

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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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	R&L FARMS 1-36(SE)
Doc ID	1339295

All Electric Logs Run

CNL/CDL
DIL
BHCS
MEL

OPERATOR

Company: Falcon Explorataion, Inc.
 Address: 125 N. Market
 Suite 1252
 Wichita, KS 67202
 Contact Geologist: Dan Fredlund
 Contact Phone Nbr: 316-262-1378
 Well Name: R L Farms #1-36 (SE)
 Location: Sec. 36 - T28S - R31W
 API: 15-081-22149-0000
 Pool:
 State: Kansas
 Field: Wildcat
 Country: USA

Scale 1:240 Imperial

Well Name: R L Farms #1-36 (SE)
 Surface Location: Sec. 36 - T28S - R31W
 Bottom Location:
 API: 15-081-22149-0000
 License Number: 5316
 Spud Date: 11/2/2016 Time: 2:00 AM
 Region: Haskell County
 Drilling Completed: 11/12/2016 Time: 5:40 PM
 Surface Coordinates: 1900' FSL & 1400' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2840.00ft
 K.B. Elevation: 2851.00ft
 Logged Interval: 4000.00ft To: 5510.00ft
 Total Depth: 5510.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 1900' FSL
 E/W Co-ord: 1400' 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: Sterling Drilling Company
 Rig #: 4
 Rig Type: mud rotary
 Spud Date: 11/2/2016 Time: 2:00 AM
 TD Date: 11/12/2016 Time: 5:40 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2851.00ft Ground Elevation: 2840.00ft
 K.B. to Ground: 11.00ft

NOTES

After review and analysis of drill stem testing and electrical logs, it was determined that the R & L Farms #1-36 would be plugged and abandoned as a dry test.

A Tooke Dag gas detection system operated by Sterling Drilling Company was employed on this well. ROP and gas data

were recorded and imported into mudlog. Gamma ray and caliper curves were also imported. Most electrical log tops were 3 - 6 ft. high to sample tops picked from the drilling time. The ROP curve was not shifted to provide an exact match to the gamma ray, but rather left as recorded in the field.

Samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
Keith Reavis

Falcon Exploration, Inc

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
11/07/2016	4012	Geologist Keith Reavis on location @ 0635 hrs, 4007 ft., drilling ahead Topeka, LeCompton, Heebner, Douglas, Lansing
11/08/2016	4495	drilling ahead, Lansing, run 24 stand wiper trip @ 4600, drill ahead
11/09/2016	4865	drilling ahead, lower LKC, Marmaton
11/10/2016	5144	drilling ahead, Cherokee, bit went bad, bit trip @ 5144', resume drilling, Cherokee, Morrow
11/11/2016	5319	drilling ahead, Chester, St. Gen, St. Louis, show in St. Louis warrants test TOH for DST #1
11/12/2016	5455	conduct and complete DST #1, successful test, TTH with bit, rathole to 5510 ft. TD, cch, TOH w/bit, rig up Pioneer Wireline, conducting logging
11/13/2016	5510	complete logging operations @ 0230 hrs, geologist off location 0300

Falcon Exploration, Inc.

well comparison sheet

DRILLING WELL					COMPARISON WELL			
R&L Farms					James Koehn #5-31 NW			
1900' FSL & 1400' FEL					352' FNL & 1158' FWL			
Sec 36-T28S-R31W					Sec 31-T28S-R30W			
2851 KB					2837 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Chase Group	2701	150	2694	157	2686	151	-1	6
Winfield	2770	81	2768	83	2758	79	2	4
Neva	3198	-347	3187	-336	3180	-343	-4	7
Stotler	3548	-697	3545	-694	3532	-695	-2	1
Tarkio	3616	-765	3616	-765	3600	-763	-2	-2
Topeka	3817	-966	3817	-966	3804	-967	1	1
LeCompton	4020	-1169	4017	-1166	4002	-1165	-4	-1
Heebner	4157	-1306	4153	-1302	4142	-1305	-1	3
Douglas	4196	-1345	4190	-1339	4182	-1345	0	6
Lansing	4268	-1417	4260	-1409	4251	-1414	-3	5
Stark	4651	-1800	4650	-1799	4636	-1799	-1	0
Marmaton	4781	-1930	4776	-1925	4765	-1928	-2	3
Pawnee	4877	-2026	4882	-2031	4854	-2017	-9	-14
Cherokee	4925	-2074	4921	-2070	4902	-2065	-9	-5
Morrow	5149	-2298	5143	-2292	5130	-2293	-5	1
Morrow Sand	5154	-2303	5154	-2303	5160	-2323	20	20
Chester Lime	5205	-2354	5218	-2367	5212	-2375	21	8
St. Gen	5314	-2463	5310	-2459	5270	-2433	-30	-26
St. Lo B por	5433	-2582	5430	-2579	5383	-2546	-36	-33
Total Depth	5510	-2650	5500	-2657	5500	-2671	-10	-14



DRILL STEM TEST REPORT

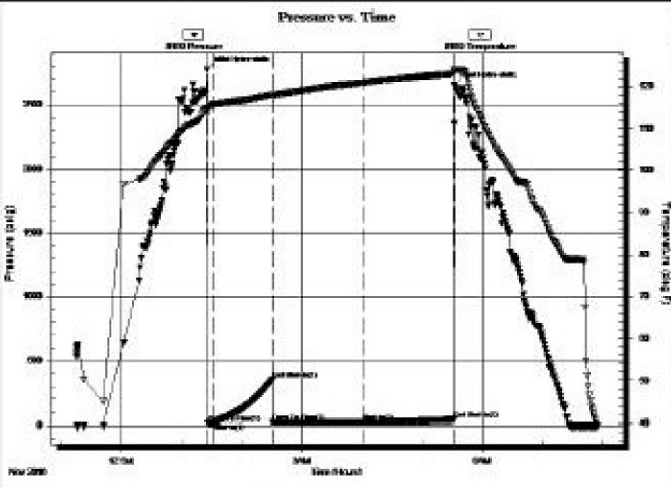
Falcon Exploration 36-28S-31W Haske II
 125 N Market Ste 1252 R&L Farms 1-36
 Wichita, KS 67202 Job Ticket: 57969 DST#: 1
 ATTN: Keith Reavis Test Start: 2016.11.11 @ 23:14:45

GENERAL INFORMATION:

Formation: **ST. Louis**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:25:45 Tester: Leal Cason
 Time Test Ended: 07:55:15 Unit No: 74
 Interval: **5420.00 ft (KB) To 5455.00 ft (KB) (TVD)** Reference Elevations: 2851.00 ft (KB)
 Total Depth: 3455.00 ft (KB) (TVD) 2840.00 ft (CF)
 Hole Diameter: 7.88 inches -hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8159 **Inside**
 Press@RunDepth: 21.59 psig @ 5421.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.11 End Date: 2016.11.12 Last Calib.: 2016.11.12
 Start Time: 23:14:46 End Time: 07:55:15 Time On Btm: 2016.11.12 @ 01:25:00
Time Off Btm: 2016.11.12 @ 05:32:30

TEST COMMENT: IF: Weak 1/2 inch Blow
 IS: No Blow Back
 FF: Weak Surface Blow, Dead @ 38 minutes
 FSI: No Blow Back



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2776.52	114.79	Initial Hydro-static
1	17.74	113.59	Open To Flow (1)
7	21.64	115.72	Shut-In(1)
66	351.11	117.95	End Shut-In(1)
66	20.51	117.82	Open To Flow (2)
155	21.59	120.91	Shut-In(2)
247	41.61	123.06	End Shut-In(2)
248	2652.69	123.92	Final Hydro-static

Length (ft)	Description	Volume (bb)
2.00	Mud	0.01

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

ROCK TYPES

- Clystgy
- sdymst
- shale, gm
- shale, red
- Chtcongl
- Lmst fw<7
- shale, gry
- Shcol
- Dolprim
- Lmst fw>7
- Carbon Sh
- Ss

ACCESSORIES

- MINERAL**
┘ Calcareous
■ Carbonaceous Flakes
- FOSSIL**
∩ Bioclastic or Fragments
∩ Coral
- STRINGER**
■ Limestone
■ red shale
- TEXTURE**
C Chalky

- ▲ Chert, dark
- ⊠ Chert, tripolitic
- ⌞ Dolomitic
- ∩ Glauconite
- ✕ Mineral Crystals
- P Pyrite
- △ Chert White
- Mc Mica
- Crinoids
- F Fossils < 20%
- ⊕ Oolite
- ⊗ Pellets
- ⊖ Oomoldic

