



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1125970
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: _____



1125970

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
--	---

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	JANTZ 2-30(SW)
Doc ID	1125970

All Electric Logs Run

MEL
DIL
BHCS
CNL/CDL

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	JANTZ 2-30(SW)
Doc ID	1125970

Tops

Name	Top	Datum
STOTLER	3537	-693
TARKIO	3588	-744
LANSING	4258	-1414
STARK	4642	-1798
MARMATON	4774	-1930
CHEROKEE	4909	-2065
MORROW SH	5130	-2286
MORROW SS	5134	-2290
ST GEN	5298	-2454
ST LOUIS	5336	-2492
SALEM	5478	-2634

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 21, 2013

CYNDE WOLF
Falcon Exploration, Inc.
125 N MARKET STE 1252
WICHITA, KS 67202-1719

Re: ACO1
API 15-069-20418-00-00
JANTZ 2-30(SW)
SW/4 Sec.30-28S-30W
Gray County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
CYNDE WOLF

ALLIED OIL & GAS SERVICES, LLC KB 052634

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberal KS

DATE <u>12-12-12</u>	SEC <u>30</u>	TWP <u>28S</u>	RANGE <u>30W.</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00</u>	JOB FINISH <u>9:00 a.m.</u>
LEASE <u>JANTS</u>	WELL # <u>2-30</u>	LOCATION <u>N.W. Copeland KS</u>			COUNTY <u>Gray</u>	STATE <u>KS.</u>	
OLD OR (NEW) (Circle one)						1.01 7.45	

CONTRACTOR <u>Sterling</u>	OWNER <u>Falcon Exploration</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1875 feet</u>
CASING SIZE <u>8 5/8 24#</u>	DEPTH <u>1869.66</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>1000 PSI</u>	MINIMUM
MEAS. LINE	SHOE JOINT <u>42</u>
CEMENT LEFT IN CSG. <u>42 feet</u>	
PERFS.	
DISPLACEMENT <u>116.4 BBLS</u>	

CEMENT		
AMOUNT ORDERED	<u>450sk "A"</u>	<u>3% CC, 2.4%</u>
	<u>Sodium Metasilicate, 2% Gyp Sol, 1/4 FS.</u>	
	<u>150sk "C" 2% CC, 1/4 sk F. Seal.</u>	
COMMON	<u>450sk "A"</u>	@ <u>17.90</u> <u>8055.00</u>
POZMIX		@
GEL		@
CHLORIDE	<u>19sk</u>	@ <u>64.00</u> <u>1,216.00</u>
ASC		@
CCP-	<u>150 "C"</u>	@ <u>24.40</u> <u>3660.00</u>
GpSI-	<u>49sk</u>	@ <u>37.60</u> <u>338.40</u>
NAMS.	<u>846 #</u>	@ <u>3.80</u> <u>3211.80</u>
FLSL	<u>113 #</u>	@ <u>2.97</u> <u>335.61</u>
		@
		@
		@
		@
HANDLING	<u>660.4 Gt</u>	@ <u>2.48</u> <u>1637.79</u>
MILEAGE	<u>1196 Tra Mi</u>	@ <u>2.60</u> <u>3109.60</u>
		TOTAL <u>21,144.20</u>

- EQUIPMENT
- PUMP TRUCK CEMENTER Ruben Chavez
 - # 531/541 HELPER Cesar Pavia
 - BULK TRUCK
 - # 472/467 DRIVER Jaime Torres
 - BULK TRUCK
 - # 562/554 DRIVER Angel Garcia

REMARKS:
Pump 10 00ls H2O spacer then mix + pump 600sk of cement and displace it with 116.4 BBLS of H2O. Pump the plug at 1050 PSI. Flow hold circulate 10 BBLS of slurry to surface. Thank you

CHARGE TO: Falcon Exploration

STREET _____

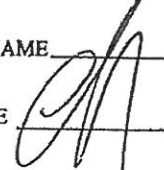
CITY _____ STATE _____ ZIP _____

SERVICE		
DEPTH OF JOB		<u>1875 feet</u>
PUMP TRUCK CHARGE		<u>2,213.75</u>
EXTRA FOOTAGE	@	
MILEAGE <u>heavy 40 Mi</u>	@ <u>7.70</u>	<u>308.00</u>
MANIFOLD + Cam head 1	@ <u>275.00</u>	<u>275.00</u>
Light Vehicle <u>40 Mi</u>	@ <u>4.40</u>	<u>176.00</u>
	@	
		TOTAL <u>2972.75</u>

PLUG & FLOAT EQUIPMENT		
<u>8 5/8</u>		
Guide Shoe 1	@ <u>460.98</u>	<u>460.98</u>
AFU Float Valve 1	@ <u>446.94</u>	<u>446.94</u>
Centralizer 3	@ <u>74.88</u>	<u>224.64</u>
Cem. Baskets 3	@ <u>559.26</u>	<u>1677.78</u>
Top Rubber Plug 1	@ <u>131.64</u>	<u>131.64</u>
		TOTAL <u>2,941.38</u>

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper (s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE 

SALES TAX (If Any) 1440.69

TOTAL CHARGES 27058.33

DISCOUNT 8117.50 IF PAID IN 30 DAYS

NET = 18,940.83



BASIC™
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer Falcon Exploration	Lease No.	Date 12-12-12
Lease Jantz	Well # 2-30	Service Receipt 03815
Casing 5 1/2" 11#	Depth 5520'	County Gray
Job Type 242-5 1/2" 2	Formation production	State KS 0
		Legal Description 30-35-30

Pipe Data		Perforating Data		Cement Data
Casing size 5 1/2" 11#	Tubing Size 5 1/8"	Shots/Ft		Lead 100 sk A Con
Depth 5517'	Depth	From	To	Tail in 25 sk AAZ
Volume D-50-136440	Volume	From	To	
Max Press 2500#	Max Press	From	To	
Well Connection TD-5520'	Annulus Vol.	From	To	
Plug Depth 51 22'	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					on 100-sk assessment
6:15					spot trucks - rig up
7:00					start case & log equip
10:00					CSG on Ben break core
10:00					finally getting RTA
10:15					pressure tested 3000#
10:30	50		13	3	slug rate & noise holes up
					50 sk A Con
11:00	100		12	3	run 500 yd sand slush
11:15	100		26	5	run and dump 50 sk A Con
					114#
11:30	100		34	5	mix to bit and 120 sk AAZ
					134.8 pp
12:00					wash lines
12:05	50		0	0	run plug disp CSG
12:40	700		125	2	slow rate
12:45	700		134	0	land plug flood well
					job complete

Service Units 10002	3711-10919	EDUW-377X1		
Driver Names A. Rivera	J. Bennett	H. King		

 Customer Representative

 Station Manager

 Cementer



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Falcon Exploration Inc.	Well Name	Jantz #2-30 (SW)
Well Operator	Falcon Exploration Inc.	Unique Well ID	DST #1 Swope 4630'-4676'
Contact	Brian Fisher	Surface Location	Sec 30-28s-30w-Gray Co.-KS
Site Contact	Dave Williams	Test Unit	#5
Field	Wildcat	Pool	Wildcat
Well Type	Vertical	Job Number	F063
Prepared By	Jake Fahrenbruch	Qualified By	Dave Williams

Test Information

Test Type	Conventional Bottom Hole	Test Purpose	Initial Test
Formation	Swope 4630'-4676'	Gauge Name	0062
Start Test Date	2012/12/05	Start Test Time	16:47:00
Final Test Date	2012/12/06	Final Test Time	03:02:00

Test Results

Recovered: 40' SOSM <1% oil, >99% mud
 ----- 80' Gas In Pipe
 ----- Tool Sample: OSM 2% oil, 98% mud

Pressures: IHP 2245
 IFP 9 - 13
 ISIP 1286
 FFP 16 - 25
 FSIP 978
 FHP 2234
 BHT: 113 deg F



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

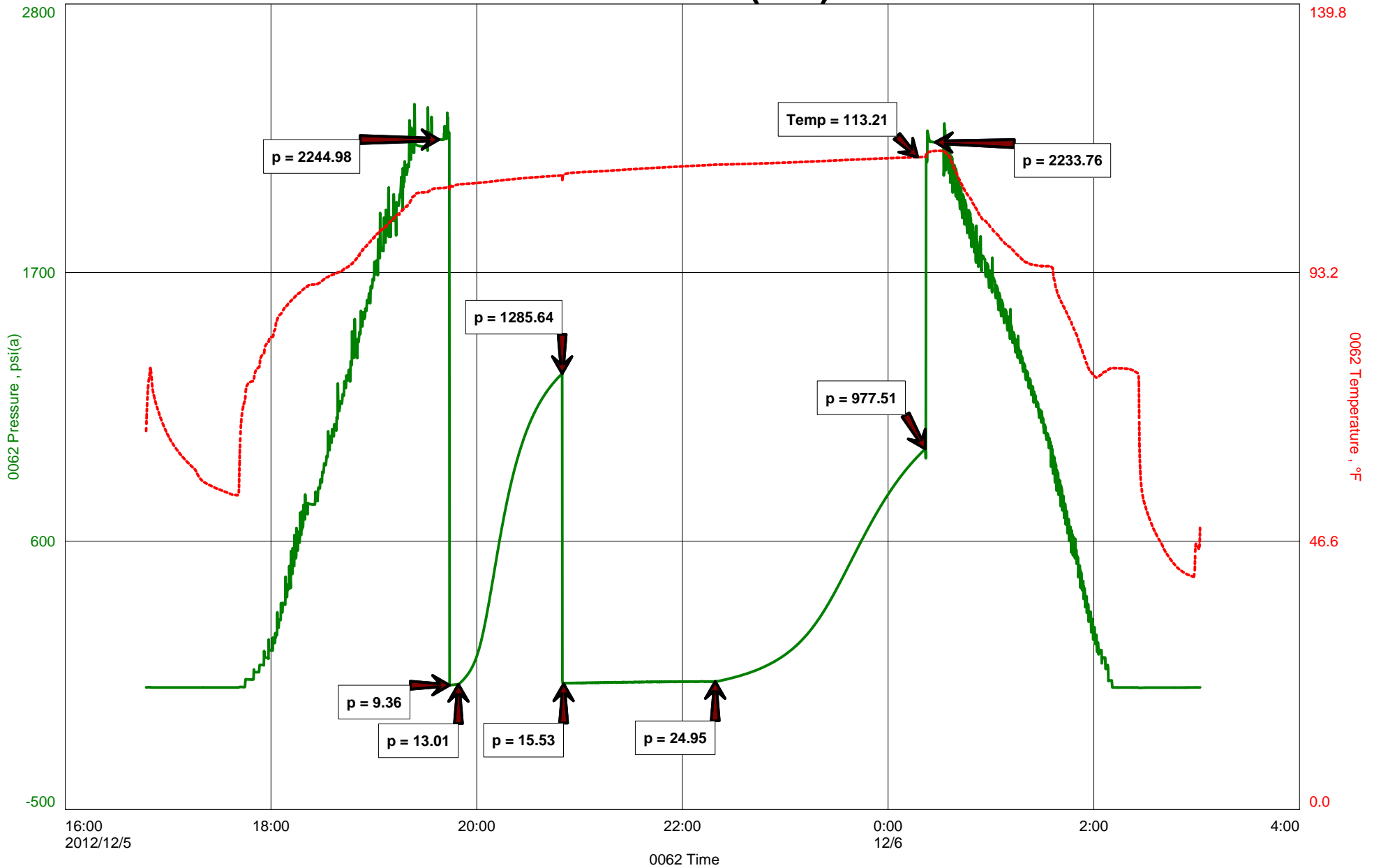
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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.

