



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1081481
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: _____

1081481

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	ALLEN ISAAC 1-24(NW)
Doc ID	1081481

All Electric Logs Run

DIL
MEL
CNL/CDL
BHCS

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	ALLEN ISAAC 1-24(NW)
Doc ID	1081481

Tops

Name	Top	Datum
STOTLER	3502	-700
TARKIO	3578	-776
LANSING	4218	-1416
STARK	4569	-1767
PAWNEE	4812	-2010
CHEROKEE SH	4856	-2054
MORROW SH	5048	-2246
MISS ST GEN	5102	-2300
ST LOUIS B POR	5210	-2408
SALEM	5399	-2597

ALLIED OIL & GAS SERVICES, LLC 053360

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Liberal KS.

DATE <u>1-30-12</u>	SEC. <u>24</u>	TWP. <u>28S</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30pm</u>	JOB FINISH <u>4:30pm</u>
LEASE <u>Allen Isaac</u>	WELL# <u>1-24NW</u>		LOCATION <u>Vec Copland K.S.</u>		COUNTY <u>Craig</u>	STATE <u>KS.</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)			Fast to CR to Nacita 2 miles E into				

CONTRACTOR Val Rig # 7
 TYPE OF JOB Surface
 HOLE SIZE 17 1/4 T.D. 1840
 CASING SIZE 8 5/8 24" ID DEPTH 1839
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1000 MINIMUM 500
 MEAS. LINE _____ SHOE JOINT 40.90
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 115 Disp

OWNER _____
 CEMENT AMOUNT ORDERED 675 SK 65/35/6%
gel 3% CC 1/4" # Floeal
150 SK Class A 3% CC 7" gel
 COMMON 150 @ 16.25 2437.50
 POZMIX _____ @ _____
 GEL 3 @ 21.25 63.75
 CHLORIDE 27 @ 58.20 1571.40
 ASC _____ @ _____
 Light Weight 675 @ 15.00 10125.00
 Floeal 169 @ 2.70 456.30
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 855 @ 2.25 1923.00
 MILEAGE _____ 4702.50
 TOTAL 21279.45

EQUIPMENT
 PUMP TRUCK CEMENTER Kenny Boers
#470-484 HELPER Joe
 BULK TRUCK
#457-251 DRIVER Kenny + Jeremiah
 BULK TRUCK
#472-467 DRIVER Angel

REMARKS:

Circulated Cement.

THANK YOU!!!

CHARGE TO: Falcon Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____ 1840 ft
 PUMP TRUCK CHARGE _____ 1925.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 100 @ 7.00 700.00
 MANIFOLD _____ @ 200.00 200.00
 _____ @ 4.00 400.00
Sugar 40 lb @ 2.75 110.00
 TOTAL 3335.00

PLUG & FLOAT EQUIPMENT

Centralizers 3 @ 67.00 201.00
Baskets 3 @ 314.00 942.00
Guide Shoe 1 @ 404.00 404.00
AFB Insert 1 @ 238.00 238.00
Rubber Plug 1 @ 101.00 101.00
 TOTAL 1886.00

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.

SALES TAX (If Any) _____
 TOTAL CHARGES \$26500.45
 DISCOUNT \$19875.34 IF PAID IN 30 DAYS

PRINTED NAME Leon Kuhn
 SIGNATURE [Signature]

Cement Report

Customer	Falconi Exploration		Lease No.			Date	2-10-17		
Lease	Allen Isaac		Well #	1-74		Service Receipt			
Casing	4 1/2	Depth	4617		County	Gray		State	KS
Job Type	4 1/2 L.S.		Formation			Legal Description	24-28-30		

Pipe Data		Perforating Data		Cement Data
Casing size	4 1/2	Tubing Size	Shots/Ft	
Depth	4617	Depth	From	To
Volume	77.6	Volume	From	To
Max Press	2500	Max Press	From	To
Well Connection	P.C.	Annulus Vol.	From	To
Plug Depth		Packer Depth	From	To

Cement Data
 Lead 220 SK 114-2
 546W-60, 1085a 14
 169C-15, 144D 150#
 526, 1407, 16 @ 14.8#
 1, 514161 6.6d gal/k
 Tail in 50 SK same
 R+M

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
17:00					on LOC, spot trucks R.O. Sufficiently
17:30					start F.E.
18:00					F.E. Done
20:00					Break Circ.
20:20					PT went down due to fluid failure
22:30					PT on LOC
23:44	150		12	4	Pump Mud Flush
23:52					H2O spacer
23:56					Plug R+M
0:06	150		0	5	start mixing @ 14.8#
0:35	0		60	-	Finish Mixing
0:40					Washup P+L, Drop Plug
0:43	150		0	6.5	start DISP
0:57	700		63	3	slow Rate
01:00	1000-1500		73	-	Plug Down
01:02	1500-0				Release PSI Plug held

Service Units	19488	3722339776	1435519578		
Driver Names	C. Hinz	R. Olds	J. Brjalva		

Chuck Taylor
Customer Representative

Sunny Bennett
Station Manager

C. Hinz
Cementer

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 16, 2012

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

Re: ACO1
API 15-069-20361-00-00
ALLEN ISAAC 1-24(NW)
NW/4 Sec.24-28S-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

DIAMOND TESTING

General Information Report

General Information

Company Name FALCON EXPLORATION, INC.
Contact MIKE MITCHELL
Well Name ALLEN ISAAC #1-24 (NW) DST #1
Unique Well ID DST #1, STOTLER, 3461-3532
Surface Location SEC 24-28S-30W, GRAY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, STOTLER, 3461-3532
Well Fluid Type 02 Gas

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2012/02/02
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2012/02/02
Final Test Date 2012/02/02

