

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

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

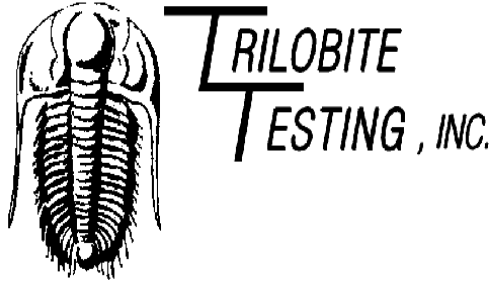
1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted 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)</i> <i>(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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DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E Central
Wichita, KS 67206

ATTN: Dave Williams

Koehn F #1-29

29-29s-31w Haskell,KS

Start Date: 2019.11.08 @ 04:35:00

End Date: 2019.11.08 @ 14:14:55

Job Ticket #: 47662 DST #: 1

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

Printed: 2019.11.13 @ 09:40:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.

29-29s-31w Haskell, KS

9342 E Central
Wichita, KS 67206

Koehn F #1-29

Job Ticket: 47662

DST#: 1

ATTN: Dave Williams

Test Start: 2019.11.08 @ 04:35:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 2862.00 ft (KB)

Time Tool Opened: 07:38:40

Time Test Ended: 14:14:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4761.00 ft (KB) To 4815.00 ft (KB) (TVD)

Reference Elevations: 2862.00 ft (KB)

Total Depth: 4815.00 ft (KB) (TVD)

2851.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 50.07 psig @ 4763.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.08

End Date:

2019.11.08

Last Calib.:

2019.11.08

Start Time: 04:35:02

End Time:

14:14:55

Time On Btm:

2019.11.08 @ 07:38:20

Time Off Btm:

2019.11.08 @ 11:53:30

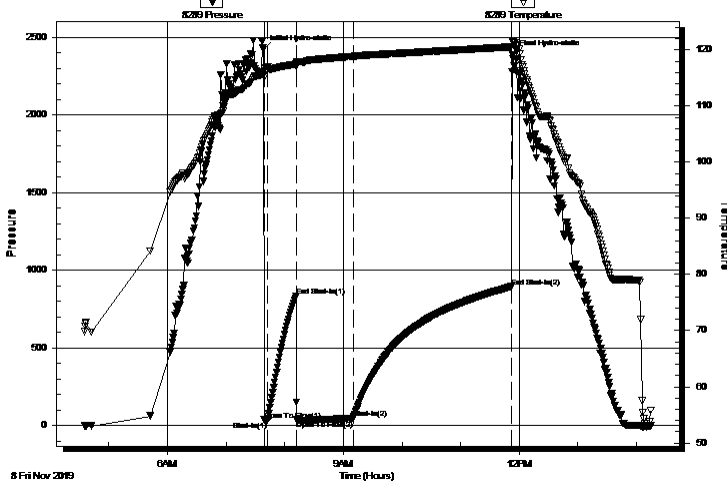
TEST COMMENT: IF: Stong building blow , 10.2"

IS: No blow back

FF: BOB ASAO, strong building blow , 131.25"

FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2420.98	116.05	Initial Hydro-static
1	37.18	115.15	Open To Flow (1)
4	27.35	117.11	Shut-In(1)
34	834.16	117.48	End Shut-In(1)
34	37.10	117.75	Open To Flow (2)
92	50.07	118.87	Shut-In(2)
254	894.88	120.55	End Shut-In(2)
256	2386.48	121.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	gassy oily mud 10%G,5%O,85%M	0.44
0.00	2174' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp.

29-29s-31w Haskell, KS

9342 E Central
Wichita, KS 67206

Koehn F #1-29

Job Ticket: 47662

DST#: 1

ATTN: Dave Williams

Test Start: 2019.11.08 @ 04:35:00

Tool Information

Drill Pipe:	Length: 4528.00 ft	Diameter: 3.80 inches	Volume: 63.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 211.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 64.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4761.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	81.00 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			4739.00	
Hydraulic tool	5.00			4744.00	
Jars	5.00			4749.00	
Safety Joint	3.00			4752.00	
Packer	5.00			4757.00	27.00 Bottom Of Top Packer
Packer	4.00			4761.00	
Stubb	1.00			4762.00	
Perforations	1.00			4763.00	
Recorder	0.00	8289	Inside	4763.00	
Recorder	0.00	6672	Outside	4763.00	
Perforations	15.00			4778.00	
Change Over Sub	1.00			4779.00	
Drill Pipe	32.00			4811.00	
Change Over Sub	1.00			4812.00	
Bullnose	3.00			4815.00	54.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.

29-29s-31w Haskell,KS

9342 E Central
Wichita, KS 67206

Koehn F #1-29

Job Ticket: 47662

DST#: 1

ATTN: Dave Williams

Test Start: 2019.11.08 @ 04:35:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	gassy oily mud 10%G,5%O,85%M	0.443
0.00	2174' GIP	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2174' GIP

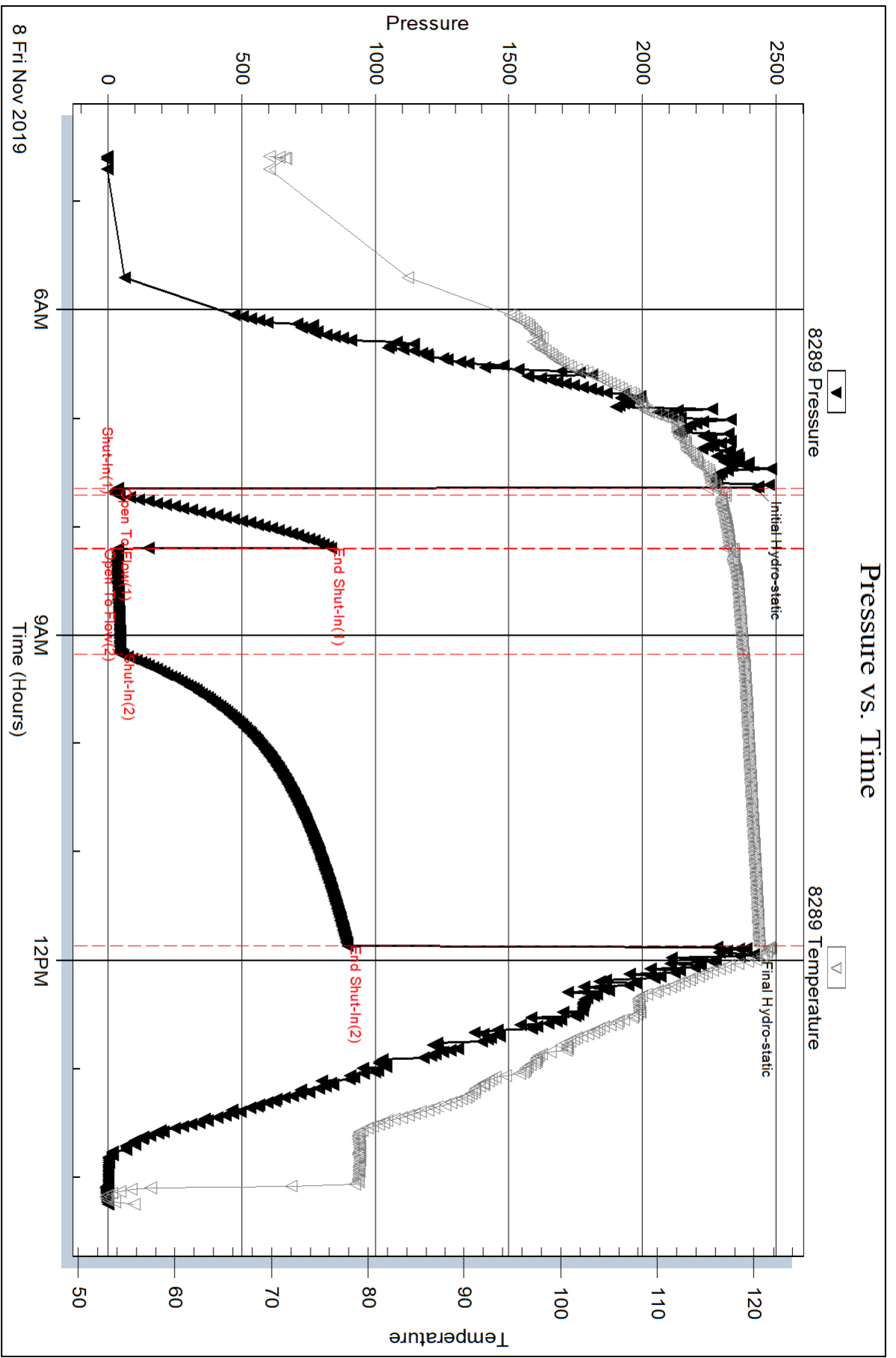
Serial #: 8289

Inside

McCoy Petroleum Corp.

Koehn F#1-29

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 47662

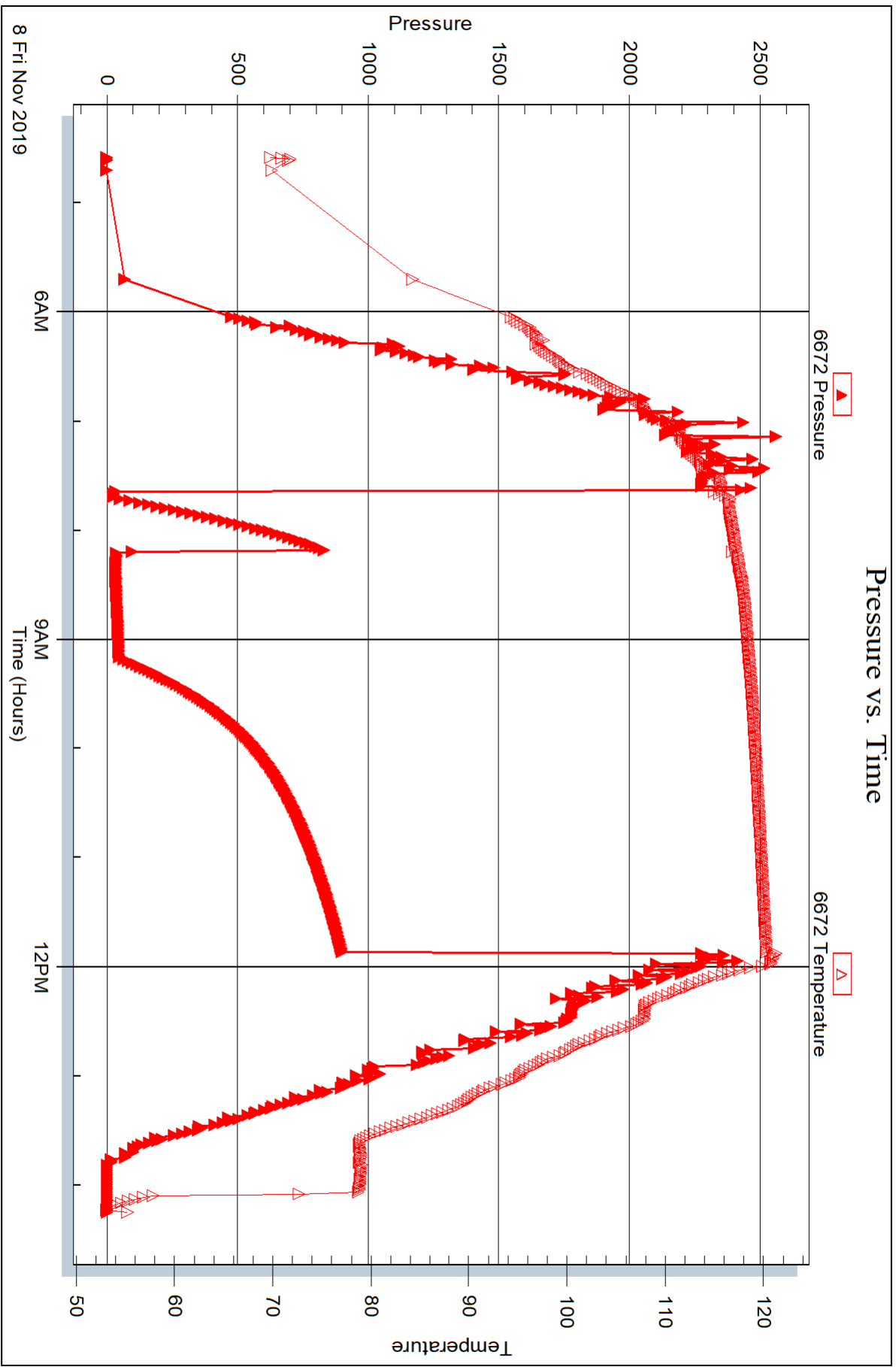
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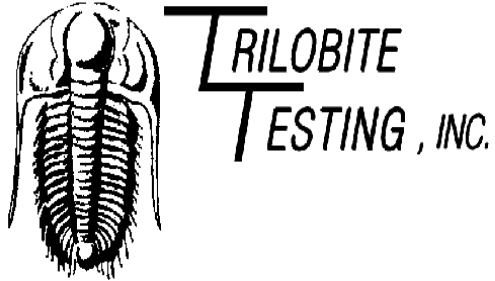
Serial #: 6672

Outside McCoy Petroleum Corp.

