

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1254438
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: _____

1254438

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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	STEVE TUCKER 1-19(SW)
Doc ID	1254438

All Electric Logs Run

DSNT/SDLT
MEL
WAVESONIC
ACRT

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	STEVE TUCKER 1-19(SW)
Doc ID	1254438

Tops

Name	Top	Datum
STOTLER	3514	-687
TARKIO	3580	-753
LANSING	4231	-1404
CHEROKEE	4872	-2045
MORROW SH	5089	-2262
MORROW SS	5093	-2266
MISS ST GEN	5258	-2431
ST LO UPR B	5340	-2513



BASICSM
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <u>Falcon Exploration</u>		Lease No.		Date <u>2-21-15</u>		
Lease <u>Steve Tucker</u>		Well # <u>1-19</u>		Service Receipt <u>5327A</u>		
Casing <u>8 5/8</u>	Depth <u>1831</u>	County <u>Gray</u>		State <u>Ks</u>		
Job Type <u>2-42</u>		Formation <u>Surface</u>		Legal Description <u>Sec 19-285-300W</u>		
Pipe Data			Perforating Data		Cement Data	
Casing size <u>8 5/8</u>	Tubing Size	Shots/Ft		Lead <u>Den 11.4</u>		
Depth <u>1831</u>	Depth	From	To	400sk		
Volume <u>116.45</u>	Volume	From	To	yield 2.95		
Max Press <u>1500</u>	Max Press	From	To	gal/sk 18.10		
Well Connection <u>8 5/8</u>	Annulus Vol.	From	To	Tail in <u>Den 14.8</u>		
Plug Depth	Packer Depth	From	To	150sk		
				yield 1.34		
				gal/sk 6.33		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log	
1:00					On location	
1:30					Safety Meeting & Rigup	
11:14	1900				Prime up psi Test	
11:15	1900		12	2.0	Start stoploss	
11:20	50		210	6.0	Start lead cement	
11:54	50		36	6.0	Start tail cement	
12:03	0		—	—	Shut Down	
12:03	0		—	—	Drop Plug	
12:04	0		—	—	Washup	
12:06	50		1	6.0	Start Displacement	
12:21	200		54	5.0	Caught Cement	
12:30	350		86	—	Shut Down	
12:55	—		—	—	Stage Cement 3 stages 5min each	
12:57	1500		116	—	Plug landed	
1:00	—				Released back	
1:00	—				Float held	
3:00	—				Wait on Cement Fall Back	
Service Units		89315	70287	19570	19827/32705	14355/19883
Driver Names		JUAN	SAM		Hector R	Victor

Leon

Customer Representative

Tyce Davis

Station Manager

JUAN Ortiz

Cementer



BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <i>Falcon Exploration</i>		Lease No.		Date <i>3-8-15</i>	
Lease <i>Steve Tucker</i>		Well # <i>1-19</i>		Service Receipt <i>533V</i>	
Casing <i>5 1/2</i>	Depth <i>5387</i>	County <i>Gray</i>		State <i>KS</i>	
Job Type <i>2-42</i>		Formation		Legal Description <i>Sec 14-28-1130</i>	
Pipe Data			Perforating Data		Cement Data
Casing size <i>5 1/2</i>	Tubing Size		Shots/Ft		Lead <i>Den 14</i>
Depth <i>5365</i>	Depth	From	To		<i>1000</i>
Volume <i>127.71</i>	Volume	From	To		<i>yield 2.25</i>
Max Press <i>1500</i>	Max Press	From	To		<i>gal 18.10</i>
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To		Tail in <i>Den 14.8</i>
Plug Depth	Packer Depth	From	To		<i>555 lbs</i>
					<i>yield 1.51</i>
					<i>gal 6.64</i>
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>6:30</i>					
<i>6:45</i>					<i>on location</i>
					<i>Safety Meeting plug up</i>
1:10					
<i>1:10</i>	<i>1500</i>		<i>1</i>		<i>Primeup psi test</i>
<i>1:15</i>	<i>50</i>		<i>15</i>	<i>3.0</i>	<i>Cement Rat Hole</i>
<i>1:20</i>	<i>50</i>		<i>11</i>	<i>3.8</i>	<i>Cement Mouse Hole</i>
<i>1:25</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>Shut Down</i>
<i>1:35</i>					<i>hookup to casing</i>
<i>1:39</i>	<i>100</i>		<i>12</i>	<i>5.0</i>	<i>Pump Super Flush 11</i>
<i>1:44</i>	<i>100</i>		<i>25</i>	<i>6.0</i>	<i>Pump Scavenger Cement</i>
<i>1:51</i>	<i>150</i>		<i>42</i>	<i>6.0</i>	<i>Start Tail Cement</i>
<i>1:59</i>	<i>250</i>		<i>—</i>	<i>—</i>	<i>Shut Down</i>
<i>2:00</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>Drop Plug</i>
<i>2:01</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>Wash up</i>
<i>2:08</i>	<i>200</i>		<i>1</i>	<i>6.5</i>	<i>Start Displacement</i>
<i>2:15</i>	<i>400</i>		<i>65</i>	<i>7.0</i>	<i>Lift Psi</i>
<i>2:25</i>	<i>1400</i>		<i>128</i>	<i>—</i>	<i>Shut Down</i>
<i>2:30</i>	<i>0</i>		<i>—</i>	<i>—</i>	<i>Released pack</i>
<i>2:35</i>					<i>Float Held</i>
<i>2:45</i>					<i>Ring down</i>
Service Units	<i>89315</i>	<i>38250</i>	<i>19842</i>	<i>14354</i>	<i>19578</i>
Driver Names	<i>JUAN</i>	<i>Carlos</i>		<i>Rogelio</i>	

Leon

Customer Representative

Tyler Davis

Station Manager

JUAN Ortiz

Cementer

DIAMOND TESTING

General Information Report

General Information

Company Name FALCON EXPLORATION, INC.
Contact JASON MITCHELL
Well Name STEVE TUCKER #1-19 (SW)
Unique Well ID DST #1, CHEROKEE, 4956-5025
Surface Location SEC 19-28S-30W, GRAY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, CHEROKEE, 4956-5025
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2015/03/02
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2015/03/01
Final Test Date 2015/03/02

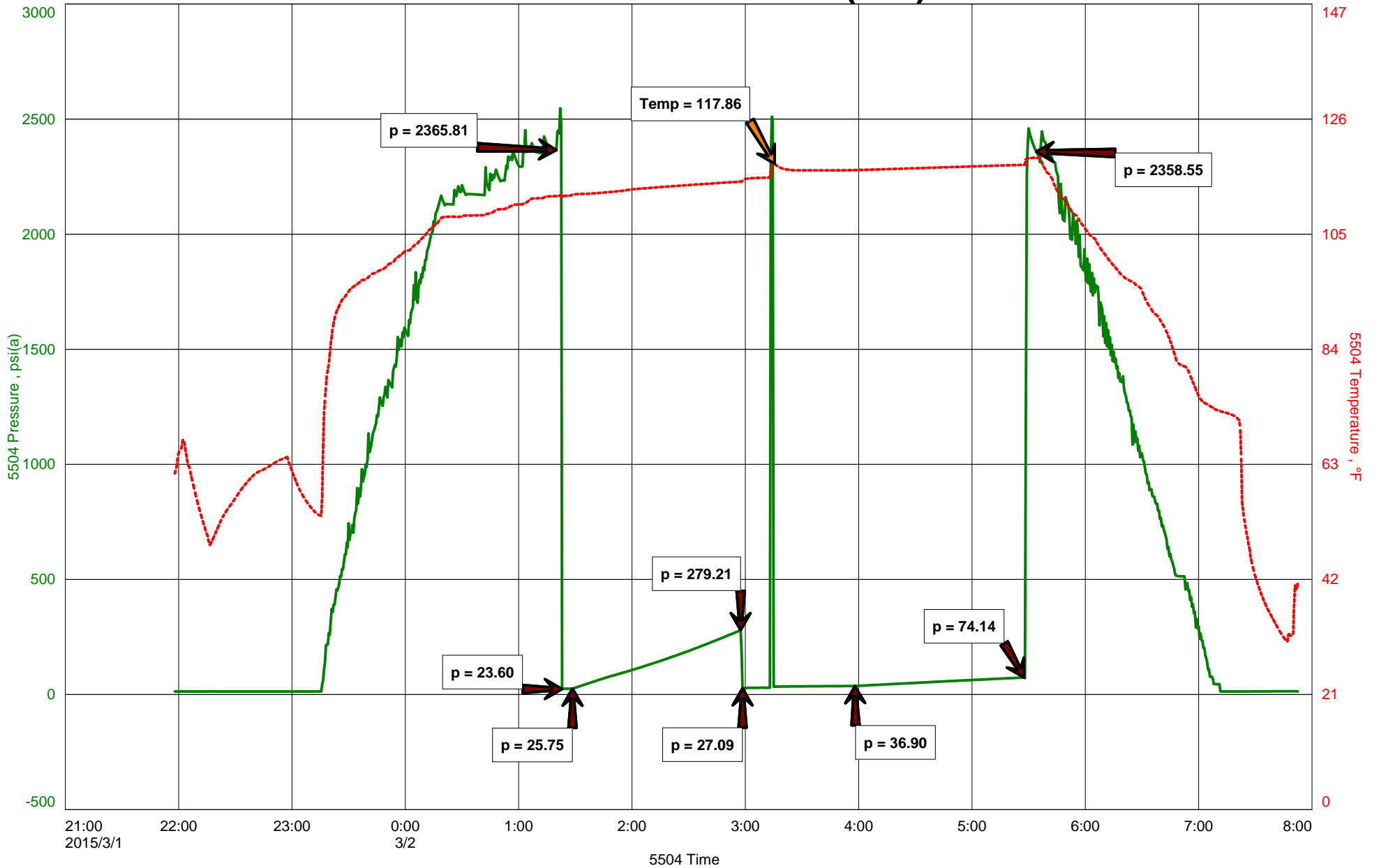
Start Test Time 21:58:00
Final Test Time 07:53:00

Test Recovery:

RECOVERED: 10' M W/SP. O, SPOTTY OIL, 100% MUD

TOOL SAMPLE: SPOTTY OIL, 100% MUD

STEVE TUCKER #1-19 (SW)





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

TIME ON: 21:58 3-1-15
TIME OFF: 07:53 3-2-15

DRILL-STEM TEST TICKET
FILE: STEVETUCKER1-19SWDST1

Company FALCON EXPLORATION, INC. Lease & Well No. STEVE TUCKER #1-19 (SW)
Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC
Elevation 2827 KB Formation CHEROKEE Effective Pay _____ Ft. Ticket No. T444
Date 3-2-15 Sec. 19 Twp. _____ 28 S Range _____ 30 W County GRAY State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 4956 ft. to 5025 ft. Total Depth 5025 ft.

Packer Depth 4951 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4956 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4937 ft. Recorder Number 5504 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 5022 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 51 Drill Collar Length 61 ft. I.D. 2 1/4 in.

Weight 9.25 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,700 P.P.M. Drill Pipe Length 4862 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. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1/4 INCH. (NO BB)

2nd Open: NO BLOW UNTIL WE FLUSHED TOOL AND GOT A SURFACE BLOW LASING 20-25 MIN. (NO BB)

Recovered 10 ft. of M W/SP. O, SPOTTY OIL, 100% MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: WE FLUSHED TOOL 15 MIN. INTO FINAL FLOW PERIOD AND GOT A

SURFACE BLOW LASTING 20-25 MIN.

TOOL SAMPLE: SPOTTY OIL, 100% MUD

Time Set Packer(s) 1:23 AM ^{A.M.} P.M. Time Started Off Bottom 5:28 AM ^{A.M.} P.M. Maximum Temperature 118 deg.

Initial Hydrostatic Pressure..... (A) 2366 P.S.I.

Initial Flow Period..... Minutes 5 (B) 24 P.S.I. to (C) 26 P.S.I.

Initial Closed In Period..... Minutes 90 (D) 279 P.S.I.

Final Flow Period..... Minutes 60 (E) 27 P.S.I. to (F) 37 P.S.I.

Final Closed In Period..... Minutes 90 (G) 74 P.S.I.

Final Hydrostatic Pressure..... (H) 2359 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 STEVE TUCKER #1-19 (SW)
Unique Well ID DST #2, ATOKA, 5073-5103
Surface Location SEC 19-28S-30W, GRAY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, ATOKA, 5073-5103
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2015/03/03
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2015/03/02
Final Test Date 2015/03/03

Start Test Time 21:46:00
Final Test Time 08:43:00

Test Recovery:

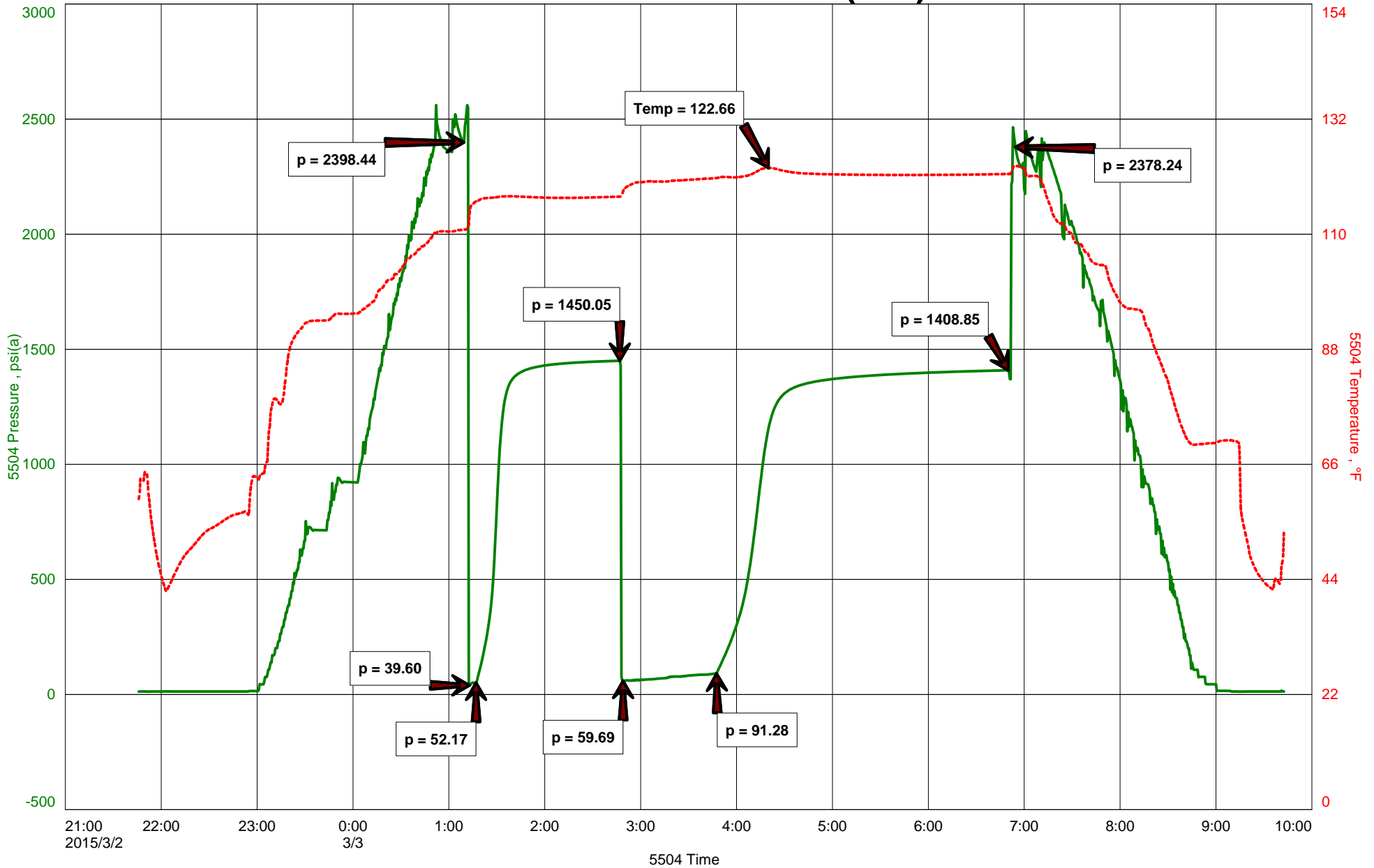
RECOVERED: 2885' GAS IN PIPE
60' GO, 7% GAS, 93% OIL, GRAVITY: 27
60' G,MCO, 4% GAS, 62% OIL, 34% MUD
60' G,OCM, 31% GAS, 21% OIL, 48% MUD
180' TOTAL FLUID