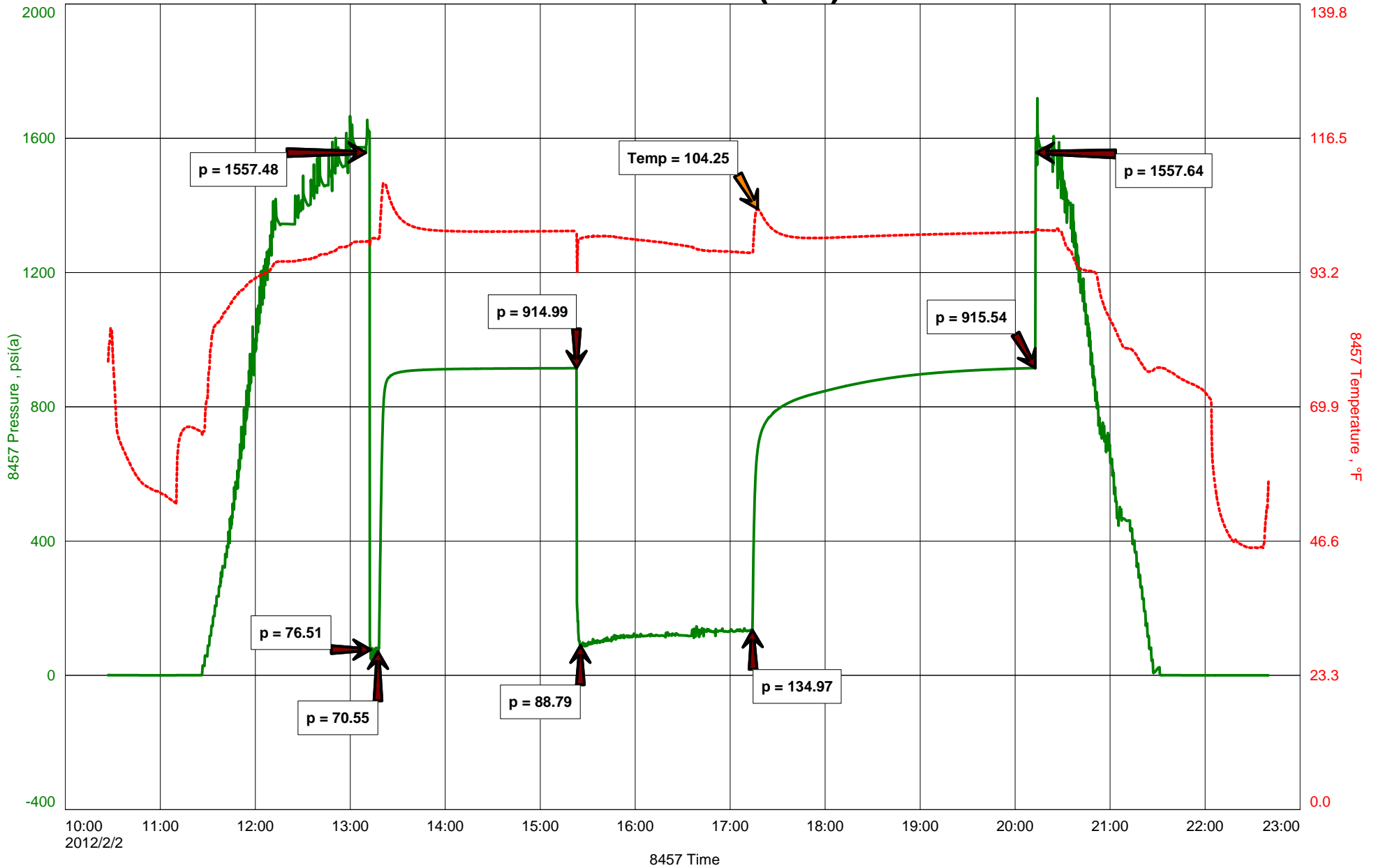
Start Test Time 10:27:00
Final Test Time 22:41:00

Test Recovery:

RECOVERED: 3260' GIP
170' MUD

TOOL SAMPLE: 100% MUD

ALLEN ISAAC #1-24 (NW) DST #1





DIAMOND TESTING
 P. O. Box 157
HOISINGTON, KANSAS 67544
 (316) 653-7550
GAS VOLUME REPORT

Company FALCON EXPLORATION, INC. Lease & Well No. ALLEN ISAAC #1-24 (NW)
 Date 2-2-12 Sec. 24 Twp. 28S Rge. 30W Location _____ County GRAY State KS
 Drilling Contractor VAL ENERGY, INC. RIG #7 Formation STOTLER DST No. 1
 Remarks: GAS TO SURFACE INSTANTANEOUSLY ON THE FINAL FLOW.

INITIAL FLOW

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

FINAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
10	3/4 in.	13 in.	303,000
20	3/4 in.	14.5 in.	324,000
30	3/4 in.	16 in.	344,000
40	3/4 in.	17 in.	357,000
50	3/4 in.	17.5 in.	363,500
60	3/4 in.	18 in.	370,000
70	3/4 in.	18.5 in.	377,000
*80	3/4 in.	18 in.	370,000
90	3/4 in.	18.5 in.	377,000
100	3/4 in.	18.5 in.	377,000
110	3/4	18.5	377,000

*SAMPLE TAKEN

FINAL FLOW



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.

DIAMOND TESTING

General Information Report

General Information

Company Name FALCON EXPLORATION, INC.
Contact MIKE MITCHELL
Well Name ALLEN ISAAC #1-24 (NW)
Unique Well ID DST #2, TORONTO, 4122-4183,
Surface Location SEC 24-28S-30W
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, TORONTO, 4122-4183
Well Fluid Type 02 Gas

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2012/02/04
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2012/02/04
Final Test Date 2012/02/04

