 | 300 | | 37 | 5 | Start mixing 125 sacks AA2 Blend cement. |
| | -0- | | 68 | | Stop pumping. Shut in well. Wash pump and lines. Release latch Down Plug. Open Well. |
| 9:25 | 125 | | | 6.5 | Start 28 tccl Displacement. |
| | | | 85 | 5 | Start to lift cement. |
| 9:43 | 500 | | 104 | | Plug down. |
| | 1,500 | | | | Pressure up. |
| | | | | | Release pressure. Float Shoe held. |
| | -0- | | 7-5 | 3 | Plug Rat and Mouse holes. |
| | | | | | Wash up pump truck. |
| 10:45 | | | | | Job Complete |
| | | | | | Thank You. |
| | | | | | Clarence, Mitche Dale |