

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	McCoy Petroleum Corporation
Well Name	LONG RANCH "A" 1-8
Doc ID	1457058

All Electric Logs Run

Array Induction
Neutron/Density
Microresistivity
Caliper



**SAMPLE TOPS:**

McCoy Petroleum Corp.  
 Long Ranch 'A' #1-8  
 API#: 15-033-21795-0000  
 NE NE SW NE  
 1485'FNL & 1485'FEL  
 Sec 8-32s-19w  
 KB: 2072'

	Depth	Datum
Stone Corral	1038	+1034
Stotler	3543	-1471
Heebner	4290	-2218
Lansing	4492	-2420
Lansing H	4692	-2620
Marmaton B	5007	-2935
Mississippian	5182	-3110
Viola D	5942	-3870
Simpson Shale		
Arbuckle		
RTD	6070	-3998

**LOG TOPS:**

McCoy Petroleum Corp.  
 Long Ranch 'A' #1-8  
 API#: 15-033-21795-0000  
 NE NE SW NE  
 1485'FNL & 1485'FEL  
 Sec 8-32s-19w  
 KB: 2072'

	Depth	Datum
Stone Corral	1038	+1034
Stotler	3543	-1471
Heebner	4291	-2219
Lansing	4494	-2422
Lansing H	4694	-2622
Marmaton B	4993	-2921
Erosional Miss	5191	-3119
Mississippian	5236	-3164
Viola Top	5940	-3868
Viola D		Absent
Viola C	5940	-3868
Viola B	5949	-3877
Viola A	5975	-3903
Simpson Dolo	6154	-4082
Arbuckle		Not Penetrated
LTD	6069	-3997



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

9342 E Central  
Wichita, KS 67206

ATTN: Dave Williams

### **Long Ranch "A" 1-8**

#### **8-32S-19W Comanche,KS**

Start Date: 2019.03.27 @ 09:31:00

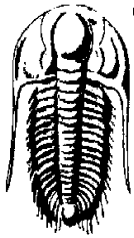
End Date: 2019.03.27 @ 17:59:02

Job Ticket #: 64957                      DST #: 1

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

Printed: 2019.04.02 @ 13:20:22





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp

**8-32S-19W Comanche, KS**

9342 E Central  
Wichita, KS 67206

**Long Ranch "A" 1-8**

ATTN: Dave Williams

Job Ticket: 64957

**DST#: 1**

Test Start: 2019.03.27 @ 09:31:00

## GENERAL INFORMATION:

Formation: **Pawnee-Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:23:02

Time Test Ended: 17:59:02

Interval: **5051.00 ft (KB) To 5141.00 ft (KB) (TVD)**

Total Depth: 5141.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Reference Elevations: 2072.00 ft (KB)

2061.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6751** Outside

Press@RunDepth: psig @ 5052.00 ft (KB)

Start Date: 2019.03.27

End Date: 2019.03.27

Start Time: 09:31:01

End Time: 17:59:02

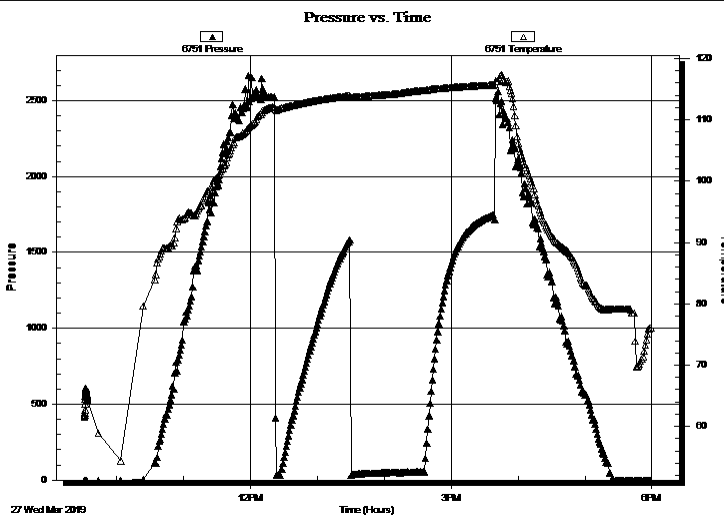
Capacity: psig

Last Calib.: 2019.03.27

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes  
 IS: No Blow Back  
 FF: Strong Blow , BOB in 30 seconds, Built to 167"  
 FS: No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3364 GIP	0.00
65.00	GCM 5%G 95%M	0.32

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp

**8-32S-19W Comanche,KS**

9342 E Central  
Wichita, KS 67206

**Long Ranch "A" 1-8**

Job Ticket: 64957

**DST#: 1**

ATTN: Dave Williams

Test Start: 2019.03.27 @ 09:31:00

## Tool Information

Drill Pipe:	Length: 4875.00 ft	Diameter: 3.80 inches	Volume: 68.38 bbl	Tool Weight: 2100.00 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: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 69.13 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5051.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	119.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5027.00	
Hydraulic tool	5.00			5032.00	
Jars	5.00			5037.00	
EM Tool	3.00			5040.00	
Safety Joint	2.00			5042.00	
Packer	5.00			5047.00	29.00 Bottom Of Top Packer
Packer	4.00			5051.00	
Stubb	1.00			5052.00	
Recorder	0.00	8672	Inside	5052.00	
Recorder	0.00	6751	Outside	5052.00	
Perforations	5.00			5057.00	
Change Over Sub	1.00			5058.00	
Drill Pipe	64.00			5122.00	
Change Over Sub	1.00			5123.00	
Perforations	15.00			5138.00	
Bullnose	3.00			5141.00	90.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>119.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petroleum Corp

**8-32S-19W Comanche,KS**

9342 E Central  
Wichita, KS 67206

**Long Ranch "A" 1-8**

Job Ticket: 64957

**DST#: 1**

ATTN: Dave Williams

Test Start: 2019.03.27 @ 09:31:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3364 GIP	0.000
65.00	GCM 5%G 95%M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

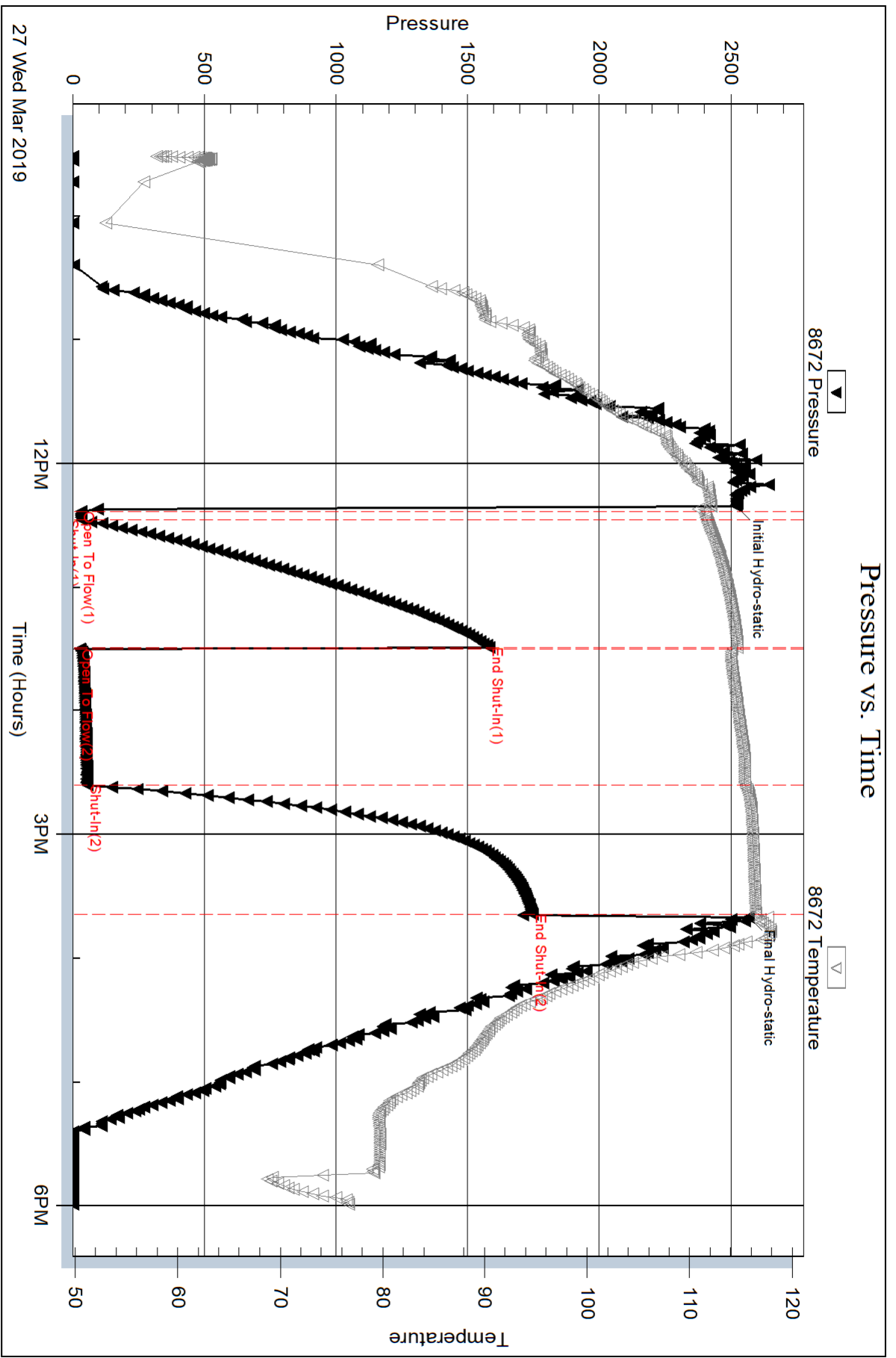
Serial #: 8672

Inside

McCoy Petroleum Corp

Long Ranch "A" 1-8

DST Test Number: 1

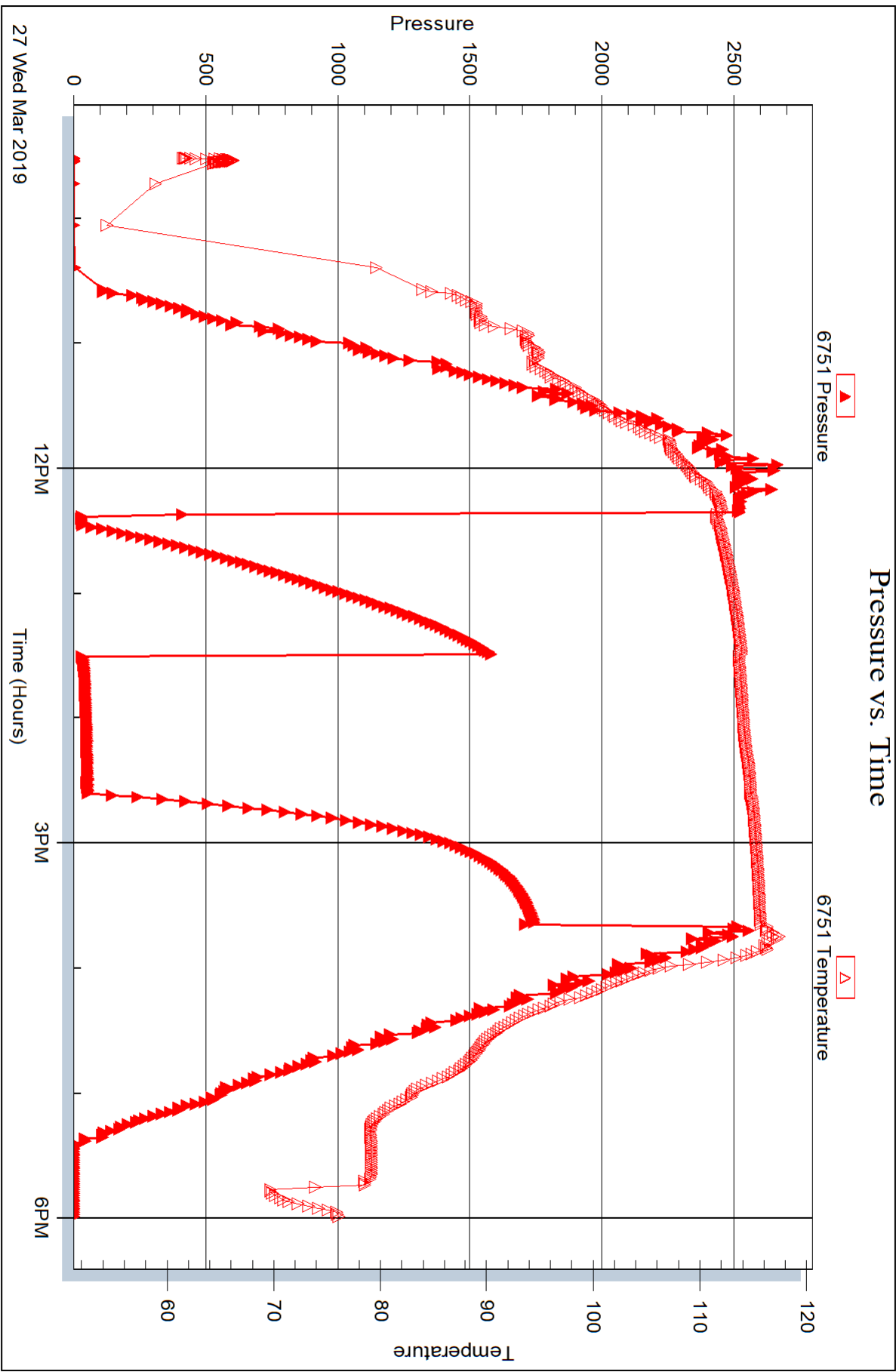


Serial #: 6751

Outside McCoy Petroleum Corp

Long Ranch "A" 1-8

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

9342 E Central  
Wichita, KS 67206

ATTN: Dave Williams

### **Long Ranch "A" 1-8**

#### **8-32S-19W Comanche,KS**

Start Date: 2019.03.28 @ 04:28:00

End Date: 2019.03.28 @ 12:32:02

Job Ticket #: 64958                      DST #: 2

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

Printed: 2019.04.02 @ 13:18:57



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp  
9342 E Central  
Wichita, KS 67206  
ATTN: Dave Williams

**8-32S-19W Comanche,KS**

**Long Ranch "A" 1-8**

Job Ticket: 64958 **DST#: 2**  
Test Start: 2019.03.28 @ 04:28:00

## GENERAL INFORMATION:

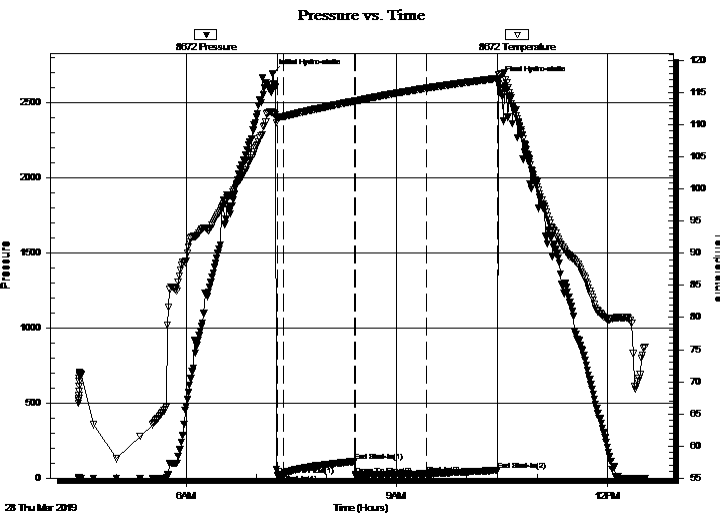
Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:18:02  
Time Test Ended: 12:32:02  
Interval: **5189.00 ft (KB) To 5219.00 ft (KB) (TVD)**  
Total Depth: 5219.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 2072.00 ft (KB)  
2061.00 ft (CF)  
KB to GR/CF: 11.00 ft