Start Test Time 09:41:00
Final Test Time 18:12:00

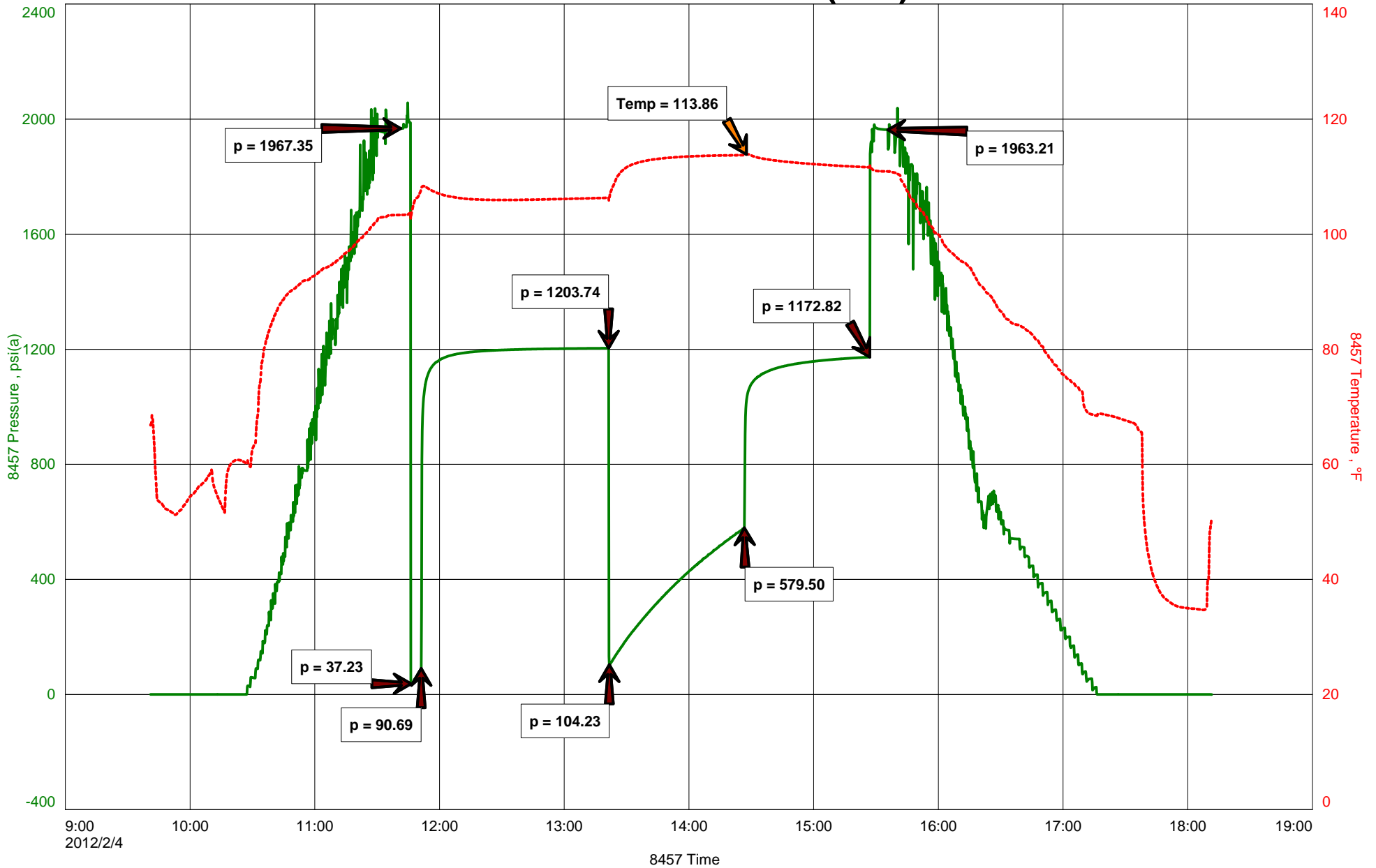
Test Recovery:

RECOVERED: 70' WCM, 29% WATER, 71% MUD
120' HMCW, 57% WATER, 43% MUD
1,005' SLT WCM 97% WATER, 3% MUD
10' MUD

TOOL SAMPLE: 98% WATER, 2% MUD

CLORIDES: 88,000 ppm
PH: 6.5
RW: .1 @ 65 deg.

ALLEN ISAAC #1-24 (NW)





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.

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DIAMOND TESTING

General Information Report

General Information

Company Name FALCON EXPLORATION, INC.
Contact MIKE MITCHELL
Well Name ALLEN ISAAC #1-24 (NW)
Unique Well ID DST #3, LANSING "A", 4196-4251
Surface Location SEC 24-28S-30W, GRAY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, LANSING "A", 4196-4251
Well Fluid Type 02 Gas

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2012/02/05
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2012/02/05
Final Test Date 2012/02/05