OTHER SYMBOLS

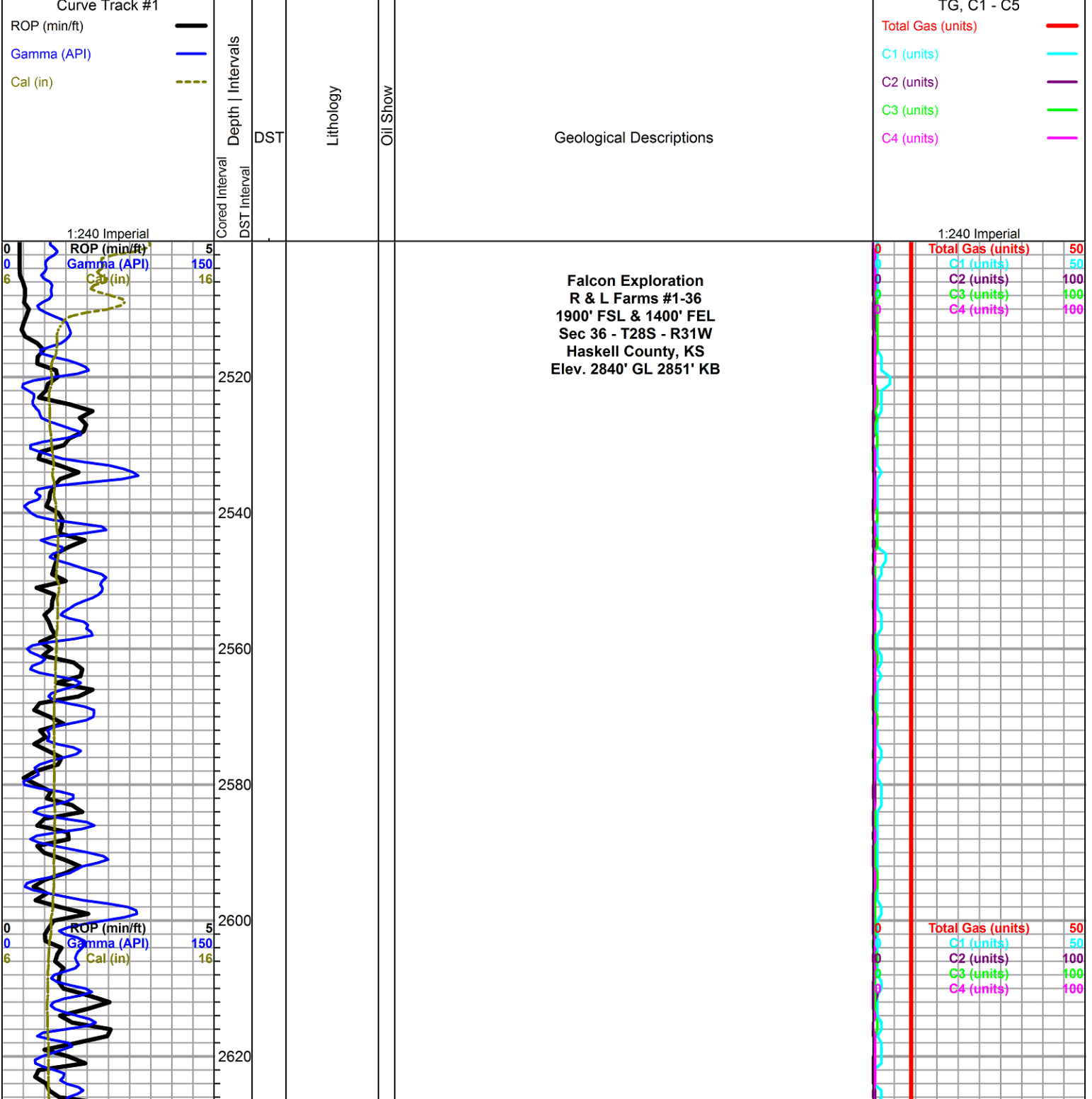
- Oil Show**

 - Good Show
 - ◐ Fair Show
 - ◑ Poor Show
 - ◒ Spotted or Trace
 - Questionable Stn
 - D Dead Oil Stn
 - Fluorescence
 - * Gas

DST

 - DST Int
 - DST alt
 - Core
 - ▬ tail pipe

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



2640
2660
2680
2700
2720
2740
2760
2780
2800
2820
2840

Chase Group 2701 +150 (elog 2694 +157)

Winfield 2770 +81 (elog 2768 +83)

