

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1243631
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1243631

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	YOST 1-6(NW)
Doc ID	1243631

All Electric Logs Run

DIL
MEL
CNL/CDL
BHCS

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	YOST 1-6(NW)
Doc ID	1243631

Tops

Name	Top	Datum
STOTLER	3475	-693
TARKIO	3548	-766
LANSING	4212	-1430
PAWNEE	4790	-2008
CHEROKEE	4833	-2051
MORROW SH	4989	-2207
ST GEN	5050	-2268
ST LOUIS LWR B	5179	-2397



Cement Report

Customer	Falcon Exploration		Lease No.			Date	11/15/14		
Lease	Vost		Well #	1-6		Service Receipt	1417-06231A		
Casing	8 5/8 24#	Depth	1840		County	Gray		State	KS
Job Type	Surface		Formation	J		Legal Description			

Pipe Data				Perforating Data				Cement Data	
Casing size	8 5/8 24#	Tubing Size		Shots/Ft				Lead	4605 KACON @ 11.4
Depth	1840	Depth		From		To		2.95	18.10
Volume	114.26	Volume		From		To		Tail in	1305 KACON @ 14.8
Max Press	2000 psi	Max Press		From		To		1.34	6.53
Well Connection	PC	Annulus Vol.		From		To			
Plug Depth	1796.63	Packer Depth		From		To			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
15:30					On loc
20:30					Hook up & Circulate
20:40					Safety Meeting
21:00					Mix Stop loss
21:15			20 BBL	5 BPM	Mix Stop loss
21:20					Hook up to Rig/Pump M.d
23:15					Mix stop loss
23:25			20 BBL	4 BPM	Pump stop loss
23:30	200		24 BBL	4	Start cementing lead
00:36	260			3	Switch to tail
00:51	300		114	4	Shut down Drop plug / Start Disp
1:20	300			1	Slow rate
1:30	640				Landed Plug
	1200				Pressure d up
					Released back
					Float held
					Job Complete
					No cement to surface

Service Units	86573	38117/19919	30463/19566	30464/37724	
Driver Names	Tommy Marcellos	Daniel Beck	Charles Skelton	Javier Olguin	

Chuck Customer Representative
 Terry Bennett Station Manager
 Tommy Marcellos Cementer



Cement Report

Customer	Falcon Exploration	Lease No.		Date	11/16/14
Lease	Yost	Well #	1-6	Service Receipt	1717-0623C
Casing	8 5/8 24#	Depth		County	Gray
Job Type	Surface	Formation		State	KS
Legal Description					

Pipe Data		Perforating Data		Cement Data	
Casing size	8 5/8	Tubing Size		Lead 3005 & Accu Blend	
Depth		Depth		11.9	
Volume		From	670	To	
Max Press		From		To	2.95 18.10
Well Connection	Swage	Annulus Vol.		From	To
Plug Depth		Packer Depth		From	To
					Tail in 150 SK Perm. @ 14.8
					1.34 6.32

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
18:00					Hookup & Circ. Mud through Perfs
21:00					Cement on loc.
21:10					Spot in + Hookup
21:52	360		157 BBL	4	Start cementing lead
22:00			47 BBL		Start Tail
22:25					Shut down Washup
	200			1	Start Disp.
23:00					Shut down
					Shut in Valve on Swage
					Jobs Complete
					Cement Circulated to Surface

Service Units	86543	38114/19919	33025/19824	30464/34424
Driver Names	Jerry M	Daniel Beck	Abel Oliveira	Rojilio

Chuck
Customer Representative

Jerry Benoit
Station Manager

Tommy Mandel
Cementer



Cement Report

Customer Falcon Exploration		Lease No.		Date 11-26-14		
Lease Yost		Well # Me		Service Receipt 05088		
Casing 5 1/2" 15.5#	Depth 5390'	County Gray		State KS		
Job Type 242-5 1/2" Production		Formation		Legal Description 6-28-29		
Pipe Data			Perforating Data		Cement Data	
Casing size 5 1/2" 15.5#	Tubing Size	Shots/Ft		Lead		
Depth 5390'	Depth	From	To	Tail in 360sk AA2		
Volume 127 bbl	Volume	From	To			
Max Press 2000#	Max Press	From	To			
Well Connection TD 5380'	Annulus Vol.	From	To			
Plug Depth ST-42	Packer Depth	From	To			
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log	
					on loc-site assessment	
11:30					spot trucks rig up	
					start csg & float equip	
					csg on botm, break circ	
					safety meeting - TSA	
					pressure test 2000#	
3:00			5	5	pump 5 bbl H ₂ O spacer	
3:02			12	5	pump 500 gal superflush #	
3:06			5	5	pump 5 bbl H ₂ O spacer	
3:10	200		70	6	mix & pump 360 sk AA2 @ 14.5#	
3:24					wash lines	
3:25			0	6	drop latch down plug disp csg	
3:43	1000		120	2	slow rate	
3:45	1500		128	0	land plug, float hold	
					plug rat & mouse holes w/ 50 sk	
			25		run 50 sk AA2 @ 12# ahead of #2.	
Service Units	31726	27462	20464-37724			
Driver Names	A. Rivera	E. Mulcahy	M. Rutledge			

Chuck
Customer Representative

J. Bennett
Station Manager

A. Rivera
Cementer

DIAMOND TESTING

General Information Report

General Information

Company Name FALCON EXPLOATION, INC.
Contact JASON MITCHELL
Well Name YOST #1-6 (NW)
Unique Well ID DST #1, STOTLER, 3440-3544
Surface Location SEC 6-28S-29W, GRAY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, STOTLER, 3440-3544
Well Fluid Type 02 Gas

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2014/11/19
Prepared By TIM VENTERS
Qualified By KEITH REAVIS

Start Test Date 2014/11/19
Final Test Date 2014/11/19

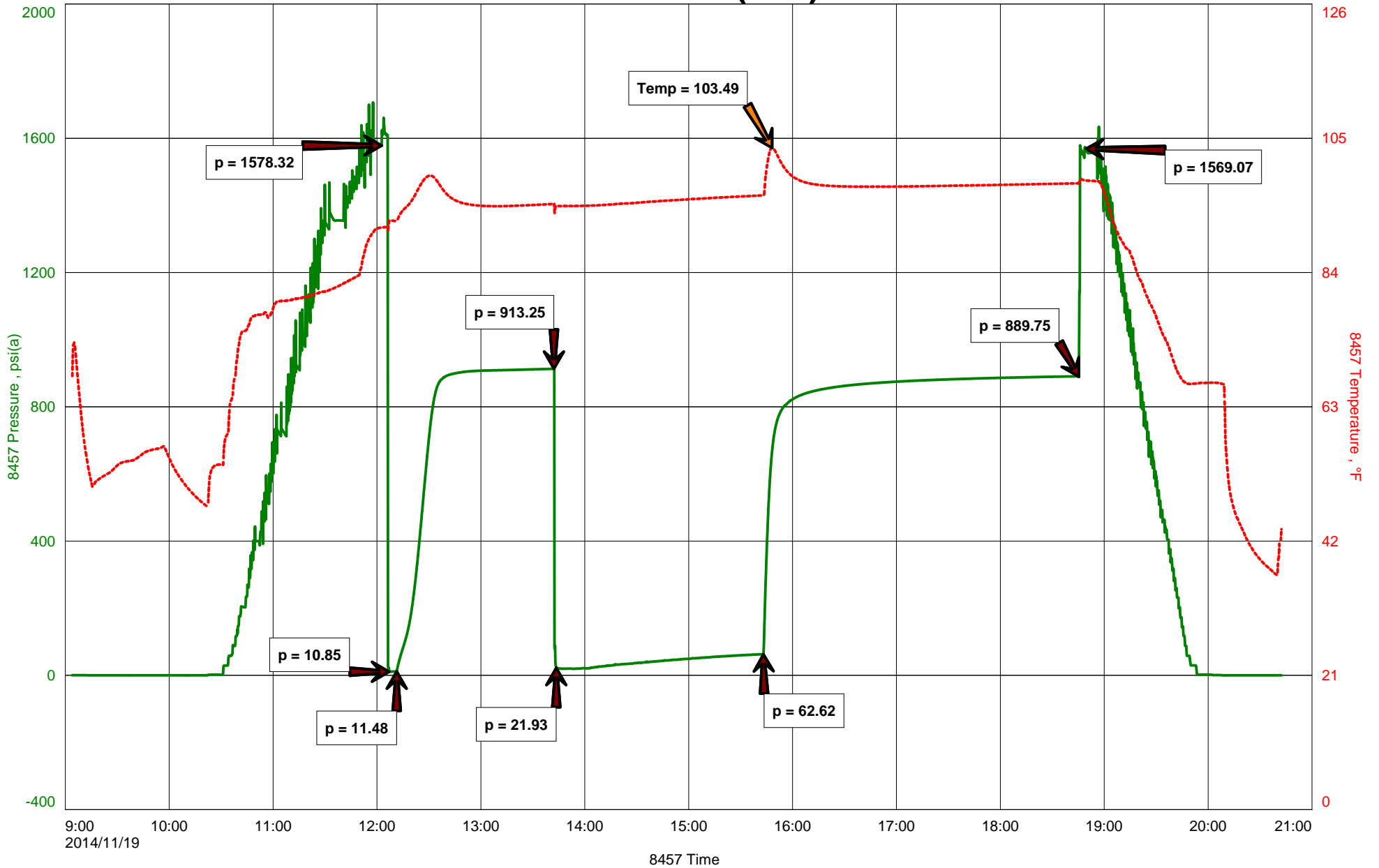
Start Test Time 09:04:00
Final Test Time 20:43:00

Test Recovery:

RECOVERED: 3345' GAS IN PIPE
65' MUD

TOOL SAMPLE: SPOTTY OIL, 100% MUD

YOST #1-6 (NW)





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: YOST1-6NWDST1

TIME ON: 09:04
TIME OFF: 20:43

Company FALCON EXPORATION, INC. Lease & Well No. YOST #1-6 (NW)
Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.
Elevation 2782 KB Formation STOTLER Effective Pay _____ Ft. Ticket No. T418
Date 11-19-14 Sec. 6 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 3440 ft. to 3544 ft. Total Depth 3544 ft.
Packer Depth 3435 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3440 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3421 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3541 ft. Recorder Number 11030 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 _____ ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 3,700 P.P.M. Drill Pipe Length 3407 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 41 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{63' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

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

Recovered 3345 ft. of GAS IN PIPE
Recovered 65 ft. of MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____	Price Job
_____	Other Charges
_____	Insurance
TOOL SAMPLE: <u>SPOTTY OIL, 100% MUD</u>	Total

Time Set Packer(s) 12:06 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 6:43 PM ^{A.M.}/_{P.M.} Maximum Temperature 103 deg.

Initial Hydrostatic Pressure..... (A) 1578 P.S.I.
Initial Flow Period..... Minutes 5 (B) 11 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period..... Minutes 90 (D) 913 P.S.I.
Final Flow Period..... Minutes 122 (E) 22 P.S.I. to (F) 63 P.S.I.
Final Closed In Period..... Minutes 180 (G) 890 P.S.I.
Final Hydrostatic Pressure..... (H) 1569 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 YOST #1-6 (NW)
Unique Well ID DST #2, TARKIO, 3540-3580
Surface Location SEC 6-28S-29W, GRAY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, TARKIO, 3540-3580
Well Fluid Type 02 Gas

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2014/11/20
Prepared By TIM VENTERS
Qualified By KEITH REAVIS

Start Test Date 2014/11/20
Final Test Date 2014/11/20

Start Test Time 03:29:00
Final Test Time 13:11:00

Test Recovery:

