

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
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

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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Form	ACO1 - Well Completion
Operator	Steffen Resource Development, LLC
Well Name	STEFFEN FAMILY 1-19
Doc ID	1482142

All Electric Logs Run

ROP & Gas Data
Gamma Ray
Open Hole
Closed Hole

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1705

Date	9-8-19	Sec.	18	Twp.	30	Range	7	County	Kingman	State	Ks	On Location		Finish	5:15 AM
Lease								Location		Spivey 1/2 S to 150 th Street, 3E,					
Steffen family								Well No.		1-19					
Contractor								Owner		N into N+W to Rig					
Duke #2								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job								Long string							
Hole Size				T.D.				Ch. To				Steffen Resource Development			
5 7/8" 17#				4283'				Street				3500 N. Maufield Rd			
Csg.				Depth				City				Hutchinson State Ks 67502			
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered				425 80/30 QMDC 1/4" Flo-seal			
43.50'				43.50'				225				Q-Pro-C 10% Salt 5% Gilsomite			
Meas Line								Displace		98 BLS					
EQUIPMENT															
Pumptrk 17 No.								Cementer				Common			
17								Helper Tom				Rick			
Bulktrk 19 No.								Driver				Poz. Mix			
19								Driver Doug				Gel.			
Bulktrk 9 No.								Driver				Calcium			
9								Driver Tony L.				Huffs 10 BLS KCL			
JOB SERVICES & REMARKS															
Remarks:								Salt							
Rat Hole								30.5x							
Flowseal															
Mouse Hole															
Centralizers								1, 3, 5, 7, 9, 11, 13, 15							
Mud CLR 48								500 gal							
Baskets								32, 36, 66, 85							
CFL-117 or CD110 CAF 38															
D/V or Port Collar								Pipe on bottom break							
Sand								Circulation Pump 500 gal mud clean							
Handling								48, Plug Bathole w/ 30x plug							
Mileage								Hook to 150'							
FLOAT EQUIPMENT															
Guide Shoe								Casing + mix 395 5x QMIX + 2005							
Centralizer								Q-Pro-C Cement Shut down Wash							
Baskets								Pump + lines Displaced Plug							
AFU Inserts								w/ 98 BLS H2O Released + Offhd.							
Float Shoe								10 BLS KCL							
Latch Down								Lift Pressure #							
								Land Plug to #							
Pumptrk Charge								Cement turned Corner @ 180°							
Mileage								out @ 300 ft							
								Cement Did not Circulate							
								est. 5 bbl							
Signature								John Vanney							
												Tax			
												Discount			
												Total Charge			

January 13, 2020

Mark Steffen
Steffen Resource Development, LLC
3500 N MAYFIELD RD
HUTCHINSON, KS 67502-9461

Re: ACO-1
API 15-095-22331-00-00
STEFFEN FAMILY 1-19
NE/4 Sec.18-30S-07W
Kingman County, Kansas

Dear Mark Steffen:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 08/29/2019 and the ACO-1 was received on January 13, 2020 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Steffen Resources Development

18-30s-7w Kingman Co., Ks.

3500 N Mayfield Rd
Hutchinson, Ks. 67502

Steffen Family 1-19

Job Ticket: 64940

DST#: 1

ATTN: Keith Reavis

Test Start: 2019.09.06 @ 20:08:31

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:59:46

Time Test Ended: 04:41:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 4129.00 ft (KB) To 4137.00 ft (KB) (TVD)

Reference Elevations: 1472.00 ft (KB)

Total Depth: 4137.00 ft (KB) (TVD)

1465.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8931

Inside

Press@RunDepth: 20.57 psig @ 4130.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.06

End Date:

2019.09.07

Last Calib.:

2019.09.07

Start Time:

20:08:36

End Time:

04:41:16

Time On Btm:

2019.09.06 @ 22:53:46

Time Off Btm:

2019.09.07 @ 02:59:46

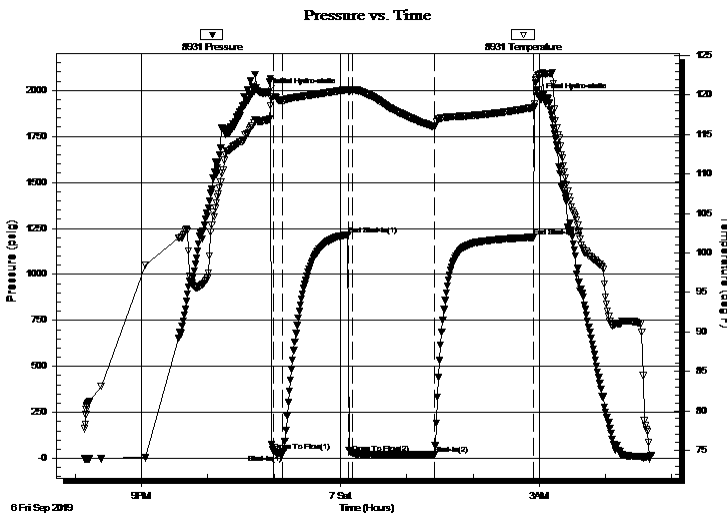
TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 52.52".

IS: No Blow .

FF: Strong Blow . B.O.B., immediate. Built to 200.65". G.T.S. in 44 mins. Gauged Gas.

FS: No Blow .

PRESSURE SUMMARY



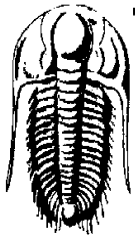
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.12	116.83	Initial Hydro-static
6	37.59	119.76	Open To Flow (1)
15	24.40	119.31	Shut-In(1)
74	1216.45	120.73	End Shut-In(1)
77	30.30	120.70	Open To Flow (2)
152	20.57	115.94	Shut-In(2)
242	1201.69	118.43	End Shut-In(2)
246	1960.01	122.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig Mud 100%m	0.03
0.00	G.I.P. 100%g	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.31	7.75
Last Gas Rate	0.13	9.07	8.78
Max. Gas Rate	0.13	9.07	8.78



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Steffen Resources Development

18-30s-7w Kingman Co., Ks.

3500 N Mayfield Rd
Hutchinson, Ks. 67502

Steffen Family 1-19

Job Ticket: 64940

DST#: 1

ATTN: Keith Reavis

Test Start: 2019.09.06 @ 20:08:31

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:59:46
 Tester: Matt Smith
 Time Test Ended: 04:41:16
 Unit No: 68
 Interval: **4129.00 ft (KB) To 4137.00 ft (KB) (TVD)**
 Reference Elevations: 1472.00 ft (KB)
 Total Depth: 4137.00 ft (KB) (TVD)
 1465.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 8788

Outside

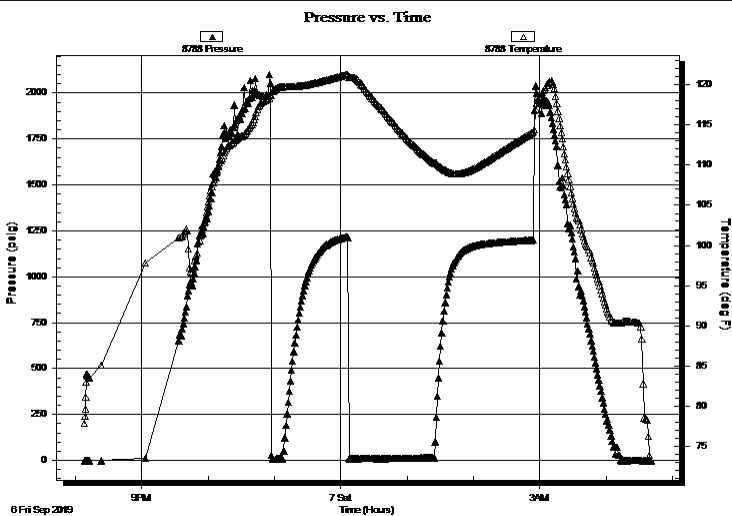
Press@RunDepth: psig @ 4130.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2019.09.06 End Date: 2019.09.07 Last Calib.: 2019.09.07
 Start Time: 20:08:18 End Time: 04:40:58
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 52.52".

IS: No Blow .

FF: Strong Blow . B.O.B., immediate. Built to 200.65". G.T.S. in 44 mins. Gauged Gas.

FS: No Blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig Mud 100%m	0.03
0.00	G.I.P. 100%g	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.31	7.75
Last Gas Rate	0.13	9.07	8.78
Max. Gas Rate	0.13	9.07	8.78



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Steffen Resources Development

18-30s-7w Kingman Co., Ks.

3500 N Mayfield Rd
Hutchinson, Ks. 67502

Steffen Family 1-19

Job Ticket: 64940

DST#: 1

ATTN: Keith Reavis

Test Start: 2019.09.06 @ 20:08:31

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:

4000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 4000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
2.00	Drig Mud 100%m	0.028
0.00	G.I.P. 100%g	0.000