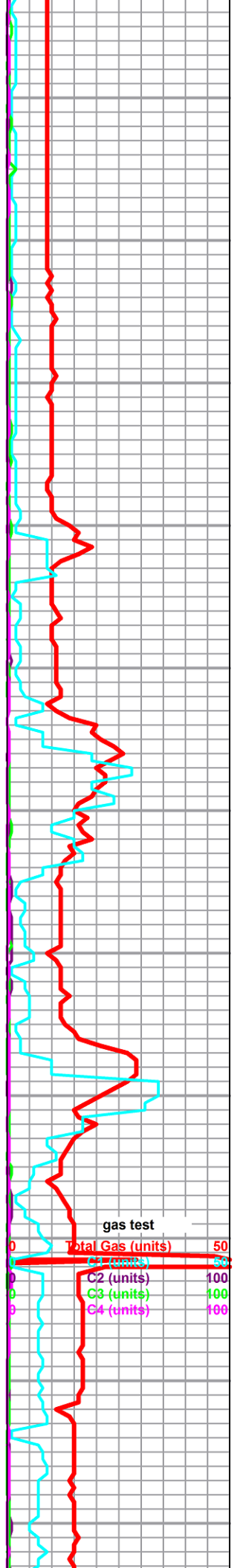
Towanda 2820 +31

ROP (min/ft) 5
Gamma (API) 150
Cal (in) 16

0
0
6

gas test

Total Gas (units) 50
C1 (units) 50
C2 (units) 100
C3 (units) 100
C4 (units) 100

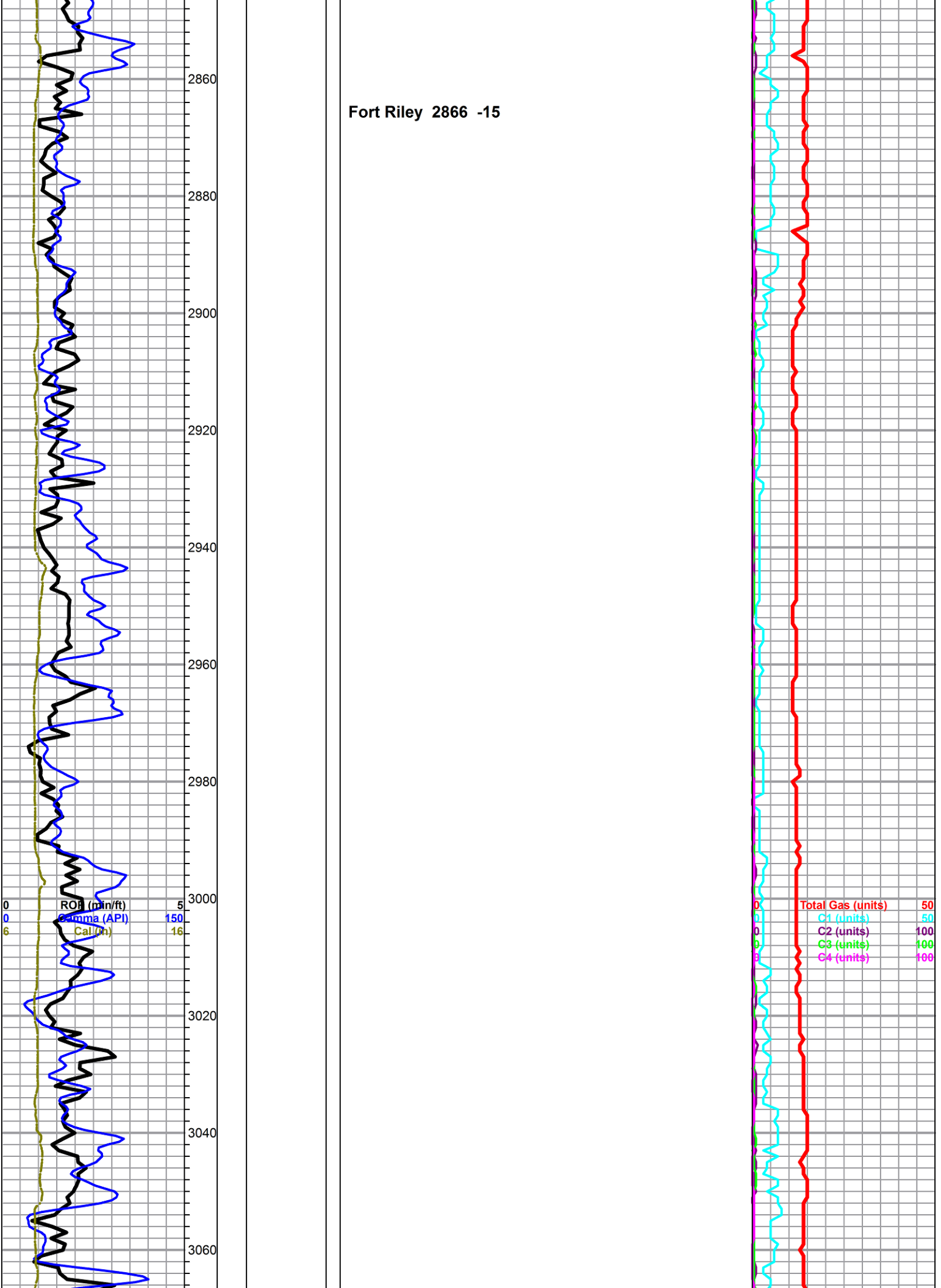


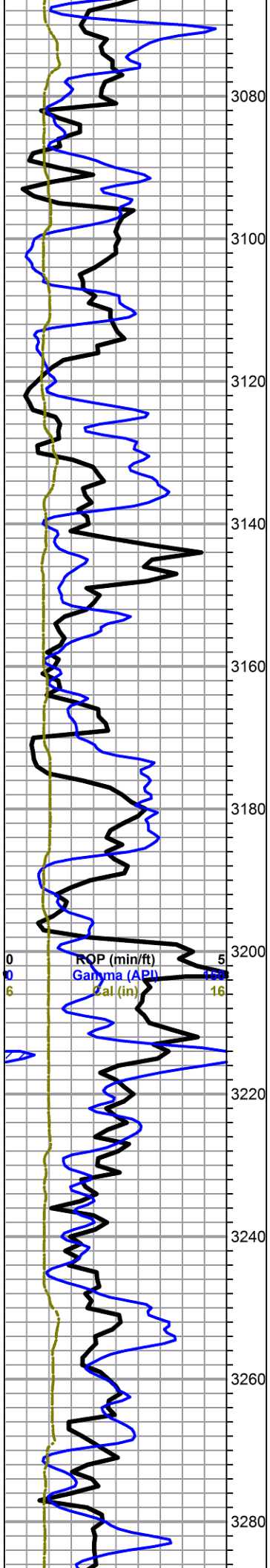
Fort Riley 2866 -15

2860
2880
2900
2920
2940
2960
2980
3000
3020
3040
3060

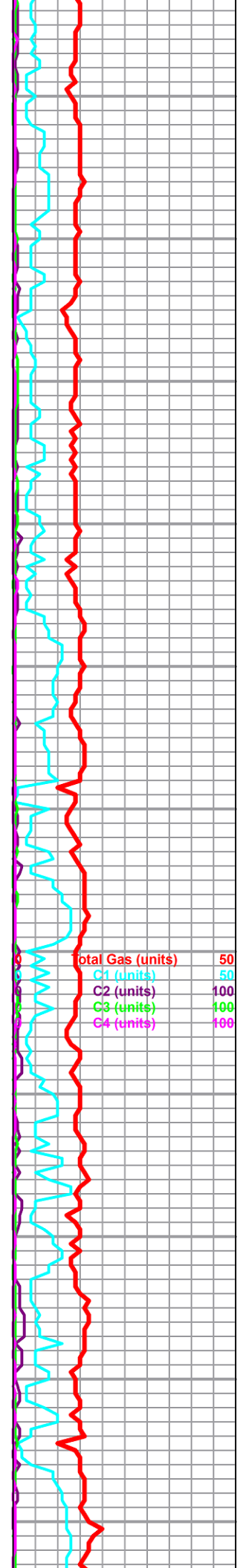
0 ROF (min/ft) 5
0 Gamma (API) 150
6 Cal (m) 16

Total Gas (units) 50
C1 (units) 50
C2 (units) 100
C3 (units) 100
C4 (units) 100

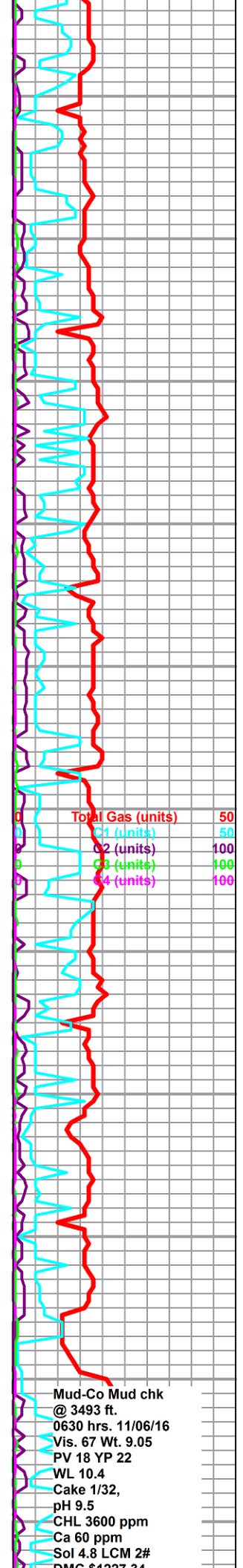
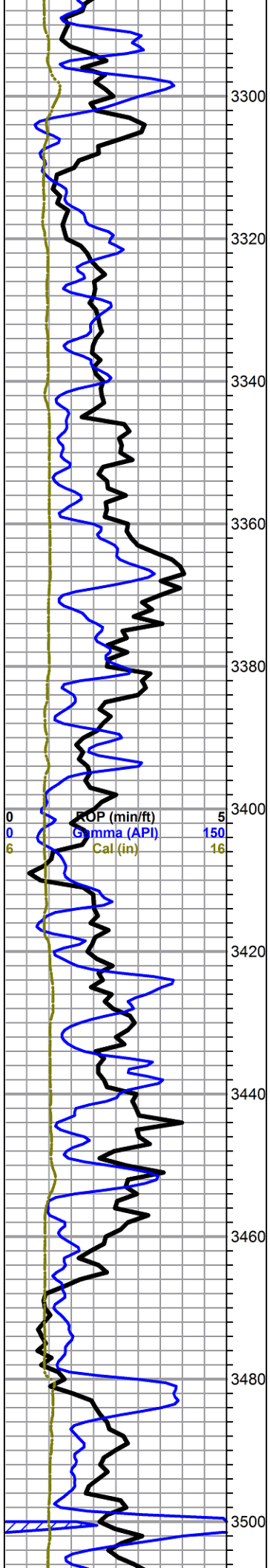




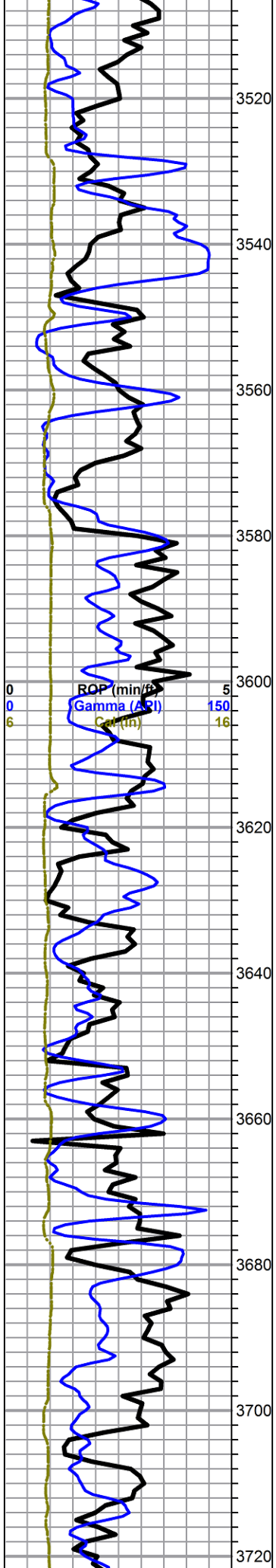
Neva 3198 -347 (elog 3187 -336)



Foraker 3302 -451

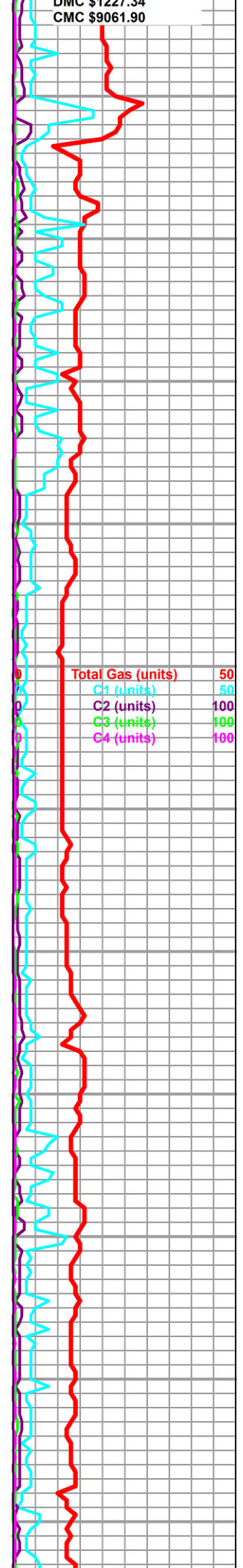


Mud-Co Mud chk
 @ 3493 ft.
 0630 hrs. 11/06/16
 Vis. 67 Wt. 9.05
 PV 18 YP 22
 WL 10.4
 Cake 1/32,
 pH 9.5
 CHL 3600 ppm
 Ca 60 ppm
 Sol 4.8 LCM 2#
 DMC 61227.24



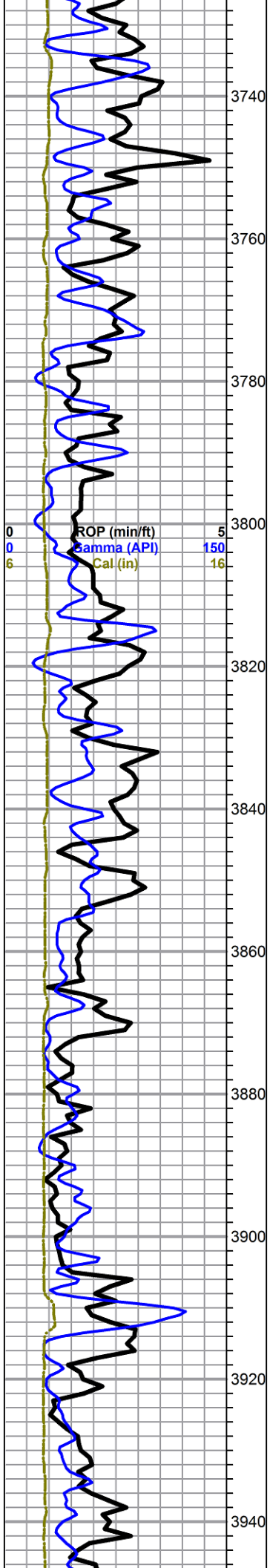
Stotler 3548 -697 (elog 3545 -694)