## Serial #: 8672

Inside

Press@RunDepth: 26.75 psig @ 5190.00 ft (KB) Capacity: psig  
Start Date: 2019.03.28 End Date: 2019.03.28 Last Calib.: 2019.03.28  
Start Time: 04:28:01 End Time: 12:32:02 Time On Btm: 2019.03.28 @ 07:14:02  
Time Off Btm: 2019.03.28 @ 10:26:47

TEST COMMENT: IF: Weak Blow , Built to 3"  
IS: No Blow Back  
FF: Weak Blow , Built to 2 1/2", Died off to 2"  
FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2697.27	111.83	Initial Hydro-static
5	20.47	111.20	Open To Flow (1)
9	26.78	111.26	Shut-In(1)
70	110.37	113.67	End Shut-In(1)
71	19.63	113.68	Open To Flow (2)
132	26.75	115.68	Shut-In(2)
192	51.98	117.23	End Shut-In(2)
193	2647.16	117.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp

**8-32S-19W Comanche,KS**

9342 E Central  
Wichita, KS 67206

**Long Ranch "A" 1-8**

Job Ticket: 64958

**DST#: 2**

ATTN: Dave Williams

Test Start: 2019.03.28 @ 04:28:00

## Tool Information

Drill Pipe:	Length: 5034.00 ft	Diameter: 3.80 inches	Volume: 70.61 bbl	Tool Weight: 2100.00 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: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 71.36 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5189.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5165.00	
Hydraulic tool	5.00			5170.00	
Jars	5.00			5175.00	
EM Tool	3.00			5178.00	
Safety Joint	2.00			5180.00	
Packer	5.00			5185.00	29.00 Bottom Of Top Packer
Packer	4.00			5189.00	
Stubb	1.00			5190.00	
Recorder	0.00	8672	Inside	5190.00	
Recorder	0.00	6751	Outside	5190.00	
Perforations	26.00			5216.00	
Bullnose	3.00			5219.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petroleum Corp

**8-32S-19W Comanche,KS**

9342 E Central  
Wichita, KS 67206

**Long Ranch "A" 1-8**

Job Ticket: 64958

**DST#: 2**

ATTN: Dave Williams

Test Start: 2019.03.28 @ 04:28:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

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 bbl
10.00	Mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

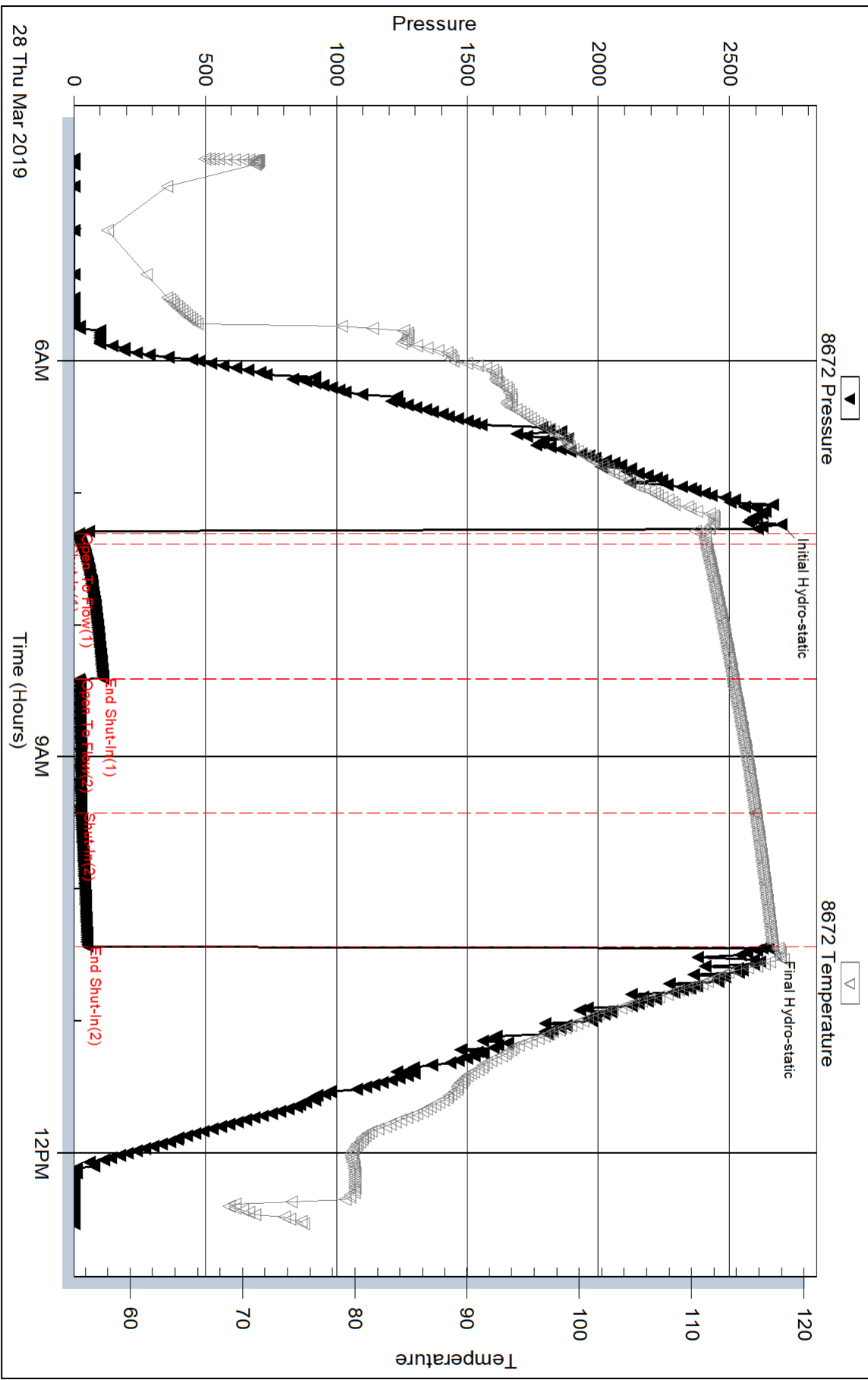
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



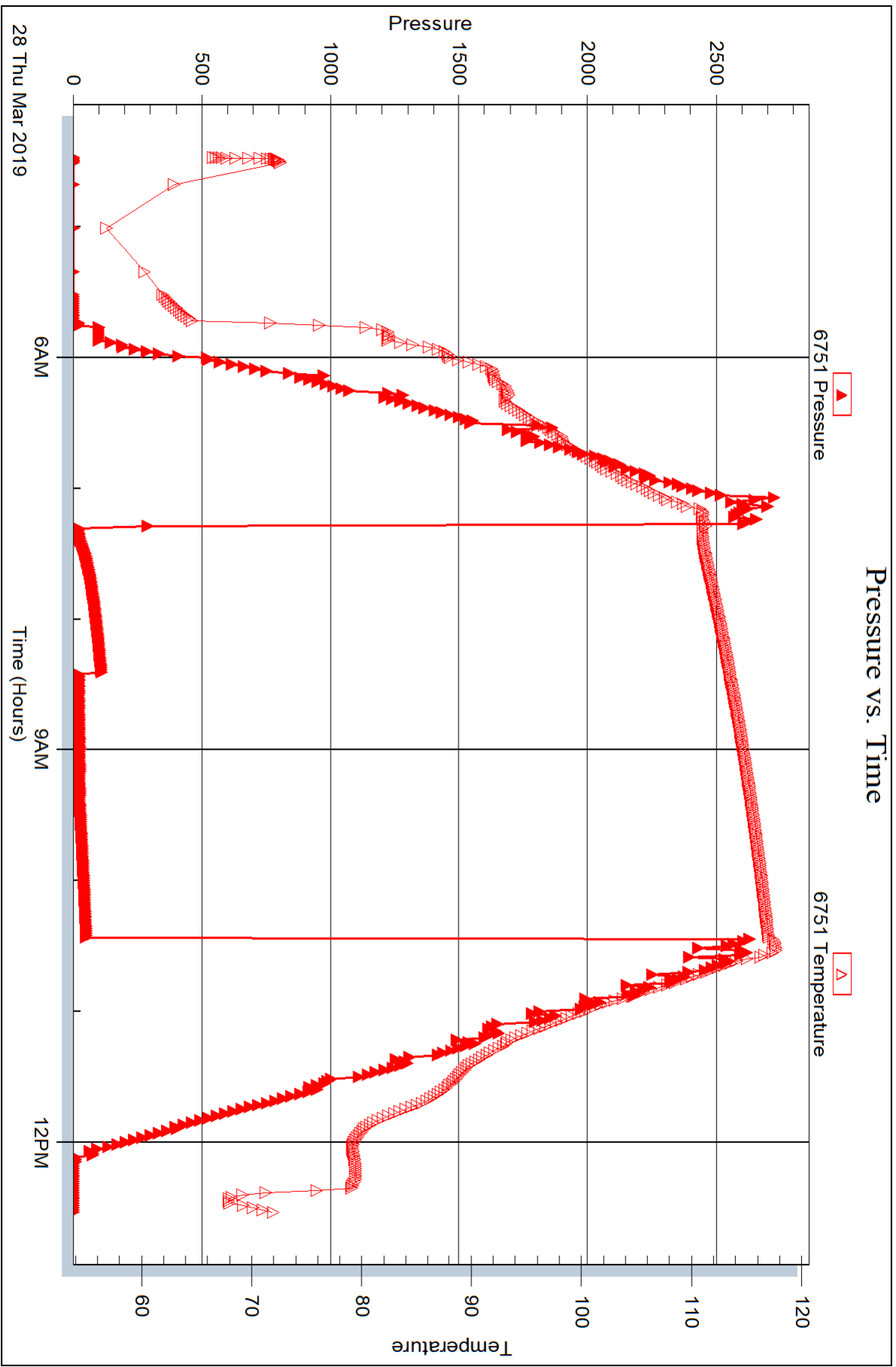
Serial #: 6751

Outside

McCoy Petroleum Corp

Long Ranch "A" 1-8

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

9342 E Central  
Wichita, KS 67206

ATTN: Dave Williams

### **Long Ranch "A" 1-8**

#### **8-32S-19W Comanche,KS**

Start Date: 2019.03.30 @ 03:38:00

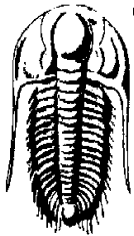
End Date: 2019.03.30 @ 14:15:47

Job Ticket #: 64959                      DST #: 3

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

Printed: 2019.04.02 @ 11:48:33

McCoy Petroleum Corp  
8-32S-19W Comanche,KS  
Long Ranch "A" 1-8  
DST # 3  
Viola  
2019.03.30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp

**8-32S-19W Comanche, KS**

9342 E Central  
Wichita, KS 67206

**Long Ranch "A" 1-8**

ATTN: Dave Williams

Job Ticket: 64959

**DST#: 3**

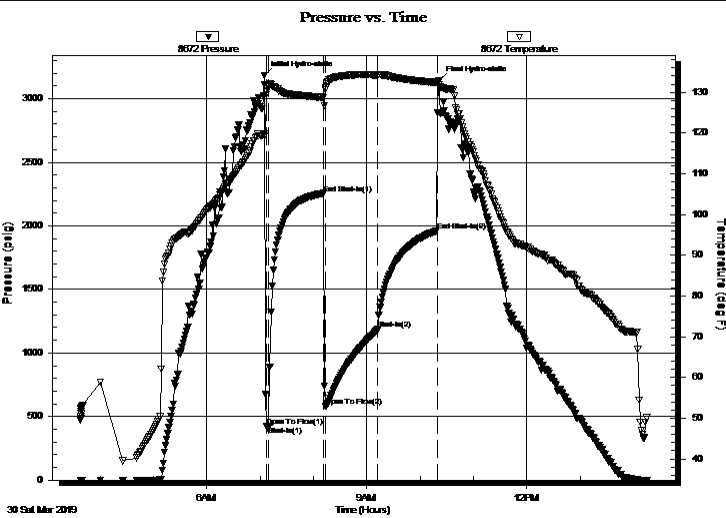
Test Start: 2019.03.30 @ 03:38:00

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:07:17  
 Time Test Ended: 14:15:47  
 Interval: **5936.00 ft (KB) To 5968.00 ft (KB) (TVD)**  
 Total Depth: 5968.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 2072.00 ft (KB)  
 2061.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8672 Inside**  
 Press@RunDepth: 1184.91 psig @ 5937.00 ft (KB) Capacity: psig  
 Start Date: 2019.03.30 End Date: 2019.03.30 Last Calib.: 2019.03.30  
 Start Time: 03:38:01 End Time: 14:15:47 Time On Btm: 2019.03.30 @ 07:04:32  
 Time Off Btm: 2019.03.30 @ 10:21:02

**TEST COMMENT:** IF: Strong Blow , BOB in 1 minute, Built to 39"  
 IS: No Blow Back  
 FF: Strong Blow , BOB in 1 minute Built to 188"  
 FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3183.32	119.87	Initial Hydro-static
3	421.87	129.36	Open To Flow (1)
6	424.22	131.63	Shut-In(1)
67	2254.79	128.73	End Shut-In(1)
70	579.84	131.07	Open To Flow (2)
128	1184.91	134.24	Shut-In(2)
195	1961.53	132.40	End Shut-In(2)
197	3143.97	131.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
320.00	GSY Water 5%G 95%W	3.10
640.00	GMCW 10%G 10%M 80%W	8.98
1477.00	MCW 22%M 78%W	20.72

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp

**8-32S-19W Comanche,KS**

9342 E Central  
Wichita, KS 67206

**Long Ranch "A" 1-8**

Job Ticket: 64959

**DST#: 3**

ATTN: Dave Williams

Test Start: 2019.03.30 @ 03:38:00

## Tool Information

Drill Pipe:	Length: 5766.00 ft	Diameter: 3.80 inches	Volume: 80.88 bbl	Tool Weight: 2100.00 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: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 81.63 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	5936.00 ft			Final 94000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	61.00 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			5912.00	
Hydraulic tool	5.00			5917.00	
Jars	5.00			5922.00	
EM Tool	3.00			5925.00	
Safety Joint	2.00			5927.00	
Packer	5.00			5932.00	29.00 Bottom Of Top Packer
Packer	4.00			5936.00	
Stubb	1.00			5937.00	
Recorder	0.00	8672	Inside	5937.00	
Recorder	0.00	6751	Outside	5937.00	
Perforations	28.00			5965.00	
Bullnose	3.00			5968.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petroleum Corp

**8-32S-19W Comanche,KS**

9342 E Central  
Wichita, KS 67206

**Long Ranch "A" 1-8**

Job Ticket: 64959

**DST#: 3**

ATTN: Dave Williams

Test Start: 2019.03.30 @ 03:38:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