Koehn F#1-29

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E Central
Wichita, KS 67206

ATTN: Dave Williams

Koehn F #1-29

29-29s-31w Haskell,KS

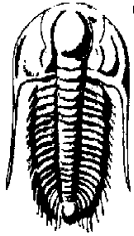
Start Date: 2019.11.09 @ 18:52:00

End Date: 2019.11.10 @ 04:11:40

Job Ticket #: 47663 DST #: 2

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

Printed: 2019.11.13 @ 09:38:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.

29-29s-31w Haskell, KS

9342 E Central
Wichita, KS 67206

Koehn F #1-29

Job Ticket: 47663

DST#: 2

ATTN: Dave Williams

Test Start: 2019.11.09 @ 18:52:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: 2862.00 ft (KB)

Time Tool Opened: 21:45:05

Time Test Ended: 04:11:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 5182.00 ft (KB) To 5261.00 ft (KB) (TVD)

Reference Elevations: 2862.00 ft (KB)

Total Depth: 5261.00 ft (KB) (TVD)

2851.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 24.46 psig @ 5184.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.09

End Date:

2019.11.10

Last Calib.:

2019.11.09

Start Time:

18:52:02

End Time:

04:11:40

Time On Btm:

2019.11.09 @ 21:44:45

Time Off Btm:

2019.11.10 @ 01:50:00

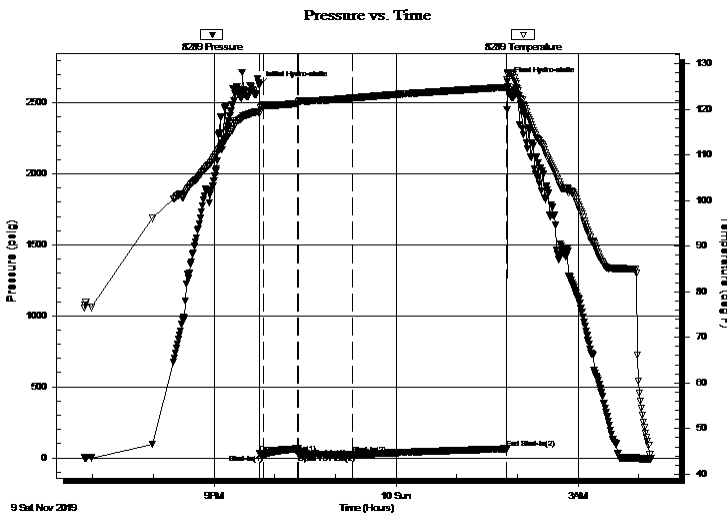
TEST COMMENT: IF: Weak surface blow, 1.1"

IS: No blow back

FF: Weak surface blow, 1.1", died

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2625.09	119.21	Initial Hydro-static
1	31.75	119.14	Open To Flow (1)
5	22.94	120.99	Shut-In(1)
38	64.80	121.29	End Shut-In(1)
39	22.81	121.33	Open To Flow (2)
93	24.46	122.51	Shut-In(2)
245	63.61	124.85	End Shut-In(2)
246	2648.82	127.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp.

29-29s-31w Haskell, KS

9342 E Central
Wichita, KS 67206

Koehn F #1-29

Job Ticket: 47663

DST#: 2

ATTN: Dave Williams

Test Start: 2019.11.09 @ 18:52:00

Tool Information

Drill Pipe:	Length: 4975.00 ft	Diameter: 3.80 inches	Volume: 69.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 211.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 100000.0 lb
			Total Volume: 70.83 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5182.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	106.00 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			5160.00	
Hydraulic tool	5.00			5165.00	
Jars	5.00			5170.00	
Safety Joint	3.00			5173.00	
Packer	5.00			5178.00	27.00 Bottom Of Top Packer
Packer	4.00			5182.00	
Stubb	1.00			5183.00	
Perforations	1.00			5184.00	
Recorder	0.00	8289	Inside	5184.00	
Recorder	0.00	6672	Outside	5184.00	
Perforations	9.00			5193.00	
Change Over Sub	1.00			5194.00	
Drill Pipe	63.00			5257.00	
Change Over Sub	1.00			5258.00	
Bullnose	3.00			5261.00	79.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.

29-29s-31w Haskell, KS

9342 E Central
Wichita, KS 67206

Koehn F #1-29

Job Ticket: 47663

DST#: 2

ATTN: Dave Williams

Test Start: 2019.11.09 @ 18:52:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

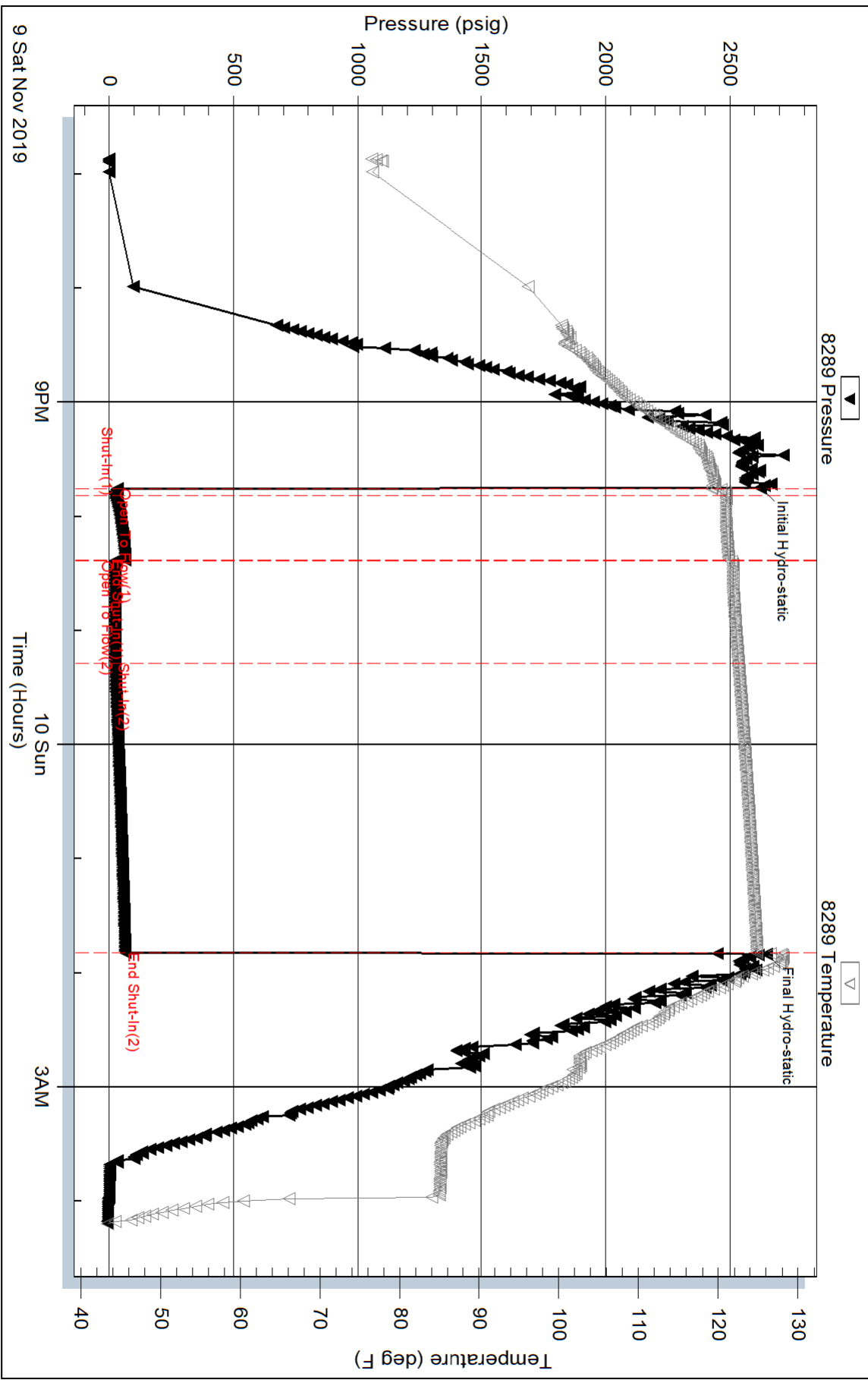
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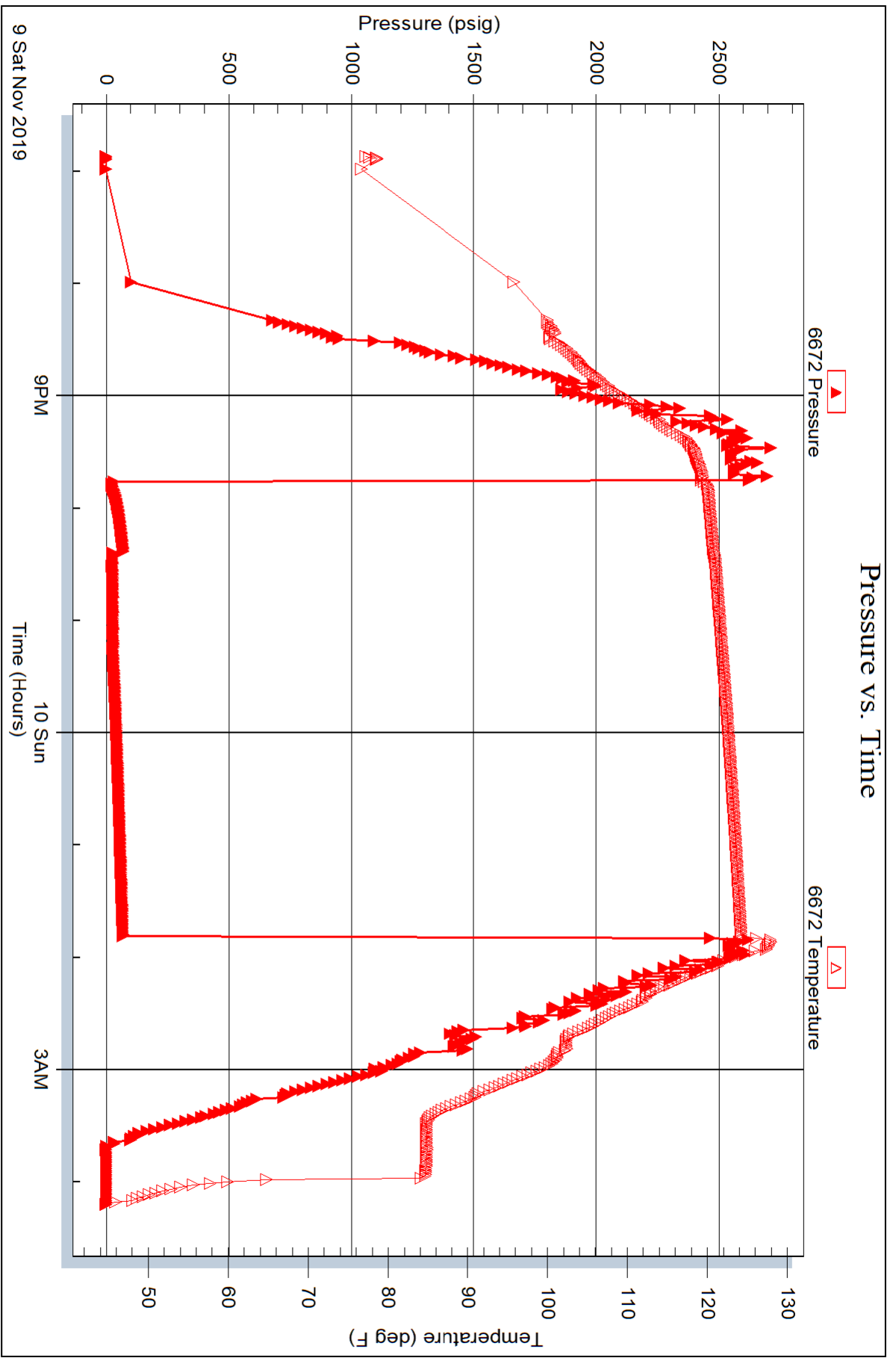
Laboratory Name:

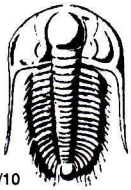
Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47662

4/10

Well Name & No. Koehn F 1-29 Test No. 1 Date 11-8-19
 Company McCoy Petroleum Corp. Elevation 2862 KB 2851 GL
 Address 9342 E Central Wichita, KS 67206
 Co. Rep / Geo. Dave Williams Rig Starling #5
 Location: Sec. 29 Twp. 29 Rge. 31 Co. Haskell State KS

Interval Tested 4761-4815 Zone Tested Morrison
 Anchor Length 54' Drill Pipe Run 4528 Mud Wt. 9.2
 Top Packer Depth 4756 Drill Collars Run 211 Vis 49
 Bottom Packer Depth 4761 Wt. Pipe Run N.A. WL 9.2
 Total Depth 4815 Chlorides 4800 ppm System LCM 2#

Blow Description IF: Strong building blow, 10.2 inches
ISL: No blow back
FF: BOB ASAO, strong building blow, 131.25 inches
FSL: No blow back

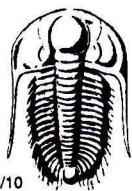
Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>gassy oily mud</u>	<u>10</u>	<u>5</u>		<u>85</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>2174' GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90 BHT 120 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2421 Test CONV. 1300 T-On Location 0300
 (B) First Initial Flow 37 Jars 250 T-Started 0500
 (C) First Final Flow 27 Safety Joint 75 T-Open 0738
 (D) Initial Shut-In 834 Circ Sub _____ T-Pulled 1151
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 1400
 (F) Second Final Flow 50 Mileage 90 90 Comments bits on @ 0435
 (G) Final Shut-In 895 Sampler _____
 (H) Final Hydrostatic 2386 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 3 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1715
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 150 Sub Total 1715

Approved By Dave P. Williams 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47663

Well Name & No. Koehn F 1-29 Test No. 2 Date 10-9-19
 Company McCoy Petroleum Corp. Elevation 2062 KB 2851 GL
 Address 9342 E Central Wichita, KS 67206
 Co. Rep / Geo. Dave Williams Rig Sterling #5
 Location: Sec. 29 Twp. 29 Rge. 31 Co. Haskell State KS

Interval Tested S182-5261 Zone Tested M.S.S.
 Anchor Length 79' Drill Pipe Run 4975 Mud Wt. 9.15
 Top Packer Depth 5177 Drill Collars Run 211 Vis 50
 Bottom Packer Depth 5182 Wt. Pipe Run N.A. WL 7.2
 Total Depth 5261 Chlorides 4600 ppm System LCM 3#

Blow Description IF: Weak surface blow, 1.1 inches
ISI: No blow back
FP: Weak surface blow, 1.1 inches, dried
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>S</u>	<u>Mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total S BHT 125 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2625 Test CONV. 1400 T-On Location 1830
 (B) First Initial Flow ~~35~~ 32 Jars 250 T-Started 1930
 (C) First Final Flow ~~32~~ 23 Safety Joint 75 T-Open 2143
 (D) Initial Shut-In ~~63~~ 65 Circ Sub _____ T-Pulled 0146
 (E) Second Initial Flow ~~25~~ 23 Hourly Standby _____ T-Out _____
 (F) Second Final Flow ~~23~~ 24 Mileage 90 Comments lets on @ 1852
 (G) Final Shut-In ~~64~~ 64 Sampler _____
 (H) Final Hydrostatic 2649 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1815
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1815

Approved By David P. Williams 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.

SAMPLE TOPS

McCoy Petroleum Corp.
Koehn "F" #1-29
NW SW NE
1650'FNL & 2310'FEL
Sec 29-29s-31w
Haskell County. KS
API#: 15-081-22201-0000
KB: 2862'

	Depth	Datum
Base/Anhy	XXXX	+XXXX
Heebner	4145	-1283
Lansing	4201	-1339
Lansing G	4408	-1546
Iola	4496	-1634
Stark	4636	-1774
Marmaton	4747	-1885
Pawnee	4886	-2024
Ft Scott	4920	-2058
Atoka	5146	-2284
Morrow Sh.	5191	-2329
Chester	5232	-2370
St. Genevieve	5412	-2550
St. Louis	5578	-2716
RTD	5700	-2838

LOG TOPS

McCoy Petroleum Corp.
Koehn "F" #1-29
NW SW NE
1650'FNL & 2310'FEL
Sec 29-29s-31w
Haskell County. KS
API#: 15-081-22201-0000
KB: 2862'

	Depth	Datum
Base/Anhy	XXXX	+XXXX
Heebner	4143	-1281
Lansing	4201	-1339
Lansing G	4408	-1546
Iola	4476	-1614
Stark	4637	-1775
Marmaton	4788	-1926
Pawnee	4887	-2025
Ft Scott	4920	-2058
Atoka	5147	-2285
Morrow Sh.	5186	-2324
Chester	5193	-2331
St. Genevieve	5412	-2550
St. Louis	5507	-2645
LTD	5699	-2837

RECEIVED NOV 19 2019



PAGE 1 of 1	CUST NO 1002661	YARD # 1718	INVOICE DATE 11/13/2019
INVOICE NUMBER 93087321			

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 Koehn F 1-29
 O LOCATION
 B COUNTY Haskell
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41195322	19572		Net - 30 days	12/13/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 11/12/2019 to 11/12/2019				
0041195322				
171819795L Cement-New Well Casing/Pi 11/12/2019				
<i>PJA</i>				
60/40 Poz	180.00	SK		
Cement Gel	300.00	LB		
Heavy Equipment Mileage	80.00	MI		
Blending & Mixing Service Charge	180.00	SK		
Ton Mileage	310.00	MI		
Depth Charge, 1001'-2000'	1.00	HR		
Light Vehicle Mileage	40.00	MI		
Service Supervisor Charge	1.00	EA		
Driver Charge	2.00	EA		

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOT.	0
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	T.	9
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOT.	9
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

DC



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	McCoy Petroleum Corporation	Cement Pump No.:	37223 19572 12HRS	Operator TRK No.:	86531
Address:	9342 E. Cemtral	Ticket #:	1718 19795 L	Bulk TRK No.:	30463 14284 Oscar
City, State, Zip:	Wichita, Kansas 67206	Job Type:	Z-42 Cement Plug to Abandon		
Service District:	1718-Liberal KS	Well Type:	NEW		
Well Name and No.:	Koehn "F" 1-29	Well Location:	29,29,31	County:	Haskell
				State:	Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
60/40 Poz	180	4% Gel	30463 14284 Oscar	Front	Back
				Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	13.5	1.5	7.5	270	TT Man Hours:	38
Tail:					# of Men on Job:	3

Time (am/pm)	BPM	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
4:30am							Arrived at location
4:45am							Spot trucks/Rig up
8:30am							Safety meeting
9:00am	2	10			200		Pump 10bbls ahead of water
9:05am	3	13.3			200		Pump 13.3bbls of cement from 50sk at 13.5lbs
9:09am	3	22.9			200		Pump 22.9bbls of displacement
9:15am							Rig crew pulling drill pipe
9:55am	2	30			50		Pump 30bbls to circulate well
10:07am	4	10.6			150		Pump 10.6bbls of cement from 40sk at 13.5lbs
10:12am	4	7.4			120		Pump 7.4bbls of displacement
10:20am							Rig crew pulling drill pipe
10:53am		10.6					Pump 10.6bbls of cement from 40sk at 13.5lbs
							Cement to surface
11:19am		13.3					Pump Rat and Mouse hole with 13.3bbls from 50sk at 13.5lbs
							Rig down
							Job Completed
							Thanked company man and rig crew

Size Hole	7 7/8	Depth		TYPE		
Size & Wt. Csg.	8 5/8 24#	Depth	New / Used	1st Plug	1860	Depth
Drill Pipe	4 1/2 16.6#	Depth		2nd Plug	720	Depth
Max Psi	500	Type		3rd Plug	60	CIBP

Customer Signature: <i>[Signature]</i>	Basic Representative:	Victor A. Corona
	Basic Signature:	<i>[Signature]</i>
	Date of Service:	11/12/2019

RECEIVED NOV 13 2019



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002661	1718	11/04/2019
INVOICE NUMBER			
93081050			

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 Koehn F 1-29
 O LOCATION
 B COUNTY Haskell
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41194630	19919		Net - 30 days	12/04/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/03/2019 to 11/03/2019</i>				
0041194630				
171819812L Cement-New Well Casing/Pi 11/03/2019				
Cement Surface Casing				
A-Serv Lite	625.00	SK		
Class C Cement	200.00	SK		
Celloflake	207.00	LB		
Calcium Chloride	2,008.00	LB		
Depth Charge, 1001'-2000'	1.00	HR		
Light Vehicle Mileage	40.00	MI		
Heavy Equipment Mileage	160.00	MI		
Ton Mileage	1,464.00	MI		
Blending & Mixing Service Charge	825.00	SK		
Plug Container Utilization Charge	1.00	EA		
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)	4.00	EA		
Service Supervisor Charge	1.00	EA		
Driver Charge	3.00	EA		
Sugar	50.00	LB		

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



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	McCoy Petroleum Corporation	Cement Pump No.:	38117 19919 HRS	Operator TRK No.:	96816	
Address:	9342 E. Cemtral	Ticket #:	1718 19813 L	Bulk TRK No.:	37712 19883 Victor	19827 37725 Corey
City, State, Zip:	Wichita, Kansas 67206	Job Type:	Z-42 Cement Surface Casing			
Service District:	1718-Liberal KS	Well Type:	NEW			
Well Name and No.:	Koehn "F" # 1-29	Well Location:	29-29S-31W	County:	Haskell	State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
A Serv Lite	625	3% calcium chloride, +.25pps Celloflake	37712 19883 Victor	Front	Back
Class C Cement	200	2% Calcium chloride, +.25pps Celloflake	19827 37725 Corey	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	12.3	2.08	11.52	1300	TT Man Hours:	28
Tail:	14.8	1.34	6.33	268	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
0830							ON LOCATION -- SPOT AND RIG UP
1310							CASING ON BOTTOM -- BREAK CIRC
1315							SAFETY MEETING
1330					1500		PRESSURE TEST
1336	4	10			250		PUMP FRESH WATER SPACER
1339	5	232			200		MIX LEAD CEMENT @ 12.3 PPG
1423	5	48			100		MIX TAIL CEMENT @ 14.8 PPG
1434							SHUT DOWN -- DROP TOP PLUG
1437	5	0			100		START DISPLACEMENT
1457	1	94			450		SLOW RATE
1523		113.7			600-1100		BUMP PLUG
1537					800		FLOAT DID NOT HOLD -- SHUT IN HEAD
		50					CIRCULATE CEMENT TO THE PIT

Size Hole	12 1/4	Depth	1836		TYPE	
Size & Wt. Csg.	8.625 24#	Depth	1830.99	New / Used	NEW	Packer
tbg.		Depth	42.2	SHOE		Retainer
Top Plugs		Type				Perfs

Customer Signature: <i>Alm Lipton</i>	Basic Representative:	Kirby Harper
	Basic Signature:	
	Date of Service:	11/3/2019



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

Well Name: KOEHN "F" # 1 - 29
API: 15 - 081 - 22,201 - 00 - 00
Location: NW-SW-NE
License Number: 5003 (KCC) **Region:** Haskell
Spud Date: 11/01/2019 **Drilling Completed:** 11/11/2019
Surface Coordinates: 1650' FNL & 2310' FEL SEC. 29 - T. 29 S. - R. 31 W.

