

Confidentiality Requested:

Yes  No

# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1

November 2016

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

Spot Description: \_\_\_\_\_

\_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

### Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

### AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

### KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto: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	CARRIE NICHOLS 1-5(SW)
Doc ID	1275567

All Electric Logs Run

MEL
DIL
BHCS
CNL/CDL



# DIAMOND TESTING

## General Information Report

### General Information

**Company Name** FALCON EXPLORATION, INC.  
**Contact** JASON MITCHELL  
**Well Name** CARRIE NICHOLS #1-5 (SW)  
**Unique Well ID** DST #1, STOTLER, 3496-3565  
**Surface Location** SEC. 5-28S-29W, GRAY CO. KS.  
**Field** WILDCAT  
**Well Type** Vertical  
**Test Type** CONVENTIONAL  
**Formation** DST #1, STOTLER, 3496-3565  
**Well Fluid Type** 02 Gas

**Representative** TIM VENTERS  
**Well Operator** FALCON EXPLORATION, INC.  
**Report Date** 2015/09/26  
**Prepared By** TIM VENTERS  
**Qualified By** KEITH REAVIS

**Start Test Date** 2015/09/26  
**Final Test Date** 2015/09/26

**Start Test Time** 04:21:00  
**Final Test Time** 13:36:00

### Test Recovery:

RECOVERED: 50' WCM, 16% WATER, 84% MUD  
130' HWCM, 45% WATER, 55% MUD  
60' MCW, 79% WATER, 21% MUD  
240' TOTAL FLUID

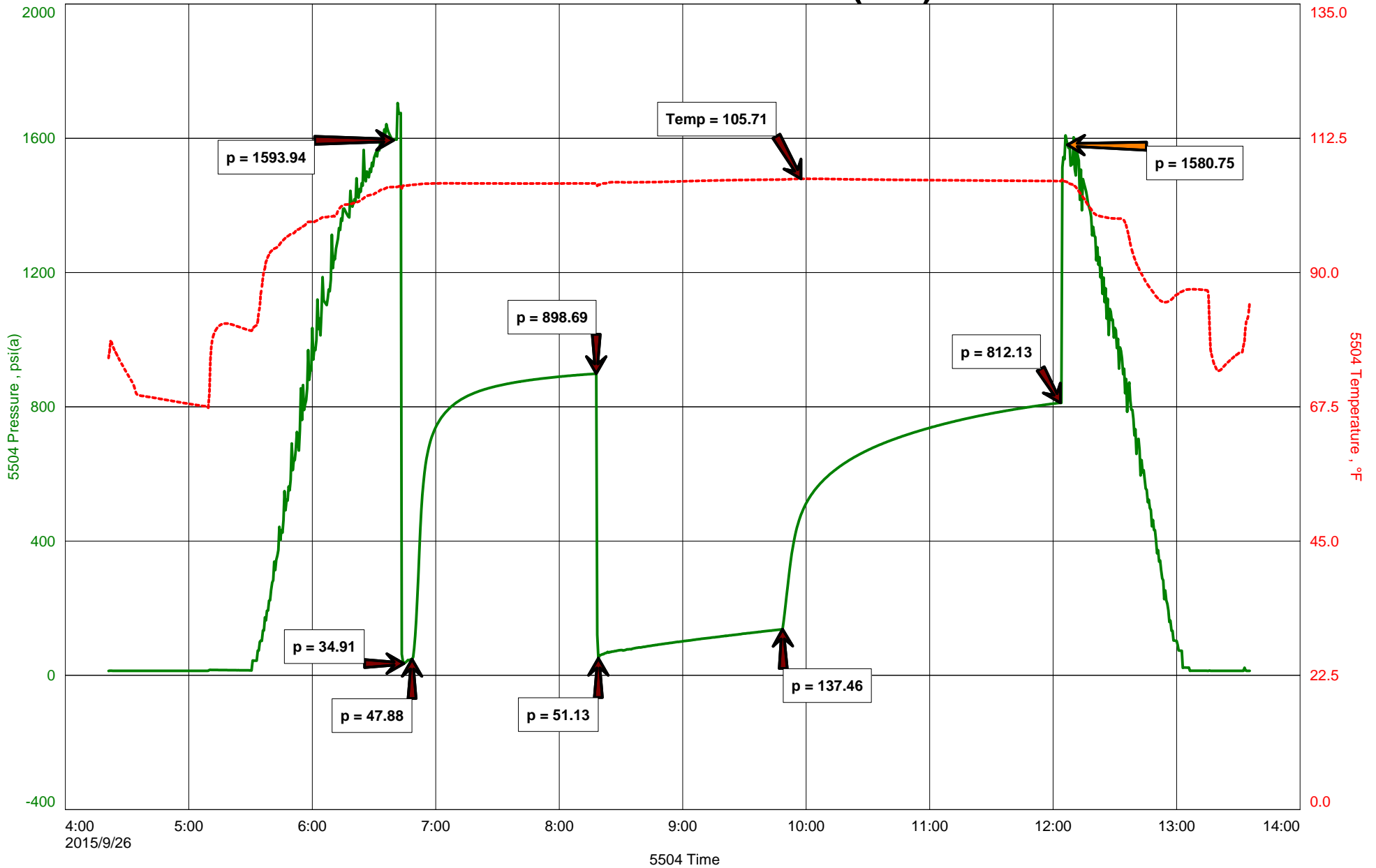
TOOL SAMPLE: TRACE OIL, 75% WATER, 25% MUD

CHLORIDES: 63,000 ppm  
PH: 6.5  
RW: .13 @ 78 deg.

FALCON EXPLORATION, INC.  
DST #1, STOTLER, 3496-3565  
Start Test Date: 2015/09/26  
Final Test Date: 2015/09/26

CARRIE NICHOLS #1-5 (SW)  
Formation: DST #1, STOTLER, 3496-3565  
Pool: WILDCAT  
Job Number: T498

# CARRIE NICHOLS #1-5 (SW)





**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 04:21  
 TIME OFF: 13:36

**DRILL-STEM TEST TICKET**  
 FILE: CARRIENICHOLS1-5SWDST1

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
 Elevation 2795 KB Formation STOTLER Effective Pay \_\_\_\_\_ Ft. Ticket No. T498  
 Date 9-26-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3496 ft. to 3565 ft. Total Depth 3565 ft.  
 Packer Depth 3491 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3496 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3477 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) 3562 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
 Weight 8.55 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 400 P.P.M. Drill Pipe Length 3403 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 37 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>32' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GOOD 1 1/2 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (NO BB)  
 2nd Open: GOOD 1 1/2 INCH BLOW, BUILDING, REACHING BOB 13 1/2 MIN. (NO BB)

Recovered 50 ft. of WCM, 16% WATER, 84% MUD  
 Recovered 130 ft. of HWCM, 45% WATER, 55% MUD  
 Recovered 60 ft. of MCW, 79% WATER, 21% MUD  
 Recovered 240 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 63,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 6.5	Other Charges
Remarks: _____	RW: .13 @ 78 deg.	Insurance
TOOL SAMPLE: TRACE OIL, 75% WATER, 25% MUD		Total

Time Set Packer(s) 6:43 AM <sup>A.M.</sup> P.M. Time Started Off Bottom 12:03 PM <sup>A.M.</sup> P.M. Maximum Temperature 106 deg.

Initial Hydrostatic Pressure..... (A) 1594 P.S.I.  
 Initial Flow Period..... Minutes 5 (B) 35 P.S.I. to (C) 48 P.S.I.  
 Initial Closed In Period..... Minutes 90 (D) 899 P.S.I.  
 Final Flow Period..... Minutes 90 (E) 51 P.S.I. to (F) 137 P.S.I.  
 Final Closed In Period..... Minutes 135 (G) 812 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1581 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

# DIAMOND TESTING

## General Information Report

### General Information

<b>Company Name</b>	FALCON EXPLORATION, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	JASON MITCHELL	<b>Well Operator</b>	FALCON EXPLORATION, INC.
<b>Well Name</b>	CARRIE NICHOLS #1-5 (SW)	<b>Report Date</b>	2015/09/30
<b>Unique Well ID</b>	DST #2, MARMATON, 4740-4760	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 5-28S-29W, GRAY CO. KS.	<b>Qualified By</b>	KEITH REAVIS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #2, MARMATON, 4740-4760		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2015/09/29	<b>Start Test Time</b>	16:43:00
<b>Final Test Date</b>	2015/09/30	<b>Final Test Time</b>	03:47:00

### Test Recovery:

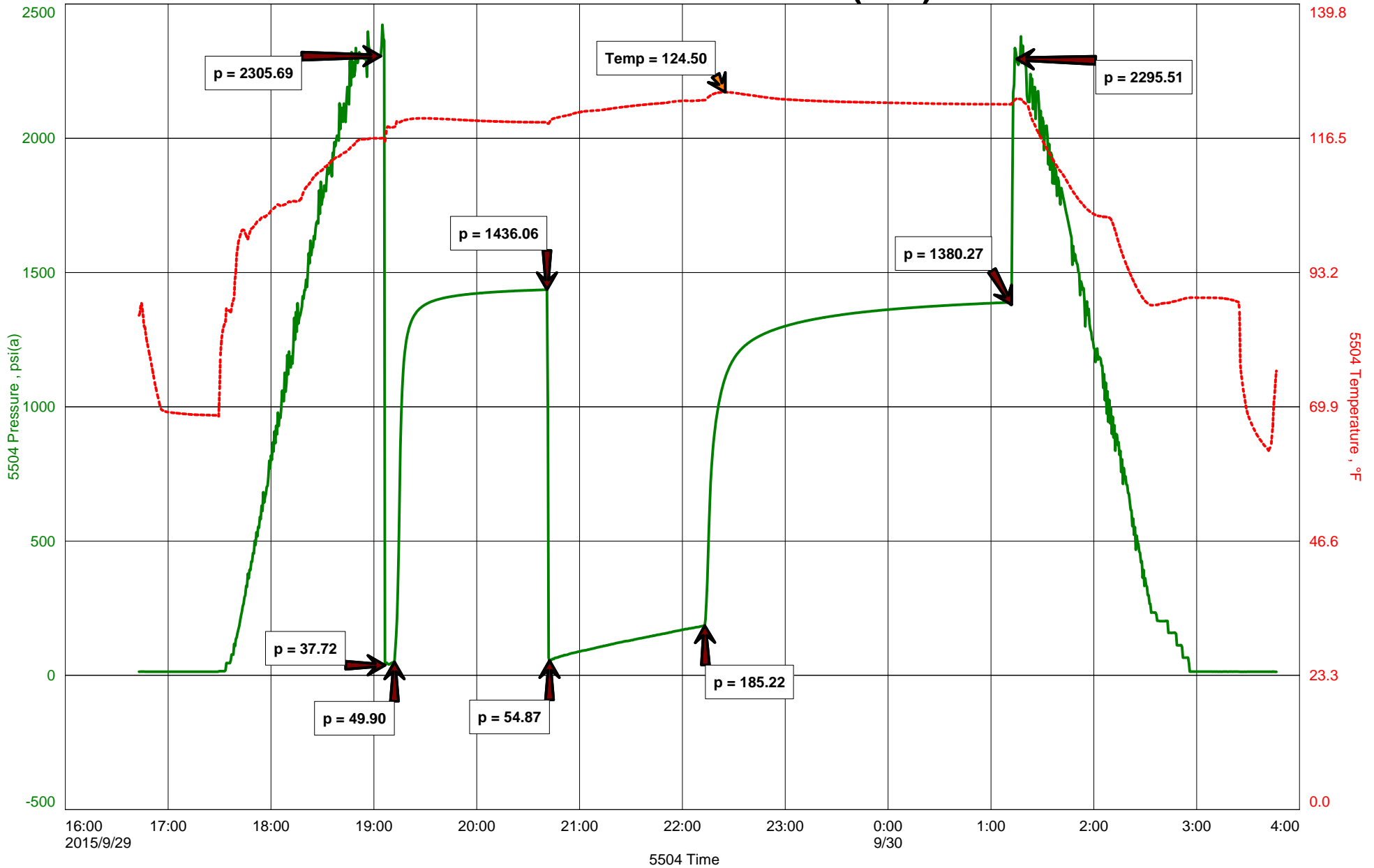
RECOVERED: 4300' GAS IN PIPE  
30' GO, 4% GAS, 96% OIL, GRAVITY: 32  
190' G,SWCO, 27% GAS, 72% OIL, 1% WATER  
130' G,W&MCO, 20% GAS, 40% OIL, 21% WATER, 19% MUD  
60' SO&MCW, 4% OIL, 93% WATER, 19% MUD  
410' TOTAL FLUID

TOOL SAMPLE: 89% OIL, 10% WATER, 1% MUD

CHLORIDES: 95,000 ppm  
PH: 6.0  
RW: .15 @ 66 deg.



# CARRIE NICHOLS #1-5 (SW)





**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 16:43 9-29-15  
 TIME OFF: 03:47 9-30-15

**DRILL-STEM TEST TICKET**  
 FILE: CARRIENICHOLS1-5SWDST2

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
 Elevation 2795 KB Formation MARMATON Effective Pay \_\_\_\_\_ Ft. Ticket No. T499  
 Date 9-29-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4740 ft. to 4760 ft. Total Depth 4760 ft.

Packer Depth 4735 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Packer Depth 4740 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4721 ft. Recorder Number 5504 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4757 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 60 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 2,660 P.P.M. Drill Pipe Length 4647 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (NO BB)

2nd Open: STRONG 7 INCH BLOW, BUILDING, REACHING BOB 30 SEC. (9" BB)

Recovered 4300 ft. of GAS IN PIPE

Recovered 30 ft. of GO, 4% GAS, 96% OIL, GRAVITY: 32

Recovered 190 ft. of G,SWCO, 27% GAS, 72% OIL, 1% WATER

Recovered 130 ft. of G,W&MCO, 20% GAS, 40% OIL, 21% WATER, 19% MUD

Recovered 60 ft. of SO&MCW, 4% OIL, 93% WATER, 19% MUD

Recovered 410 ft. of TOTAL FLUID CHLORIDES: 95,000 ppm

Remarks: PH: 6.0

RW: .15 @ 66 deg.

TOOL SAMPLE: 89% OIL, 10% WATER, 1% MUD

Time Set Packer(s) 7:06 PM A.M. P.M. Time Started Off Bottom 1:11 AM A.M. P.M. Maximum Temperature 125 deg.

Initial Hydrostatic Pressure..... (A) 2306 P.S.I.

Initial Flow Period..... Minutes 5 (B) 38 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period..... Minutes 90 (D) 1436 P.S.I.

Final Flow Period..... Minutes 90 (E) 55 P.S.I. to (F) 185 P.S.I.

Final Closed In Period..... Minutes 180 (G) 1380 P.S.I.