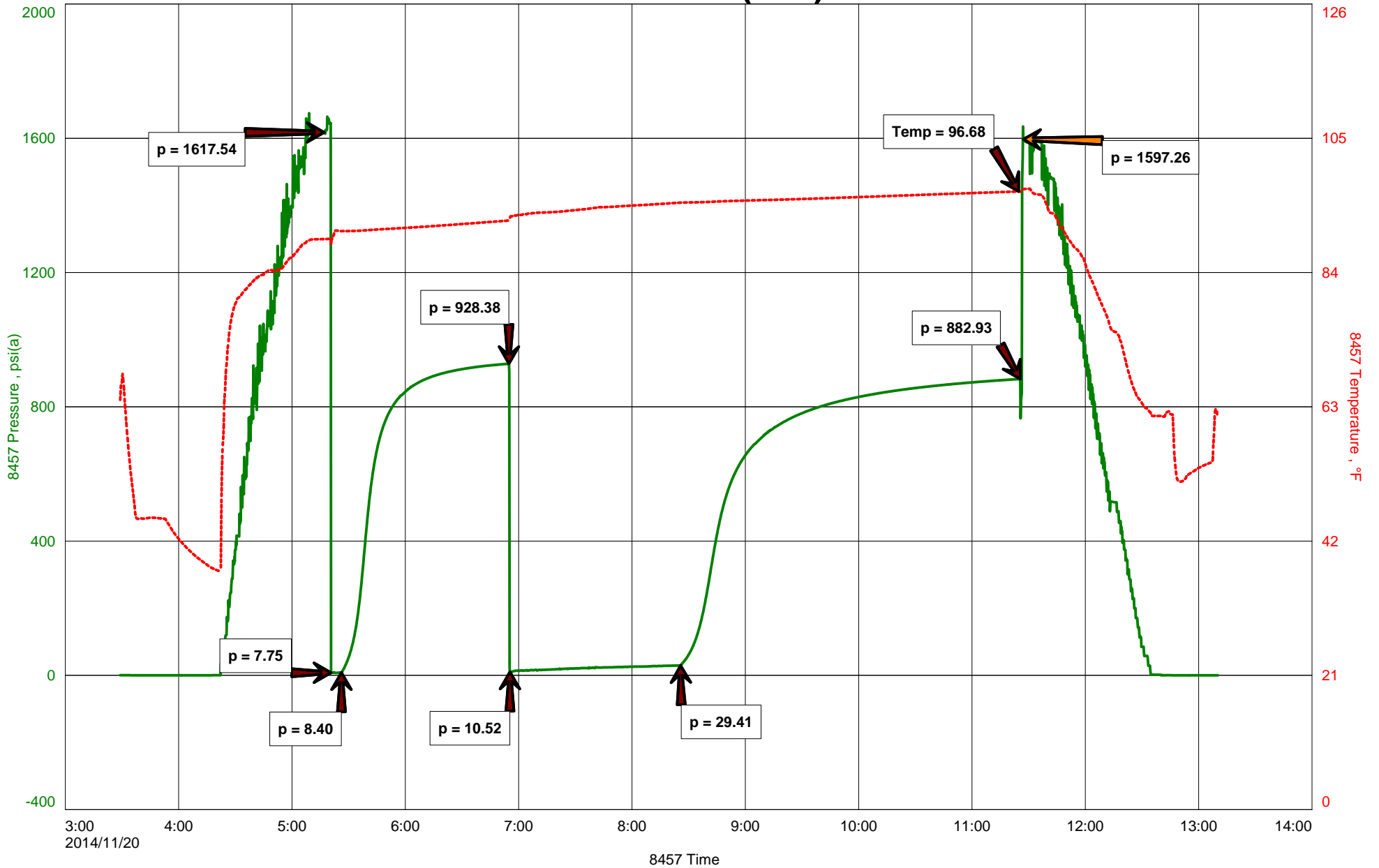
RECOVERED: 55' MUD

TOOL SAMPLE 100% MUD

FALCON EXPLORATION, INC.
DST #2, TARKIO, 3540-3580
Start Test Date: 2014/11/20
Final Test Date: 2014/11/20

YOST #1-6 (NW)
Formation: DST #2, TARKIO, 3540-3580
Pool: WILDCAT
Job Number: T419

YOST #1-6 (NW)





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: YOST1-6NWDST2

TIME ON: 03:29
TIME OFF: 13:11

Company FALCON EXPORATION, INC. Lease & Well No. YOST #1-6 (NW)
Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.
Elevation 2782 KB Formation TARKIO Effective Pay _____ Ft. Ticket No. T419
Date 11-20-14 Sec. 6 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 3540 ft. to 3580 ft. Total Depth 3580 ft.
Packer Depth 3535 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3540 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3521 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3577 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 2,300 P.P.M. Drill Pipe Length 3507 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: WEAK 1/4 INCH BLOW, BUILDING TO 3 1/2 INCHES. (NO BB)
2nd Open: GOOD 1 INCH BLOW, BUILDING, REACHING BOB 70 1/2 MIN. (NO BB)

Recovered 55 ft. of MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 100% MUD	Total

Time Set Packer(s) 5:20 AM A.M. P.M. Time Started Off Bottom 11:25 AM A.M. P.M. Maximum Temperature 97 deg.

Initial Hydrostatic Pressure..... (A) 1618 P.S.I.
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 8 P.S.I.
Initial Closed In Period..... Minutes 90 (D) 928 P.S.I.
Final Flow Period..... Minutes 90 (E) 11 P.S.I. to (F) 29 P.S.I.
Final Closed In Period..... Minutes 180 (G) 883 P.S.I.
Final Hydrostatic Pressure..... (H) 1597 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name	FALCON EXPLORATION, INC.	Representative	TIM VENTERS
Contact	JASON MITCHELL	Well Operator	FALCON EXPLORATION, INC.
Well Name	YOST #1-6 (NW)	Report Date	2014/11/24
Unique Well ID	DST #3, ST. LOUIS "A", 5128-5148	Prepared By	TIM VENTERS
Surface Location	SEC 6-28S-29W, GRAY CO. KS.	Qualified By	KEITH REAVIS
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #3, ST. LOUIS "A", 5128-5148		
Well Fluid Type	01 Oil		
Start Test Date	2014/11/23	Start Test Time	18:35:00
Final Test Date	2014/11/24	Final Test Time	07:23:00

Test Recovery:

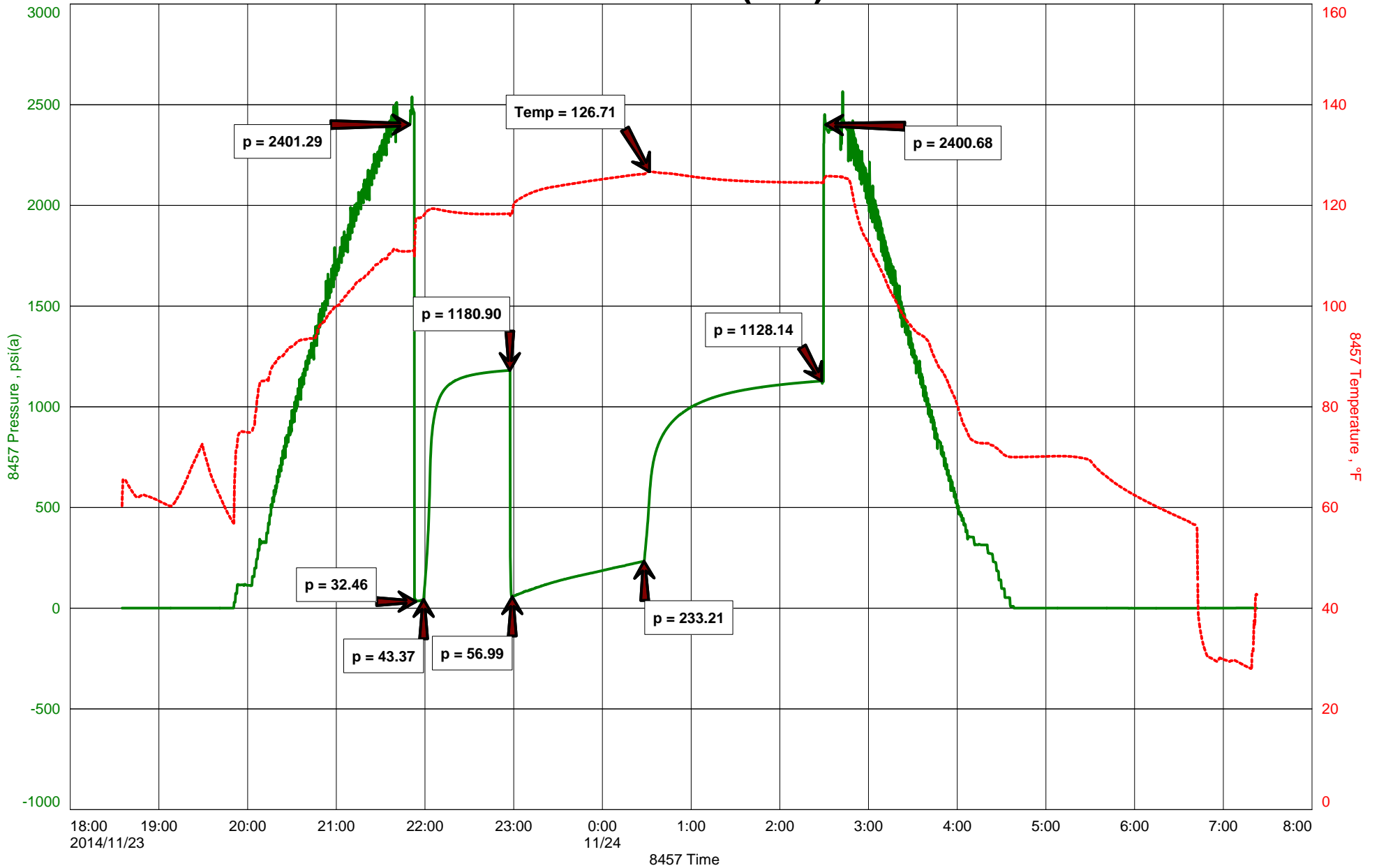
RECOVERED: 4400' GIP
695' G,SMCO, 17% GAS, 81% OIL, 2% MUD, GRAVITY: 25

TOOL SAMPLE: 85% OIL, 15% MUD

FALCON EXPLORATION, INC.
DST #3, ST. LOUIS "A", 5128-5148
Start Test Date: 2014/11/23
Final Test Date: 2014/11/24

YOST #1-6 (NW)
Formation: DST #3, ST. LOUIS "A", 5128-5148
Pool: WILDCAT
Job Number: T420

YOST #1-6 (NW)





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: YOST1-6NWDST3

TIME ON: 18:35 11-23-14
TIME OFF: 07:23 11-24-14

Company FALCON EXPORATION, INC. Lease & Well No. YOST #1-6 (NW)
Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.
Elevation 2782 KB Formation ST. LOUIS "A" Effective Pay _____ Ft. Ticket No. T420
Date 11-23-14 Sec. 6 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 5128 ft. to 5148 ft. Total Depth 5148 ft.
Packer Depth 5123 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 5128 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 5109 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 5145 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,800 P.P.M. Drill Pipe Length 5095 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: GOOD 2 INCH BLOW, BUILDING, REACHING BOB 1 MIN. (1" BB)
2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (BOB BB)

Recovered 4400 ft. of GIP
Recovered 695 ft. of G,SMCO, 17% GAS, 81% OIL, 29% MUD, GRAVITY: 25
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Remarks: <u>WE GOT GAS TO SURFACE 18 MIN. INTO FINAL FLOW PERIOD, BUT IT WAS TOO SMALL TO MEASURE.</u>	Other Charges
<u>TOOL SAMPLE: 85% OIL, 15% MUD</u>	Insurance
	Total

Time Set Packer(s) 9:52 PM A.M. P.M. Time Started Off Bottom 2:27 AM A.M. P.M. Maximum Temperature 127 deg.