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2849' **K.B. Elevation (ft):** 2862'
Logged Interval (ft): 1832' **To:** 5699' **Total Depth (ft):** 5700'
Formation: MISSISSIPPIAN "ST. LOUIS"
Type of Drilling Fluid: Chemical/Polymer/Gel & Mud Displacement at 3485'

Printed by MudLog from WellSight Systems 1-800-447-1534 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:

Surface Casing: Spud at 6:30 pm on 11/01/19. Drilled 12-1/4" to 1836'. Ran 43 joints of new 24#, 8-5/8" casing. Tallied 1812.40' + 18.50 LJ + 1.00' shoe. Set at 1831.99' KB. Welded straps on bottom 3 joints, tacked collars on top 2 joints. Centralizers (4) on joints 1,3,5,7. Float insert in top of 1st collar. Rubber plug. Cemented with 625 sks A-Serv Lite; 3% CC, 1/4# CF and tailed with 200 sks Class C with 2% CC & 1/4# CF. Cement did circulate. Float did not hold. Plug down at 3:15 pm on 11/03/19. Basic Energies Cementing ticket #19813

Deviation Surveys Taken: @ 1836' = 1/4 degree. @ 4815' = 3 degrees; @ 5261' = 3 1/4 degrees; @ 5700' = 1 3/4 degrees.

DSTs

~~DST # 1~~ Interval: 4761'- 4815'. Times: 3"-30"-60"-150";
 Blow: IF=Strong/10". FF= BOB/Instant & Built to 131".
 Recovery: 2174' G.I.P. & 90' GOM (10% G; 5 % Oil & 85% Mud)
 Pressures: IH=2421#; FH=2386#; IF=37-27#; FF=37-50#;

ISIP= 834#; FSIP= 895#; Temp= 120 degrees F.

~~ DST #@ ~~ Interval: 5182-5261'. Times: 3"-30"-60"-150";
 Blow: IF=Weak Surface Blow 1.1"; FF= Weak Surface Blow 1.1" & Died. Recovery: 5' Drilling Mud. Pressures:
 IH=2525#;
 FH = 2649#; IF =32-23#; FF= 23-25#; ISIP=65#; FSIP=64#;
 Temp= 125 degrees F.

Comments

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.

WACKSTONE; 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.).


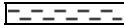

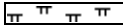
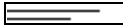
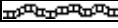




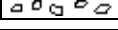




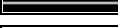

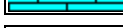
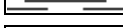
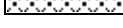



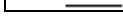
CRYSTALLINE CARBONATE; carbonate rock retaining to little of their depositional texture to be classified.

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

ACCESSORIES


















MINERAL






-  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
-  Grysh
-  Gyp
-  Ls
-  Mrst
-  Sltstrg

-  Ssstrg

TEXTURE

-  Boundst
-  Chalky
-  Cryxln
-  Earthy
-  Finexln
-  Grainst
-  Lithogr
-  Microxln
-  Mudst
-  Packst
-  Wackest

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

- Vuggy

- SORTING**
- Well
 - Moderate
 - Poor

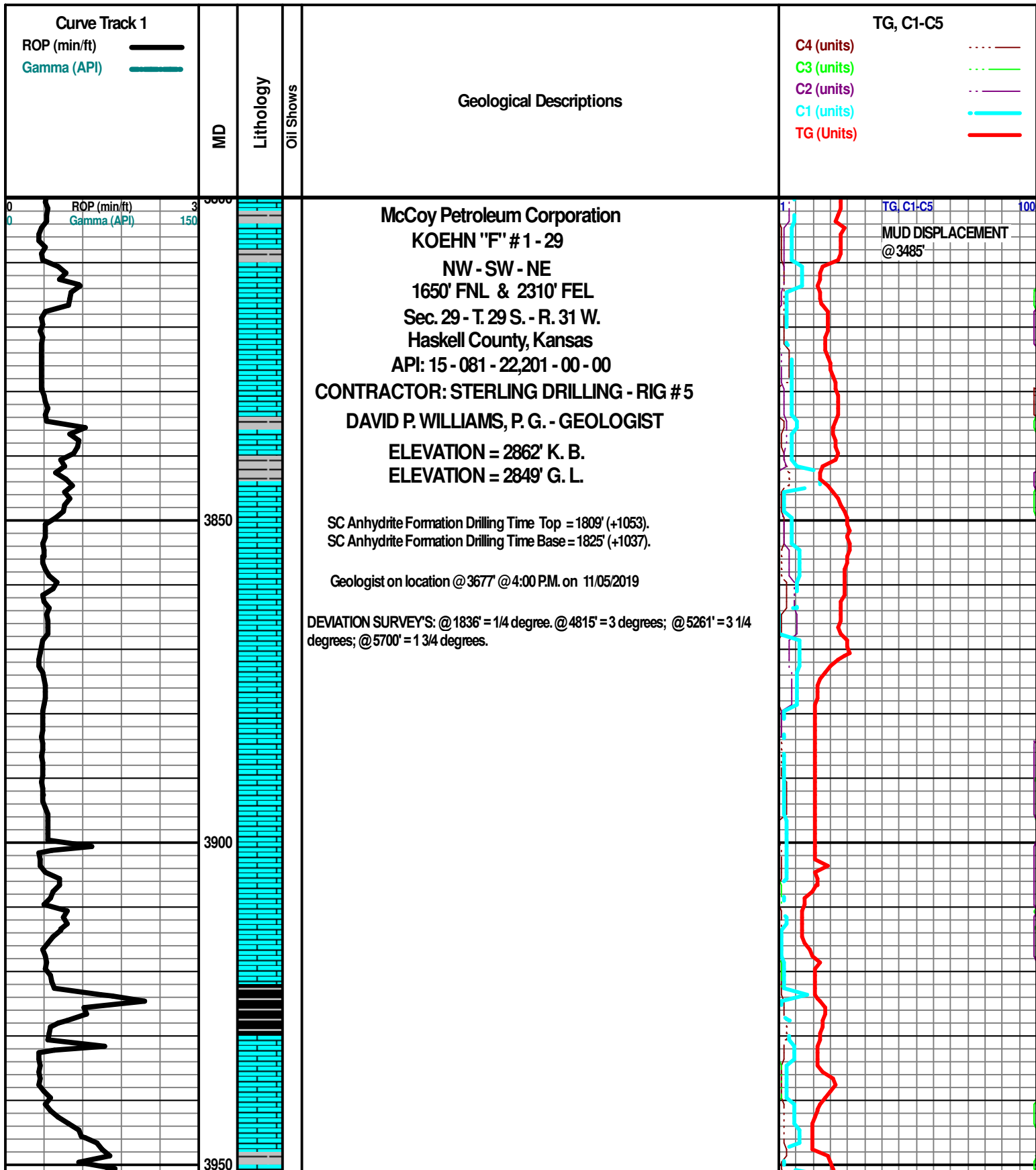
- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

- OIL SHOW**
- Even

- Gas show
- Spotted
- Ques
- Dead

- INTERVAL**
- Dst_alt
 - Dst

- EVENT**
- Rft
 - Sidewall



McCoy Petroleum Corporation
KOEHN "F" # 1 - 29
 NW - SW - NE
 1650' FNL & 2310' FEL
 Sec. 29 - T. 29 S. - R. 31 W.
 Haskell County, Kansas
 API: 15 - 081 - 22,201 - 00 - 00
CONTRACTOR: STERLING DRILLING - RIG #5
DAVID P. WILLIAMS, P. G. - GEOLOGIST
ELEVATION = 2862' K. B.
ELEVATION = 2849' G. L.

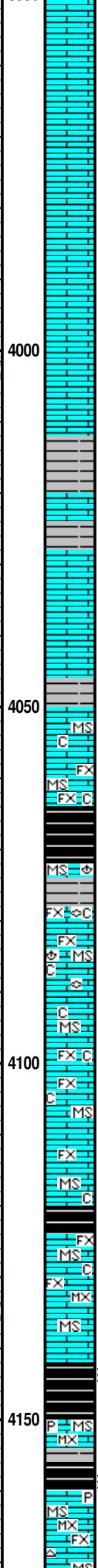
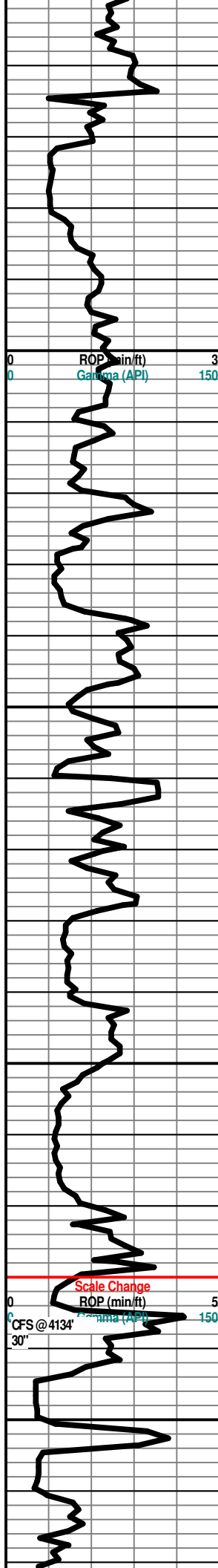
SC Anhydrite Formation Drilling Time Top = 1809' (+1053).
 SC Anhydrite Formation Drilling Time Base = 1825' (+1037).

Geologist on location @ 3677' @ 4:00 P.M. on 11/05/2019

DEVIATION SURVEYS: @ 1836' = 1/4 degree. @ 4815' = 3 degrees; @ 5261' = 3 1/4 degrees; @ 5700' = 1 3/4 degrees.

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

MUD DISPLACEMENT @ 3485'



NOTE: ALL SAMPLES HAVE BEEN LAGGED TO DEPTH BY CALCULATED TIME.