Tarkio 3616 -765 (elog 3616 -765)

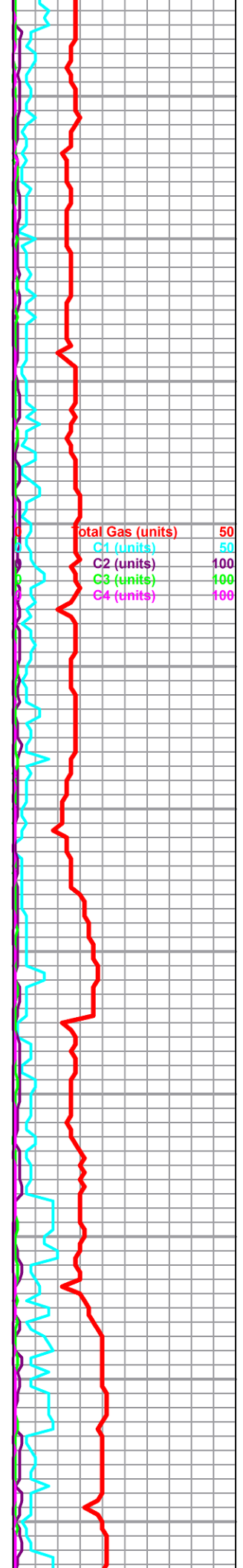


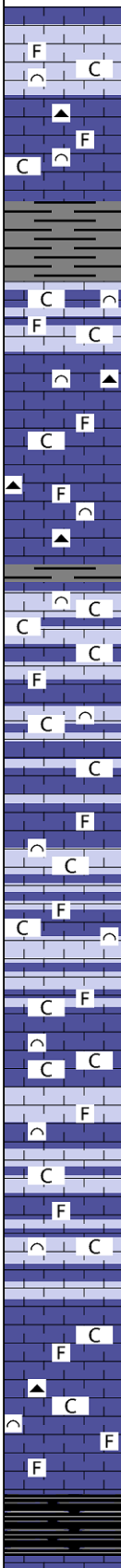
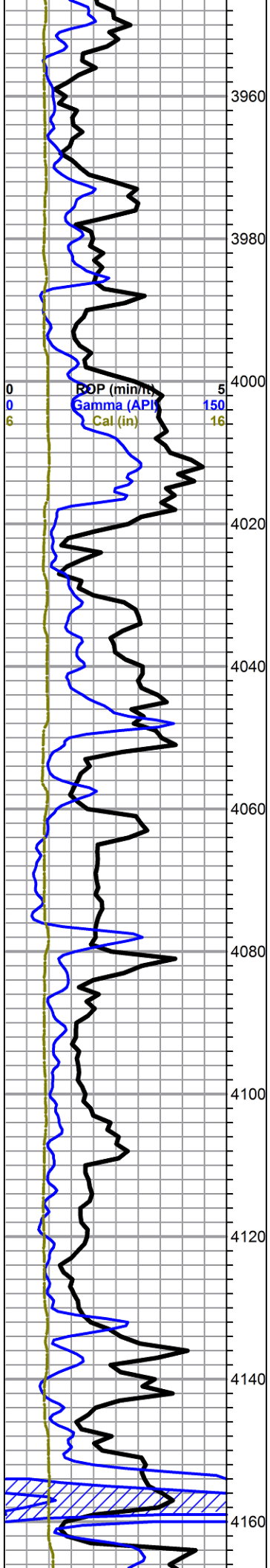
DMC \$1227.34
CMC \$9061.90

Total Gas (units) 50
C1 (units) 50
C2 (units) 100
C3 (units) 100
C4 (units) 100



Topeka 3817 -966 (elog 3817 -966)





Begin 10 ft. wet and dry samples @ 4000'

limestone, light gray to gray, microcrystalline, fossiliferous to bioclastic, grainy in part, chalky to dense, poor visible porosity, no shows, abundant chalk. trace gray fossiliferous chert

Lecompton 4020 -1169 (elog 4017 -1166)

limestone a.a., marked increase in chalk

limestone a.a., mostly darker and denser, increase in gray fossiliferous chert, decrease chalk

limestone, mixed gray, some mottled, fossiliferous to bioclastic, grainy, poor visible porosity, appx. 30% chalk in samples, no shows

limestone a.a., decrease chalky, slightly darker and denser than above

limestone, light gray to gray, microcrystalline, fossiliferous, some bioclastic, some secondary calcite, grainy in part, poor visible porosity, chalk 20-30%, trace chert, no shows

as above

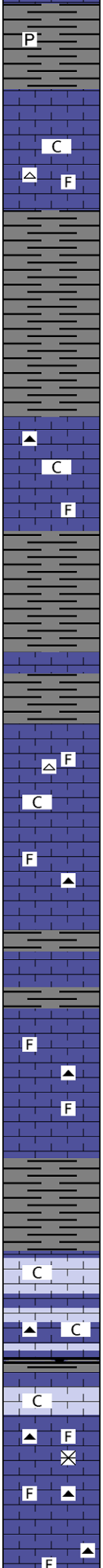
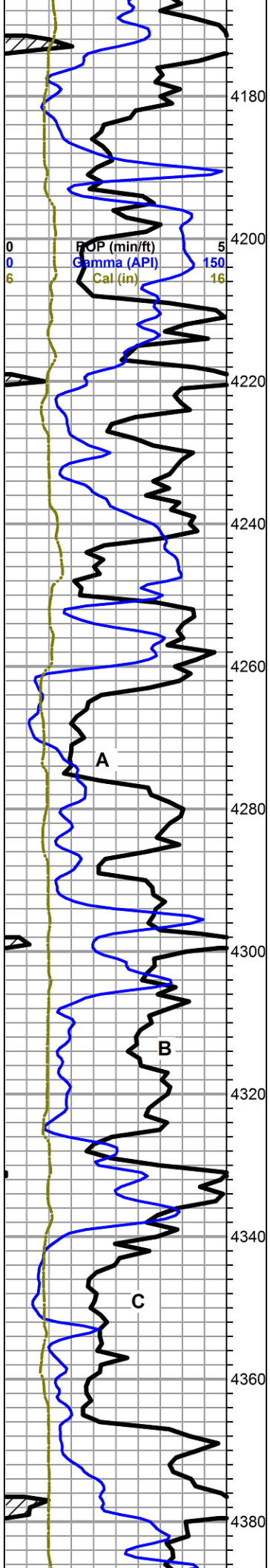
limestone, gray, microcrystalline, fossiliferous, some mottled sub-pelletal, some bioclast, trace dark gray chert, decreasing chalk

Heebner 4157 -1306 (elog 4153 -1302)

shale, black carbonaceous

Total Gas (units)	50
C1 (units)	50
C2 (units)	100
C3 (units)	100
C4 (units)	100

Mud-Co Mud chk @ 4048 ft.
 0810 hrs. 11/07/16
 Vis. 52 Wt. 9.25
 PV 15 YP 17
 WL 8.8
 Cake 1/32,
 pH 9.5
 CHL 3300 ppm
 Ca 20 ppm
 Sol 6.3 LCM 2#
 DMC \$2207.67
 CMC \$11269.57



Limestone, gray to cream, microcrystalline, fossiliferous, sub chalky, brown chert, pyrite

Toronto 4179 -1328

Limestone, cream to light gray, microcrystalline, fossiliferous, chalky, boney white/cream sharp chert,

Douglas 4196 -1345 (elog 4190 -1339)

light to dark gray shale

Limestone, light to dark gray, dense to soft, microcrystalline, fossiliferous, , gray to light brown sharp/fresh chert, sub chalky, no shows

dark gray shale

Lansing 4268 -1417 (elog 4268 -1409)

Limestone, cream, soft, microcrystalline, fossiliferous, poor visible porosity, cream to white boney fresh/sharp chert, chalky, no shows

Limestone, cream to light gray, soft to dense, microcrystalline, fossiliferous, poor visible porosity, white/cream/gray fresh/sharp fossiliferous chert, sub chalky, no shows

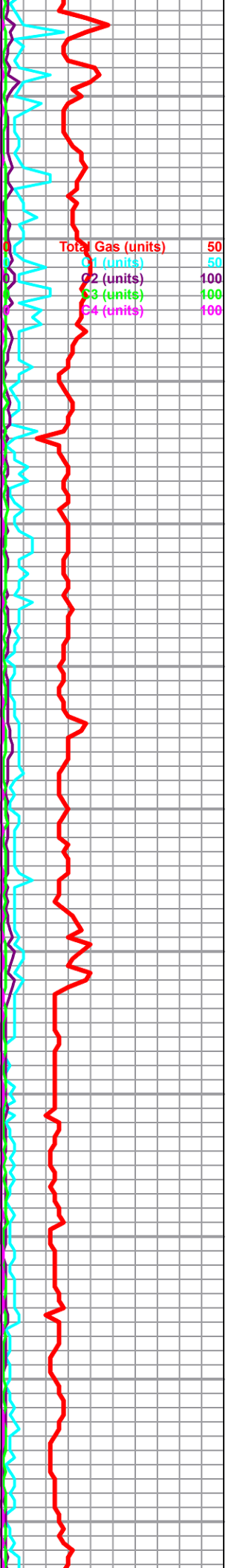
Limestone, light gray, soft to dense, microcrystalline, fossiliferous, poor visible porosity, gray sharp chert, no shows