Initial Hydrostatic Pressure..... (A) 2401 P.S.I.
Initial Flow Period..... Minutes 5 (B) 32 P.S.I. to (C) 43 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1181 P.S.I.
Final Flow Period..... Minutes 90 (E) 57 P.S.I. to (F) 233 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1128 P.S.I.
Final Hydrostatic Pressure..... (H) 2401 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name	FALCON EXPLORATION, INC.	Representative	TIM VENTERS
Contact	JASON MITCHELL	Well Operator	FALCON EXPLORATION, INC.
Well Name	YOST #1-6 (NW)	Report Date	2014/11/25
Unique Well ID	DST #4, ST. LOUIS "B", 5171-5193	Prepared By	TIM VENTERS
Surface Location	SEC 6-28S-29W, GRAY CO. KS.	Qualified By	KEITH REAVIS
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #4, ST. LOUIS "B", 5171-5193		
Well Fluid Type	01 Oil		
Start Test Date	2014/11/24	Start Test Time	18:41:00
Final Test Date	2014/11/25	Final Test Time	04:01:00

Test Recovery:

RECOVERED: 30' SO&WCM, 5% OIL, 7% WATER, 88% MUD

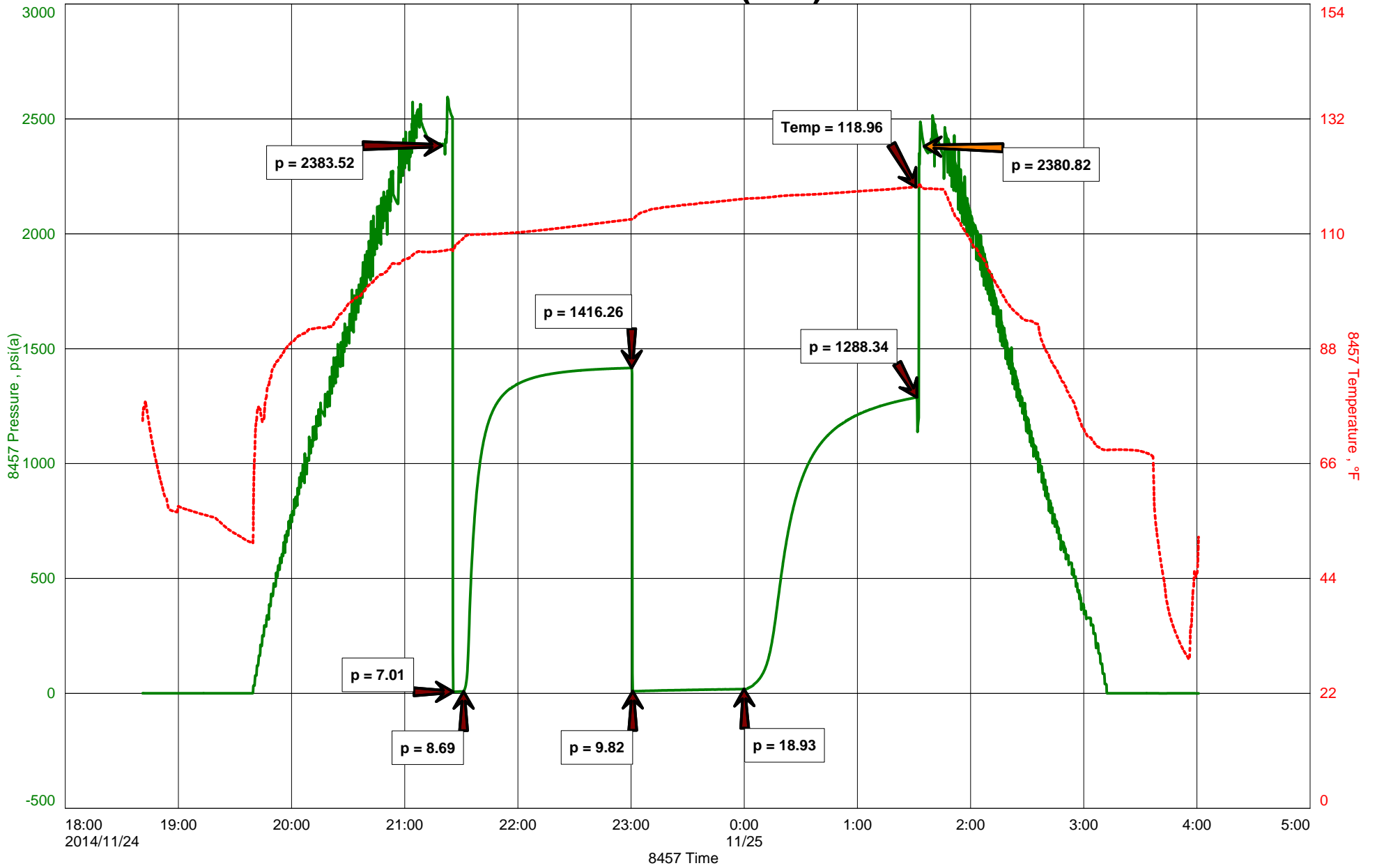
TOOL SAMPLE: 9% OIL, 34% WATER, 57% MUD

CHLORIDES: 18,000 ppm

PH: 7.0

RW: .41 @ 73 deg.

YOST #1-6 (NW)





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: YOST1-6NWDST4

TIME ON: 18:41 11-24-14
TIME OFF: 04:01 11-25-14

Company FALCON EXPORATION, INC. Lease & Well No. YOST #1-6 (NW)
Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.
Elevation 2782 KB Formation ST. LOUIS "B" Effective Pay _____ Ft. Ticket No. T421
Date 11-24-14 Sec. 6 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 5171 ft. to 5193 ft. Total Depth 5193 ft.
Packer Depth 5166 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 5171 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5152 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 5190 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,900 P.P.M. Drill Pipe Length 5138 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 THOUGHOUT PERIOD. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 1 INCH. (NO BB)

Recovered 30 ft. of SO&WCM, 5% OIL, 7% WATER, 88% MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	CHLORIDES: 18,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.0	Other Charges
Remarks: _____	RW: .41 @ 73 deg.	Insurance
TOOL SAMPLE: 9% OIL, 34% WATER, 57% MUD		Total

Time Set Packer(s) 9:25 PM A.M. P.M. Time Started Off Bottom 1:30 AM A.M. P.M. Maximum Temperature 119 deg.
Initial Hydrostatic Pressure..... (A) 2384 P.S.I.
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 9 P.S.I.
Initial Closed In Period..... Minutes 90 (D) 1416 P.S.I.
Final Flow Period..... Minutes 60 (E) 10 P.S.I. to (F) 19 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1238 P.S.I.
Final Hydrostatic Pressure..... (H) 2381 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.

OPERATOR

Company: Falcon Explortation, Inc.
 Address: 125 N. Market
 Suite 1252
 Wichita, KS 67202
 Contact Geologist: Brian Fisher
 Contact Phone Nbr: 316-262-1378
 Well Name: Yost #1-6 (NW)
 Location: Sec. 6 - T28S - R29W
 API: #15-069-20488-0000
 Pool:
 State: Kansas
 Field: Renegade SE
 Country: USA

Scale 1:240 Imperial

Well Name: Yost #1-6 (NW)
 Surface Location: Sec. 6 - T28S - R29W
 Bottom Location:
 API: #15-069-20488-0000
 License Number: 5316
 Spud Date: 11/13/2014 Time: 9:00 PM
 Region: Gray County
 Drilling Completed: 11/25/2014 Time: 12:30 PM
 Surface Coordinates: 1537' FNL & 660' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2772.00ft
 K.B. Elevation: 2782.00ft
 Logged Interval: 3270.00ft To: 5379.00ft
 Total Depth: 5379.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 1537' FNL
 E/W Co-ord: 660' 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 _Logan Walker

CONTRACTOR

Contractor: Val Energy
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 11/13/2014 Time: 9:00 PM
 TD Date: 11/25/2014 Time: 12:30 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2782.00ft Ground Elevation: 2772.00ft
 K.B. to Ground: 10.00ft

NOTES

Due to positive DST's in the Stotler and St. Louis limestone, 5 1/2" production casing was set and cemented to test the aforementioned zones through perforations and stimulation.

A Bloodhound gas detection system operated by Bluestem Environmental was employed on this well. ROP and gas data were imported into this log. Gamma ray and caliper curves were imported from the electrical log suite.

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 and Logan Walker

Falcon Exploration daily drilling report

DATE	LOG ANNOTATION	REMARKS
11/18/2014		Geologist Keith Reavis on location @ 1400 hrs, 2880 ft, drilling ahead Ft. Riley, joined by geologist Logan Walker, drilling, Cottonwood to Neva
11/19/2014	3544	drilling Foraker, Stotler, cfs Stotler, small gas kick, short trip, TOH for DST #1, conducting DST #1, Complete & successful test, TOH w/tool, TTH w/bit, resume drilling
11/20/2014	3580	resume drilling the Tarkio, cfs Tarkio, gas kick, TOH w/bit for DST #2, conducting DST #2, complete & successful test, TOH w/tool, TTH w/bit resume drilling
11/21/2014	4300	drilling ahead
11/22/2014	5008	drilling ahead the Cherokee, bit trip @5008', TOH w/ bit, got stuck 0700hrs added oil to hole to get unstuck, back to drilling 2345hrs, drilling ahead
11/23/2014	5070	drilling ahead, Morrow, Mississippian, St. Louis & porosity has show that warrants test, TOH w/bit, broke drive chain on drawworks, repairs, TTH w/tool tight going in
11/24/2014	5148	conduct and complete DST #3, successful test, TTH w/bit, drill St. Louis B, show warrants test, conduct DST #4
11/25/2014	5193	complete DST #4, successful test, out with tools, in w/bit, rathole ahead for TD, TD @ 1230 hrs, 5379 ft. conduct logging operations,
11/26/2014	5379	complete logging operations, geologist off location 0100 hrs

Falcon Exploration, Inc well comparison sheet

DRILLING WELL					COMPARISON WELL			
Yost #1-6 (NW) 1537' FNL & 660' FWL Sec 6-T28S-R29W					Carl Love #1-1 660' FNL & 660' FWL Sec 11-T28S-R30W			
2782 KB					2791 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Chase	2625	157	2626	156	2637	154	3	2
Winfield	2704	78	2708	74	2714	77	1	-3
Towanda	2753	29	2754	28	2767	24	5	4
Fort Riley	2798	-16	2806	-24	2814	-23	7	-1
Cottonwood	3062	-280	3063	-281	3071	-280	0	-1
Neva	3134	-352	3127	-345	3142	-351	-1	6
Foraker	3236	-454	3236	-454	3249	-458	4	4
Stotler	3476	-694	3476	-694	3488	-697	3	3
Tarkio	3550	-768	3548	-766	3561	-770	2	4
Topeka	3750	-968	3750	-968	3759	-968	0	0
LeCompton	3926	-1144	3930	-1148	3942	-1151	7	3
Heebner	4118	-1336	4120	-1338	4130	-1339	3	1

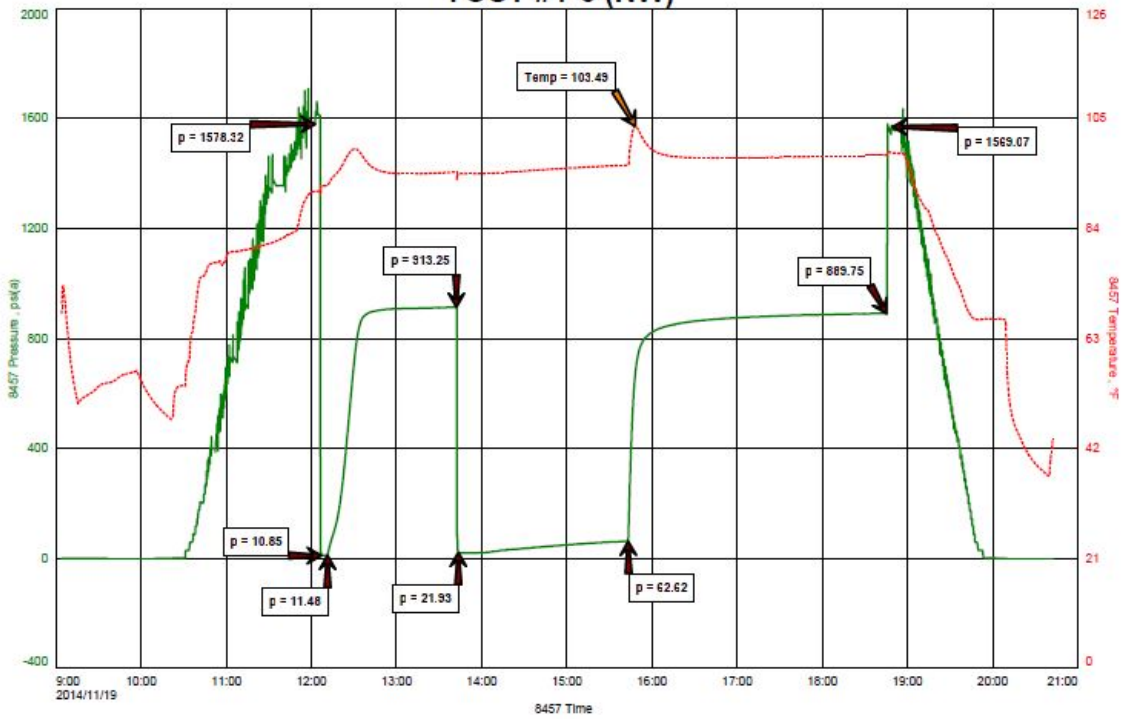
Toronto	4137	-1355	4137	-1355	4148	-1357	2	2
Douglas	4160	-1378	4160	-1378	4170	-1379	1	1
Lansing	4214	-1432	4213	-1431	4224	-1433	1	2
Stark	4539	-1757	4541	-1759	4555	-1764	7	5
Base KC	4680	-1898	4684	-1902	4696	-1905	7	3
Marmaton	4700	-1918	4702	-1920	4716	-1925	7	5
Pawnee	4779	-1997	4794	-2012	4795	-2004	7	-8
Cherokee	4831	-2049	4833	-2051	4842	-2051	2	0
Morrow Shale	5010	-2228	5010	-2228	5025	-2234	6	6
Miss St. Gen	5046	-2264	5040	-2258	5070	-2279	15	21
St. Louis A	5133	-2351	5137	-2355	5159	-2368	17	13
St. Louis B	5175	-2393	5178	-2396	5201	-2410	17	14
Total Depth	5379	-2597	5384	-2602	5300	-2509	-88	-93