Final Hydrostatic Pressure..... (H) 2296 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

# DIAMOND TESTING

## General Information Report

### General Information

**Company Name** FALCON EXPLORATION, INC.  
**Contact** JASON MITCHELL  
**Well Name** CARRIE NICHOLS #1-5 (SW)  
**Unique Well ID** DST #3, CHEROKEE, 4957-5031  
**Surface Location** SEC 5-28S-29W, GRAY CO. KS.  
**Field** WILDCAT  
**Well Type** Vertical  
**Test Type** CONVENTIONAL  
**Formation** DST #3, CHEROKEE, 4957-5031  
**Well Fluid Type** 01 Oil

**Representative** TIM VENTERS  
**Well Operator** FALCON EXPLORATION, INC.  
**Report Date** 2015/10/02  
**Prepared By** TIM VENTERS  
**Qualified By** KEITH REAVIS

**Start Test Date** 2015/10/01  
**Final Test Date** 2015/10/01

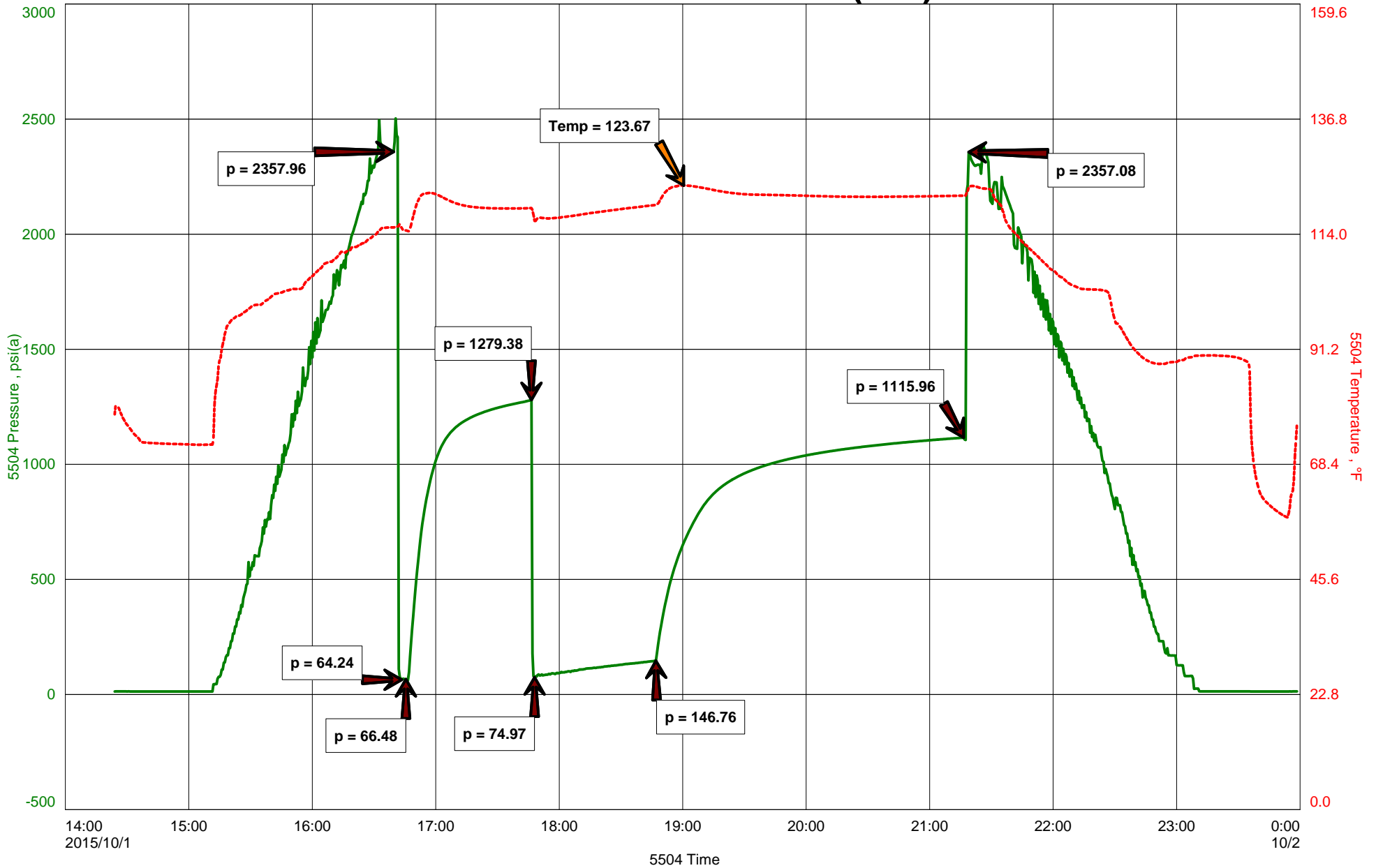
**Start Test Time** 14:24:00  
**Final Test Time** 23:59:00

### Test Recovery:

**RECOVERED: 4680' GAS IN PIPE**  
75' GO, 8% GAS, 92% OIL, GRAVITY: 34  
250' G,MCO, 13% GAS, 74% OIL, 13% MUD  
345' TOTAL FLUID

**TOOL SAMPLE: 4% GAS, 67% OIL, 29% MUD**

# CARRIE NICHOLS #1-5 (SW)





**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 14:24  
 TIME OFF: 23:59

**DRILL-STEM TEST TICKET**  
 FILE: CARRIENICHOLS1-5SWDST3

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
 Elevation 2795 KB Formation CHEROKEE Effective Pay \_\_\_\_\_ Ft. Ticket No. T500  
 Date 10-1-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4957 ft. to 5031 ft. Total Depth 5031 ft.  
 Packer Depth 4952 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 4957 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 4938 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) 5028 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 4,300 P.P.M. Drill Pipe Length 4864 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>32' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG 5 INCH BLOW, BUILDING, REACHING BOB 25 SEC. (NO BB)  
 2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (7 1/2" BB)

Recovered 4680 ft. of GAS IN PIPE  
 Recovered 75 ft. of GO, 8% GAS, 92% OIL, GRAVITY: 34  
 Recovered 250 ft. of G,MCO, 13% GAS, 74% OIL, 13% MUD  
 Recovered 345 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>4% GAS, 67% OIL, 29% MUD</u>	Total

Time Set Packer(s) 4:41 PM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 9:16 PM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 124 deg.

Initial Hydrostatic Pressure..... (A) 2358 P.S.I.  
 Initial Flow Period..... Minutes 5 (B) 64 P.S.I. to (C) 66 P.S.I.  
 Initial Closed In Period..... Minutes 60 (D) 1279 P.S.I.  
 Final Flow Period..... Minutes 60 (E) 75 P.S.I. to (F) 147 P.S.I.  
 Final Closed In Period..... Minutes 120 (G) 1116 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2357 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

# DIAMOND TESTING

## General Information Report

### General Information

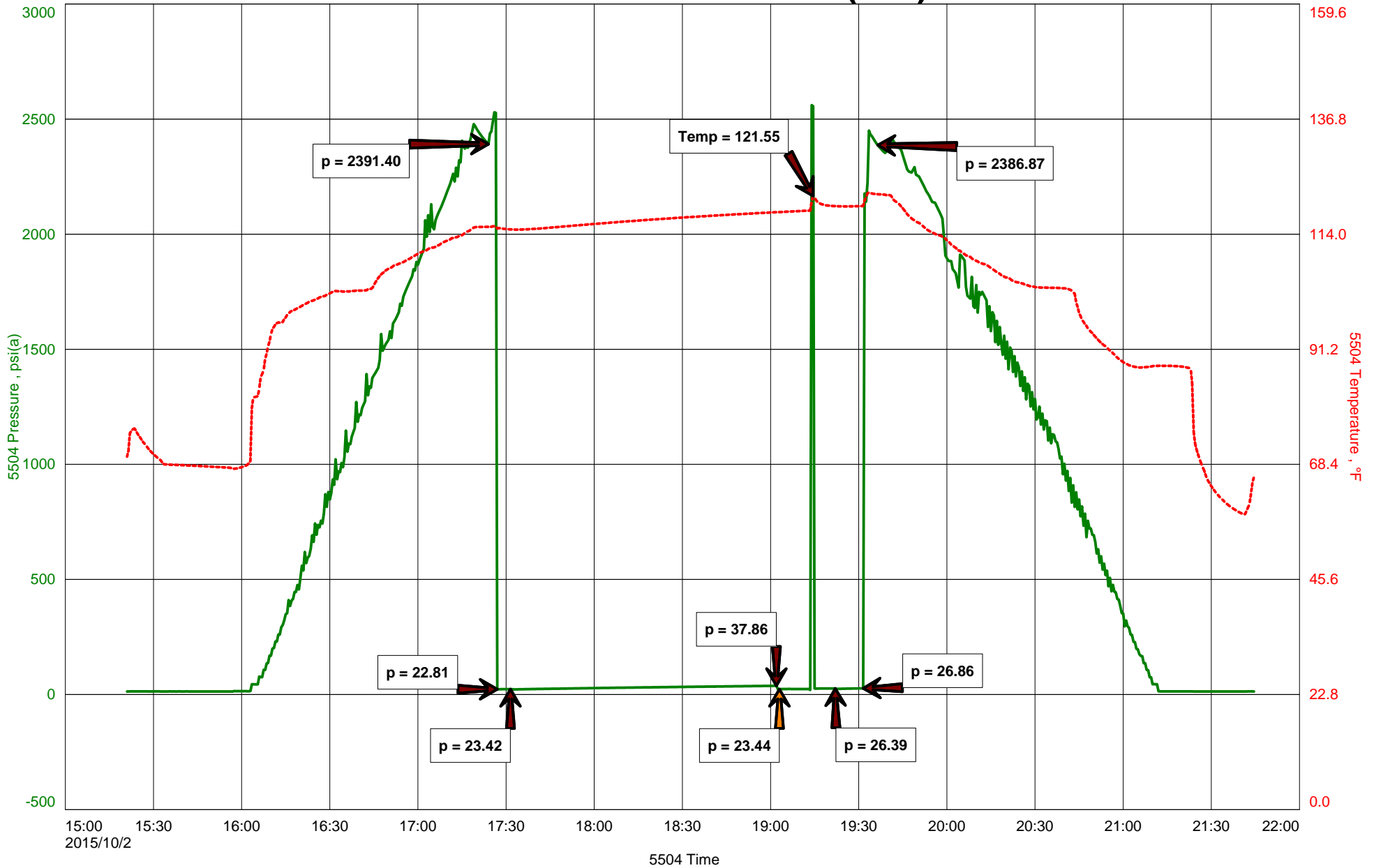
<b>Company Name</b>	FALCON EXPLORATION, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	JASON MITCHELL	<b>Well Operator</b>	FALCON EXPLORATION, INC.
<b>Well Name</b>	CARRIE NICHOLS #1-5 (SW)	<b>Report Date</b>	2014/10/02
<b>Unique Well ID</b>	DST #4, MISS/ST. GEN, 5084-5124	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 5-28S-29W, GRAY CO. KS.	<b>Qualified By</b>	KEITH REAVIS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #4, MISS/ST. GEN, 5084-5124		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2015/10/02	<b>Start Test Time</b>	15:21:00
<b>Final Test Date</b>	2015/10/02	<b>Final Test Time</b>	21:45:00

### Test Recovery:

RECOVERED: 2' MUD

TOOL SAMPLE: 100% MUD

# CARRIE NICHOLS #1-5 (SW)





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

TIME ON: 15:21  
TIME OFF: 21:45

**DRILL-STEM TEST TICKET**  
FILE: CARRIENICHOLS1-5SWDST4

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
Elevation 2795 KB Formation MISS/ST. GEN Effective Pay \_\_\_\_\_ Ft. Ticket No. T501  
Date 10-2-15 Sec. 5 Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County GRAY State KANSAS  
Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 5084 ft. to 5124 ft. Total Depth 5124 ft.  
Packer Depth 5079 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 5084 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 5065 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 5121 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 63 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3,300 P.P.M. Drill Pipe Length 4991 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 40 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: VERY WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO BB)  
2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 2 ft. of MUD  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: WE FLUSHED TOOL 10 MIN. INTO FINAL FLOW PERIOD AND JUST GOT THE SURGE BLOW.  
TOOL SAMPLE: 100% MUD

Time Set Packer(s) 5:27 PM A.M. P.M. Time Started Off Bottom 7:32 PM A.M. P.M. Maximum Temperature 122 deg.

Initial Hydrostatic Pressure..... (A) 2391 P.S.I.  
Initial Flow Period..... Minutes 5 (B) 23 P.S.I. to (C) 23 P.S.I.  
Initial Closed In Period..... Minutes 90 (D) 38 P.S.I.  
Final Flow Period..... Minutes 20 (E) 23 P.S.I. to (F) 26 P.S.I.  
Final Closed In Period..... Minutes 10 (G) 27 P.S.I.  
Final Hydrostatic Pressure..... (H) 2387 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.



# DIAMOND TESTING

## General Information Report

### General Information

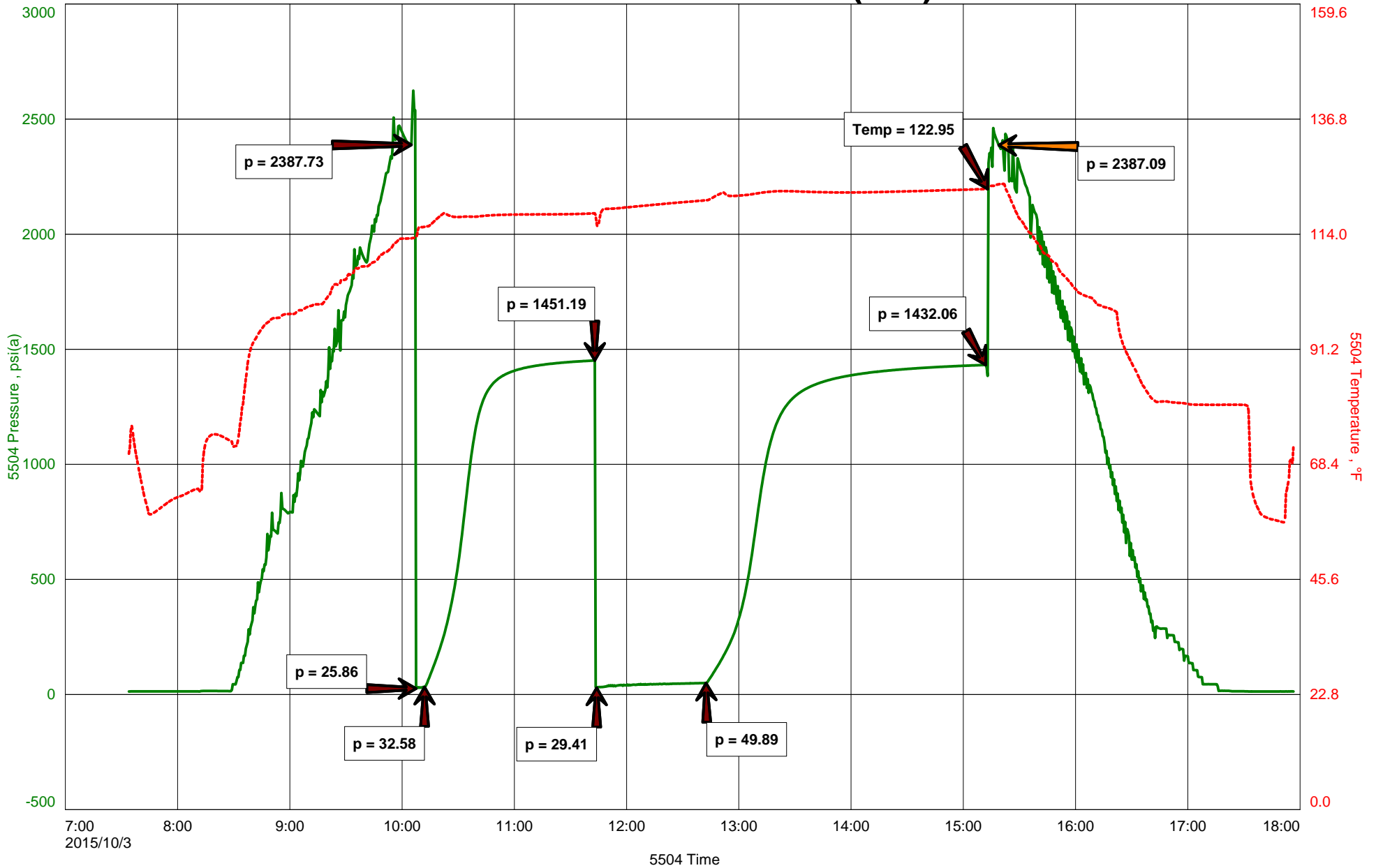
<b>Company Name</b>	FALCON EXPLORATION, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	JASON MITCHELL	<b>Well Operator</b>	FALCON EXPLORATION, INC.
<b>Well Name</b>	CARRIE NICHOLS #1-5 (SW)	<b>Report Date</b>	2015/10/03
<b>Unique Well ID</b>	DST #5, ST. LOUIS "A", 5141-5163	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 5-28S-29W, GRAY CO. KS.	<b>Qualified By</b>	KEITH REAVIS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #5, ST. LOUIS "A", 5141-5163		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2015/10/03	<b>Start Test Time</b>	07:34:00
<b>Final Test Date</b>	2015/10/03	<b>Final Test Time</b>	17:57:00