Total Length: 2.00 ft Total Volume: 0.028 bbf

Num Fluid Samples: 1

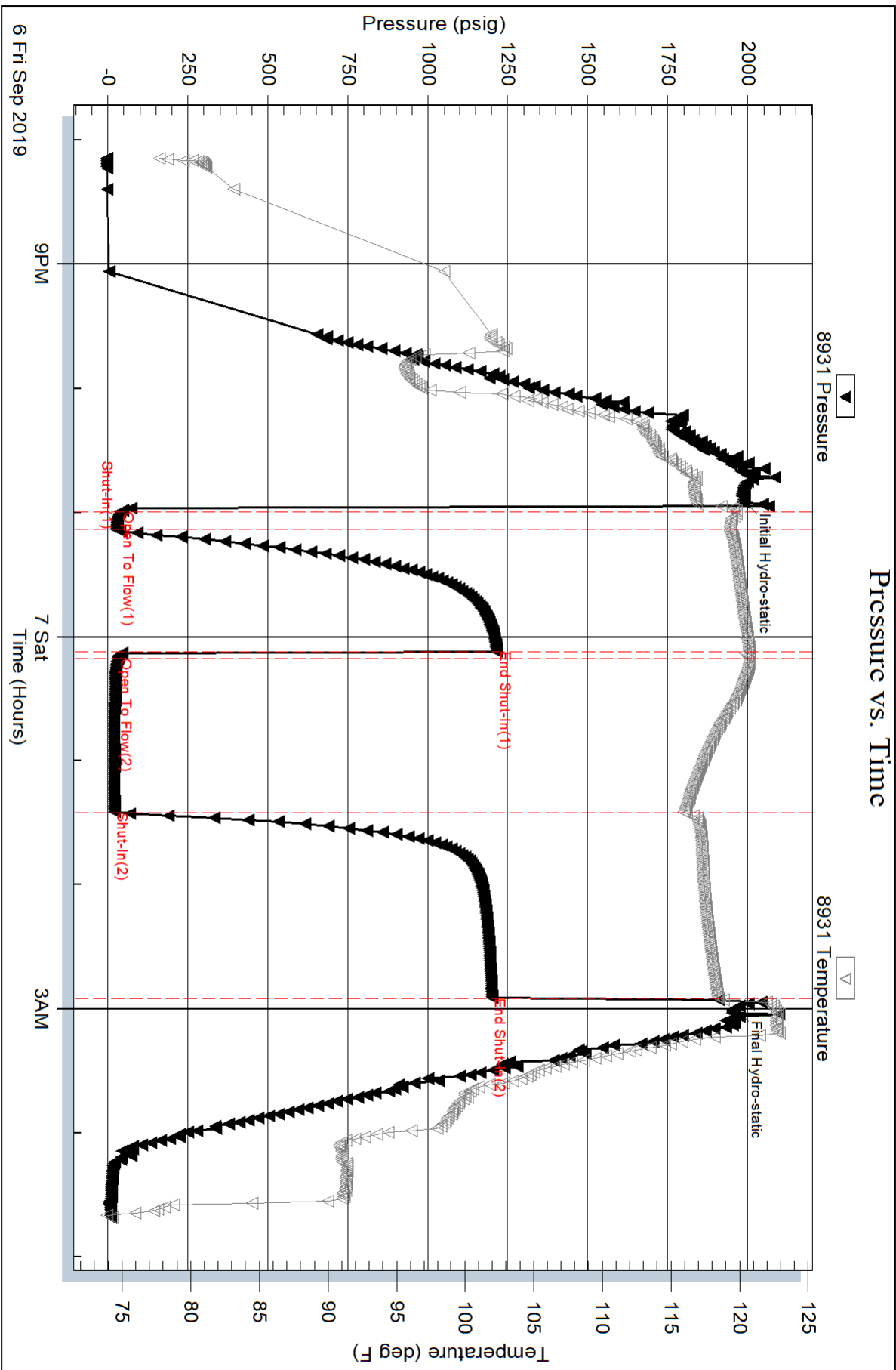
Num Gas Bombs: 1

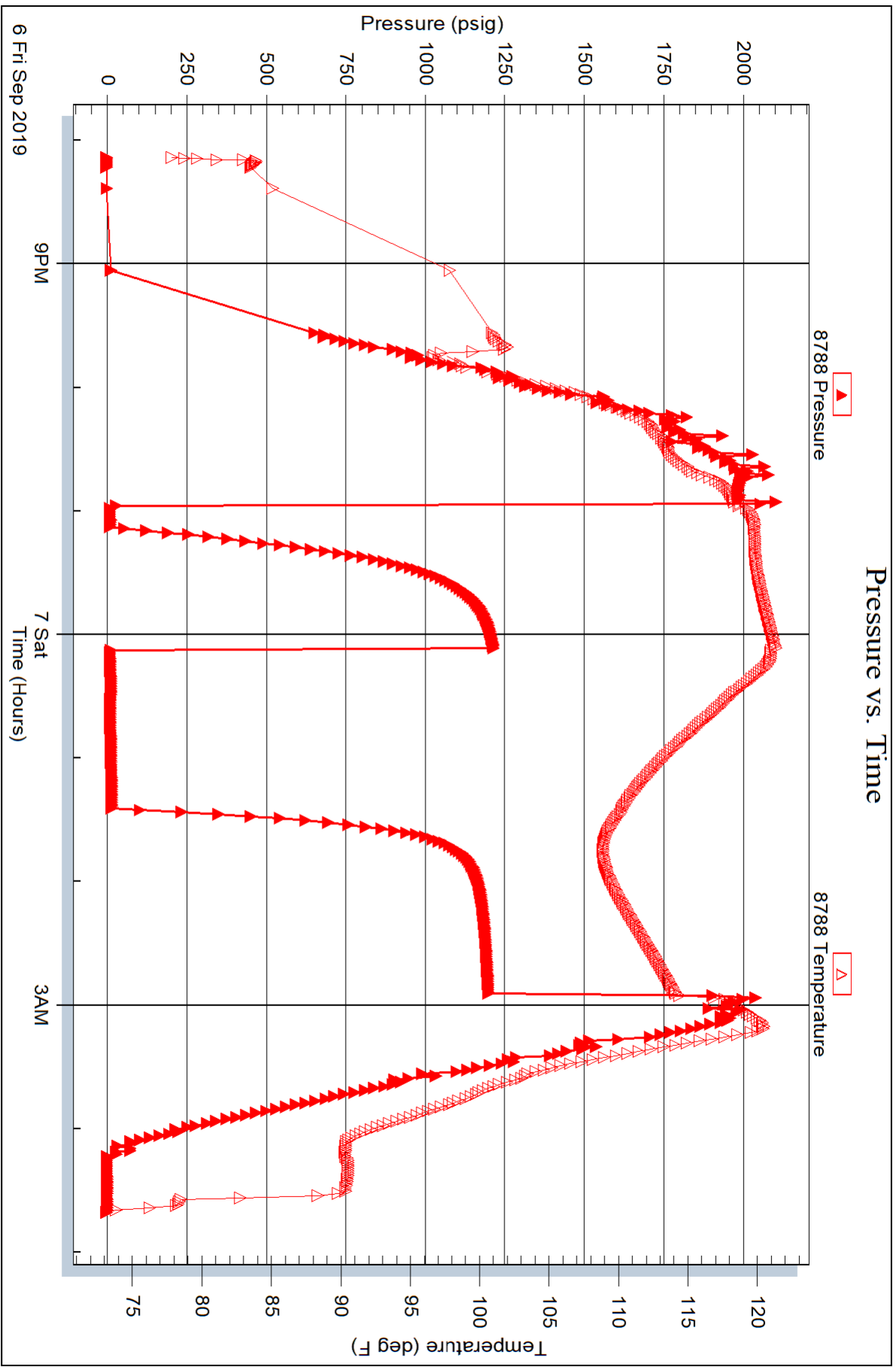
Serial #: MAS PRATT

Laboratory Name:

Laboratory Location:

Recovery Comments: 4,127 Ft G.I.P.







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Steffen Resources Development

18-30s-7w Kingman Co., Ks.

3500 N Mayfield Rd
Hutchinson, Ks. 67502

Steffen Family 1-19

Job Ticket: 64941

DST#: 2

ATTN: Keith Reavis

Test Start: 2019.09.07 @ 14:13:46

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:50:01

Time Test Ended: 23:39:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4139.00 ft (KB) To 4183.00 ft (KB) (TVD)

Reference Elevations: 1472.00 ft (KB)

Total Depth: 4183.00 ft (KB) (TVD)

1465.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8931

Inside

Press@RunDepth: 266.85 psig @ 4140.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.07

End Date: 2019.09.07

Last Calib.: 2019.09.07

Start Time: 14:13:51

End Time: 23:39:31

Time On Btm: 2019.09.07 @ 16:43:01

Time Off Btm: 2019.09.07 @ 20:33:01

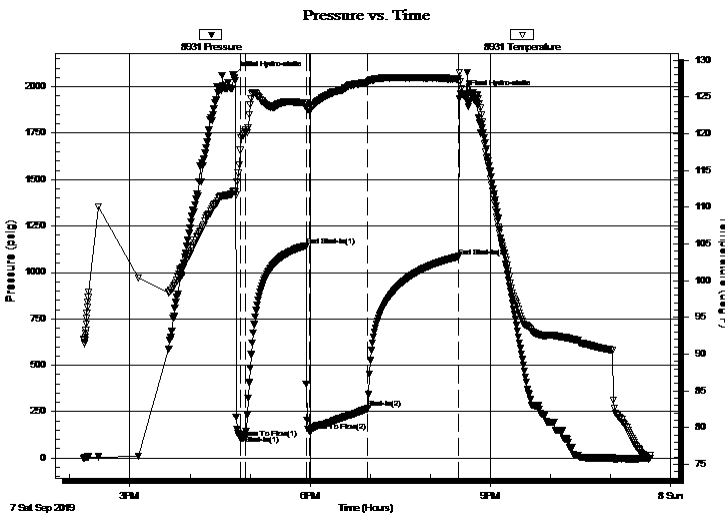
TEST COMMENT: IF: Strong Blow . B.O.B. in 30 sec. Built to 405.42".

IS: No Blow .

FF: Strong Blow . B.O.B. immediate. Built to 383". G.T.S. in 3 mins. Gauged Gas.

FS: Strong Blow . Built to 20.36".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.48	112.06	Initial Hydro-static
7	108.23	117.75	Open To Flow (1)
13	122.11	120.47	Shut-In(1)
73	1144.07	124.14	End Shut-In(1)
76	142.99	123.23	Open To Flow (2)
135	266.85	126.88	Shut-In(2)
226	1085.70	127.48	End Shut-In(2)
230	1958.14	125.21	Final Hydro-static

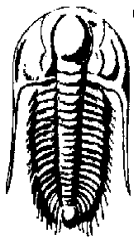
Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOMCW 5%o 3%m 92%w	1.74
62.00	GOWCM 55%g 9%o 41%w 45%m	0.87
310.00	GOCM 40%g 30%o 15%w 15%m	4.35
50.00	GOSM 5%g 95%m	0.70

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	8.85	8.70
Last Gas Rate	0.25	39.14	84.94
Max. Gas Rate	0.25	39.34	85.25



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Steffen Resources Development

18-30s-7w Kingman Co., Ks.