DST #1

FALCON EXPLORATION, INC.
DST #1, STOTLER, 3440-3544
Start Test Date: 2014/11/19
Final Test Date: 2014/11/19

YOST #1-6 (NW)
Formation: DST #1, STOTLER, 3440-3544
Pool: WILDCAT
Job Number: T418

YOST #1-6 (NW)

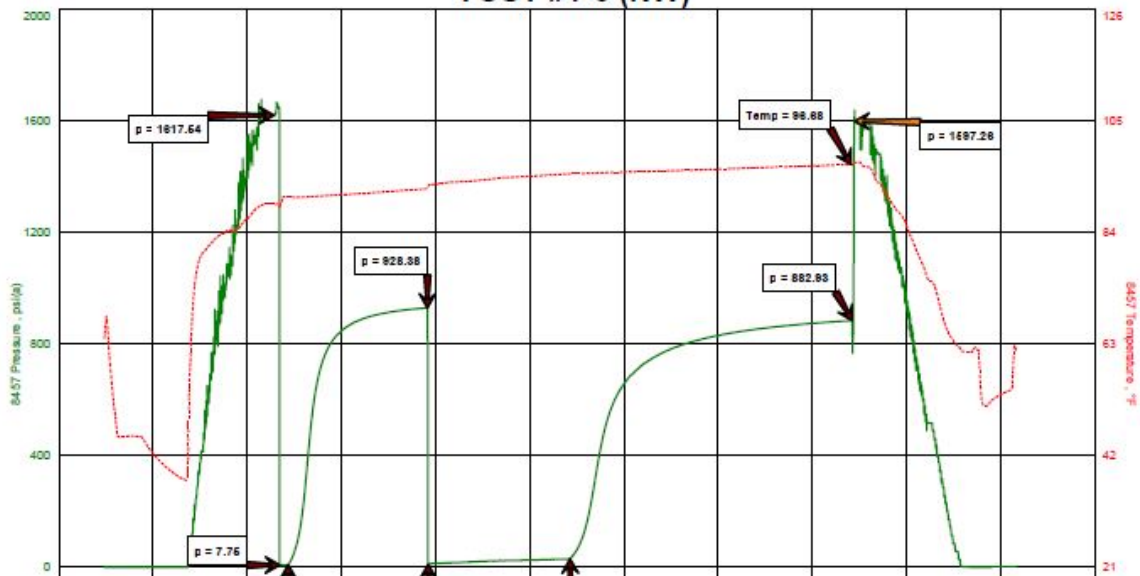


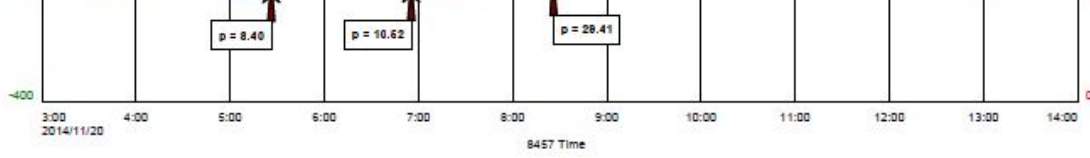
DST #2

FALCON EXPLORATION, INC.
DST #2, TARKIO, 3540-3580
Start Test Date: 2014/11/20
Final Test Date: 2014/11/20

YOST #1-6 (NW)
Formation: DST #2, TARKIO, 3540-3580
Pool: WILDCAT
Job Number: T419

YOST #1-6 (NW)



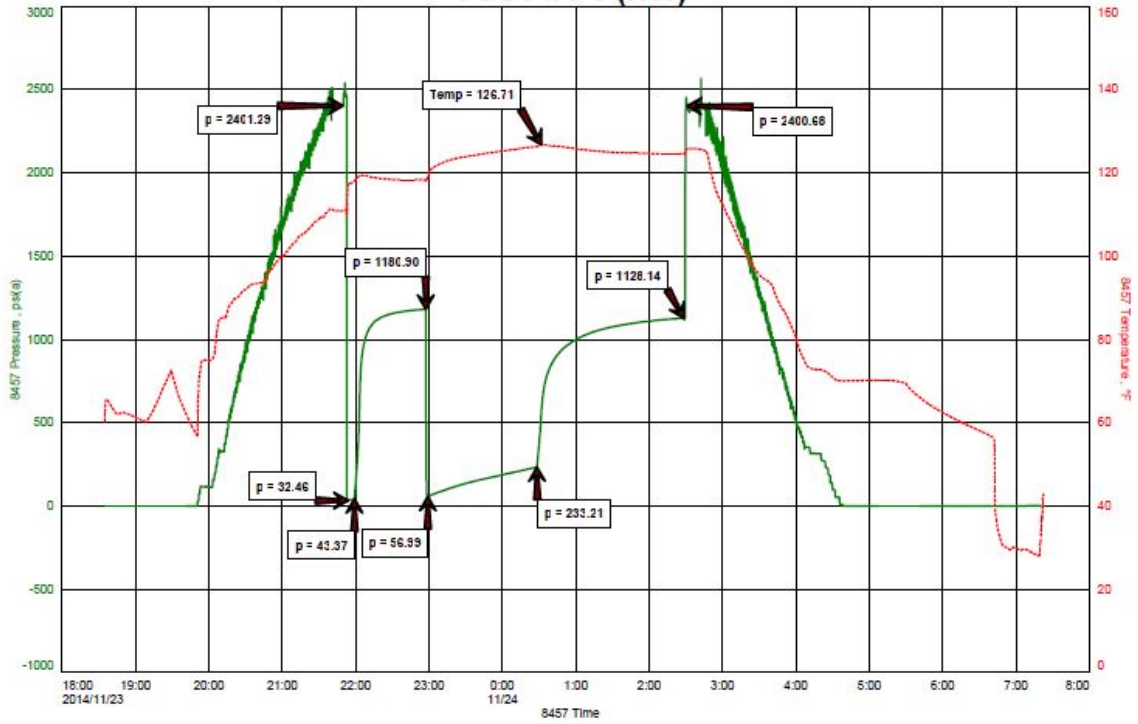


DST #3

FALCON EXPLORATION, INC.
 DST #3, ST. LOUIS "A", 5128-5148
 Start Test Date: 2014/11/23
 Final Test Date: 2014/11/24

YOST #1-6 (NW)
 Formation: DST #3, ST. LOUIS "A", 5128-5148
 Pool: WILDCAT
 Job Number: T420

YOST #1-6 (NW)

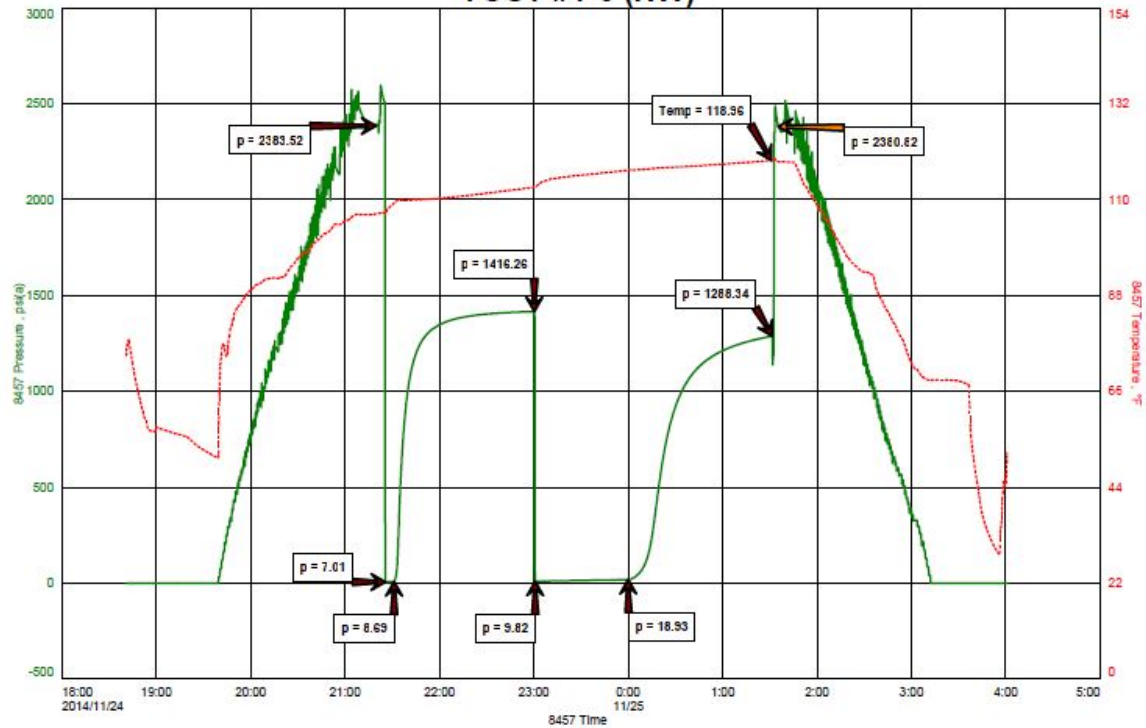


DST #4

FALCON EXPLORATION, INC.
 DST #4, ST. LOUIS "B", 5171-5193
 Start Test Date: 2014/11/24
 Final Test Date: 2014/11/25

YOST #1-6 (NW)
 Formation: DST #4, ST. LOUIS "B", 5171-5193
 Pool: WILDCAT
 Job Number: T421

YOST #1-6 (NW)



DIAMOND TESTING
 P. O. Box 157
 HOISINGTON, KANSAS 67544

GAS VOLUME REPORT

Company FALCON EXPLORATION, INC. Lease & Well No. YOST #1-6 (NW)
 Date 11-19-14 Sec. 5 Twp. 28 S Rge. 29 W Location _____ County GRAY State KS
 Drilling Contractor VAL ENERGY, INC. RIG #2 Formation STOTLER DST No. 1
 Remarks: GAS TO SURFACE 10 MIN. INTO FINAL FLOW PERIOD.

INITIAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
20	1/4 in.	3 in.	15,700
30	1/4 in.	5 in.	20,700
40	1/4 in.	9 in.	29,900
50	1/4 in.	10 in.	30,800
60	1/4 in.	14 in.	37,600
70	1/4 in.	17 in.	42,400
80	1/4 in.	21 in.	48,700
90	1/4 in.	24 in.	53,200
100	1/4 in.	26 in.	56,300
110	1/4 in.	28 in.	59,000
*120	1/4	30	61,900

ROCK TYPES

sdy lmst
 Lmst fw7>
 shale, gry
 shale, red
 Lmst fw<7
 shale, grn
 Carbon Sh

ACCESSORIES

MINERAL
 - Argillaceous
 ▲ Chert, dark
 ∩ Glauconite
 P Pyrite
 △ Chert White

FOSSIL
 ∩ Bioclastic or Fragmental
 F Fossils < 20%
 ⊕ Oolite
 ⚡ Pellets
 ⚡ Oomoldic

STRINGER
 Dolomite

TEXTURE
 C Chalky
 CX Cryptocrystalline
 L Lithogr

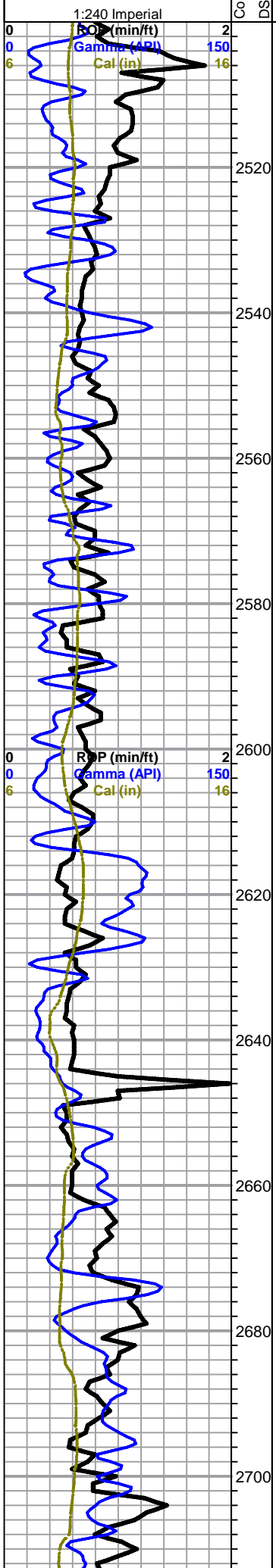
OTHER SYMBOLS

MISC
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

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

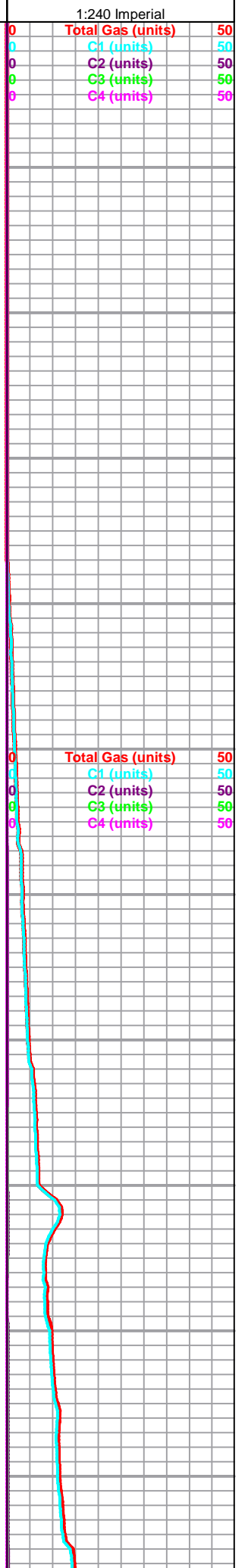
Curve Track #1				TG, C1 - C5			
ROP (min/ft)		Depth Intervals DST	Lithology	Oil Show	Geological Descriptions	Total Gas (units)	
Gamma (API)						C1 (units)	
Cal (in)						C2 (units)	
						C3 (units)	
						C4 (units)	