Start Test Time 04:26:00
Final Test Time 15:15:00

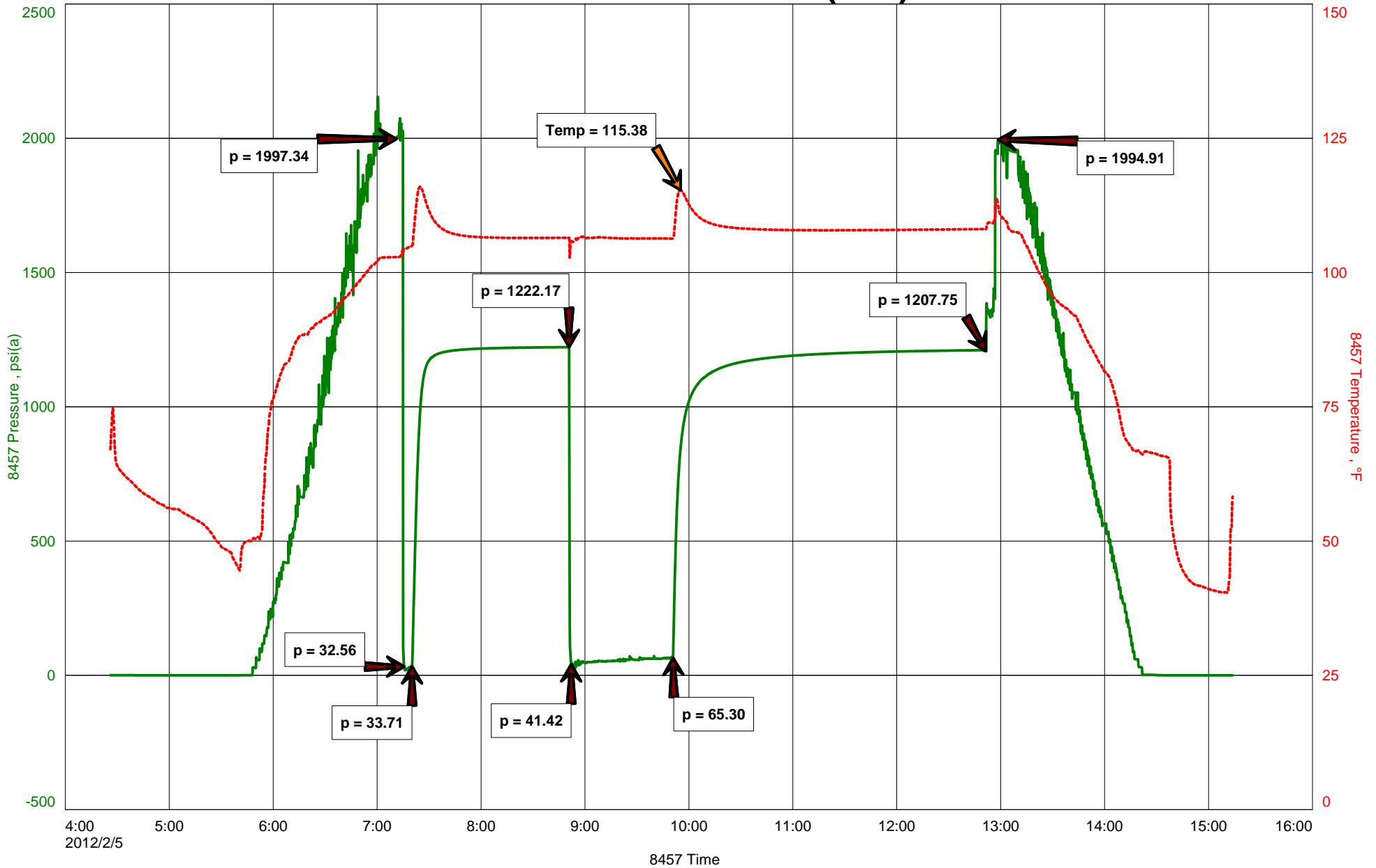
Test Recovery:

RECOVERED: 4040' GAS IN PIPE
65' MUD
60' SLT WCM, 7% WATER, 93% MUD

TOOL SAMPLE: TRACE OIL, 22% WATER, 93% MUD

CHLORIDES: 36,00 ppm
PH: 7.0
RW: .22 @ 68 deg.

ALLEN ISAAC #1-24 (NW)





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.

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DIAMOND TESTING

General Information Report

General Information

Company Name FALCON EXPLORATION, INC.
Contact MIKE MITCHELL
Well Name ALLEN ISAAC #1-24 (NW)
Unique Well ID DST #4, LANSING "I", 4476-4509
Surface Location SEC 24-28S-30W, GRAY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #4, LANSING "I", 4476-4509
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator FALCON EXPLORATION, INC.
Report Date 2012/02/06
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2012/02/06
Final Test Date 2012/02/07

Start Test Time 14:17:00
Final Test Time 01:31:00

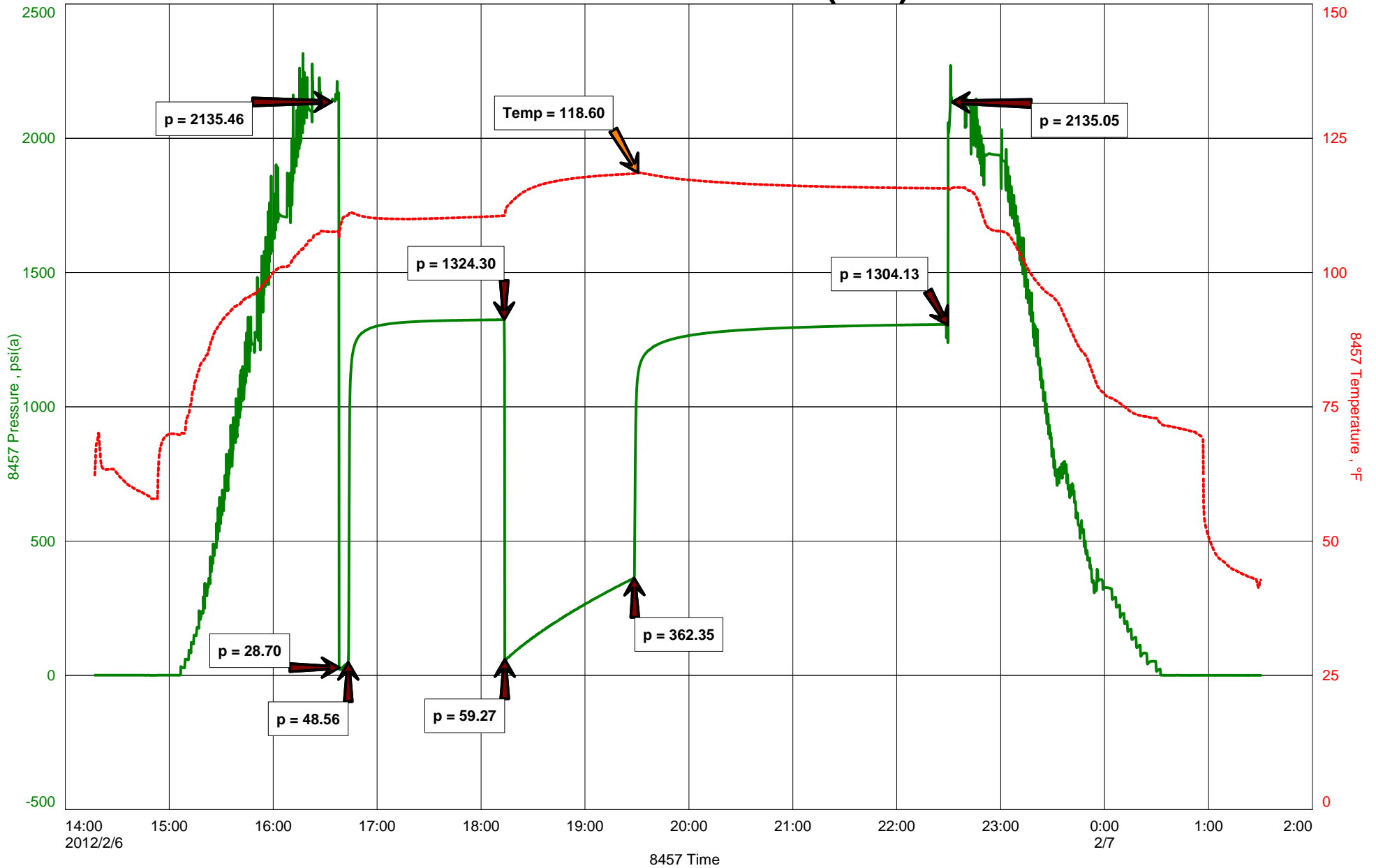
Test Recovery:

RECOVERED: 240' GAS IN PIPE
5' CLEAN OIL @ 37 GRAVITY
140' SO, HWCM, 3% OIL, 47% WATER, 56% MUD
60' MCWW/TR. O, TRACE OIL, 74% WATER, 26% MUD
550' SLT MCW, 99% WATER, 1% MUD

TOOL SAMPLE: 100% WATER

CHLORIDES: 59,000 ppm
PH: 7.0
RW: .15 @ 64 deg.

ALLEN ISAAC #1-24 (NW)





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.



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

Well Name: ALLEN ISSAC #1-24 (NW)
Location: N2-N2-S2-NW 1/4
License Number: 15-069-20361-00-00
Spud Date: 1/28/12
Surface Coordinates: 1620' FNL & 1320' FEL

Region: GRAY CO., KS.
Drilling Completed: 2/10/12

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2792' **K.B. Elevation (ft):** 2802'
Logged Interval (ft): Surface Cs To: 5455' **Total Depth (ft):** 5455'
Formation: Salem (Spergen) Formation
Type of Drilling Fluid: Chemical Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: FALCON EXPLORATION, INC.
Address: 125 N. Market, Ste. 1252
Wichita, Kansas 67202

GEOLOGIST

Name: DAVID P. WILLIAMS
Company: DW ENERGY, LLC
Address: 312 N. BROADVIEW STREET
WICHITA, KANSAS 67208

Casing & Deviation Surveys

Ran jts of new 24#, 8 5/8 casing. Tallied 1840'. Set at 1839' KB. Welded straps on GS & bottom 3 joints. Centralizes (3) set at 1, 20, 35. Baskets (3) set at 1, 24, 41. Cemented with 675 sks 65/35 POZ; 6% Gel; 3% CC, 1/4 # FS. Tailed in with 150 Sks Class A; 2% Gel; 3% CC. Cement did circulate to pit. Plug down at 4:15 AM on 1/30/12.

Deviation Surveys: @ 1840' = 2 1/4 degrees; @ 3530' = 3 1/2 degrees; @ 4183' = 3 degrees; @ 4251' = 3/4 degrees; @ 4509' = 1/2 degree; @ 5450' = 3/4 degree.

DSTs

DST #1 3461'-3532' Times: 5"-120"-110"-180"; Blow: IF Strong Blow BOB/ 30". FF Strong Blow GTS Instant TSTM. (See Gauge Report Below). Recovery: 3260' GIP; 170' DM. Pressures: IH 1557#; FH 1558#; IF 77-71#; FF 89-135#; ISIP 915#; FSIP 916#; Temp = 104 Degrees F.

Gas Flow:; FF GTS On Open TSTM; @ 10" = 303 Mcf; @ 20" = 324 Mcf; @ 30" = 344 Mcf; @ 40" = 357 Mcf; @ 50" = 363.5 Mcf; @ 60" = 370 Mcf; @ 70" = 377 Mcf; @ 80" = 370 Mcf; @ 90" = 377 Mcf; @ 100" = 377 Mcf; @ 110" = 377 Mcf.

DST # 2 3461'-3532'. Times: 5"-90"-65"-60"; Blow: IF Strong Blow BOB/ 4.5". FF Strong Blow BOB/5.5". Recovery: 1205' SWCM: (70' WCM; 120' HMCW; 1005' SWCM; 10' M). Pressures: IH 1967#; FH 1963#; IF 37-91#; FF 104-580#; ISIP = 1204#; FSIP 1173#; Temp=114 Degrees F.; Chl=88000 Ppm; PH=6.5; RW=.1 @ 65 degrees

DST #3 - 4196'-4251'; Times: 5"-90"-60"-180"; Blow: IF Strong Blow BOB/ 15 Sec. FF Strong Blow GTS/Instant. (See Gauge Report Below). Recovery: 4040'GIP;' GIP;125' GCM: (65' DM; 60' SWCM (7% Wtr)). Chl.= 36000 Ppm;Ph=7.0; RW=.22@ 68 degrees). Pressures: IH 1997#; FH 1995#; IF 33-34#; FF 41-65#; ISIP 1222#; FSIP 1208#; Temp= 115 Degrees F.

Gas Flow: FF GTS/Instant. @ 10" = 108 Mcf; @ 20" = 108 Mcf; @ 30" = 110 Mcf; @ 40" = 110 Mcf; @ 50" = 110 Mcf; @ 60" = 110 Mcf.

DST # 4 4476'-4509'; Times: 5"-90"-75"-180"; Blow: IF Fair Blow 8"@ 5 Min.. FF Fair Blow BOB@10 Min. Recovery: 240' GIP; 755' TF: (5' CO (37 Grv.); 140' SO & HWCM (3% Oil, 47% Wtr., 56% M); 60' MCW w/Tr Oil (Tr/O; 74% Wtr., 26% M), 550' SMCW (98% Wtr, 1% M)). Chl.= 59000 Ppm; Ph=7.0; RW=.15 @ 64 degrees). Pressures: IH 2135#; FH 2135#; IF 49-59#; FF 59-362#; ISIP 1324#; FSIP 1304; Temp= 119 Degrees F.