70000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

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 bbl
320.00	GSY Water 5%G 95%W	3.095
640.00	GMCW 10%G 10%M 80%W	8.978
1477.00	MCW 22%M 78%W	20.718

Total Length: 2437.00 ft      Total Volume: 32.791 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .16 @ 55 degrees



Serial #: 8672

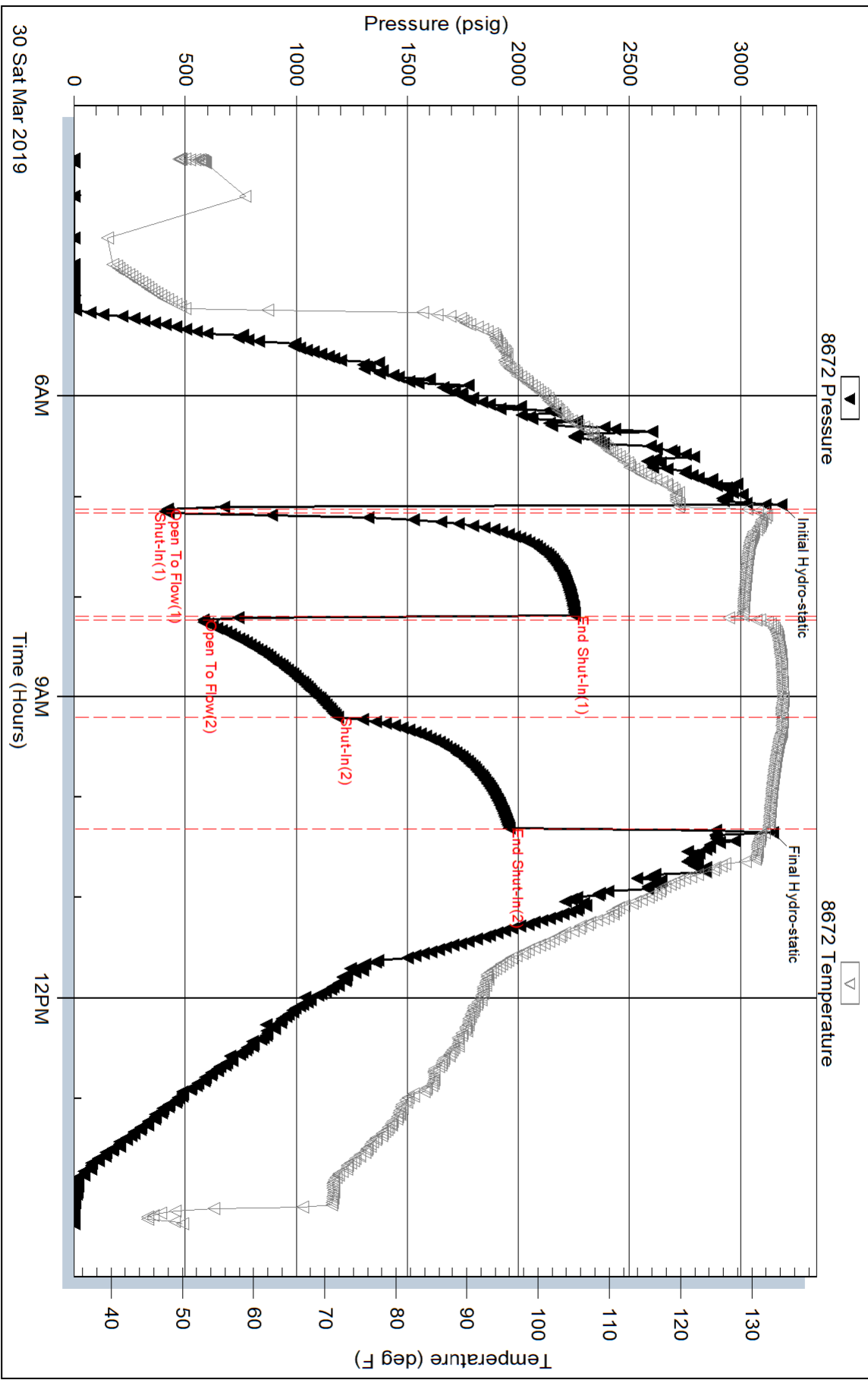
Inside

McCoy Petroleum Corp

Long Ranch "A" 1-8

DST Test Number: 3

# Pressure vs. Time



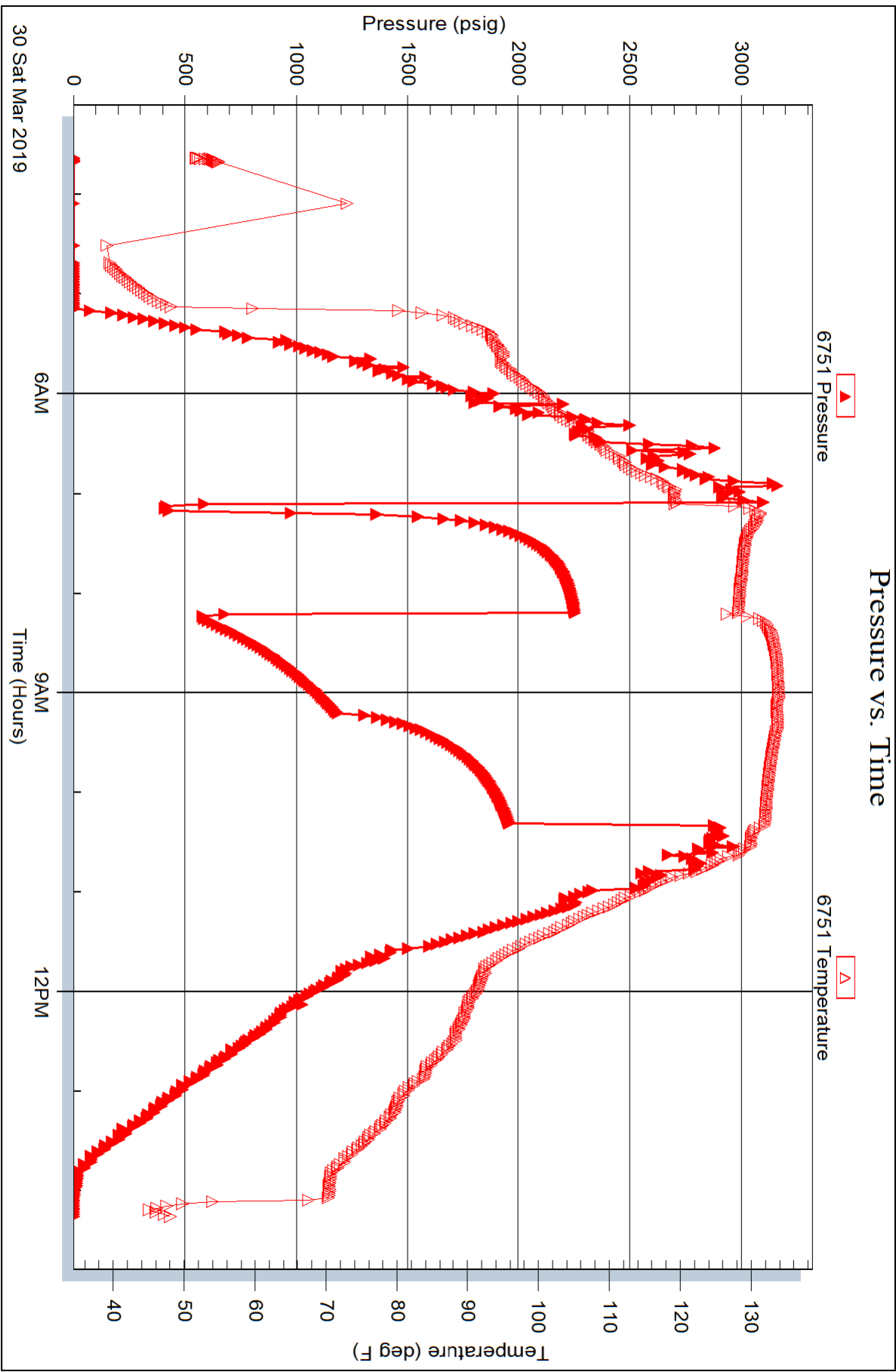
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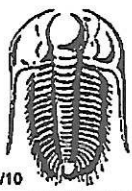
Outside

McCoy Petroleum Corp

Long Ranch "A" 1-8

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64957

Well Name & No. Long Ranch "A" 1-8 Test No. 1 Date 03/27/19  
 Company McCoy Petroleum Corporation Elevation 2072 KB 2061 GL  
 Address 9342 E Central Wichita, KS 67206  
 Co. Rep / Geo. Dave Williams Rig Sterling 4  
 Location: Sec. 8 Twp 32S Rge. 19W Co. ~~2~~ Comanche State KS

Interval Tested 5051 - 5141 Zone Tested Pawnee - Ft Scott  
 Anchor Length 90 Drill Pipe Run 4775 Mud Wt. 9.2  
 Top Packer Depth 5046 Drill Collars Run 153 Vis 55  
 Bottom Packer Depth 5051 Wt. Pipe Run 0 WL 8.8  
 Total Depth 5141 Chlorides 3200 ppm System LCM 3 1/2

Blow Description IFI Strong Blow, BOB in 4 minutes  
ISI - NO BLOW BACK  
FF: Strong Blow, BOB in 30 seconds, Built to 167 inches  
FSI: NO BLOW BACK

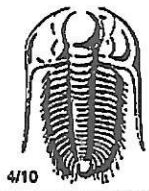
Rec	Feet of	%gas	%oil	%water	%mud
<u>3364</u>	<u>GIP</u>				
<u>65</u>	<u>GCM</u>	<u>5</u>			<u>95</u>
Rec Total	<u>65</u>				

BHT 118 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2522</u>	<input checked="" type="checkbox"/> Test <u>1400</u>	T-On Location <u>08:30</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>09:31</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:23</u>
(D) Initial Shut-In <u>1583</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>15:38</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:59</u>
(F) Second Final Flow <u>55</u>	<input checked="" type="checkbox"/> Mileage <u>140</u> 140	Comments
(G) Final Shut-In <u>1747</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2567</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>65</u> <del>90</del>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>60</u> <del>90</del>	<input type="checkbox"/> Accessibility	Total <u>1865</u>
	Sub Total <u>1865</u>	MP/DST Disc't

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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64958

Well Name & No. Long Ranch A 1-8 Test No. 2 Date 03/28/19  
 Company McCoy Petroleum Corporation Elevation 2072 KB 2061 GL  
 Address 9342 E Central Wichita, KS 67206  
 Co. Rep / Geo. Dave Williams Rig Sterling 4  
 Location: Sec. 8 Twp 32S Rge. 19W Co. Comanche State KS

Interval Tested 5189 - 5219 Zone Tested Mississippi  
 Anchor Length 30 Drill Pipe Run 5034 Mud Wt. 9.4  
 Top Packer Depth 5184 Drill Collars Run 153 Vis 54  
 Bottom Packer Depth 5189 Wt. Pipe Run 0 WL 8.8  
 Total Depth 5219 Chlorides 5000 ppm System LCM 3

Blow Description IF: weak blow, built to 3 inches  
ISI: NO Blow Back  
FF: weak blow, built to 2 1/2 inches, died off to 2 inches  
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>				

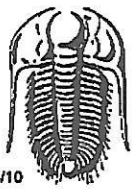
Rec Total 10 BHT 118 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2697</u>	<input checked="" type="checkbox"/> Test <u>1400</u>	T-On Location <u>03:30</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>04:28</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>07:18</u>
(D) Initial Shut-In <u>110</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>10:26</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:32</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>(140)</u> 140	Comments
(G) Final Shut-In <u>52</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2647</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>

Initial Open 5  Ruined Shale Packer  
 Initial Shut-In 60  Ruined Packer  
 Final Flow 60  Extra Copies  
 Final Shut-In 60  Extra Recorder  
 Sub Total 350 Total 2215  
 Sub Total 1865 MP/DST Disc't

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64959

Well Name & No. Long Ranch A 1-8 Test No. 3 Date 03/30/19  
 Company McCoy Petroleum Corporation Elevation 2072 KB 2061 GL  
 Address 9342 E Central Wichita, 67206  
 Co. Rep / Geo. Dave Williams Rig Sterling 4  
 Location: Sec. 8 Twp 32S Rge. 19W Co. Comanche State Ks

Interval Tested 5936 - 5968 Zone Tested Viola  
 Anchor Length 30 Drill Pipe Run 5766 Mud Wt. 9.2  
 Top Packer Depth 5931 Drill Collars Run 153 Vis 50  
 Bottom Packer Depth 5936 Wt. Pipe Run 0 WL 8.8  
 Total Depth 5968 Chlorides 5000 ppm System LCM 8

Blow Description IF: Strong Blow, BOB in 1 minute, Built to 39 inches  
ISI: NO Blow Back  
FF: Strong Blow, BOB in 1 minute, Built to 188 inches  
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1477</u>	<u>MCW</u>		<u>78</u>	<u>22</u>	
<u>640</u>	<u>GMCW</u>	<u>10</u>	<u>80</u>	<u>10</u>	
<u>320</u>	<u>GSY water</u>	<u>5</u>	<u>95</u>		
Rec Total	<u>2437</u>	BHT <u>134</u>	Gravity <u>NIC</u>	API RW <u>.16</u> @ <u>55</u> °F	Chlorides <u>70,000</u> ppm

(A) Initial Hydrostatic	<u>3183</u>	<input checked="" type="checkbox"/> Test	<u>1400</u>	T-On Location	<u>01:15</u>
(B) First Initial Flow	<u>422</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>03:38</u>
(C) First Final Flow	<u>424</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>07:07</u>
(D) Initial Shut-In	<u>2255</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>10:19</u>
(E) Second Initial Flow	<u>579</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>14:15</u>
(F) Second Final Flow	<u>1185</u>	<input checked="" type="checkbox"/> Mileage	<u>(140)</u> 140	Comments	
(G) Final Shut-In	<u>1961</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>3144</u>	<input type="checkbox"/> Straddle		<input checked="" type="checkbox"/> EM Tool	<u>350</u>
Initial Open	<u>5</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Shale Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Ruined Packer	
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Recorder		<input type="checkbox"/> Extra Copies	
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby		Sub Total	<u>0</u>
		<input type="checkbox"/> Accessibility		Total	<u>1865</u>
		Sub Total	<u>1865</u>	MP/DST Disc't	

Approved By Dave P. Williams Our Representative [Signature]

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

**Well Name:** LONG RANCH "A" #1-8  
**API:** 15-033-21,785-00-00  
**Location:** NE-NE-SW-NE  
**License Number:** KCC #5003  
**Spud Date:** 03/20/2019  
**Surface Coordinates:** 1485' FNL & 1485' FEL

**Region:** COMANCHE CO.,KS  
**Drilling Completed:** 03/31/2019

**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 2061'                      **K.B. Elevation (ft):** 2072'  
**Logged Interval (ft):** 731'                      **To:** 6069'                      **Total Depth (ft):** 6070'  
**Formation:** VIOLA  
**Type of Drilling Fluid:** Chemical/Polymer/Gel & Mud Displacement at 3434'.