Falcon Exploration, Inc.
Yost #1-6 NW
1537' FNL & 660' FEL
Sec. 6 - T28S - R29W
Elevation 2772' KB
Surface Pipe 8 5/8" set @ 1842' KB

Chase Group 2625 +157

Winfield 2704 +78



2720
2740
2760
2780
2800
2820
2840
2860
2880
2900
2920

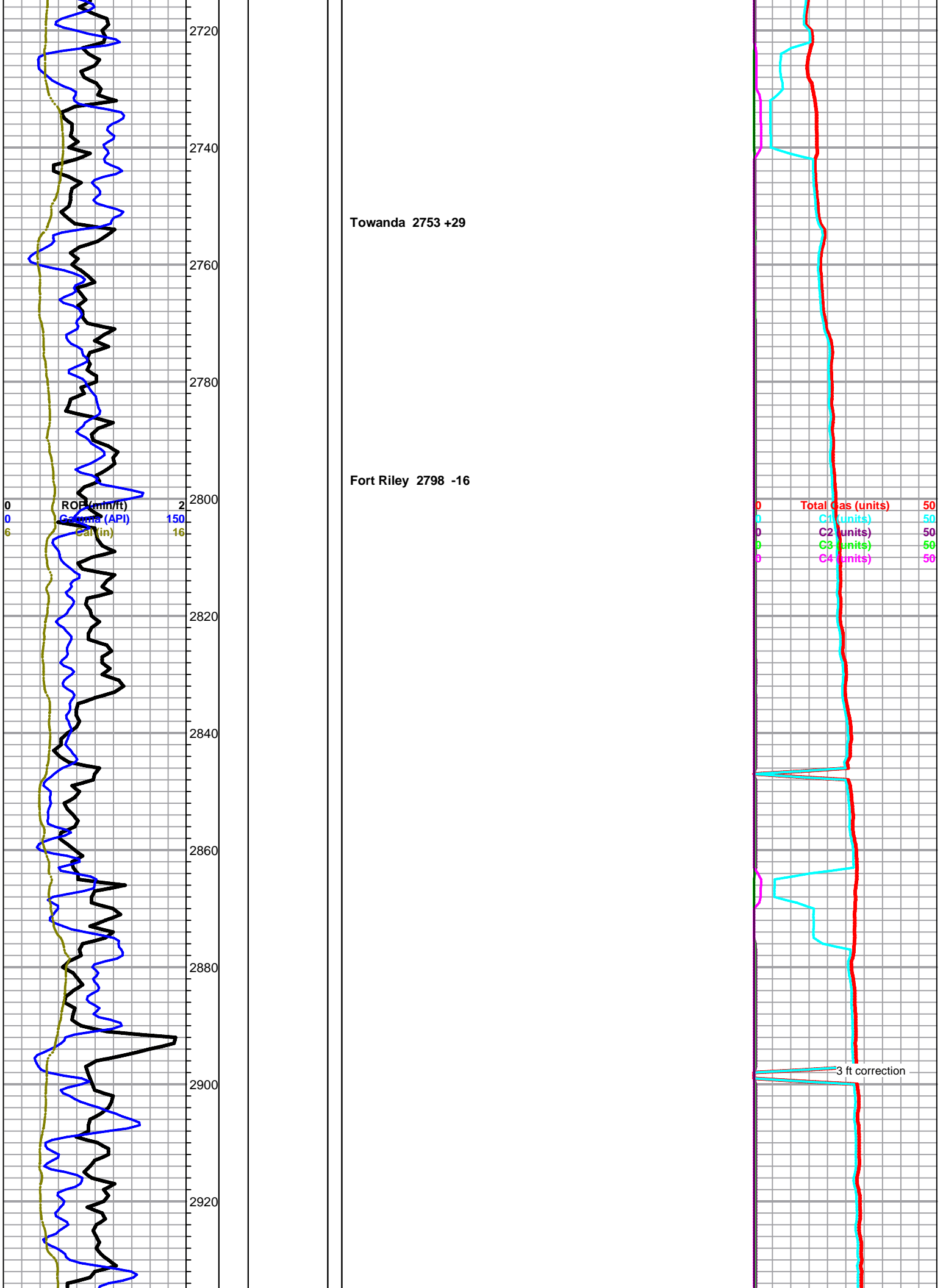
Towanda 2753 +29

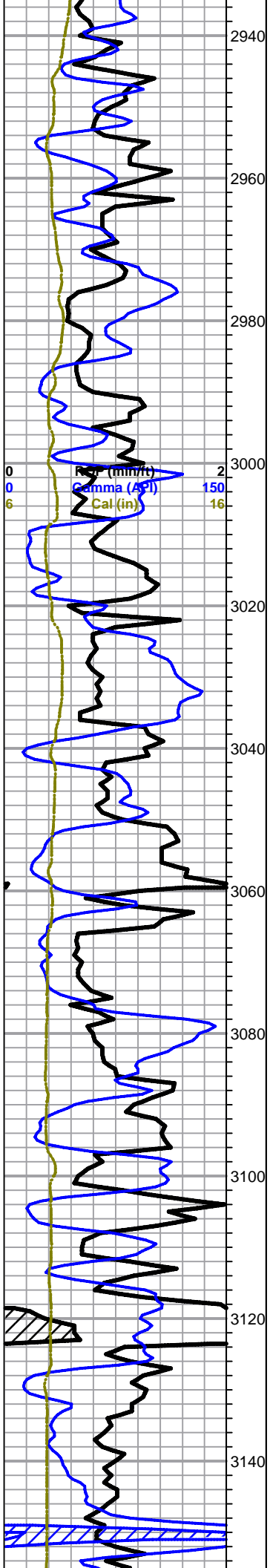
Fort Riley 2798 -16

0 ROF (min/ft) 2
0 Gamma (API) 150
6 Cal (in) 16

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

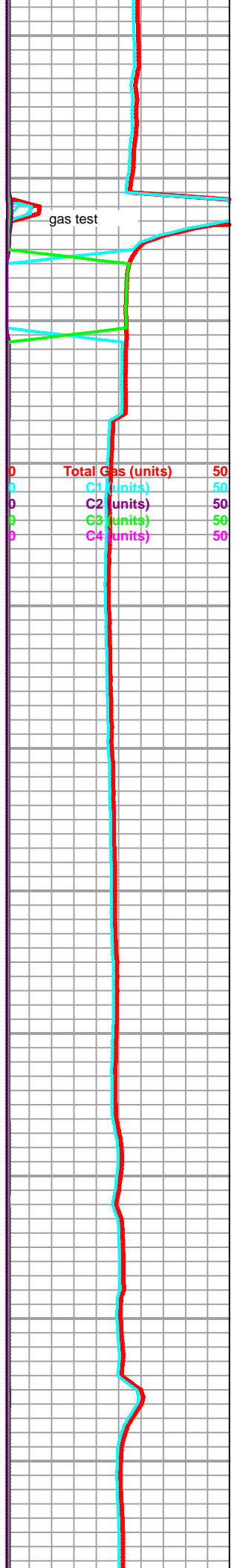
3 ft correction

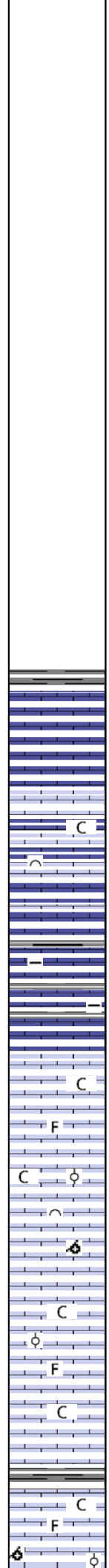
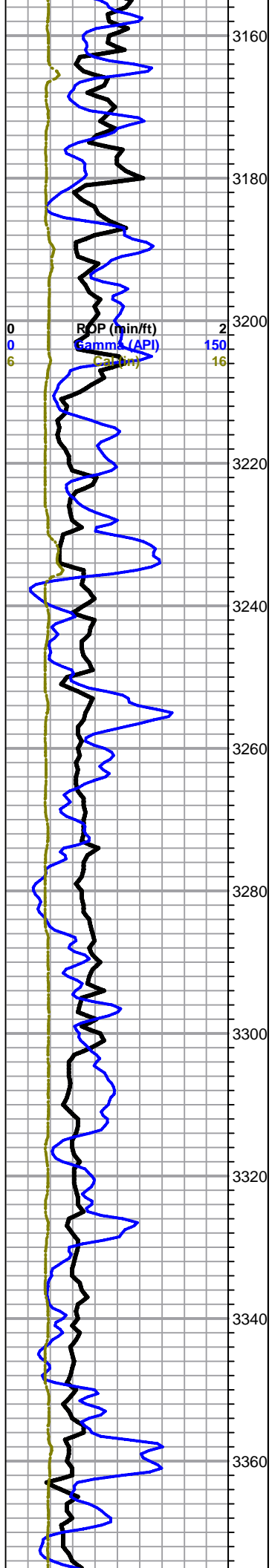




Cottonwood 3062 -280

Neva 3134 -352





Foraker 3236 -454

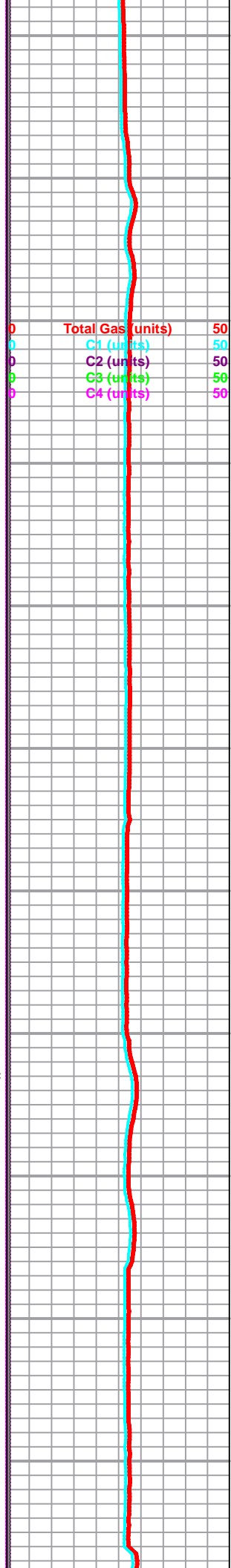
20 ft wet and dry samples were ordered at 3200', crew did not start until 3270