Falcon Exploration Inc.
DST #1 Swope 4630'-4676'
Start Test Date: 2012/12/05
Final Test Date: 2012/12/06

Jantz #2-30 (SW)
Formation: Swope 4630'-4676'
Pool: Wildcat
Job Number: F063

Jantz #2-30 (SW)





Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Falcon Exploration, inc.	Well Name	Jantz #2-30 (SW)
Well Operator	Falcon exploration, Inc.	Unique Well ID	DST # 2 Morrow Sand 5116'-5145'
Contact	Brian Fisher	Surface Location	Sec 30-28s-30w-Gray Co.-KS
Site Contact	Dave Williams	Test Unit	#5
Field	Wildcat	Pool	Wildcat
Well Type	Vertical	Job Number	F064
Prepared By	Jake Fahrenbruch	Qualified By	Dave Williams

Test Information

Test Type	Conventional Bottom Hole	Test Purpose	Initial Test
Formation	Morrow Sand 5116'-5145'	Gauge Name	0062
Start Test Date	2012/12/07	Start Test Time	20:31:00
Final Test Date	2012/12/08	Final Test Time	04:21:00

Test Results

Recovered: 10' Drilling Mud 100% mud

Pressures:

IHP	2446
IFP	10 - 12
ISIP	1336
FFP	13 - 19
FSIP	167
FHP	2443
BHT	117 deg F



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

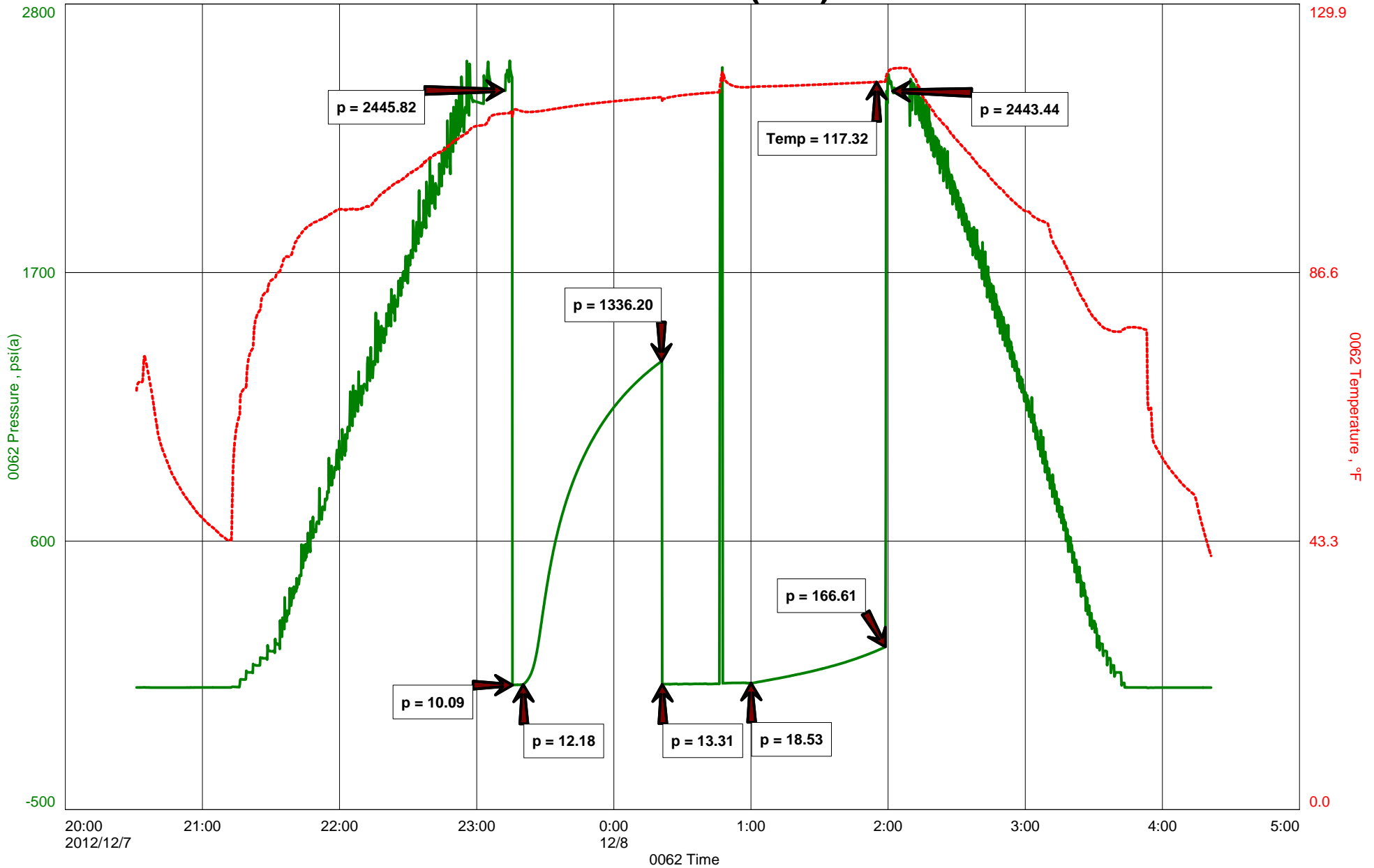
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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.

Falcon Exploration, inc.
DST # 2 Morrow Sand 5116'-5145'
Start Test Date: 2012/12/07
Final Test Date: 2012/12/08

Jantz #2-30 (SW)
Formation: Morrow Sand 5116'-5145'
Pool: Wildcat
Job Number: F064

Jantz #2-30 (SW)





Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Falcon Exploration, Inc.	Well Name	Jantz #2-30 (SW)
Well Operator	Falcon Exploration, Inc.	Unique Well ID	DST #3 Morrow SS 5128'-5190'
Contact	Brian Fisher	Surface Location	Sec 30-28s-30w-Gray Co.-KS
Site Contact	Dave Williams	Test Unit	#5
Field	Wildcat	Pool	Wildcat
Well Type	Vertical	Job Number	F065
Prepared By	Jake Fahrenbruch	Qualified By	Dave Williams

Test Information

Test Type	Conventional Bottom Hole	Test Purpose	Initial Test
Formation	Morrow SS 5128'-5190'	Gauge Name	0062
Start Test Date	2012/12/08	Start Test Time	15:01:00
Final Test Date	2012/12/08	Final Test Time	23:26:00

Test Results

Recovered: 15' Drilling Mud 100% mud
----- <45' GIP (Faint odor of gas in last stand above tool.)

Pressures:

IHP	2441
IFP	13 - 18
ISIP	739
FFP	21 - 35
FSIP	86
FHP	2438
BHT	116 DEG F



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

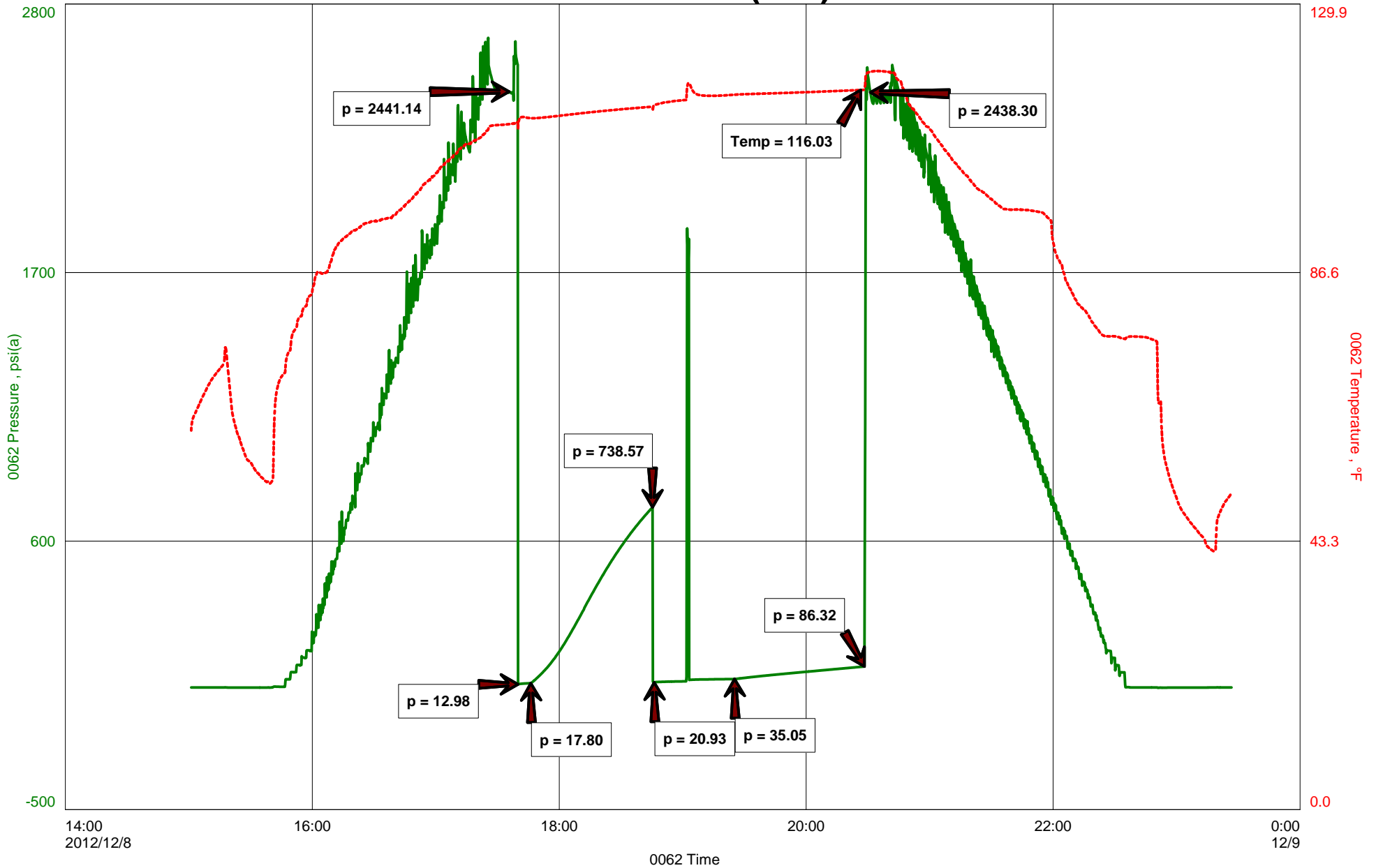
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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.