Begin 20' Sample Examination at 4100'

QUEEN HILL SHALE 4064' (- 1202)

Ls Wht-Crm-Gry Fxln Dns Mudstone Poor Ixln Ø Chalky Cht Drk Gry-Wht Op Shp Vit Sh Blk-Carb-Char-Gry-Maroon Fissil-Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Dns Mudstone Poor Ixln Ø Chalky Fos (Brach, Fuss) Cht Wht Op Shp Vit Sh Blk-Carb-Char-Gry-Maroon Fissil-Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Dns Mudstone Poor Ixln Ø Chalky Cht Wht Op Shp Vit Sh Char-Gry-Maroon Fissil-Soft No Odor No Flor No Stn NS

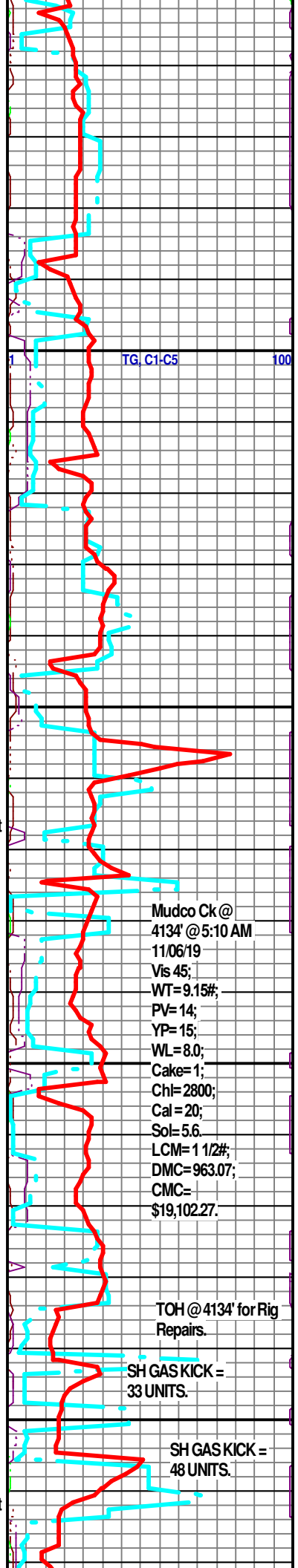
30' CFS @ 4134' Ls Wht-Crm-Gry Fxln Dns Mudstone Poor Ixln Ø Chalky Sh Char-Gry-Maroon Fissil-Soft No Odor No Flor No Stn NS

HEEBNER 4145' (-1283)

Sh Blk-Carb Fissil (w/GSG) Abd Ls Wht-Crm-Gry Mxln Dns Mudstone No Vis Ø Grad Fxln Poor Ixln Ø Chalk No Odor No Stn No Flor GSG in Sh

LEVENWORTH 4151' (- 1289)

TORONTO 4161' (- 1297)
 Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Grad Fxln Poor-Fair Ixln Ø Cht Lt Brn Op Shp Vit Pyr Mass Chalk Sh Blk-Carb- Gry-Grn (w/Pyr Inclus) Soft-Fissil No Odor No Stn No Flor Ns

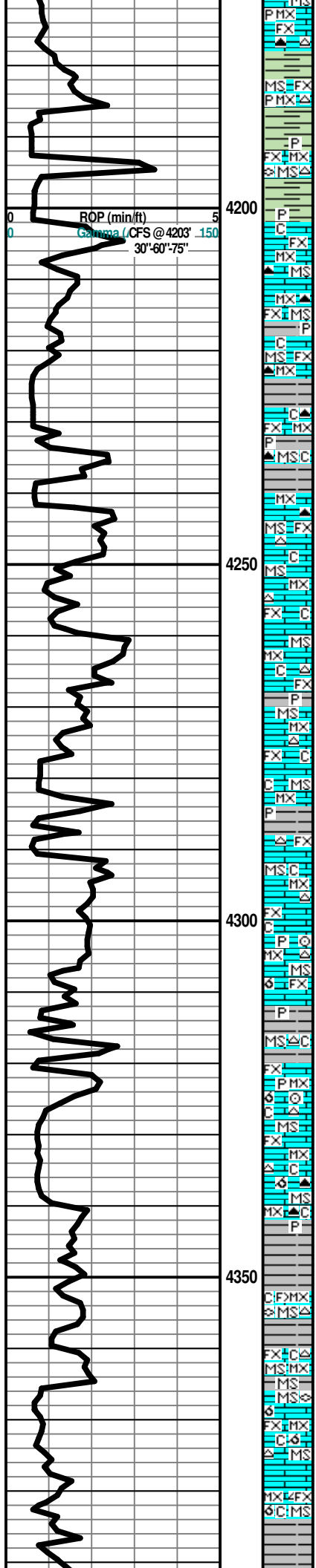


Mudco Ck @
 4134' @ 5:10 AM
 11/06/19
 Vis 45;
 WT= 9.15#;
 PV= 14;
 YP= 15;
 WL= 8.0;
 Cake= 1;
 Ch= 2800;
 Cal = 20;
 Sol= 5.6.
 LCM= 1 1/2#;
 DMC= 963.07;
 CMC=
 \$19,102.27.

TOH @ 4134' for Rig Repairs.

SH GAS KICK = 33 UNITS.

SH GAS KICK = 48 UNITS.



30" CFS @ 4203' Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Grad Fxln Poor-Fair lxn Ø Cht Lt Brn-Wht Op Shp Vit Pyr Mass Chalk Sh Blk-Carb- Gry-Gm (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

60" & 75" CFS @ 4203' Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Grad Fxln Poor-Fair lxn Ø Cht Wht Op Shp Vit Pyr Mass Fos (Fuss) Chalk Sh Blk-Carb- Gry-Gm (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

LANSING 4203' (- 1341)

Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Cht Drk Brn Op Shp Vit Chalk Sh Blk-Carb- Gry-Gm (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Cht Drk-Brn Op Shp Vit Chalk Sh Blk-Carb- Gry-Gm (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Cht Wht Op Shp Vit (Abd) Chalk Sh Blk-Carb-Gry-Gm (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Cht Wht Op Shp Vit (Tr Only) Chalk Sh Blk-Carb-Gry-Gm-Aqua (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

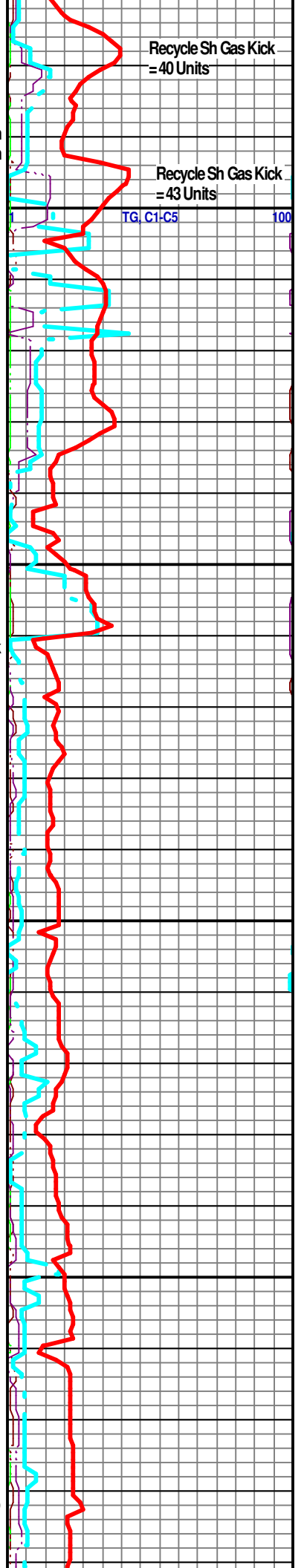
Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Grad Poor-Fair OOM Ø Fair Dissolu Leaching Cht Wht Op Shp Vit Chalk Fos (Crin) Sh Blk-Carb-Gry-Gm (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

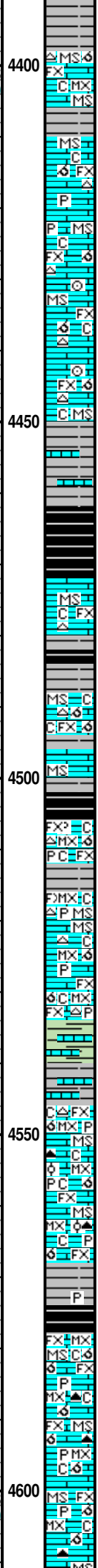
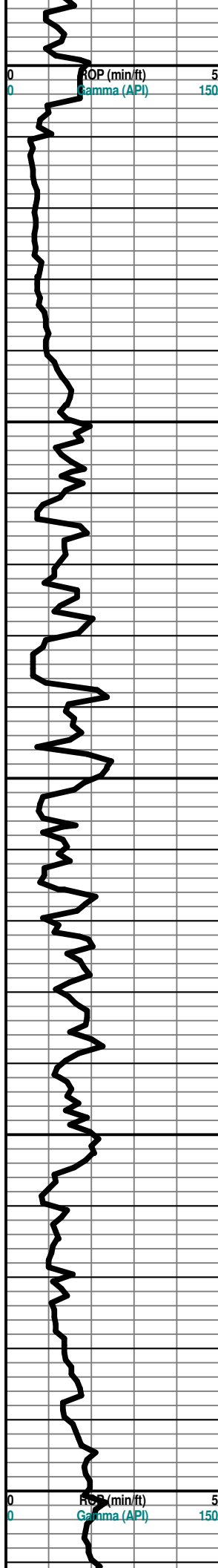
Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Grad Poor-Fair OOM Ø Fair Dissolu Leaching Cht Wht Op Shp Vit Chalk Fos (Crin) Sh Blk-Carb-Gry-Gm (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Cht Wht-Tan Op Shp Vit Chalk Sh Char-Drk-Gry-Gm (w/Pyr Includ) Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Grad Poor OOM Ø Cht Wht-Tan Op Shp Vit Fos (Fuss) Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxln-Fxln Dns Mudstone No Vis Ø Grad Poor OOM Ø Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor Ns





Ls Wht-Crm-Gry Mxn-Fxln Dns Mudstone No Vis Ø Grad Poor OOM Ø Poor Develop
 Poor Leaching Cht Wht Op Shp Vit Fos Chalk Sh Char-Gry Soft-Fissil No Odor No
 Stn No Flor Ns

LANSING "G" 4411' (- 1549)

Ls Wht-Crm-Gry Fxln Dns Mudstone No Vis Ø Grad Poor OOM Ø Poor Develop
 Poor Leaching Cht Wht Op Shp Vit Pyr Mass Chalk Sh Char-Gry Soft-Fissil No Odor No
 Stn No Flor Ns

Ls Wht-Crm-Gry Fxln Dns Mudstone No Vis Ø Grad Poor OOM Ø Poor Develop
 Poor Leaching Cht Wht Op Shp Vit Fos (Crin) Chalk (V Abd) Sh Char-Gry Soft-Fissil No
 Odor No Stn No Flor Ns

Sh Blk Carb-Char-Gry Soft-Fissil Ls Wht-Crm-Gry Fxln Dns Mudstone No Vis Ø Cht
 Wht Op Shp Vit Chalk (Tr Only) No Odor No Stn No Flor Ns

KANSAS CITY "IOLA" 4488' (- 1626)

Sh Blk Carb-Char-Gry Soft-Fissil Ls Wht-Crm-Gry Fxln Dns Mudstone No Vis Ø Grad
 Fair-Med OOM Ø Poor-Fair Leaching Dissolu (Tr Poor-Fair Vug Leaching) Cht Wht
 Op Shp Vit Chalk (Tr Only) No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxn-Fxln Dns Mudstone (w/Pyr Inklus) No Vis Ø Grad Fair-Med
 OOM Ø Fair-Med Dissolu Vug Leaching Cht Wht Op Shp Vit Chalk Sh Gry-Gm
 Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxn-Fxln Dns Mudstone (w/Pyr Inklus) No Vis Ø Grad Fair-Med
 OOM Ø Fair-Med Dissolu Vug Leaching Cht Wht Op Shp Vit Chalk Sh Gry-Gm
 Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxn-Fxln Dns Mudstone (w/Pyr Inklus) No Vis Ø Grad Fair-Med
 OOM Ø Fair-Med Dissolu Vug Leaching (w/OOL in pl) Cht Gry Op Shp Vit Chalk Sh
 Gry-Gm Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxn-Fxln Dns Mudstone (w/Pyr Inklus) No Vis Ø Grad Fair OOM Ø
 Fair Dissolu Vug Leaching (Dec) Cht Gry Op Shp Vit Chalk (Abd) Sh Gry-Gm
 Soft-Fissil No Odor No Stn No Flor Ns