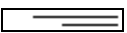

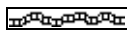


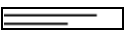

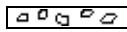

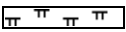




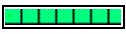


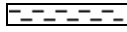

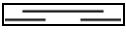

Comments

After review of all of the pertinent geological and structural data, drill test test recoveries and reservoir pressures including electric logs analyses it was recommended by all parties to run production casing and to attempt to complete this well as a commercial producer.

Respectfully submitted,

David P. Williams, P. G.

ROCK TYPES

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

ACCESSORIES

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

- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Sity
- Sand
- Dol

- 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
 - Gryslt
 - Gyp
 - Ls
 - Mrst
 - Sltstn
 - Sandylms
 - Sltstrg

- Ssstrg
- Sh
- Grysh

- 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

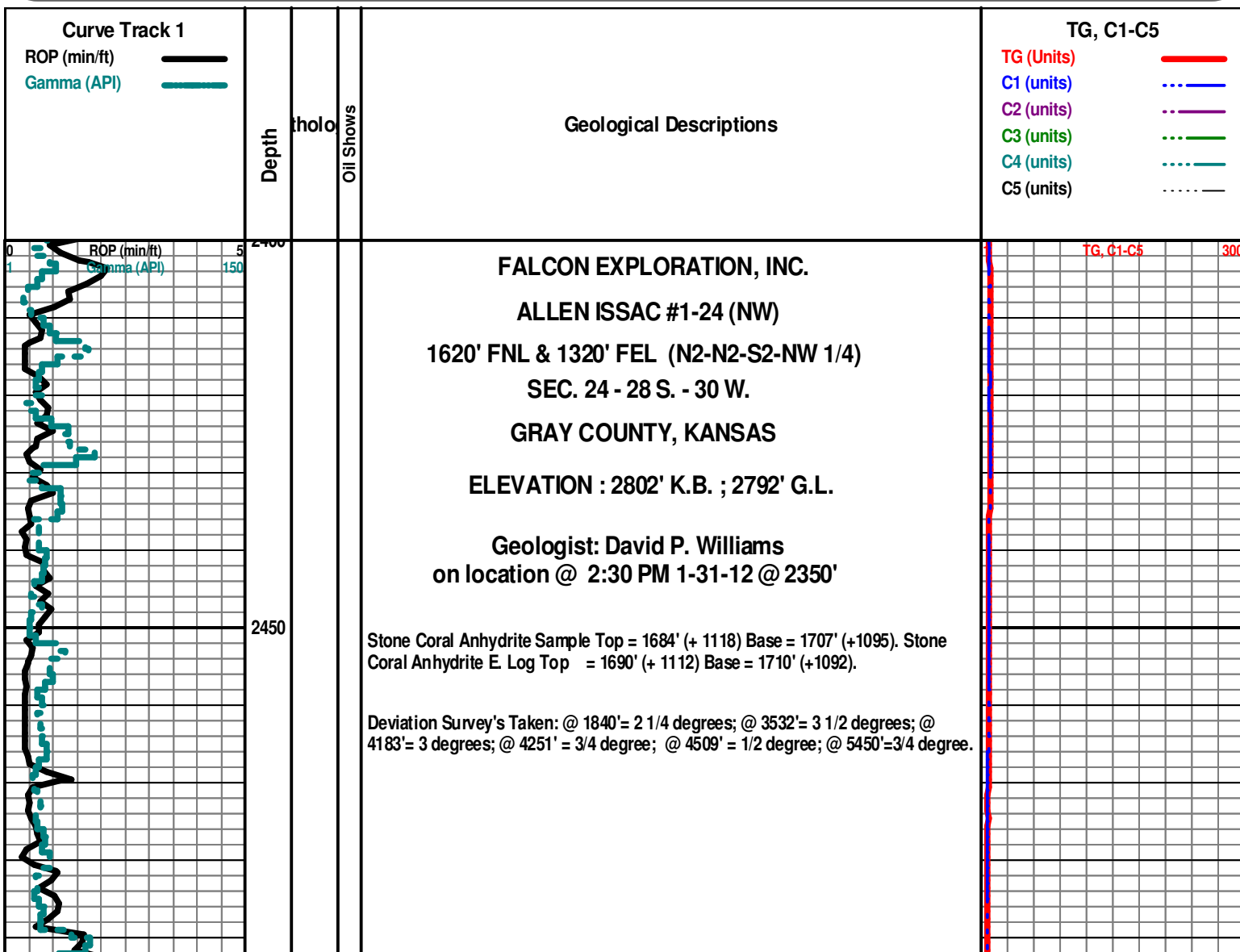
- OIL SHOW**
- Gas show

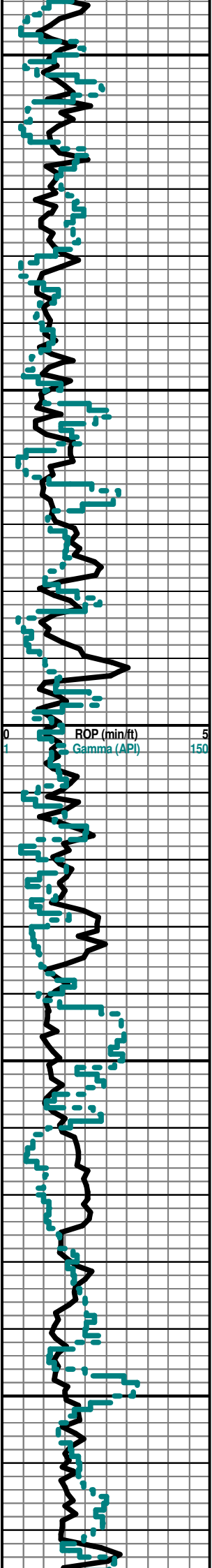
- Even
- Spotted
- Ques
- Dead

- INTERVAL**
- Dst_alt
 - Dst

- Core
- Dst

- EVENT**
- Rft
 - Sidewall





2500
2550
2600
2650
2700

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

Begin 20' Sample Examination @ 2600'.