Falcon Exploration, Inc.
DST #3 Morrow SS 5128'-5190'
Start Test Date: 2012/12/08
Final Test Date: 2012/12/08

Jantz #2-30 (SW)
Formation: Morrow SS 5128'-5190'
Pool: Wildcat
Job Number: F065

Jantz #2-30 (SW)





Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Falcon Exploration Inc	Well Name	Jantz #2-30 (SW)
Well Operator	Falcon Exploration Inc	Unique Well ID	DST # 4 St Louis "Lwr B" 5366-5396
Contact	Brian Fisher	Surface Location	Sec 30-28s-30w-Gray Co.-KS
Site Contact	Dave Williams	Test Unit	#5
Field	Wildcat	Pool	Wildcat
Well Type	Vertical	Job Number	F066
Prepared By	Jake Fahrenbruch	Qualified By	Dave Williams

Test Information

Test Type	Conventional Bottom Hole	Test Purpose	Initial Test
Formation	St. Louis "Lwr B" 5366-5396	Gauge Name	0062
Start Test Date	2012/12/10	Start Test Time	01:30:00
Final Test Date	2012/12/10	Final Test Time	14:34:00

Test Results

Recovered:

10'	Clean Oil	100% oil
30'	GCOM	10% gas, 40% oil, 50% mud
60'	GC,HOCM	15% gas, 25% oil, 60% mud
60'	GC,O&WCM	16% gas, 14% oil, 14% wtr, 56% mud
----	800' Gas In Pipe	
----	160' Total Fluid Recovered	
----	Gravity: 23 (corrected to 60 deg F)	
----	Chlorides: 16,000 ppm	
----	RW: .48 ohm @ 44 deg F	

Pressures:

IHP	2579
IFP	12 - 26
ISIP	1507
FFP	35 - 83
FSIP	1469
FHP	2577

BHT: 122 deg F



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

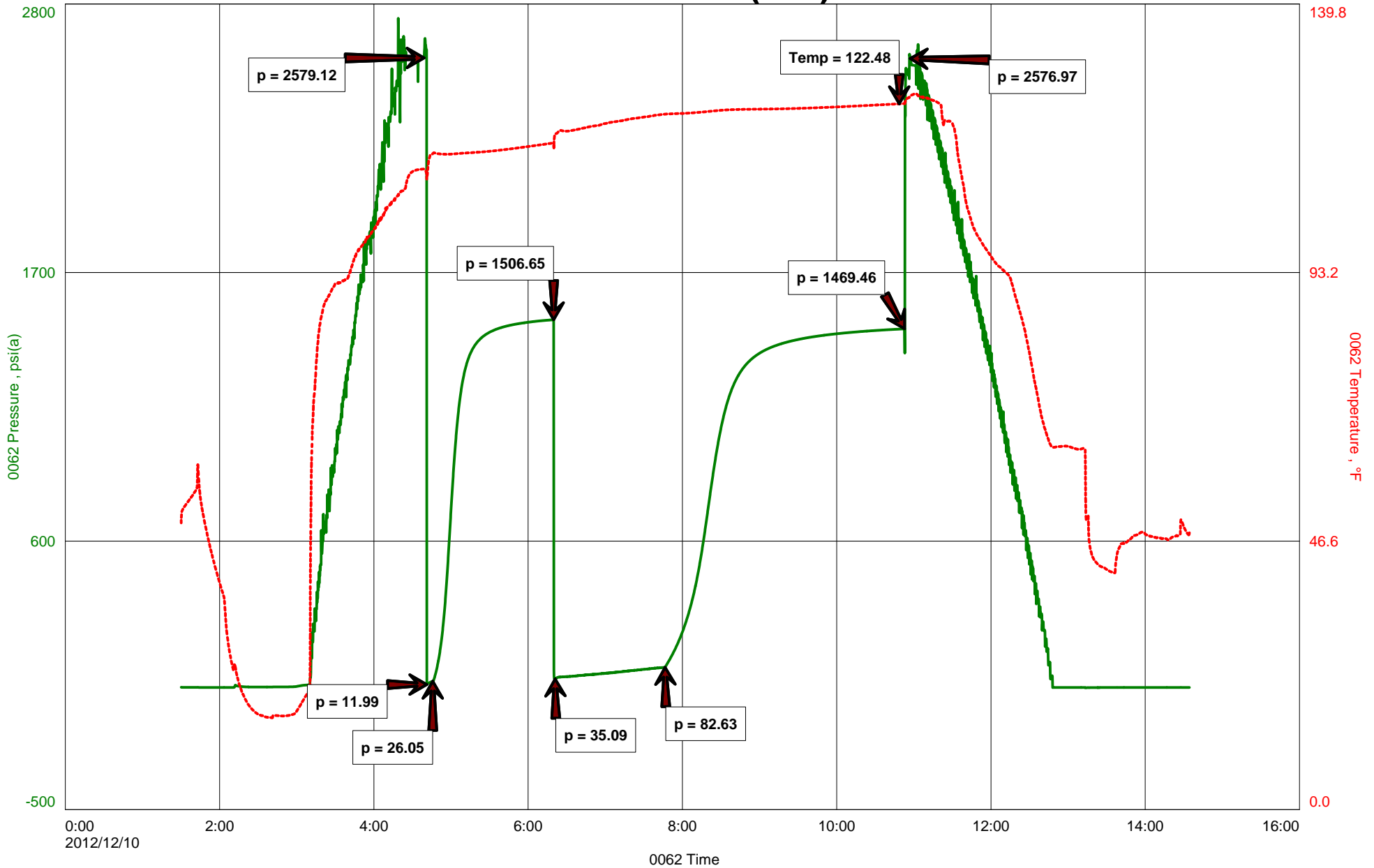
Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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.

Jantz #2-30 (SW)





**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: JANTZ #2-30(SW)
Location: S2 - NW - SW - SW 1/4 of SEC. 30 - 28 S. - 30 W.
License Number: A.P.I. # 15-069-20418-00-00
Spud Date: 11/30/2012
Surface Coordinates: 700' FSL & 330' FWL

Region: Gray Co., KS.
Drilling Completed: 12/11/2012

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2831' **K.B. Elevation (ft):** 2844'
Logged Interval (ft): SF. CSG To: 5520' **Total Depth (ft):** 5520'
Formation: MISSISSIPPIAN SALEM (SPERGEN)
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL MUD

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.
Company: DW Energy, LLC
Address: 312 North Broadview Street
Wichita, Kansas 67208

Casing & Deviation

Spud at 11:00 pm on 11/30/12. Drilled 12-1/4" to 1875'. Ran 44 joints of new 24#, 8-5/8" casing. Tallied 1851'. Set at 1870' KB . Welded straps on GS & bottom 3 joints, then tack welded all collars. Float insert in 1st collar. Centralizers (3) 1,4 & 39. Baskets (3) 1,38 & 40. Cemented with 450 sks Class A, 3% CC, 2% Salt, 2% Gyp, 1/4# FS. Tailed with 150 sks Class C; 2% CC, 1/4# FS. Cement did circulate to surface. Plug down at 9:00 AM on 12/02/12. Allied Cementing.Ticket #52634.

Deviation Survey's Taken: @ 1875' = 1 degree; @ 4676' = 2 degrees; @ 5145' = 1/4 degree; @ 5396' = 1 degree; @ 5520' = 3/4 degree.

DSTs

DST # 1 4630'-4676'. Times: 5"- 60"- 60"- 120"; Blow: IF= Weak 1/4"; FF= Weak 1/2" Building to 2". Recovery: 80' G.I.P. & 40' SOCM (< 1% O & 99% M). Tool Spl.= 2% O & 98% M. Pressures: IH = 2245#; FH=2231#; IF= 9-13#; FF= 16-25#; ISIP= 1286#; FSIP= 978#; Temp= 1135 degrees F.


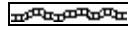
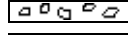
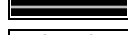
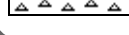
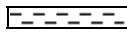









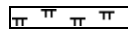

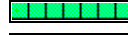
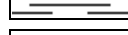
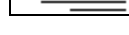
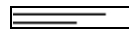



DST # 2 5116'-5145'. Times: 5"- 60"- 40"- 60"; Blow: IF= Weak 1/4"; FF= Weak 1/4" & Died (Flushed Tool) - No Help. Recovery: 10' M (100% M). Pressures: IH = 2446#; FH= 2443#; IF= 10-12#; FF= 13-19#; ISIP= 1336#; FSIP= 167#; Temp= 117 Degrees F.

DST # 3 5128'-5190'. Times: 5"- 60"- 40"- 60"; Blow: IF= Weak 1/4"; FF= Weak 1/4" & Died (Flushed Tool) - No Help. Recovery: < 45' GIP; 15' M (100% M). Pressures: IH = 2441#; FH= 2438#; IF= 13-18#; FF= 21-35#; ISIP= 739#; FSIP= 86#; Temp= 116 degrees F.











































































DST # 4 5366'-5396'. Times: 5"- 90"- 90"- 180"; Blow: IF= Weak 1/4" Inc to 1 1/2"; FF= Weak 1/4" Inc BOB/11". Recovery: 800' GIP; TF= 160': 10' CO (100% O).; 30' GCOM (10% G, 40% O, 50% M.); 60' GCHOCM (15% G, 25% O, 60% M.); 60' GCOWCM (16% G, 14% O, 14% W, 56% M.). Pressures: IH = 2579#; FH=2577#; IF=12-26#; FF= 35-83#; ISIP =1507#; FSIP =1469#; Temp =122 degrees F. CHL=16000 Ppm. RW=.48 @ 44 degrees F.