### Test Recovery:

RECOVERED: 1405 GIP  
5' MC FR.O, 75% FROTHY OIL, 25% MUD  
60' G,SMCO, 8% GAS, 83% OIL, 9% MUD  
65' TOTAL FLUID

TOOL SAMPLE: GAS BLEW OUT

# CARRIE NICHOLS #1-5 (SW)





**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (800) 542-7313

TIME ON: 07:34  
 TIME OFF: 17:57

**DRILL-STEM TEST TICKET**  
 FILE: CARRIENICHOLS1-5SWDST5

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
 Elevation 2795 KB Formation ST. LOUIS "A" Effective Pay \_\_\_\_\_ Ft. Ticket No. T502  
 Date 10-3-15 Sec. 5 Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 5 Interval Tested from 5141 ft. to 5163 ft. Total Depth 5163 ft.  
 Packer Depth 5136 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 5141 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 5122 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) 5160 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
 Weight 9.1 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 2,900 P.P.M. Drill Pipe Length 5048 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 22 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 5 INCHES. (NO BB)  
 2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (NO BB)

Recovered 1405 ft. of GAS IN PIPE  
 Recovered 5 ft. of MC FR. O, 75% FROTHY OIL, 25% MUD  
 Recovered 60 ft. of G, SMCO, 8% GAS, 83% OIL, 9% MUD  
 Recovered 65 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>WE BLEED LINE OFF 10 MIN. INTO FINAL FLOW PERIOD AND IT TOOK 9 1/2 MIN. TO GET BACK TO BOTTOM.</u>	Insurance
<u>TOOL SAMPLE: GAS BLEW OUT</u>	Total

Time Set Packer(s) 10:07 AM A.M. P.M. Time Started Off Bottom 3:12 PM A.M. P.M. Maximum Temperature 123 deg.

Initial Hydrostatic Pressure..... (A) 2388 P.S.I.  
 Initial Flow Period..... Minutes 5 (B) 26 P.S.I. to (C) 33 P.S.I.  
 Initial Closed In Period..... Minutes 90 (D) 1451 P.S.I.  
 Final Flow Period..... Minutes 60 (E) 30 P.S.I. to (F) 50 P.S.I.  
 Final Closed In Period..... Minutes 150 (G) 1432 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2389 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

# DIAMOND TESTING

## General Information Report

### General Information

<b>Company Name</b>	FALCON EXPLORATION, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	JASON MITCHELL	<b>Well Operator</b>	FALCON EXPLORATION, INC.
<b>Well Name</b>	CARRIE NICHOLS #1-5 (SW)	<b>Report Date</b>	2015/10/04
<b>Unique Well ID</b>	DST #6, ST. LOUIS "B", 5175-5193	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 5-28S-29W, GRAY CO. KS.	<b>Qualified By</b>	KEITH REAVIS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #6, ST. LOUIS "B", 5175-5193		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2015/10/04	<b>Start Test Time</b>	04:06:00
<b>Final Test Date</b>		<b>Final Test Time</b>	
<b>Gauge Name</b>			
<b>Gauge Serial Number</b>			

### Test Recovery:

RECOVERED: 365' GAS IN PIPE  
15' CO, 100% OIL, GRAVITY: 23  
5' SOCM, 8% OIL, 92% MUD  
60' G,HO&WCM, 8% GAS, 24% OIL, 28% WATER, 40% MUD  
80' TOTAL FLUID

TOOL SAMPLE: 3% OIL, 94% WATER, 3% MUD

CHLORIDES: 40,000 ppm  
PH: 7.0  
RW: .17 @ 67 deg.



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 04:06  
 TIME OFF: N/A

**DRILL-STEM TEST TICKET**  
 FILE: CARRIENICHOLS1-5SWDST6

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
 Elevation 2795 KB Formation ST. LOUIS "B" Effective Pay \_\_\_\_\_ Ft. Ticket No. T503  
 Date 10-4-15 Sec. 5 Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 6 Interval Tested from 5175 ft. to 5193 ft. Total Depth 5193 ft.  
 Packer Depth 5170 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 5175 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 5156 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) 5190 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
 Weight 9.0 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 2,400 P.P.M. Drill Pipe Length 5082 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 18 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1 INCH. (NO BB)  
 2nd Open: WEAK 1 INCH BLOW, BUILDING, REACHING BOB 56 1/2 MIN. (NO BB)

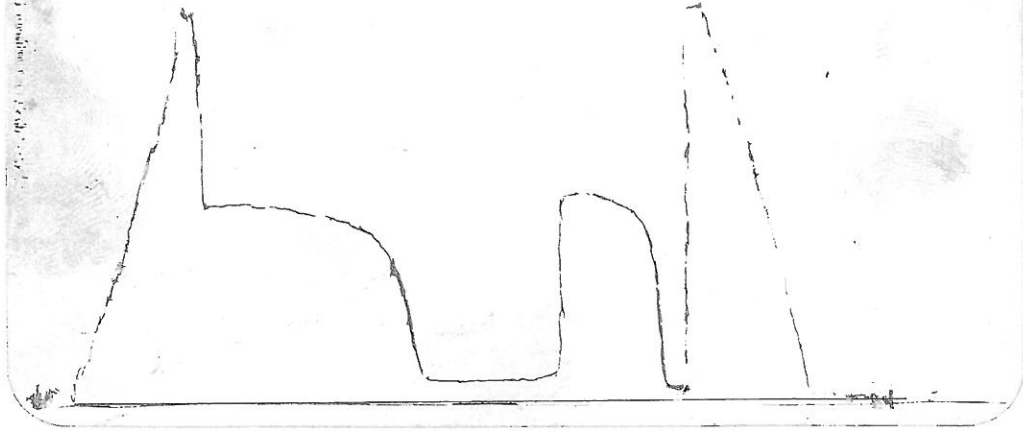
Recovered <u>365</u> ft. of <u>GAS IN PIPE</u>	
Recovered <u>15</u> ft. of <u>CLEAN OIL, 100% OIL, GRAVITY: 23</u>	
Recovered <u>5</u> ft. of <u>SOCM, 8% OIL, 92% MUD</u>	
Recovered <u>60</u> ft. of <u>G,HO&amp;WCM, 8% GAS, 24% OIL, 28% WATER, 40% MUD</u>	
Recovered <u>80</u> ft. of <u>TOTAL FLUID</u>	CHLORIDES: 40,000 ppm
Recovered _____ ft. of _____	PH: 7.0
Remarks: _____	RW: .17 @ 67 deg.
<u>I FORGOT TO PUT ELEC. IN TOOL FOR TEST.</u>	
<u>TOOL SAMPLE: 3% OIL, 94% WATER, 3% MUD</u>	
	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 6:38 AM A.M. P.M. Time Started Off Bottom 12:43 AM A.M. P.M. Maximum Temperature \_\_\_\_\_

Initial Hydrostatic Pressure..... (A) 2538 P.S.I.  
 Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 11 P.S.I.  
 Initial Closed In Period..... Minutes 90 (D) 1283 P.S.I.  
 Final Flow Period..... Minutes 90 (E) 13 P.S.I. to (F) 14 P.S.I.  
 Final Closed In Period..... Minutes 180 (G) 1271 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2538 P.S.I.

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10-4-15  
 Carrie Nichols #1-5 (SW)  
 #ST#6



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Electronic Reading	
(A) Initial Hydrostatic Mud .....	2538	PSI
(B) First Initial Flow Pressure .....	8	PSI
(C) First Final Flow Pressure.....	11	PSI
(D) Initial Closed-in Pressure.....	1283	PSI
(E) Second Initial Flow Pressure.....	13	PSI
(F) Second Final Flow Pressure.....	14	PSI
(G) Final Closed-in Pressure .....	1271	PSI
(H) Final Hydrostatic Mud.....	2538	PSI



# Cement Report

Customer <i>Falcon Exploration</i>		Lease No.		Date <i>9-23-15</i>	
Lease <i>Cornie Nichols</i>		Well # <i>1-5</i>		Service Receipt <i>1717 05475 A</i>	
Casing <i>8 5/8" 24#</i>	Depth <i>1874.71'</i>	County <i>Gray</i>		State <i>Ks.</i>	
Job Type <i>242 Surface</i>		Formation		Legal Description <i>5 28 29</i>	
Pipe Data			Perforating Data		Cement Data
Casing size <i>8 5/8" 24#</i>	Tubing Size	Shots/Ft		Lead <i>'A-Con' Blend</i>	
Depth <i>1874.71 ft.</i>	Depth	From	To	<i>400sk</i>	
Volume <i>116.91 bbl</i>	Volume	From	To	<i>2.95 ft<sup>3</sup>/sk 18.109 gal/sk</i>	
Max Press <i>2400 psi</i>	Max Press	From	To	Tail in Premium	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	<i>150sk Plus Cement</i>	
Plug Depth <i>1832.50</i>	Packer Depth	From	To	<i>1.34 ft<sup>3</sup>/sk 6.33 gal/sk</i>	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:30</i>					<i>On Location</i>
<i>5:40</i>					<i>Safety Meeting w/ BES Personnel</i>
<i>6:00</i>					<i>Rig Up</i>
<i>6:30</i>					<i>Run Float Equipment</i>
<i>9:00</i>					<i>Rig Up Head + Circulate</i>
<i>10:00</i>					<i>Pressure Test to 2400psi</i>
<i>10:05</i>					<i>Pump Stop Loss</i>
<i>10:10</i>	<i>200</i>		<i>210.1 bbl slurry</i>	<i>5.0</i>	<i>Pump Lead</i>
<i>10:50</i>	<i>200</i>		<i>35.7 bbl slurry</i>	<i>4.5</i>	<i>Pump Tail</i>
<i>11:00</i>					<i>Shutdown/Wash Pump/Displace</i>
	<i>50</i>		<i>10</i>	<i>5.0</i>	
	<i>50</i>		<i>40</i>	<i>5.0</i>	
	<i>180</i>		<i>50</i>	<i>4.7</i>	
	<i>210</i>		<i>60</i>	<i>4.5</i>	
	<i>300</i>		<i>70</i>	<i>4.4</i>	
	<i>350</i>		<i>80</i>	<i>4.3</i>	
	<i>450</i>		<i>96</i>	<i>4.1</i>	<i>Stage 5 minute waiting</i>
	<i>550</i>		<i>110</i>	<i>2.0</i>	<i>Slow Rate</i>
<i>11:50</i>	<i>550</i>		<i>116.9</i>	<i>0</i>	<i>Land Plug Pressure up to 1000psi</i>
					<i>Release Back Float Held</i>
<i>12:05</i>					<i>Job Complete</i>
Service Units	<i>78938</i>	<i>38117/19919</i>	<i>14355/19578</i>	<i>14354/37725</i>	
Driver Names	<i>Marc</i>	<i>Daniel</i>	<i>Rogelio</i>	<i>-</i>	

Leon  
Customer Representative

Tyce Davis  
Station Manager

Daniel Bond  
Cementer

Field Ticket Number: LIK1510061052      Field Ticket Date: Tuesday, October 06, 2015

**Bill To:**  
Falcon Exploration  
Wichita, Kansas 67208

**Job Name:** 02 Production/Long String  
**Well Location:** Gray, Kansas  
**Well Name:** CARRIE - NICHOLS  
**Well Number:** 1-5  
**Well Type:** New Well  
**Rig Number:** STERLING # 2  
**Shipping Point:** Liberal, KS  
**Sales Office:** Mid Con

PERSONEL		EQUIPMENT	
KIRBY HARPER	LENNY BAEZA	774	550
OSCAR SIGALA		562	744

SERVICES - SERVICES - SERVICES							
Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
PUMP, CASING CEMENT 4001-5000 FT	1.00	min. 4 hr	2,765.75	2765.75	1,299.90	53.0%	1,299.90
CMLP	1.00	per day	275.00	275.00	129.25	53.0%	129.25
PHDL	251.00	per cu. Ft.	2.48	622.48	1.17	53.0%	292.57
DRYG	534.00	ton-mile	2.75	1468.50	1.29	53.0%	690.20
MILV	50.00	per mile	4.40	220.00	2.07	53.0%	103.40
MIHV	50.00	per mile	7.70	385.00	3.62	53.0%	180.65

FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT							
Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
CB-5.5	2.00	each	395.00	790.00	185.65	53.0%	371.30
AFFS-5.5	1.00	each	545.00	545.00	256.15	53.0%	256.15
LBP-5.5	1.00	each	660.00	660.00	310.20	53.0%	310.20
CEN - 5.5	5.00	each	57.00	285.00	26.79	53.0%	133.35

MATERIALS - MATERIALS - MATERIALS							
Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
CW-HVS	12.00	bbl	25.00	300.00	11.75	53.0%	141.00
CB-ASA	150.00	sack	23.50	3,525.00	11.05	53.0%	1,656.75
CFL-210	71.00	pound	18.90	1,341.90	8.88	53.0%	630.69
CLC-KOL	750.00	pound	0.98	735.00	0.46	53.0%	345.45
CCC-200L	9.00	gal	26.90	242.10	12.64	53.0%	113.79
CB-APA-40604	50.00	sack	19.92	996.00	8.89	53.0%	444.62

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS							
Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
Additional hours, in excess of set hours	2.00	per hour	440.00	880.00	206.80	53.0%	413.60

	Gross	Discount	Final
Services Total	5,736.73	3,040.47	2,696.26
Equipment Total	2,280.00	1,208.40	1,071.60
Materials Total	7,090.00	3,757.70	3,332.30
Additional Items	880.00	466.40	413.60
<b>Final Total</b>	<b>15,986.73</b>	<b>8,472.97</b>	<b>7,513.76</b>

Allied Rep: \_\_\_\_\_  
Customer Agent: \_\_\_\_\_

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.  
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.  
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X   
Customer Signature

Field Ticket Total (USD):

**\$7,513.76**



**OPERATOR**

Company: Falcon Exploration, Inc  
 Address: 125 North Market  
 Suite 1252  
 Wichita, KS 67202  
 Contact Geologist: Brian Fisher  
 Contact Phone Nbr: 316-262-1378  
 Well Name: Carrie Nichols #1-5 (SW)  
 Location: Sec. 5 - T28S - R29W  
 API: 15-069-20494-0000  
 Pool:  
 State: Kansas  
 Field: Wildcat  
 Country: USA

Scale 1:240 Imperial

Well Name: Carrie Nichols #1-5 (SW)  
 Surface Location: Sec. 5 - T28S - R29W  
 Bottom Location:  
 API: 15-069-20494-0000  
 License Number: 5316  
 Spud Date: 9/21/2015 Time: 8:45 PM  
 Region: Gray County  
 Drilling Completed: 10/5/2015 Time: 12:05 PM  
 Surface Coordinates: 900' FSL & 1870' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2782.00ft  
 K.B. Elevation: 2795.00ft  
 Logged Interval: 3400.00ft To: 5425.00ft  
 Total Depth: 5425.00ft  
 Formation: Mississippian  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 Latitude:  
 N/S Co-ord: 900' FSL  
 E/W Co-ord: 1870' FWL

**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 #: 5  
 Rig Type: mud rotary  
 Spud Date: 9/21/2015 Time: 8:45 PM  
 TD Date: 10/5/2015 Time: 12:05 PM  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 2795.00ft Ground Elevation: 2782.00ft  
 K.B. to Ground: 13.00ft

**NOTES**

Due to positive results of DST's 2, 3, 5 & 6 as well as corresponding electrical log evaluation, it was determined to set and cement 5 1/2" production casing and further evaluate the Mississippian St. Louis, Cherokee Limestone and Marmaton Limestone through perforations and stimulation.