TOOL SAMPLE: 10% GAS, 33% OIL, 57% MUD

FALCON EXPLORATION, INC.
DST #2, MORROW, 5073-5103
Start Test Date: 2015/03/02
Final Test Date: 2015/03/03

STEVE TUCKER #1-19 (SW)
Formation: DST #2, MORROW, 5073-5103
Pool: WILDCAT
Job Number: T445

STEVE TUCKER #1-19 (SW)





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

TIME ON: 21:46 3-2-15
TIME OFF: 08:43 3-3-15

DRILL-STEM TEST TICKET
FILE: STEVETUCKER1-19SWDST2

Company FALCON EXPLORATION, INC. Lease & Well No. STEVE TUCKER #1-19 (SW)
Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC
Elevation 2827 KB Formation ATOKA Effective Pay _____ Ft. Ticket No. T445
Date 3-3-15 Sec. 19 Twp. _____ 28 S Range _____ 30 W County GRAY State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 5073 ft. to 5103 ft. Total Depth 5103 ft.
Packer Depth 5068 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 5073 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5054 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 5100 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 62 Drill Collar Length 61 ft. I.D. 2 1/4 in.
Weight 9.35 Water Loss 7.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,600 P.P.M. Drill Pipe Length 4979 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 30 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 TO 8 INCHES. (NO BB)
2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (2 1/2" BB)

Recovered 2885 ft. of GAS IN PIPE
Recovered 60 ft. of GO, 7% GAS, 93% OIL, GRAVITY: 27
Recovered 60 ft. of G,MCO, 4% GAS, 62% OIL, 34% MUD
Recovered 60 ft. of G,OCM, 31% GAS, 21% OIL, 48% MUD
Recovered 180 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Remarks: <u>WE BLED LINE OFF 10 MIN. IN FINAL FLOW PERIOD AND IT TOOK 4 MIN. TO GET BACK TO BOTTOM OF BUCKET.</u>	Other Charges
<u>TOOL SAMPLE: 10% GAS, 33% OIL, 57% MUD</u>	Insurance
	Total

Time Set Packer(s) 12:12 AM A.M. P.M. Time Started Off Bottom 5:47 AM A.M. P.M. Maximum Temperature 123 deg.

Initial Hydrostatic Pressure..... (A) 2398 P.S.I.
Initial Flow Period..... Minutes 5 (B) 40 P.S.I. to (C) 52 P.S.I.
Initial Closed In Period..... Minutes 90 (D) 1450 P.S.I.
Final Flow Period..... Minutes 60 (E) 60 P.S.I. to (F) 91 P.S.I.
Final Closed In Period..... Minutes 180 (G) 1409 P.S.I.
Final Hydrostatic Pressure..... (H) 2378 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 STEVE TUCKER #1-19 (SW)
Unique Well ID DST #3, ST. LOUIS, 5330-5369
Surface Location SEC 19-28S-30W, GRAY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, ST. LOUIS, 5330-5369
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2015/03/05
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2015/03/04
Final Test Date 2015/03/05

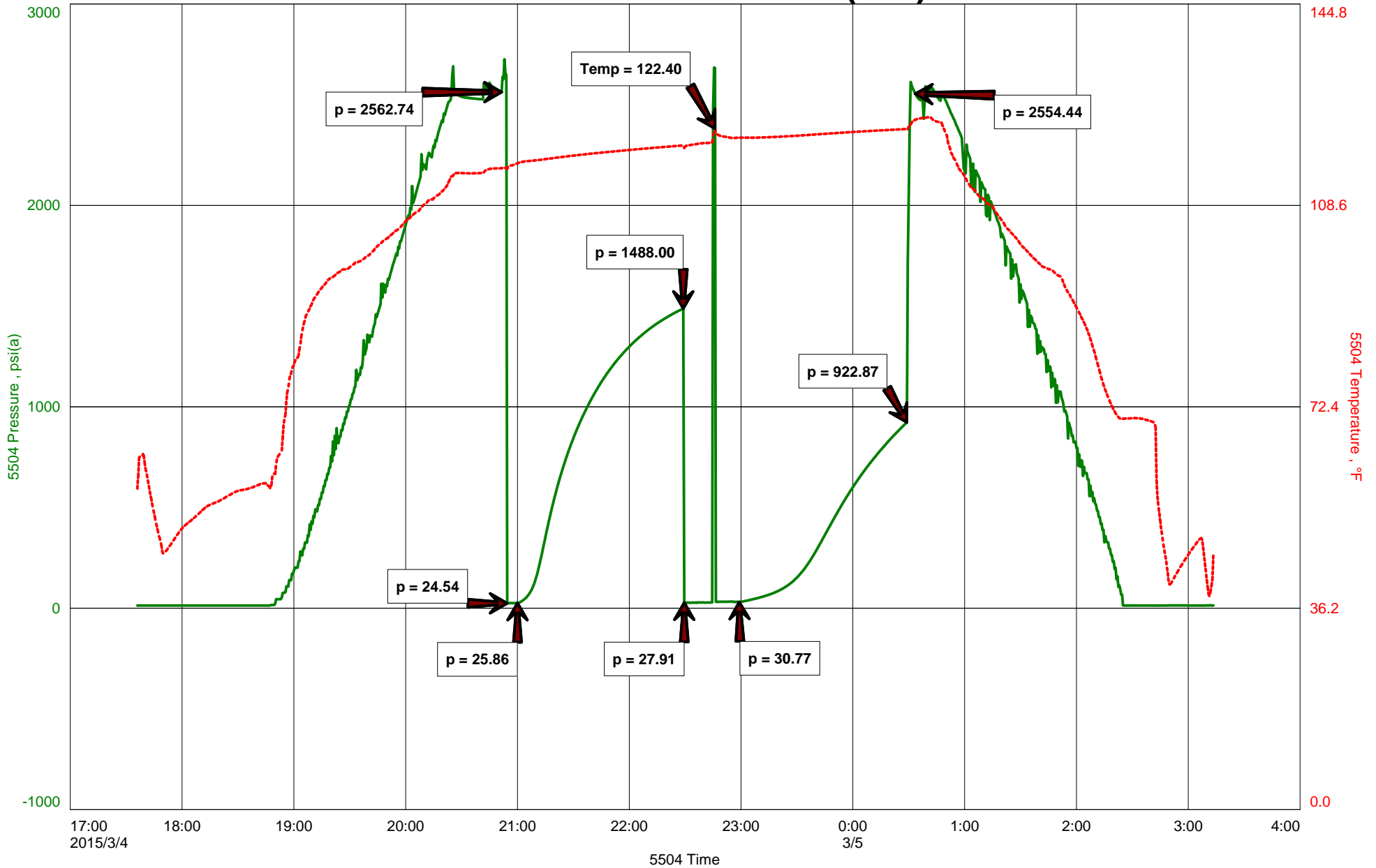
Start Test Time 17:36:00
Final Test Time 03:14:00

Test Recovery:

RECOVERED: 5' M W/SP. O, SPOTTY OIL, 100% MUD

TOOL SAMPLE: TRACE OIL, 100% MUD

STEVE TUCKER #1-19 (SW)





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

TIME ON: 17:36 3-4-15
 TIME OFF: 03:14 3-5-15

DRILL-STEM TEST TICKET
 FILE: STEVETUCKER1-19SWDST3

Company FALCON EXPLORATION, INC. Lease & Well No. STEVE TUCKER #1-19 (SW)
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC
 Elevation 2827 KB Formation ST. LOUIS Effective Pay _____ Ft. Ticket No. T446
 Date 3-4-15 Sec. 19 Twp. 28 S Range 30 W County GRAY State KANSAS
 Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 5330 ft. to 5369 ft. Total Depth 5369 ft.
 Packer Depth 5325 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5330 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5311 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 5366 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 55 Drill Collar Length 61 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 2,000 P.P.M. Drill Pipe Length 5236 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 39 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 THROUGHOUT PERIOD. (NO BB)
 2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 5 ft. of M W/SP. O, SPOTTY OIL, 100% MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: WE FLUSHED TOOL 15 MIN. INTO FINAL FLOW PERIOD AND JUST GOT THE SURGE BLOW.
TOOL SAMPLE: TRACE OIL, 100% MUD

Time Set Packer(s) 8:54 PM A.M. P.M. Time Started Off Bottom 12:29 AM A.M. P.M. Maximum Temperature 122 deg.

Initial Hydrostatic Pressure..... (A) 2563 P.S.I.
 Initial Flow Period..... Minutes 5 (B) 25 P.S.I. to (C) 26 P.S.I.
 Initial Closed In Period..... Minutes 90 (D) 1488 P.S.I.
 Final Flow Period..... Minutes 30 (E) 28 P.S.I. to (F) 31 P.S.I.
 Final Closed In Period..... Minutes 90 (G) 923 P.S.I.
 Final Hydrostatic Pressure..... (H) 2554 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.	Representative	TIM VENTERS
Contact	JASON MITCHELL	Well Operator	FALCON EXPLORATION, INC.
Well Name	STEVE TUCKER #1-19 (SW)	Report Date	2015/03/05
Unique Well ID	DST #4, ST. LO.. "LWR B", 5364-5381	Prepared By	TIM VENTERS
Surface Location	SEC 19,28S-30W GRAY CO. KS.	Qualified By	DAVE WILLIAMS
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #4, ST. LO. "LWR B", 5364-5381		
Well Fluid Type	01 Oil		
Start Test Date	2015/03/05	Start Test Time	12:08:00
Final Test Date	2015/03/05	Final Test Time	22:21:00

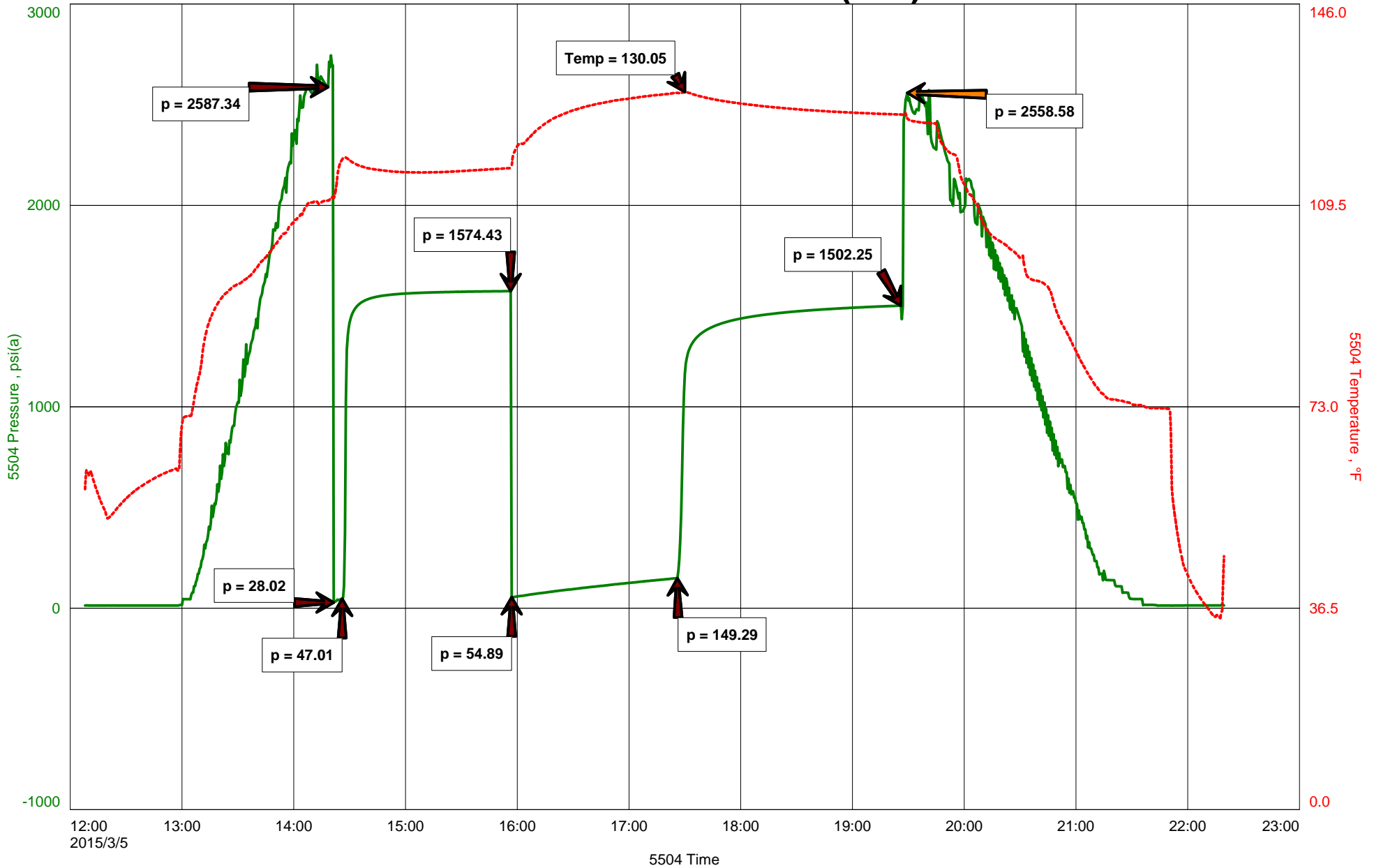
Test Recovery:

RECOVERED: 60' GAS IN PIPE
70' SO,MCW, 4% OIL, 65% WATER, 31% MUD
190' SMCW W/TR. O, TRACE OIL, 97% WATER, 3% MUD
260' TOTAL FLUID

TOOL SAMPLE: 3% OIL, 85% WATER, 12% MUD

CHLORIDES: 130,000 ppm
PH: 5.5
RW: .12 @ 65 deg.