Comments



























ROCK TYPES

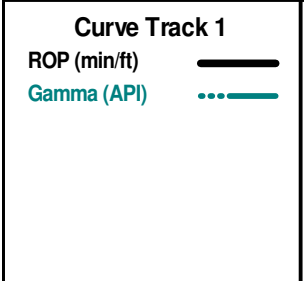
 Anhy  Bent  Brec  Carb sh  Cht	 Clyst  Coal  Congl  Dol  Grn sh	 Gry shale  Gyp  Igne  Lmst  Meta	 Mrlst  Red shale  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
--	--	---	--	---

ACCESSORIES

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau  Gyp	 Hvymin  Kaol  Marl  Minxl  Nodule  Phos  Pyr  Salt  Sltly  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  Gyp  Ls  Mrst  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 OIL SHOW  Gas show	 Even  Spotted  Ques  Dead INTERVAL  Core  Straddle test tail pipe	 Dst_alt  Dst EVENT  Rft  Sidewall
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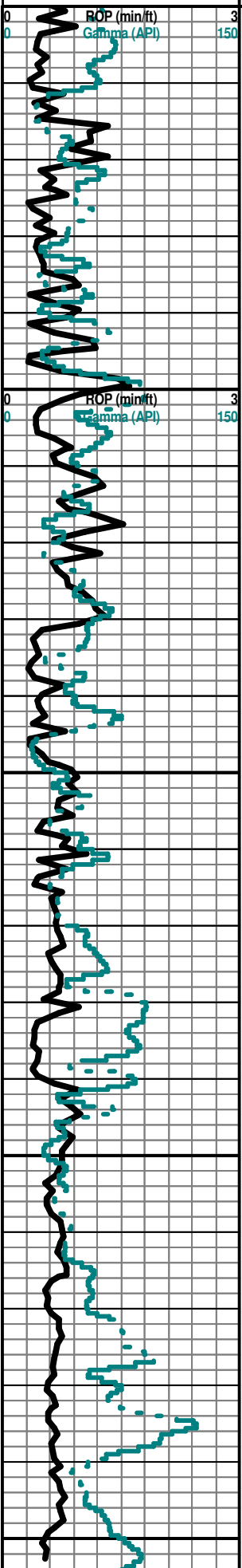
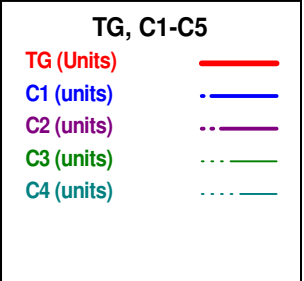


Depth

Litholog

Oil Shows

Geological Descriptions



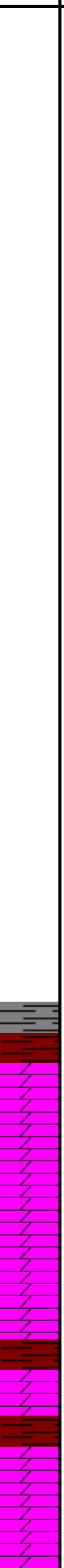
2500

2600

2650

2700

2750



FALCON EXPLORATION, INC.

JANTZ #2-30(SW)

700' FSL & 330' FWL (S2 - NW - SW - SW 1/4)

SEC. 30 - 28 S. - 30 W.

GRAY COUNTY, KANSAS

A.P.I. #15-069-20418-00-00

ELEVATION : 2844' K.B. ; 2831' G.L.

CONTRACTOR: STERLING DRILLING RIG # 5

GEOLOGIST: DAVID P. WILLIAMS, P.G.

Geologist: David P. Williams on location @ 2:45 PM 12-03-12 @ 2560'

Stone Coral Anhydrite Sample Top = 1825' (+1019); Base = 1843' (+ 1001)

Stone Coral Anhydrite E. Log Top = 1820' (+1024); Base = 1840' (+1004)

Deviation Survey's Taken: @ 1875' = 1 degree; @ 4676' = 2 degrees; @ 5145' = 1/4 degree; @ 5396' = 1 degree; @ 5520' = 3/4 degree.

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

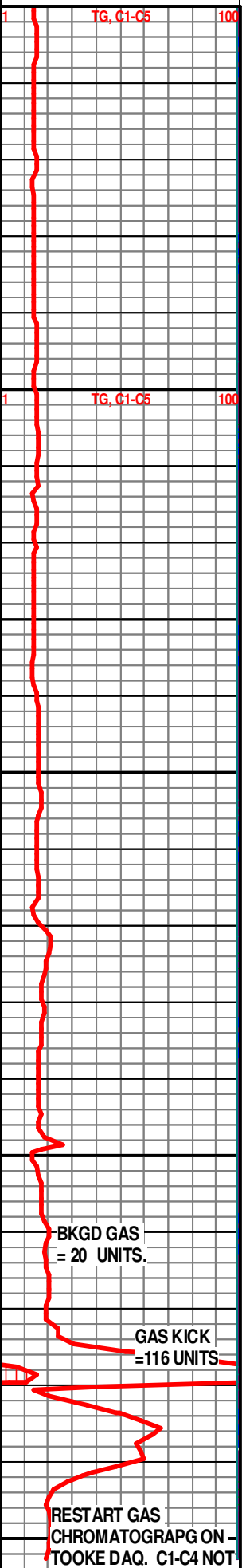
Poor Spl. Sh Red-Char V Abd Anhy/Gyp AA No Odor No Stn No Flor NS

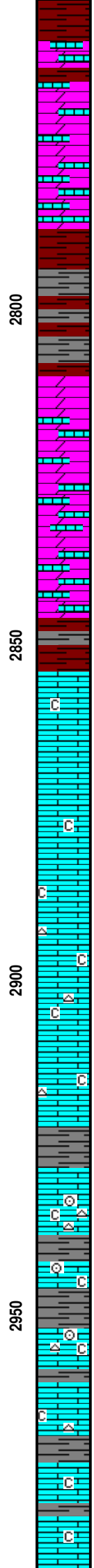
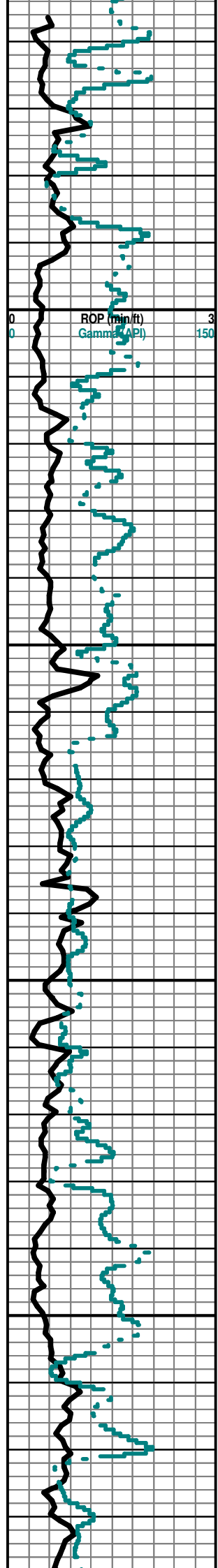
Poor Spl. Sh Red-Char V Abd Anhy/Gyp AA No Odor No Stn No Flor NS

CHASE GROUP 2688' (+ 156)

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

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





WINFIELD 2760' (+84)

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

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

2800

ROP (min/ft)
Gamma (API)

0 3
0 150

TOWANDA 2810' (+34)

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

2850

FORT RILEY 2864' (-20)

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

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

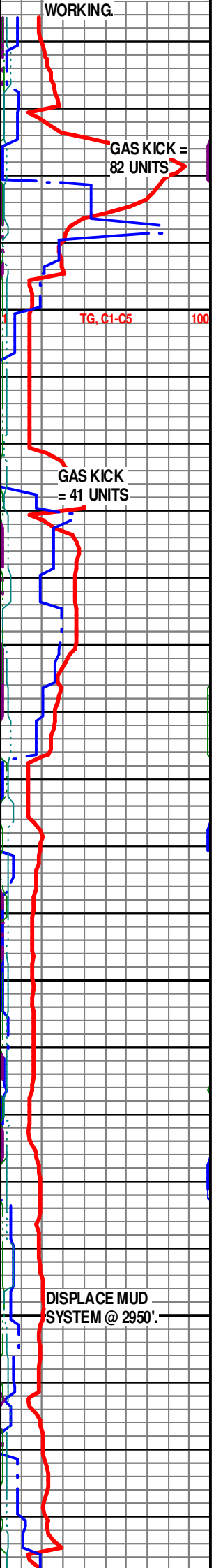
2900

Ls Cm-Gry F-MxIn Poor-Fair IxIn Por Tr Granular Grad Poor Dns Micrite Cht Gry (w/Brn Inclus) Fos (Crin) Chalky Sh Gry-Red Soft No Odor No Stn No Flor NS

2950

Ls Cm-Gry F-MxIn Poor-Fair IxIn Por Tr Granular Grad Poor Dns Micrite Cht Gry (w/Brn Inclus) Fos (Crin) Chalky Sh Gry-Red Soft No Odor No Stn No Flor NS

Ls Cm-Gry F-MxIn 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



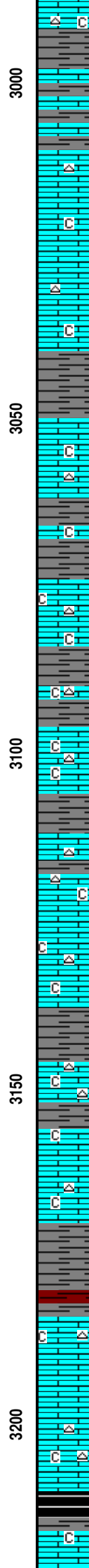
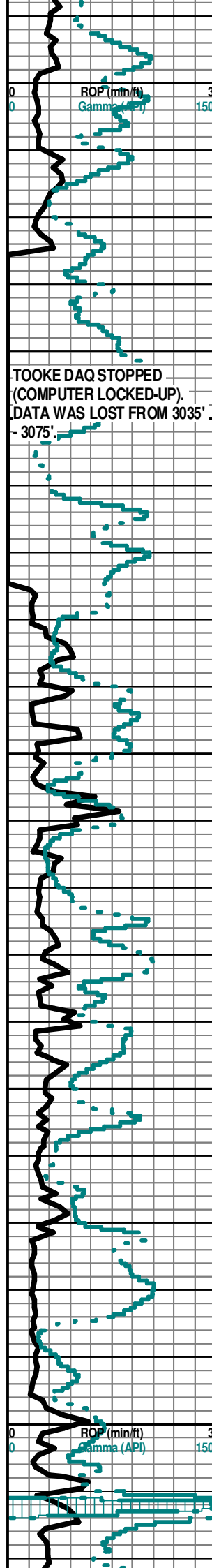
WORKING

GAS KICK = 82 UNITS

TG, C1-C5 100

GAS KICK = 41 UNITS

DISPLACE MUD SYSTEM @ 2950'



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

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

Ls Cm-Wht Fxln Poor Ixln Por Dns Micrite Cht Wht Op Shp Vit Chalky Dec Sh
Gry-Red Soft No Odor No Stn No Flor NS

Ls Cm-Wht-Gry Fxln Poor Ixln Por Dns Micrite Chalky Dec Sh Gry- Red- Maroon
Soft No Odor No Stn No Flor NS