3500 N Mayfield Rd
Hutchinson, Ks. 67502

Steffen Family 1-19

Job Ticket: 64941

DST#: 2

ATTN: Keith Reavis

Test Start: 2019.09.07 @ 14:13:46

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:50:01

Time Test Ended: 23:39:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4139.00 ft (KB) To 4183.00 ft (KB) (TVD)

Reference Elevations: 1472.00 ft (KB)

Total Depth: 4183.00 ft (KB) (TVD)

1465.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8788

Outside

Press@RunDepth: psig @ 4140.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.07

End Date: 2019.09.07

Last Calib.: 2019.09.07

Start Time: 14:13:09

End Time: 23:38:49

Time On Btm:

Time Off Btm:

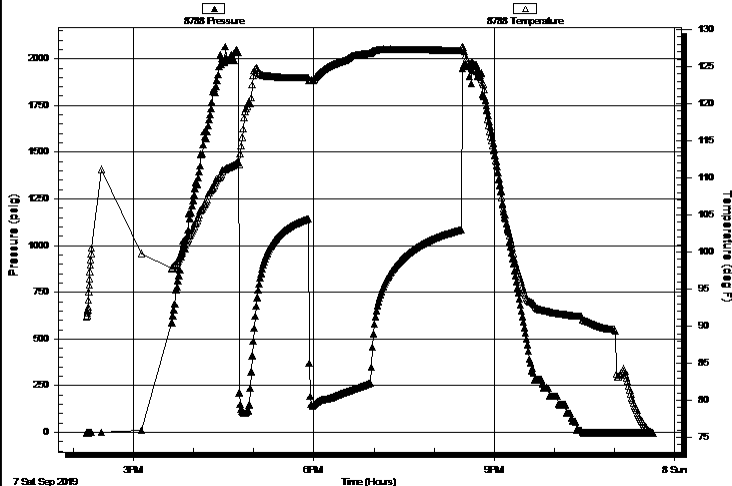
TEST COMMENT: IF: Strong Blow . B.O.B. in 30 sec. Built to 405.42".

IS: No Blow .

FF: Strong Blow . B.O.B. immediate. Built to 383". G.T.S. in 3 mins. Gauged Gas.

FS: Strong Blow . Built to 20.36".

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOMCW 5%o 3%m 92%w	1.74
62.00	GOWCM 55%g 9%o 41%w 45%m	0.87
310.00	GOCM 40%g 30%o 15%w 15%m	4.35
50.00	GOSM 5%g 95%m	0.70

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	8.85	8.70
Last Gas Rate	0.25	39.14	84.94
Max. Gas Rate	0.25	39.34	85.25

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Steffen Resources Development

18-30s-7w Kingman Co., Ks.

3500 N Mayfield Rd
Hutchinson, Ks. 67502

Steffen Family 1-19

Job Ticket: 64941

DST#: 2

ATTN: Keith Reavis

Test Start: 2019.09.07 @ 14:13:46

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:

90000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 6000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	SOMCW 5%o 3%m 92%w	1.739
62.00	GOWCM 55%g 9%o 41%w 45%m	0.870
310.00	GOCM 40%g 30%o 15%w 15%m	4.348
50.00	GOSM 5%g 95%m	0.701

Total Length: 546.00 ft

Total Volume: 7.658 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .036 @ 75 Degrees = 90,000 Chlorides



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Steffen Resources Development

18-30s-7w Kingman Co., Ks.

3500 N Mayfield Rd
Hutchinson, Ks. 67502

Steffen Family 1-19

Job Ticket: 64941

DST#: 2

ATTN: Keith Reavis

Test Start: 2019.09.07 @ 14:13:46

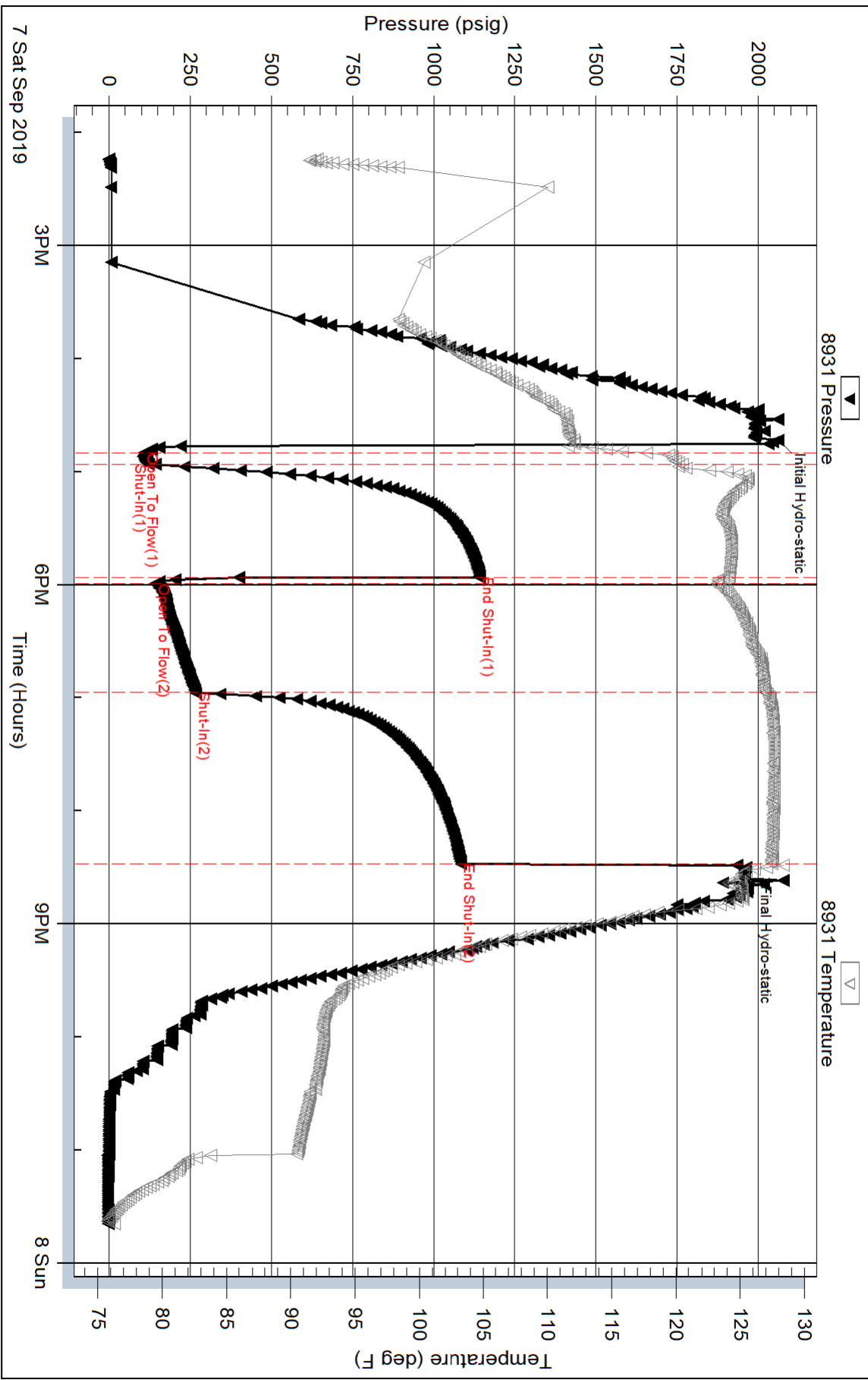
Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	0.13	8.85	8.70
2	5	0.13	8.85	8.70
2	10	0.25	39.34	85.25
2	25	0.25	25.58	63.42
2	30	0.25	27.73	66.83
2	35	0.25	29.62	69.84
2	40	0.25	34.10	76.94
2	45	0.25	36.04	80.02
2	50	0.25	38.01	83.14
2	55	0.25	39.14	84.94