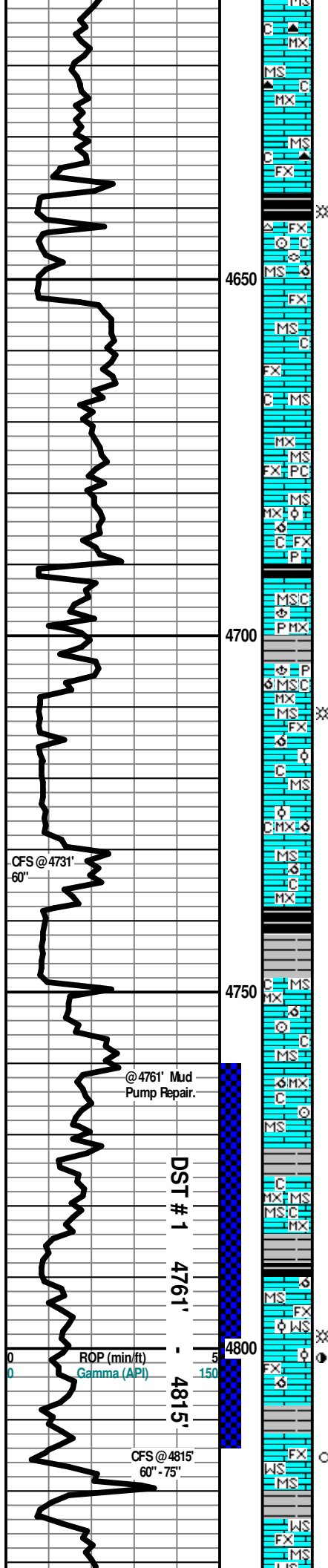
Ls Wht-Crm-Gry Mxn-Fxln Dns Mudstone (w/Pyr Inklus) No Vis Ø Grad Fair OOM Ø
 Fair Dissolu Vug Leaching (Dec) Cht Gry Op Shp Vit Chalk (Abd) Sh Char-Gry-Gm
 Soft-Fissil No Odor No Stn No Flor Ns

TG C1-C5 100

Sh Gas Kick
 = 43 Units

Mudco Ck @
 4591' @ 9:40 AM
 11/07/19
 Vis 49;
 WT=9.2#;
 PV= 16;
 YP= 16;
 WL=9.2;
 Cake= 1-

TG C 100



Ls Wht-Crm-Gry Mxin Dns Mudstone No Vis Ø Cht Lt Gry Op Shp Vit Chalk Sh
Char-Gry-Gm Soft-Fissil No Odor No Stn No Flor Ns

STARK SHALE 4638' (- 1776)
KANSAS CITY "SWOPE" 4642' (- 1780)

Sh Blk Carb-Char-Gry Soft-Fissil Ls Wht-Crm-Gry Fxin Dns Mudstone No Vis Ø Grad Fair OOM Ø Fair Leaching Dissolu Cht Wht Op Shp Vit Fos (Crin, Fuss) Chalk No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Fxin Dns Mudstone No Vis Ø Cht Wht-Lt Brn Op Shp Vit Chalk Sh
Char-Gm-Gry Soft-Fissil No Odor No Stn No Flor Ns

Ls Wht-Crm-Gry Mxin-Fxin Dns Mudstone (w/Pyr Inklus) No Vis Ø Grad Fair OOM Ø Fair Dissolu Vug Leaching (w/OOL in pl) Cht Wht- Lt Gry Op Shp Vit Chalk Sh
Char-Gry-Gm Soft-Fissil No Odor No Stn No Flor Ns

KANSAS CITY "HERTHA" 4692' (- 1830)

Sh Blk Carb (w/GSG)-Char-Gry (w/Pyr Inklus) Soft-Fissil Ls Wht- Crm-Gry Mxin Dns Mudstone (w/Pyr Inklus) No Vis Ø Tr Fair OOM Ø w/Fair Leaching (? Stuff) Cht Wh-Gry Translu-t Op Shp Vit Fos (Brach) Chalk No Odor No Stn No Flor Ns

60" CFS @ 4731' Ls Wht-Crm Fxin Dns Mudstone Fair-Med OOM Ø (w/small-Med-Lg OOL in pl) Fair-Med Develop Fair-Med Leaching (w/Poor-FSG Under Heat in Wtr) Cht Wht Op Shp Vit Fos (Crin) Chalk Sh Char-Gry Soft-Fissil Fair Odor No Stn Sli (Lt Grn Flor-10 Pcs in tray) SSG

75" CFS @ 4731' Ls AA SSG Poor-Fair Odor Sli Flor SSG AA

Sh Char-Gry-Blk Carb Soft-Fissil Ls Wht- Crm-Gry Mxin Dns Mudstone No Vis Ø Tr Poor-Fair OOM Ø w/Poor-Fair Leaching (? Stuff) Chalk No Odor No Stn No Flor Ns

MARMATON "A" 4749' (- 1887)

Ls Wht- Crm-Gry Mxin Dns Mudstone No Vis Ø Tr Poor OOM Ø (w/OOL in pl) Poor Leaching Cht Wht Op Shp Vit Fos (Crin) Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor Ns

Sh Char-Gry-Blk Carb Soft-Fissil Ls Wht- Crm-Gry Mxin Dns Mudstone No Vis Ø Tr Poor-Fair OOM Ø w/Poor-Fair Leaching (? Stuff) Chalk No Odor No Stn No Flor Ns

MARMATON " B" 4791' (- 1929)

30" CFS @ 4815' Ls Wht- Crm Fxin Dns Mudstone/Wackestone Fair-Med Pin-Pt Ixln Ø (w/Fair SO when Bkn Lt Grn.Wht Flor) Tr Poor-Fair OOM Ø (w/Poor-Fair Leaching & OOL in pl) Chalk Fair-Med Odor Scat Flor (Lt Grn-Wht + 20 Pcs) Fair-Med SG (in Wtr Under Heat) Good Cut (Lt Grn/Wht w/Acid) Pin-Pt Scat Stn Fair-Med SG & SSO

60" & 75" CFS @ 4815' Ls Wht- Crm Fxin Dns Mudstone/Wackestone Fair-Med Pin-Pt Ixln Ø (w/Fair SO when Bkn Lt Grn.Wht Flor) Fair-Med Odor Scat Flor (Lt Grn-Wht + 10 Pcs) Fair-Med SG (in Wtr Under Heat) Good Cut (Lt Grn/Wht w/Acid) Pin-Pt Scat Stn Fair-Med SG & SSO

Ls Wht- Crm Fxin Dns Mudstone/Tr Wackestone (4 Pcs & Dec) AA Poor-Fair Pin-Pt

Chl= 4800;
Cal= 20;
Sol= 6.1;
LCM= 2 #;
DMC= \$ 1005.37;
CMC=
\$20,107.64.

Sh Gas Kick=72 Units.

Mudco Ck @
4815' @ 7:40 AM
11/08/19
Vis 60;
WT= 9.2#;
PV= 22;
YP= 1619
WL= 7.6;
Cake= 1;
Chl= 3600;
Cal= 20;
Sol= 6.2;
LCM= 4#;
DMC= \$1857.64;
CMC=
\$21,965.28.

Sh Gas Kick=87 Units.

Scale Change
TG, C1-C5

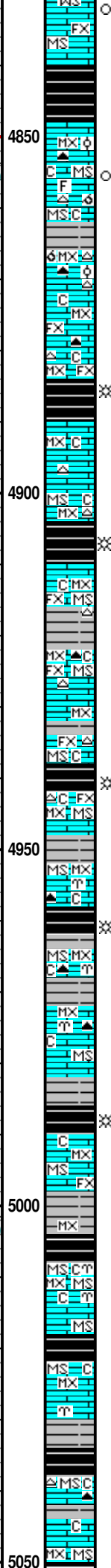
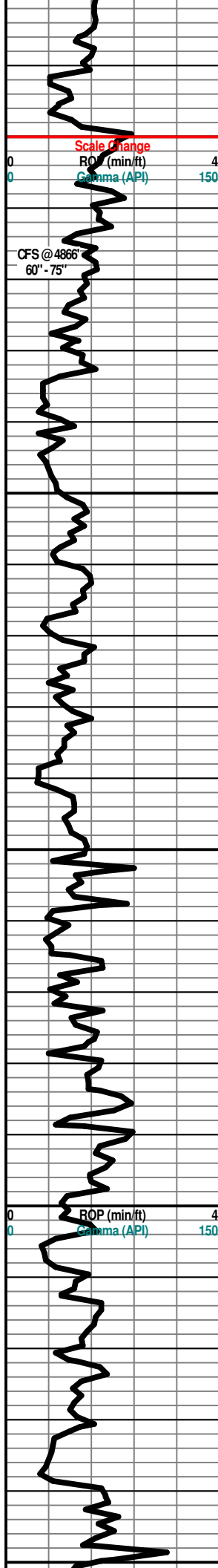
~ ~ DST # 1 ~ ~
Interval: 4761" - 4815".
Times: 3"-30"-60"-150";
Blow: IF=Strong/10".
FF= BOB/Instant & Built to 131" in Bucket.
Recovery: 2174' G.I.P. & 90' GOM (10% G; 5% Oil & 85% Mud).
Pressures:
IH = 2421#;
FH = 2386#;
IF = 37-27#; FF = 37-50#;
ISIP = 834#; FSIP = 895#;
Temp= 120 degrees F.

Gas Kick= 120 Units.

TG, C1-C5

Pipe Strap @ 4815' = 0.82' Short to Board

? Recycle Gas Kick= 100 Units.



Ls Wht-Crm Tan Mxn Dns Mudstone No Vis Ø Tr Poor OOM Ø (w/OOL in pl) Poor-No
 lxn Ø AA Poor ? Odor Scat Flor (Lt Grm-Wht + 5 Pcs) Scat Flor (Lt Grm-Wht Stn) AA ?
 VSSG & VSSO

PAWNEE 4848' (- 1986)

60" CFS @ 4866' Ls Wht-Crm-Gry Mxn Dns Mudstone No Vis Ø Tr Poor OOM Ø (w/OOL in pl) Poor-No
 Leaching Dissolu Cht Wht-Drk Brn Op Shp Vit Fos (?) Chalk Sh Char-Gry-Grm Banded Soft-Fissil ?
 Faint Odor No Stn VSli Flor (5 Pcs AA) NS

75" CFS @ 4866' Ls Wht-Crm-Gry Mxn Dns Mudstone No Vis Ø Tr Poor OOM Ø (w/OOL in pl)
 Poor-No Leaching Dissolu AA Cht Wht-Drk Brn Op Shp Vit Fos (?) Chalk Sh Char-Gry-Grm Banded
 Soft-Fissil ? Faint Odor No Stn ? VSli Min Flor NS

Ls Wht-Crm-Tan Mxn Dns Mudstone No Vis Ø Grad Fxn Poor lxn Pin-Pt Ø
 Mudstone Cht Gry Translu-Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor No Stn
 No Flor NS

FORT SCOTT 4889' (- 2027)

CHEROKEE SHALE 4904' (- 2042)

Sh Blk Carb-Char-Gry Fissil-Soft Ls Wht-Crm Mxn Mudstone AA Grad Fxn Poor lxn Ø AA Cht
 Wht-Gry-Clear Translu-Op Shp Chalk No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Mxn Dns No Vis Ø Grad Fxn Poor lxn Pin-Pt Ø Mudstone Cht
 Wht-Gry-Lt Brn Op Shp Vit Chalk Sh Char-Gry-Blk Carb AA Soft-Fissil No Odor No
 Stn No Flor NS

SECOND CHEROKEE SHALE 4938' (- 2074)

Ls Wht-Crm-Tan Mxn Dns No Vis Ø Grad Fxn Poor lxn Pin-Pt Ø Mudstone Cht Wht
 Op Shp Vit Chalk Sh Char-Gry-Blk Carb (Dec) AA Soft-Fissil No Odor No Stn No Flor
 NS