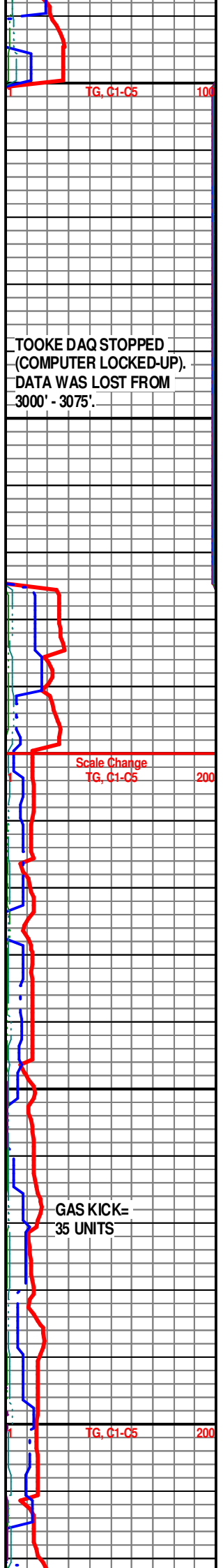
COTTONWOOD 3146' (-302)

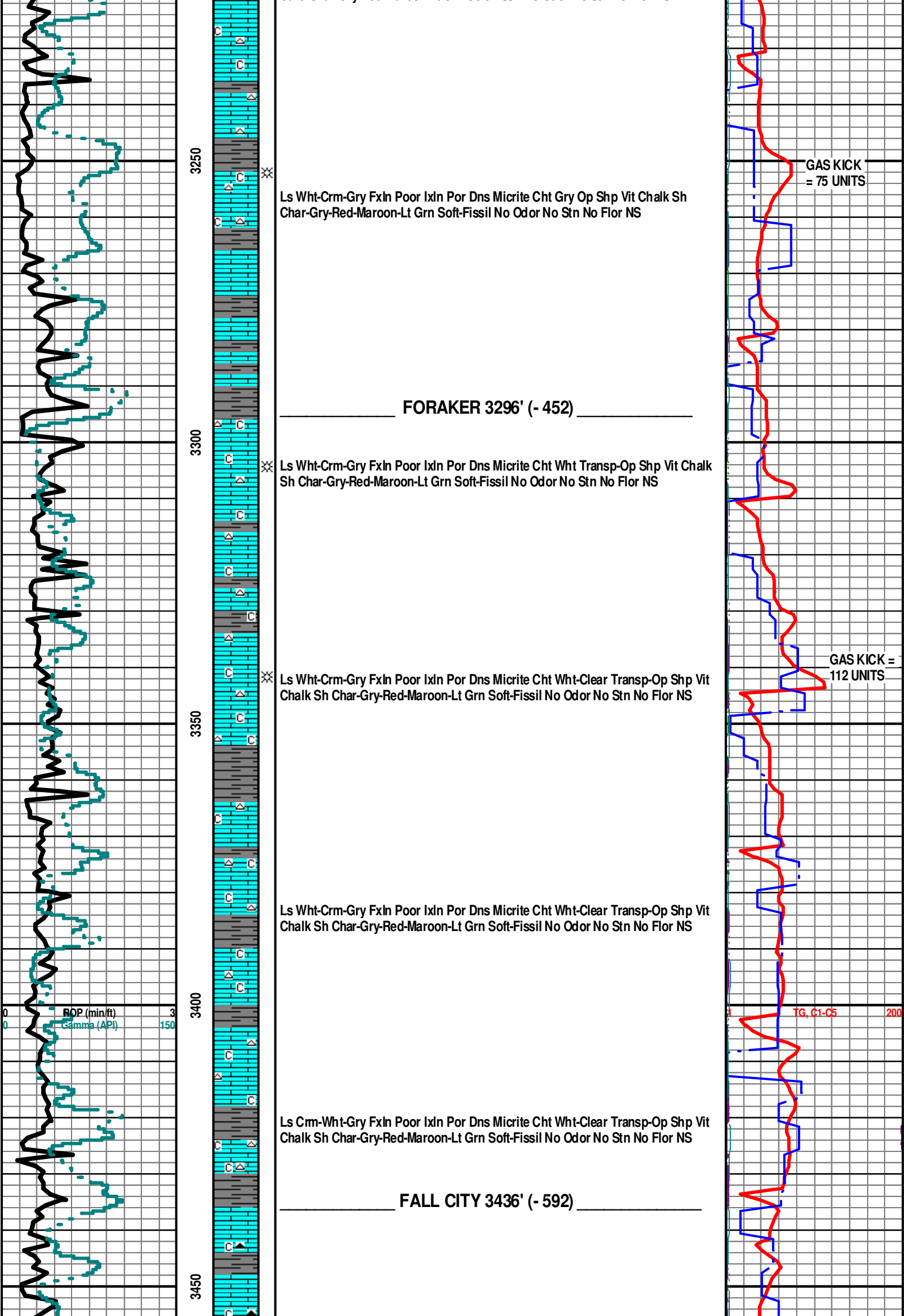
Ls Cm-Wht-Gry Fxln Poor Ixln Por Dns Micrite Cht Gry Op Shp Vit Chalky Sh
Gry-Red-Maroon Soft No Odor No Stn No Flor NS

NEVA 3184' (-340)

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

Ls Wht-Crm-Gry Fxln Poor Ixln 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





3250

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

GAS KICK = 75 UNITS

FORAKER 3296' (- 452)

3300

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

3350

Ls Wht-Crm-Gry Fxln Poor Ixln 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

GAS KICK = 112 UNITS

3400

Ls Wht-Crm-Gry Fxln Poor Ixln 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 200

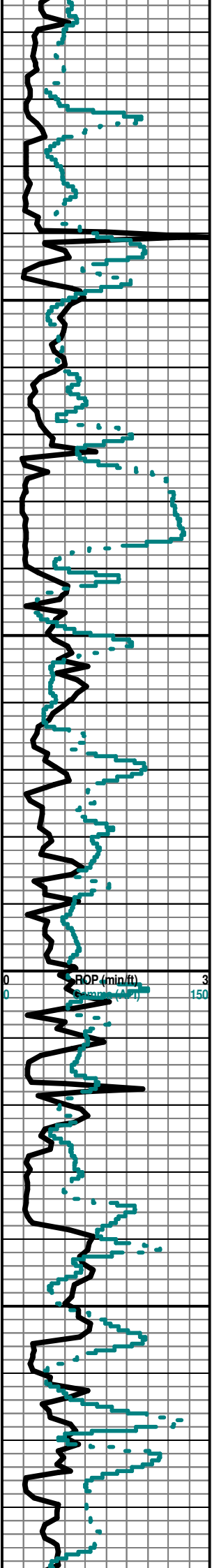
3450

Ls Cmm-Wht-Gry Fxln Poor Ixln 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

FALL CITY 3436' (- 592)

BOP (min/ft)
Gamma (API)





Ls Wht-Crm-Gry Fxln Poor Ixln 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

3500

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

ROOT SHALE 3523' (- 679)

STOTLER 3536' (- 692)

3550

Ls Wht-Crm Fxln Poor Ixln 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 Fxln Poor Ixln 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

TARKIO 3599' (- 755)

3600

Ls Wht-Crm Fxln Poor Ixln Por Dns Micrite Grad Fair Pin-Pt Ixln Por 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

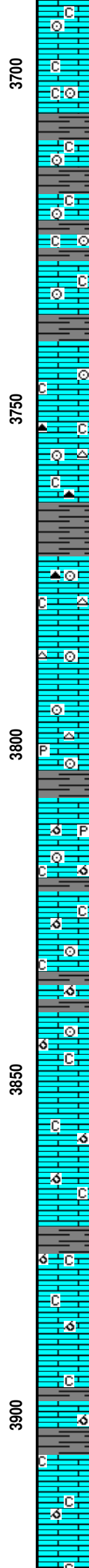
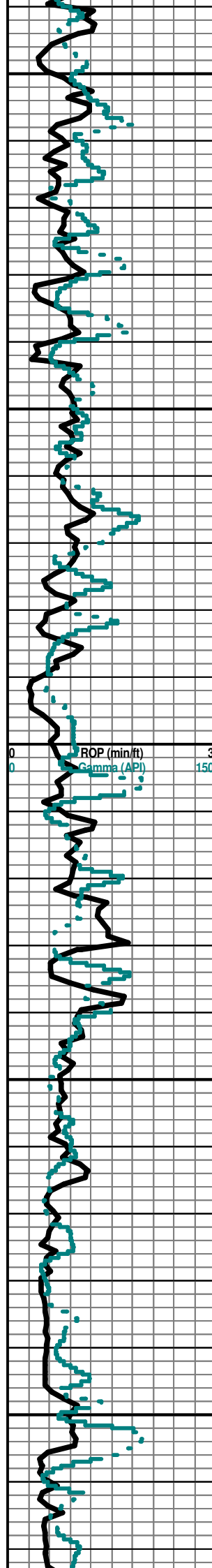
3650

Ls Wht-Crm Fxln Poor Ixln 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

BERN 3686' (- 842)

Ls Crm-Grv Fxln Poor Ixln Por Dns Micrite Grad Poor Pin-Pt Por Chalk V Abd Fos

TG, C1-C5 200



(Crin) Sh Char-Gry-Lt Grn Soft-Fissil No Odor No Stn No Flor NS

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

Ls Cmm-Gry Fxln Poor Ixln Por Dns Micrite Grad Poor Pin-Pt Por Cht Drk Gry-Lt
Gry Op Shp Vit Chalk Fos (Crin) Sh Char-Gry-Lt Grn Soft-Fissil No Odor No Stn No
Flor NS

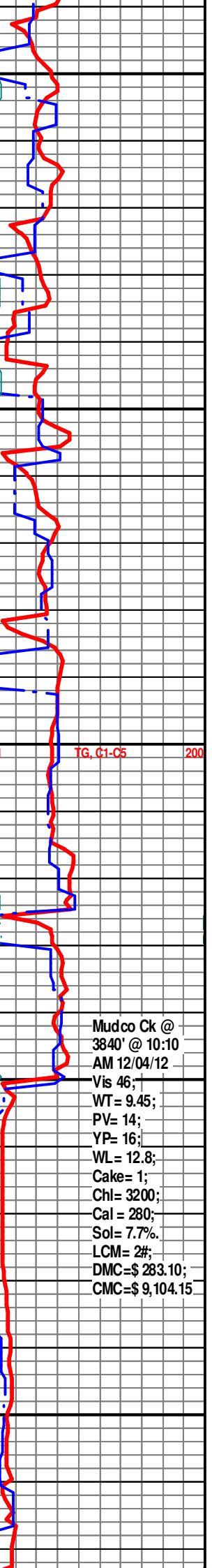
TOPEKA 3808' (- 964)