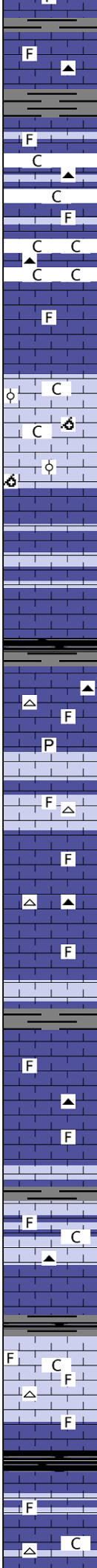
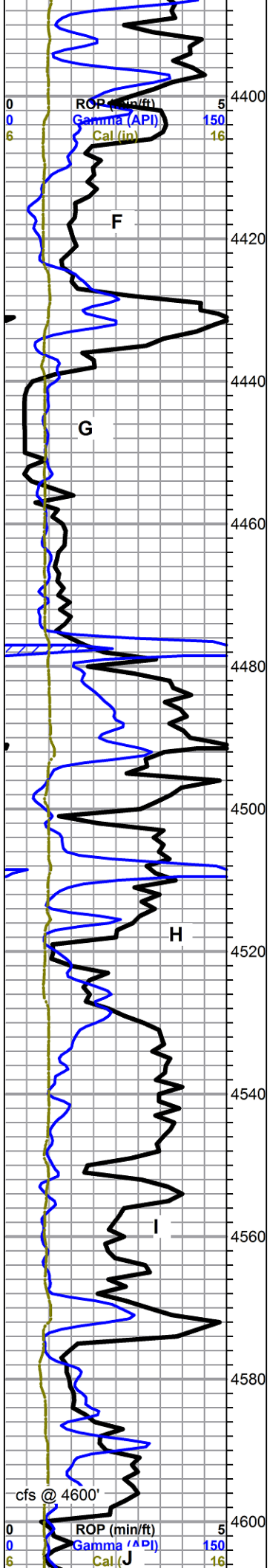
Limestone, light to dark gray, dense, microcrystalline, fossiliferous, some mottled and weathered, poor visible porosity, no shows

Limestone, light gray to cream, soft to dense, microcrystalline, fossiliferous, poor visible porosity, brown opaque chert, flood chalk, no shows

Limestone, cream, soft to dense, microcrystalline, fossiliferous, poor visible porosity, gray opac chert, sub chalky, no shows

Limestone, dark gray, mottled, soft to dense, microcrystalline, fossiliferous, poor visible porosity, dark gray fossiliferous chert, no shows





a.a. with: limestone, cream to light gray, soft to dense, microcrystalline, fossiliferous, poor visible porosity, pyrite, sub chalky, no shows, some white fossiliferous chert

Limestone, cream, soft to dense, microcrystalline, fossiliferous to bioclastic, poor visible porosity, brown/gray opac chert, flood chalk, appx 30-40% no shows

Limestone, cream, dense, microcrystalline, fossiliferous, poor visible porosity, oolitic, abundant chalk, no shows

limestone, gray to tan, oomoldic to oolitic, good oomold porosity, abundant chalk, no shows

Limestone, gray, dense, some as above, less chalk

Black carbonaceous shale

Limestone, cream, soft, microcrystalline, fossiliferous, cream sharp chert, pryite sub chalky, no shows

Limestone, light gray to cream, dense, microcrystalline, fossiliferous, gray opaq fossiliferous chert, sub pryitic, quartz crystal, sub chalky, no shows

Limestone, light gray, soft, microcrystalline, fossiliferous, gray fossiliferous sharp chert, no shows

Limestone, cream, dense, microcrystalline, fossiliferous, gray chert, sub chalky, no shows

Limestone, cream to light gray, soft to dense, microcrystalline, fossiliferous, gray to brown opaq chert, chalky to abundant chalky, no shows

Limestone, cream, soft, microcrystalline, fossiliferous, light gray opaq sharp chert, sub chalky, no shows

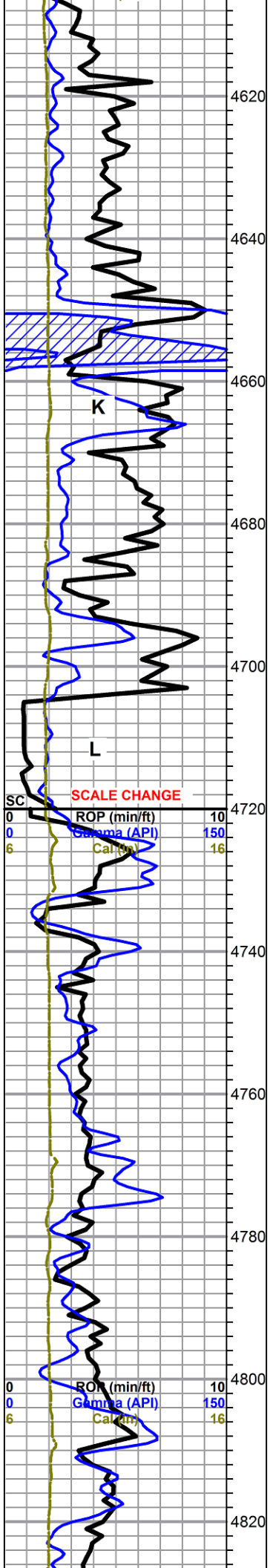
30 min sample: Limestone, light gray to cream, microcrystalline, fossiliferous, light gray to white opaq fossiliferous chert, chalky no shows

Limestone, light gray, soft to dense, microcrystalline, fossiliferous, brown opaq fossiliferou sharp chert, sub chalky, no shows

Total Gas (units) 50
 C1 (units) 50
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100

Mud-Co Mud chk @ 4501 ft.
 0715 hrs. 0/0/13
 Vis. 64 Wt. 9.2
 PV 18 YP 21
 WL 8.0
 Cake 1/32,
 pH 10.5
 CHL 2500 ppm
 Ca 20 ppm
 Sol 6.3 LCM 1.5#
 DMC \$2451.10
 CMC \$13720.67

4600' short trip
 Total Gas (units) 50
 C1 (units) 50
 C2 (units) 100



Limestone, light gray, soft, microcrystalline, fossiliferous, light gray to brown opa^q fossiliferou sharp chert, no shows

Stark Shale 4650' -1800 (elog 4650 -1799)

Black carbonaceous shale

Limestone, cream to light gray, dense, microcrystalline, fossiliferous, brownish gray fossiliferous sharp chert, poor porosity, sub chalky, no show

Limestone, light gray, dense, microcrystalline, fossiliferous, oolitic, gray opa^q chert, sub chalky, no shows

Limestone, cream to light gray, dense, microcrystalline, fossiliferous, brown opa^q sharp chert, crinoids, no shows

Limestone, gray mottled to cream, soft, miceocrystalline, fossiliferous, oomoldic to oolitic, good oomold porosity, brown to gray opa^q fossiliferous sharp chert, pyrite, sub chalky, no shows

Limestone, cream, soft to dense, microcrystalline, fossiliferous, oomoldic to oolitic, good oomold porosity, brown opa^q chert, sub chalky, no shows

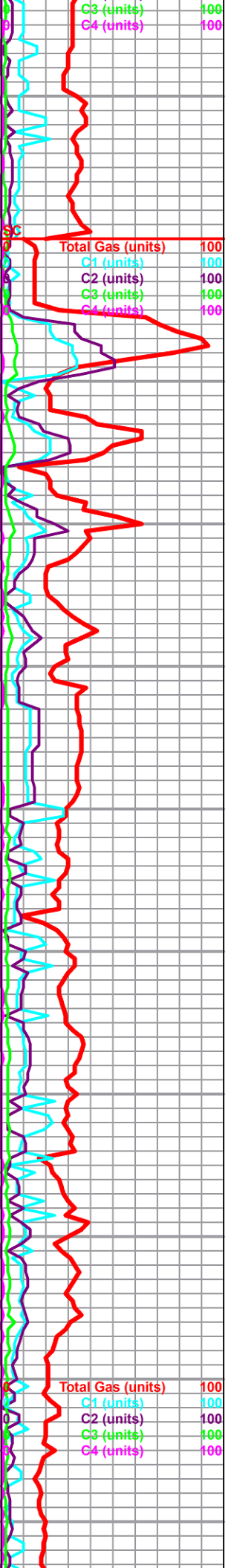
Limestone, dark gray, dense, crypocystalline, fossiliferous, cherty, with gray chert, no shows