Anhy/Gyp Abd Sh Red-Gry Abd Soft No Stn No Flor NS

Anhy/Gyp Abd AA Sh Red-Gry Abd AA Soft No Stn No Flor NS

Anhy/Gyp Abd AA Sh Red-Gry Abd AA Soft No Stn No Flor NS

CHASE GROUP 2650' (+152)

Dolo Gry-Crm Fxln-Microxln Poor lxln Por Grad Sli Ls Gry Sh Red-Gry Soft Abd No Odor No Stn Sli Tr ? Flor (Lt Grn) ? SG NS

KRIDER 2683' (+ 119)

Dolo Gry-Crm Fxln-Microxln Poor lxln Por AA Sh Red-Gry-Char Soft Abd No Odor No Stn No Flor ? Sli SG NS

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry Fxln Poor lxln Por No Odor No Stn No Flor NS

WINFIELD 2732' (+ 80)

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry Fxln

SAMPLE TRAP BOX LEFT OPEN

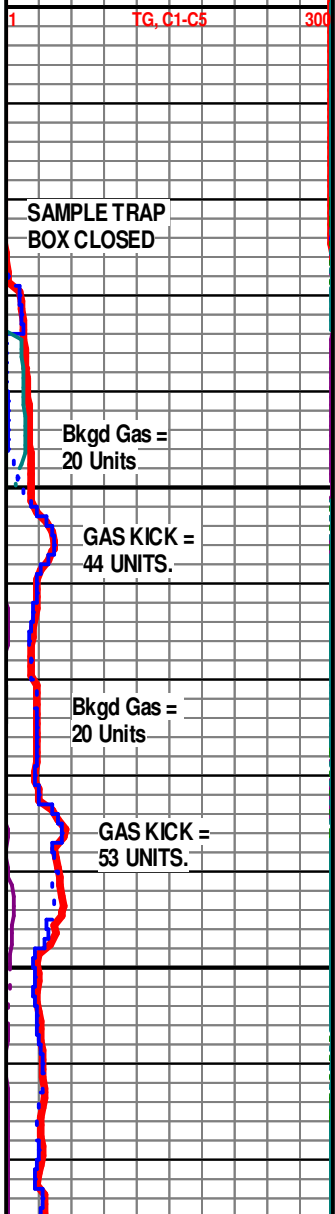
SAMPLE TRAP BOX CLOSED

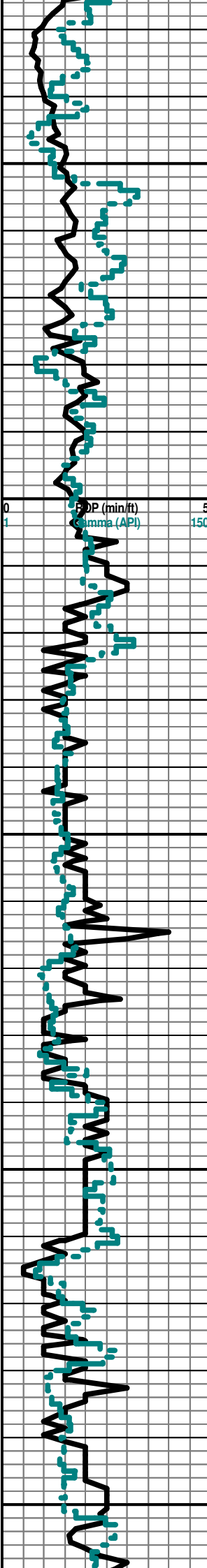
Bkgd Gas = 20 Units

GAS KICK = 44 UNITS.

Bkgd Gas = 20 Units

GAS KICK = 53 UNITS.





Poor lxIn Por No Odor No Stn No Flor NS

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

2750

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

TOWANDA 2770' (+ 32)

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

2800

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

FORT RILEY 2811' (- 9)

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

2850

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

2900

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn
 Poor lxIn Por No Odor No Stn No Flor NS

LS Crm-Wht FxIn Poor lxIn Por Inc Abd Sh Red-Char-Gry Soft Fissil AA No Odor
 No Flor No Stn No Flor NS

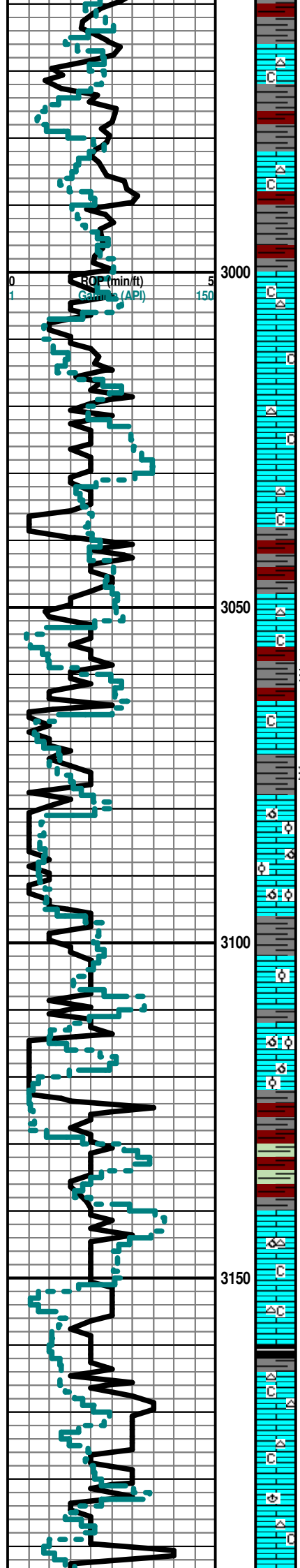
LS Crm-Wht FxIn Poor lxIn Por Grad Sm Pin-Pt FxIn Por Inc Abd Sh Red-Char-Gry
 Soft Fissil AA No Odor No Flor No Stn No Flor NS

2950

GAS KICK = 77 UNITS.