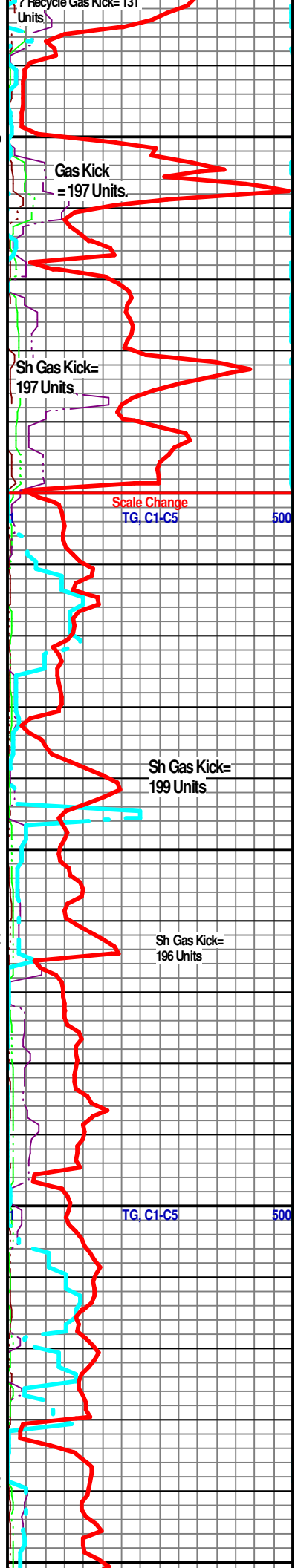
Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Mxn Grad Poor Pin-Pt lxn Ø Mudstone Cht
 Lt Brm-Amber Op Shp Fos (Bry) Chalky No Odor No Stn No Flor NS

Sh Blk Carb-Char Fissil Ls Wht-Crm-Gry Dns Mxn Poor lxn Ø Mudstone Grad Fxn
 Poor Pin-Pt Ø Mudstone Chalk No Odor No Flor No Stn NS

THIRD CHEROKEE SHALE 5004' (- 2142)

Sh Blk Carb-Char Fissil Ls Wht-Crm-Gry Dns Mxn Poor lxn Ø Mudstone Grad Fxn
 Poor Pin-Pt Ø Mudstone Fos (Bry) Chalk No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Mxn Grad Poor Pin-Pt lxn Ø Mudstone Cht
 Lt Brm-Amber Op Shp Chalky No Odor No Stn No Flor NS



Gas Kick = 197 Units

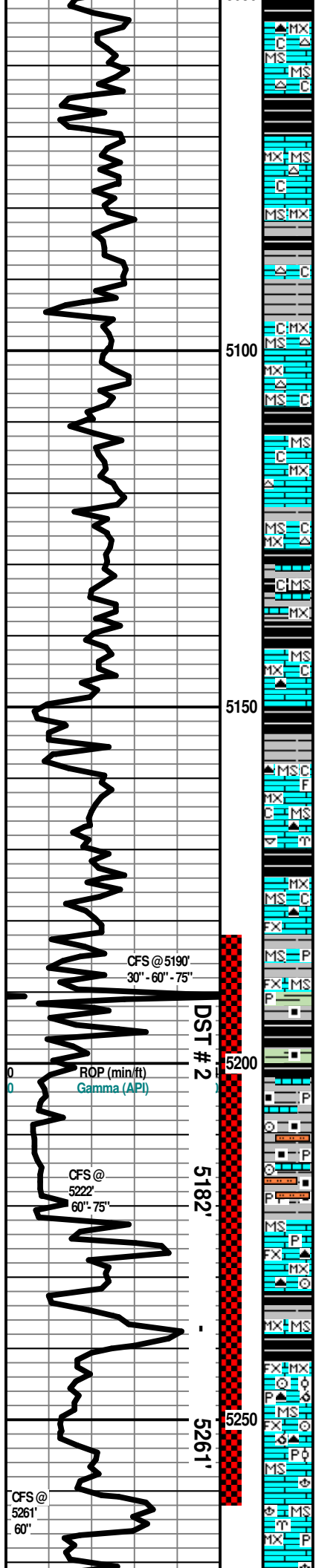
Sh Gas Kick = 197 Units

Scale Change TG C1-C5

Sh Gas Kick = 199 Units

Sh Gas Kick = 196 Units

TG C1-C5



Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Mxln Grad Poor Pin-Pt Ixln Ø Mudstone Cht
Wht-Lt Brn Op Shp Chalky No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Mxln Grad Poor Pin-Pt Ixln Ø Mudstone Cht
Wht-Lt Gry Op Shp Chalky No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Mxln Grad Poor Pin-Pt Ixln Ø Mudstone Cht
Wht-Lt Gry Op Shp Chalky No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Mxln Grad Poor Pin-Pt Ixln Ø Mudstone Cht Wht-Lt Gry Op Shp
Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Mxln Grad Poor Pin-Pt Ixln Ø Mudstone Cht Amber-Gry-Wht Op
Shp Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

ATOKA SHALE 5150' (- 2288)

Sh Blk Carb-Char-Gry Fissil Ls Gry-Crm Mxln Grad Poor Pin-Pt Ixln Ø Mudstone Cht
Lt Gry Op Shp Chalky No Odor No Stn No Flor NS

30" CFS@5190' Ls Gry-Crm-Wht Mxln Grad Poor Pin-Pt Ixln Ø Mudstone Cht Drk
Gry (w/Wht Fos Inclus) Op Shp Fos (Bry, Pelec) Chalky Sh Blk Carb-Char-Gry Fissil
No Odor No Stn No Flor NS

60" & 75" CFS@5190' Ls Gry-Crm-Wht Mxln Grad Poor Pin-Pt Ixln Ø Mudstone Cht
Drk Gry-Blk (w/Wht Fos Inclus) Op Shp Fos (Bry, Pelec) Chalky Sh Blk Carb-Char-Gry
Fissil No Odor No Stn No Flor NS

MORROW SHALE 5191' (- 2329)

60" & CFS@5222' Sh Blk Carb-Gry (w/Pyr Inclus)-Gm Fissil Ls Crm Dns Fxln Poor
Ixln Ø Mudstone Grad Qtz SS B VFG (w/Laminated Carb & Pyr Inclus) Dns Poor-No
IGran Ø Poor Sort Fos (Brach, Crin & Pelec) No Odor No Stn No Flor NS

75" & CFS@5222' Sh Blk Carb-Gry (w/Pyr Inclus)-Gm Fissil Ls Crm Dns Fxln Poor
Ixln Ø Mudstone Grad Qtz SS Drk Brn VFG (w/Laminated Carb & Pyr Inclus) Dns
Siltstone Poor-No IGran Ø (w/Ssg Under Heat in Wtr) Fos (Brach, Crin & Pelec) No
Odor No Stn No Flor NS

Ls Wht-Crm-Gry Mxln-Fxln-Med Sil Coarse Grad Poor Pin-Pt Ixln Ø Mudstone Cht
Blk (w/Wht/Fos Inclus) Op Shp Fos (Brach, Crin) Chalky Sh Blk Carb-Char-Gry Fissil
No Odor No Stn No Flor NS

MISSISSIPPIAN "CHESTERIAN" 5242' (- 2380)

60" CFS@5261' Ls Crm-Tan Mxln-Fxln Dns Mudstone w/Pyr Inclus Grad Poor OOM
Ø (w/OOL in pl) Poor Dissolu VSSO (1 Droplet When Bkn Under Heat in Wtr) Cht Blk
(w/Wht Fos Inclus) Sh Char-Gry-Gm/Aqua-Blk Carb Fissil Fos (Coral, Brach) (Tr
Only) No Odor No Stn No Flor ? VVSO

Sh Gas Kick
= 230 Units

Mudco Ck @
5190' @ 6:30 AM
11/09/19
Vis 50;
WT=9.15#;
PV= 16;
YP= 18;
WL= 7.2;
Cake= 1;
ChI= 4600;
Cal= 20;
Sol= 5.4;
LCM= 3#;
DMC=\$2073.55;
CMC=
\$24,038.83.

Sh Gas Kick
= 211 Units

Short Trip 10-15
Stands @ 5190'

Gas Kick
= 211 Units

~ DST # 2 ~

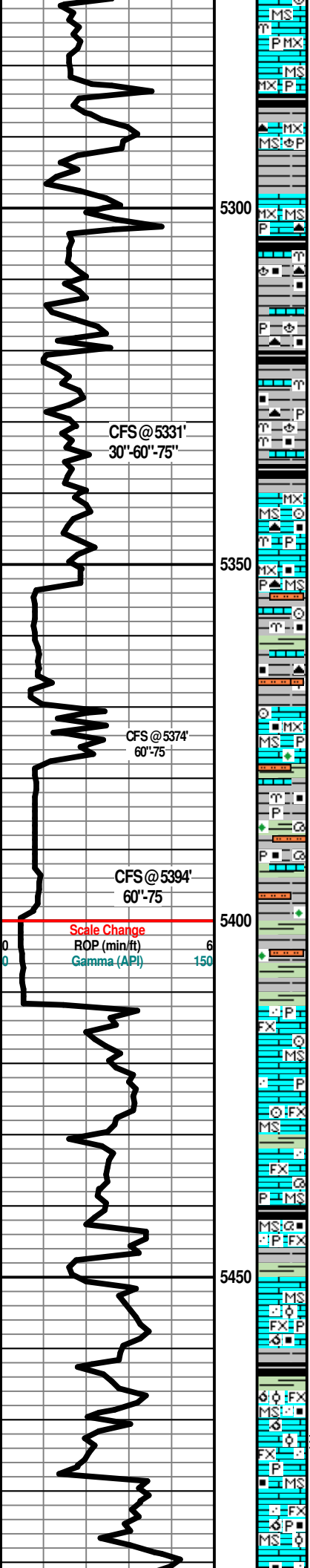
Gas Kick
= 208 Units

Interval: 5182-5261'.
Times: 3"-30"-60"-150";
Blow: IF=Weak Surface
Blow 1.1".
FF= Weak Surface Blow 1.1"
& Died.
Recovery: 5' Drilling Mud.
Pressures:
IH = 2525#;
FH = 2649#;
IF = 32-23#;
23-25#;
ISIP = 65#;
64#;
Temp= 125 degrees F.

Sh Gas Kick
= 211 Units

Scale Change

@5261' Replace Clutch on
Mud Pump



Sh Gry-Char-Blk Carb Fissil Ls Gry-Crm-Wht (w/Pyr Incls) Mxn Poor-No lxn Ø Mudstone Fos (Bry, Brach) No Odor No Stn No Flor NS

30" CFS @ 5331' Sh Gry (w/ Carb Incls)-Char-Blk Carb Fissil Ls Gry-Crm-Wht (w/Caeb & Pyr Incls) Mxn Poor-No lxn Ø Mudstone Cht Lt Brn-Wht Op Shp Vit Fos (Bry, Brach) No Odor No Stn No Flor NS

MISS. "LOWER CHESTER" 5305' (- 2443)

60" CFS @ 5331' Sh Gry (w/ Carb Incls)-Char-Blk Carb Fissil Ls Gry-Crm-Wht (w/Carb & Pyr Incls) Mxn Poor-No lxn Ø Mudstone Cht Lt Brn-Wht Op Shp Vit Fos (Bry, Brach) No Odor No Stn No Flor NS

75" CFS @ 5331' Ls Gry-Crm-Wht (w/Carb & Pyr Incls) Mxn Poor-No lxn Ø Mudstone Cht Lt Brn-Wht Op Shp Vit Fos (Bry, Brach) Pyr Mass Sh Gry (w/ Carb Incls)-Char-Blk Carb Fissil No Odor No Stn No Flor NS

60" CFS @ 5374' Sh Gry (w/ Carb Incls)-Char-Blk Carb Fissil Ls Gry-Crm-Wht (w/Carb & Pyr Incls) Mxn Poor No lxn Ø Mudstone Cht Lt Brn-Wht Op Shp Vit Fos (Bry, Crin) No Odor No Stn No Flor NS

75" CFS @ 5374' Sh Gry (w/ Carb Incls)-Char-Blk Carb Fissil Ls Gry-Crm-Wht (w/Carb & Pyr Incls) Mxn Poor No lxn Ø Mudstone Cht Lt Brn-Wht Op Shp Vit Fos (Bry, Crin) No Odor No Stn No Flor NS