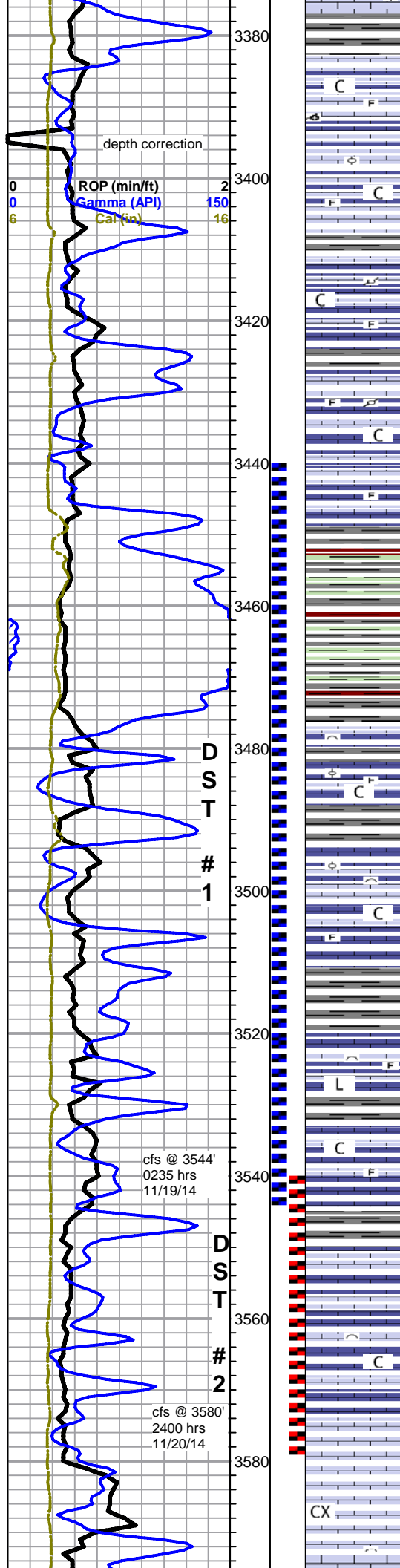
limestone, light gray to white, fossiliferous to bioclastic, poor visible porosity, abundant chalk, no shows

limestone to limey shale (beginning 3350 sample) dark gray to black, microcrystalline, dense to brittle, argillaceous/arenaceous, no visible porosity or shows

limestone, cream to light gray, microcrystalline, fossiliferous to bioclastic with scattered oolitic and oomoldic, some fair oomold porosity, pale yellow fluorescence, no shows, abundant chalk

as above, increasing chalk





limestone, cream to light gray, fossiliferous, some oomoldic and oolitic, influx limestone, cryptocrystalline, fossiliferous, fairly dense, abundant chalk, no shows, some pale fluorescence

limestone as above, with limestone, light gray to light brown mottled, fossiliferous, some slightly pelletal, chalky, no shows

as above

starting in 3500 sample, influx shales, soft mushy light green to gray shale, with brick red, grayish/red wash in samples

Stotler 3476 -694

limestone, cream to gray, mixed bioclastic to fossiliferous, some pelletal, abundant chalk, poor visible porosity, some small pieces white micro-oolitic, chalky/friable, no shows, scattered fluorescence

as above

DST #1 3440-3544 ft - 5-90-120-180 - rec 65 ft mud, 1st flow BOB 2 min, 2nd flow BOB immed. gas flow @ 20 min 15,700 cfd, gas flow @ 120 min 61,900 cfd (see gas chart in headers) IFP 11-11#, FFP 22-63#, ISIP 913#, FSIP 890#, HSH 1578-1569#, BHT 103 deg F

limestones as above, with influx limestones, gray/brown mottled, chalky fossiliferous, soft with limestone: variable gray to cream, cryptocrystalline, fossiliferous to lithographic, dense, no shows

Tarkio 3550 -768

Limestone, white to light gray, bioclastic, fossiliferous, oolitic to oomoldic, white fossiliferous chert, chalky, soft, poor visible porosity, friable, some fluorescence, no shows

DST #2 3540-3580 ft. - 5-90-90-180, rec 50 ft mud, 1st flow 1/4" bldg to 3 1/2", 2nd flow 1" bldg to BOB 70 min, IFP 8-8#, FFP 11-29 #, ISIP 928#, FSIP 883#, HSH 1618-1597#, BHT 97 deg

Limestone, white to cream to light gray, cryptocrystalline, bioclastic, fossiliferous, sub oolitic, white chert, soft, surface etching, poor visible porosity, friable, some fluorescence, no shows

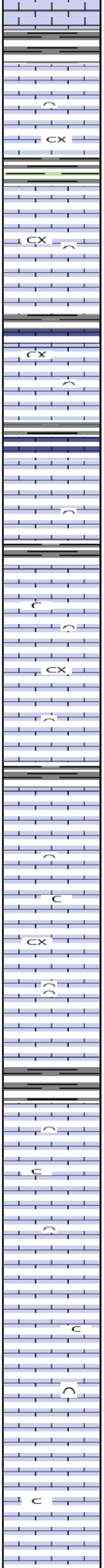
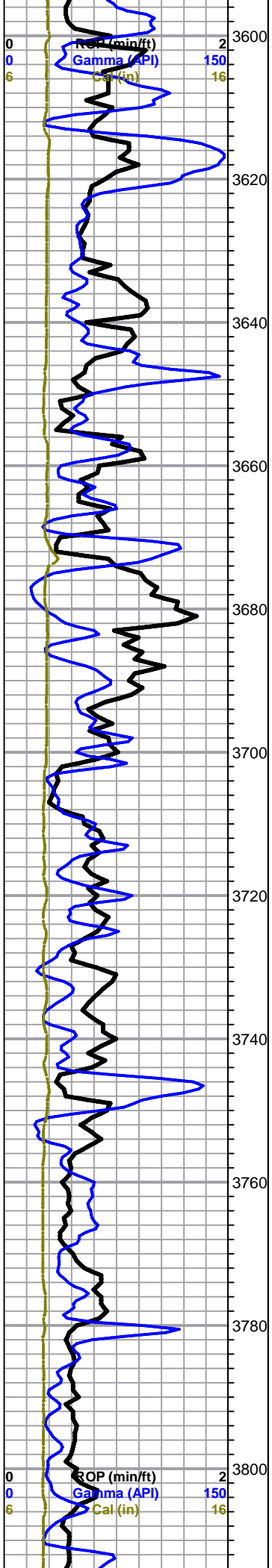
0	Total Gas (units)	50
0	C1 (units)	50
0	C2 (units)	50
0	C3 (units)	50
0	C4 (units)	50

Mud-Co Mud chk @ 3544 ft.
0955 hrs. 11/19/14
Vis. 50 Wt. 8.9
PV 15 YP 14
WL 8.0
Cake 1/32,
pH 10.5
CHL 3700 ppm
Ca 20 ppm
Sol 6.9 LCM 1#
DMC \$4473.95
CMC \$12494.15

-YOST1-6NWDST1all.pdf
-YOST1-6NWDST1Gast...

-YOST1-6NWDST2all.pdf

Mud-Co Mud chk @ 3580 ft.
1010 hrs. 11/20/14
Vis. 45 Wt. 8.8
PV 13 YP 14
WL 8.8
Cake 1/32,
pH 10.5
CHL 2300 ppm
Ca 20 ppm
Sol 3.5 LCM 1#
DMC \$1448.07



Limestone, same as above

Limestone, white, cryptocrystalline, bioclastic, fossiliferous, white chert, soft to dense, weahered, poor visible porosity, no shows

Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, chalky, soft to dense, weahered, surface etching, friable, no shows

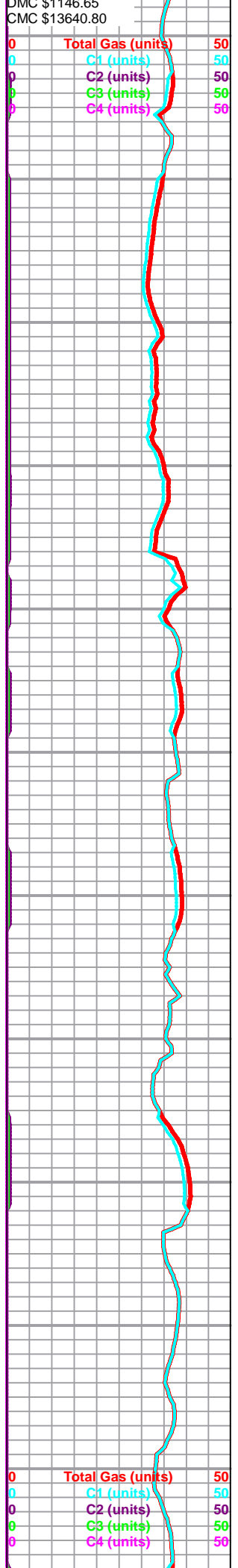
Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

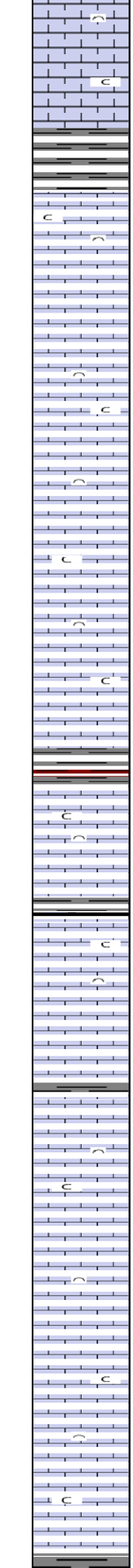
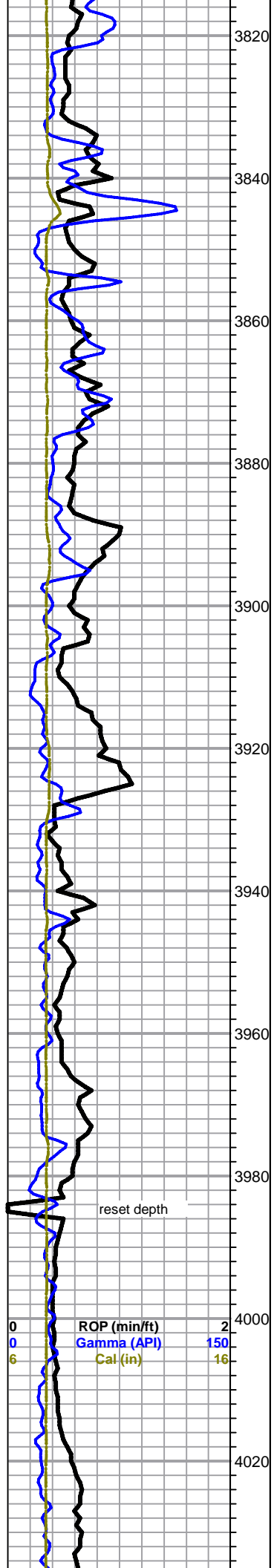
Topeka 3752 -968

Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, white fossiliferous chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

Limestone, same as above

Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, white chert. abundant chalky. soft to dense. weahered. surface etching.





friable, no shows

Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, pyritic, white chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

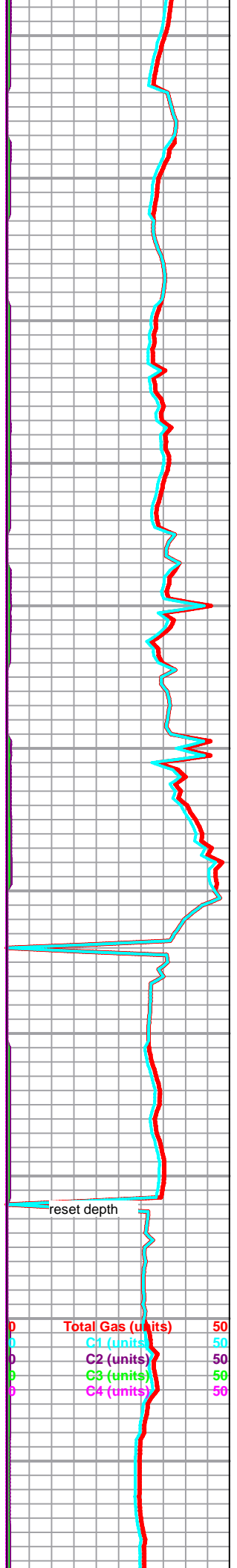
Limestone, same as above

LeCompton 3926 -1144

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white fossiliferous chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

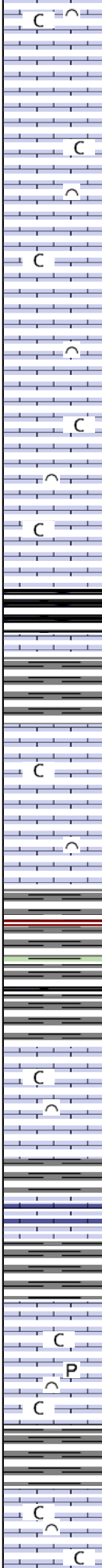
Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows



white chert, abundant chalky, soft to dense, weathers, surface etching, friable, no shows

4040
4060
4080
4100
4120
4140
4160
4180
4200
4220
4240



Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white chert, abundant chalky, soft to dense, weathers, surface etching, friable, no shows

Heebner 4118 -1336

Shale, Black carbonaceous

Toronto 4137 -1355

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, sharp white chert, abundant chalky, soft to dense, weathers, no shows

Douglas 4160 -1378

Shale, gray wash

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white chert, abundant chalky, soft to dense, weathers, surface etching, friable, no shows, spotty bright green mineral fluorescence