Pressure vs. Time

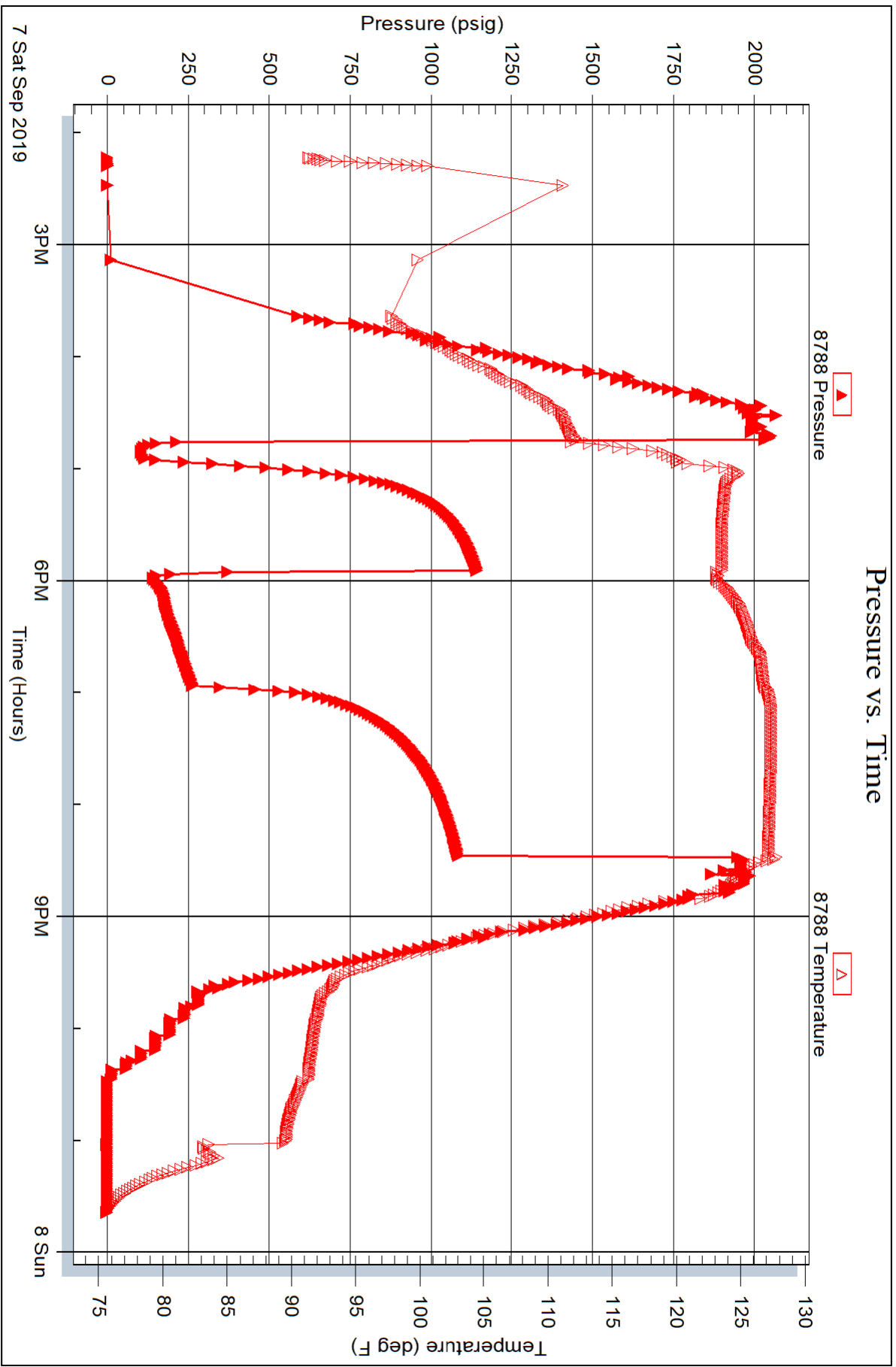


Serial #: 8788

Outside Steffen Resources Development

Steffen Family 1-19

DST Test Number: 2



OPERATOR

Company: Steffen Resource Development, LLC
 Address: 3500 N. Mayfield Road
 Hutchinson, KS 67502

Contact Geologist:
 Contact Phone Nbr: 620-802-1188
 Well Name: Steffen Family #1-19
 Location: Sec. 18 - T30S - R7W
 API: 15-095-22331-0000
 Pool:
 State: Kansas

Field: Spivey-Grabs-Basil
 Country: USA

Scale 1:240 Imperial

Well Name: Steffen Family #1-19
 Surface Location: Sec. 18 - T30S - R7W
 Bottom Location:
 API: 15-095-22331-0000
 License Number: 35666
 Spud Date: 8/30/2019 Time: 4:45 PM
 Region: Kingman County
 Drilling Completed: 9/8/2019 Time: 7:55 AM
 Surface Coordinates: 851' FNL & 2054' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1464.00ft
 K.B. Elevation: 1472.00ft
 Logged Interval: 2900.00ft To: 4283.00ft
 Total Depth: 4283.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.125046974
 Latitude: 37.440449585
 N/S Co-ord: 851' FNL
 E/W Co-ord: 2054' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136 Name: Keith Reavis

CONTRACTOR

Contractor: Duke Drilling Company
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 8/30/2019 Time: 4:45 PM
 TD Date: 9/8/2019 Time: 7:55 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1472.00ft Ground Elevation: 1464.00ft
 K.B. to Ground: 8.00ft

NOTES

Due to positive results of DST #2, favorable structural position and electrical log analysis, it was decided to run 5 1/2" production casing and further test the Mississippian chert through perforations and stimulation.

A Bloodhound gas detection system operated by Bluestem Labs was employed during the drilling of this well. ROP and gas data were recorded and along with gamma ray and caliper curves from the electrical log suite, were imported into this geological log.

Respectfully submitted,
Keith Reavis

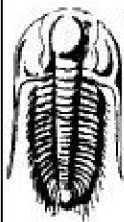
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
08/31/2019		Geologist Keith Reavis on location @1450 hrs, 1130 ft, drilling ahead salt section, Chase group
09/01/2019	1596	drilling ahead
09/02/2019	2194	drilling ahead
09/03/2019	2782	drilling ahead, displace mud system, drilling Topeka, section, Heebner
09/04/2019	3380	drilling ahead, Toronto, Douglas, Lansing
09/05/2019	3743	drilling ahead LKC, Muncie Creek, Stark, BKC, Marmaton section
09/06/2019	4044	drilling ahead, Pawnee, Ft. Scott, Cherokee, Mississippian, show and gas kick in Miss warrants test, short trip, CTCH, TOH for DST #1, TIH with tools, conducting DST #1
09/07/2019	4137	complete DST #1, successful test, TIH with bit, resume drilling to base of Miss, gas kick and shows warrant test, TOH w/bit, in w/tools, conduct and complete DST #2, successful test
09/08/2019	4273	TIH w/bit, ctch, rathole ahead to TD, 4283 @ 0755 hrs, TOH w/bit, conduct logging operations, off loc @ 1600 hrs

well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Steffen Family Farms #1-19					Mull - Tjaden C#2				Sierra - Towner #1			
851' FNL & 2054' FEL					693' FNL & 712' FWL				C NE NE			
Sec 18-T30S-R7W					Sec 18-T30S-R7W				Sec 18-T30S-R7W			
1472 KB					1480 KB		Structural Relationship		1461 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Krider	1350	122	1335	137	1357	123	-1	14	1320	141	-19	-4
Indian Cave	2138	-666	2133	-661	2156	-676	10	15	2127	-666	0	5
Heebner	3111	-1639	3109	-1637	3128	-1648	9	11	3095	-1634	-5	-3
Toronto	3130	-1658	3130	-1658	3144	-1664	6	6	3110	-1649	-9	-9
Douglas	3142	-1670	3141	-1669	3157	-1677	7	8	3127	-1666	-4	-3
Lansing	3329	-1857	3334	-1862	3348	-1868	11	6	3318	-1857	0	-5
Muncie Creek	3646	-2174	3645	-2173	3660	-2180	6	7	3633	-2172	-2	-1
Stark	3761	-2289	3760	-2288	3775	-2295	6	7	3750	-2289	0	1
BKC	3862	-2390	3865	-2393	3877	-2397	7	4	3854	-2393	3	0
Cherokee	4009	-2537	4007	-2535	4020	-2540	3	5	3998	-2537	0	2
Mississippian	4128	-2656	4128	-2656	4147	-2667	11	11	4124	-2663	7	7
Total Depth	4283	-2811	4285	-2813	4602	-3122	311	309	4176	-2715	-96	-98

Drill Stem Test #1

DRILL STEM TEST REPORT	
 <p>TRILOBITE TESTING, INC.</p>	<p>Steffen Resources Development 3500 N Mayfield Rd Hutchinson, Ks. 67502</p> <p>ATTN: Keith Reavis</p>
<p>18-30s-7w Kingman Co., Ks.</p> <p>Steffen Family 1-19</p> <p>Job Ticket: 64940 DST#: 1</p> <p>Test Start: 2019.09.06 @ 20:08.31</p>	

GENERAL INFORMATION:

Formation:	Mississippi	Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock	Tester:	Matt Smith
Time Tool Opened:	22:59:46	Unit No:	68
Time Test Ended:	04:41:16		

Interval: 4129.00 ft (KB) To 4137.00 ft (KB) (TVD)
 Total Depth: 4137.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1472.00 ft (KB)
 1465.00 ft (CF)
 KB to GR/CF: 7.00 ft

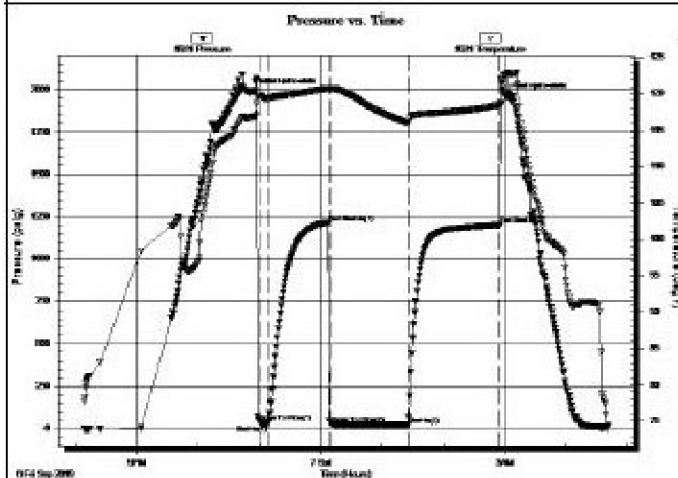
Serial #: 8931

Inside

Press@RunDepth: 20.57 psig @ 4130.00 ft (KB)
 Start Date: 2019.09.06 End Date: 2019.09.07
 Start Time: 20:08:36 End Time: 04:41:16

Capacity: 8000.00 psig
 Last Calib.: 2019.09.07
 Time On Btm: 2019.09.06 @ 22:53:46
 Time Off Btm: 2019.09.07 @ 02:59:46

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 52.52'.
 IS: No Blow .
 FF: Strong Blow . B.O.B. immediate. Built to 200.65'. G.T.S. in 44 mins. Gauged Gas.
 FS: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.12	116.83	Initial Hydro-static
6	37.59	119.76	Open To Flow (1)
15	24.40	119.31	Shut-In(1)
74	1216.45	120.73	End Shut-In(1)
77	30.30	120.70	Open To Flow (2)
152	20.57	115.94	Shut-In(2)
242	1201.69	118.43	End Shut-In(2)
246	1960.01	122.55	Final Hydro-static

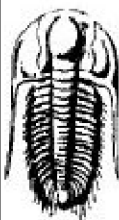
Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig Mud 100%rn	0.03
0.00	G.I.P. 100%g	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.31	7.75
Last Gas Rate	0.13	9.07	8.78
Max. Gas Rate	0.13	9.07	8.78

Drill Stem Test #2



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Steffen Resources Development 18-30s-7w Kingman Co., Ks.