Ls Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Grad Poor OOM Por
Poor Leaching Poor-No Dussolu Chalk Wht Fos (Crin in Pyr) Sh Char-Grn Fissil
Soft No Odor No Flor No Stn NS

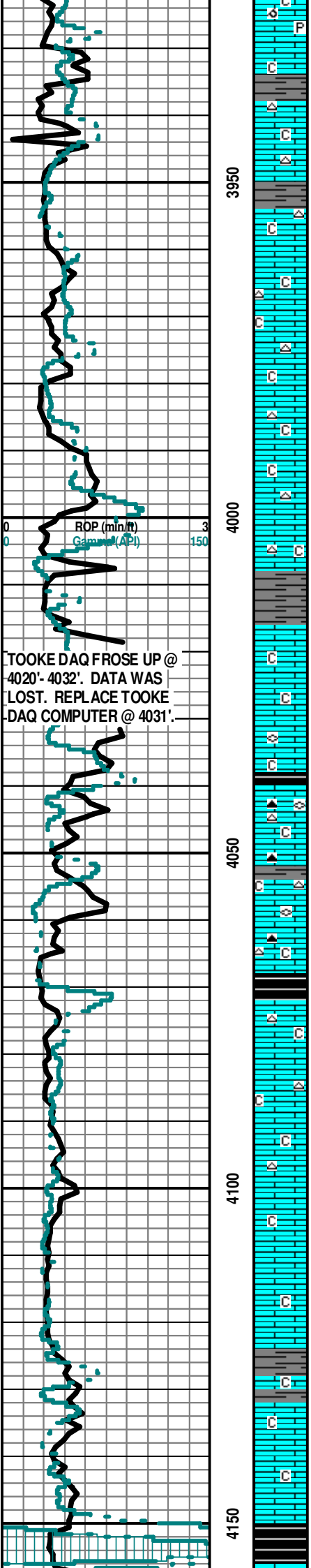
Ls Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Grad Poor OOM Por
Poor Leaching Poor-No Dussolu Chalk Wht Fos (Crin) Sh Char-Grn Fissil Soft No
Odor No Flor No Stn NS

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

Ls Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Grad Poor OOM Por



Mudco Ck @
3840' @ 10:10
AM 12/04/12
Vis 46;
WT= 9.45;
PV= 14;
YP= 16;
WL= 12.8;
Cake= 1;
Chl= 3200;
Cal = 280;
Sol= 7.7%.
LCM= 2#;
DMC=\$ 283.10;
CMC=\$ 9,104.15



Poor Leaching Poor-No Dussolu Chalk Wht Fos (Crin in Pyr) Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

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

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

LeCOMPTON 4017' (- 1173)

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

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

QUEEN HILL 4018' (- 1274)

OREAD 4022' (- 1276)

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

PLATTSMOUTH 4128' (- 1284)

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

HEEBNER 4150' (- 1306)

TOOKE DAQ CHROMATOGRAPH NOT WORKING @ 3918'

TG, C1-C5 200

TOOKE DAQ COMPUTER FROZE UP @ 3994'- 4017'. DATA LOST.

TOOKE DAQ FROZE UP @ 4020'- 4032'. DATA WAS LOST. REPLACE TOOKE DAQ COMPUTER @ 4031'.

TOOKE DAQ COMPUTER FROZE UP @ 4020'- 4032'. DATA LOST. REPLACE TOOKE DAQ COMPUTER @ 4031'.

RE-BOOT TOOKE DAQ CHROMATOGRAPH @ 4088'.

SH GAS KICK = 143 UNITS.

Sh Bk Carb- Gry-Char-Lt Grn Soft-Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad
Poor Pin-Pt Ixln Por Chalk AA No Odor No Flor No Stn NS

TORONTO 4166' (- 1322)

DOUGLAS 4194' (- 1350)

Ls Cm-Wht-Gry Fxln Dns Micrite Poor Ixln Por AA Chalk Wht Soft Abd Sh
Char-Gry-Grn Soft-Fissil No Odor No Stn No Flor NS

Ls Cm-Wht-Gry Fxln Dns Micrite Poor Ixln Por AA Chalk Wht Soft Abd Sh
Char-Gry-Grn Soft-Fissil No Odor No Stn No Flor NS

IATAN (BROWN LIME) 4250' (- 1406)

LANSING 4258' (- 1414)

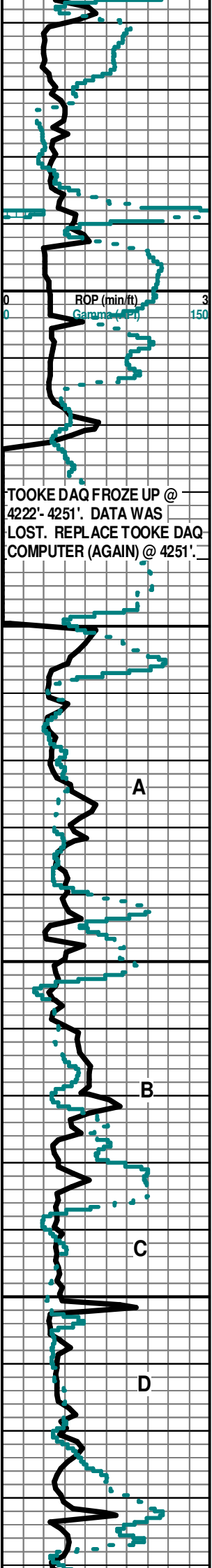
Ls Cm-Wht-Gry Fxln Dns Micrite Poor Ixln Por Chalk Wht Soft Abd Sh
Char-Gry-Grn Soft-Fissil No Odor No Stn No Flor NS

Ls Wht Microxln-Fxln Micritic Fair Stn Flor (Lt Grn-Wht of Spl through Tray 10%)
Cht Wht-Gry-Amber Translu-Op Shp Vit V Abd Chalk Wht Soft Sh Char-Gry-Grn
Fissil No Odor Fair Scat ? Min Flor ? Stn NS

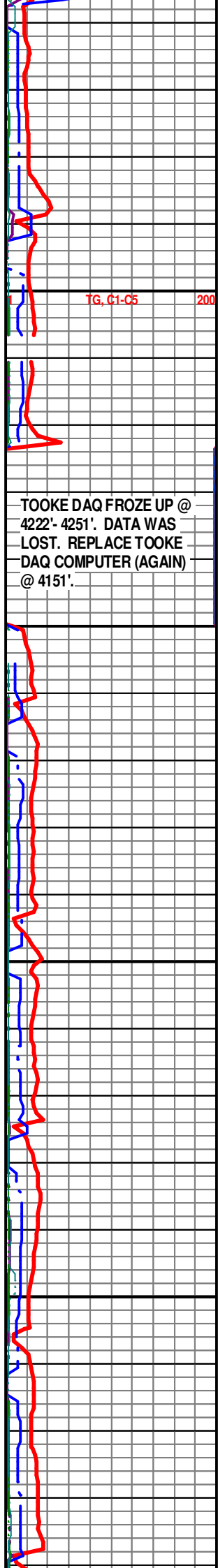
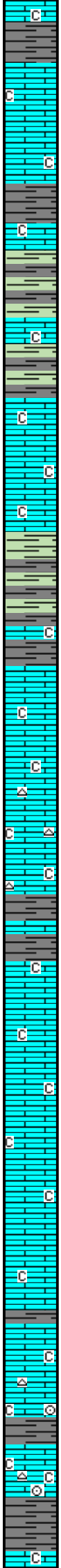
Ls Cm-Gry Microxln-Fxln Poor Ixln Por Grad Micritic Chalk Wht Soft Sh Char-Gry
Fissil No Odor No Stn ? Sli Min Flor Dec AA NS

Ls Cm-Tan-Gry Microxln-Fxln Poor Ixln Por Grad Micritic Chalk Wht Soft V Abd
Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Dec AA NS

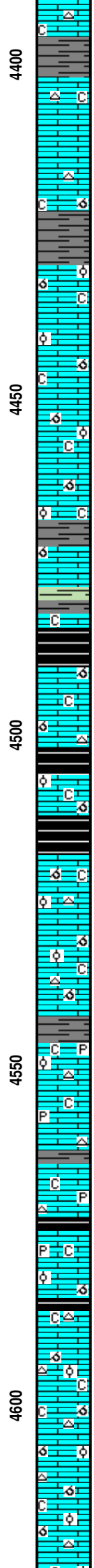
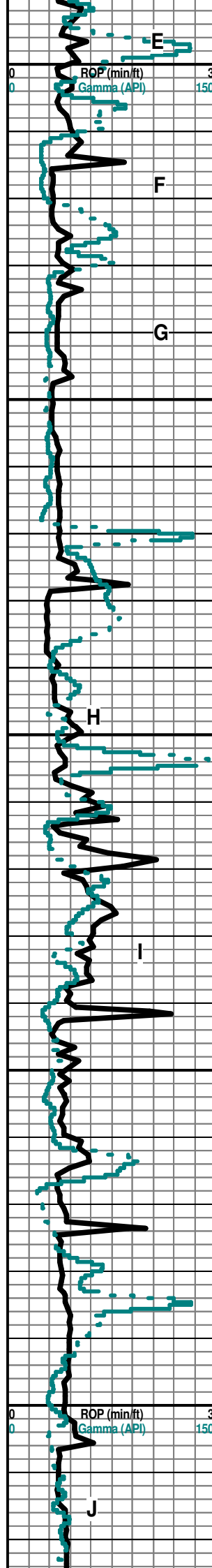
Ls Cm-Gry Microxln-Fxln Poor Ixln Por Grad Micritic Cht Tan-Gry Op Shp Vit
Chalk Wht Soft Fos (Crin) Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor No
Odor No Stn ? Sli Min NS



4200
4250
4300
4350



TG, C1-C5 200



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

Ls Wht-Crm-Tan OOM Por w/OOL (Small-Med Ooids w/Ctr's Fill w/? Drk-Gry
Calcite? Includ) in pl Poor Inter-OOM/OOL Por Poor Develop Poor Leaching (w/Pyr
Includ) Cht Wht Op Shp Vit Sh Char-Gry-Maroon Fissil No Odor No Flor No Stn NS

Ls Cm-Gry FxIn Poor IxIn Por Micritic Barren Dns (w/Pyr Includ) Chalky Sh Gry-
Grn- Aqua Fissil No Odor No Stn No Flor NS

MUNCIE CREEK 4484' (- 1640)

Ls Cm-Tan FxIn Micritic Grad Fair-Med OOM (w/OOL in pl) Por Fair Dissolu Fair
Develop Fair Leaching Barren Chalk Abd Cht Wht Op Shp Vit Sh Char-Gry-Blk
Carb Tr Fissil No Odor No Flor No Stn NS