STEVE TUCKER #1-19 (SW)





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

TIME ON: 12:08
 TIME OFF: 22:21

DRILL-STEM TEST TICKET
 FILE: STEVETUCKER1-19SWDST4

Company FALCON EXPLORATION, INC. Lease & Well No. STEVE TUCKER #1-19 (SW)
 Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC
 Elevation 2827 KB Formation ST. LOUIS "LWR B" Effective Pay _____ Ft. Ticket No. T447
 Date 3-5-15 Sec. 19 Twp. _____ 28 S Range _____ 30 W County GRAY State KANSAS
 Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 5364 ft. to 5381 ft. Total Depth 5381 ft.
 Packer Depth 5359 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5364 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5345 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 5378 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 67 Drill Collar Length 61 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 1,500 P.P.M. Drill Pipe Length 5270 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 17 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 1/ INCHES. (NO BB)
 2nd Open: VERY WEAK SURFACE BLOW, BUILDING, REACHING BOB 65 1/2 MIN. (NO BB)

Recovered 60 ft. of GAS IN PIPE
 Recovered 70 ft. of SO, MCW, 4% OIL, 65% WATER, 31% MUD
 Recovered 190 ft. of SMCW W/TR. OIL, TRACE OIL, 97% WATER, 3% MUD
 Recovered 260 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 130,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 5.5	Other Charges
Remarks: _____	RW: .12 @ 65 deg.	Insurance
TOOL SAMPLE: TRACE OIL, 100% MUD		Total

Time Set Packer(s) 2:22 PM A.M. P.M. Time Started Off Bottom 7:27 PM A.M. P.M. Maximum Temperature 130 deg.

Initial Hydrostatic Pressure..... (A) 2587 P.S.I.
 Initial Flow Period..... Minutes 5 (B) 28 P.S.I. to (C) 47 P.S.I.
 Initial Closed In Period..... Minutes 90 (D) 1574 P.S.I.
 Final Flow Period..... Minutes 90 (E) 55 P.S.I. to (F) 149 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 1502 P.S.I.
 Final Hydrostatic Pressure..... (H) 2559 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.

MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: STEVE TUCKER #1-19 (SW)
API: ~~15-069-20496-00-00~~ 15-069-20493-0000
Location: SW - SE - NW -SW of SEC. 19 - 28 S. - 30 W.
License Number: KCC # 5316
Spud Date: 02/19/2015
Surface Coordinates: 1600' FSL & 750' FWL
Region: GRAY CO., KS.
Drilling Completed: 03/07/2015

Bottom Hole
Coordinates:
Ground Elevation (ft): 2814' K.B. Elevation (ft): 2827'
Logged Interval (ft): 1832' To: 5546' Total Depth (ft): 5550'
Formation: MISSISSIPPIAN "SALEM (SPERGEN)"
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL MUD DISPLACEMENT @ 2895'.
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Falcon Exploration, Inc.
Address: 125 North Market Street, Ste. #1252
Wichita, Kansas 67202

GEOLOGIST

Name: David P. Williams, P.G. KSBTP # 88
Company: DW Energy, LLC (DWE)
Address: 312 North Broadview Street
Wichita, Kansas 67208

Casing & Deviation Survey's

Surface Casing: Spud at 6:00 pm on 02/19/15. Drilled 12-1/4" hole to 1836'. Ran 43 joints of new 24#, 8-5/8" casing. Tallied 1817.68', set at 1832' KB. Welded straps on GS & bottom 3 joints, tacked all collars. Float insert top 1st collar. Baskets (3), on 4,17,23. Centralizers (6) 2,11,18,24,32,37. Cemented with 400 sacks A-Conn ; 3% C; 1/4# Poly, then tailed with 150 sks Common plus 2% CC, 1/4# poly. Plug down at 1:00 pm on 02/21/15. Basic Energy Services Ticket #05327. Cement did circulate to surface.

Deviation Survey's Taken: @ 1836' = 1/2 degree; @ 4457' = 3/4 degree; @ 4920' = 3/4 degree; @ 5025' = 3/4 degree; @ 5369' = 3/4 degree; @ 5550' = 1/2 degree.

Production Casing: Ran 123 joints new 15.5#, 5-1/2" casing. Tally 5374'. Set at 5387' KB. Guide shoe on bottom. Latch down baffle in top 1st collar. Centralizers (5) on 2,5,19,25,22. Basket (2) on 8,10. Cemented with 50 sks A-Conn plus 155 sks AA2. Plug down at 3:30 am on 03/08/15. Basic Energy Services ticket #5334. Plugged rathole with 30 sks and mousehole with 20 sks. Sterling reported to KCC (Michelle Pennington) on 03/09/15.

DSTs

~~ DST # 1 ~~ Interval: 4956'-5025'. Times: 5"-90"-60"-90";
 Blow: IF = Very Weak/1/4". FF= No Blow/Died-Flushed Tool @ 15" & Died @ 22". No Help.

Recovery: 10' M (100% M with Few Oil Spots).

Pressures: IH=2366#; FH=2359#; IF=24-26#; FF=27-37#; ISIP= 279#; FSIP=74#; Temp.=118 degrees F..

~~ DST # @ ~~ Interval: 4973'-5103.'. Times: 5"-90"-60"-180";
 Blow: IF= Weak/ Inc/8". No Blow Back ISIP. FF= BOB/ Instant (Bled Off Tool @ 10" & Built BOB/4".

Recovery: 2885' GIP; 180 TF: 60' GO (7% G & 93%O); 60' GCOM (49% G & 62% O & 34% M); 60" GOCM (31% G & 21% O & 48% M).

Pressures: IH=2398#; FH=2378#; IF=40-52#; FF=60-91#; ISIP= 1450#; FSIP=1409#; Temp.=123 degrees F..

~~ DST # 3 ~~ Interval: 5330'-5369'. Times: 5"-90"-30"-60";
 Blow: IF = Very Weak/1/4". FF= No Blow/Died-Flushed Tool @ 15" & Had Surge & Died - No Help

Recovery: 5' M (100% M with Spotty Oil).

Pressures: IH = 2563#; FH=2554#; IF=25-26#; FF= 28-31#; ISIP=1488#; FSIP=923#; Temp.=122 degrees F..

~~ DST #4 ~~ Interval: 5364'-5381'. Times: 5"-90"-90"-120";
 Blow: IF=Very Weak/1/4". FF= Weak Build to BOB/65". No Blow Back During FSIP.

Recovery: 60' GIP & 260' TF: 70 SOMCW (4% O & 35% M & 65% W); 190' SMCW (w/Tr. O & 3% M & 97% W).
 Tool Spl: (3% O & 12% M & 85% W).

Pressures: IH=2587#; FH=2559#; IF=28-47#; FF=55-149#; ISIP= 1574#; FSIP=1502#; Temp = 130 degrees F..


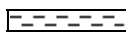

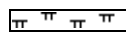
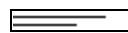
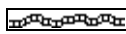




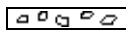







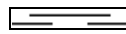




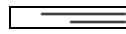
Comments

After review of all geologic samples as examined, combined with the fluid and pressures results from all drill stem tests taken and analysis from the electric logs run, it was determined by all parties that production casing should be run in order to further evaluate this well.

Respectfully submitted,

David P. Williams, P. G.

ROCK TYPES

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

ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Brefracg
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau
 - Gyp

- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- FOSSIL**
- Algae
 - Amph

- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Fuss
- Gastro
- Oolite
- Oomold
- Ostra
- Pelec

- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gry sh
- Gyp
- Ls
- Mrst
- Sandylms
- Sltstrg

- Ssstrg

TEXTURE

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

OTHER SYMBOLS

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

- Vuggy

- SORTING**
- Well
 - Moderate
 - Poor

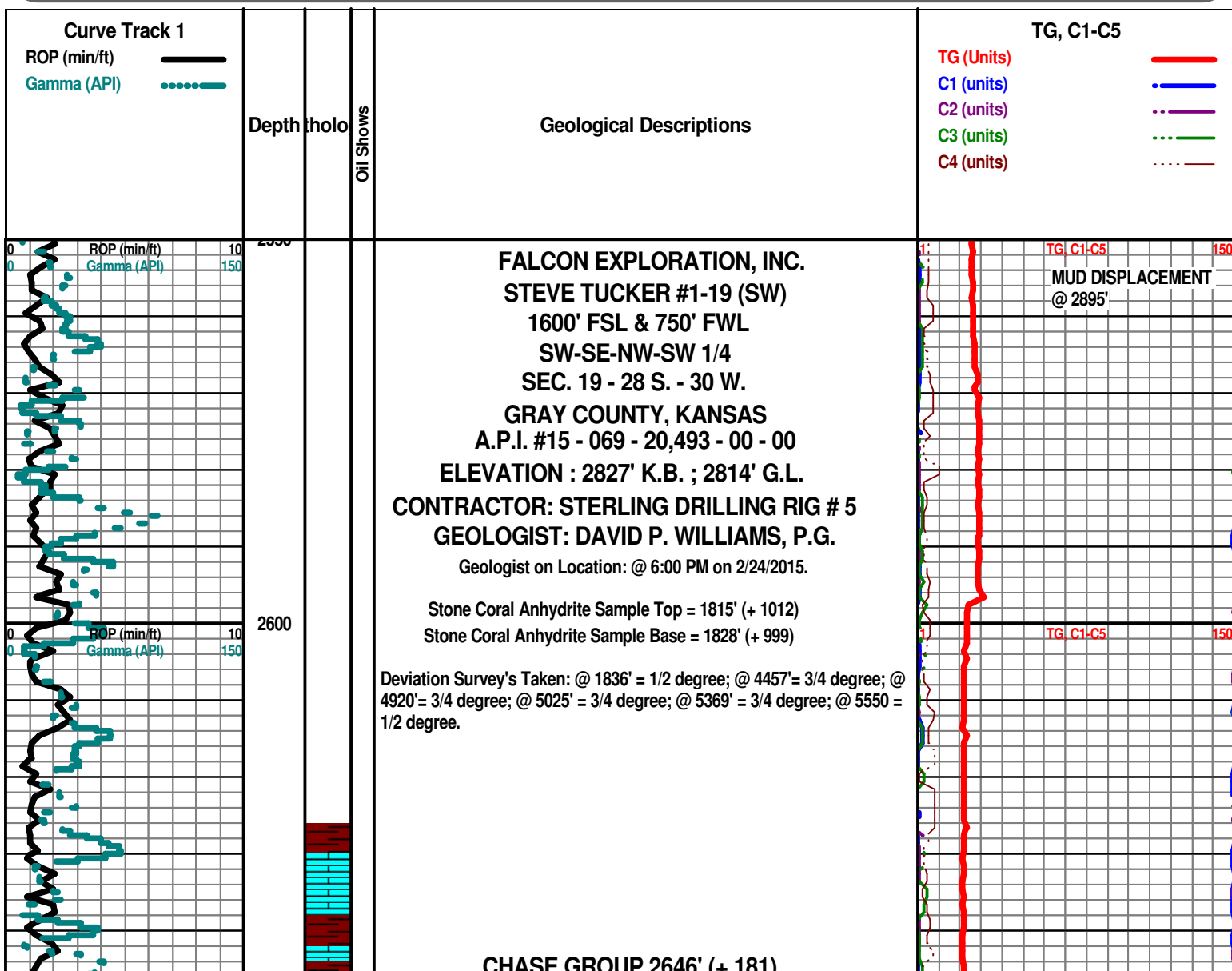
- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

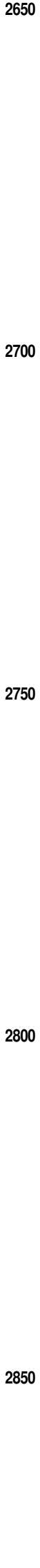
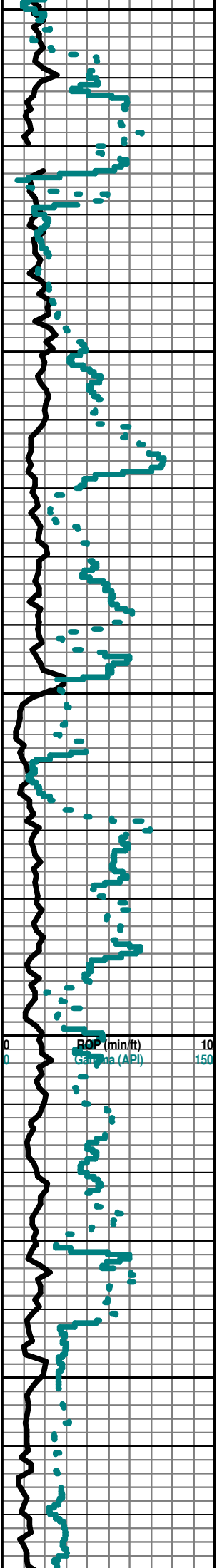
- Even
- Spotted
- Ques
- Dead

- EVENT**
- Rft
 - Sidewall

- OIL SHOW**
- Gas show

- INTERVAL**
- Dst
 - Dst_alt





KRIDER 2674' (+ 153)

Begin 32' Sample Examination @ 2750'.

Note: All samples have been lagged to depth by calculated time.

Sh Red-Char V Abd Dolo/ Ls Crm FxIn Micrite Anhy/Gyp AA No Odor No Stn No Flor NS

WINFIELD 2718' (+109)

Sh Gry-Red Tr Blk Carb Fissil-Soft Poor Spl (Wash Red V Abd) Dolo/Ls Crm-Gry Poor IxIn Por Dns Micrite Chalky No Odor No Stn No Flor NS

TOWANDA 2789' (+38)

Sh Gry-Red Soft (Wash Red V Abd) Dolo/Ls Crm-Gry Poor IxIn Por Dns Micrite Chalky No Odor No Stn No Flor NS

Sh Gry-Red Soft (Wash Red V Abd) Ls Crm-Gry Poor IxIn Por Dns Micrite Chalky No Odor No Stn No Flor NS

FORT RILEY 2840' (- 13)

Sh Gry-Red Soft (Wash Red V Abd) Ls Crm-Gry Poor IxIn Por Dns Micrite Chalky No Odor No Stn No Flor NS

GAS KICK = 20 UNITS.

GAS KICK = 25 UNITS.