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

**Company:** McCoy Petroleum Corporation  
**Address:** 9342 E. Central  
Wichita, KS 67206

**GEOLOGIST**

**Name:** David P. Williams, P.G., KSBTP #88  
**Company:** DW ENERGY, LLC (DWE)  
**Address:** 312 N. BROADVIEW STREET  
WICHITA, KANSAS 67208

## CASING AND DEVIATION SURVEY'S:

**SET 20" Conductor Casing:** Spud at 9:15 am on 03/20/19. Mid-Continent Conductor Augered to 25' with a 30" auger. Then bucketed to 116' with a 30" bucket. Ran 3 joints of 54#, 20.00" casing. Set at 116' GL. (127' KB). Will cut off 4.5' below ground level. Cemented with 12 yards of 8 sack grout. Cemented through 2" tubing from 116' to bottom of cellar, Job completed on 03/20/19. Also set 6' x 6' round tin horn (corrugated steel) cellar.

**Conductor Casing:** Drilled 17-1/2" hole to 252'. Ran 6 joints of 48# 13-3/8" surface casing. Talled 249.61', set at 248' KB. Cut Texas Shoe. Strapped bottom 3 joints. Welded 3 on top. Cemented with 275 sks Common, 2% CC, 1/4# CF. Cement did circulate. Plug down at 3:30am on 03/22/19. Basic Energy Svcs Cementing ticket #17699.

**8-5/8" Surface Casing:** Drilled 12-1/4" hole to 736'. Ran 17 joints of new 23# 8-5/8" surface casing. Talled 718.14' + 1.00' GS. Set at 731.44' KB. Strapped guide shoe and bottom 3 joints, welded collars on top 4 joints. Insert in 1st collar. Basket at 222'. Centralizers (5) 1,2,3,5,7. Cemented with 180 sks A-CON; 2% Gel, 3% CC, 1/4# CF & tailed with 150 sks Common; 2% CC, 1/4# CF. Cement did circulate. Plug down at 2:45 am on 03/23/19. Basic Energy Svcs Cementing ticket #17700.

**Deviation Survey Taken:** @ 252' = 1-1/4 degree's; @ 736' = 1-1/4 degree's; @ 5141' = 3/4 degree; @ 5968' = 1 1/2 degree's, @ 6070' = 1 1/2 degree's.

**Plugged well.** Received plugging orders from Dave Ring. Basic Energy plugged well with heavy mud in hole. Bottom plug @ 1050' with 50 sks, then 2nd plug @ 300' with 70 sks, then top plug at 60' with 30 sks. Plugged ratehole with 30 sks and mousehold with 20 sks of 60/40 Pozmix. Total cement was 200 sks of 60/40 Pozmix,

## DSTs

~~DST #1 ~Interval: 5051'-5141'; Times: 5"-60"-65"-60".  
Blow: IF=BOB @ 4": ISIP-NO BB; FF=BOB/30"; FSIP= NO BB.  
Recovery: 3364' GIP & 65' Mud (5% G & 95% M).  
Pressures: IH= 2522.34#; FH= 2566.87#; IF= 31.83 - 33.42#;  
FF= 26.11 - 54.66#; ISIP = 1582.69#; FSIP = 1747.42#; TEMP= 117.6 Deg. F.

~~DST # 2 ~Interval: 5189'-5219'; Times: 5"-60"-60"-60".  
Blow: IF=Weak Blow: @ 3": ISIP-NO BB. FF=Weak Bolw @ 2";  
FSIP - NO BB.  
Recovery: 10' Mud.  
Pressures: IH= 2697.27#; FH= 2647.16#; IF= 20.47-26.75#; FF= 19.63-54.66#; ISIP=110.37#; FSIP=51.98#; TEMP= 117.7 Deg. F.

~~DST # 3 ~ Interval: 5936'-5968'; Times: 5"-60"-60"-60".  
Blow: IF=Strong Blow: BOB/1" Build to 3#.: IF-NO BB.  
ISIP= No BB; FF=BOB/1" Build to 188". FSIP - NO BB.  
Recovery: 2437' Total Fluid: (1477' MCW; 640 GMCW; 320' GW).  
Pressures: IH=3183.32#; FH=3143.97#; IF=421.87-424.22#;  
FF=579.84-1184.91#; ISIP=2254.79#; FSIP=1961.53#; TEMP= 134.24 Deg. F.

## Comments

After review of all geologic samples as examined, structural correlation to offsetting prior drilled wells combined with the lack of hydrocarbon encountered and from the electric log analysis it was determined by the all parties that this well appears to be non-commercial and should be plugged and abandoned.

Respectfullu submitted,

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

### Qualifiers: CARBONATE CLASSIFICATION: AFTER DUNHAM:

GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock.

MUDSTONE; muddy carbonate rocks containing < (less than 10%) grains.

WACKESTONE; mud supported carbonate rocks with > (more than 10%) grains.

PACKSTONE; grain supported muddy carbonate rocks.

GRAINSTONE; mud free carbonate rock, grain supported.

BOUNDSTONE; carbonate rock bound together at deposition (coral, etc.).



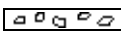

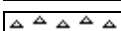
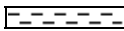









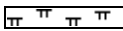

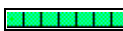
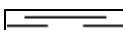
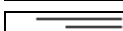
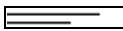



CRYSTALLINE CARBONATE; carbonate rock retaining to little of their depositional texture to be classified.

Qualifiers; (Fossils, Minerals, Shows, Porosity, etc.)

Rare = < (less than 1%) of sample total.














Trace = < (less than 5%) of sample total, > (greater than 5%) an estimate of total percentage.















## ROCK TYPES

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

















## ACCESSORIES








### MINERAL

	Ø
	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chlorite
	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr

	Glau
	Gyp
	Hvymin
	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
	Fuss
	Gastro
	Oolite












	Oomold
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom

### STRINGER

	Anhy
	Arg
	Bent
	Coal
	Dol
	Gry sh
	Gyp
	Ls

	Mrlst
	Sltstrg
	Ssstrg

### TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest



**OTHER SYMBOLS**

**POROSITY**

- ∅
- New symbol
- E Earthy
- F Fenest
- F Fracture
- ⊕ Oomold
- ⊖ Organic

- Ⓟ Pinpoint
- Ⓡ Vuggy

- SORTING**
- Ⓜ Well
  - Ⓜ Moderate
  - Ⓟ Poor

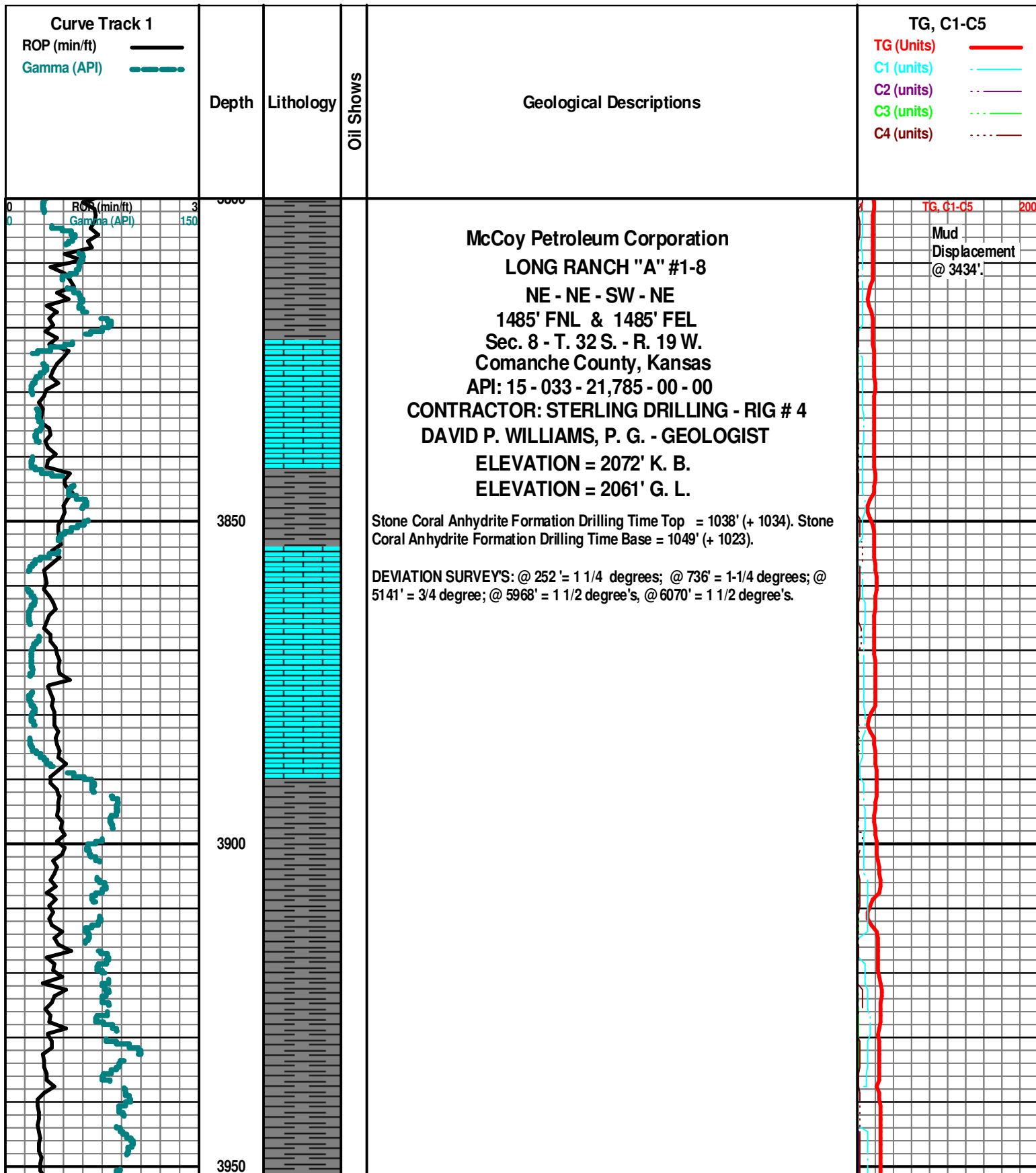
- ROUNDING**
- Ⓡ Rounded
  - Ⓡ Subrnd
  - Ⓡ Subang
  - Ⓡ Angular

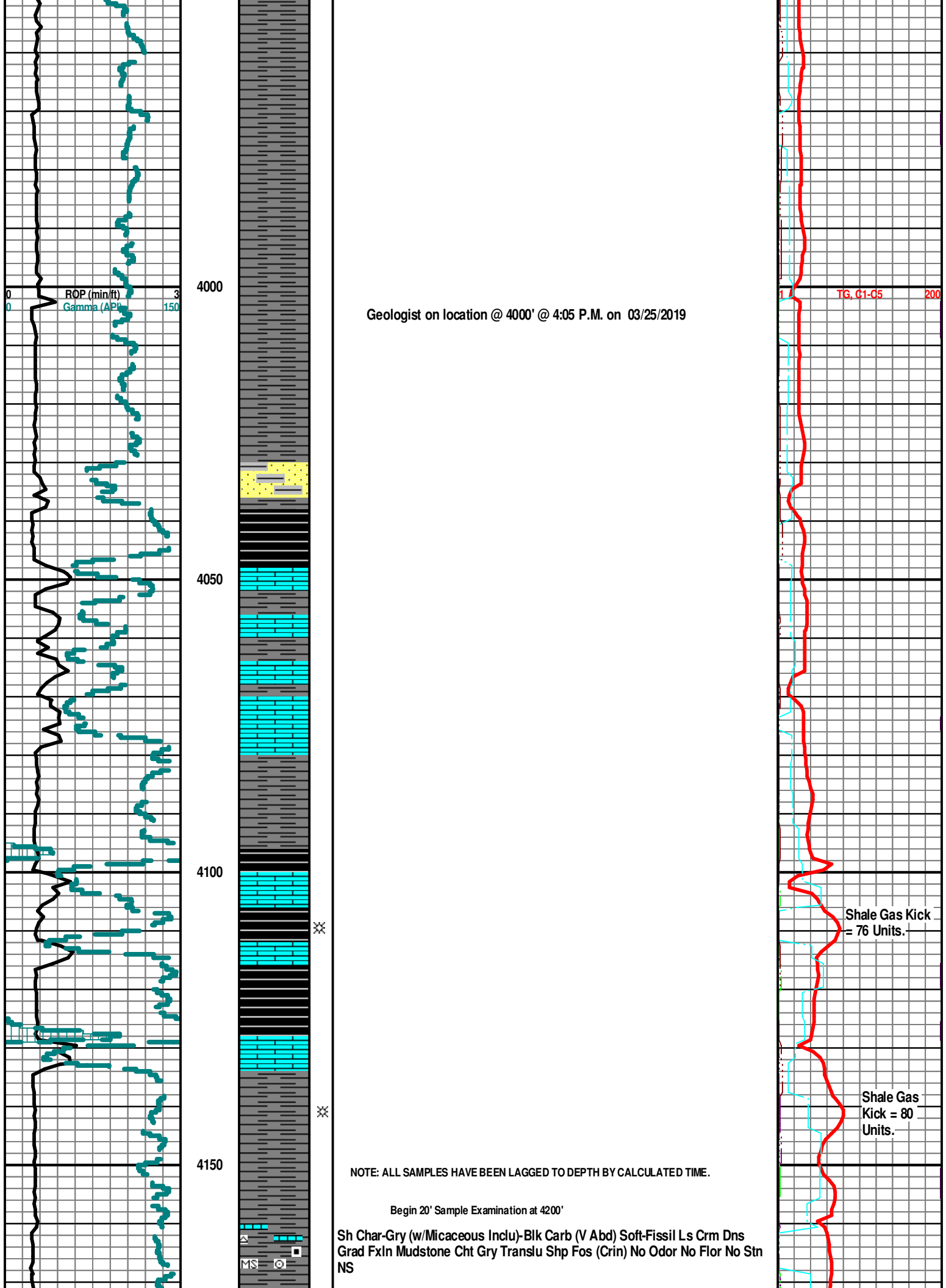
- OIL SHOW**
- Ⓡ Even

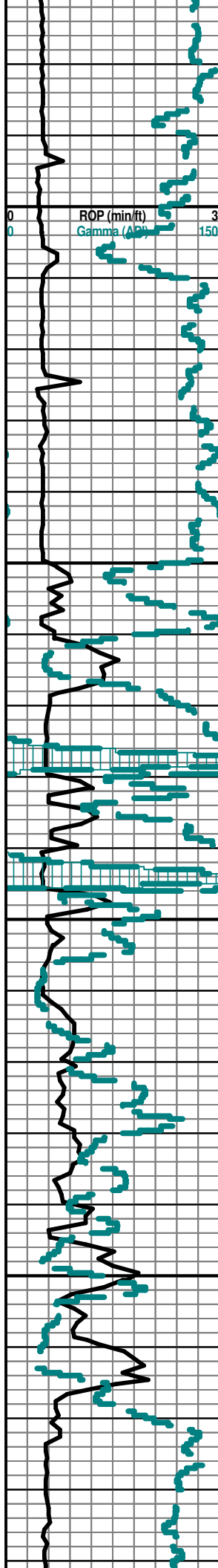
- ⊗ Gas show
- ⊙ Spotted
- ⊙ Ques
- Ⓡ Dead