A Tooke Daq pressure detection system owned and operated by Sterling Drilling Company was employed on the drilling of this well. Drill time and gas data from said system was imported into this mudlog.

The 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 daily drilling report

DATE	7:00 AM DEPTH	REMARKS
09/25/2015		Geologist Keith Reavis on location @ 0825 hrs, 6164 ft, drilling ahead Cottonwood, Neva, Foraker, Stotler, gas kick in Stotler, gas kick warrants test,
09/26/2015	3565	short trip, ctch, TOH for test, conduct and complete DST #1, successful test, TIH w/bit, resume drilling, Tarkio
09/27/2015	3935	drilling ahead, Tarkio, Topeka, Lecompton, Heebner, Douglas, Lansing
09/28/2015	4363	drilling ahead, Lansing
09/29/2015	4714	drilling ahead, Lansing, Marmaton, show in Marmaton warrants test, short trip, TOH, back in w/tools, conduct DST #2
09/30/2015	4760	complete DST #2, successful test, TIH w/bit, ctch and re-condition mud, drilling ahead, Marmaton, Pawnee, Cherokee
10/01/2015	5005	drilling ahead, Cherokee, shows in lower Cherokee warrant test, TOH w/bit, conduct and complete DST #3, successful test
10/02/2015	5063	TIH w/bit, ctch, re-condition mud, resume drilling, Morrow, Mississippian show in St. Gen. Warrants test, conduct and complete DST #4, successful test, TIH w/bit, ctch,
10/03/2015	5163	resume drilling, show in St. Louis A warrants test, TOH, conduct DST #5, complete DST #5, successful test, slip line, TIH w/bit, resume drilling
10/04/2015	5193	Show and gas kick in St. Louis B porosity warrants test, TOH w/bit, in w/tools, conduct DST #6, successful test, TIH w/bit, resume drilling
10/05/2015	5344	rathole ahead to TD, TD @ 1205 hrs, ctch, TOH, conduct logging operations off loc 2000 hrs

## Falcon Exploration, Inc well comparison sheet

DRILLING WELL					COMPARISON WELL			
Carrie Nichols #1-5					Yost #1-6 (NW)			
900' FSL & 1870' FWL					1537' FNL & 660' FWL			
Sec 5-T28S-R29W					Sec 6-T28S-R29W			
2795 KB					2782 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Chase	2658	137	2653	142	2626	156	-19	-14
Winfield	2738	57	2733	62	2708	74	-17	-12
Towanda	2790	5	2778	17	2754	28	-23	-11
Fort Riley	2838	-43	2832	-37	2806	-24	-19	-13
Cottonwood	3100	-305	3097	-302	3063	-281	-24	-21
Neva	3164	-369	3159	-364	3127	-345	-24	-19
Foraker	3266	-471	3272	-477	3236	-454	-17	-23
Stotler	3526	-731	3522	-727	3476	-694	-37	-33
Tarkio	3599	-804	3600	-805	3548	-766	-38	-39
Topeka	3804	-1009	3803	-1008	3750	-968	-41	-40
Heebner	4154	-1359	4149	-1354	4120	-1338	-21	-16
Toronto	4173	-1378	4171	-1376	4137	-1355	-23	-21
Douglas	4193	-1398	4189	-1394	4160	-1378	-20	-16
Lansing	4249	-1454	4244	-1449	4213	-1431	-23	-18
Stark	4548	-1753	4544	-1749	4541	-1759	6	10
Marmaton	4724	-1929	4727	-1932	4702	-1920	-9	-12
Pawnee	4820	-2025	4820	-2025	4794	-2012	-13	-13

Cherokee	4860	-2065	4857	-2062	4833	-2051	-14	-11
Morrow Shale	5033	-2238	5028	-2233	5010	-2228	-10	-5
Miss St. Gen	5050	-2255	5043	-2248	5040	-2258	3	10
St. Louis A	5146	-2351	5146	-2351	5137	-2355	4	4
St. Louis B	5180	-2385	5177	-2382	5178	-2396	11	14
Total Depth	5425	-2630	5426	-2631	5384	-2602	-28	-29

### DST #1



**DIAMOND TESTING**  
P.O. Box 157  
HOISINGTON, KANSAS 67544  
(800) 542-7313

TIME ON: 04:21  
TIME OFF: 13:36

**DRILL-STEM TEST TICKET**  
FILE: CARRIENICHOLS1-5SWDST1

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
Elevation 2795 KB Formation STOTLER Effective Pay \_\_\_\_\_ FL Ticket No. T498  
Date 9-26-15 Sec. 5 Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County GRAY State KANSAS  
Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3496 ft. to 3565 ft. Total Depth 3565 ft.  
Packer Depth 3491 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3496 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3477 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3562 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
Weight 8.55 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 irr  
Chlorides 400 P.P.M. Drill Pipe Length 3403 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 37 ft. Size 4 1/2-FH irr  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>3" DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 irr

Blow, 1st Open: GOOD 1 1/2 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (NO BB)  
2nd Open: GOOD 1 1/2 INCH BLOW, BUILDING, REACHING BOB 13 1/2 MIN. (NO BB)

Recovered 50 ft. of WCM, 16% WATER, 84% MUD  
Recovered 130 ft. of HWCM, 45% WATER, 55% MUD  
Recovered 60 ft. of MCW, 79% WATER, 21% MUD  
Recovered 240 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 63,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 6.5	Other Charges
Remarks: _____	RW: .13 @ 78 deg.	Insurance
TOOL SAMPLE: TRACE OIL, 75% WATER, 25% MUD		Total

Time Set Packer(s) 6:43 AM A.M. P.M. Time Started Off Bottom 12:03 PM A.M. P.M. Maximum Temperature 106 deg.  
Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1594 P.S.I.  
Initial Flow Period \_\_\_\_\_ Minutes 5 (B) 35 P.S.I. to (C) 48 P.S.I.  
Initial Closed In Period \_\_\_\_\_ Minutes 90 (D) 899 P.S.I.  
Final Flow Period \_\_\_\_\_ Minutes 90 (E) 51 P.S.I. to (F) 137 P.S.I.  
Final Closed In Period \_\_\_\_\_ Minutes 135 (G) 812 P.S.I.  
Final Hydrostatic Pressure \_\_\_\_\_ (H) 1581 P.S.I.

### DST #2



**DIAMOND TESTING**  
P.O. Box 157  
HOISINGTON, KANSAS 67544  
(800) 542-7313

TIME ON: 16:43 9-29-15  
TIME OFF: 03:47 9-30-15

**DRILL-STEM TEST TICKET**  
FILE: CARRIENICHOLS1-5SWDST2

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
Elevation 2795 KB Formation MARMATON Effective Pay \_\_\_\_\_ FL Ticket No. T499

Date 9-29-15 Sec. 5 Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4740 ft. to 4760 ft. Total Depth 4760 ft.  
 Packer Depth 4735 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 4740 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) \_\_\_\_\_ 4721 ft. Recorder Number \_\_\_\_\_ 5504 Cap. \_\_\_\_\_ 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) \_\_\_\_\_ 4757 ft. Recorder Number \_\_\_\_\_ 11029 Cap. \_\_\_\_\_ 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type CHEMICAL Viscosity 49 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 2,660 P.P.M. Drill Pipe Length 4647 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: **WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (NO BB)**  
 2nd Open: **STRONG 7 INCH BLOW, BUILDING, REACHING BOB 30 SEC. (9" BB)**

Recovered <u>4300</u> ft. of <u>GAS IN PIPE</u>	
Recovered <u>30</u> ft. of <u>GO, 4% GAS, 96% OIL, GRAVITY: 32</u>	
Recovered <u>190</u> ft. of <u>G,SWCO, 27% GAS, 72% OIL, 1% WATER</u>	
Recovered <u>130</u> ft. of <u>G,W&amp;MCO, 20% GAS, 40% OIL, 21% WATER, 19% MUD</u>	
Recovered <u>60</u> ft. of <u>SO&amp;MCW, 4% OIL, 93% WATER, 3% MUD</u>	Price Job
Recovered <u>410</u> ft. of <u>TOTAL FLUID</u> CHLORIDES: <u>95,000</u> ppm	Other Charges
Remarks: _____ PH: <u>6.0</u>	Insurance
_____ RW: <u>.15 @ 66 deg.</u>	Total
TOOL SAMPLE: <u>89% OIL, 10% WATER, 1% MUD</u>	

Time Set Packer(s) 7:06 PM A.M. P.M. Time Started Off Bottom 1:11 AM A.M. P.M. Maximum Temperature 125 deg.  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) 2306 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 5 (B) 38 P.S.I. to (C) 50 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 90 (D) 1436 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 90 (E) 55 P.S.I. to (F) 185 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 180 (G) 1380 P.S.I.  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 2296 P.S.I.

**DST #3**



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: CARRIENICHOLS1-5SWDST3

TIME ON: 14:24  
 TIME OFF: 23:59

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
 Elevation 2795 KB Formation CHEROKEE Effective Pay \_\_\_\_\_ Ft. Ticket No. T500  
 Date 10-1-15 Sec. 5 Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4957 ft. to 5031 ft. Total Depth 5031 ft.  
 Packer Depth 4952 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 4957 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) \_\_\_\_\_ 4938 ft. Recorder Number \_\_\_\_\_ 5504 Cap. \_\_\_\_\_ 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) \_\_\_\_\_ 5028 ft. Recorder Number \_\_\_\_\_ 11029 Cap. \_\_\_\_\_ 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type CHEMICAL Viscosity 50 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 4,300 P.P.M. Drill Pipe Length 4864 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size	Tool Joint Size	Surface Choke Size	Bottom Choke Size
Blow: 1st Open: <b>STRONG 5 INCH BLOW, BUILDING, REACHING BOB 25 SEC.</b>			<b>(NO BB)</b>
2nd Open: <b>VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY.</b>			<b>(7 1/2" BB)</b>
Recovered	4680 ft. of	GAS IN PIPE	
Recovered	75 ft. of	GO, 8% GAS, 92% OIL, GRAVITY: 34	
Recovered	250 ft. of	G,MCO, 13% GAS, 74% OIL, 13% MUD	
Recovered	345 ft. of	TOTAL FLUID	
Recovered	ft. of	Price Job	
Recovered	ft. of	Other Charges	
Remarks:			Insurance
TOOL SAMPLE: 4% GAS, 67% OIL, 29% MUD			Total
Time Set Packer(s)	<b>4:41 PM</b>	A.M. P.M.	Time Started Off Bottom
			<b>9:16 PM</b>
			A.M. P.M.
			Maximum Temperature
			<b>124 deg.</b>
Initial Hydrostatic Pressure			<b>2358</b> P.S.I.
Initial Flow Period	Minutes	<b>5</b> (B)	<b>64</b> P.S.I. to (C) <b>66</b> P.S.I.
Initial Closed In Period	Minutes	<b>60</b> (D)	<b>1279</b> P.S.I.
Final Flow Period	Minutes	<b>60</b> (E)	<b>75</b> P.S.I. to (F) <b>147</b> P.S.I.
Final Closed In Period	Minutes	<b>120</b> (G)	<b>1116</b> P.S.I.
Final Hydrostatic Pressure			<b>2357</b> P.S.I.

### DST #4



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: CARRIENICHOLS1-5SWDST4

TIME ON: **15:21**  
TIME OFF: **21:45**

Company **FALCON EXPLORATION, INC.** Lease & Well No. **CARRIE NICHOLS #1-5 (SW)**  
Contractor **STERLING DRILLING COMPANY RIG #5** Charge to **FALCON EXPLORATION, INC.**  
Elevation **2795 KB** Formation **MISS/ST. GEN** Effective Pay \_\_\_\_\_ Ft. Ticket No. **T501**  
Date **10-2-15** Sec. **5** Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County **GRAY** State **KANSAS**  
Test Approved By **KEITH REAVIS** Diamond Representative **TIMOTHY T. VENTERS**

Formation Test No. **4** Interval Tested from **5084** ft. to **5124** ft. Total Depth **5124** ft.  
Packer Depth **5079** ft. Size **6 3/4** in. Packer depth \_\_\_\_\_ ft. Size **6 3/4** in.  
Packer Depth **5084** ft. Size **6 3/4** in. Packer depth \_\_\_\_\_ ft. Size **6 3/4** in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) **5065** ft. Recorder Number **5504** Cap. **5,000** P.S.I.  
Bottom Recorder Depth (Outside) **5121** ft. Recorder Number **11029** Cap. **5,025** P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type **CHEMICAL** Viscosity **63** Drill Collar Length **60** ft. I.D. **2 1/4** in.  
Weight **8.9** Water Loss **8.0** cc. Weight Pipe Length **0** ft. I.D. **2 7/8** in.  
Chlorides **3,300** P.P.M. Drill Pipe Length **4991** ft. I.D. **3 1/2** in.  
Jars: Make **STERLING** Serial Number **2** Test Tool Length **33** ft. Tool Size **3 1/2-IF** in.  
Did Well Flow? **NO** Reversed Out **NO** Anchor Length **40** ft. Size **4 1/2-FH** in.  
Main Hole Size **7 7/8** Tool Joint Size **4 1/2 XH** in. Surface Choke Size **1** in. Bottom Choke Size **5/8** in.

Blow: 1st Open: **VERY WEAK SURFACE BLOW THROUGHOUT PERIOD.** **(NO BB)**  
2nd Open: **NO BLOW THROUGHOUT PERIOD.** **(NO BB)**

Recovered	2 ft. of	MUD	
Recovered	ft. of		
Recovered	ft. of		
Recovered	ft. of		
Recovered	ft. of	Price Job	
Recovered	ft. of	Other Charges	
Remarks:	<b>WE FLUSHED TOOL 10 MIN. INTO FINAL FLOW PERIOD AND JUST GOT THE SURGE BLOW.</b>		Insurance
TOOL SAMPLE: 100% MUD			Total

Time Set Packer(s) **5:27 PM** A.M.  
P.M. Time Started Off Bottom **7:32 PM** A.M.  
P.M. Maximum Temperature **122 deg.**

Initial Hydrostatic Pressure (A) **2391** P.S.I.  
Initial Flow Period Minutes **5** (B) **23** P.S.I. to (C) **23** P.S.I.  
Initial Closed In Period Minutes **90** (D) **38** P.S.I.  
Final Flow Period Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure (H) \_\_\_\_\_ P.S.I.

Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
 Final Flow Period..... Minutes \_\_\_\_\_ 20 (E) \_\_\_\_\_ 23 P.S.I. to (F) \_\_\_\_\_ 26 P.S.I.  
 Final Closed In Period..... Minutes \_\_\_\_\_ 10 (G) \_\_\_\_\_ 27 P.S.I.  
 Final Hydrostatic Pressure..... (H) \_\_\_\_\_ 2387 P.S.I.

**DST #5**



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 07:34  
 TIME OFF: 17:57

**DRILL-STEM TEST TICKET**  
 FILE: CARRIENICHOLS1-5SWDST5

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
 Elevation 2795 KB Formation ST. LOUIS "A" Effective Pay \_\_\_\_\_ Ft. Ticket No. T502  
 Date 10-3-15 Sec. 5 Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 5 Interval Tested from 5141 ft. to 5163 ft. Total Depth 5163 ft.  
 Packer Depth 5136 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 5141 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) \_\_\_\_\_ 5122 ft. Recorder Number \_\_\_\_\_ 5504 Cap. \_\_\_\_\_ 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) \_\_\_\_\_ 5160 ft. Recorder Number \_\_\_\_\_ 11029 Cap. \_\_\_\_\_ 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.  
 Weight 9.1 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 2,900 P.P.M. Drill Pipe Length 5048 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 22 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 5 INCHES. (NO BB)  
 2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (NO BB)

Recovered 1405 ft. of GAS IN PIPE  
 Recovered 5 ft. of MC FR. O, 75% FROTHY OIL, 25% MUD  
 Recovered 60 ft. of G, SMCO, 8% GAS, 83% OIL, 9% MUD  
 Recovered 65 ft. of TOTAL FLUID  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Price Job \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Other Charges \_\_\_\_\_  
 Remarks: WE BLEED LINE OFF 10 MIN. INTO FINAL FLOW PERIOD AND IT TOOK 9 1/2 MIN. TO GET BACK TO BOTTOM. Insurance \_\_\_\_\_  
 TOOL SAMPLE: GAS BLEW OUT Total \_\_\_\_\_

Time Set Packer(s) 10:07 AM A.M. P.M. Time Started Off Bottom 3:12 PM A.M. P.M. Maximum Temperature 123 deg.  
 Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ 2388 P.S.I.  
 Initial Flow Period..... Minutes \_\_\_\_\_ 5 (B) \_\_\_\_\_ 26 P.S.I. to (C) \_\_\_\_\_ 33 P.S.I.  
 Initial Closed In Period..... Minutes \_\_\_\_\_ 90 (D) \_\_\_\_\_ 1451 P.S.I.  
 Final Flow Period..... Minutes \_\_\_\_\_ 60 (E) \_\_\_\_\_ 30 P.S.I. to (F) \_\_\_\_\_ 50 P.S.I.  
 Final Closed In Period..... Minutes \_\_\_\_\_ 150 (G) \_\_\_\_\_ 1432 P.S.I.  
 Final Hydrostatic Pressure..... (H) \_\_\_\_\_ 2389 P.S.I.

**DST #6**



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 04:06  
 TIME OFF: N/A

**DRILL-STEM TEST TICKET**  
 FILE: CARRIENICHOLS1-5SWDST6

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)  
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.  
 Elevation 2795 KB Formation ST. LOUIS "B" Effective Pay \_\_\_\_\_ Ft. Ticket No. T503  
 Date 10-4-15 Sec. 5 Twp. \_\_\_\_\_ 28 S Range \_\_\_\_\_ 29 W County GRAY State KANSAS  
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 6 Interval Tested from 5175 ft. to 5193 ft. Total Depth 5193 ft.

Packer Depth 5170 ft. Size 6 3/4 in. Packer depth          ft. Size 6 3/4 in.

Packer Depth 5175 ft. Size 6 3/4 in. Packer depth          ft. Size 6 3/4 in.

Depth of Selective Zone Set         

Top Recorder Depth (Inside) 5156 ft. Recorder Number 5504 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 5190 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth          ft. Recorder Number          Cap.          P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.

Weight 9.0 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 2,400 P.P.M. Drill Pipe Length 5082 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 18 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow, 1st Open: **WEAK SURFACE BLOW, BUILDING TO 1 INCH.** (NO BB)

2nd Open: **WEAK 1 INCH BLOW, BUILDING, REACHING BOB 56 1/2 MIN.** (NO BB)

Recovered 365 ft. of GAS IN PIPE

Recovered 15 ft. of CLEAN OIL, 100% OIL, GRAVITY: 23

Recovered 5 ft. of SOCM, 8% OIL, 92% MUD

Recovered 60 ft. of G,HO&WCM, 8% GAS, 24% OIL, 28% WATER, 40% MUD

Recovered 80 ft. of TOTAL FLUID CHLORIDES: 40,000 ppm Price Job

Recovered          ft. of          PH: 7.0 Other Charges

Remarks: RW: .17 @ 67 deg. Insurance

**I FORGOT TO PUT ELEC. IN TOOL FOR TEST.**

TOOL SAMPLE: 3% OIL, 94% WATER, 3% MUD Total

Time Set Packer(s) 6:38 AM A.M. P.M. Time Started Off Bottom 12:43 AM A.M. P.M. Maximum Temperature         

Initial Hydrostatic Pressure..... (A) 2538 P.S.I.

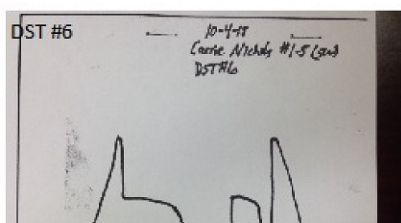
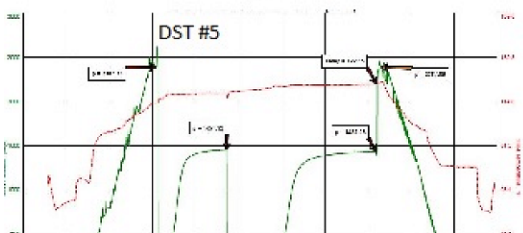
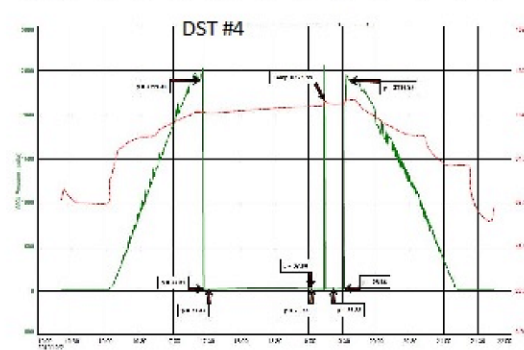
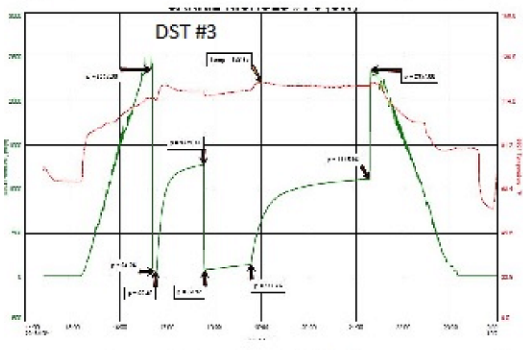
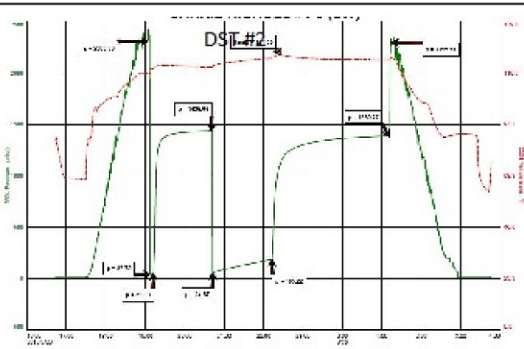
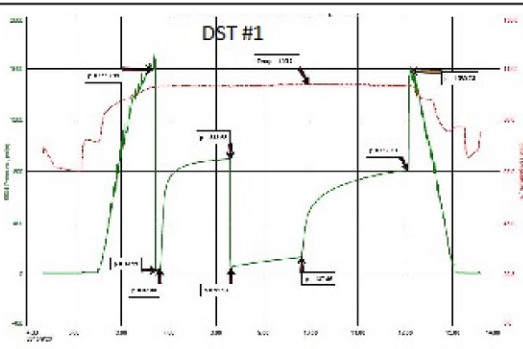
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 11 P.S.I.

Initial Closed In Period..... Minutes 90 (D) 1283 P.S.I.

Final Flow Period..... Minutes 90 (E) 13 P.S.I. to (F) 14 P.S.I.

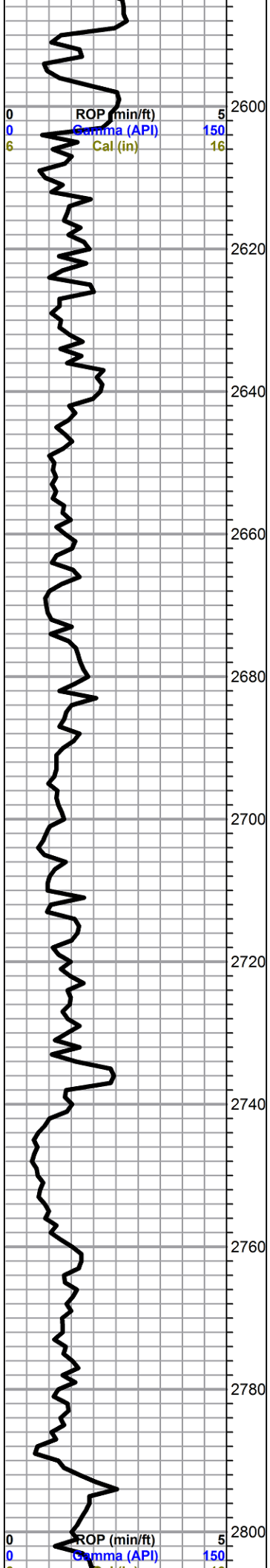
Final Closed In Period..... Minutes 180 (G) 1271 P.S.I.

Final Hydrostatic Pressure..... (H) 2538 P.S.I.





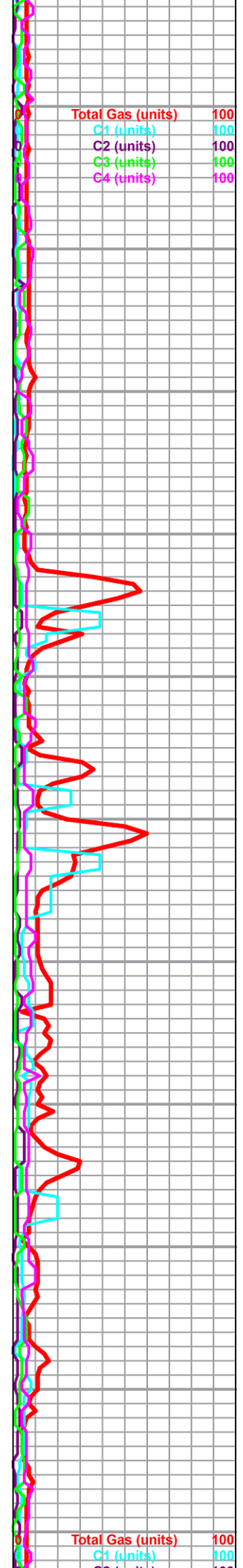




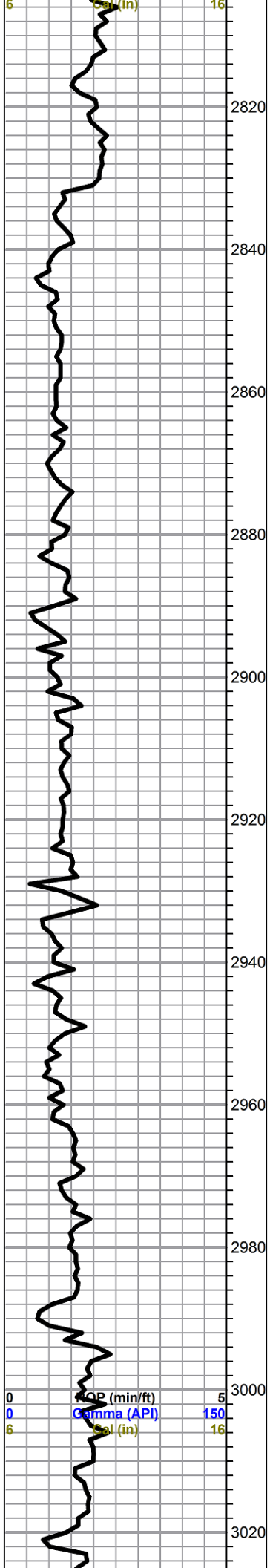
Chase Group 2658 +137 (log 2653 +142)

Winfield 2738 +57 (log 2733 +62)

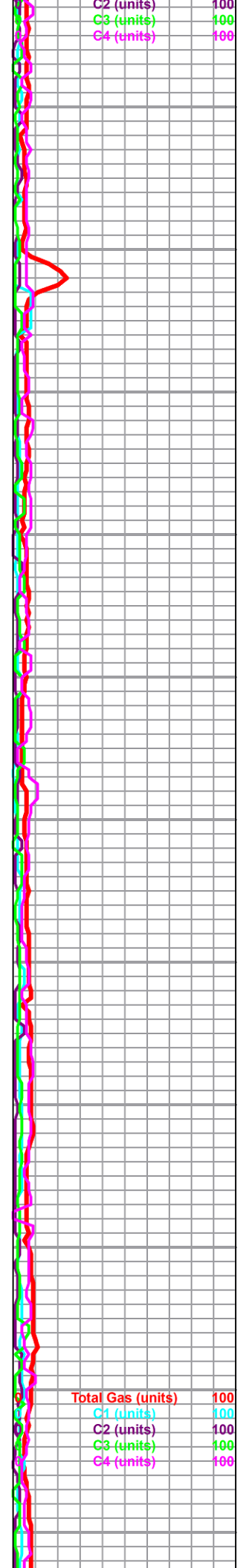
Towanda 2790 +5 (log 2778 +17)