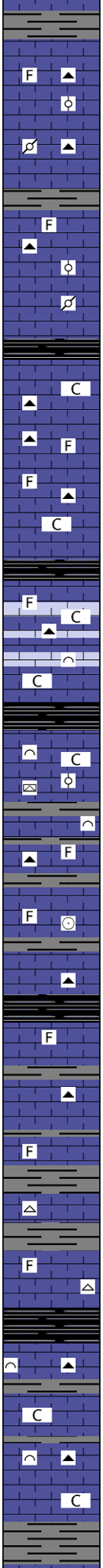
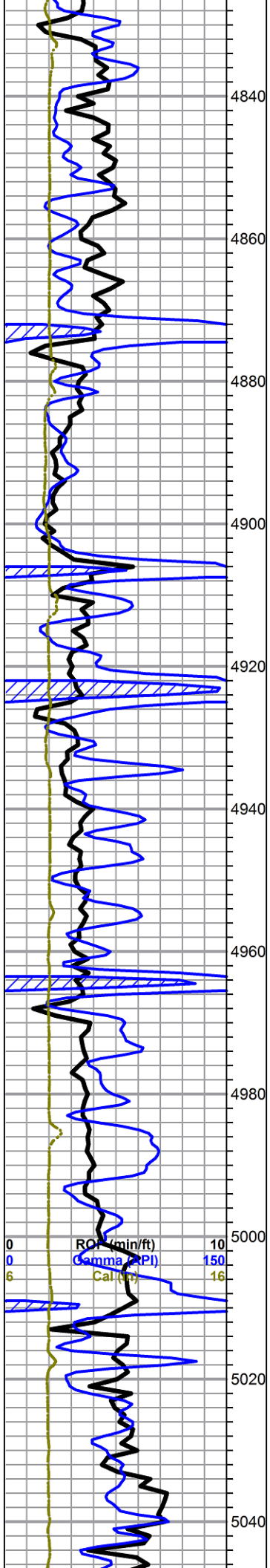
Limestone, cream, soft, microcrystalline, fossiliferous, gray/white opa^q chert, weathered, poor porosity, sub chalky, no shows

Marmaton 4781 -1930 (elog 4776 -1925)

Limestone, cream, soft to dense, microcrystalline, fossiliferous, oolitic, crinoids, weathered, poor porsity, white opa^q fossiliferous chert, no shows

Limestone, cream, dense, microcrystalline, fossiliferous, gray chert, sub chalky, no shows





Limestone, cream, dense, microcrystalline, fossiliferous, recrystallized oolitic and pelletal, brown weathered sharp fossiliferous chert, pyritic, no shows

4840

Limestone, cream, soft to dense, microcrystalline, fossiliferous, recrystallized oolitic and pelletal, brown opa chert, sub chalky, no shows

4860

Black carbonaceous shale

Pawnee 4877' -2026 (elog 4882 -2031)

Limestone, light gray to cream, soft to dense, microcrystalline, fossiliferous, sub weathered, light brown opa chert, chalky, no shows

4880

4900

Limestone, cream to white, soft, microcrystalline, fossiliferous, bioclastic, weathered, light brown opa oolitic chert, abundant chalk, no shows

4920

Cherokee 4925 -2074 (elog 4921 -2070)

black carbonaceous shale

Limestone, cream, soft to dense, microcrystalline, fossiliferous, bioclastic, weahered, oolitic weathered chert, abundant chalk, no shows

4940

Limestone, gray, dense, microcrystalline, fossiliferous, gray chert, crinoid, no shows

4960

Limestone, cream to gray, dense, microcrystalline, fossiliferous, wearthered, brown opa oolitic chert, gray chert, crinoid, quartz, chalky, no shows

4960

black carbonaceous shale

Limestone, light gray, soft to dense, microcrystalline, fossiliferous, brown opa sharp chert, no shows

4980

Limestone, light gray, soft to dense, microcrystalline, fossiliferous, brown sharp chert, sub chalky, no shows

5000

Limestone, light gray, soft to dense, microcrystalline, fossiliferous, white weathered chert, sub chalky, no shows

5000

black carbonaceous shale

Limestone, cream to light gray, soft, microcrystalline, fossiliferous, weathered, bioclastic, oolitic, brown sharp oolitic chert, sub chalky, no shows

5020

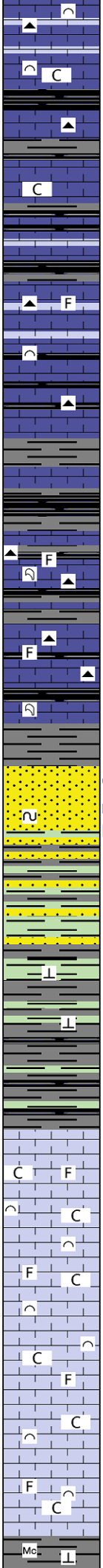
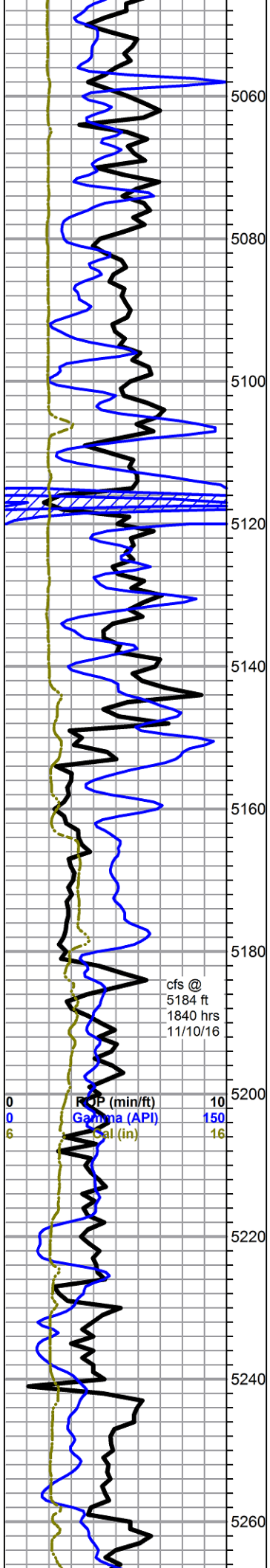
Limestone, cream, soft, microcrystalline, fossiliferous, bioclastic, weathered, gray opa fossiliferous sharp chert, chalky, no shows

5040

Mud-Co Mud chk
@ 4894 ft.
0735 hrs. 11/09/16
Vis. 51 Wt. 9.3
PV 16 YP 18
WL 8.4
Cake 1/32,
pH 10.5
CHL 1700 ppm
Ca 20 ppm
Sol 7.0 LCM 2#
DMC \$1759.87
CMC \$15480.54

shale gas

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



Limestone, cream to light gray, soft, microcrystalline, fossiliferous, weathered, bioclastic, brown opa^q fossiliferous sharp chert, sub chalky, no shows

Limestone, cream, soft, microcrystalline, fossiliferous, weathered, brown chert, sub chalky, no shows

Limestone, cream, soft to dense, microcrystalline, fossiliferous, weathered, bioclastic, dark gray and black cherts, pyritic, coral, no shows, flood black shales

Limestone, light gray to dark gray, soft to dense, microcrystalline, fossiliferous, white and brown opa^q fossiliferous chert, sub chalky, no shows

limestone, dark gray to gray, some black, soft to dense and cherty, microcrystalline, fossiliferous, poor visible porosity, abundant dark gray to black chert, fossiliferous with coral frags, no shows, abundant black shales

Morrow Shale 5149 -2298 (elog 5143 -2922)

Morrow Sand 5154 -2303

sandstone, pale green to gray/black, quartz, very fine grain, sub-round to sub angular, well to fair cementing, calcareous to siliceous, glauconitic with some black mineral grains, poor visible porosity, scattered staining but mostly barren, no show free oil, no odor, spotty light fluorescence, only few pieces with slight cut

flood gray with green and olive shales, heavy gray wash, sand a.a.

green blocky limey shale, calcareous

grading to mostly gray shale with some green and black carbonaceous

Chester 5205 -2354 (elog 5218 -2367)

limestone, blue/gray, some mottling, micro-cryptocrystalline, fossiliferous to bioclastic, large clasts, poor visible porosity, abundant portion of this limestone very weathered to nearly a chalk, no shows

limestone a.a. but grades to tan and cream in color, weathered limestone drops out but abundant chalk in samples

limestone as @ 5205, gray mottled, heavily weathered

a.a.

shale gray, soft, very micaceous, both black and silver micas, calcareous

Mud-Co Mud chk
@ 5144 ft.
0700 hrs. 11/10/16
Vis. 68 Wt. 9.05
PV 21 YP 23
WL 7.2
Cake 1/32,
pH 11.0
CHL 1100 ppm
Ca 20 ppm
Sol 5.7 LCM 3#
DMC \$3046.36
CMC \$18526.90

cfs 5144'
60min bit trip

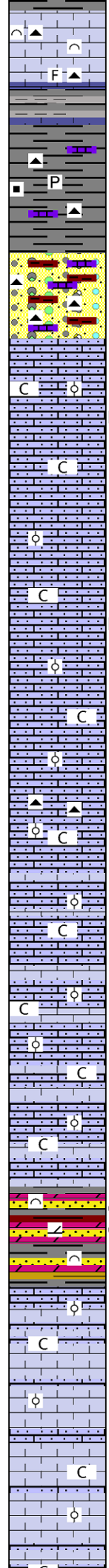
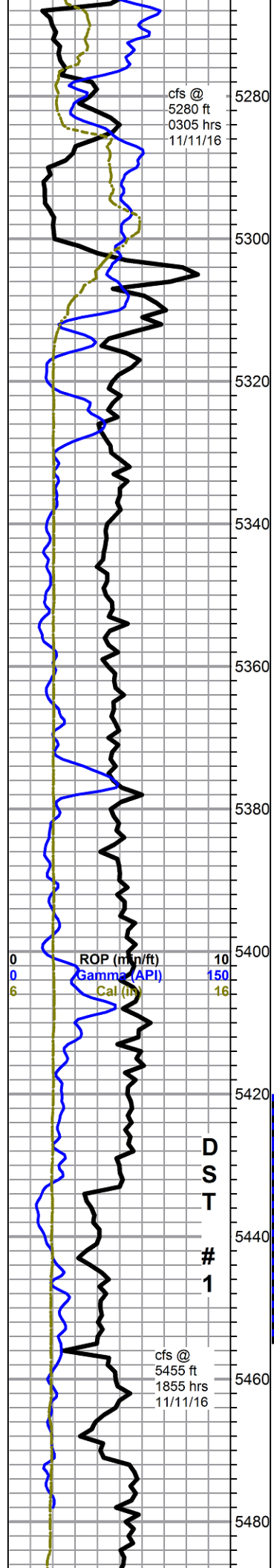
deviation
survey 3/4
deg
pipe strap
0.51' short to
board