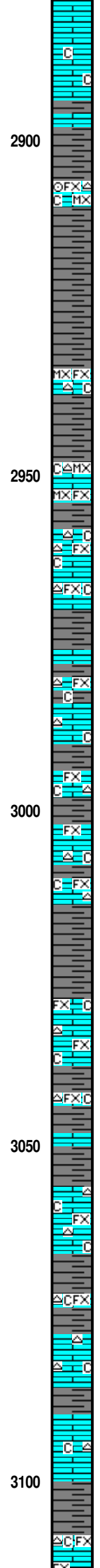
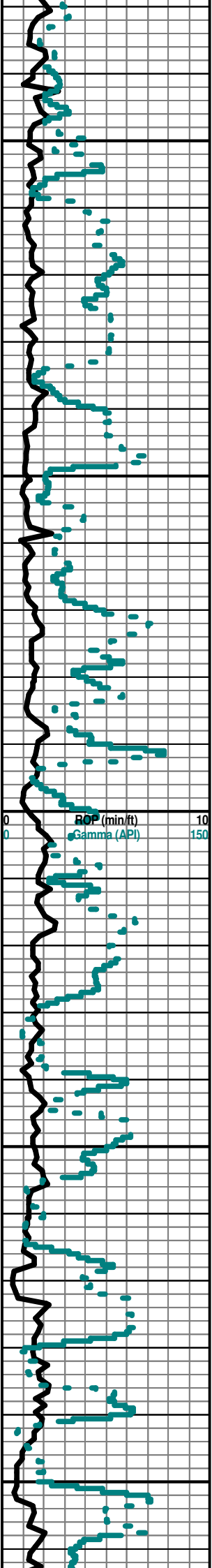
GAS KICK = 20 UNITS.

TG C1-C5 150

RE-ZERO TOOKE
DAQ IN GEOTRAILER
@ 2830' (2820' LAG
DEPTH) . BKGD GAS
SET @ 23 UNITS.

ADJ. ANNULAR
VELOCITY (AV) @
2838' @ 56 SPM =
187.79.

MUD DISPLACEMENT @ 2895'



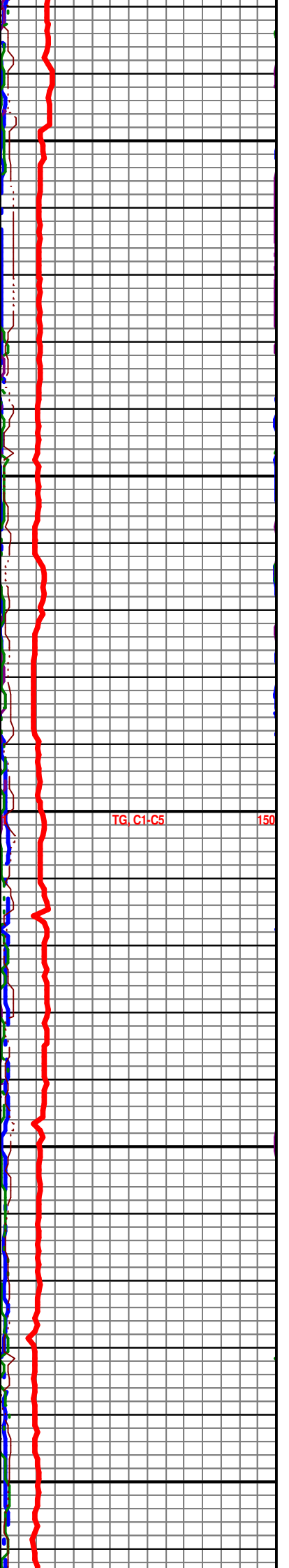
Ls Crm-Gry FxIn-MicroxIn Poor-Fair IxIn Por Grad Poor Dns Micrite Cht Gry (w/Brn Incls) Fos (Crin) Chalky Sh Gry-Red Soft No Odor No Stn No Flor NS

Ls Crm-Gry FxIn-MicroxIn Poor-Fair IxIn Por Tr Granular Grad Poor Dns Micrite Cht Wht Op Shp Vit Chalky Abd Sh Gry-Red Soft No Odor No Stn No Flor NS

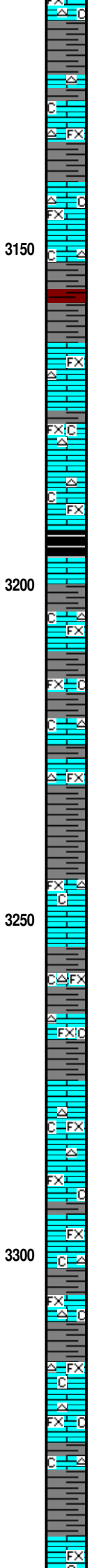
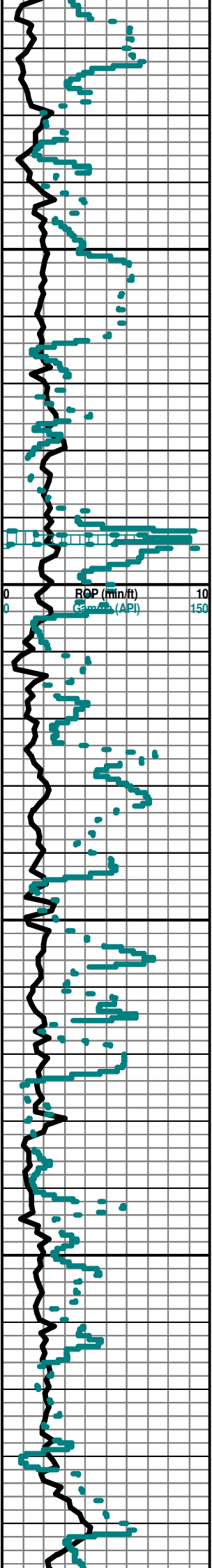
Ls Crm-Wht FxIn Poor IxIn Por Dns Micrite Cht Wht Op Shp Vit Chalky V Abd "Gummy" Sh Gry-Red Soft No Odor No Stn No Flor NS

Ls Crm-Wht FxIn Poor IxIn Por Dns Micrite Cht Wht Op Shp Vit Chalky V Abd "Gummy" Sh Gry-Red Soft No Odor No Stn No Flor NS

Ls Crm-Wht FxIn Poor IxIn Por Dns Micrite Cht Wht Op Shp Vit Chalky Sh Gry-Red Soft No Odor No Stn No Flor NS



TG C1-C5 150



Ls Crm-Wht-Gry FxIn Poor IxIn Por Dns Micrite Chalky Sh Gry-Red-Maroon Soft No Odor No Stn No Flor NS

COTTONWOOD 3123' (-296)

Sh Gry-Red-Maroon Soft (Wash Red) Ls Crm-Wht-Gry FxIn Poor IxIn Por Dns Micrite Cht Gry Op Shp Vit Chalky No Odor No Stn No Flor NS

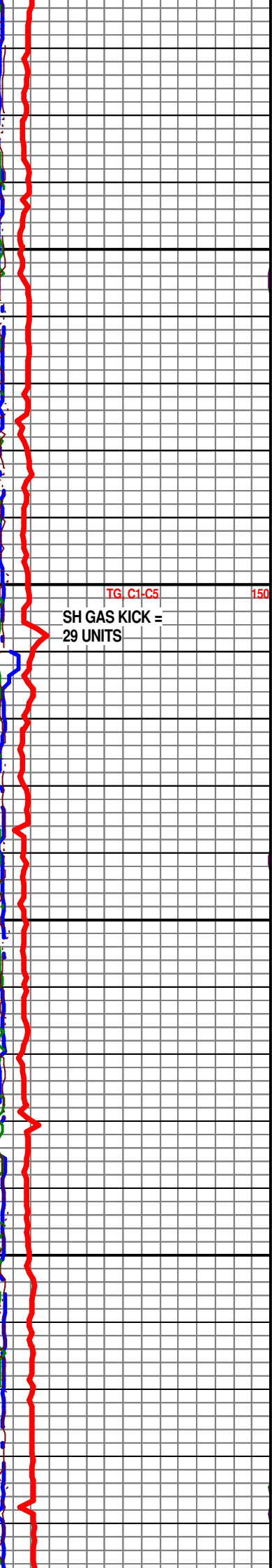
NEVA 3164' (- 337)

Ls Wht-Crm-Gry FxIn Poor IxIn Por Dns Micrite Cht Gry Op Shp Vit Chalk Sh Blk Carb-Char-Gry-Red-Maroon-Lt Grn Soft-Fissil No Odor No Stn No Flor NS

FORAKER 3274' (- 447)

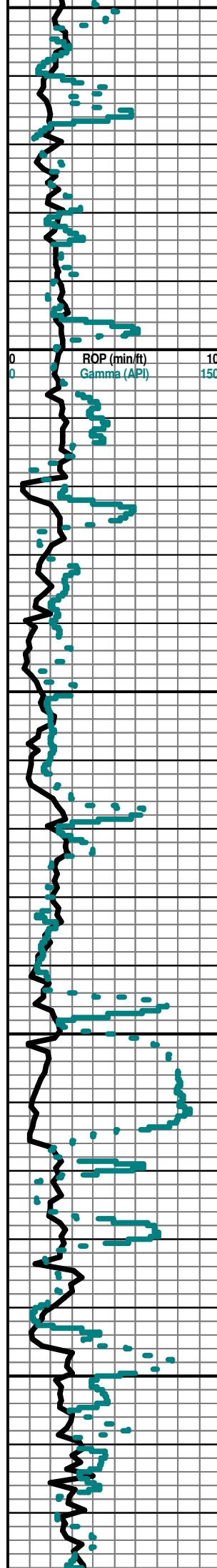
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Ls Wht-Crm-Gry FxIn Poor IxIn Por Dns Micrite Cht Wht-Clear Transp-Op Shp Vit Chalk Sh Char-Gry-Red-Maroon-Lt Grn Soft- Fissil No Odor No Stn No Flor NS



TG, C1, C5 150

SH GAS KICK = 29 UNITS



Ls Wht-Crm-Gry FxIn Poor IxIn Por Dns Micrite Cht Wht-Clear Transp-Op Shp Vit Chalk Sh Char-Gry-Red-Maroon-Lt Grn Soft- Fissil No Odor No Stn No Flor NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Dns Micrite Cht Wht-Clear Transp-Op Shp Vit Chalk Sh Char-Gry-Red-Maroon-Lt Grn Soft- Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Poor IxIn Por Dns Micrite Cht Gry-Wht-Blk Transp-Op Shp Vit Chalk Sh Char-Gry-Red-Maroon-Lt Grn Soft- Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Poor IxIn Por Dns Micrite Cht Wht Transp- Op Shp Vit Chalk Sh Blk Carb-Char-Gry-Red-Maroon-Lt Grn Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Poor IxIn Por Dns Micrite Cht Wht-Gry Transp-Op Shp Vit Chalk Fos (Crin, Fuss) Sh Char-Gry-Red- Maroon-Lt Grn Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Poor IxIn Por Dns Micrite Cht Wht-Gry Transp- Op Shp Vit Chalk Sh Char-Gry-Red-Maroon-Lt Grn Soft-Fissil No Odor No Stn No Flor NS

GAS TEST
EXTRACTOR
= 64 UNITS
OBSERVED.

TG, C1-C5 150

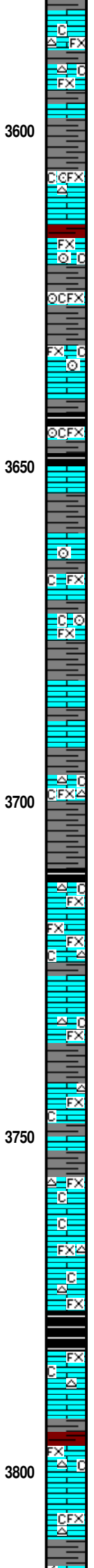
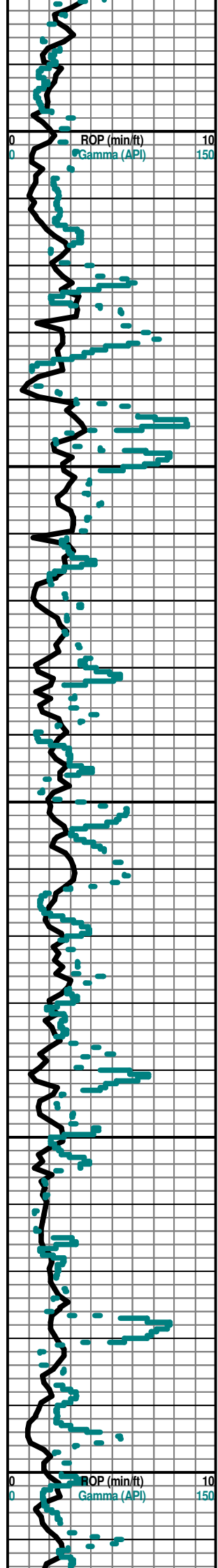
Mudco Ck @ 3406'
@ 12:00 PM
02/25/15
Vis = 48;
WT = 8.9;
PV = 12;
YP = 15;
WL = 10.8;
Cake = 1;
Chl = 3,600;
Cal = 160;
Sol = 4.1%;
LCM = 1#;
DMC=\$3,477.77;
CMC=\$ 9,624.53.

FALL CITY 3426' (- 599)

ROOT SHALE 3494' (- 667)

STOTLER 3514' (- 691)

TARKIO 3581' (- 754)



Ls Wht-Crm FxIn Poor IxIn Por Dns Micrite Cht Wht-Gry Transp- Op Shp Vit Chalk Fos (Crin) Sh Char-Gry-Red-Maroon-Lt Grn Soft-Fissil No Odor No Stn No Flor NS

Ls Crm-Gry FxIn Poor IxIn Por Dns Micrite Grad Poor Pin-Pt Por Chalk V Abd Fos (Crin) Sh Char-Gry-Lt Grn Soft-Fissil No Odor No Stn No Flor NS

BERN 3660' (- 833)

Sh Char-Gry-Lt Grn-Red Soft-Fissil Ls Wht-Crm FxIn Poor IxIn Por Dns Micrite Grad Poor Pin-Pt Por Chalk V Abd Fos (Crin) No Odor No Stn No Flor NS

Sh Blk Carb-Gry Fissil Fissil Ls Wht-Crm-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Cht Wht Op Shp Vit Chalk Sh Gry-Char Soft No Odor No Flor No Stn NS

Sh Blk Carb-Gry Fissil Fissil Ls Wht-Crm-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Cht Wht Op Shp Vit Chalk Sh Gry-Char Soft No Odor No Flor No Stn NS

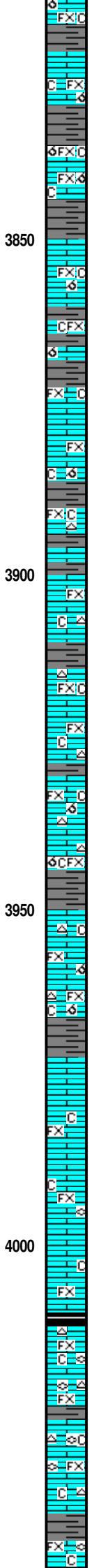
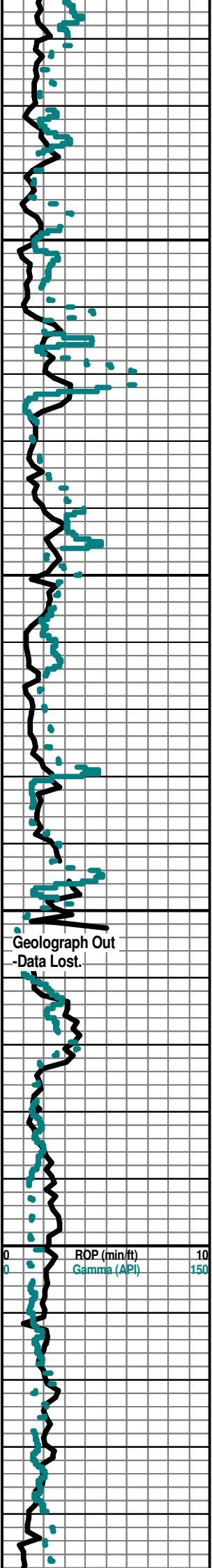
TOPEKA 3781' (- 955)

Sh Char-Red Fissil Soft Ls Wht-Crm FxIn Poor IxIn Por Grad Micritic Dsn Barren Cht Wht-Gry Op Shp Vit Chalk No Odor No Flor No Stn NS

GAS TEST
EXTRACTOR = 157
UNITS OBSERVED.