- INTERVAL**
- Ⓡ Dst
  - Ⓡ Dst\_alt

- EVENT**
- Ⓡ Rft
  - Ⓡ Sidewall







4200  
4250  
4300  
4350



Sh Char-Gry (w/Micaceous Inclu)-Blk Carb (V Abd) Soft-Fissil Ls Crm Dns  
Grad FxIn Wackestone No Odor No Flor No Stn NS

Sh Char-Gry (w/Micaceous Inclu)-Blk Carb (V Abd) Soft-Fissil Ls Crm Dns  
Grad FxIn Wackestone Qtz Ss VFG Fair Sorting Fair Rd (w/Carb Includ) Pyr  
Mass No Odor No Flor No Stn NS

Sh Char-Gry (w/Carb Inclu)-Blk Carb (V Abd) Soft-Fissil Ls Crm Dns Grad FxIn  
Wackestone Qtz Ss (Tr Only) VFG Siltstn Fair Sorting Fair Rd (w/Carb Includ)  
Pyr Mass No Odor No Flor No Stn NS

Sh Blk Carb (V Abd)-Char-Gry (w/Carb Inclu)-Soft-Fissil Ls Crm Dns Grad FxIn  
Wackestone Qtz Ss (Tr Only) VFG Siltstn Fair Sorting Fair Rd (w/Carb Includ)  
No Odor No Flor No Stn NS

HEEBNER 4290' (- 2218)

TORONTO 4305' (- 2233)

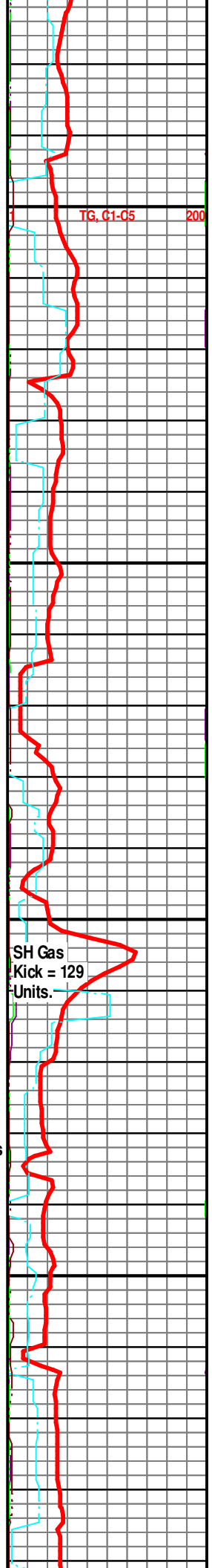
Sh Blk Carb-Char-Gry (w/Carb Inclu) Soft-Fissil Ls Crm Dns Grad FxIn  
Wackestone Qtz Ss (Tr Only) VFG Siltstn Fair Sorting Fair Rd (w/Carb Includ)  
Cht Gry Translu Shp Vit No Odor No Flor No Stn NS

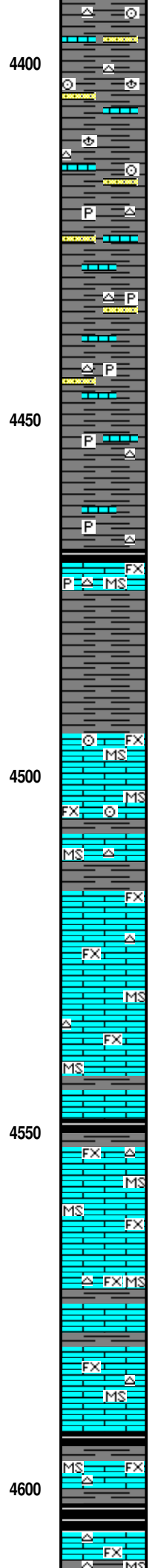
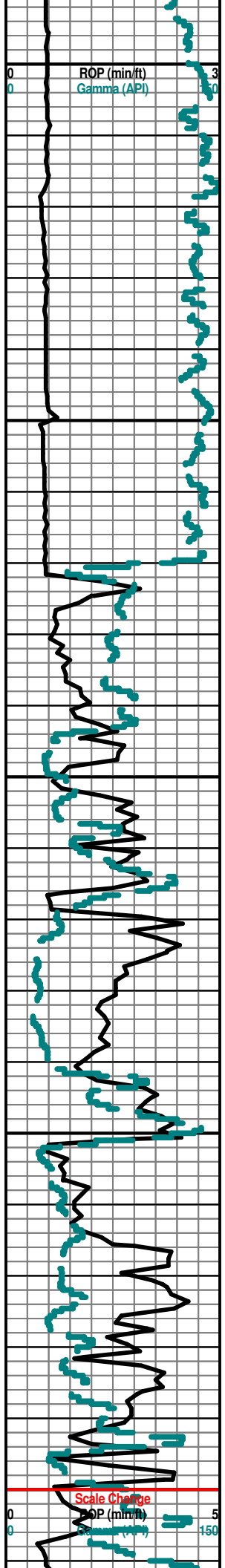
Ls Crm Dns Grad FxIn Mudstone Cht Amber-Drk Gry Translu Shp Vit Pyr Mass  
(w/Whit Fos Includ)Sh Char-Gry-Drk Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Crm Dns Grad FxIn Mudstone Qtz Ss (Tr Only) VFG Siltstn Fair Sorting  
Fair-Med Rd Pyr Mass (w/Whit Fos Includ)Sh Char-Gry-Drk Gry Soft-Fissil No  
Odor No Flor No Stn NS

DOUGLAS SHALE 4368' (- 2296)

Ls Crm Dns Grad FxIn Mudstone (w/Pyr Includ) Fos (Fuss) Sh Blk  
Carb-Char-Gry-Drk Gry Soft-Fissil No Odor No Flor No Stn NS





Ls Crm Dns Grad FxIn Mudstone (w/Pyr Inclus) Fos (Brach, Crin) Cht Wht-Gry Translu Shp Vit Qtz Ss (Tr Only) VFG Siltstn Fair Sorting Fair-Med Rd Sh Blk Carb-Char-Gry-Drk Gry Soft-Fissil No Odor No Flor No Stn NS

Sh Gry-Drk Gry-Blk Carb-Char Ls Crm Dns Grad FxIn Mudstone (w/Pyr Inclus) Cht Wht-Gry Translu Shp Vit Qtz Ss (Tr Only) VFG Siltstn Fair Sorting Fair-Med Rd No Odor No Flor No Stn NS

Sh Gry-Drk Gry-Blk Carb-Char Soft-Fissil Ls Crm Dns Grad FxIn Mudstone (w/Pyr Inclus) Cht Wht-Gry Translu Shp Vit Pyr Mass No Odor No Flor No Stn NS

LANSING "A" 4494' (- 2422)

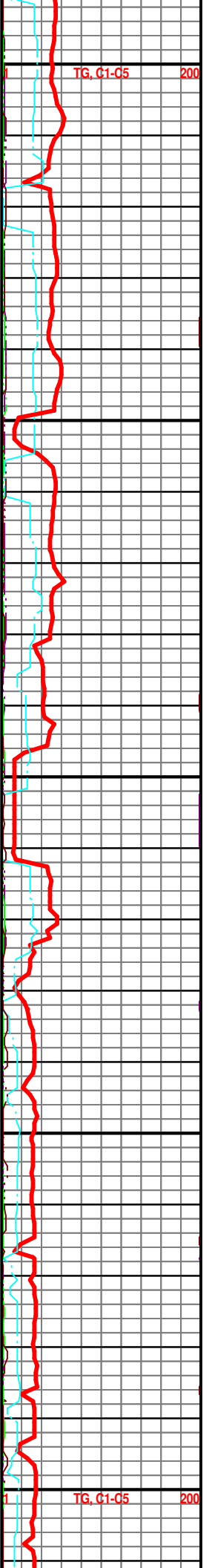
Ls Wht-Crm FxIn Dns Mudstone Fos (Crin) Sh Gry-Char-Blk Carb AA No Odor No Stn No Flor NS

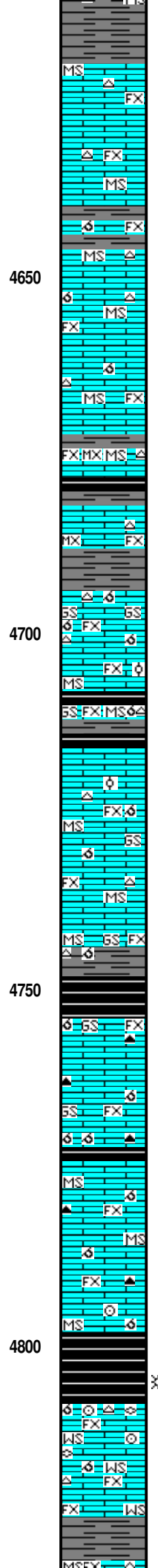
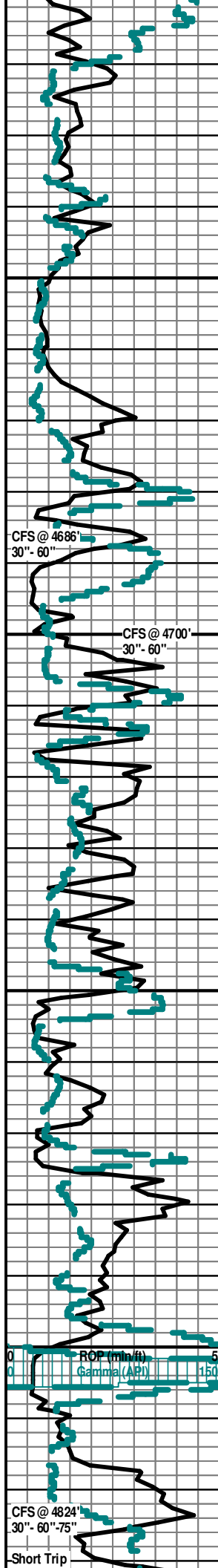
LANSING "B" 4516' (- 2444)

Ls Wht-Crm FxIn Dns Mudstone Cht Gry-Lt Brn Translu-Shp-Vit Sh Gry-Char-Blk Carb AA No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Dns Mudstone Cht Gry-Lt Brn Translu-Shp-Vit Sh Gry-Char-Blk Carb AA No Odor No Stn No Flor NS

Sh Blk Carb-Gry-Char Soft-Fissil Ls Wht-Crm FxIn Dns Mudstone Cht Gry-Lt Brn Translu-Shp-Vit No Odor No Stn No Flor NS





Ls Wht-Crm FxIn Dns Mudstone Cht Gry-Lt Brn Translu-Shp-Vit Sh  
Gry-Char-Blk Carb AA No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Dns Mudstone Cht Gry-Wht (w/Fos (Spicule) Includ  
Translu-Shp-Vit Sh Gry-Char No Odor No Stn No Flor NS

30"- CFS @ 4686' Ls Wht-Crm FxIn Dns Poor IxIn Ø Mudstone (Few Pcs) Grad  
Poor OOM Ø Cht Wht-Gry Translu-Shp-Vit Sh Gry-Char No Odor No Stn No  
Flor NS

60"- CFS @ 4686' Ls Wht-Crm MicroIn-FxIn Dns Mudstone Cht Wht-Gry  
Translu-Shp-Vit Sh Gry-Char No Odor No Stn No Flor NS

**KANSAS CITY "IOLA" (H) 4694' (- 2622)**

30"- CFS @ 4700' Ls Wht-Crm FxIn Poor IxIn Ø Mudstone Grad Med-Good  
OOM Ø (w/Good Disolu) Grainstone Cht Wht-Gry Translu-Shp Vit Sh Gry-Char  
No Odor No Stn No Flor NS

60"- CFS @ 4700' Ls Wht-Crm FxIn Poor IxIn Ø Mudstone Grad Good OOM Ø  
(w/Good Disolu) Grainstone Cht Wht-Gry Translu-Shp-Vit Sh Gry-Char No  
Odor No Stn No Flor NS

Ls Wht-Crm FxIn Poor IxIn Ø Mudstone Grad Good OOM Ø (w/Good Vug  
Disolu) Grainstone Cht Wht (w/OOL Includ) Translu-Shp-Vit Sh Gry-Char-Blk  
Carb No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Dns Poor IxIn Ø Mudstone Grad Good OOM Ø AA (Few Pcs)  
Cht Wht-Gry Translu-Shp-Vit Sh Gry-Char No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Dns Poor IxIn Ø Mudstone Grad Good OOM Ø (Few Pcs) Cht  
Amber-Drk Gry Translu-Shp-Vit Sh Gry-Blk Carb-Char No Odor No Stn No Flor  
NS

Ls Wht-Crm FxIn Dns Poor IxIn Ø Mudstone Grad Good OOM Ø (Few Pcs) Cht  
Amber-Drk Gry Translu-Shp-Vit Fos (Crin) Sh Gry-Char-Blk Carb No Odor No  
Stn No Flor NS

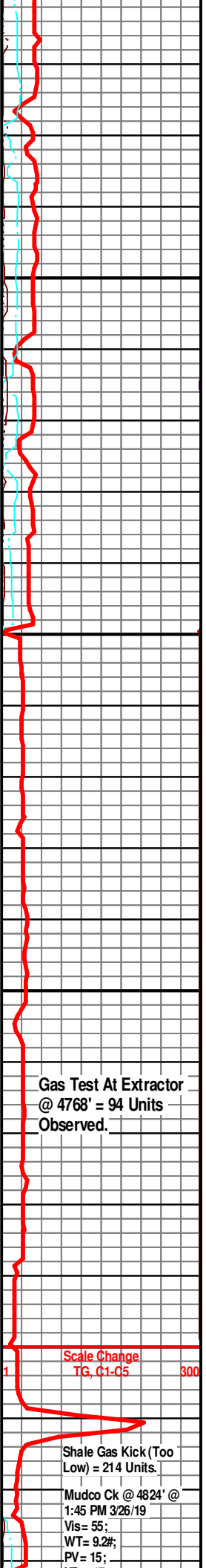
**STARK 4798' (-2726)**

**KANSAS CITY "SWOPE" (K) 4808' (-2736)**

30" CFS @ 4824' Ls Wht-Crm FxIn Dns Poor IxIn Ø Mudstone Grad Med OOM Ø (Few Pcs) Cht  
Gry-Lt Wht Translu-Op-Shp-Vit Fos (Crin, Fuss) Sh Blk Carb-Char (w/GSG Under Heat in Wtr) No  
Odor No Stn No Flor SSG in Blk Carb Sh

60" CFS @ 4824' Ls Wht-Crm FxIn Dns Poor IxIn Ø Mudstone Cht Gry-Wht Translu-Op-Shp-Vit  
Fos (Crin Sh Char-Blk Carb (Few Pcs) No Odor No Stn No Flor SSG in Blk Carb Sh

75" CFS @ 4824' Ls Wht-Crm FxIn Dns Poor IxIn Ø Mudstone Cht Gry-Wht Translu-Op-Shp-Vit  
Fos (Crin Sh Char-Blk Carb (Few Pcs) No Odor No Stn No Flor SSG in Blk Carb Sh



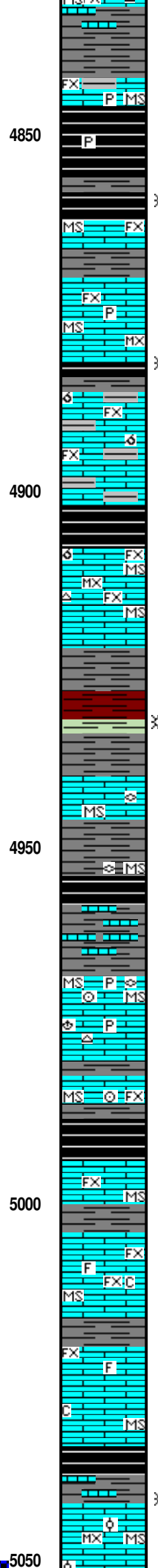
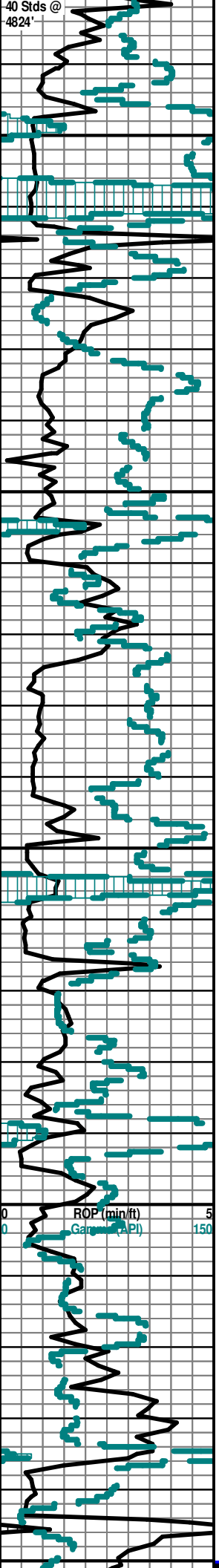
Gas Test At Extractor  
@ 4768' = 94 Units  
Observed.