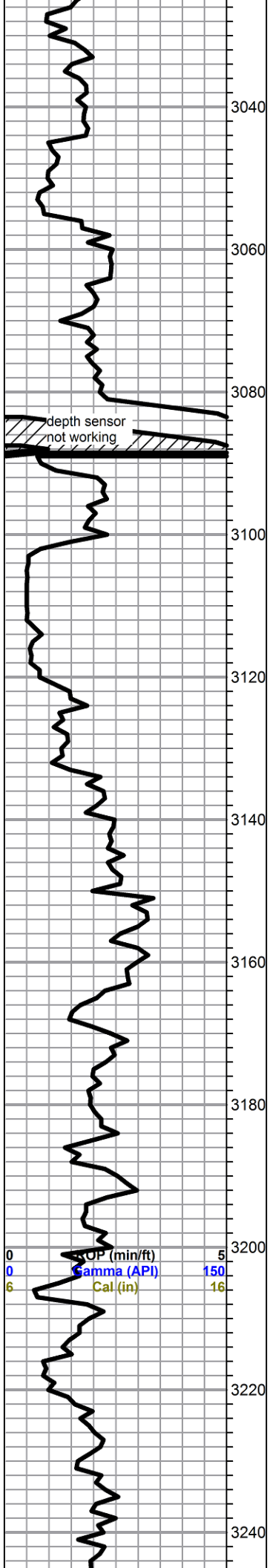


Total Gas (units) 100  
 C1 (units) 100



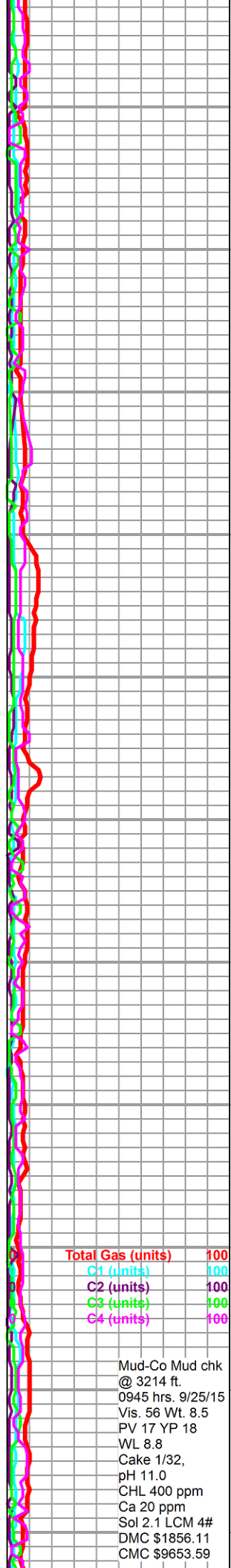
Ft. Riley 2838 -43 (log 2832 -37)





Cottonwood 3100 -305 (log 3097 -302)

Neva 3164 -369 (log 3159 -364)



Mud-Co Mud chk  
@ 3214 ft.  
0945 hrs. 9/25/15  
Vis. 56 Wt. 8.5  
PV 17 YP 18  
WL 8.8  
Cake 1/32,  
pH 11.0  
CHL 400 ppm  
Ca 20 ppm  
Sol 2.1 LCM 4#  
DMC \$1856.11  
CMC \$9653.59

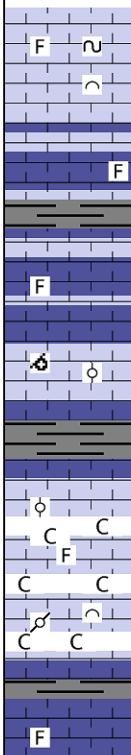
Foraker 3266 -471 (log 3272 -477)

3260  
3280  
3300  
3320  
3340  
3360  
3380  
3400  
3420  
3440  
3460

Elevation 2796 ft KB

begin 10 ft wet and dry samples @ 3400'

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



limestone, variable gray to tan, mottled, fossiliferous to bioclastic, trace pelletal, chalky, very grainy, some large clasts, slightly glauconitic, scattered porosity, no shows

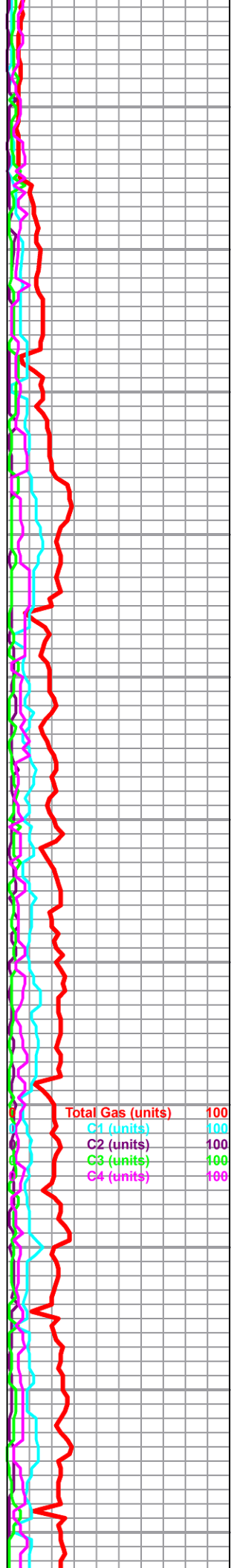
grades to limestone, cream to gray and tan, some mottling, microcrystalline, fossiliferous, some large clasts and some calcite crystals, poor overall porosity, no shows

limestone, cream, fine oolitic to oomoldic, scattered good oomold porosity, scattered chalk, no shows

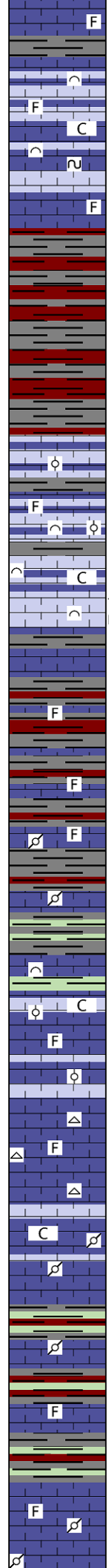
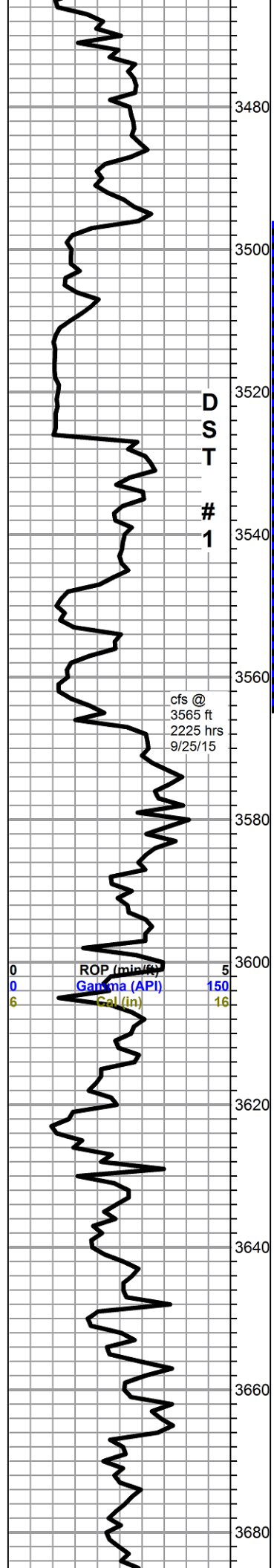
limestone, white to cream, fossiliferous to oolitic, sub-sucrosice texture, chalky to dense, poor overall visible porosity, flood chalk in samples, no shows

grades to lower bench of limestone, gray to tan mottled, pelletal to bioclastic, scattered porosity, very chalky, increased chalk in samples, no shows

limestone, cream, cryptocrystalline, fossiliferous, dense, fairly homogeneous, no shows, some chalk



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



limestone, gray, cream and tan mottled, microcrystalline, fossiliferous to bioclastic, some large clasts, chalky in part, glauconitic in part, poor visible porosity, no shows

a.a. above, facies slightly darker overall

red and gray shales

**DST #1: 3496-3565 (Stotler): 5-90-90-135. Good 1-1/2 inch blow on both opens. Recovered 240' water cut mud. IHP 1594# -- IFP'S 35-48 -- ISIP 899# -- FFP'S 51-137# -- FSIP 812 # -- FHP 1581#. BHT 106 degrees.**

**Stotler 3526 -731 (log 3522 -727)**

limestone, tan, cryptocrystalline, oolitic, chalky in part, poor porosity, grades to limestone, gray to cream and white, microcrystalline, mixed bioclastic to oolitic and fossiliferous, chalky to dense, some pinpoint porosity, no visible shows, some fair mineral fluorescence

limestone, cream to off-white, grainy bioclastic, some secondary calcite, chalky to dense, some visible pinpoint porosity, trace gas bubbles on break, fair to good even green/white fluorescence

shales, red and gray, with limestone stringers, variabe gray, crypto-microcrystalline, dense fossiliferous to arenaceous, no shows

shale and limestone a.a. with influx gray mottled pelletal limestone, chalky and brittle, no visible porosity, with limestone, cream, cryptocrystalline, sub-lithographic, dense

**Tarkio 3599 -804 (log 3600 -805)**

limetone, light gray to cream, microcrystalline, bioclastic/micro-oolitic, chalky in part, poor visible porosity, with limestone, tan to cream, cryptocrystalline, fossiliferous, dense, some gray/green shaley arenaceous limestone, abundant green shales, no shows

limestone, cream to tan and light gray, cryptocrystalline, fossiliferous, some sub-sucrosic and arenaceous, with flood chert, gray to light gray, fossilifeorus, sharp, fresh, no shows

limestone, gray, mottled, pelletal, chalky, no visible porosity, no shows

green and brown soft shales, with limestone, gray to tan, grainy mottled bioclastic to pelletal, chalky in part, no shows

shales as above, with limestone grading to cream and light gray, cryptocrystalline, fossiliferous, dense to chalky, no shows

limestone, mixed fossiliferous, mostly gray to brown mottled, pelletal with other fossil fragments, dense to chalky, poor visible porosity, no shows

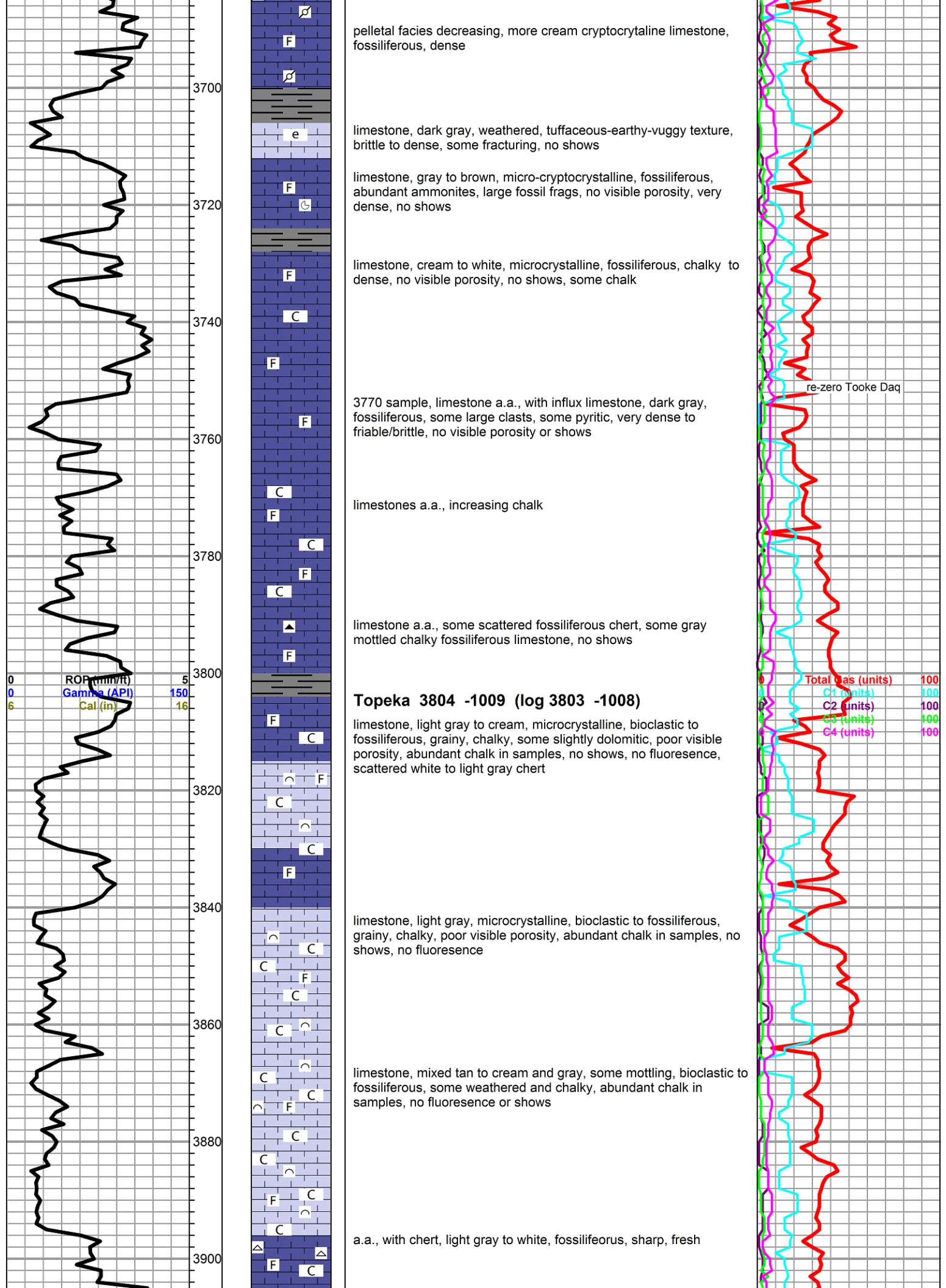
Mud-Co Mud chk @ 3565 ft.  
1025 hrs. 9/26/15  
Vis. 57 Wt. 8.95  
PV 16 YP 18  
WL 9.2  
Cake 1/32,  
pH 9.5  
CHL 1000 ppm  
Ca 20 ppm  
Sol 4.3 LCM 2#  
DMC \$1107.76  
CMC \$10761.35

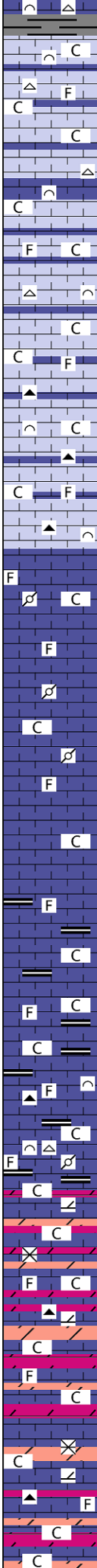
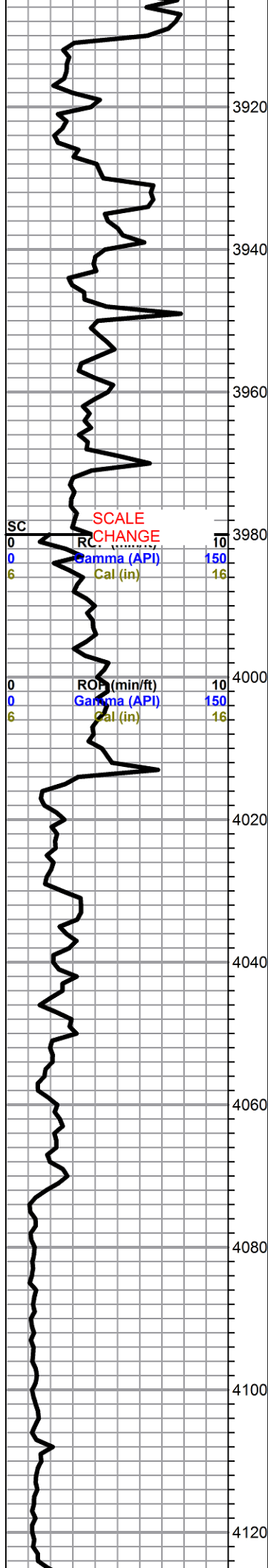
61 units total kick

52 unit recycle

strap 0.88 ft long to board deviation survey 1 deg.