TG C1-C5 150

TG C1-C5 150



Ls Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Grad
 Poor OOM Por Poor Leaching Poor Dussolu Chalk Sh Char-Grn Fissil
 Soft No Odor No Flor No Stn NS

3850

Ls Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Grad
 Poor OOM Por (Tr Only) Poor Leaching Poor Dussolu Chalk Abd Sh
 Char-Grn Fissil Soft No Odor No Flor No Stn NS

3900

Ls Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Cht
 Wht-Tan Op Vit Shp Chalk Abd Sh Char-Red-Maroon-Aqua Fissil-Soft
 No Odor No Flor No Stn NS

3950

Geograph Out
 -Data Lost.

Ls Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Grad
 Poor OOM Por (Poor OOid Leaching Cht Wht Op Vit Shp Chalk VAbd Sh
 Char-Grn Fissil Soft No Odor No Flor No Stn NS

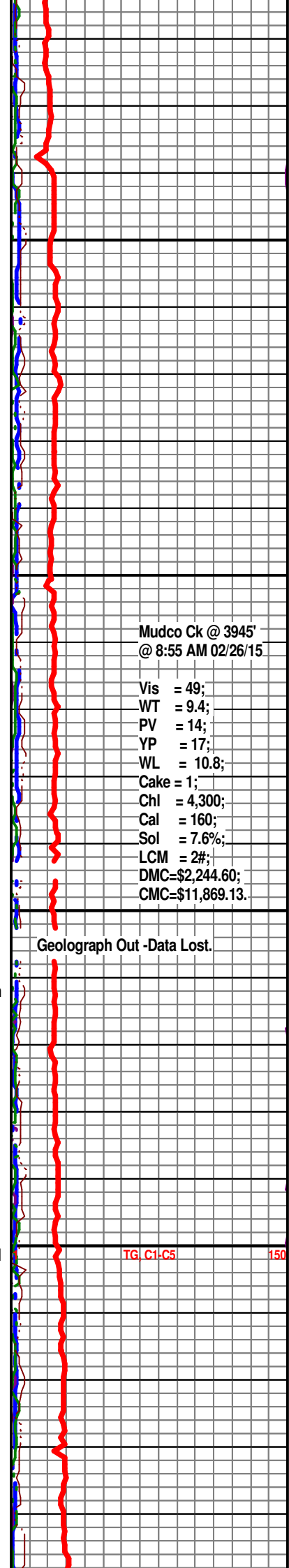
LeCOMPTON 3972' (- 1145)

4000

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Chalk VAbd
 Sh Gry-Char Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Cht Wht-Gry Op Shp Vit Fos
 (Fuss) Chalk Abd Sh Gry-Char Soft-Fissil No Odor No Flor No Stn NS

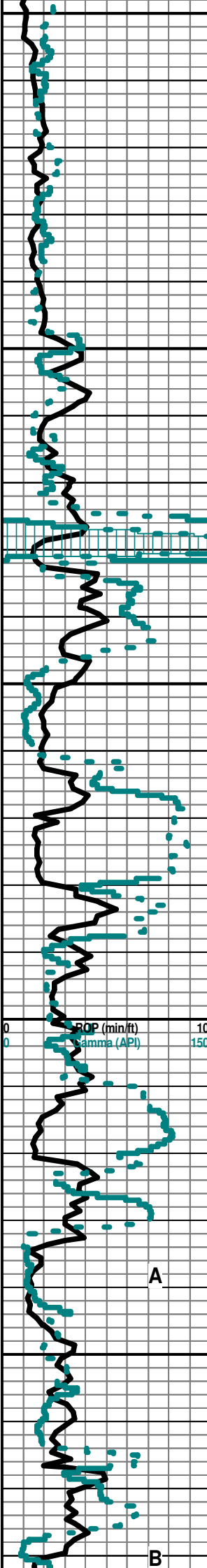
OREAD 4044' (- 1217)



Mudco Ck @ 3945'
 @ 8:55 AM 02/26/15

- Vis = 49;
- WT = 9.4;
- PV = 14;
- YP = 17;
- WL = 10.8;
- Cake = 1;
- Chl = 4,300;
- Cal = 160;
- Sol = 7.6%;
- LCM = 2#;
- DMC=\$2,244.60;
- CMC=\$11,869.13.

Geograph Out -Data Lost.



4050
4100
4150
4200
4250



Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Grad Poor
OOM Por Poor Leaching Poor Develop Cht Wht Op Shp Vit Chalk Abd
Sh Gry-Char Fissil No Odor No Flor No Stn NS

PLATTSMOUTH 4102' (- 1275)

Ls Wht-Crm FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Cht Gry Op Shp
Vit Chalk Sh Blk Carb-Gry-Char-Lt Grn Soft-Fissil No Odor No Flor No
Stn NS

HEEBNER 4124' (- 1297)

LEVENWORTH 4133' (- 1306)

Sh Blk Carb- Gry-Char Fissil Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor
Pin-Pt IxIn Por Chalk Abd No Odor No Flor No Stn NS

TORONTO 4146' (- 1319)

DOUGLAS 4161' (- 1334)

Sh Char-Gry-Grn Soft-Fissil Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn
Por Chalk Soft Abd No Odor No Stn No Flor NS

Ls Crm-Wht-Gry FxIn Dns Micrite Barren Cht Wht-Drk Gry Op Shp Vit
Chalk Abd Sh Blk Carb-Char-Grn/Gry Soft-Fissil No Odor No Stn No Flor
NS

IATAN (BROWN LIME) 4223' (- 1396)

Begin 10' Sample Examination @ 4250' (LAG Is 4230').

LANSING 4231' (- 1404)

Ls Crm-Wht-Gry FxIn Dns Micrite (w/Pyr Inklus) Grad Poor IxIn Gran Por
Barren Cht Wht Op Shp Vit Chalk Abd Sh Blk Carb- Char-Grn/Gry
Soft-Fissil No Odor No Stn No Flor NS

Ls Crm-Wht-Gry FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Abd Sh Blk
Carb-Char-Grn/Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Crm-Wht-Gry FxIn Dns Micrite Cht Gry Op Shp Vit Chalk Abd Sh Blk
Carb-Char-Grn/Gry Soft-Fissil No Odor No Stn No Flor NS

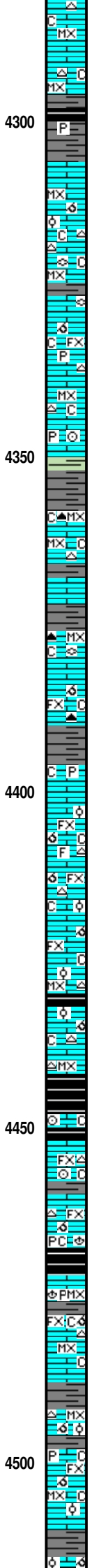
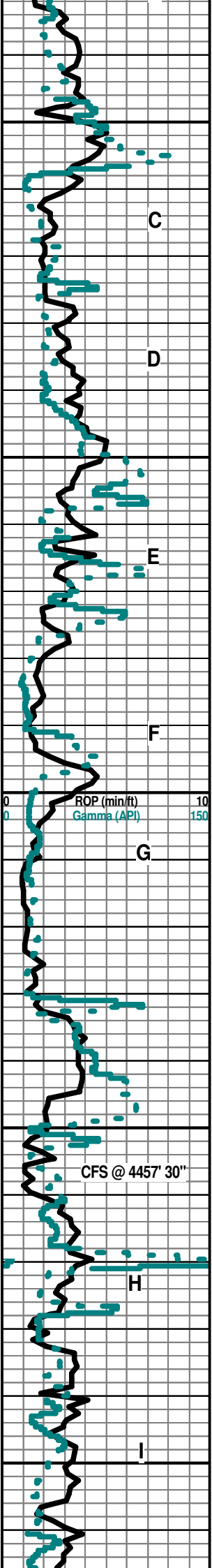
Ls Crm-Wht-Gry FxIn Dns Micrite Cht Gry Op Shp Vit Chalk Abd Sh Blk
Carb-Char-Grn/Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Crm-Wht-Tan-Gry MicroxIn Dns Micrite Cht Wht-Tan Op Shp Vit Chalk
Sh Char-Gry-Aqua Soft-Fissil No Odor No Stn No Flor NS

CHANGEOUT EXTRACTOR
FILTER @ 4143' DE & ADJ.
FINE GAS ZERO IN
GEOTRAILER. BKDG GAS
SET @ (4125') = 32 UNITS.
GAS TEST AT EXTRACTOR
@ 4127' = 112 UNITS.

TG, C1-C5 150

ADJ. FINE GAS ZERO IN
GEOTRAILER. BKDG GAS
SET @ (4284') = 33 UNITS.



Ls Crm-Wht-Gry Microxln Dns Micrite Cht Tan Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Microxln Dns Micrite Cht Tan Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Microxln Dns Micrite Cht Tan Op Shp Vit Chalk Sh Char-Gry (w/Pyr Inclus)-Blk Carb (Tr Only) Soft-Fissil No Odor No Stn No Flor NS

Ls Crm-Gry Microxln Dns Micrite Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Develop Barren Cht Gry Op Shp Vit Chalk Sh Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Microxln Dns Micrite Grad Poor PPT Ixln Por Cht Tan (w/Fos (Fuss) Inclus) Op Shp Vit Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Dns Micrite (w/Pyr Inclus) Grad Poor PPT Ixln-Granular Por Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Develop Barren Cht Wht-Gry Op Shp Vit Chalk Sh Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Tan-Gry Microxln-Fxln Dns Micrite (w/Pyr Inclus) Grad Poor PPT Ixln Por (w/Fos Inclus) Barren Cht Wht Op Shp Vit ChalkSh Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Gry Microxln Dns Micrite Cht Amber Gry-Drk Gry-Blk Translu-Op Shp Vit Fos (Crin) Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Gry Microxln Dns Micrite Cht Gry-Op Shp Vit Chalk Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Drk Tan Microxln Dns Micrite Cht Gry-Drk Gry-Blk Translu-Op Shp Vit Fos (Fuss) Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan Fxln Dns Micrite (w/Pyr Inclus) Grad Poor PPT Ixln Por Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Develop Barren Cht Gry-Drk Gry Translu-Op Shp Vit Fos (Crin) Chalk Sh Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan Fxln Dns Micrite Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Develop Barren Cht Gry-Drk Gry Op Shp Vit Chalk Sh Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Crm-Tan Fxln Dns Micrite Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Develop Barren Cht Tan (w/Fos (Spicule) in pl) Op Shp Vit Chalk Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan Fxln Dns Micrite Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Develop Barren Cht Tan Op Shp Vit Chalk Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan Fxln Dns Micrite Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Develop Barren Cht Wht Op Shp Vit Chalk Sh Char-Grn/Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Crm-Gry Microxln Dns Micrite Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Develop Barren Cht Gry-Op Shp Vit Fos (Crin) Chalk VAbd Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

MUNCIE CREEK 4442' (- 1615)

Ls Crm-Gry Microxln Dns Micrite Barren Cht Gry-Op Shp Vit Fos (Crin) Chalk VAbd Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

30" CFS @ 4457' Ls Wht Crm-Tan Fxln Good OOM Por (w/Med-Lg OOids in pl) Tr Med Vug OOM Por Good Dissolu Good Develop Barren Cht Wht-Gry Op Shp Vit Fos (Crin) Chalk Pyr Mass Sh Char-Grn/Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht Crm-Tan Fxln Good OOM Por (w/Med-Lg OOids in pl) Tr Med Vug OOM Por Good Dissolu Good Develop Barren Cht Gry Op Shp Vit Fos (Brach) Chalk Pyr Mass Sh Char-Grn/Gry-Aqua Fissil No Odor No Stn No Flor NS

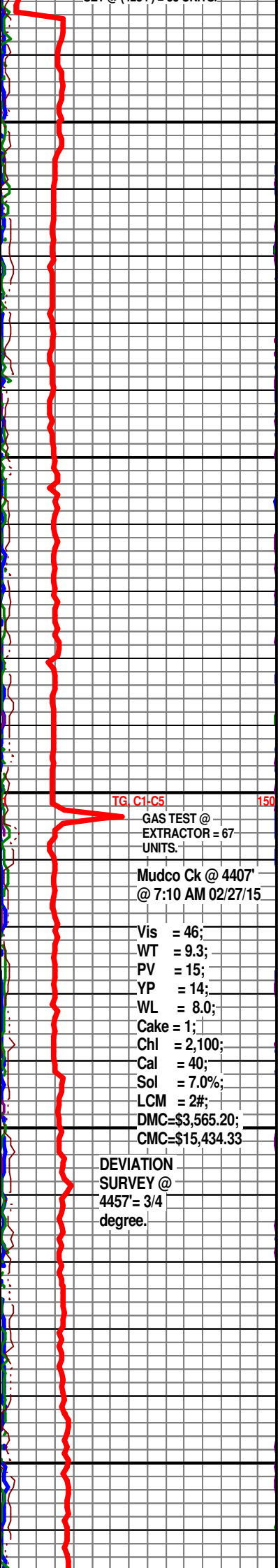
Ls Wht Crm-Tan Fxln-Microxln Good OOM Por (w/Med-Lg OOids in pl) Tr Med Vug OOM Por Good Dissolu Good Develop Barren Grad Dns Micrite No Vis Por Cht Wht Op Shp Vit Fos (Brach) Chalk Pyr Mass Sh Char-Grn/Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Micrite Barren Cht Gry-Op Shp Vit Chalk Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Gry Fxln-Microxln Good OOM Por (w/Med-Lg OOids in pl) Tr Med Vug OOM Por Good Dissolu Good Develop Barren Grad Dns Micrite No Vis Por Cht Gry Op Shp Vit Chalk Pyr Mass Sh Char-Grn/Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry Fxln-Microxln Good OOM Por (w/Med-Lg OOids in pl) Tr Med Vug OOM Por Good Dissolu Good Develop Barren Grad Dns Micrite No Vis Por Cht Gry (w/Small OOid Inclus) Op Shp Vit Chalk Pyr Mass Sh Char-Grn/Gry-Blk Carb (Tr Only) Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry Fxln-Microxln Dns Micrite No Vis Por Grad Fair OOM Por (w/Small OOids in pl) Tr Poor Vug OOM Por Fair Dissolu Fair Develop Barren Chalky Sh



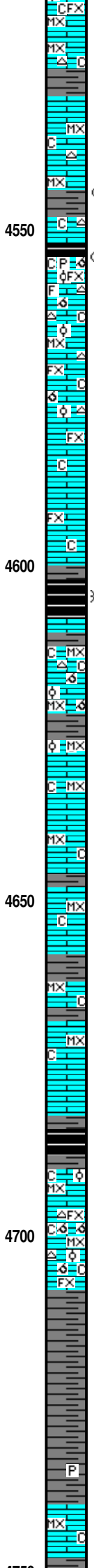
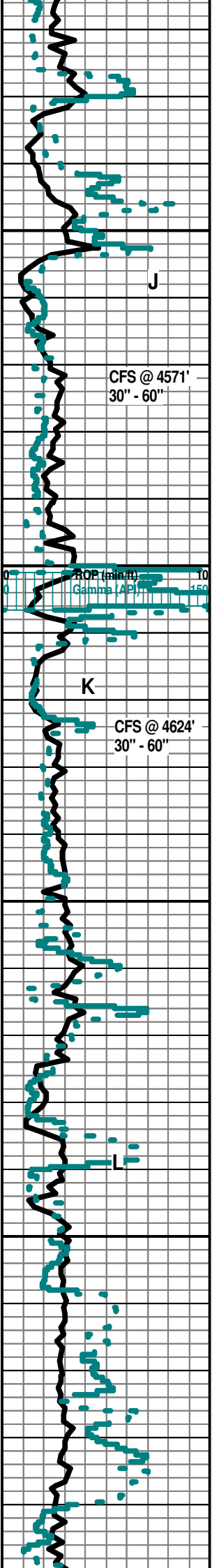
TG C1:C5 150

GAS TEST @ EXTRACTOR = 67 UNITS.