Scale Change  
TG, C1-C5 300

Shale Gas Kick (Too  
Low) = 214 Units.

Mudco Ck @ 4824' @  
1:45 PM 3/26/19  
Vis= 55;  
WT= 9.2#;  
PV= 15;

CFS @ 4824'  
30"- 60"-75"  
Short Trip



40 Stds @ 4824'

Ls Wht-Crm-Gry Fxln Dns Mudstone Cht Amber-Drk Wht Op-Shp-Vit Sh Gry-Char-Blk Carb-Aqua Soft-Fissil No Odor No Stn No Flor NS

Sh Gry-Char-Blk Carb (w/GSG Under Heat in Wtr) Ls Wht-Crm Fxln Dns Mudstone Poor lxn Pin-Pt Ø Pyr Mass Sh Char-Gry-Blk Carb Sofy-Fissil No Odor No Stn No Flor SSG in Blk Carb Sh  
**HUSHPUCKNEY SHALE 4856' (-2784)**

SSG in Blk Carb Sh  
**KANSAS CITY "UPPER HERTHA" 4866' (-2794)**

Sh Gry-Char-Blk Carb (w/SSG Under Heat in Wtr) Ls Wht-Crm Fxln Dns Mudstone Poor Microxln Ø Pyr Mass No Odor No Stn No Flor SSG

Ls Wht-Crm-Gry Fxln Dns Poor lxn Ø Mudstone Tr Wht OOM Ø Sh Gry-Char-Blk Carb-Aqua Soft-Fissil No Odor No Stn No Flor NS  
**KANSAS CITY "LOWER HERTHA" 4908' (-2836)**

Sh Gry-Char-Blk Carb (w/SSG Under Heat in Wtr)-Maroon-Aqua (tr Only) Ls Wht-Crm Fxln Dns Mudstone Poor Microxln Ø Cht Wht Op Shp-Vit No Odor No Stn No Flor SSG

**BASE KANSAS CITY 4954' (-2882)**

Ls Wht-Crm-Gry Fxln Dns Poor lxn Ø Mudstone Fos (Fuss) Sh Gry-Char-Blk Carb Soft-Fissil No Odor No Stn No Flor NS  
**MARMATON 4968' (-2896)**

Ls Wht-Crm-Gry Fxln Dns Poor lxn Ø Mudstone Cht Crm-Tan Translu-Shp-Vit Fos (Brach, Crin) Pyr Mass Sh Gry-Char-Blk Carb Soft-Fissil No Odor No Stn No Flor NS

**MARMATON "B" 5004' (-2932)**

Ls Wht-Crm-Gry Fxln Dns Poor lxn Ø Mudstone Sh Gry-Char-Blk Carb-Tr Aqua Soft-Fissil No Odor No Stn No Flor NS

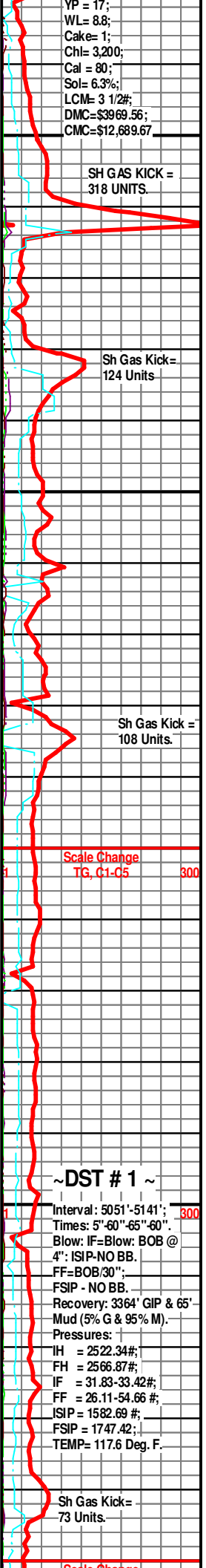
**MARMATON "C" 5020' (-2948)**

Ls Wht-Crm-Gry Fxln Dns Poor lxn Ø Mudstone Cht Wht Translu (w/Fos Spicule Includ) Chalky Sh Gry-Char-Blk Carb-Tr Aqua Soft-Fissil (Dec) No Odor No Stn No Flor NS

**BANDERA SHALE 5034' (-2962)**

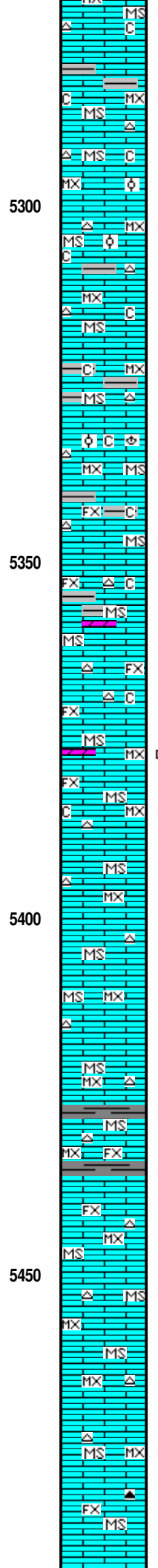
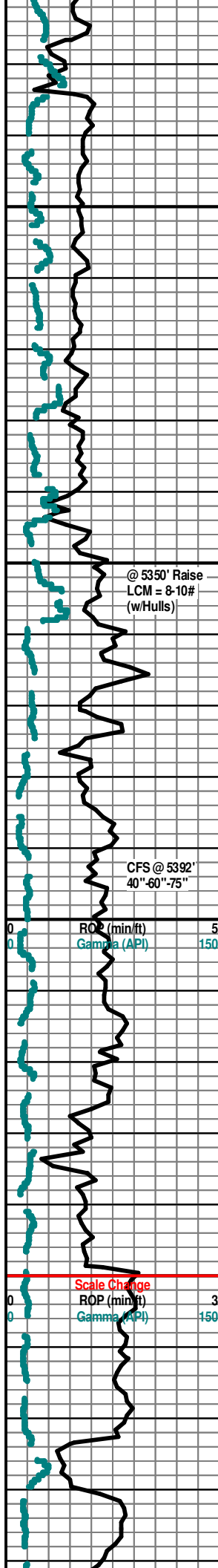
**PAWNEE 5042' (-2970)**

30" CFS @ 5067' Ls Wht-Crm Microxln Mudstone (w/Poor lxn Ø) Cht Wht (w/OOL Includ) Poor InterOOL/No Dissolu Leaching w/SSG in Wtr Under Heat ? Frac Ø Op-Shp-Vit Sh Blk Carb-Char-Gry Soft-Fissil Sli Inc Faint Odor Sli Lt Grn Flor No Stn SSG









Ls Wht-Crm-Gry FxIn-MicroxIn Mudstone Poor IxIn Ø Cht Wht Dns Shp Vit Chalky Sh-Char-Gry-Blk Carb- Grn/Aqua Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn-MicroxIn Mudstone Poor IxIn Grad Poor OOL Ø (w/Ooids in pl) No Leaching Dissolu Cht Wht-Gry Dns Shp Vit Chalky Sh-Char-Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn-MicroxIn Mudstone Poor IxIn Grad Poor Tr OOL Ø (w/Ooids in pl) No Leaching Dissolu Cht Gry-Wht Dns Shp Vit Fos (Brach) Chalky Sh-Char-Gry-Blk Carb Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Mudstone Poor IxIn Ø Grad Dolo Gry FxIn Poor IxIn Ø Cht Wht Dns Shp Vit Chalky Sh-Char-Gry-Blk Carb Soft-Fissil No Odor No Stn No Flor NS

**MISSISSIPPIAN "SPERGEN" 5358' (-3286)**

40" CFS @ 5392' Ls Wht-Crm-Gry FxIn Mudstone Poor IxIn Ø Cht Wht Dns Shp Vit Chalky Sh-Char-Grn/Gry-Blk Carb Soft-Fissil No Odor No Stn No Flor NS

60" CFS @ 5392' Ls Wht-Crm FxIn Mudstone Poor IxIn Ø (w/Tr Dead Oil Stn (Drk Blk) Grad Dolo Crm (Tr Only) MicroxIn Poor IxIn Ø (1 Pc w/Lt Grn Flor) Cht Wht Dns Shp Vit Chalk (Abd) Sh-Char-Grn/Gry-Blk Carb Soft-Fissil No Odor No Stn No Flor NS

75" CFS @ 5392' Ls AA Cht Wht-Yellow Op Shp Vit Sh AA Chalky (Abd) No Odor No Stn No Flor NS

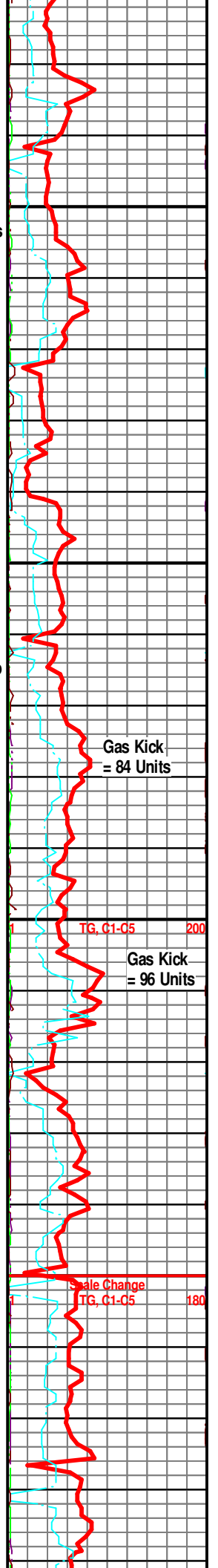
Ls Wht-Crm-Gry FxIn-MicroxIn Mudstone Poor IxIn Ø Cht Wht Dns Shp Vit Chalky Sh-Char-Gry-Blk Carb- Grn/Aqua Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn-MicroxIn Mudstone Poor IxIn Ø Cht Wht Dns Shp Vit V Chalky (Inc) Sh-Char-Gry-Blk Carb Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn-MicroxIn Mudstone Poor IxIn Ø Cht Wht Dns Shp Vit Chalky Sh-Char-Gry-Blk Carb- Grn/Aqua Soft-Fissil No Odor No Stn No Flor NS

**MISSISSIPPIAN "WARSAW" 5473' (-3401)**

Ls Wht Chalky V Soft V Abd) Ls Wht-Crm-Gry MicroxIn Mudstone Poor IxIn Ø Cht Wht Dns Shp Vit Sh-Char-Gry-Blk Carb- Grn/Aqua Soft-Fissil No Odor No Stn No Flor NS





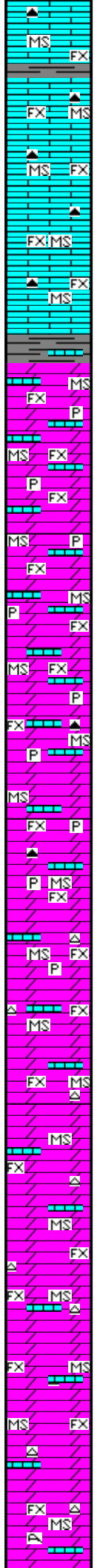
5500

5550

5600

5650

5700



Ls Wht Chalky V Soft V Abd) Ls Wht-Crm-Gry Fxln Mudstone Poor-Fair Ixln Ø  
 Cht Wht Dns Shp Vit Sh-Char-Gry-Blk Carb- Grn/Aqua Soft-Fissil No Odor No  
 Stn No Flor NS

Ls Wht-Crm-Gry Fxln-Microxln Mudstone Poor Ixln Ø Cht Gry Dns Shp Vit  
 Chalky (Dec) Sh-Char-Gry-Blk Carb Soft-Fissil No Odor No Stn No Flor NS

**MISSISSIPPIAN "COWLEY" 5538' (- 3466)**

Dolo Lt Gry Fxln Mudstone Poor Ixln Ø (w/Pyr Inclus) (Inc) Ls Crm-Gry  
 Fxln-Microxln Mudstone Poor Ixln Ø (Dec) Chalky (Dec) Sh AA No Odor No Stn  
 No Flor NS

Dolo Lt Gry Fxln Mudstone Poor Ixln Ø (w/Pyr Inclus) (V Abd) Ls Crm-Gry  
 Fxln-Microxln Mudstone Poor Ixln Ø (Dec) Cht Crm-Org Op Shp Vit Chalk  
 (Dec) Sh Char-Blk Carb No Odor No Stn No Flor NS

Dolo Lt Gry Fxln Mudstone Poor Ixln Ø (w/Pyr Inclus) (V Abd) Ls Crm-Gry  
 Fxln-Microxln Mudstone Poor Ixln Ø (Dec) Cht Crm-Org Op Shp Vit Chalk  
 (Dec) Sh Char-Blk Carb No Odor No Stn No Flor NS