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





limestone, light gray to tan, microcrystalline, fossiliferous to bioclastic, grainy, chalky to dense, some scattered interclast and pinpoint porosity, with: chert, white to light gray and tan, fossiliferous, some weathered, no shows, appx 20% chalk in samples

as above

3980 sample, limestone a.a. with flood dark gray fossiliferous cherts, sharp, fresh

limestone, grading to tan to cream, microcrystalline, grainy and chalky fossiliferous, some scattered porosity with: limestone, gray mottled, pelletal, some very chalky, abundant mixed cherts, fossiliferous, mostly sharp, fresh, some weathered, no shows

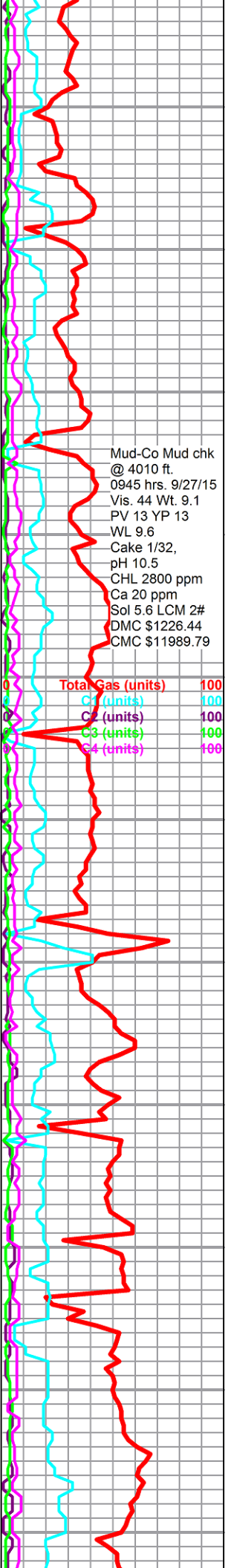
limestone, mixed non-descript fossiliferous, dense to chalky, no shows, abundant chalk

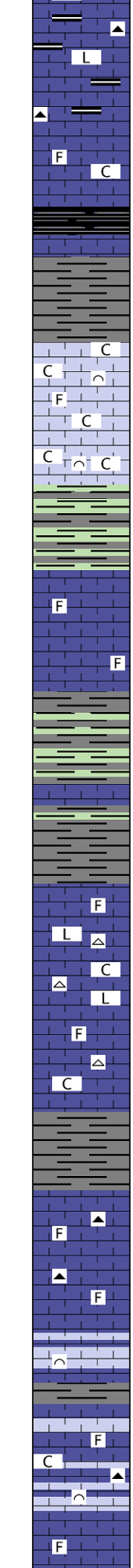
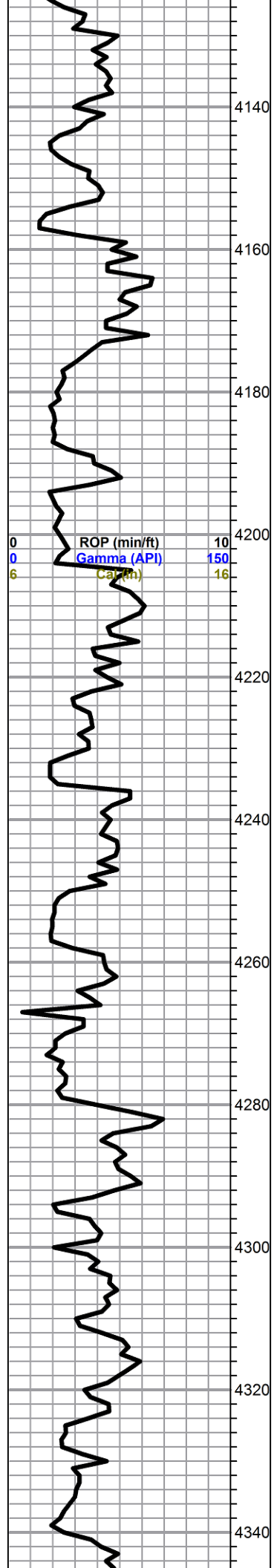
limestone a.a. influx carbonaceous shale

mixed limestone a.a. with influx of some grainy chalky bioclastic limestone, some scattered cherts, increasing chalk and carbonaceous shale

limestone, dolomitic, with dolomite, gray to tan and brown, microcrystalline, sucrosic to arenaceous, mostly dense, some slighty fossiliferous, scattered chert and large translucent dolomite crystals, poor visible porosity, abundant chalk (20-30%) no shows, no fluorescence

as above





limestone, gray to dark gray, cryptocrystalline, dense, sub-lithographic, cherty, with dark gray cherts, black fissile and dense/firm carbonaceous shale

limestone, light gray to cream, cryptocrystalline, fossiliferous, poor visible porosity, abundant chalk, no shows

**Heebner 4154 -1359 (4149 -1354)**

shale, brown/black carbonaceous

**Toronto 4173 -1378 (log 4171 -1376)**

limestone, dolomitic in part, light gray to cream, microcrystalline, sub-sucrosic to grainy, fossiliferous to bioclastic, some calcite seams, poor visible porosity, flood chalk, appx 30%, faint blueish fluorescence, no shows

**Douglas 4193 -1398 (log 4189 -1394)**

shale, gray and green, silty

limestone, gray/green, cryptocrystalline, fossiliferous to sub-lithographic to arenaceous, with: limestone, tan to gray, microcrystalline, fossiliferous, chalky to dense and cherty, some micro-oolitic, no shows

limestone, dark gray, cryptocrystalline, mostly lithographic, dense

**Lansing 4249 -1454 (log 4244 -1449)**

limestone, light gray, cryptocrystalline, lithographic to fossiliferous, chalky in part, with abundant chert, white to light gray, sharp, fresh, fossiliferous in part, abundant chalk, no shows or fluorescence

as above, limestone darker, chalkier and slightly grainy, cherts darker

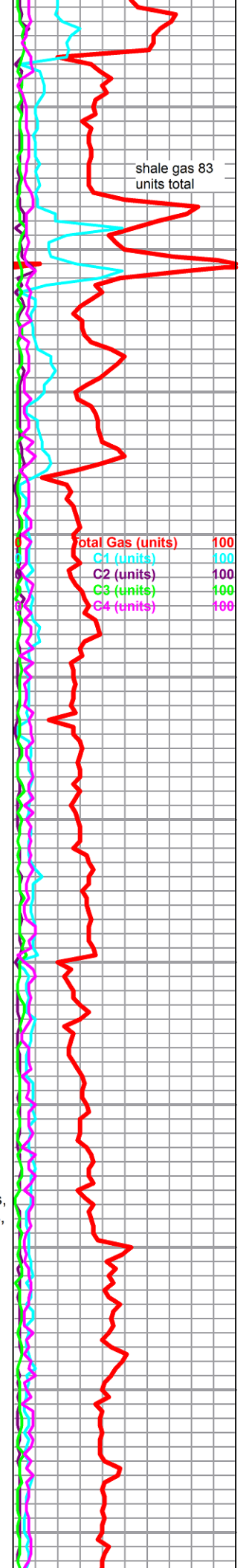
dark gray shaley lime to limey shale, fossiliferous

limestone, variable light gray to cream, microcrystalline, fossiliferous, grainy, poor visible porosity, some scattered gray fossiliferous cherts, no shows, no fluorescence

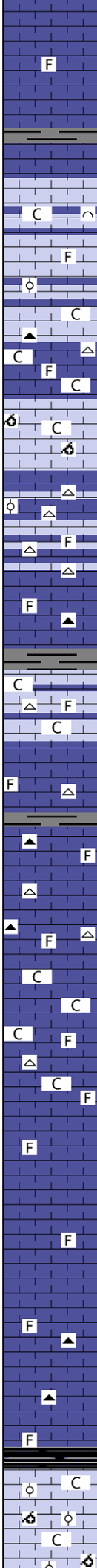
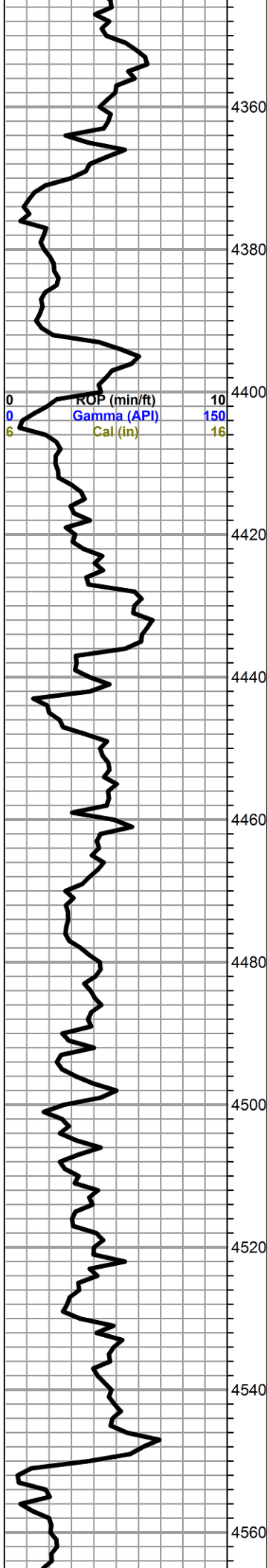
limestone, brown to gray, mottled, chalky, grainy, bioclastic, no shows

mixed limestone, variable gray to cream, micro-cryptocrystalline, fossiliferous to bioclastic, some lithographic, fairly chalky, some scattered inter-clast porosity, scattered brown to gray cherts, no shows, no fluorescence

variable limestones as above, overall darker gray limestones







limestones, mixed cream to dark gray fossiliferous, abundant cream grainy bioclastic and traces very fine oolitic, abundant chalk, no shows, some scattered chert

limestone a.a., flood gray and white cherts in 4400 sample  
flood chalk in 4410 sample

limestone, tan to gray, oomoldic, some fair oomoldic porosity, barren, abundant chalk

limestone a.a. with some oolitic limestone, abundant grainy chalky fossiliferous limestone, variable gray, abundant white weathered/slightly tripolitic cherts, moderate chalk, no shows

limestone, cream to gray, mostly cryptocrystalline, fossiliferous, dense, some cherts as above, no shows

limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, chalky, very abundant chalk, abundant gray fossiliferous chert, no shows

mixed non-descript fossiliferous, some lithographic, fairly chalky overall, no shows

limestones a.a., increasing chert, influx white chert

mixed non-descript fossiliferous limestones a.a., flood chalk, appx 20% in samples, marked decrease in chert

limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, chalky in part, poor visible porosity, some chalk, no shows

as above with gray to light gray fossiliferous cherts

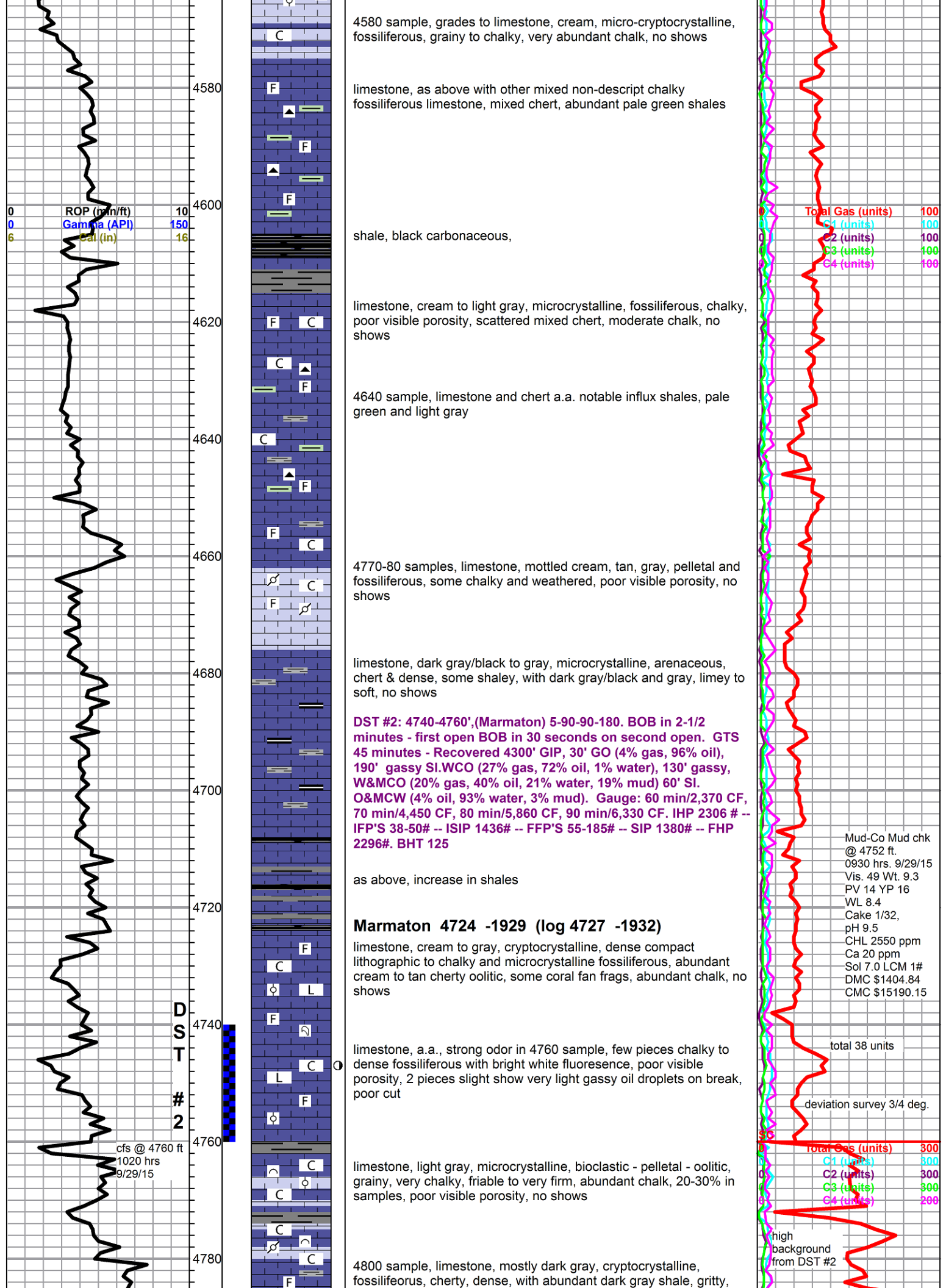
**Stark Shale 4548 -1753 (log 4544 -1749)**

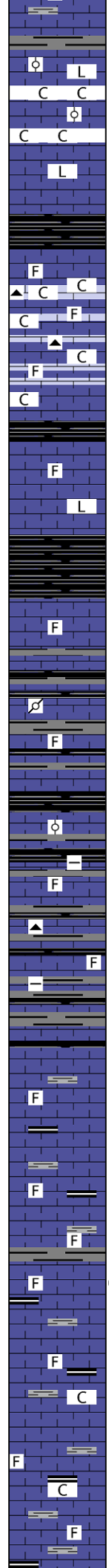
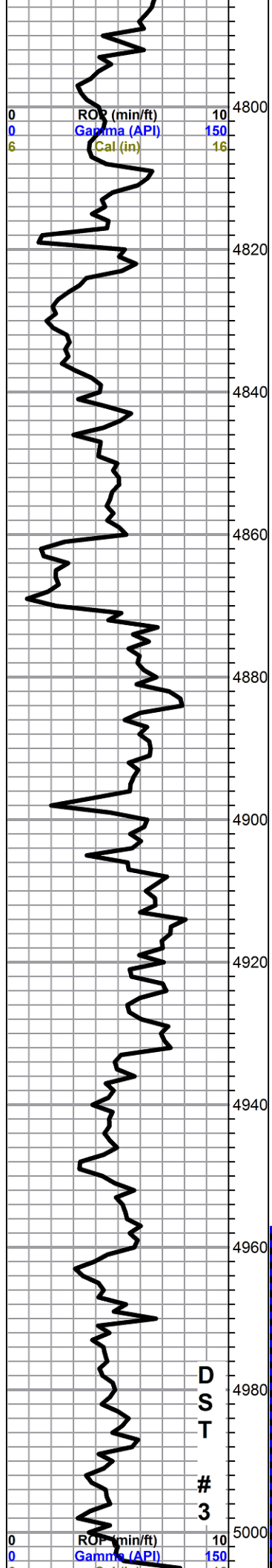
4560 sample, limestone, dark gray to tan, oolitic to sub-oomoldic, dense & cherty, poor overall visible porosity, abundant chalk with influx black carbonaceous shale, no shows