cfs @
5184 ft
1840 hrs
11/10/16

0	ROP (min/ft)	10
0	Gamma (API)	150
6	Cal (in)	16

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

tooke daq
froze, data
loss 5233-40



limestone, cream to light gray, mixed crystalline, some secondary calcite crystals, bioclastic/fossiliferous with large clasts, some recrystallized, fair mineral fluorescence, abundant dark mottled, fossiliferous cherts, sharp, fresh, no shows

shaley lime to claystone, light gray, smooth, soft to dense

shale, black and gray laminated/striated, black/organic flakey layers with pyrite, some black pellets, soft, with scattered: limestone, black/gray, fossiliferous, cherty, some black fossiliferous chert

5320 samp - conglomerate, red shale with some olive, orange and yellow chert, mixed limestone, lavender and green siltstones, heavy red wash in samples

St. Gen 5314 -2463 (elog 5310 -2459)

limestone, white to light gray, micro-oolitic and sandy, grainy, chalky, poor visible porosity, scattered spotty black dead stain, no show free oil, no odor, varying mineral fluorescence, very weak faint cut, abundant chalk

as above

St. Louis 5378 -2527

5400 sample, a.a., increase chalk, influx tan translucent and orange cherts

sandy limestone a.a. with white to light gray oolitic, very fine oolites but larger than sandy facies, chalky, poor porosity, no shows, still carrying abundant gray shales

a.a. with influx of some limestone, gray, flattened oolitic, dense to chalky, increase of shales, no shows

limestone a.a.

St. Louis Porosity 5433 -2582 (elog 5430 -2579)

5450 sample, flood gray shale, gray bioclastic dolomite, recrystallized clasts, good interclast porosity (see show below) with sand grains also: sandstone, gray, with dolomite clasts, frosted quartz, fine grain, well rounded, fair to well sorted, well cemented, dolomitic cement with some crystalline in-fill, fair intergrain porosity, both facies - no stain but voids full of heavy black oil, bleeding, no odor or fluorescence, good cut, (note: dolomitic cement reacts readily with concentrated HCl and gives up oil)

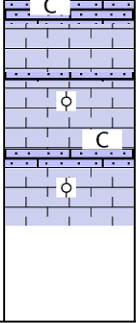
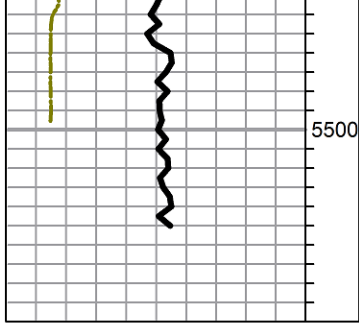
5455 sample, a.a. with flood of olive shale and pale maroon, mostly shale in sample

30 min sample - gray and olive shales as above, white fine oolitic limestone, chalky, some fairly mature, some olive chert, sandstone drops out

5460-90 poor samples, mostly shales, gray and olive, mixed white oolitic limestone, fine to very fine ooids, some sandy, some glauconitic, mostly chalky, still inordinate amount of shales, gray and olive

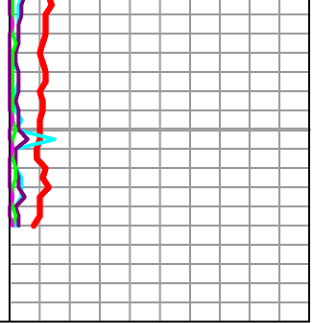
Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100

DST #1
5420' - 5455'
5-60-90-90
rec. 2 ft mud
ifp 17-21#
isip 351#
ffp 20-21#
fsip 41#
hsh 2776-2652#
BHT 123 deg F



5490-TD shale and limestone a.a.

Rotary TD 5510 ft. @ 1740 hrs 11/12/16
Pioneer Wireline TD 5508 ft
complete logging operations 0230 hrs 11/13/16





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Falcon Exploration
125 N Market Ste 1252
Wichita, KS 67202
ATTN: Keith Reavis

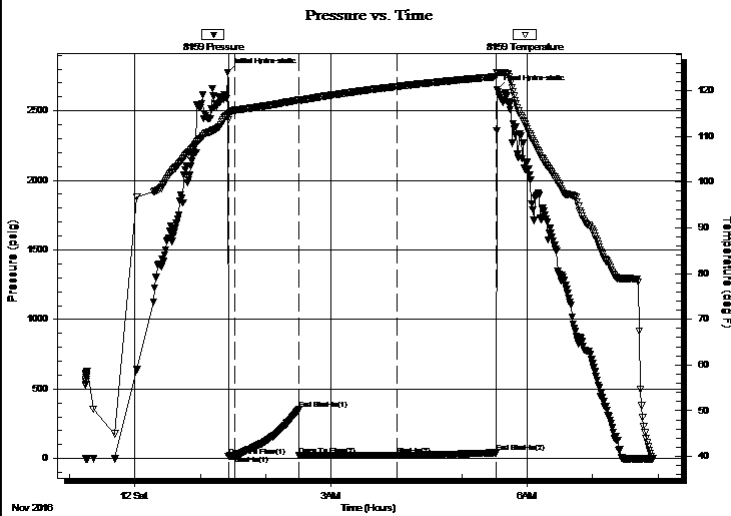
36-28S-31W Haskell
R&L Farms 1-36
Job Ticket: 57969 **DST#: 1**
Test Start: 2016.11.11 @ 23:14:45

GENERAL INFORMATION:

Formation: **ST. LOUIS**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:25:45
Time Test Ended: 07:55:15
Interval: **5420.00 ft (KB) To 5455.00 ft (KB) (TVD)**
Total Depth: 3455.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2851.00 ft (KB)
2840.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8159 Inside
Press@RunDepth: 21.59 psig @ 5421.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.11.11 End Date: 2016.11.12 Last Calib.: 2016.11.12
Start Time: 23:14:46 End Time: 07:55:15 Time On Btm: 2016.11.12 @ 01:25:00
Time Off Btm: 2016.11.12 @ 05:32:30

TEST COMMENT: IF: Weak 1/2 inch Blow
IS: No Blow Back
FF: Weak Surface Blow, Dead @ 38 minutes
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2776.52	114.79	Initial Hydro-static
1	17.74	113.59	Open To Flow (1)
7	21.64	115.72	Shut-In(1)
66	351.11	117.95	End Shut-In(1)
66	20.51	117.82	Open To Flow (2)
155	21.59	120.91	Shut-In(2)
247	41.61	123.06	End Shut-In(2)
248	2652.69	123.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Falcon Exploration

36-28S-31W Haskell

125 N Market Ste 1252
Wichita, KS 67202

R&L Farms 1-36

Job Ticket: 57969

DST#: 1

ATTN: Keith Reavis

Test Start: 2016.11.11 @ 23:14:45

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1750.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