3500 N Mayfield Rd Steffen Family 1-19
 Hutchinson, Ks. 67502

ATTN: Keith Reavis Job Ticket: 64941 DST#:2

Test Start: 2019.09.07 @ 14:13:46

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 16:50:01
 Time Test Ended: 23:39:31

Test Type: Conventional Bottom Hole (Res et)
 Tester: Matt Smith
 Unit No: 68

Interval: 4139.00 ft (KB) To 4183.00 ft (KB) (TVD)
 Total Depth: 4183.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1472.00 ft (KB)
 1465.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8931

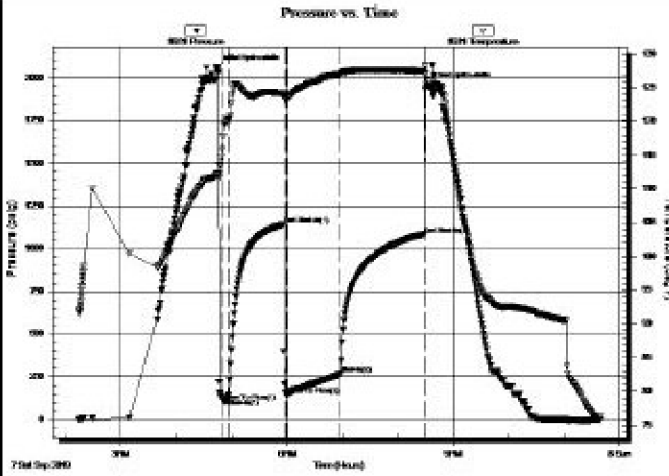
Inside

Press@RunDepth: 266.85 psig @ 4140.00 ft (KB)
 Start Date: 2019.09.07 End Date: 2019.09.07
 Start Time: 14:13:51 End Time: 23:39:31

Capacity: 8000.00 psig
 Last Calib.: 2019.09.07
 Time On Btm: 2019.09.07 @ 16:43:01
 Time Off Btm: 2019.09.07 @ 20:33:01

TEST COMMENT: IF: Strong Blow . B.O.B. in 20 sec. Built to 185.12'

TEST COMMENT: IP: Strong Blow. B.O.B. in 30 sec. Built to 405.42
 IST: No Blow.
 FF: Strong Blow. B.O.B. immediate. Built to 383". G.T.S. in 3 mins. Gauged Gas.
 FSt: Strong Blow. Built to 20.36".



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.48	112.08	Initial Hydro-static
7	108.23	117.75	Open To Flow (1)
13	122.11	120.47	Shut-In(1)
73	1144.07	124.14	End Shut-In(1)
76	142.99	123.23	Open To Flow (2)
135	266.85	126.88	Shut-In(2)
228	1085.70	127.48	End Shut-In(2)
230	1958.14	125.21	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
124.00	SOMCW 5%o 3% m 92%w	1.74
62.00	GOWCM 55%g 9%o 41%w 45%m	0.87
310.00	GOCM 40%g 30%o 15%w 15%m	4.35
50.00	GOSM 5%g 95%m	0.70

* Recovery from multiple tests

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.65	6.70
Last Gas Rate	0.25	39.14	84.94
Max. Gas Rate	0.25	39.34	85.25

ROCK TYPES

Cht	sdy lmst	shale, grn	shale, red	Slst
Cht vari	Lmst fw < 7	shale, gry	Shcol	Cannot Int
Dolprim	Lmst fw > 7	Carbon Sh	Ss	

ACCESSORIES

MINERAL	FOSSIL	STRINGER	TEXTURE
- Argillaceous	∩ Bioclastic or Fragmental	■ Limestone	C Chalky
⊥ Calcareous	F Fossils < 20%	● Sandstone	CX Cryptocrystalline
▲ Chert, dark	⊕ Oolite	● Siltstone	L Lithogr
△ Chert White	⊗ Pellets	■ Shale	
	⊗ Oomoldic	■ red shale	
		■ carb shale	

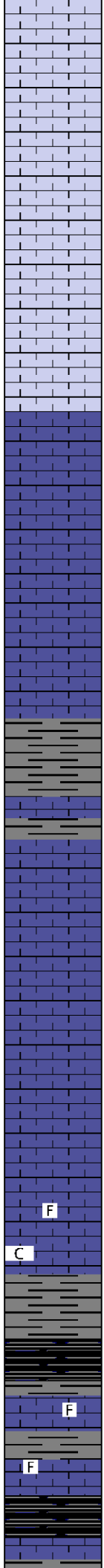
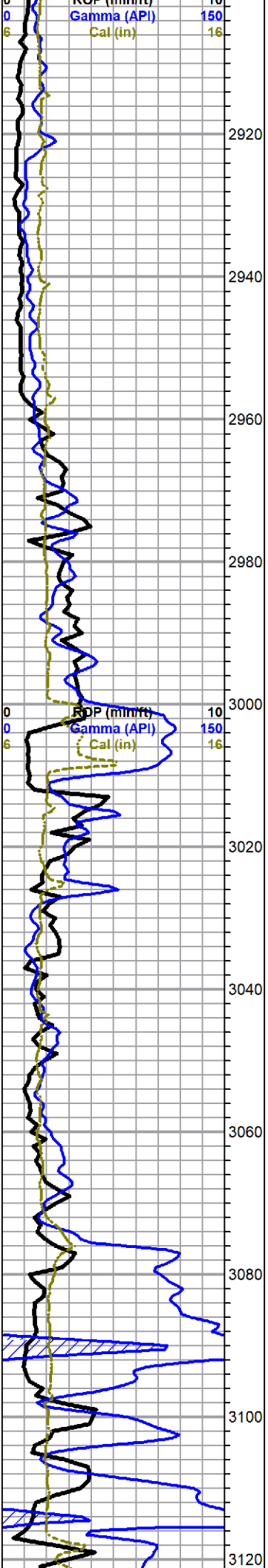
OTHER SYMBOLS

Oil Show	DST
● Good Show	■ DST Int
● Fair Show	■ DST alt
● Poor Show	■ Core
○ Spotted or Trace	■ tail pipe
○ Questionable Stn	
□ Dead Oil Stn	
■ Fluorescence	
* Gas	

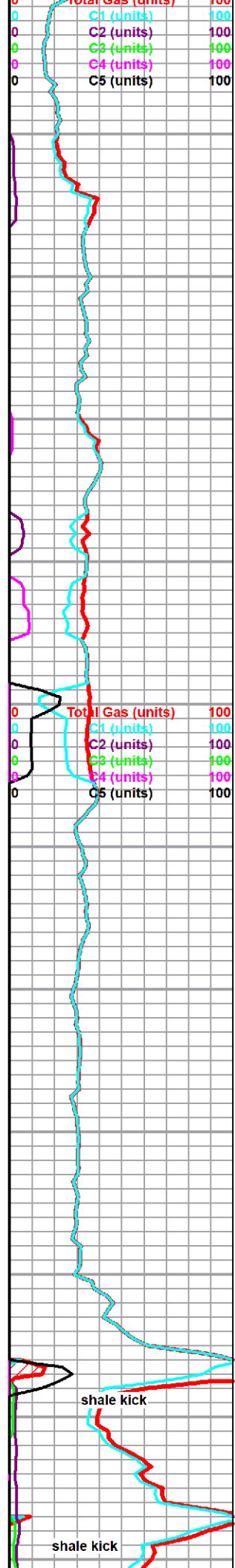
Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

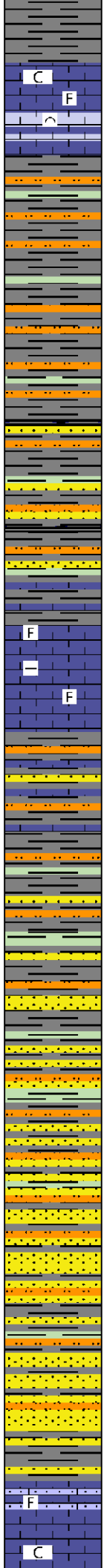
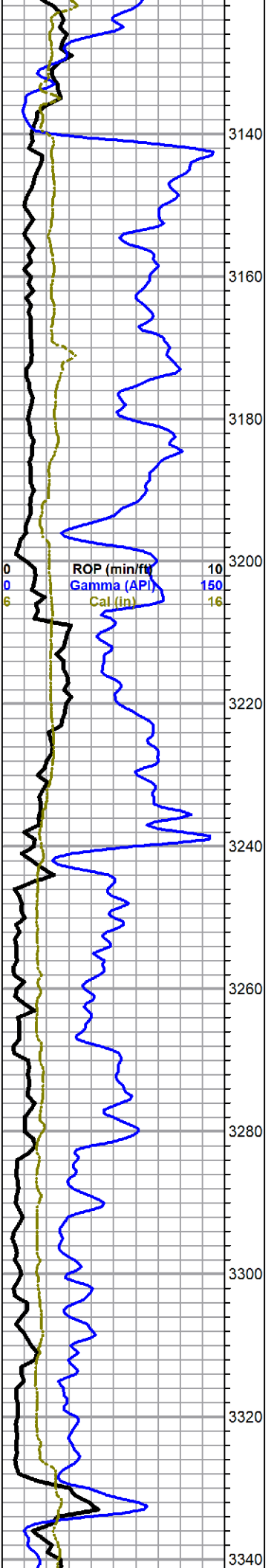
Curve Track #1	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5
ROP (min/ft)						Total Gas (units)
Gamma (API)						C1 (units)
Cal (in)						C2 (units)
						C3 (units)
						C4 (units)
						C5 (units)

1:240 Imperial



F limestone, white to light gray, chalky, fossiliferous, grainy, poor visible porosity, no shows
C
 begin 10 ft wet and dry samples at 3100 ft
 shale, black carbonaceous
F limestone, gray, cryptocrystalline, fossiliferous, dense, no shows
F limestone a.a.
Heebner 3111 -1639
 shale, black carbonaceous





Toronto 3130 -1658

limestone, white to cream to light gray, mostly cryptocrystalline, chalky, fossiliferous, some calcite seams, some grainy bioclastic, poor overall visible porosity, no shows, moderate chalk

Douglas 3142 -1670

shale, variable, gray, some pale green, with salt and pepper siltstone

shales and siltstones a.a., with influx black shales, sandstone stringers, gray, very fine grain, rounded, fair sorting, fairly cemented, micaceous, no shows