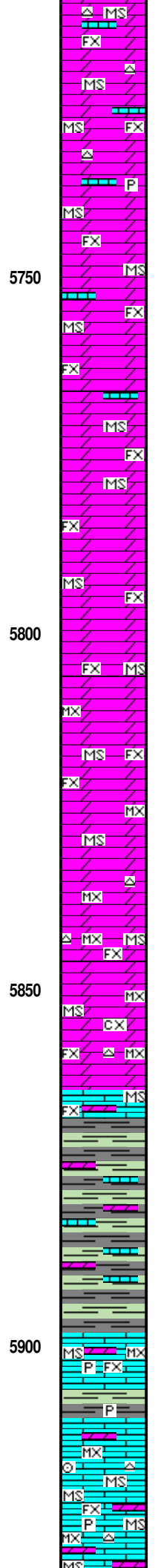
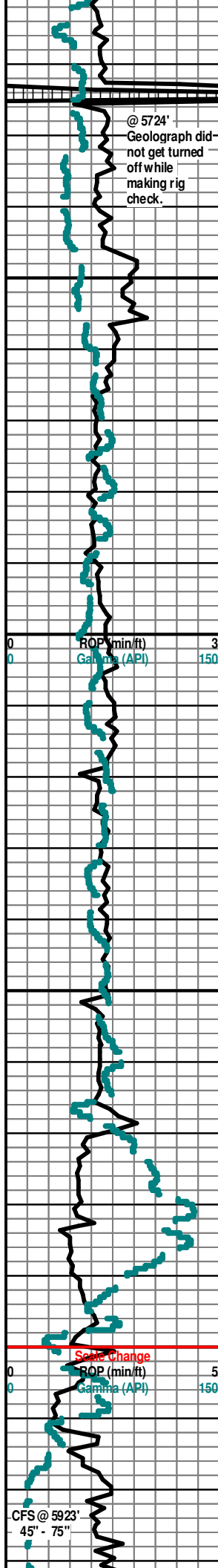
Dolo Lt Gry Fxln Mudstone Poor Ixln Ø Ls Crm-Gry Fxln-Microxln Mudstone  
 Poor Ixln Ø (Tr Only) Cht Wht Op Shp Vit Sh Char Soft (Tr Only) No Odor No  
 Stn No Flor NS

Dolo Lt Gry-Wht Fxln Mudstone Poor Ixln Ø Ls Crm AA (Tr Only) Cht Wht Op  
 Shp Vit Chalk (Tr Only) Sh Char-Grn/Aqua Soft (Tr Only) No Odor No Stn No  
 Flor NS

Dolo Lt Gry-Wht Fxln Mudstone Poor Ixln Ø (w/Fos (? Coral) Inclus) Ls Crm  
 AA (Tr Only) Cht Wht Op Shp Vit Sh Char-Grn/Aqua Soft (Tr Only) No Odor No  
 Stn No Flor NS

RO (min/ft)  
 Gamma (API)

TG, C1-C5 180



Dolo Lt Gry-Wht FxIn Mudstone Poor IxIn Ø Ls Crm AA (Tr Only) Cht Wht Translu-Op Shp Vit Sh Char-Grn/Aqua (w/Pyr Inclus) Soft (Tr Only) No Odor No Stn No Flor NS

Dolo Lt Gry-Wht FxIn Mudstone Poor IxIn Ø Ls Crm AA (Tr Only) Sh Char-Grn/Aqua Soft No Odor No Stn No Flor NS

Dolo Lt Gry-Wht FxIn Mudstone Poor IxIn Ø Ls Crm AA (Tr Only) Cht Wht Translu-Op Shp Vit Sh Char Soft (Tr Only) No Odor No Stn No Flor NS

Dolo Lt Gry-Wht FxIn Mudstone Poor IxIn Ø Ls Crm AA (Tr Only) Cht Wht Translu-Op Shp Vit Sh Char Soft (Tr Only) No Odor No Stn No Flor NS

Dolo Lt Gry-Crm FxIn Mudstone Poor IxIn Ø Ls Tan-Crm Dns MicroxIn Mudstone Poor IxIn Ø (Tr Only) Cht Wht Translu-Op Shp Vit Sh Char-Grn/Aqua Soft-Fissil Soft (Tr Only) No Odor No Stn No Flor NS

Dolo Lt Gry-Crm FxIn Mudstone Poor IxIn Ø Ls Tan-Crm Dns MicroxIn Mudstone Poor IxIn Ø (Tr Only) Cht Wht Translu-Op Shp Vit Qtz Xls Clear Translu (1 Pc) Sh Char-Grn/Aqua Soft-Fissil Soft (Tr Only) No Odor No Stn No Flor NS

Dolo Lt Gry-Crm FxIn Mudstone Poor IxIn Ø Ls Tan-Crm Dns MicroxIn Mudstone Poor IxIn Ø (Tr Only) Cht Wht Translu-Op Shp Vit Qtz Xls Clear Translu (1 Pc) Sh Char-Grn/Aqua Soft-Fissil Soft (Tr Only) No Odor No Stn No Flor NS

**KINDERHOOK 5869' (- 3797)**

Sh Grn/Aqua/Lt Blue Fissil (Inc) Dolo/Ls AA FxIn Mudstone AA No Odor No Stn No Flor NS

Sh Grn/Aqua/Lt Blue Fissil (Inc) Dolo/Ls AA FxIn Mudstone AA No Odor No Stn No Flor NS

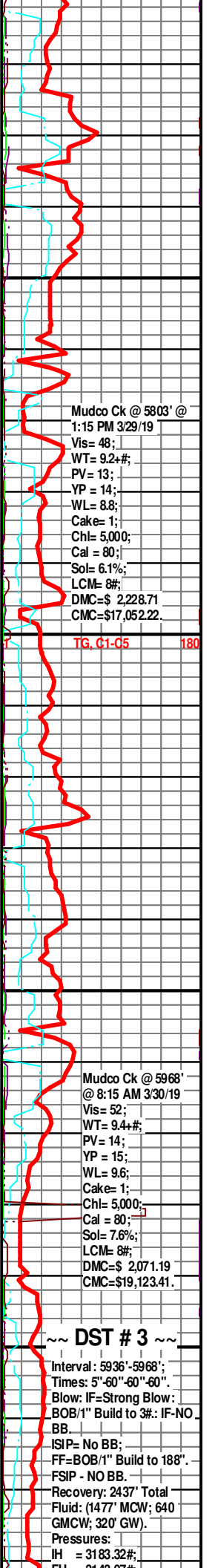
45" CFS @ 5923' Ls Crm-Wht FxIn-MicroxIn Mudstone Poor IxIn Ø Dolo Wht-Lt Gry AA Grad Crm-Tan MicroxIn Mudstone Poor IxIn Ø (Tr Only) Sh Lt Blue (w/Pyr Inclus)-Char-Maroon (Tr Only) No Odor No Stn No Flor NS

**COMPTON 5910' (-3838)**

75" CFS @ 5923' Ls Crm-Wht FxIn-MicroxIn Mudstone Poor IxIn Ø Dolo Wht-Lt Gry AA Grad Crm-Tan-Lt Gry MicroxIn Mudstone Poor IxIn Ø Cht Wht-Gry Translu Shp-Vit Fos (Crim) Sh Lt Blue (w/Pyr Inclus)-Char-Maroon (Tr Only) No Odor No Stn No Flor NS

45" CFS @ 5938' Ls Crm-Wht FxIn-MicroxIn Mudstone Poor IxIn Ø Dolo Wht-Lt Gry AA Grad Crm-Tan-Lt Gry MicroxIn Mudstone Poor IxIn Ø Cht Wht-Gry Translu-Op Shp Vit Sh Lt Blue (w/Pyr Inclus)-Char) No Odor No Stn No Flor NS

75" CFS @ 5938' Ls Crm-Wht FxIn-MicroxIn Mudstone Poor IxIn Ø Grad Inc Dolo Wht-Lt Gry-Lt



MicroIn Mudstone Poor Ixln Ø Cht Wht-Gry Translu-Op Shp Vit Sh Lt Blue (w/Pyr Inclus)-Char No Odor No Stn No Flor NS

PH = 3143.97#;  
IF = 421.87-424.22#;  
FF = 579.84-1184.91#;  
ISIP = 2254.79 #;  
FSIP = 1961.53#;  
TEMP= 134.24 Deg. F.

### VIOLA 5948' (-3876)

45" CFS @ 5968' Dolo Wht-Lt Gry-Blu MicroxIn Mudstone Poor Ixln Ø Ls Crm-Wht FxIn-MicroxIn Mudstone Poor Ixkn Ø Grad Inc Cht Wht-Gry Translu-Op Shp Vit Sh Lt Blue (w/Pyr Inclus)-Char No Odor No Stn No Flor NS

Gas Kick = 91 Units

75" CFS @ 5968' Dolo Wht-Lt Gry FxIn Mudstone Poor Ixln Ø Brad Indiv OOids in Tray Ls Crm-Wht FxIn-MicroxIn Mudstone Poor Ixkn Ø Grad Inc Cht Wht-Gry Translu-Op Shp Vit Tr Qtz Xls Clear Sh Lt Blue (w/Pyr Inclus)-Char-Maroon No Odor No Stn No Flor NS  
Dolo Wht-Lt Gry FxIn-MicroxIn Mudstone Poor Ixln Ø Ls Crm-Wht FxIn-MicroxIn Mudstone Poor Ixkn Ø Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Lt Char- Grn/Lt Blue (w/Pyr & Fos Includ) No Odor No Stn No Flor NS

Dolo Wht-Lt Gry FxIn-MicroxIn Mudstone Poor Ixln Ø Ls Crm-Wht FxIn-MicroxIn Mudstone Poor Ixkn Ø Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Lt Char- Grn/Lt Blue (w/Pyr& Fos Includ) No Odor No Stn No Flor NS

Dolo Wht-Lt Gry-Tan FxIn-MicroxIn Mudstone Poor Ixln Ø Ls Crm-Wht FxIn-MicroxIn Mudstone Poor Ixkn Ø Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Char-Lt Char- Drk Gry (w/Pyr Includ) No Odor No Stn No Flor NS

Mudco Ck @ 6070' @  
8:00 AM 3/30/19  
Vis= 57;  
WT= 9.3+#;  
PV= 15;  
YP= 16;  
WL= 9.6;  
Cake= 1;  
Chl= 5,000;  
Cal = 80;  
Sol= 6.8%;  
LCM= 8#;  
DMC=\$ 123.59  
CMC=\$19,247.00.

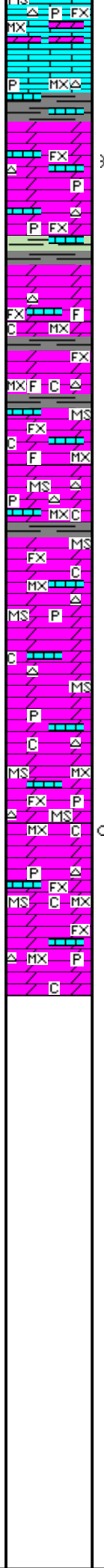
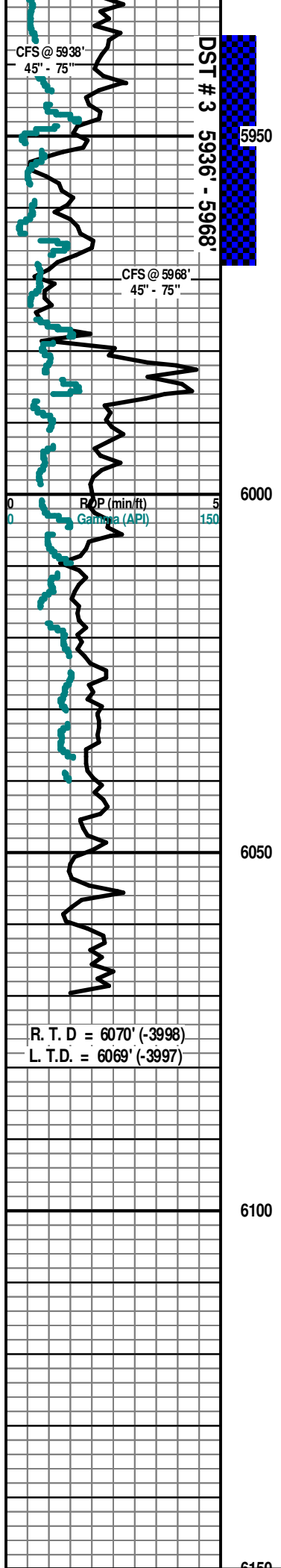
Dolo Tan-Lt Gry-Wht FxIn Mudstone Poor Ixln Ø Ls Crm-Wht FxIn-MicroxIn Mudstone Poor Ixkn Ø (Dec) Cht Wht-Gry Op Shp Vit Chalky Sh Char-Lt Char- Drk Gry-Grn/Aqua (w/Pyr Includ) No Odor No Stn No Flor NS

45" CFS @ 6070' Dolo Tan-Lt Brn-Wht FxIn Grainstone Fair Ixln Ø Ls Crm-Wht FxIn-MicroxIn Mudstone Poor Ixkn Ø (Tr Only) Cht Smoky Gry-Wht Translu-Op Shp Conchoidal Frac Vit Chalky Sh Char-Lt Char- Drk Gry-Grn/Aqua (w/Pyr Includ) Faint ? Odor No Stn No Flor NS

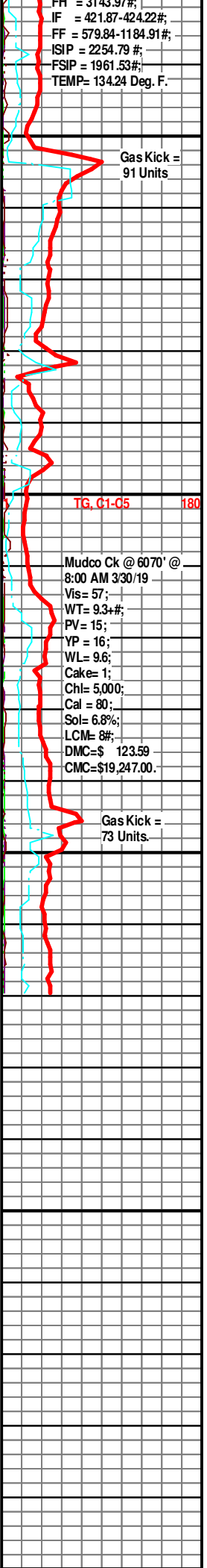
Gas Kick = 73 Units.

75" CFS @ 6070' Dolo Lt Bm-Tan-Wht FxIn Sucrosic Grainstone Fair Ixln Ø Ls Crm-Wht FxIn-MicroxIn Mudstone Poor Ixkn Ø (Tr Only) Cht Smoky Gry-Wht Translu-Op Shp Conchoidal Frac Vit Chalky Sh Char-Lt Char- Drk Gry-Grn/Aqua (w/Pyr Includ) Faint ? Odor No Stn No Flor NS

Electric Logs Run By Weatherford Logging:  
Compact Photo Density Compensated Neutron; Array Induction Shallow Focused & Microresistivity and Caliper.



Log descriptions and lithology details for the VIOLA 5948' (-3876) well, including CFS logs and lithological notes.



# Mid-Continent Conductor, LLC

# Invoice

PO Box 1105 Woodward, OK 73802

Phone: (580)254-5400

Fax: (877)691-5044

Date	Invoice #
3/20/2019	6880

Bill To
McCoy Petroleum Corp. 9342 E. Central Wichita, KS 67206

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Scott Hampel	Net 30	3/20/2019	Long Ranch, Comanche Cnty, KS	Sterling Rig

Item	Quantity	Description
Conductor Hole	116	Drilled 116 ft. conductor hole
20 inch pipe	116	Furnished 116 ft. of 20 inch conductor pipe.
Cellar Hole	1	Drilled 6x6 cellar hole
6x6 Tinhorn	1	Furnished and set 6x6 tinhorn.
Mud and Water	1	Furnished mud and water.
Transport Truck - Conductor	1	Transport mud and water to location.
Grout and Trucking TP	14	Furnished grout and trucking to location.
Grout Pump	1	Furnished grout pump
Safety Netting*	1	Furnished and set safety netting around conductor holes.
Welder and Materials	1	Furnished welder and materials
Dirt Removal	1	Furnished labor and equipment for dirt removal
20" Cover Plates	1	Furnished 20 inch cover plate.
Permits	1	Permits.