Ls Cm-Tan FxIn Micritic Grad Fair-Med Pin-Py IxIn Por Grad Poor-Fair OOM
(w/Med-Lg OOids in pl) Por Poor-Fair Dissolu Poor-Fair Develop Poor- Fair
Leaching Barren Pyr Mass Chalk Abd Cht Wht-Drk Gry Op Shp Vit Sh Char-Gry-Blk
Carb Tr Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Micritic (w/Pyr Includ Chalk Abd Cht Wht-Drk Gry (w/ Fos Includ)
Op Shp Vit Sh Char-Gry-Grn-Blk Carb Tr Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Micritic Grad Poor OOM Por (w/Med OOids in pl) Some OOids
(Some Single & Free) Poor Dissolu Poor Develop Poor Leaching Chalk Abd Cht
Gry Op Shp Vit Sh Char-Gry-Blk Tr Carb Fissil No Odor Sli ? Min Flor No Stn NS

TG, C1-C5 200

Scale Change
TG, C1-C5 800

Mudco Ck @
4575'@ 12:00 PM
12/05/12
Vis= 49;
WT= 9.25;
PV= 15;
YP= 16;
WL= 8.8;
Cake= 1;
Chl= 2500;
Cal = 60;
Sol= 6.3%.
LCM= 2#;
DMC=\$ 4645.30;
CMC=\$ 13749.45

DST # 1 4630'-4676'. Times: 5" - 60" - 120"; Blow: IF= Weak 1/4"; FF= Weak 1/2" Building to 2". Recovery: 80' G.I.P. & 40' SOCM (< 1% O & 99% M). Tool Spl.= 2% O & 98% M. Pressures: IH= 2245#; FH=2231#; IF= 9-13#; FF= 16-25#; ISIP= 1286#; FSIP= 978#; Temp= 1135 degrees F.

STARK SHALE 4642' (- 1798)

Sh Blk Carb Fissil ? Poor-Fair Frac Por Tr Ls AA Chalk AA Faint Odor No Flor VGSG in Sh

KANSAS CITY "SWOPE" (K) 4654' (-1805)

30" CFS @ 4676' Sh Blk Carb (w/Frac Por) Abd Fissil w/Streaming VGSG (in Wtr Under Heat) Ls Wht-Crm FxIn Pin-Pt Por Poor-Fair IxIn Por Grad Fair-Med OOM Por (w/Single Med-Lg Free OOids (8-10) in pl) Med Dissolu (w/SSG) Poor-Fair InterOOM/OOL Por Leaching Chalk AA Fair Odor Sli ? Flor Stn (10% of Spl) GSSG in Sh

60" CFS @ 4676' Ls Wht-Crm Fair Med OOM Por (w/OOL in pl) Med Dissolu Poor Med Leaching (w/Single Free (6-8 Free Ooids) Chalk Faint-Fair Odor Scatt Flor Stn (10% of Spl) SSG

Start 20' Samples Taken @ 4700'

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

Ls Wht-Crm-Tan FxIn Poor-Fair OOM Por (w/OOL in pl) Poor-Fair Dissolu Poor-Fair Develop Poor-Fair Vug Leaching No Vis InterOOM Por Grad Micritic Cht Wht Op Shp Vit Chalky Sh Blk-Carb (w/SG) Grad Char-Gry-Aqua-Red Soft- Fissil No Odor No Flor No Stn NS

Ls Tan-Gry FxIn Dns Micritic Barren Grad Poor OOM Por AA Fos (Brach) Chalky Sh Blk-Carb - Gry Fissil Abd No Odor No Flor No Stn NS

Ls Tan-Gry FxIn Dns Micritic Barren Grad Poor OOM Por AA Cht Gry Op Shp Vit Chalky Sh Blk-Carb - Gry-Red-Maroon Fissil Abd No Odor No Flor No Stn NS

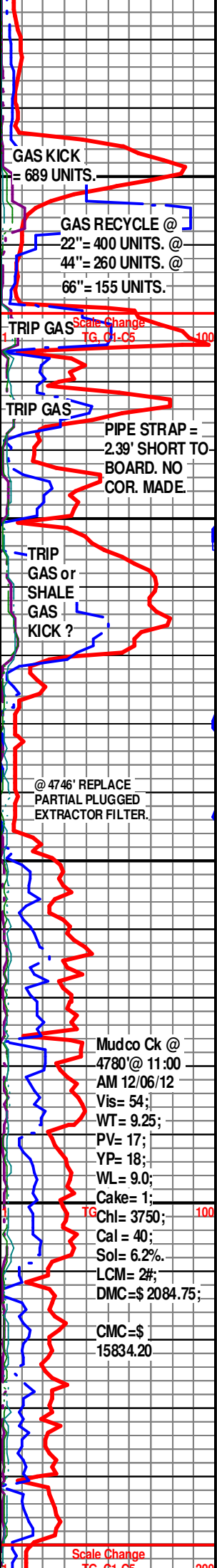
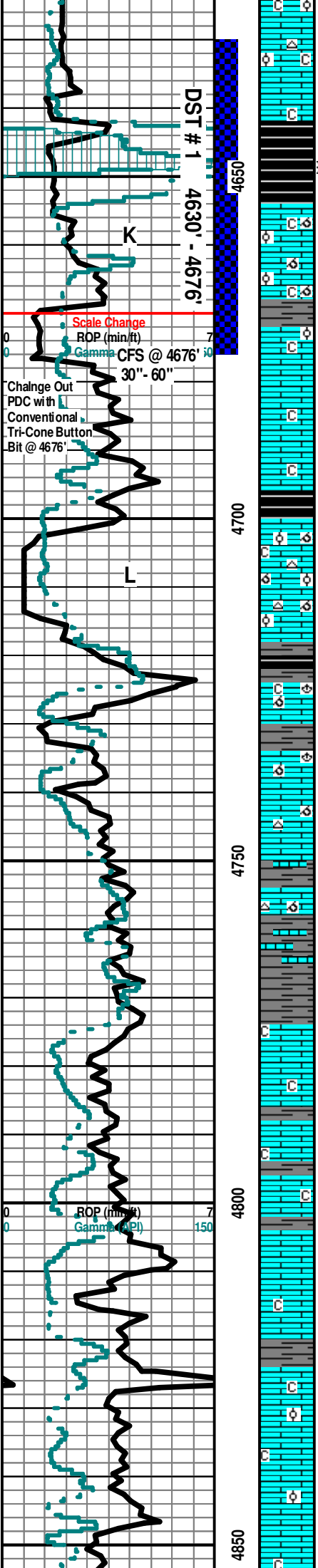
MARMATON 4774' (- 1930)

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

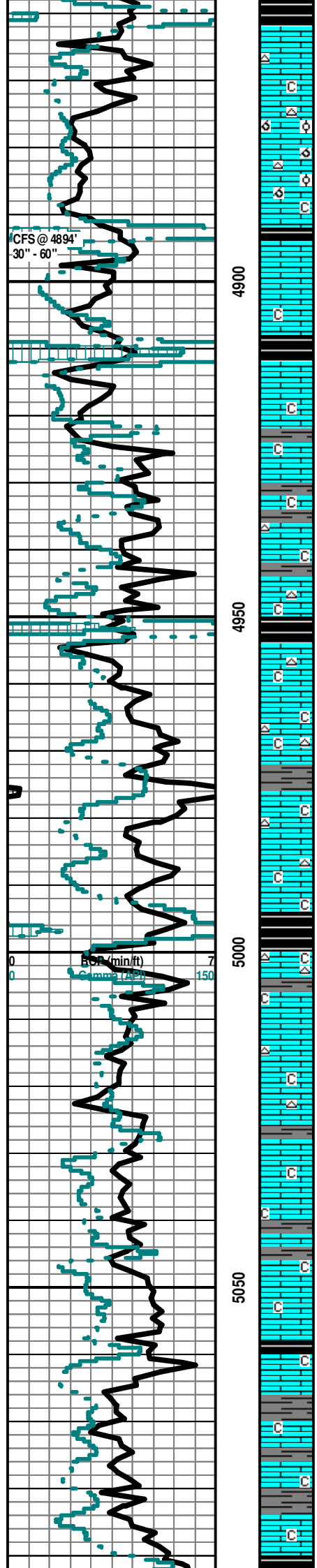
Ls Crm-Wht-Gry FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Sh Gry Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Red-Maroon Fissil Ls Gry-Crm FxIn Poor IxIn Por Micritic Dns Barren Chalky Wht Soft Abd No Odor No Flor No Stn NS

Ls Crm-Wht FxIn Poor IxIn Por Micritic Dns Barren Grad Poor-Fair OOL Por w/OOL in PI Poor Dissolu Poor-Fair Leaching Chalk Wht Soft Sh Gry Fissil No Odor No Flor No Stn NS



Mudco Ck @
4780' @ 11:00
AM 12/06/12
Vis= 54;
WT= 9.25;
PV= 17;
YP= 18;
WL= 9.0;
Cake= 1;
Chl= 3750;
Cal= 40;
Sol= 6.2%
LCM= 2#;
DMC=\$ 2084.75;
CMC=\$
15834.20



PAWNEE 4862' (- 2018)

30" CFS @ 4894' Ls Cm-Tan-Wht Fxln Poor Ixln Por Micritic Dns Barren Grad Sucrosic Good Ixln Por (1 Pc) Cht Wht-Sli Org Op Shp Vit Chalk Wht Abd Soft Sh Char-Gry-Lt Grn Fissil No Odor ? Scat Min Flor No Stn NS

60" CFS @ 4894' Ls Cm-Tan-Wht Fxln Poor Ixln Por Micritic Dns Barren Grad Med-Good OOM (Small-Med Vug) Por (w/Med sized OOids in pl) Poor InterOOM Por Fair-Med Dissolu Fair-Med Leaching (6 Pcs) Chalky Wht Soft Sh Gry-Char-Red-Maroon-Lt Aqua Soft-Fissil No Odor Flor No Stn NS

LABETTE 4892' (- 2048)

CHEROKEE 4908' (- 2064)

Ls Gry-Crm-Wht Fxln Poor Ixln Por Micritic Dns Barren Drad Poor OOM Por (w/OOL in pl) Poor InterOOM Por Poor Develop Poor Leaching Chalk Wht Soft Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Cm-Wht Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht Amber Op Shp Vit Sh Char-Gry Fissil No Odor No Flor No Stn NS

SECOND CHEROKEE SHALE 4950' (- 2106)

Ls Cm-Wht Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht - Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Cm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

THIRD CHEROKEE SHALE 4994' (- 2150)

Ls Cm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Cm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Cm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht-Wht Amber-Gry Op Shp Vit Sh Char-Gry-Tr Blk Carb Fissil No Odor No Flor No Stn NS