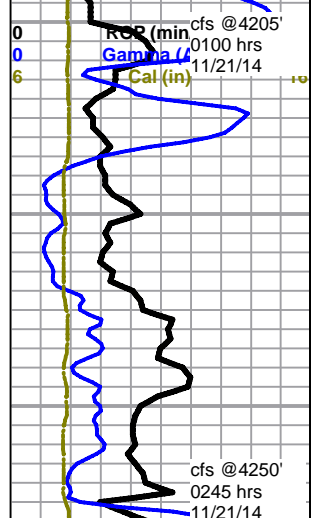
Brown Lime 4200 -1418

Limestone, cream to tan, microcrystalline, bioclastic, fossiliferous, weathered, soft to dense, no shows

Lansing 4214 -1432

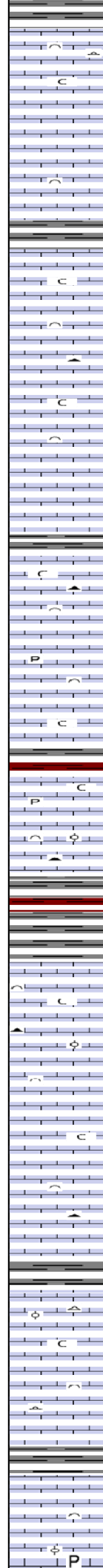
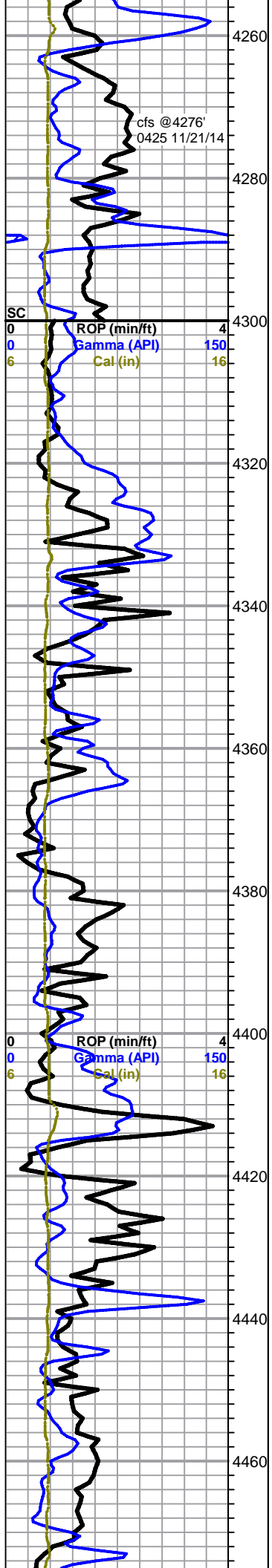
Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, pyritic, weathered, soft to dense, no shows, flooded with chalk, spotty fair green mineral fluorescence, trace white chert

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white to brown chert, weathered, flooded with chalk, soft to dense, no shows, spotty fair green mineral fluorescence, trace white chert



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

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



Limestone, white to cream to light gray, microcrystalline, sub bioclastic, fossiliferous, white chert, sub weathered, soft to dense, no fluorescence, no shows

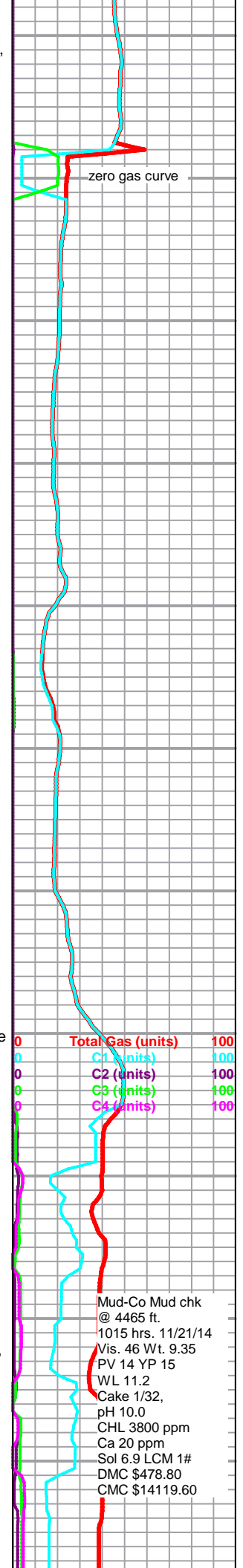
Limestone, white to cream to tan, bioclastic, fossiliferous, opaque to brown chert, weathered, sub chalky, soft to dense, sub friable, no fluorescence, no shows

Limestone, white to cream, microcrystalline, fossiliferous, pyritic, brown chert, friable, weathered, soft to dense, abundant chalky, spotty fair green mineral fluorescence, no shows

Limestone, white to cream, microcrystalline, fossiliferous, pyritic, brown chert, brown oolitic chert, sub oolitic, friable, weathered, poor visible porosity, soft to dense, chalky, spotty fair green mineral fluorescence, no shows

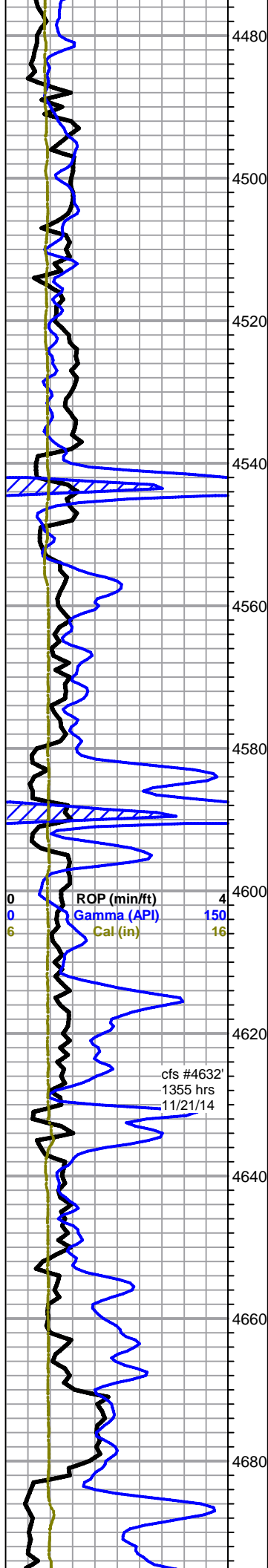
Limestone, white to cream, microcrystalline, fossiliferous, pyritic, opaque to gray fossiliferous chert, oolitic, friable, weathered, poor visible porosity, pin hole vugs, soft to dense, chalky, spotty green mineral fluorescence, no shows

Limestone, white, microcrystalline, fossiliferous, white fossiliferous chert, sub oolitic, friable, weathered, poor visible porosity, soft to dense, abundant chalky, spotty green mineral fluorescence, no shows



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

Mud-Co Mud chk @ 4465 ft. 1015 hrs. 11/21/14
 Vis. 46 Wt. 9.35
 PV 14 YP 15
 WL 11.2
 Cake 1/32,
 pH 10.0
 CHL 3800 ppm
 Ca 20 ppm
 Sol 6.9 LCM 1#
 DMC \$478.80
 CMC \$14119.60



Limestone, white to cream, microcrystalline, fossiliferous, pyritic, opaque to brown to gray fossiliferous chert, oolitic, friable, weathered, poor visible porosity, soft to dense, chalky, spotty green mineral fluorescence, no shows

Limestone, white to cream, microcrystalline, fossiliferous, pyritic, white to tan chert, oolitic, friable, weathered, poor visible porosity, soft to dense, abundant chalky, spotty green mineral fluorescence, no shows

Stark 4539 -1757

Shale, black carbonaceous

Limestone, white to cream, microcrystalline, fossiliferous, white fossiliferous chert, sub oolitic, friable, weathered, poor visible porosity, soft to dense, chalky, spotty green mineral fluorescence, no shows

Shale, black carbonaceous

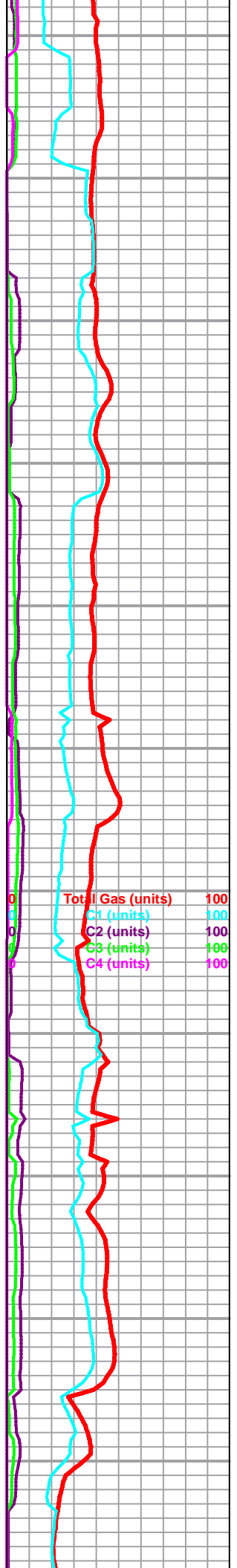
Limestone, white, bioclastic, fossiliferous, gray fossiliferous chert, weathered, soft, friable, no fluorescence no shows

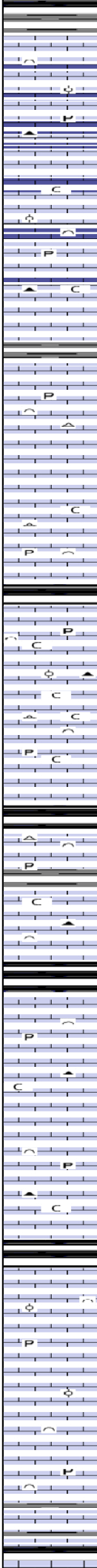
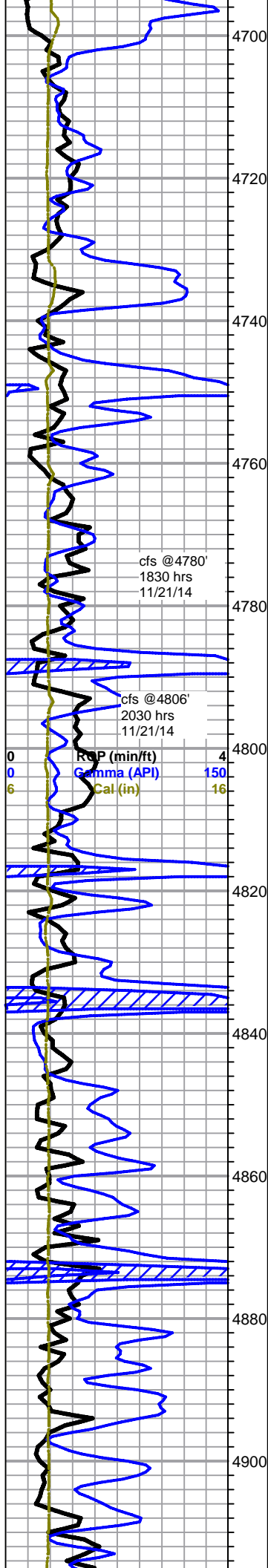
Limestone, white, bioclastic, fossiliferous, gray fossiliferous chert, glauconite, pyritic, weathered, soft, friable, no fluorescence no shows

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, pyritic, oolitic to oomoldic, white chert, sharp, soft to dense, spotty green mineral fluorescence, no shows

Base KC 4680 -1898

shale, gray wash, black carbonaceous, red, silty





Marmaton 4700 -1918

Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, oolitic, pyritic, brown chert, sharp, soft to dense, spotty green mineral fluorescence, no shows

Limestone, same as above, chalky

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, pyritic, white chert, sharp, soft to dense, spotty dull green mineral fluorescence, no shows

Shale, black carbonaceous

Pawnee 4779 -1997

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white to gray chert, brown oolitic chert, pyritic, sharp, abundant chalky, soft, friable, spotty bright green mineral fluorescence, spotty gas bubbles

Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, pyritic, white to gray chert, weathered, chalky, soft to dense, spotty green mineral fluorescence, no shows