Mudco Ck @ 4407' @ 7:10 AM 02/27/15

Vis = 46;
 WT = 9.3;
 PV = 15;
 YP = 14;
 WL = 8.0;
 Cake = 1;
 Chl = 2,100;
 Cal = 40;
 Sol = 7.0%;
 LCM = 2#;
 DMC=\$3,565.20;
 CMC=\$15,434.33

DEVIATION SURVEY @ 4457'= 3/4 degree.



Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan MicroxIn Dns Micrite Barren Cht Tan-Gry-Op Shp Vit Chalk Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan MicroxIn Dns Micrite Barren Cht Tan-Gry-Op Shp Vit Chalk Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan MicroxIn Dns Micrite Barren Cht Tan-Gry-Op Shp Vit Chalk Sh Char-Grn/Gry Fissil ? Faint Odor No Stn ? Sli Min Flor (Lt Grn & 15% of Tray) Flor NS

30" CFS @ 4571' Ls Crm FxIn Dns Micrite Grad Poor-Fair IxIn Por Grad Poor-Fair OOM Por (w/Med OOids in pl) Cht Wht-Gry (w/Fos Inklus) Op Shp Vt Chalky Pyr Mass Sh Gry-Grn/Gry Fissil ? Faint Odor Fair ? Scat Min Flor (Lt Grn & 20% of Tray) No Stn NS

60" CFS @ 4571' Ls Crm-Tan MicroxIn Dns Micrite Barren Cht Tan-Gry-Op Shp Vit Chalk Sh Char-Grn/Gry Fissil No Odor No Stn ? Sli Min Flor (Lt Grn & 5% of Tray) Flor NS

Ls Crm-Gry FxIn Dns Micrite Grad Poor-Fair IxIn Por Grad Poor OOM Por (w/Small OOids in pl) Chalk Sh Gry Fissil No Odor Fair No Flor No Stn NS

Ls Crm-Gry FxIn Dns Micrite Grad Poor-Fair IxIn Por Chalk Sh Gry Fissil No Odor Fair No Flor No Stn NS

Ls Crm-Gry FxIn Dns Micrite Grad Poor-Fair IxIn Por Chalk Sh Blk Carb-Gry Fissil No Odor Fair No Flor No Stn NS

STARK SHALE 4600' (- 1773)

Sh Blk Carb Fissil Ls AA No Odor No Stn No Flor NS

KANSAS CITY "SWOPE" (K) 4607' (-1780)

30" CFS @ 4624' Ls Crm-Tan MicroxIn Dns Micrite Cht Tan Op Shp Vit Chalk VAbd Sh Blk Carb Fissil No Odor No Stn ? Scat Min Flor (in Bright Wht Chalk) NS

60" CFS @ 4624' Ls Crm-Tan MicroxIn Dns Micrite Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu No-Poor Leaching Chalk VAbd Sh Blk Carb Fissil No Odor No Stn No Flor NS

Ls Crm-Gry MicroxIn Dns Micrite Barren Chalky Sh Gry-Blk Carb AA Fissil No Odor No Flor No Stn NS

Ls Gry MicroxIn Dns Micrite Barren Chalky Sh Gry-Blk Carb AA Fissil No Odor No Flor No Stn NS

Ls Gry-Tan-Crm MicroxIn Dns Micrite Barren Chalky Sh Gry-Blk Carb AA Fissil No Odor No Flor No Stn NS

Ls Gry-Tan-Crm MicroxIn Dns Micrite Barren Chalky Sh Gry-Blk Carb AA Fissil No Odor No Flor No Stn NS

Ls Gry-Tan-Crm MicroxIn Dns Micrite Barren Chalky Sh Gry-Blk Carb AA Fissil No Odor No Flor No Stn NS

HUSHPUCKNEY 4683' (- 1856)

Sh Blk Carb Fissil Ls Wth-Crm-Gry MicroxIn Dns Micrite cHALK No Odor No Flor No Stn NS

KANSAS CITY "HERTHA (L)" 4690' (- 1863)

Ls Wht-Crm-Tan MicroxIn Dns Micrite Barren Chalky Sh Gry-Blk Carb AA Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroxIn-FxIn Dns Micrite Grad Fair OOM Por Med Leaching Fair-Med Dissolu Barren Cht Wht Op Shp Vit Chalky Sh Gry-Blk Carb-Char Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroxIn-FxIn Dns Micrite Grad Fair OOM Por Med Leaching Fair-Med Dissolu Barren Cht Wht Op Shp Vit Chalky Sh Gry-Blk Carb-Char Fissil No Odor No Flor No Stn NS

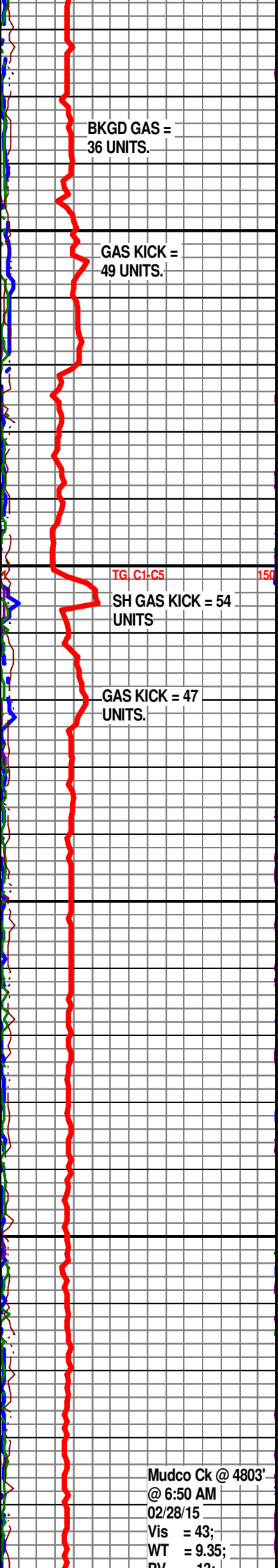
Sh Gry-Char Soft-Fissil Ls AA Chalk No Odor No Flor No Stn NS

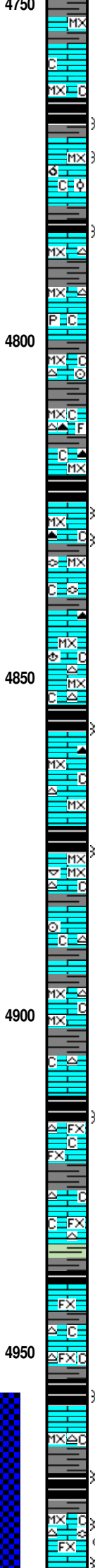
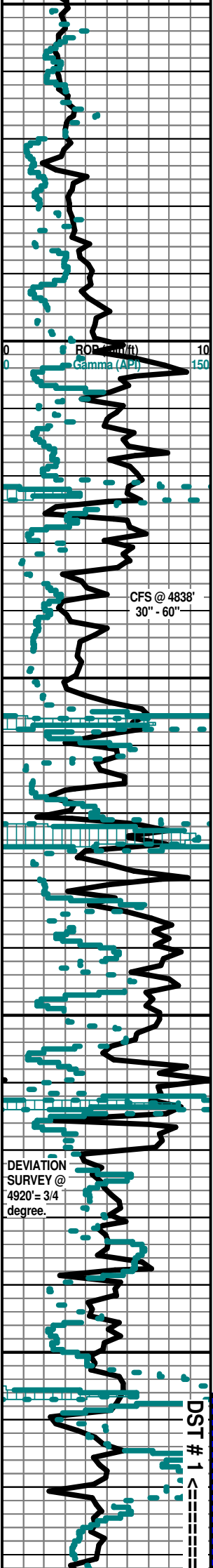
Sh Gry-Char Soft-Fissil Ls AA No Odor No Flor No Stn NS

Sh Char-Gry Fissil Ls Wht-Crm-Tan-Gry (w/Pyr Inklus) MicroxIn Poor IxIn Por Micritic Dns Barren Chalk No Odor No Flor No Stn NS

MARMATON 4740' (- 1913)

Ls Wht-Crm-Tan MicroxIn Poor IxIn Por Micritic Dns Barren Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS





Ls Wht-Crm-Tan MicroIn Poor IxIn Por Micritic Dns Barren Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroIn Poor IxIn Por Micritic Dns Barren Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn-FxIn Dns Micritic Grad Fair-Med OOM Por (w/Med-Lg OODs in pl) Med Dissolu Med-Good Leaching Chalk Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn Dns Micrite Cht Gry Op Shp Dull Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Cht Tan Op Shp Vit Pyr Mass Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Grad Poor PPT IxIn Granular Por Barren Cht Tan Translu Shp Vit Fos (Crin) Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry MicroxIn Dns Micrite Grad Poor PPT IxIn Granular Por Barren Cht Tan-Drk Gry/Brn (w/Fos Includ) Translu-Op Shp Vit Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

PAWNEE 4824' (- 1997)

30" CFS @ 4638' Ls AA Sh Blk Carb Abd Fissil Cht Drk Gry/Brn Transl-Op (w/Fos (Fuss) Includ Chalky No Odor No Stn No Flor NS

60" CFS @ 4638' Ls AA Sh Blk Carb Abd) Fissil Cht Drk Gry/Brn Transl-Op (w/Fos (Fuss) Includ Chalky No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn Dns Micrite Cht Wht-Gry Op Shp Vit Fos (Brach) Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

LABETTE 4856' (- 2029)

Ls Wht-Crm MicroxIn Dns Micrite Cht Wht-Gry Op Shp Vit Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn Dns Micrite Cht Wht-Gry-Amber Translu- Op Shp Vit Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Gry MicroxIn Dns Micrite Grad Poor PPT IxIn Granular Por Barren Cht Wht-Gry-Drk Gry Op Shp Vit Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

CHEROKEE 4871' (- 2044)

Sh Blk Carb-Char-Gry Fissil Ls Crm-Gry MicroxIn Dns Micrite Grad Poor PPT IxIn Granular Por Barren Cht Gry Translu Shp Vit Fos (Pelec) Chalk No Odor No Flor No Stn NS

Ls Crm-Gry MicroxIn Dns Micrite Cht Wht-Gry Op Shp Vit Fos (Crin) Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Gry MicroxIn Dns Micrite Cht Wht-Gry Op Shp Vit Fos (Crin) Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

Sh Char-Gry Fissil Ls Crm-Gry MicroxIn Dns Micrite Cht Wht-Gry Op Shp Vit Chalk No Odor No Flor No Stn NS

SECOND CHEROKEE SHALE 4912' (- 2085)

Ls Crm-Wht FxIn Poor IxIn Por Micritic Dns Barren Chalk Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht FxIn Poor IxIn Por Micritic Dns Barren Chalk Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Gry Fissil Abd Ls Crm-Tan-Gry FxIn Poor PPT IxIn Por Grad Dns Micrite Barren Chalk Cht-Amber-Tan Op Shp Vit No Odor No Flor No Stn NS

THIRD CHEROKEE SHALE 4953' (- 2126)

Ls Crm-Wht-Tan FxIn Poor PPT IxIn Por Grad Dns Micritic Barren Chalk Cht-Amber-Tan Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry MicroxIn Poor IxIn Por Grad Micritic Dns Barren Chalk Cht-Amber-Tan Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Drk Tan MicroxIn Dns Micrite FxIn Poor-Fair IxIn PPT Pod (w/Fos (Fuss) Includ) Friable Poor SG & Poor SO (On Break Under Heat in Wtr) (5% of Tray) Oil & Gas Do Not Flor Cht Gry Op Shp Vit Chalk Sh Blk Carb-Char Fissil ? Sli Faint Odor Sli Lt Brn Stn No Flor SSG & SSO

Ls Crm-Drk Tan FxIn Fair-Med IxIn PPT Pod (w/Fos (Fuss) Includ Abd) Friable Fair Med SG & Med Good SSG (On Break Under Heat in Wtr)

YP = 13;
 WL = 14;
 WL = 7.6;
 Cake = 1;
 Chl = 2,000;
 Cal = 20;
 Sol = 7.0%;
 LCM = 2#;
 DMC=\$3,204.43;
 CMC=\$18,638.76

? SH GAS KICK = 52 UNITS

Scale Change
 TG: C1-C5 300

SH GAS KICK= 72 UNITS.

? RECYCLE GAS KICK= 71 UNITS

Mudco Ck @ 4980' @ 11:00 AM 03/01/15
 Vis = 51;
 WT = 9.25;
 PV = 17;
 YP = 18;
 WL = 8.0;
 Cake = 1;
 SH GAS KICK= 64 UNITS,
 Cal = 40;
 Sol = 6.3%;
 LCM = 2#;
 DMC=\$ 310.20;
 CMC=\$18,948.96

SH GAS KICK= 91 UNITS,

Mudco Ck @ 5025' @ 10:55 AM 03/02/15
 Vis = 62;
 WT = 9.35;
 PV = 18;
 YP = 20;
 WL = 7.6;
 Cake = 1;
 Chl = 3,600;
 Cal = 40;
 Sol = 6.9%;
 LCM = 2#;
 DMC=\$ 163.65;
 CMC=\$19,112.61

SH GAS KICK = 75 UNITS.
 Bit Trip @ 4920'

PIPE STRAP= <1.36> LONG TO BOARD.