Ls Cm-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht Amber-Gry Op Shp Vit Sh Char-Gry-Tr Blk Carb Fissil No Odor No Flor No Stn NS

Ls Cm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht Amber-Gry Op Shp Vit Sh Char-Gry Abd Fissil No Odor No Flor No Stn NS

SHALE GAS KICK = 108 UNITS

GAS KICK = 122 UNITS

SHALE GAS KICK = 178 UNITS

Scale Change TG, C1-C5 300

SH GAS KICK = 258 UNITS

SH GAS KICK = 178 UNITS

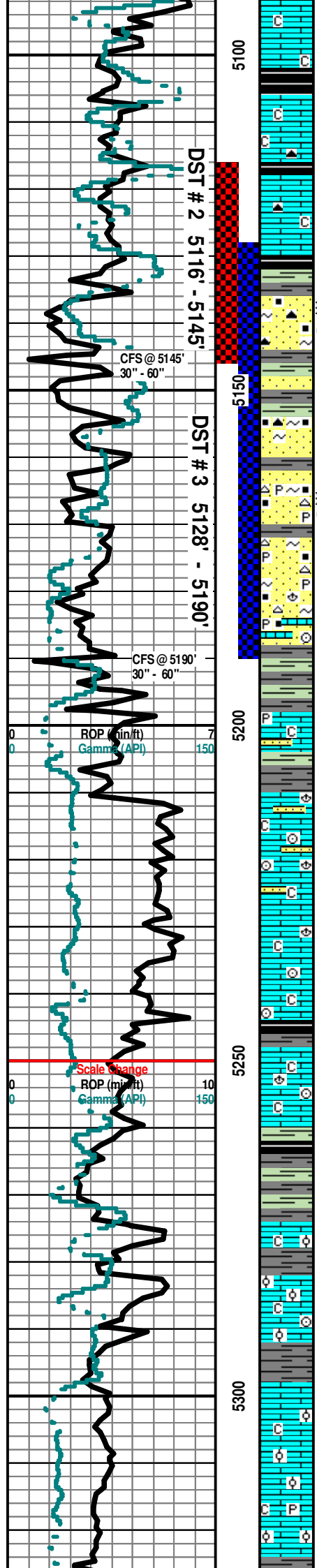
@ 4989' REPLACE EXTRACTOR FILTER .

SH GAS KICK = 126 UNITS

TG, C1-C5 300

REZERO TOOKE DAQ @ 5050' LAG DEPTH. BKGD GAS = 12 UNITS.

Mudco Ck @ 5145' @ 2:45 PM 12/07/12
 Vis= 55;
 WT= 9.2
 PV= 15;
 YP= 15;
 WL= 10.8;
 Cake= 1;
 Cht= 4100;
 Cal = 40;
 Sol= 6.2%
 LCM= 2#;
 DMC=\$ 2195.55;
 CMC=\$ 18029.75



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

DST # 2 5116'-5145'. Times: 5"- 60"- 40"- 60"; Blow: IF= Weak 1/4"; FF= Weak 1/4" & Died (Flushed Tool)-No Help. Recovery: 10' M (100% M). Pressures: IH = 2446#; FH= 2443#; IF= 10-12#; FF= 13-19#; ISIP= 1336#; FSIP= 167#; Temp= 117 degrees F.

DST # 3 5128'-5190'. Times: 5"- 60"- 40"- 60"; Blow: IF= Weak 1/4"; FF= Weak 1/4" & Died (Flushed Tool)-No Help. Recovery: < 45' GIP; 15' M (100% M). Pressures: IH = 2441#; FH= 2438#; IF= 13-18#; FF= 21-35#; ISIP= 739#; FSIP= 86#; Temp= 116 degrees F.

MORROW SHALE 5130' (- 2286)

AT 5140' START 10' SAMPLES.

MORROW SAND 5135' (- 2291)

30" CFS @ 5145' Qts Ss Brn F-M Grn Sub Ang Clusters F -Igran Por Well-Sort Friable (w/Glacu & Lt Org Cht Inclu) Lt Cmt (CaCO3 Matrix) GSG/GSO Faint Odor Lt-Med Brn Stn Gas & Oil Do Not Flor Cht Amber Op Shp Vit Ls AA (w/Fos (Brach) Sh Blk Carb- Char-Gry-Lt Grn Fissil GSG/GSO in Qtz Ss

60" CFS @ 5145' Qts Ss Brn F-M Grn Sub Ang Clusters F -Igran Por Well-Sort Friable Inc (w/Glacu & Carb Inclu) Lt Cmt CaCO3 Matrix GSG / GSO Fair Inc Odor Lt-Med Brn Stn Gas & Oil Do Not Flor Cht AA Sh AA GSG/GSO in Qtz Ss

2ND MORROW SAND 5155' (- 2311)

Qts Ss Lt Brn F-M Grn Sub Ang Clusters F-Igran Por Well-Sort V Friable (w/Glacu & Carb Inclu) Lt Cmt CaCO3 Matrix No Odor Sli Brn Stn SSG & SSO AA

3RD MORROW SAND 5162' (- 2318)

Qts Ss Lt Brn F-M Grn Sub Ang Clusters F-Igran Por Well-Sort V Friable (w/Glacu & Carb & Gil Idonitic & Pyr Inclu) Lt Cmt CaCO3 Matrix No Odor Sli Brn Stn Cht Wht Sh Varicolored Char-Gry-Aqua-Lt Grn-Red SSG/SSO in Qtz Ss Brn AA Dec Show

Qts Ss Brn-Gry F-M Grn Sub Ang Clusters F-Igran Por Well-Sort V Friable (w/Glacu & Carb & Gil Idonitic & Pyr Inclu) Lt Cmt CaCO3 Matrix Grad Dns Inc Cmt) No Odor Sli Brn Stn Cht Wht Sh Varicolored Char-Gry-Aqua-Lt Grn-Red SSG/SSO in Qtz Ss Brn AA Dec Show

30" CFS @ 5190' Qts Ss Wht-Gry-Brn F-M Grn Sub Ang Clusters F-Igran Por Well-Sort V Friable (w/Glacu & Carb & Gil Idonitic & Pyr Inclu) Lt Cmt CaCO3 Matrix Fos (Brach) No Odor Sli Brn Stn Cht Tan AA Sh Varicolored Char-Gry-Aqua-Lt Grn-Red SSG/SSO in Qtz Ss Brn AA Dec Show

60" CFS @ 5190' Qts Ss Wht-Gry-Brn F-M Grn Sub Ang Clusters F-Igran Por Well-Sort V Friable (w/Glacu & Carb & Gil Idonitic & Pyr Inclu) Lt Cmt CaCO3 Matrix Fos (Crin) No Odor Sli Brn Stn (5 Pcs) Grad Wht Cht AA Ls Wht FxIn Dns Micrite Sh AA VSSG/VSSO in Qtz Ss Brn AA Dec Show

Ls Wht -FxIn Dns Micrite Grad Fos (Brach & Fos Inclusion) Pyr Mass Chalk Sh Char-Gry-Grn-Blk Carb Fissil Dec (Tr Only) No Odor No Flor NS in LS Qtz Ss AA w/ SG & SO (? Sluff) AA

Ls Wht -FxIn Dns Micrite Grad Fos (Brach & Fos Inclusion) Pyr Mass Chalk Sh Char-Gry-Grn-Blk Carb Fissil Dec (Tr Only) No Odor No Flor NS in LS Qtz Ss AA w/ SG & SO (? Sluff) AA

CHESTERIAN 5211' (- 2367)

Ls Wht -FxIn Dns Micrite Grad Fos (Brach & Fos Inclusion) Pyr Mass Chalk Sh Char-Gry-Grn-Blk Carb Fissil No Odor No Flor NS

LS AA Fos (Brach, Crin) Qtz Ss Wht AA Por V Friable Gillsonitic "Dead Oil" Residue No Odor Tr Lt Brn-Blk Stn No Flour SSG & SSO

Ls Wht-FxIn Dns Micrite Grad Chalk Fos (Brach, Crin) Sh Char- Gry- Grn- Blk Carb Fissil No Odor No Flor NS

Ls Wht-FxIn Dns Micrite (w/Pyr Inclu) Chalk Fos (Crin) Sh Char- Gry- Grn- Blk Carb Fissil No Odor No Flor NS

Ls Wht-FxIn Dns Micrite Grad Chalk Fos (Brach, Crin) Sh Char- Gry- Grn- Blk Carb Fissil No Odor No Flor NS

Sh Char-Blk Carb-Gry-Grn-Aqua-Red-Maroon Fissil Ls Wht FxIn Crm-Tan Dns Micrite Barren Chalky Sh Char-Gry-Grn Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Ls CrmTan-Gry FxIn Dns Micrite Chalky Sh Char-Blk Carb-Gry-Grn-Aqua-Red-Maroon Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Ls CrmTan-Gry FxIn Dns Fos (Brach) Micrite Chalky Sh Char-Blk Carb-Gry-Grn-Aqua-Red-Maroon Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Ls CrmTan-Gry FxIn Dns Micrite Chalky Sh Char-Blk Carb-Gry-Grn-Aqua-Red-Yell Fissil No Odor No Stn No Flor NS

MISSISSIPPIAN "Ste. GEN" 5298' (- 2454)

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

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

MISSISSIPPIAN "ST. LOUIS" 5340' (- 2496)

Mudco Ck @ 5165' @ 8:45 AM
12/08/12
Vis= 49;
WT= 9.0;
PV= 16;
YP= 17;
WL= 8.0;
Cake= 1;
Chl= 5650;
Cal= 20;
Sol= 4.7%
LCM= 3#;
DMC=\$ 484.20;
CMC=\$ 18513.95

GAS KICK = 210 UNITS

RECYCLE GAS KICK = 250 UNITS.

Scale Change TG, C1-C5 200
GAS KICK= 71 UNITS.

GAS KICK= 98 UNITS

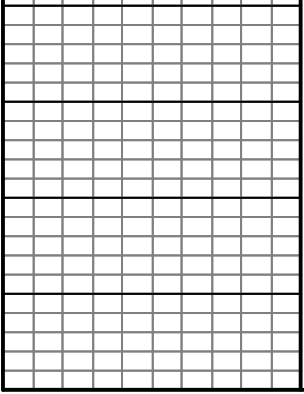
GAS KICK= 95 UNITS

GAS KICK= 100 UNITS

TG, C1-C5 200

GAS KICK= 81 UNITS

Mudco Ck @ 5321' @ 12:45 PM
12/09/12
Vis= 63;
WT= 9.25;
PV= 17;
YP= 21;
WL= 9.5;
Cake= 1;
Chl= 4000;
Cal= 180;
Sol= 6.2%
LCM= 2#;
DMC=\$ 1431.95;
CMC=\$ 19945.90



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