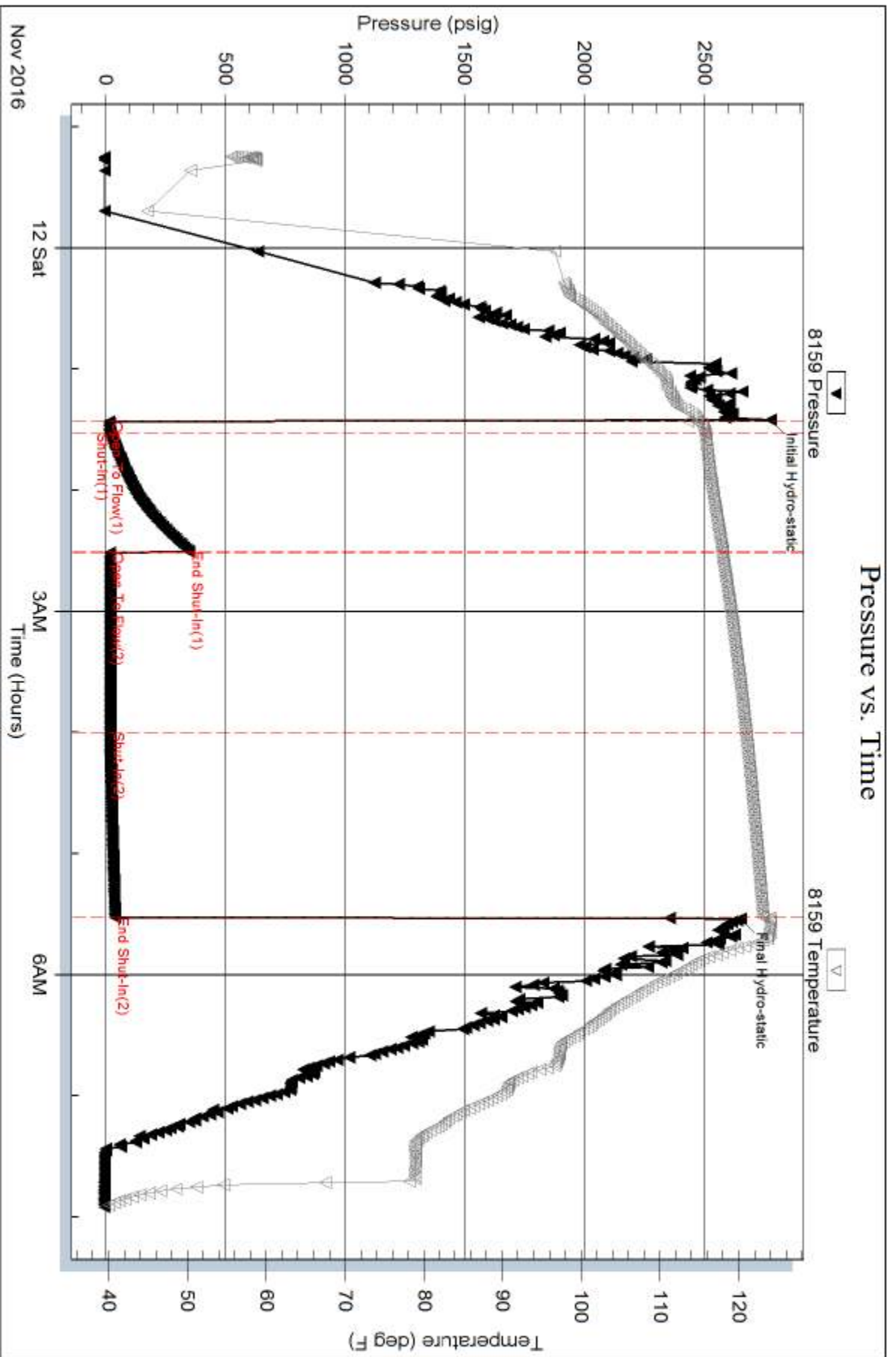
Num Gas Bombs: 0

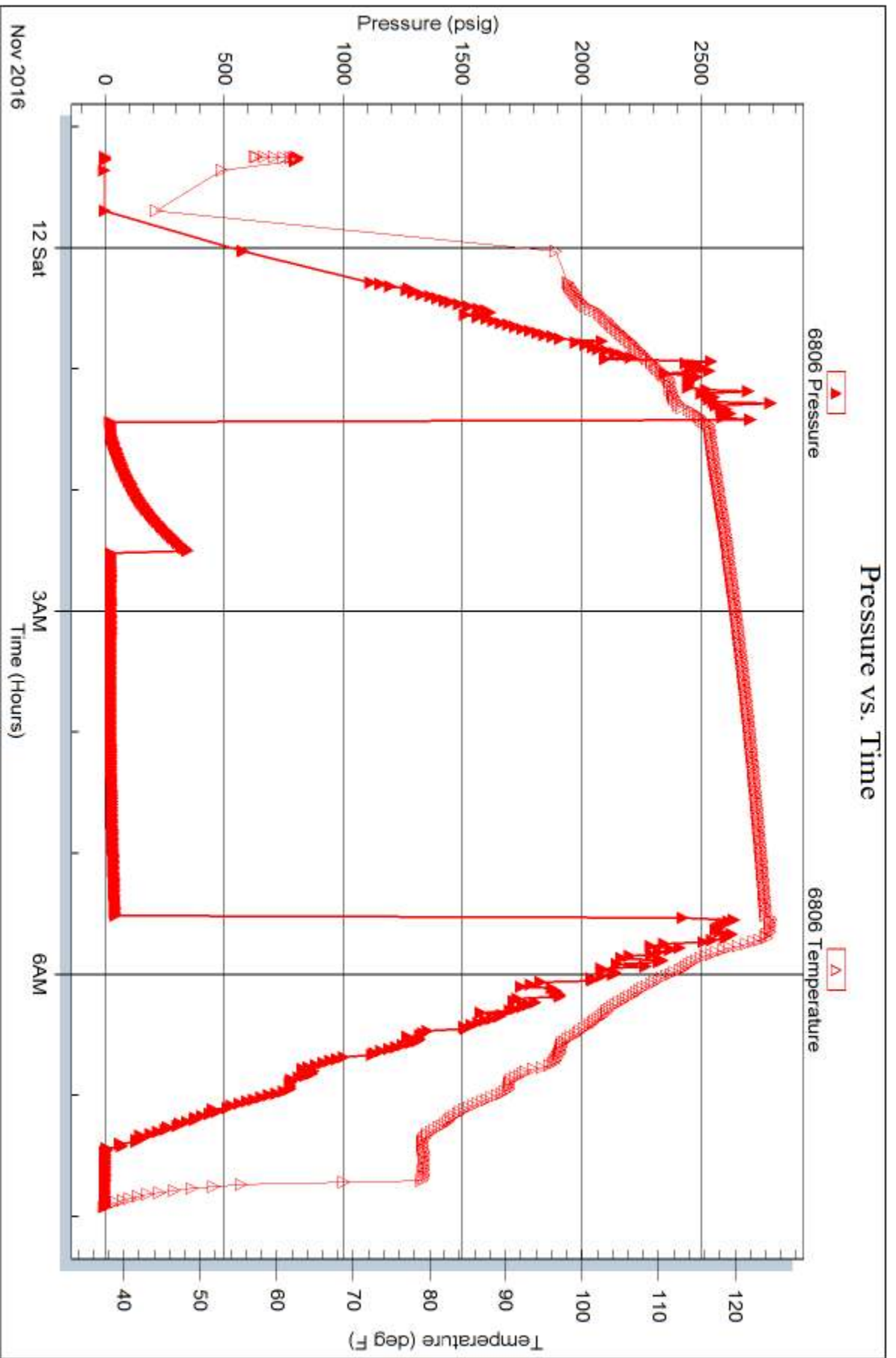
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







BASIC
ENERGY SERVICES

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



Job Log

Customer:	Falcon Exploration	Cement Pump No.:	38119-19570 6 HRS	Operator TRK No.:	78939
Address:		Ticket #:	1718- 14173 L	Bulk TRK No.:	27808-19883
City, State, Zip:		Job Type:	Z-42 Cement Plug to Abandon		
Service District:		Well Type:	OIL		
Well Name and No.:	RL FARMS 1-36	Well Location:	36,28,31	County:	HASKELL
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
60/40 POZ	170	4% GEL	27808-19883	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	255	Man Hours:	6
Tail:					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
8:00							ON LOC, SAFTEY MTG, R.U.
11:16	3.5	10			180		H2O SPACER
11:20 AM	4	13.35			210		MIX 50 SX @ 1880'
11:26 AM	4	2					H2O SPACER
11:28 AM	7	23			210		MUD
12:16	5	10			150		H2O SPACER
12:20	5	13.35			150		MIX 50 SX @ 810'
12:23 PM	5	7					H2O DISPLACEMENT
13:00	3.5	5			80		MIX 20 SX @ 60'
13:22							PLUG R & M
							JOB COMPLETE

Size Hole	Depth			TYPE	
Size & Wt. Csg.	Depth		New / Used	Packer	Depth
lbg.	Depth			Retainer	Depth
Top Plugs	Type			Perfs	CIBP

Customer Signature:		Basic Representative:	
		Basic Signature:	
		Date of Service:	11/13/2016



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1001356	1718	11/10/2016
INVOICE NUMBER			
92273215			

Pratt (620) 672-1201
 B FALCON EXPLORATION
 I 125 N MARKET, SUITE 1251
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME RL Farms 1-36
 O LOCATION
 B COUNTY Gray
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40978744	19919		Net - 30 days	12/10/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 11/03/2016 to 11/03/2016				
0040978744				
171814168L Cement-New Well Casing/Pi 11/03/2016 Cement Surface				
A-Con' Blend	455.00	EA	7.44	3,385.20
Premium Plus Cement	150.00	EA	6.52	978.00
Calcium Chloride	1,600.00	EA	0.42	672.00
Celloflake	150.00	EA	1.48	222.00
C-15	171.00	EA	10.00	1,710.00
Flapper Type Insrt Float Vlave 8 5/8(red	1.00	EA	495.00	495.00
"Guide Shoe - Regular, 8 5/8" (Blue)"	1.00	EA	380.00	380.00
8 5/8 x 12 1/4 No Fins(Green)	4.00	EA	90.00	360.00
"Top Rubber Cmt Plug, 8 5/8" "	1.00	EA	225.00	225.00
"Unit Mileage Chg (PU, cars one way)"	40.00	MI	1.80	72.00
Heavy Equipment Mileage	120.00	MI	3.00	360.00
"Proppant & Bulk Del. Chgs., per ton mil	1,138.00	EA	1.00	1,138.00
Blending & Mixing Service Charge	605.00	BAG	0.52	314.60
Plug Container Util. Chg.	1.00	EA	100.00	100.00
Cement Data Acquisition Monitor	1.00	EA	220.00	220.00
Depth Charge; 1001'-2000'	1.00	EA	600.00	600.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	70.00	70.00

C

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,301.80
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	532.99
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	11,834.79
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