4570 sample, limestone a.a., grading to chalkier, slight increase in oomoldic - no shows

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

Mud-Co Mud chk  
 @ 4426ft.  
 0945 hrs. 9/28/15  
 Vis. 57 Wt. 9.2  
 PV 18 YP 19  
 WL 8.8  
 Cake 1/32,  
 pH 10.5  
 CHL 3600 ppm  
 Ca 20 ppm  
 Sol 6.3 LCM 1.5#  
 DMC \$1795.31  
 CMC \$13785.31





silty, no shows

limestone, white to light gray and cream, cryptocrystalline, oolitic to fossiliferous, no visible inter-oolite porosity, chalky to dense, abundant lithographic, dense, flood chalk in samples (30%+), with cream to light gray oolitic cherts, no shows or odor or fluorescence

a.a., decreasing chak, increasing lithographic

shale, black carbonaceous

**Pawnee 4820 -2025 (log 4820 -2025)**

limestone, light gray to cream, microcrystalline, fossiliferous to lithographic, chalky and friable to dense, some secondary calcite, flood chalk (20-30%), chert, smokey gray, fossiliferous, no shows

limestone, light gray, cryptocrystalline, fossiliferous to lithographic, dense, no shows

**Cherokee 4860 -2065 (log 4857 -2062)**

shale, black carbonaceous

limestone, variable gray to brown, micro-cryptocrystalline, dense, fossiliferous, some pelletal, abundant black and gray shales

a.a.

mixed limestone and back carbonaceous and gray shales, with limestone, dark gray/black, dense cherty lithographic to arenaceous and argillaceous, some scattered fossiliferous cherts, no shows

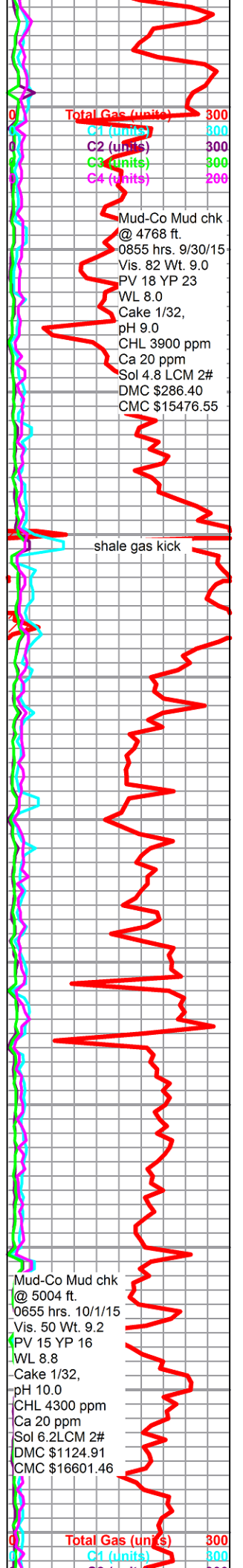
limestone, light gray to gray, micro-cryptocrystalline, fossiliferous, chalky in part, poor visible porosity, marked decrease in shales, no shows

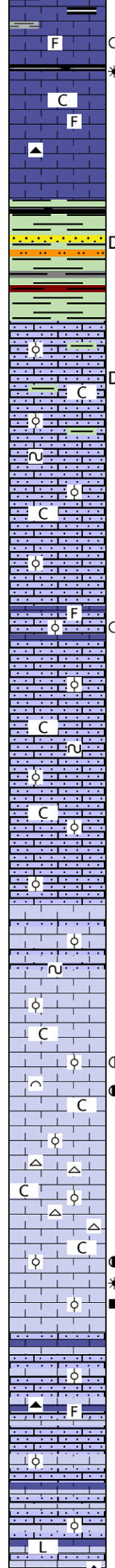
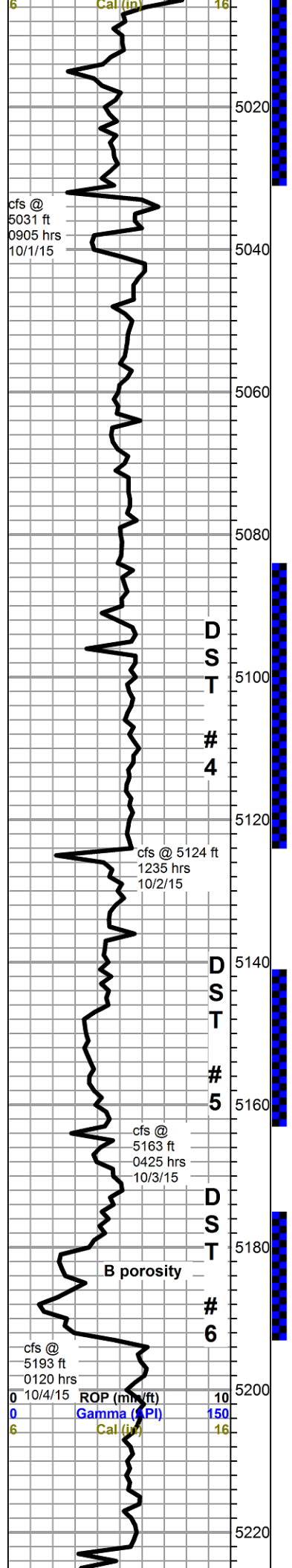
a.a.

limestone, gray to light brown, microcrystalline, fossiliferous, some small solution vugs and surface etching, light staining along vugs, no show free oil, sheen of oil on break, odor on break but no odor in wet cup, poor fluorescence, fair slow cut

limestones, mixed gray to cream and tan fossiliferous, dense to chalky, poor visible porosity, no shows, abundant black and gray shales,

**DST #3: 4957-5031' (Cherokee), 5-60-60-120. BOB in 25 seconds on first open. GTS in 1-1/2 minutes into initial flow period. Recovered, 75' GO (8% gas, 92% oil), 250' gassy MCO (13% gas, 74% oil, 13% mud). Gas gauge: 10 min/15.7 MCF, 20 min/22.9 mcf, 30 min/25 mcf, 40 min/25 mcf, 50 min/25 mcf, 50 min/25 mcf. IHP 2358# -- IFP'S 64-68# -- ISIP 1279# -- FFP'S 75-147# -- FSIP 1116# -- FHP 2357#. BHT 124 degrees.**





5020 & 30 sample, limestone, brown to light gray, microcrystalline, slightly fossiliferous, chalky to grainy in part, some small solution vugs and fracture porosity, light staining along vugs and fractures, some dead black staining on weathered chalky pieces, slight show free oil with scaly sheen and gas bubbles on break, faint odor in wet cup, poor fluorescence, light to fair cut

cfs samples, limestone grades to very dark gray, cryptocrystalline, dense, cherty, fossiliferous, scattered dark gray cherts, no shows

**Morrow 5033 -2238 (log 5028 -2062)**  
 shale, green with some red, black and gray, sandstone to siltstone, black/gray, very dense, well cemented, well rounded, poor sorting, poor porosity, dead stain, some pale green shaley friable very fine grain, sandstone, fair rounding and sorting, no show

**Miss St. Gen 5050 -2255 (log 5043 -2248)**  
 limestone, white to light gray, micro-oolitic and sandy, chalky, slightly glauconitic, poor visible porosity, mostly barren but some spotty to saturated brown to black stain, no show free oil, no odor, no fluorescence, with shale, turquoise, pyritic

as above, few very chalky oolitic specimens with little sand, larger oolites, decreasing show and shales dropping out

limestone a.a., with sandy micro-oolitic and fossiliferous in firm cryptocrystalline matrix, light brown with brown stain and slight show gassy free oil, sandy, slight interclast porosity, no odor in wet cup, faint odor on break, no fluorescence, faint slow cut

5110 sample, oolitic sandy facies as above, show facies drops out

5120-5124 cfs sample, a.a. no shows

**DST #4: 5084-5124' (Miss/St Gen):5-90-20-10. Weak blow on first open, no blow on second. Recovered 2' mud. IHP 2391# -- IFP'S 23-23# -- ISIP 38# -- FFP'S 23-26# -- FSIP 27# -- FHP 2387#.**  
**BHT 122 degrees.**

grades to limestone, white to cream and light gray with some pale green tinting, oolitic, mature to flattened, fine to medium, chalky, glauconitic in part, poor visible porosity, very faint even mineral fluorescence, no shows

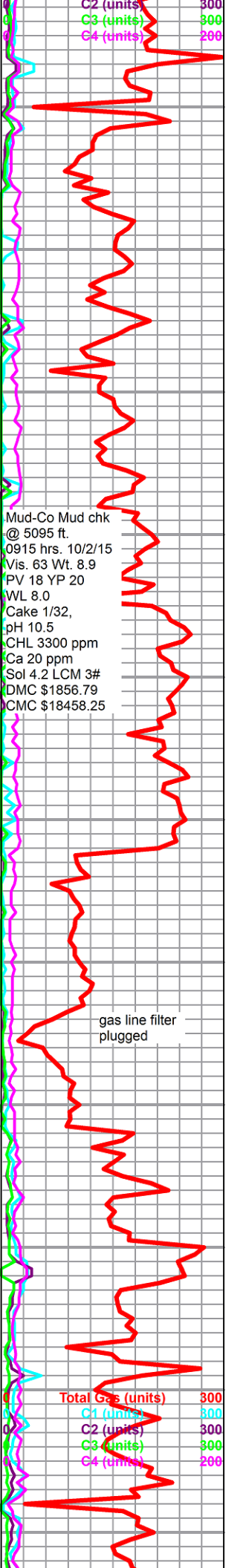
**St. Louis A 5146 -2351 (log 5146 -2351)**  
 limestone, white to cream and light gray with some pale green tinting, oolitic and bioclastic (with other fossil clasts), mature to flattened, fine to medium oolites, chalky, glauconitic in part, some fair inter-oolite and inter-clast porosity, spotty brown stain, slight show free oil in tray, fair show on break, fair odor in wet cup, slow milky white streaming cut with halo, abundant chalk

limestone, white to cream, mixed oolitic and fossiliferous, very chalky, flood chert, smokey gray to white, mostly opaque, small brown speckles (iron inclusions?), sharp, fresh, abundant chalk, no shows

limestone, cream to white, mature oolitic, fairly uniform medium oolites, friable with fair framework, poor to good inter-oolite porosity, secondary calcite between oolites, brown inter-oolite stain, strong odor, heavy streaming oil sheen in tray, few oil droplets with some gas bubbles between oolites, poor fluorescence, excellent bright white/blue cut

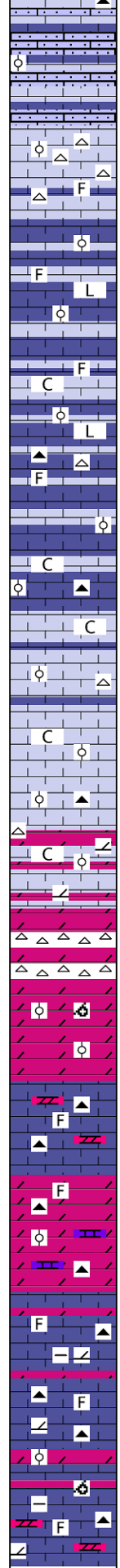
limestone, light gray, mixed sandy oolitic, chalky in part, glauconitic in part, with limestone, cryptocrystalline, lithographic to fossiliferous to sandy, dense, scattered gray fossiliferous cherts, poor fluorescence, no shows

**DST #5: 5141-5163', 5-90-60-150. Weak blow first open. BOB instantaneously on second open. Recovered 1405' GIP, 5' MCFO (75% frothy oil, 25% mud), 60' gassy SI.MCO (8% gas, 83% oil, 9% mud). IHP 2388# -- IFP'S 26-33# -- ISIP 1451# -- FFP'S 30-50# -- FSIP 1432# -- FHP 2389#.**  
**BHT 1230**



**DST #6: 5175-5193, 5-90-90-180. Weak blow on both opens.**  
**Recovered 365' GIP, 15' Clean oil, 5' SI.OCM**  
**(8% oil, 92% mud), 60' gassy, HO&WCM (8% gas, 24% oil, 28% water, 40% mud). IHP 2538# -- IFP'S 8-11# --ISIP 1283# -- FFP'S 13-14# -- FSIP 1271# -- FHP 2538#.**

5240  
5260  
5280  
5300  
5320  
5340  
5360  
5380  
5400  
5420



limestone, light gray, cream & white, flattened oolitic to fossiliferous, chalky, no visible porosity, no fluorescence, no odor, no show, flood chert, light gray to white, opaque fossiliferous, sharp, fresh, no shows

limestone, gray to light gray, mostly cryptocrystalline, oolitic to fossiliferous to lithographic, dense, some dense cryptocrystalline arenaceous, some chalk, no shows

as above with influx white and gray fossiliferous cherts

limestone and chert a.a.

limestone, gray to cream, oolitic, flattened with some scattered rounded oolites, chalky, grainy, poor visible porosity, some arenaceous oolitic to lithographic, abundant chalk, abundant chert, variable gray, sharp, fresh

limestone, a.a. grainier, chalkier, dolomitic in part, chert a.a.

**Salem 5339 -2544 (log 5340 -2545)**

dolomite, cream, microcrystalline, sub-sucrosic, with chalky lithographic and some arenaceous, soft to medium dense, trace pyritic, with appx 30-40% chert, variable gray to white, fossiliferous, mottled to speckled, fresh, sharp, no shows, poor fluorescence

grades to dolomite, cream to tan, recrystallized oolitic to oomoldic, some fair moldic and vuggy porosity, with: dolomite a.a. , abundant chalk, chert drops out, no shows, some scattered light fluorescence

limestone, dolomitic in part, gray to white and cream, microcrystalline, fossiliferous to lithographic to arenaceous, dense, some white to tan and gray microcrystalline dolomite, abundant white to gray translucent and vitreous cherts, no shows

dolomite, brown to tan, microcrystalline, sub-sucrosic, recrystallized fossiliferous to oolitic, some vuggy, some brown cryptocrystalline lithographic limestone, mixed cherts, mostly smokey gray fossiliferous, no shows

limestones, mixed gray to tan and cream, micro-cryptocrystalline, chalky to argillaceous and arenaceous, fossiliferous to oolitic, with cream dolomitic limestone, microcrystalline, chalky to dense, fossiliferous, scattered dolomite, tan to gray sucrosic to sub-lithographic, abundant chert, frosted to smokey gray, fossiliferous, no shows

mixed limestone and chert as above, with slight increase sucrosic dolomites, influx brown sucrosic and recrystallized oomoldic/oolitic dolomite, no shows

**Rotary TD @ 5425 ft 1205 hrs 10/5/15**  
**Gemini Wireline TD 5426 ft**  
**Complete Logging Operations 2000 hrs 10/5/15**

0 GIP (min/ft) 10  
 0 Gamma (API) 150  
 6 Caliper 16

Total Gas (units) 300  
 C1 (units) 300  
 C2 (units) 300  
 C3 (units) 300  
 C4 (units) 200