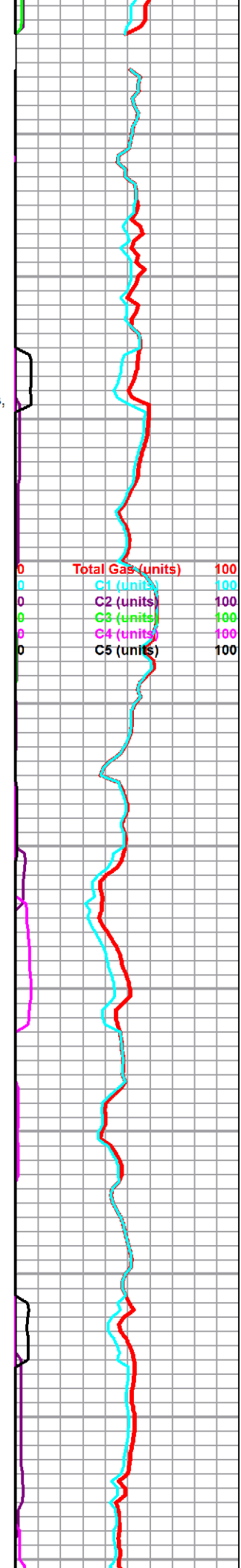
limestone, brown to gray, cryptocrystalline, dense, argillaceous, fossiliferous, some laminar cleavage, no shows

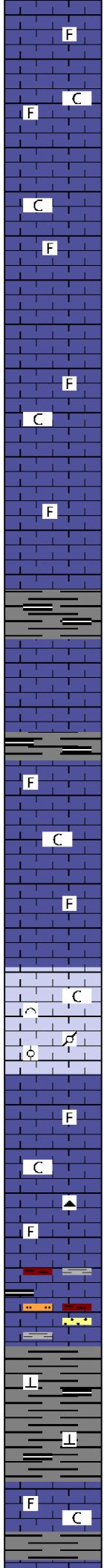
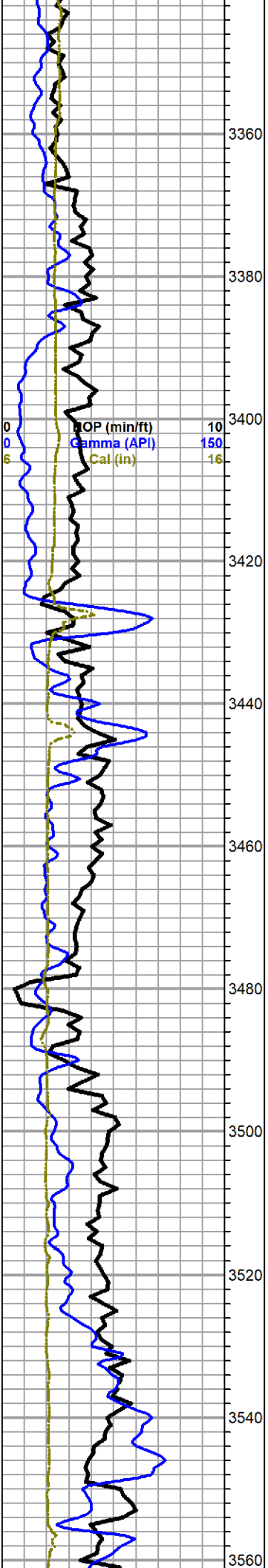
shale, siltstone and sandstones a.a., increasing sandstone

grades to mostly sandstone a.a.

Lansing 3329 -1857 (log 3334 -1862)

limestone, gray and tan with yellow tint, fossiliferous, sandy, dense, grades to:
limestone, cream to blue/gray, very fossiliferous, chalky, some inter-clast porosity, some friable, no shows, moderate chalk in samples





limestone a.a. with moderate chalk

limestone, brown and dark gray, cryptocrystalline, dense fossiliferous and re-crystallized dense oolitic, no show

limestone, variable gray and cream, some mottled, cryptocrystalline, fossiliferous, chalky in part, poor visible porosity, no shows

limestone a.a. with fine cream/white grainy bioclastic, gray mottled pelletal, chalky, some tan oolitic, very fine, dense, no shows

limestone, gray to brown, cryptocrystalline, fossiliferous to re-crystallized oolitic, dense, cherty, with limestone, gray to light gray, chalky, fossiliferous, no shows

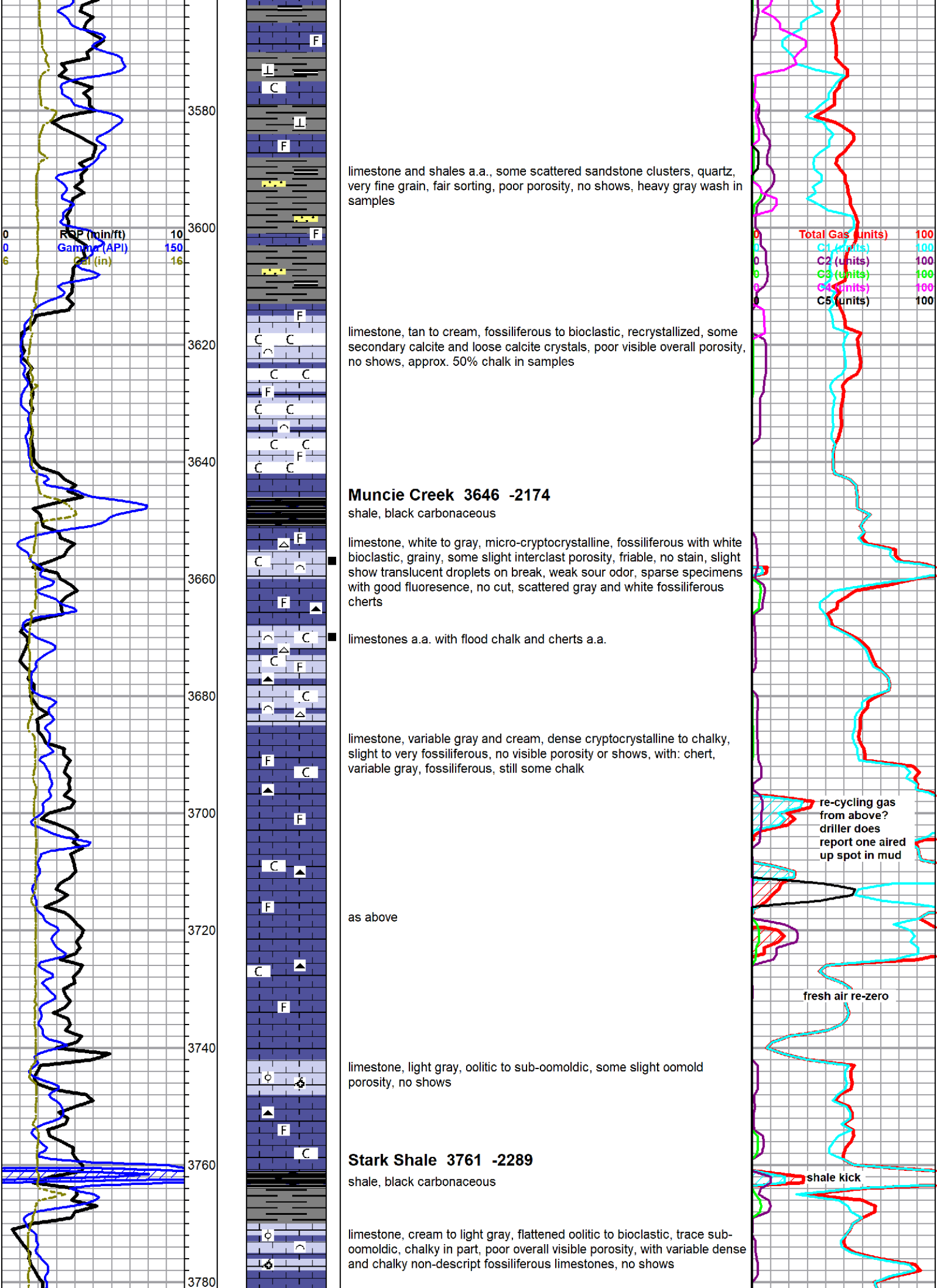
limestone a.a. with influx gray, black and red shales, some gray siltstone and very fine grain quartz sandstone clusters

grades to shale, gray with some black, dense but brittle in part, calcareous, heavy gray wash

limestone, variable gray, cryptocrystalline, fossiliferous and cherty to chalky and gritty, with shales a.a., no shows, heavy gray wash

Mud-Co Mud chk
 @ 3463 ft.
 1245 hrs, 9/4/19
 Vis. 47 Wt. 9.1
 PV 13 YP 14
 WL 9.6
 Cake 1/32,
 pH 10.5
 CHL 3000 ppm
 Ca 80 ppm
 Sol 5.5 LCM 3#
 DMC \$2582.12
 CMC \$11839.51

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100



limestone and shales a.a., some scattered sandstone clusters, quartz, very fine grain, fair sorting, poor porosity, no shows, heavy gray wash in samples

limestone, tan to cream, fossiliferous to bioclastic, recrystallized, some secondary calcite and loose calcite crystals, poor visible overall porosity, no shows, approx. 50% chalk in samples

Muncie Creek 3646 -2174

shale, black carbonaceous

limestone, white to gray, micro-cryptocrystalline, fossiliferous with white bioclastic, grainy, some slight interclast porosity, friable, no stain, slight show translucent droplets on break, weak sour odor, sparse specimens with good fluorescence, no cut, scattered gray and white fossiliferous cherts

limestones a.a. with flood chalk and cherts a.a.

limestone, variable gray and cream, dense cryptocrystalline to chalky, slight to very fossiliferous, no visible porosity or shows, with: chert, variable gray, fossiliferous, still some chalk

as above

limestone, light gray, oolitic to sub-oomoldic, some slight oomold porosity, no shows