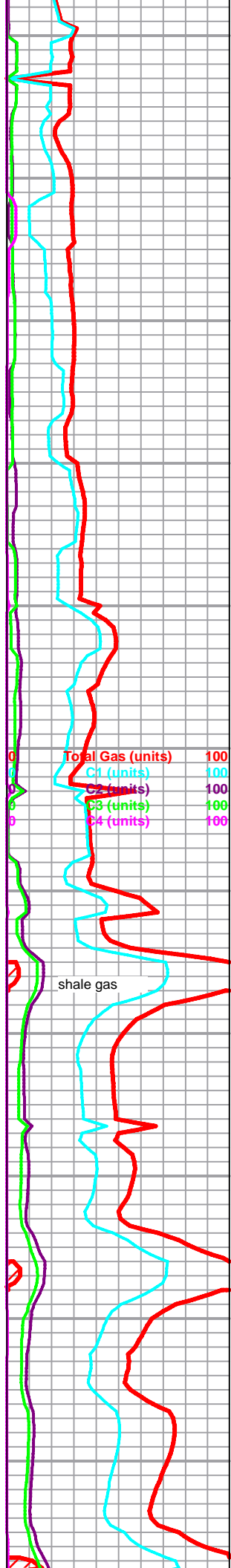
Shale, black carbonaceous

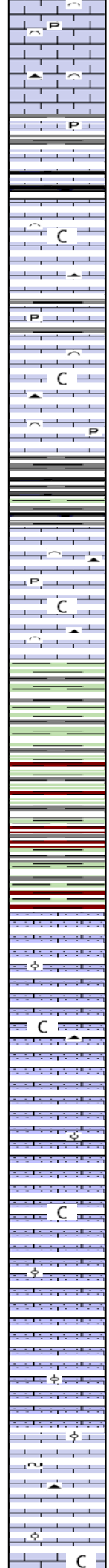
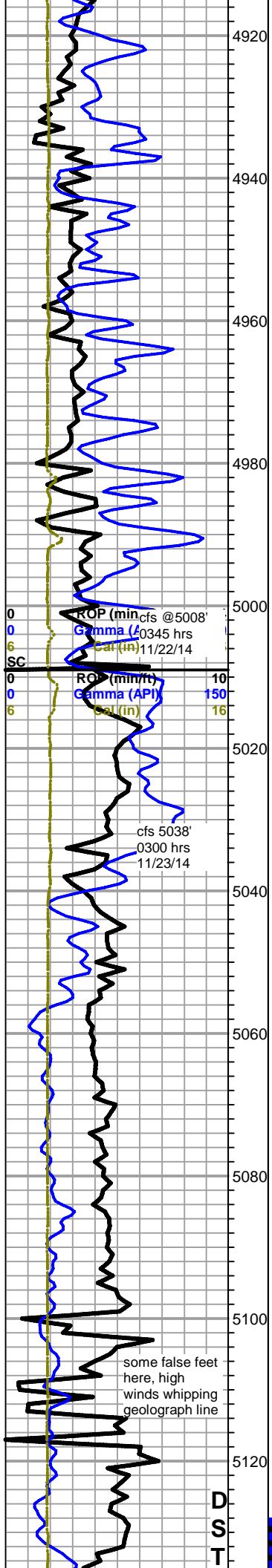
Cherokee 4831 -2049

Shale, black Carbonaceous

Limestone, white to cream to light gray, microcrystalline, bioclastic, fossiliferous, opaque to gray chert, pyritic, weathered, surface etching, chalky, spotty green mineral fluorescence, no shows

Limestone, cream, microcrystalline, bioclastic, fossiliferous, oolitic, pyritic, weathered, soft to dense, spotty green mineral fluorescence, no shows





Limestone, whie to cream, microcrystalline, bioclastic, fossiliferous, brown fossiliferous chert, pyritic, weathered, soft to dense, friable, spotty green mineral fluorescence, no shows

Limestone, whie to cream light gray, microcrystalline, sub bioclastic, fossiliferous, brown to opaque chert, pyritic, sub chalky, weathered, soft to dense, no shows

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

Morrow 5010 -2271

grn shale, w/trace silty sand, vfg

transition into maroon shale, pale green mushy shale, pale green siltstones, brecciated pale green and maroon mottled limestone, some sandy/argill., abun chalk

Miss St. Gen 5046 -2264

Limestone to sandy limestone, white to cream to light gray, microcrystalline, fossilifeous, oolitic, orange chert, soft to dense, sub chalky, no shows

Limestone to sandy limestone, white, microcrystalline, fossilifeous, fine oolitic, soft to dense, no shows

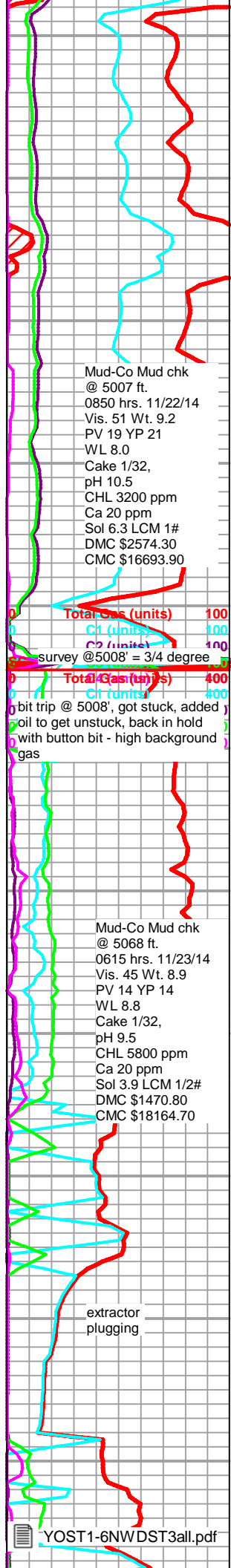
Limestone to sandy limestone, white, microcrystalline, fossilifeous, fine oolitic, soft to dense, no shows

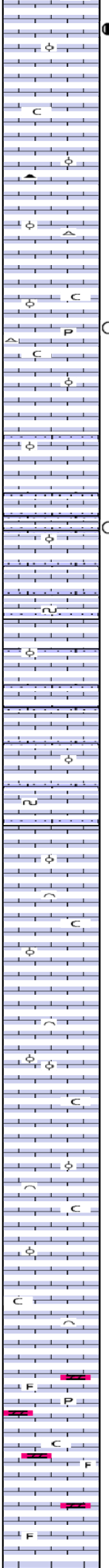
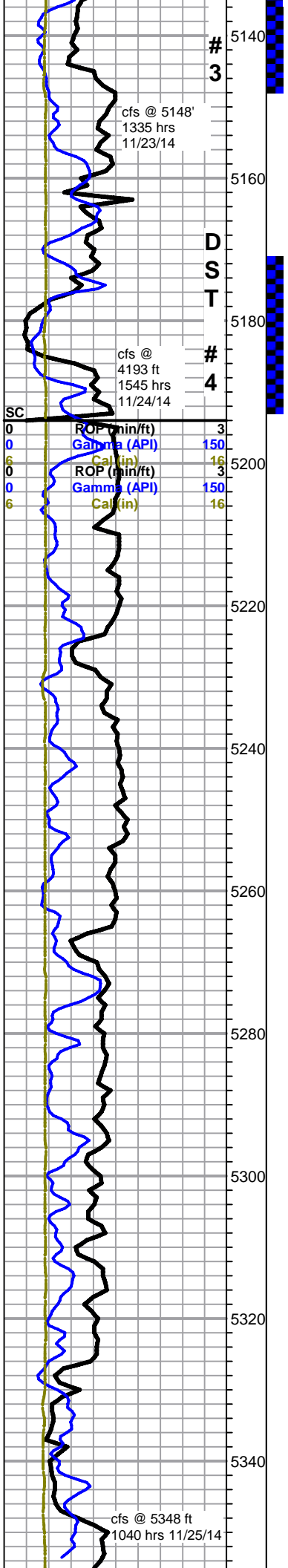
DST #3 - 5128-5148 ft, 5-60-90-120, 1st flow BOB 1 min, 2nd flow GTS 18 min TSTM, rec 4400 ft GIP & 695 ft GMCO (17% gas 81% oil 29% mud, gravity 25) IFP 32-43#, FFP 57-233#, ISIP 1181#, FSIP 1128#, HSH 24-1-2401#, BHT 127 deg F

Limestone, same as above, grading to: fine to medium, round to flatten oolitic, pyritic, gluaconite, opaque/orange chert, sub chalky, poor porosity, no show

St. Louis A 5133 -2351

Limestone, same as above, grading to: fine to medium, mature to fairly





mature oolitic, well to fair sorted ooids, white fossiliferous chert, abundant chalk, poor visible porosity, some inter-oolite staining and scattered fair inter-oolite porosity and framework, free bleeding oil in tray, free oil on break, good odor, fair to poor fluorescence, excellent bright white cut

limestones, mixed gray to cream, dense flattened oolitic to compact fossiliferous, some grainy, abundant chert, rose, gray, smokey gray, translucent gray and white, some with black speckled inclusions, some fossiliferous and slightly spiculitic, no shows

St Louis B 5175 -2393

limestone, white to cream, oolitic, large, mature, rounded to oblong, some friable clusters with no real visible cement, good inter-oolite porosity and staining, slight show oil on break, with abundant loose oolites in bottom of tray, abundant well cemented oolitic specimens, same oolites, well cemented, faint odor in cup, poor fluorescence, slow milky cut on stained samples, abundant chalk in samples

back in hole after DST #4 with PDC bit - note scale change

poor samples, trip trash

limestone, cream to gray, flattened oolitic, chalky, with limestone, variable gray, micro-oolitic, sandy, glauconitic, weathered white to light gray grainy oolitic-bioclastic mix, chalky, trace glauconitic, marked decrease in cherts from above, 5240 sample, trace tan fine oolitic, well rounded and sorted, interoolite stain and no show free oil when broken, no other shows noted

DST #4 - 5171-5193 ft, 5-90-60-90, rec. slo&wcm, IFP 8-9#, FFP 10-19#, ISIP 1416#, FSIP 1238#, HSH 2384-2381#, BHT 119 deg F

as above

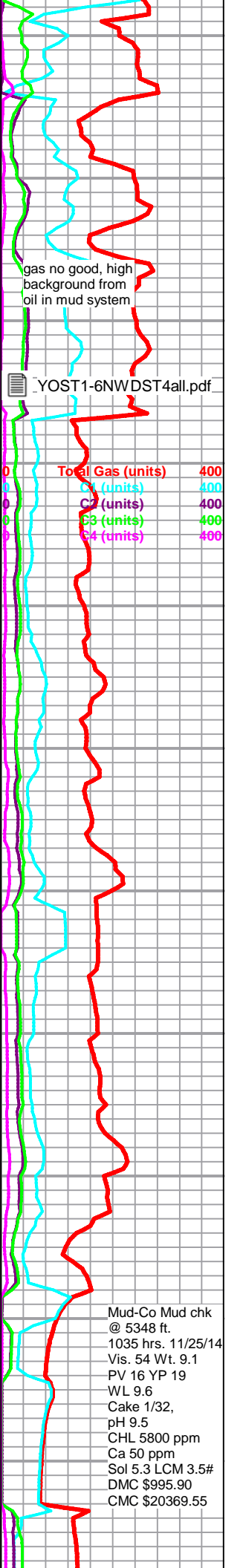
sandy facies from above dropping out, grading to mostly white to gray mottled limestone, variable oolitic to flattened oolitic-bioclastic mix, weathered? and chalky, poor visible porosity, no shows, trace tan fine oolitic in 5290 sample (see above), well rounded and sorted, interoolite stain and no show free oil when broken, no other shows noted

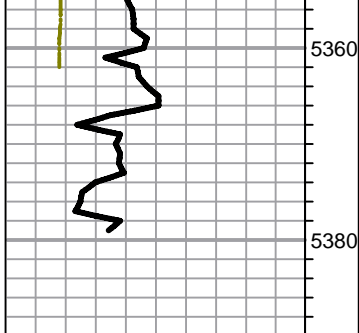
grades to limestone, light gray to cream and white, flattened oolitic to bioclast-fossiliferous, grainy, some layered, chalky in part but fairly dense, no visible porosity, with scattered dense cemented mature oolitic, no shows

as above

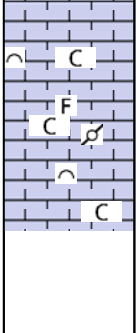
limestone as above, influx limestone, light gray to grayish white, fossiliferous, chalky, distinct arenaceous texture, trace pyritic, scattered very fine crystalline dolomite, tan, dense, no porosity, good green mineral fluorescence

5360-70 samples, as above





5360
5380



cfs 30 min - limestone, white to tan and light gray, slight mottling, chalky bioclastic to fossiliferous, arenaceous facies and dolomite dropst out, abundant chalk, heavy white wash, 60 min sample, a.a. with flood white to tan mottled, pelletal/bioclastic mix, very chalky, abundant chalk as in 30 min sample, no shows

Rotary TD 5379 ft, 1230 hrs, 11/25/14
Pioneer Log TD 5384 ft
complete logging operations 0020 hrs - 11/26/14