60" CFS @ 5394' Sh Gry (w/ Carb Incls)-Char-Blk Carb-Aqua Fissil Ls Gry-Crm-Wht (w/Carb & Pyr Incls) Mxn Poor No lxn Ø Mudstone Cht Lt Brn-Wht Op Shp Vit Qtz Siltsotne (Tr Only- 4 Pcs) VFG Small Grns (w/Carb, Pyr & Galcu or Chlorite Incls) Dns VPoor IGran Ø Sli Friable Fos (Gastro, Bry) No Odor No Stn No Flor NS

75" CFS @ 5394' Sh AA Ls AA SSAA No Odor No /stn No Flor NS

Sh Gry (w/ Carb Incls)-Char-Blk Carb-Aqua-Yell Fissil Ls Gry-Crm-Wht (w/Carb & Pyr Incls) Mxn Poor No lxn Ø Mudstone Cht Lt Brn-Wht Op Shp Vit Qtz Siltsotne (Tr Only- 4 Pcs) VFG Small Grns (w/Carb, Pyr & Galcu or Chlorite Incls) Dns VPoor IGran Ø Sli Friable Fos (Gastro, Coral) No Odor No Stn No Flor NS

MISS. "STE. GEN" 5412' (- 2550)

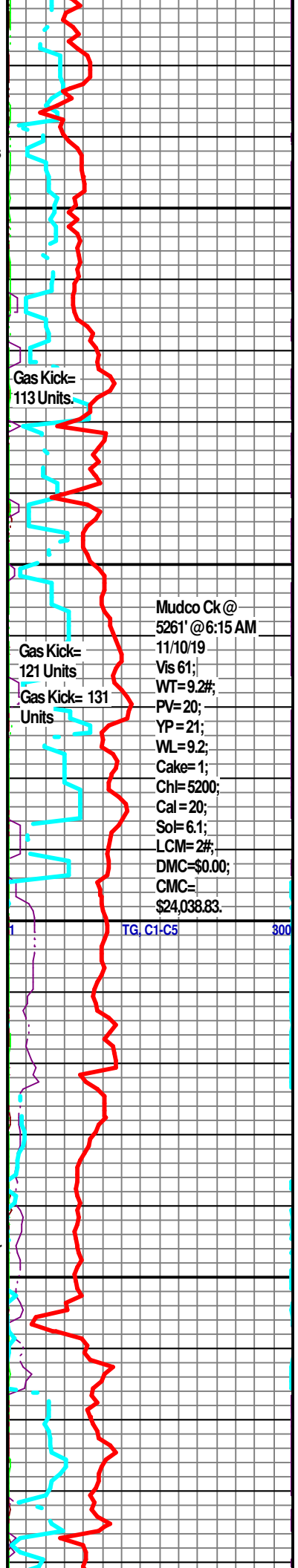
Sh Char-Blk Carb-Gry-Maroon-Aqua-Yell Soft-Fissil Ls Wht-Gry-Grm-Aqua Fxln Poor "Carbonate Sandy Ls" (w/Small Qtz Ss Incls) Wht-Crm-Tan-Gry VFGm Ang-Sub Ang Incls (fL=125-177 Microns= 3.0-2.25 Ø) Mudstone Fos (Crin) No Odor No Stn No Flor NS

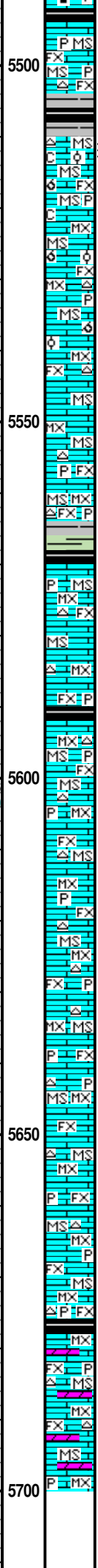
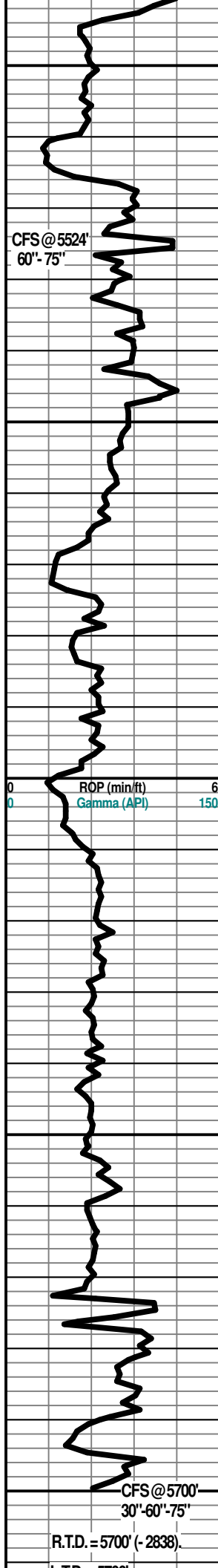
Sh Char-Blk Carb-Gry-Maroon-Aqua-Yell Soft-Fissil Ls Wht-Gry-Grm-Aqua Fxln Poor Igran Ø "Carbonate Sandy Ls" (w/Small Qtz Ss Incls) Wht-Crm-Tan-Gry VFGm Ang-Sub Ang Incls (fL=125-177 Microns= 3.0-2.25 Ø) Mudstone (w/Carb & Pyr Incls) Fos (Gastro) No Odor No Stn No Flor NS

Sh Char-Blk Carb-Gry-Maroon-Aqua-Yell-Maroon Soft-Fissil Ls Wht-Gry-Grm-Aqua Fxln Poor Igran Ø "Carbonate Sandy Ls" (w/Small Qtz Ss Incls) Wht-Crm-Tan-Gry VFGm Ang-Sub Ang Incls (fL=125-177 Microns= 3.0-2.25 Ø) Mudstone (w/Carb & Pyr Incls) Grad Tr Poor OOM Ø (w/OOL in pl) No Dissolu No Odor No Stn No Flor NS

MISS. " ST. LOUIS" 5578' (- 2716)

Sh Char-Blk Carb-Gry-Maroon-Aqua-Yell-Maroon Soft-Fissil Ls Wht-Gry-Grm-Aqua Fxln Poor Igran Ø "Carbonate Sandy Ls" (w/Small Qtz Ss Incls) Wht-Crm-Tan-Gry VFGm Ang-Sub Ang Incls (fL=125-177 Microns= 3.0-2.25 Ø) Mudstone (w/Carb & Pyr Incls) Grad Tr Poor OOM Ø (w/OOL in pl) No Dissolu No Odor No Stn No Flor NS





60" & 75" CFS @ 5524' Ls Crm-Wht Mxln-Fxin Dns Mudstone Grad Poor OOM/OOL Ø (w Free Med-Lg Ooids in Try-5 indiv pcs) Poor Leaching Diissolu Grad Tr Poor Pin-Pt lxn & Sli Tr Vug Ø (wSSG-Under Heat in Wtr) Cht Gry Op (w/Wht OOL Inclus) Shp Vit Grad Tan/Clear (w/Wht Fos Inclus) Chalk (Abd) Sh Char (w/Pyr Inclus)- Maroon-Blk Carb-Gry Tr Poor Drk Blk Stn (? Dead Stn in Vugs) Fair Odor No Flor SSG

Ls Crm-Wht Mxln-Fxin Dns Mudstone Grad Poor OOM/OOL Ø Poor Leaching Diissolu Grad Tr Poor Pin-Pt lxn & Sli Tr Vug Ø (w/Free Ooid is Pl - 2 Wht-Clear) Cht Wht-Clear-Amber (Banded) Translu- Op Shp Vit Chalk (Abd) Sh Char (w/Pyr Inclus)-Blk Carb-Gry No Odor No Flor No Stn NS

Ls Crm-Wht Mxln-Fxin Dns Mudstone Poor lxn Ø AA Grad Poor lGran Ø Cht Gry-Wht-Org Translu-Op Shp Vit Sh Char (w/Pyr Inclus)-Gry-Gm-Aqua-Yell Soft-Fissil Pyr Mass No Odor No Stn No Flor NS

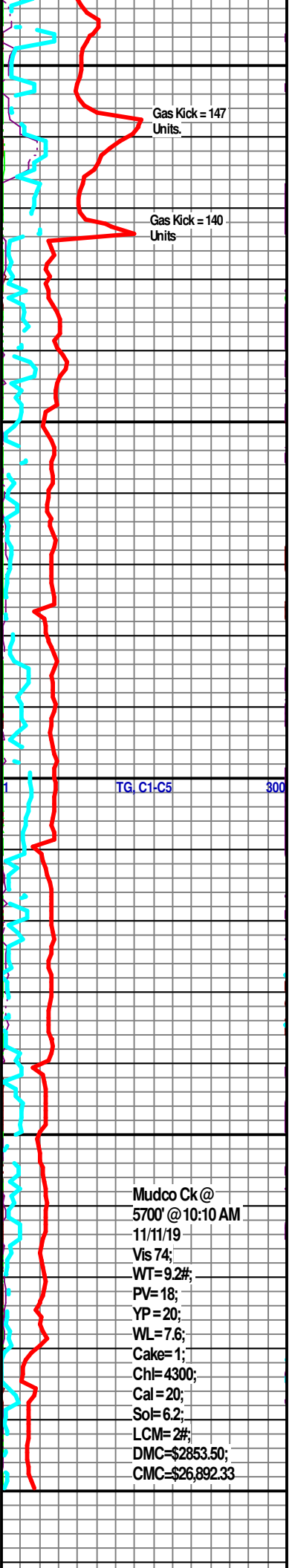
Ls Crm-Wht Mxln-Fxin Dns Mudstone Poor lxn Ø AA Grad Poor lGran Ø Cht Gry-Wht-Org- Clear Translu- Op Shp Vit Sh Char (w/Pyr Inclus)-Gry-Gm-Aqua-Yell Soft-Fissil Pyr Mass No Odor No Stn No Flor NS

Ls Crm-Wht Mxln-Fxin Dns Mudstone Poor lxn Ø AA Grad Poor lGran Ø Cht Gry-Wht-Clear Translu- Op Shp Vit Sh Char (w/Pyr Inclus)-Gry-Gm-Aqua-Yell Soft-Fissil Pyr Mass Fos (Crin) No Odor No Stn No Flor NS

Ls Crm-Wht Mxln-Fxin Dns Mudstone Poor lxn Ø AA Grad Poor lGran Ø Cht Gry-Wht Op Shp Vit Sh Char (w/Pyr Inclus)-Gry-Gm-Aqual Soft-Fissil No Odor No Stn No Flor NS

Ls Crm-Wht Mxln-Fxin Dns Mudstone Poor lxn Ø AA Grad Poor lGran Ø Cht Gry-Wht Op Shp Vit Sh Char (w/Pyr Inclus)-Gry-Gm-Aqual Soft-Fissil No Odor No Stn No Flor NS

30"-60"-75" CFS @ 5700' Ls Crm-Wht Mxln-Fxin Dns Mudstone Poor lxn Ø Grad Dolo Gry Mxln Dns No Vis Ø Cht Wht Op Shp Vit Sh Blk Carb-Char-Gry (w/Pyr Inclus) Soft-Fissil No Odor No Stn No Flor NS



Gas Kick = 147 Units

Gas Kick = 140 Units

TG C1-C5 300

Mudco Ck @
5700' @ 10:10 AM
11/11/19
Vis 74;
WT=9.2#;
PV= 18;
YP= 20;
WL= 7.6;
Cake= 1;
Ch= 4300;
Cal= 20;
SoF= 6.2;
LCM= 2#;
DMC=\$2853.50;
CMC=\$26,892.33

Electric Logs Run: By Halliburton Logging: Triple Combo: Dual Induction; Compensated Density-Neutron, Sonic and Microresistivity Logs.

CFS @ 5524'
60"-75"

ROP (min/ft)
Gamma (API)

CFS @ 5700'
30"-60"-75"

R.T.D. = 5700' (- 2838)

L.I.D. = 5700

5750

5800

Geologist Released From Locatom @ PM. on 11/ /2019.