Stark Shale 3761 -2289

shale, black carbonaceous

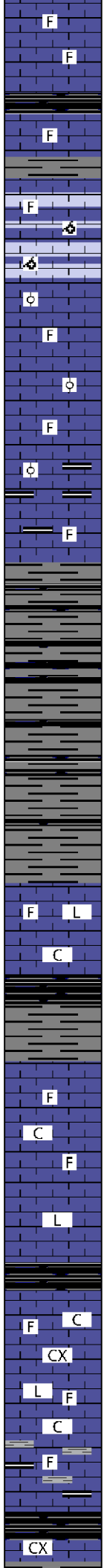
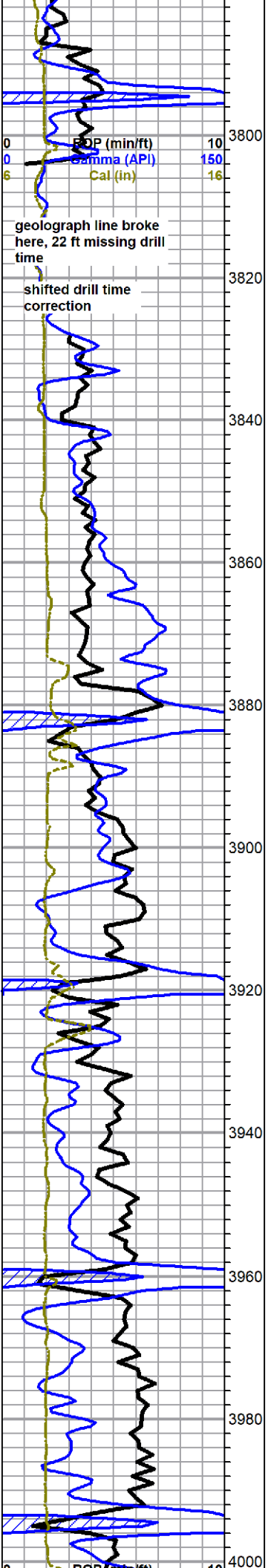
limestone, cream to light gray, flattened oolitic to bioclastic, trace sub-oomoldic, chalky in part, poor overall visible porosity, with variable dense and chalky non-descript fossiliferous limestones, no shows

Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100
 C5 (units) 100

re-cycling gas from above? driller does report one aired up spot in mud

fresh air re-zero

shale kick



shale, black carbonaceous

limestone, mixed fossiliferous with abundant gray oomoldic, good oomold porosity, no shows

limestone, mixed variable no-descript fossiliferous, abundant oolitic, dense, no shows

limestone a.a. with influx black and dark gray limestone, very cherty, fossiliferous, dense/hard black shales, no shows

Base KC 3862 -2390
black and gray shales, some silty

limestone, cream to tan, mostly cryptocrystalline, lithographic to re-crystallized fossiliferous, dense to chalky, poor visible porosity, no shows

black and gray shales

limestone, mixed non-descript fossiliferous, fairly chalky overall

influx limestone, dark grays, cryptocrystalline, dense lithographic, no shows

shale, black carbonaceous

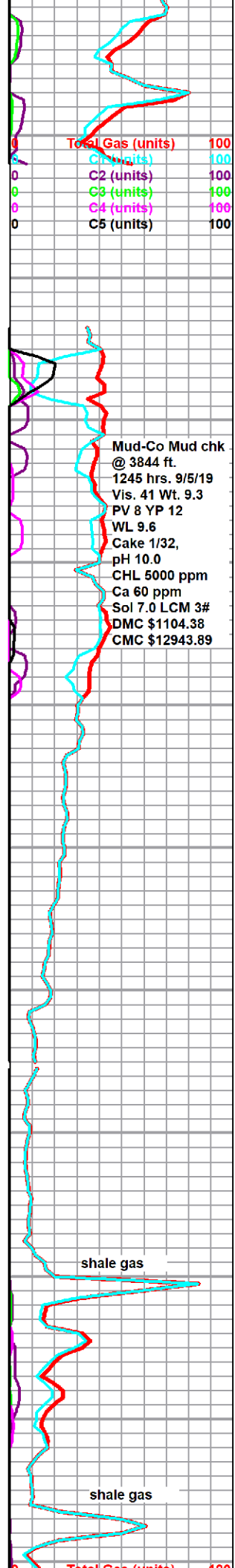
limestone, cream to tan, microcrystalline, chalky, slightly fossiliferous to arenaceous, with variable dark gray to black, cryptocrystalline, dense, lithographic to fossiliferous, some calcite seams, no shows

increase in chalky facies

flood gray and black shales with limestone a.a.

shale, black carbonaceous

mixed gray and black shales with: limestone, gray to cream and tan,



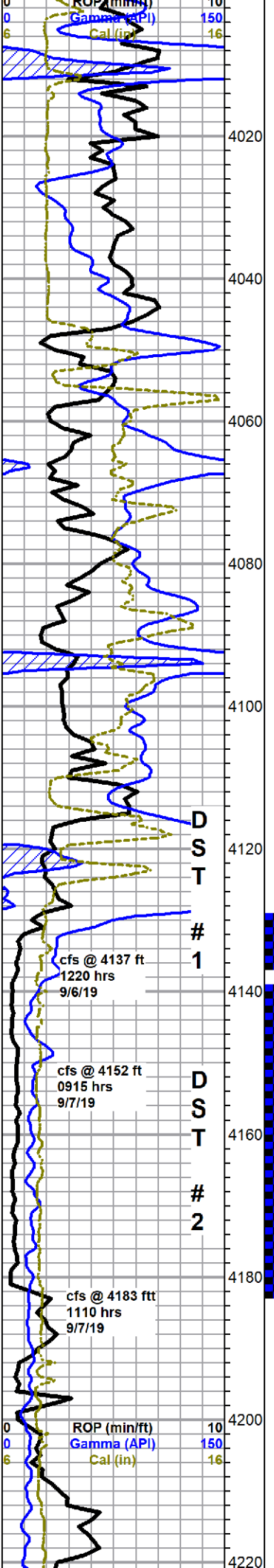
Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100
C5 (units) 100

Mud-Co Mud chk @ 3844 ft.
1245 hrs. 9/5/19
Vis. 41 Wt. 9.3
PV 8 YP 12
WL 9.6
Cake 1/32,
pH 10.0
CHL 5000 ppm
Ca 60 ppm
Sol 7.0 LCM 3#
DMC \$1104.38
CMC \$12943.89

shale gas

shale gas

Total Gas (units) 100



mostly cryptocrystalline with some chalky, no visible porosity or shows

Cherokee 4009 -2537

brown and gray shales

limestone, gray to cream, cryptocrystalline, lithographic to fossiliferous, chalky in part, arenaceous in part, no visible porosity, no shows

shales a.a. with limestone streaks a.a., influx olive limestones

variable shales, shale a.a. including olive, red and green

shale, white to light gray and lavender, soft, soapy

Mississippian 4128 -2656

chert, white to cream, tripolitic to slightly tripolitic, some good pinpoint tripolitic porosity, spotty to saturated light golden stain, slight show bleeding gas, slight show free oil, fleeting odor, excellent bright white to green fluorescence, poor cut

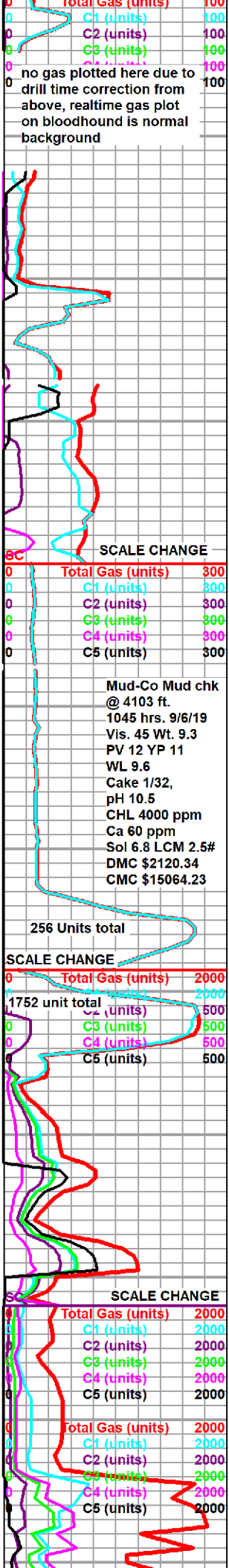
chert, gray/white to white, tripolitic, good deep tripolitic vugs, saturated gray/brown to black saturated staining, good show gas, streaming sheen with slight show oil droplets, fleeting odor, poor to fair fluorescence, excellent cut

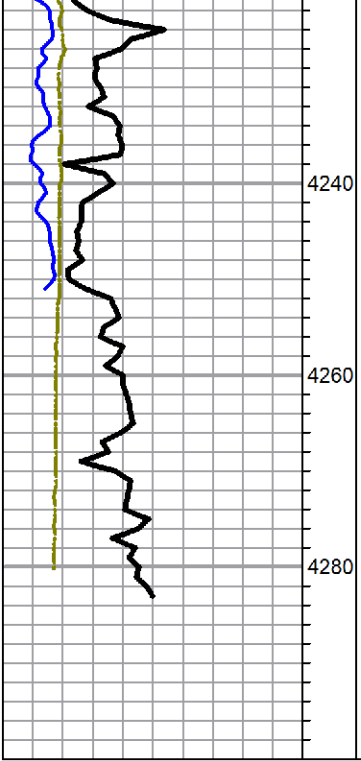
4183 30 min cfs sample, chert, white to cream and light gray, tripolitic to slightly tripolitic to rotten/friable, some fresh, good light brown staining spotty to saturated, heavy bleeding oil and gas, good odor, good fluorescence, slow blueish cut with halo

60 min sample, a.a. with: flood of chert, white to cream, mostly fresh, sharp, some with light etching and light stain, poor show oil from rocks above, no odor in samples

chert a.a. with dolomite, tan to cream, micro-cryptocrystalline, some sucrosic, some pin-point porosity, some saturated light brown staining, trace sheen on break, no free oil or odor in wet cup

dolomite, white to light gray, micro-cryptocrystalline, sub-rhombic to sub-lithographic, dense, limestone, mostly dolomitic, micro-cryptocrystalline, some recrystallized fossiliferous, dense, no shows, chert, white to frosted gray, to blue/gray, some fossiliferous, sharp,



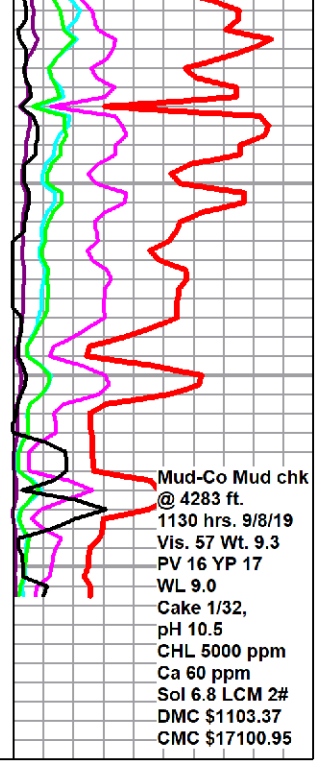


fresh, no shows - appx 30% chalk in samples

4260 sample, flood shales, multicolored, lavender and maroon, with gray and green, still carrying abundant cherts (caving from Cherokee shale? - all washed out on log caliper)

a.a.