<b>Subtotal</b>	0
<b>Sales Tax (6.5%)</b>	8
<b>Total</b>	\$



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002661	1718	03/25/2019
INVOICE NUMBER			
92936144			

Pratt (620) 672-1201  
 B MC COY PETROLEUM CORP  
 I PO Box: 39  
 L SPIVEY  
 L KS US 67142  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Long Ranch A #1-8  
 O LOCATION  
 B COUNTY Comanche  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 E JOB CONTACT

RECEIVED APR 03 2019

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41167169			Net - 30 days	04/24/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/22/2019 to 03/22/2019</i>				
0041167169				
171817699A Cement-New Well Casing/Pi 03/22/2019				
13 3/8" Surface Casing				
Common Cement	275.00	EA		
518 Lb. - Calcium Chloride	1.00	LB		
69 Lb. - Celloflake	1.00	LB		
60 Miles - Unit Mileage Chg	1.00	MI		
120 Miles - Heavy Equipment Mileage	1.00	MI		
777 Tr/Mi-Proppant & Bulk Del. Chgs.	1.00	EA		
Blending & Mixing Service Charge	275.00	BAG		
"Service Supervisor, first 8 hrs on loc.	1.00	EA		
Depth Charge; 0-500'	1.00	EA		

PLEASE REMIT TO: SEND OTHER CORRESPONDENCE TO:  
 BASIC ENERGY SERVICES, LP BASIC ENERGY SERVICES, LP SUB TOTAL  
 PO BOX 841903 801 CHERRY ST, STE 2100 TAX  
 DALLAS, TX 75284-1903 FORT WORTH, TX 76102 INVOICE TOTAL

*DC*



## TREATMENT REPORT

Customer: <u>McCoy Petroleum Corp</u>		Lease No. _____	Date: <u>3/22/2019</u>		
Lease: <u>Long Run A</u>		Well #: <u>1-8</u>			
Field Order #: <u>17649</u>	Station: <u>PRG11KS</u>	Casing: <u>13 3/4</u>	Depth: <u>249</u>	County: <u>Comanche</u>	State: <u>KS</u>
Type Job: <u>242/13 3/4 Surface</u>	Formation: <u>TD-252</u>		Legal Description: <u>8-325-19w</u>		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<u>13 3/8</u>							
Depth: <u>249</u>	Depth	From	To	Pre Pad	Max		5 Min.
Volume: <u>39</u>	Volume	From	To	Pad	Min		10 Min.
Max Press	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: <u>Water</u>	Gas Volume		Total Load

Customer Representative: Lenny Seiger      Station Manager: Justin Westerman      Treater: Darin Franklin

Service Units	<u>92911</u>	<u>78982</u>	<u>19843</u>	<u>19959</u>	<u>19918</u>				
Driver Names	<u>Darin</u>	<u>Brett</u>	<u>Brett</u>	<u>CS11</u>	<u>CS11</u>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
------	-----------------	-----------------	--------------	------	-------------

<u>12:00pm</u>					<u>On location / safety meeting</u>
					<u>275 sck common cement</u>
					<u>2% calcium chloride, 1/4# cellophane</u>
					<u>14.8 pps, 1.34 v. 1.8, 6.33 water</u>
<u>3:00pm</u>	<u>200</u>		<u>3</u>	<u>5</u>	<u>Pump 3 bbls water</u>
	<u>200</u>		<u>66</u>	<u>5</u>	<u>mix 275 sck cement</u>
<u>3:30</u>	<u>200</u>		<u>36</u>	<u>5</u>	<u>Displace water</u>
<u>3:30pm</u>					<u>Shut in</u>
					<u>Cement did circulate - 10 bbls</u>

Job Complex / DSindcrew  
Thank you!!



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

Time = 1/2

FIELD SERVICE TICKET

1718 17699 A

8-325-19W

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 3/22/2019		DISTRICT: Pratt, KS		NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:	
CUSTOMER: McCoy Petroleum Corp.				LEASE: Long Ranch A				WELL NO. 1-8		
ADDRESS:				COUNTY: Comanche		STATE: KS				
CITY:				STATE:		SERVICE CREW: Derin, Bieth, Carl				
AUTHORIZED BY:				JOB TYPE: 242/13 3/8 SUI 19cc						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME	
19843	1/2						3/21	AM	9:30	
19918	1/4						3/22	AM	12:00	
							3/22	AM	3:00	
							3/22	AM	3:30	
							3/22	AM	3:45	
						MILES FROM STATION TO WELL	64			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *James S. Salgado*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100c	Common Cement	SK	275		
CC109	Calcium Chloride	Lb	518		
CC102	Cellofiske	Lb	69		
E100	Unit + mileage Charge - Pickups, Smalls, CCs	mi	60		
E101	Heavy Equipment Mileage	mi	120		
E113	Proppant gas Bulk Delivery Charges, Primic	ton	777		
CE200	Depth Charge 10 sec	4hr	1		
CE240	Blending & Mixing Service Charge	SK	275		
S003	Service Supervisor, First 8 hrs on Loc	FS	1		

SUB TOTAL

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

Discarded TOTAL  
JLW

SERVICE REPRESENTATIVE: <i>J. Allen ...</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>James S. Salgado</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
---	--

FIELD SERVICE ORDER NO.



RECEIVED APR 03 2019

PAGE 1 of 1	CUST NO 1002661	YARD # 1718	INVOICE DATE 03/25/2019
INVOICE NUMBER <b>92936152</b>			

Pratt (620) 672-1201  
 B MC COY PETROLEUM CORP  
 I PO Box: 39  
 L SPIVEY  
 L KS US 67142  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME LONG RANDCH A 1-8  
 O LOCATION  
 B COUNTY COMANCHE  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41167348	19843		Net - 30 days	04/24/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/23/2019 to 03/23/2019</i>				
0041167348				
171817700A Cement-New Well Casing/Pi 03/23/2019				
8 5/8" INTERMEDIATE CASING				
A-Con Blend	180.00	EA		
Common Cernent	150.00	EA		
622 LBS Calcium Chloride	1.00	LB		
83 LBS Celloflake	1.00	LB		
Guide Shoe - Regular, 8 5/8" (Blue)	1.00	EA		
Flapper Type Insert Float Valves. 8 5/8"	1.00	EA		
Top Rubber Cement Plug, 8 5/8"	1.00	EA		
Centralizer, 8 5/8" (Blue)	5.00	EA		
8 5/8" Basket (Blue)	1.00	EA		
60 Light Vehicle Mileage	1.00	MI		
120 Heavy Equipment Mileage	1.00	MI		
Proppant and Bulk Delivery Charges	1.00	MI		
Depth Charge, 0'-1000'	1.00	HR		
Blending & Mixing Service Charge	330.00	SK		
Plug Container Utilization Charge	1.00	EA		
Service Supervisor	1.00	HR		

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL
DALLAS, TX 75284-1903	FORT WORTH, TX 76102	

Doc





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

*Jim 11:30*  
10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 17700 A

*8-325-19W*

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <i>3/23/2018</i> DISTRICT <i>P198d1r1</i>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <i>Mcloy Petroleum Corp.</i>		LEASE <i>Long Ranch A</i>		WELL NO. <i>1-8</i>					
ADDRESS		COUNTY <i>Comanche</i>		STATE <i>KS</i>					
CITY STATE		SERVICE CREW <i>Darin, Brian, Pennis</i>							
AUTHORIZED BY		JOB TYPE: <i>242/85/8 Injomed, SW</i>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<i>19843</i>	<i>3/4</i>						<i>3/22</i>	<i>AM</i>	<i>7:30</i>
<i>19862-19918</i>	<i>1/2</i>					ARRIVED AT JOB	<i>3/22</i>	<i>AM</i>	<i>11:30</i>
						START OPERATION	<i>3/23</i>	<i>AM</i>	<i>2:00</i>
						FINISH OPERATION	<i>3/23</i>	<i>AM</i>	<i>2:45</i>
						RELEASED	<i>3/23</i>	<i>AM</i>	<i>3:00</i>
						MILES FROM STATION TO WELL	<i>64</i>		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Yancy D. Salinger*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP10	D-con Blend Common	SK	180		0
CP100C	Common Cement	SK	150		0
CC109	Calcium Chloride	Lb	622		0
CC102	CelloPiske	Lb	83		0
CF253	Guide Shoe-Resin 8 5/8 (Blue)	ES	1		0
CF1453	Flapper Type Insert Flost US 8 5/8	ES	1		0
CF105	JCP Rubber Cement Plug, 8 5/8	ES	1		0
CF1753	Centrifuge 8 5/8 (Blue)	ES	5		0
CF1903	8 5/8 Basker (Blue)	ES	1		0
F100	Unit mileage charge - Pick up, Smellville to well	M	60		0
F101	Mesox Equipment mileage	M	120		0
F113	Proppant 900 Bulk Delivery charge <sup>portion</sup>	T/100	933		0
CF201	Depth Charge, 501-1,000'	Ltr	1		0
CF240	Blending & mixing Service Charge	SK	330		0
CF504	Plus contractor utilization Charge	Job	1		0
5003	Service Supervisor, first 8 hours	ES	1		0

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

*Psecure* TOTAL  
*JWW*

SERVICE REPRESENTATIVE <i>Chris Finner</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Yancy D. Salinger</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO.

Customer Theodor Petroleum Co. Inc		Lease No.		Date 3/23/2019	
Lease Long Ranch 12		Well # 1-8			
Field Order # 17100	Station P192115	Casing 8 5/8	Depth 731	County Comanche	State KS
Type Job 242/856 Intermediate			Formation TD-736	Legal Description 8-325-100	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
8 5/8							
Depth 731	Depth	From	To	Pre Pad	Max		5 Min.
Volume 46.3	Volume	From	To	Pad	Min		10 Min.
Max Press 600	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 685	Packer Depth	From	To	Flush W910	Gas Volume		Total Load

Customer Representative Lenny Sologoc	Station Manager Justin Westerman	Treater Darin Fienke
Service Units 92511 78902 19843 99519 19862		
Driver Names Darin Brock Brock Fennis Fennis		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:30 am					on location / school meeting
					180 SIC A-con Blend, 30% CC, 1/4 HCP
					12.5 pps, 2.17 vels, 12.28 wels
					150 SIC Common, 20% CC, 1/4 HCP
2:15 pm	300		3	6	PUMP 3 bbls w 910
	300		70	6	mix 180 SIC A-con
	300		36	6	mix 150 SIC common
					Shut down
					Release Plus
	200		0	5	SIC dispicomen
	200		33	3	Slow Rate
2:16 pm	600		43	3	Bump Plus
					Fluct - Hold
					Cement in Circulation - 10 bbls
					Job Complete / Derris crew
					Thank you!!!



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002661	1718	04/01/2019
INVOICE NUMBER			
92941733			

Pratt (620) 672-1201  
 B MC COY PETROLEUM CORP  
 I PO Box: 39  
 L SPIVEY  
 L KS US 67142  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME LONG RANCH A 1-8  
 O LOCATION  
 B COUNTY COMANCHE  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41168403	19843		Net - 30 days	05/01/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/31/2019 to 03/31/2019</i>				
0041168403				
171817790A Cement-New Well Casing/Pi 03/31/2019				
<b>PLUG TO ABANDON</b>				
60/40 Poz	200.00	SK		0
375 LBS Cement Gel	1.00	LB		0
60 Lght Vehicle Mileage	1.00	MI		0
120 Heavy Equipment Mileage	1.00	MI		0
Proppant and Bulk Delivery Charges	1.00	MI		0
Depth Charge, 1001'-2000'	1.00	HR		0
Blending & Mixing Service Charge	200.00	SK		7
Service Supervisor	1.00	HR		3

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	6
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	1
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

*DOC*

Customer <i>McCoy Petroleum</i>		Lease No.		Date <i>3-31-2019</i>	
Lease <i>Long Branch A</i>		Well # <i>1-8</i>			
Field Order # <i>1</i>	Station <i>Pratt KS #1715</i>	Casing <i>5 9/8</i>	Depth <i>730'</i>	County <i>Comanche</i>	State
Type Job <i>Plug to Abandon</i>			Formation	Legal Description <i>S-25-19W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>3 1/2</i>	<i>10 5/8</i>	From	To	Pre Pad		Max		5 Min.
Depth <i>730</i>	Depth <i>1050</i>	From	To	Pad		Min		10 Min.
Volume	Volume	From	To	Frac		Avg		15 Min.
Max Press	Max Press	From	To			HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush		Gas Volume		Total Load
Plug Depth	Packer Depth	From	To					

Customer Representative <i>Lynn Salcan</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Carl Taylor</i>
--	---	----------------------------

Service Units	<i>78952</i>	<i>19843</i>	<i>84591</i>	<i>73718</i>					
Driver Names	<i>B.H.B</i>	<i>T.J.S.C</i>	<i>D</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					on location - Rig out 6:45 PM
					1 <sup>st</sup> plug 1050'
<i>9:00 PM</i>	<i>300</i>		<i>20</i>		Runa Freshwater spacer
	<i>200</i>		<i>12.73</i>		Run 50 st Cement
	<i>100</i>		<i>8.5</i>		Temp Displacement
					2 <sup>nd</sup> Plug 300'
<i>10:00</i>	<i>100</i>		<i>17.92</i>		Runa 70 st Cement
			<i>1</i>		Displ 10 Bbls
					3 <sup>rd</sup> Plug 60'
			<i>7.64</i>		Runa 50 st Cement
					Pat 4ble 30
			<i>7.64</i>		Mouse 4ble 20
			<i>5.19</i>		
					Finish 10:30 PM





**BASIC**<sup>SM</sup>  
ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

**FIELD SERVICE TICKET**

1718 17790 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

*total man has 28*

DATE OF JOB <b>3-31-19</b> DISTRICT <b>Pratt, KS.</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO. _____				
CUSTOMER <b>McCoy Petroleum</b>		LEASE <b>Long Ranch A</b> WELL NO. <b>1-8</b>				
ADDRESS _____		COUNTY <b>Commanche</b> STATE <b>Ks.</b>				
CITY _____ STATE _____		SERVICE CREW <b>Art B, Brett B, Jose D</b>				
AUTHORIZED BY _____		JOB TYPE: <b>Plug to Abandon 2-42</b>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>3-31-19</b> DATE <b>3-31-19</b> AM/PM <b>5:00</b> TIME <b>5:00</b>
<b>78982-98543</b>	<b>1</b>					ARRIVED AT JOB AM/PM <b>6:45</b>
<b>84891-73768</b>	<b>0.5</b>					START OPERATION AM/PM <b>9:00</b>
						FINISH OPERATION AM/PM <b>10:30</b>
						RELEASED AM/PM <b>10:45</b>
						MILES FROM STATION TO WELL _____

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60:40:202	SX	200		
CC 200	Cement Gel	Lb	376		
E 100	light vehicle mileage	Mi	60		
E 101	Heavy Equipment Mileage	Mi	130		
E 113	Bulk Delivery Charge per ton mile	TA	9.4		
E 202	4 hrs Depth Charge 1001'-2000'	Hrs	1		
E 240	Bleeding & Mixing Charge	SX	200		
S003	Service Supervisor Charge	ea	1		

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	% TAX ON \$	
MATERIALS	% TAX ON \$	
TOTAL		<b>5</b>

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

CLQJID LITHIO - Abilene, TX