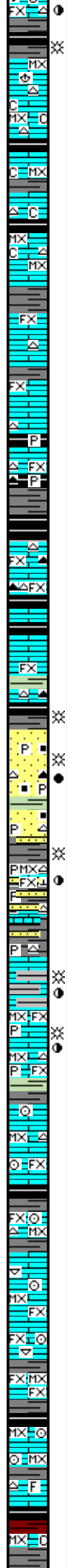
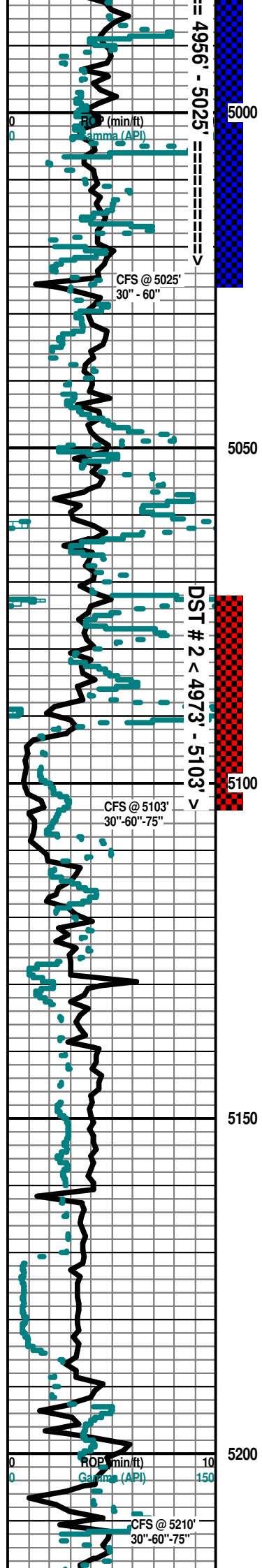
4928' CHANGEOUT EXTRACTOR FILTER & GAS TEST= 65 UNITS.

~~DST # 1~~
 Interval:
 4956'-5025'. Times:
 5"-90"-60"-90";
 Blow: IF = Very Weak/1/4". FF= No Blow/Died-Flushed Tool @ 15" & Died @ 22". No Help.

SH GAS KICK = 85 UNITS.
 Recovery: 10' M (100% M with Few Oil Spots).
 Pressures:
 IH = 2366#;
 GAS KICK_FH = 2359#;
 = 84 IF = 24-26#;

DEVIATION SURVEY @ 4920'= 3/4 degree.

DST # 1 <----->



Frangible Fair-med SG & Med-Good SFO (On Break Under Heat In WTR)
 (15% of Tray) ? Frac Por Oil & Gas Do Not Flor Cht Amber-Tan
 Translu-Op Shp Vit Chalk Sh Blk Carb-Char Fissil Med-Good Odor Brn
 Stn No Flor Fair-Med SG & SO
 Ls Crm-Tan-Gry MicroxIn Dns Micritic Barren Chalk Wht Cht-Amber-Tan
 Op Shp Vit Fos (Brach) Sh Blk Carb-Gry Fissil No Odor No Flor No Stn
 NS

FOURTH CHEROKEE SHALE 5004' (- 2177)

30" CFS @ 5025' Ls Crm-Tan MicroxIn Dns Micrite Barren Cht-Tan Op
 Shp Vit Chalk Sh Char-Gry Blk Carb Fissil No Odor No Flor No Stn NS

60" CFS @ 5025' Ls Crm-Tan MicroxIn Dns Micrite Barren Cht-Tan Op
 Shp Vit Chalk Sh Char-Gry Blk Carb Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Cht Wht Op Shp
 Vit Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Cht Wht- Amber Translu-Op Shp
 Vit Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren (w/Pyr Inclus) Cht Wht- Amber-Drk
 Gry Op Shp Vit Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

ATOKA SHALE 5054' (- 2227)

Sh Blk Carb-Char-Gry Fissil Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic
 Dns Barren Cht Wht-Amber-Drk Gry Op Shp Vit No Odor No Flor No Stn
 NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren (w/Pyr Inclus)
 Cht Wht- Amber-Drk Gry Op Shp Vit Sh Blk Carb-Char- Gry Fissil No
 Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren (w/Pyr Inclus)
 Cht Wht- Amber-Drk Gry Op Shp Vit Sh Blk Carb-Char- Gry Fissil No
 Odor No Flor No Stn NS

MORROW SHALE 5188' (-2261)

MORROW SAND 5091' (- 2264)

30" CFS @ 5103' Qtz Ss Tan-Lt Brn Small Grn Clusters Med-Good Igran Por (30% in tray)
 Ang-Sub Rd (mL = 250-350 Microns = 2.0-1.5 Ø) Clear-Lt Frosted Well Sort Lt CaCO3
 Matrix (w/Pyr Inclus & No Glacu Observed) Sli Friable (w/GSG & GSFO (Lt Brn) in tray &
 Upon Break) Sh Char (Abd) AA Pyr Mass No Flor ? Strong Odor Good (Lt Brn Stn) GSG &
 GSFO

60" & 75" CFS @ 5103' Qtz Ss Tan-Lt Brn-Drk Brn Small-Med Grn Clusters Good Igran Por
 (30% in tray) Ang-Sub Rd (mU= 350-500 Microns = 1.5-1.0 Ø) Clear-Lt Frosted Well Sort Lt
 CaCO3 Matrix (w/Carb Inclus & No Glacu Obv) Sli Friable AA (Upwardly Fineing) Cht
 Wht-Blk AA Sh AA Pyr AA No Flor Strong Odor Good (Lt Brn-Drk Brn Hvt Sat Stn) GSG &
 GSFO

MISSISSIPPIAN CHESTER 5127' (- 2299)

5130' Spl (Lag 5110') Qtz Ss Brn-Tan (w/Pyr Inclus & FSG & FSO) AA Ls Crm-Wht-Gry
 MicroxIn-FxIn Dns Micrite Grad Fair-Med IxIn Por (w/Tr Vug Leached (w/Calcite Inclus) Por
 (w/Cht Wht Translu-Op & Brn Stn Inclus (w/ ? Frac Por & FSG & FSFO)) Fos (Crin & Brach)
 Pyr Mass Sh Char-Grn/Gry- Aqua Fissil Good Odor Fair-Good Stn No Flor MSG & MSO

Sh Char-Grn/Gry-Drab Grn-Aqua Fissil Ls Wht-Crm MicroxIn-FxIn Dns Micrite AA (Abd)
 Cht Wht-Gry Translu-Op (w/ Brn Stn Inclus (w/Poor Vug Trip Por)? Frac Por & FSG &
 FSFO)) Shp Vit Qtz Ss AA (Tr Only ? Sluff) Pyr Fair Dec Odor Stn AA No Flor Sli Dec SG &
 SSO

Ls AA (Abd) Cht AA Qtz Ss (? Sluff) Fos (Crin) Pyr Mass Sh Char-
 Grn/Gry-Aqua Fissil AA (Abd) No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn-FxIn Dns Micrite Grad Poor-Fair IxIn PPt Por
 (w/Fos (AA) Inclus Abd) Barren Cht Wht Poor-Fair V Sh Char-Gry-Blk
 Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn-FxIn Dns Micrite Grad Poor-Fair IxIn PPt Por
 (w/Fos (AA) Inclus Abd) Barren Cht Wht Poor-Fair V Sh Char-Gry-Blk
 Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn-FxIn Dns Micrite Grad Poor-Fair IxIn PPt Por (w/
 Fos (Crin, Pelec) Inclus Abd) Barren Sh Char-Gry-Blk Carb Fissil No
 Odor No Stn No Flor NS

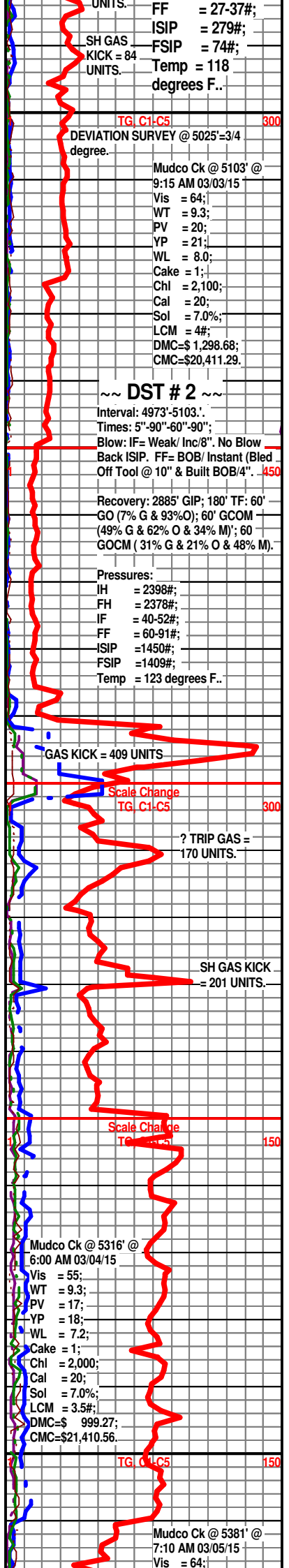
Ls Wht-Crm MicroxIn-FxIn Dns Micrite Grad Poor-Fair IxIn PPt Por (w/
 Fos (Crin, Pelec) Inclus Abd) Barren Sh Char-Gry-Blk Carb Fissil No
 Odor No Stn No Flor NS

30" CFS @ 5210' Ls Wht-Crm-Tan MicroxIn Dns Micrite (w/Pyr Inclus) Grad FxIn Poor IxIn
 PPt Por (w/Fos (Crin) Inclus) Cht Gry-Yell Translu-Op Shp Vit Chalk Sh Char-Gry-Blk Carb
 Fissil No Odor No Stn No Flor NS

60" CFS @ 5210' Ls Wht-Crm-Tan MicroxIn Dns Micrite (w/Pyr Inclus) Grad FxIn Poor IxIn
 PPt Por (w/Fos (Crin) Inclus) Cht Gry-Yell Translu-Op Shp (w/Cht Gry Translu-Op & Brn
 Stn Inclus (w/Poor Vug Trip Por)? Frac Por & FSG & FSFO)) Shp Vit Fos (Brach (?
 Composita) Crin, Trilobite) Chalk Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

75" CFS @ 5210' Ls AA Sh AA Fos AA No Odor No Stn No Odor NS

Ls Crm-Grn/Gry-Aqua FxIn Poor "Sandv Ls" (w/Small Qtz Ss Inclus)



UNITS. FF = 27-37#;
 ISIP = 279#;
 SH GAS KICK = 84 UNITS. FSIP = 74#;
 Temp = 118 degrees F..

TG, C1, C5 300
 DEVIATION SURVEY @ 5025'=3/4 degree.

Mudco Ck @ 5103' @
 9:15 AM 03/03/15
 Vis = 64;
 WT = 9.3;
 PV = 20;
 YP = 21;
 WL = 8.0;
 Cake = 1;
 Chl = 2,100;
 Cal = 20;
 Sol = 7.0%;
 LCM = 4#;
 DMC=\$ 1,298.68;
 CMC=\$20,411.29.

~ ~ DST # 2 ~ ~
 Interval: 4973'-5103'.
 Times: 5"-90"-60"-90";
 Blow: IF= Weak/ Inc8". No Blow
 Back ISIP. FF= BOB/ Instant (Bled
 Off Tool @ 10" & Built BOB/4". 450

Recovery: 2885' GiP; 180' TF: 60'
 GO (7% G & 93%O); 60' GCOM
 (49% G & 62% O & 34% M); 60'
 GOCM (31% G & 21% O & 48% M).

Pressures:
 IH = 2398#;
 FH = 2378#;
 IF = 40-52#;
 FF = 60-91#;
 ISIP =1450#;
 FSIP =1409#;
 Temp = 123 degrees F..

GAS KICK = 409 UNITS
 Scale Change TG, C1, C5 300

? TRIP GAS = 170 UNITS.

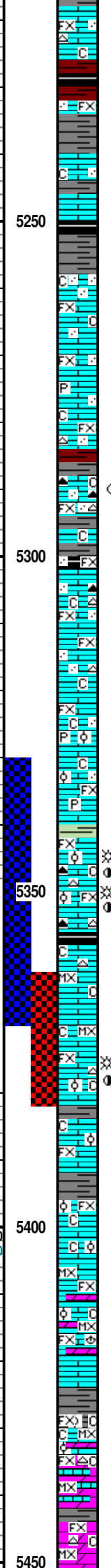
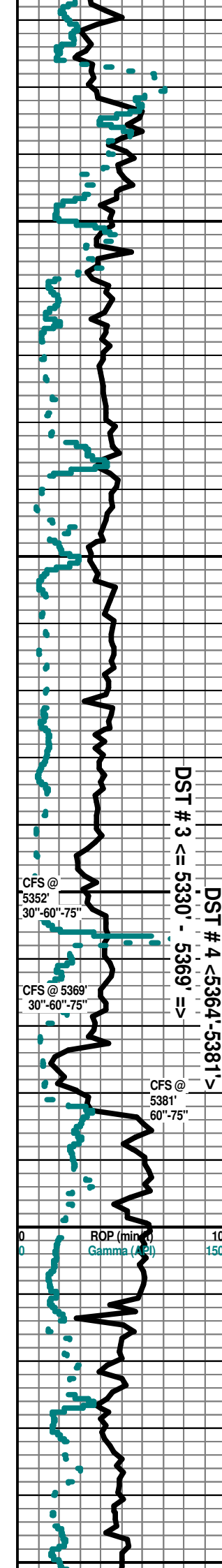
SH GAS KICK = 201 UNITS.

Scale Change TG, C1, C5 150

Mudco Ck @ 5316' @
 6:00 AM 03/04/15
 Vis = 55;
 WT = 9.3;
 PV = 17;
 YP = 18;
 WL = 7.2;
 Cake = 1;
 Chl = 2,000;
 Cal = 20;
 Sol = 7.0%;
 LCM = 3.5#;
 DMC=\$ 999.27;
 CMC=\$21,410.56.