Rotary TD 4283 ft. @ 0755 hrs 9/8/19
 ELI Wireline TD 4285 ft.
 complete logging operations 1530 hrs 9/8/19



Mud-Co Mud chk
 @ 4283 ft.
 1130 hrs. 9/8/19
 Vis. 57 Wt. 9.3
 PV 16 YP 17
 WL 9.0
 Cake 1/32,
 pH 10.5
 CHL 5000 ppm
 Ca 60 ppm
 Sol 6.8 LCM 2#
 DMC \$1103.37
 CMC \$17100.95



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1012616	1718	09/09/2019
INVOICE NUMBER			
93044613			

Pratt (620) 672-1201
 B STEFFEN RESOURCES DEVELOPMENT LLC
 I 3500 N MAYFIELD RD
 L HUTCHINSON
 L KS US 67502
 T
 O ATTN:

J LEASE NAME STEFFAN FAMILY #1-19
 O LOCATION
 B COUNTY KINGMAN
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

Original Invoice

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41189432			Cash Sale	09/09/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/30/2019 to 08/30/2019</i>				
0041189432				
171818020A Cement-New Well Casing/Pi 08/30/2019 SURFACE CASING				
60/40 Poz	165.00	SK	11.88	1,960.20 T
Celloflake	42.00	LB	1.76	73.92 T
Calcium Chloride	426.00	LB	0.44	187.44 T
Light Vehicle Mileage	50.00	MI	2.20	110.00
Heavy Equipment Mileage	50.00	MI	3.52	176.00
Depth Charge, 0'-1000'	1.00	HR	528.00	528.00
Blending & Mixing Service Charge	1.00	SK	101.64	101.64
Service Supervisor Charge	1.00	EA	75.00	75.00
Driver Charge	3.00	EA	35.00	105.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,317.20
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	177.72
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,494.92
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



TTM# 40

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

FIELD SERVICE TICKET
1718 18019 A

18-305-7W

DATE _____ TICKET NO. _____

DATE OF JOB <i>8/30/2019</i> DISTRICT <i>Pratt, KS</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>Steffen Resources Development</i>		LEASE <i>Steffen Family</i> WELL NO. <i>1-19</i>							
ADDRESS		COUNTY <i>Kingsman</i> STATE <i>KS</i>							
CITY STATE		SERVICE CREW <i>Dgrn. Brett, D:92</i>							
AUTHORIZED BY		JOB TYPE: <i>242/13 3/8 Conductor</i>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<i>19843</i>	<i>1/2</i>						<i>8/29</i>	<i>PM</i>	<i>3:00</i>
<i>21010</i>	<i>1/4</i>					ARRIVED AT JOB	<i>8/29</i>	<i>PM</i>	<i>6:00</i>
						START OPERATION	<i>8/30</i>	<i>AM</i>	<i>12:15</i>
						FINISH OPERATION	<i>8/30</i>	<i>AM</i>	
						RELEASED	<i>8/30</i>	<i>AM</i>	
						MILES FROM STATION TO WELL			<i>56</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: *[Signature]*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>BC100</i>	<i>Class A Cement</i>	<i>SK</i>	<i>100</i>		<i>3,100 00</i>
<i>CC102</i>	<i>Cellofibre</i>	<i>LB</i>	<i>26</i>		<i>104 00</i>
<i>CC109</i>	<i>Calcium Chloride</i>	<i>LB</i>	<i>188</i>		<i>188 00</i>
<i>ME101</i>	<i>Light Vehicle Mileage</i>	<i>MI</i>	<i>50</i>		<i>250 00</i>
<i>ME102</i>	<i>Heavy Equipment Mileage</i>	<i>MI</i>	<i>100</i>		<i>800 00</i>
<i>CC1</i>	<i>Depth Charge, 0'-1,000'</i>	<i>HR</i>	<i>1</i>		<i>1,200 00</i>
<i>CE240</i>	<i>Blending & Mixing Service Charge</i>	<i>SK</i>	<i>100</i>		<i>140 00</i>
<i>BE143</i>	<i>Service Supervisor Charge</i>	<i>EA</i>	<i>1</i>		<i>75 00</i>
<i>BE144</i>	<i>Driver Charge</i>	<i>EA</i>	<i>3</i>		<i>105 00</i>

pd in full \$115

SUB TOTAL *5,962 00*

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Discounes TOTAL		<i>2,955 31</i>

SERVICE REPRESENTATIVE *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

TTMH 25
10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201
18-305-70

FIELD SERVICE TICKET
1718 18020 A

DATE _____ TICKET NO. _____

DATE OF JOB <i>8/30/2015</i> DISTRICT <i>Pratt, KS</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>Steffen Resource Development</i>				LEASE <i>Steffen Family</i>		WELL NO. <i>1-19</i>				
ADDRESS				COUNTY <i>Kingsman</i>		STATE <i>KS</i>				
CITY				SERVICE CREW <i>Darin, Brett, D'ez</i>						
AUTHORIZED BY				JOB TYPE: <i>242/85% Solder</i>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<i>19843</i>	<i>1/2</i>						<i>8/30</i>			<i>12:00</i>
<i>21010</i>	<i>1/4</i>						<i>8/30</i>			<i>2:30</i>
							<i>8/30</i>			<i>3:45</i>
							<i>8/30</i>			<i>4:15</i>
							<i>8/30</i>			<i>4:30</i>
						MILES FROM STATION TO WELL				<i>54</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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>BC132</i>	<i>60/40 po2</i>	<i>SK</i>	<i>165</i>		<i>4455 00</i>
<i>CC102</i>	<i>Cellophane</i>	<i>Lb</i>	<i>42</i>		<i>168 00</i>
<i>CC109</i>	<i>Calcium Chloride</i>	<i>Lb</i>	<i>426</i>		<i>426 00</i>
<i>ME101</i>	<i>Light Vehicle Mileage</i>	<i>MI</i>	<i>50</i>		<i>250 00</i>
<i>ME102</i>	<i>Heavy Equipment Mileage</i>	<i>MI</i>	<i>50</i>		<i>400 00</i>
<i>CC1</i>	<i>Depth Charge, 0-1000'</i>	<i>HR</i>	<i>1</i>		<i>1,200 00</i>
<i>CE240</i>	<i>Blending & Mixing Service Charge</i>	<i>SK</i>	<i>165</i>		<i>231 00</i>
<i>BE143</i>	<i>Service Supervisor Charge</i>	<i>EA</i>	<i>1</i>		<i>75 00</i>
<i>BE144</i>	<i>Driver Charge</i>	<i>EA</i>	<i>3</i>		<i>105 00</i>

CHEMICAL / ACID DATA:			

SUB TOTAL	<i>7,310 00</i>
SERVICE & EQUIPMENT %TAX ON \$	
MATERIALS %TAX ON \$	
Discounr TOTAL	<i>3,317 20</i>

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
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FIELD SERVICE ORDER NO. _____

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer Steffen Resource Development	Lease No.	Date 8/29/2019
Lease Steffen Family	Well # 1-19	
Field Order # 18019	Station Pratticks	Casing 13 3/8
Type Job 242/13 3/8 conductor	Depth 85	County Kingsman
	Formation TD-96'	State KS
		Legal Description 18-30s-7w

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
13 3/8	11	From	To	Pre Pad	Max		5 Min.
Depth 85	Depth 11	From	To	Pad	Min		10 Min.
Volume 13.3	Volume 3/4	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush Water	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative Kurt	Station Manager Justin Westerman	Treater Darin Franklin
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Service Units	92911	78982	19843	19960	21010				
Driver Names	Darin	Brett	Brett	D'ez	D'ez				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00pm					ON location / Safety meeting
					100SK Common Cement + 2% Calcium Chloride + 0.25pps CelloPlexe
					15.6 ppg, 1.20 yield, 5.23 water
12:15pm			3	4	Pump 3 bbls water
			21	4	mix 100sk cement
			10	3	Displace water
12:45pm					Shut down
12:45pm					Shut in
					Cement did Circulate to Cellar
					Job complete / Darin & crew
					Thnick well
					Casing set at 75'

Customer Stellen Resource Development	Lease No.	Date 8/30/2019	
Lease Stellen Family	Well # 1-15		
Field Order # 18070	Station Pratt, KS	Casing 8 1/2	Depth 263
Type Job 242 / 8 5/8 Surface		Formation TD-263	County Kinsman
			State KS
			Legal Description 18-305-74

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
8 1/2				Pre Pad	Max		5 Min.	
Depth 263	Depth	From	To	Pad	Min		10 Min.	
Volume 16	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To					
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 243	Packer Depth	From	To	Flush W91er	Gas Volume		Total Load	

Customer Representative Kurt	Station Manager Justin Westerman	Treater Darin Frenkelin
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Service Units	92911	78982	21010	19960	21010				
Driver Names	Darin	Brett	Brett	Steven	Steven				

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
2:30pm					On location/SSP, meeting 165 sk 60/40 po2 + 3% Calcium chloride, 0.25pps Cellulose 14.8pps, 1.21 yield, 518 water
3:45pm	100		3	4	Pump 3 bbbs water
	100		36	4	mix 165 sk cement
	100		15	3	Displace water
4:12pm					Shut down shut in Cement did circulate - 10 bbbs
					Job complete/Darin crew Thank you!!!