TG, C1, C5 150

Mudco Ck @ 5381' @
 7:10 AM 03/05/15
 Vis = 64;



Ls Crm-Tan-Aqua VFGrn Ang-Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) (Tr Only - 5 Pcs in Tray) Barren Grad Micrite Fos (Brach) Chalky Pyr Mass Sh Char (w/Pyr Includ)-Blk Carb-Gry-Drab Grn Fissil No Odor No Stn No Flor NS

MISSISSIPPIAN " STE. GEN 5232' (- 2405)

Ls Crm-Grn/Gry-Tan Fxln Poor "Sandy Ls" (w/Small Qtz Ss Includ) Crm-Tan- Aqua VFGrn Ang-Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) Barren Grad Micrite Chalky Sh Red (Wash Blood Red V Abd)-Char-Blk Carb-Gry- Drab Grn Fissil No Odor No Stn No Flor NS

No Sample Caught

Ls Wht-Gry Fxln Poor "Sandy Ls" (w/Small Qtz Ss Includ) Wht-Crm-Tan VFGrn Ang-Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) Barren Grad Dns Micrite Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Poor "Sandy Ls" (w/Small Qtz Ss Includ) Wht-Crm-Tan VFGrn Ang-Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) Barren Grad Fxln Dns Micrite Chalky Sh Char-Gry-Maroon-Aqua Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry-Pink/Red Fxln Poor "Sandy Ls" (w/Small Qtz Ss Includ) Wht-Crm-Tan (w/Pyr Includ) VFGrn Ang Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) Barren Grad Fxln Dns Micrite Pyr Mass Chalky Sh Char-Gry- Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Poor "Sandy Ls" (w/Small Qtz Ss Includ) Wht-Crm-Tan VFGrn Ang-Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) Barren Grad Gry Microxln Dns Micrite Cht Peach-Lt Red/Org (w/Blk Includ) Translu-Op Shp Vit Chalky Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Gry Fxln Poor "Sandy Ls" (w/Small Qtz Ss Includ) Wht-Crm-Tan VFGrn Ang- Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) Barren Grad Dns Micrite Cht Peach-Tan-Red.Org Translu-Op Shp Vit Chalky Sh Char-Blk Carb-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Gry Fxln Poor "Sandy Ls" (w/Small Qtz Ss Includ) Wht-Crm-Tan VFGrn Ang- Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) Barren Grad Dns Micrite Cht Peach-Tan-Red.Org Translu-Op Shp Vit Chalky Sh Char-Blk Carb-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Gry Fxln Poor "Sandy Ls" (w/Small Qtz Ss Includ) Wht-Crm-Tan VFGrn Ang- Sub Ang Includ (fL=125-177 Microns= 3.0-2.25 Ø) Barren Grad Dns Micrite Cht Peach-Tan-Red Translu-Op Shp Vit Chalky Sh Char-Blk Carb-Aqua Fissil No Odor No Stn No Flor NS

MISSISSIPPIAN "ST. LOUIS" 5322' (- 2495)

Ls Wht Fxln Poor OOL Por (w/Small OOL in pl) Barren Grad Ls CrmTan-Gry Fxln Dns Micrite Chalky Sh Char-Blk Carb-Grn/Gry Aqua-Red Fissil (w/Pyr Includ) V Abd No Odor No Stn No Flor NS

Ls Wht Fxln Poor OOL Por (w/Small OOL in pl) Barren Grad Ls CrmTan-Gry Fxln Dns Micrite Chalky Sh Char - Blk Carb- Gry -Grn- Aqua- Red Fissil (w/Pyr Includ) V Abd No Odor No Stn No Flor NS

ST. LOUIS UPPER "B" Ø 5342' (- 2515)

30" CFS @ 5352' Ls Wht-Crm Fair OOL Por (w/Small-Med OOids in pl) V Friable Fair-Med InterOOL Por Fair-Med Leaching (w/Tr Lt Brn Stn in Pin-Pt InterOOL Por) SG & SFO (Gas & Oil Do Not Flor) Cht Tan-Peach/Red/Org Op Shp Vit Chalk (Tr Only) Sh Blk Carb-Aqua Fissil Faint Inc Odor No Flor SG & SO

60" & 75" CFS @ 5352' Ls Wht-Crm Fair OOL Por (w/Small-Med OOids in pl) V Friable Fair-Med InterOOL Por Fair-Med Leaching (w/Tr Lt Brn Stn in PPT InterOOL Por) SG & SFO (Gas & Oil Do Not Flor) Cht Tan-Peach-Red Translu- Op Shp Vit Chalk (Tr Only) Sh Blk Carb-Aqua Fissil Med-Good Odor No Flor SG & SO

60 & 75" CFS @ 5369' Ls Wht-Crm Microxln Dns Micrite Cht Amber-Wht-Gry Translu-Op Shp Vit Chalk (Tr Only) Sh Char-Gry-Aqua Fissil No Odor No Flor No Flor NS

ST. LOUIS LOWER "B" Ø 5374' (- 2547)

60" & 75" CFS @ 5381' Ls Wht-Crm Fxln Med-Good OOL Por (w/Med-Lg OOids in pl) V Friable Med-Good InterOOL Por Med Leaching (w/Lt Brn Stn in Pin-Pt InterOOL Por) SG & SO (Gas & Oil Do Not Flor) Cht Tan Translu-Op Shp Vit Chalky Sh Char-Aqua Fissil Strong Odor No Flor SG & SO

Ls Wht-Crm Fxln Poor Ixln Por Micritic Dns Barren Grad Poor OOL Por (w/Small OOids in pl) Barren Cht Clear-Gry Translu-Op Shp Vit Chalky Sh Blk Carb-Aqua Fissil No Odor No Stn No Flor NS

Ls Crm-Gry Fxln-Microxln Poor Ixln Por Micritic Dns Barren Grad Poor OOL Por (w/Small OOids in pl) Barren Chalky Sh Blk Carb-Char-Gry-Aqua- Maroon Soft-Fissil No Odor No Stn No Flor NS

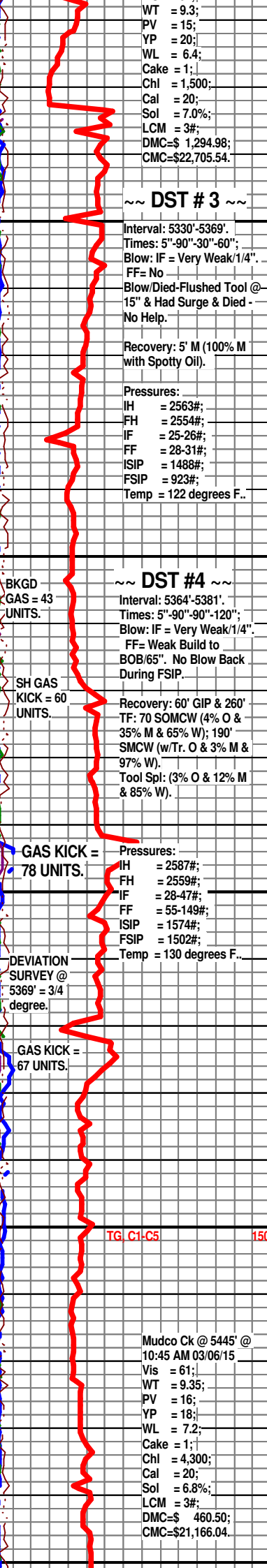
Ls/Dolo Crm-Tan Fxln-Microxln Poor Ixln Por Micritic Dns Barren Grad Poor OOL Por (w/Small OOids in pl) Barren Fos (Brach) Chalky Sh Blk Carb-Char-Gry-Aqua-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls/Dolo Crm-Tan-Lt Gry Fxln-Microxln Dns Poor Ixln Por Micritic Barren Grad Poor OOL Por (w/Small OOids in pl) Barren Chalky Sh Blk Carb-Char- Gry-Aqua Soft-Fissil No Odor No Stn No Flor NS

SALEM (SPERGEN) 5437' (- 2610)

Dolo/Ls Crm-Lt Gry Fxln-Microxln Dns Poor Ixln Por Grad Micritic Barren Grad Poor OOL Por (w/Small OOids in pl) Barren Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry- Aqua Soft-Fissil No Odor No Stn No Flor NS

Dolo/Ls Crm-Lt Gry Fxln-Microxln Dns Poor Ixln Por Grad Micritic Barren Grad Poor OOL Por (w/Small OOids in pl) Barren Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry- Aqua Soft-Fissil No Odor No Stn No Flor NS



WT = 9.3;
PV = 15;
YP = 20;
WL = 6.4;
Cake = 1;
Chl = 1,500;
Cal = 20;
Sol = 7.0%;
LCM = 3#;
DMC=\$ 1,294.98;
CMC=\$22,705.54.

~ DST # 3 ~

Interval: 5330'-5369'.
Times: 5"-90"-30"-60";
Blow: IF = Very Weak/1/4".
FF= No
Blow/Died-Flushed Tool @ 15" & Had Surge & Died - No Help.

Recovery: 5' M (100% M with Spotty Oil).

Pressures:
IH = 2563#;
FH = 2554#;
IF = 25-26#;
FF = 28-31#;
ISIP = 1488#;
FSIP = 923#;
Temp = 122 degrees F..

~ DST # 4 ~

BKGD GAS = 43 UNITS.

Interval: 5364'-5381'.
Times: 5"-90"-90"-120";
Blow: IF = Very Weak/1/4".
FF= Weak Build to BOB/65". No Blow Back During FSIP.

SH GAS KICK = 60 UNITS.

Recovery: 60' GIP & 260' TF: 70 SOMCW (4% O & 35% M & 65% W); 190' SMCW (w/Tr. O & 3% M & 97% W).
Tool Spl: (3% O & 12% M & 85% W).

GAS KICK = 78 UNITS.

Pressures:
IH = 2587#;
FH = 2559#;
IF = 28-47#;
FF = 55-149#;
ISIP = 1574#;
FSIP = 1502#;
Temp = 130 degrees F..

DEVIATION SURVEY @ 5369' = 3/4 degree.

GAS KICK = 67 UNITS.

Mudco Ck @ 5445' @ 10:45 AM 03/06/15
Vis = 61;
WT = 9.35;
PV = 16;
YP = 18;
WL = 7.2;
Cake = 1;
Chl = 4,300;
Cal = 20;
Sol = 6.8%;
LCM = 3#;
DMC=\$ 460.50;
CMC=\$21,166.04.

DST # 3 <= 5330' - 5369' =>
DST # 4 <5364'-5381'>

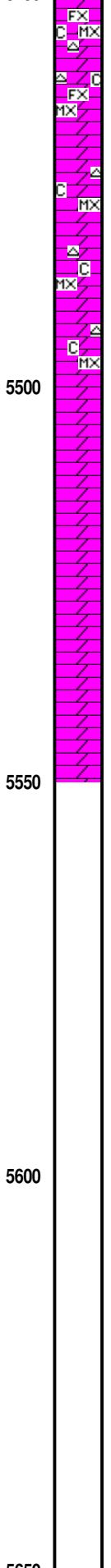
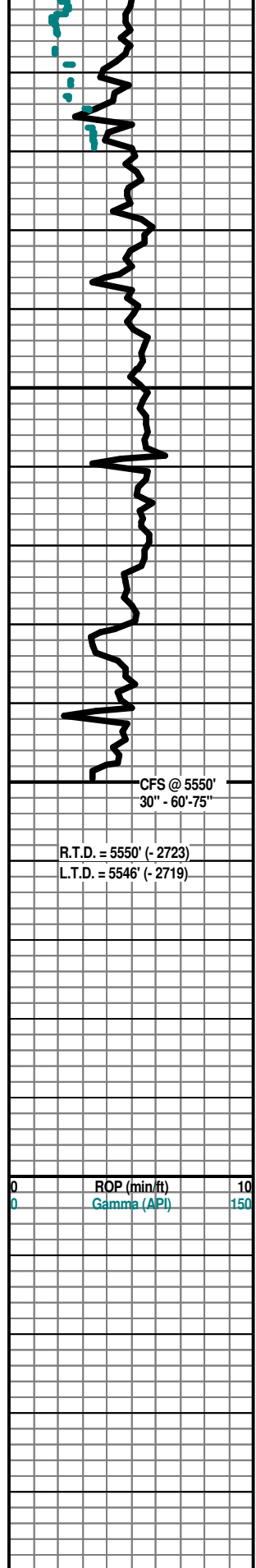
CFS @ 5352' 30"-60"-75"

CFS @ 5369' 30"-60"-75"

CFS @ 5381' 60"-75"

ROP (min) Gamma (A2L)

TG C1-C5 150



Dolo/Ls Crm-Lt Gry FxIn-MicroxIn Dns Poor IxIn Por GradMicritic Barren
Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Blk Carb- Char-Gry- Aqua
Soft-Fissil No Odor No Stn No Flor NS

Dolo Crm-Lt Gry FxIn-MicroxIn Dns Poor IxIn Por GradMicritic Barren
Cht Wht Translu-Op Shp Vit Chalky Sh Blk Carb-Char- Gry-Aqua
Soft-Fissil No Odor No Stn No Flor NS

Dolo Wht FxIn-MicroxIn Dns Poor IxIn Por Grad Micritic Barren Cht Wht
Translu-Op Shp Vit (Abd) Chalky Sh Blk Carb-Char- Gry-Aqua Soft-Fissil
No Odor No Stn No Flor NS

Dolo Wht-Crm FxIn-MicroxIn Dns Poor IxIn Por Grad Micritic Barren Cht
Wht Translu-Op Shp Vit (Abd) Chalky Sh Blk Carb- Char-Gry-Aqua
Soft-Fissil No Odor No Stn No Flor NS

Dolo Crm-Lt Gry FxIn-MicroxIn Dns Poor IxIn Por Grad Micritic Barren
Cht Wht Translu-Op Shp Vit (Abd) Chalky Sh Blk Carb- Char-Gry-Aqua
Soft-Fissil No Odor No Stn No Flor NS

Dolo Crm-Tan FxIn-MicroxIn Fair-Med IxIn PPt IxIn Por (w/Med OOids in
pl) Friable Barren Grad Dms Micrite Cht Wht-Lt Gry Translu-Op Shp Vit
Chalky Sh Char-Aqua Fissil No Odor No Stn No Flor NS

Dolo Crm-Tan FxIn-MicroxIn Fair-Med IxIn PPt IxIn Por (w/Med OOids in
pl) (Fair-Poor Leaching of OOids)Friable Barren Grad Dms Micrite Cht
Wht-Lt Gry Translu-Op Shp Vit Chalky Sh Char-Aqua Fissil No Odor No
Stn No Flor NS

Dolo Crm-Tan MicroxIn Dns Micrite Barren Cht Wht-Gry Op Shp Vit
(Abd) Chalky Sh Char-Gry Fissil No Odor No Stn No Flor NS

30" CFS @ 5550' Dolo Crm-Tan MicroxIn Dns Micrite Barren Cht
Wht-Gry Op Shp Vit (Abd) Chalky Sh Char-Gry Fissil No Odor No Stn No
Flor NS

60" & 75" CFS @ 5550' Dolo Crm-Tan MicroxIn Dns Micrite Barren Cht
Wht-Gry Op Shp Vit (Abd) Chalky Sh Char-Gry-Aqua Fissil No Odor No
Stn No Flor NS

Electric Logs Run: By Halliburton Logging:
Dual Induction; Compensated Density-Neutron; Wave Sonic;
Microlog & Cased Hole Gamma Ray-Nutron Logs.

Geologist Left Location @ 10:30 A.M. on 03/07/2015