TG, C1-C5 300

GAS KICK = 46 UNITS.



LS Crm-Wht FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Inc Abd Sh
 Red-Char-Gry-Grn Soft Fissil AA Cht Gry Op Shp Vit Chalk Wht No Odor No Flor
 No Stn No Flor NS

LS Crm-Wht FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Inc Abd Sh
 Red-Char-Gry-Grn Soft Fissil AA Cht Gry Op Shp Vit Chalk Wht No Odor No Flor
 No Stn No Flor NS

LS Crm-Wht FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Inc Abd Sh
 Red-Char-Gry-Grn Soft Fissil AA Cht Gry Op Shp Vit Chalk Wht No Odor No Flor
 No Stn No Flor NS

LS Crm-Wht FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Inc Abd Sh
 Red-Char-Gry-Grn Soft Fissil AA Cht Gry Op Shp Vit Chalk Wht No Odor No Flor
 No Stn No Flor NS

LS Wht-Crm-Gry FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Grad Micritic Dsn
 Barren Sh Red-Char-Gry-Grn Soft Fissil Inc Cht Gry Op Shp Vit Chalk Wht No
 Odor No Flor No Stn No Flor NS

BADER 3064' (- 262)

LS Wht-Crm-Gry FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Grad Micritic Dsn
 Barren Sh Red-Char-Gry-Grn Soft Fissil Inc Cht Gry Op Shp Vit Chalk Wht No
 Odor No Flor No Stn No Flor NS

COTTONWOOD 3079' (- 277)

LS Wht-Crm-Gry Poor OOM Por Fair InterOOM Por w/OOL in pl w/Poor- Fair
 Leaching Fair-Good Disolu Tr/Vug Por Barren Grad FxIn IxIn Por Grad Sm Pin-Pt
 FxIn Por Grad Micritic Dsn Barren Sh Red-Char-Grn Soft Fissil Dec Cht Gry Op
 Shp Vit Chalk Wht Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry Poor OOM Por Fair InterOOM Por w/OOL in pl w/Poor- Fair
 Leaching Fair-Good Disolu Tr/Vug Por Barren Grad FxIn IxIn Por Grad Sm Pin-Pt
 FxIn Por Grad Micritic Dsn Barren Sh Red-Char-Grn Soft Fissil Dec Cht Gry Op
 Shp Vit Chalk Wht Abd No Odor No Flor No Stn No Flor NS

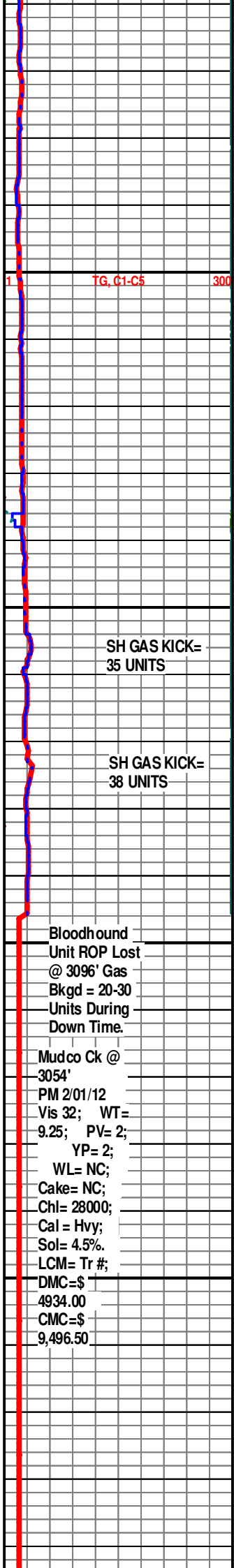
LS Wht-Crm-Gry Poor OOM Por Fair InterOOM Por w/OOL in pl w/Poor- Fair
 Leaching Fair-Good Disolu Tr/Vug Por Barren Grad FxIn IxIn Por Grad Sm Pin-Pt
 FxIn Por Grad Micritic Dsn Barren Sh Red-Char-Grn Soft Fissil Dec Cht Gry Op
 Shp Vit Chalk Wht Abd No Odor No Flor No Stn No Flor NS

NEVA 3140' (- 338)

LS Wht-Crm-Gry Poor OOM Por Fair InterOOM Por w/OOL in pl w/Poor- Fair
 Leaching Fair-Good Disolu Tr/Vug Por Barren Grad FxIn IxIn Por Grad Sm Pin-Pt
 FxIn Por Grad Micritic Dsn Barren Sh Red-Char-Grn Soft Fissil Dec Cht Gry Op
 Shp Vit Chalk Wht Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Poor OOM Por
 Poor-Fair InterOOM Por Poor- Fair Leaching Fair Disolu Barren Dec Sh
 Red-Char-Grn Soft Fissil Dec Cht Amber-Tan Op Shp Vit Chalk Wht Abd No Odor
 No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Poor OOM Por
 Poor-Fair InterOOM Por Poor- Fair Leaching Fair Disolu Barren Dec Sh
 Grn-Red-Char Soft Fissil Dec Cht Wht w/Fos (Brach) Inclu Op Shp Vit Chalk Wht
 Abd No Odor No Flor No Stn No Flor NS



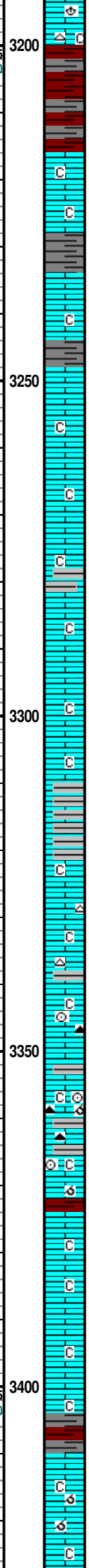
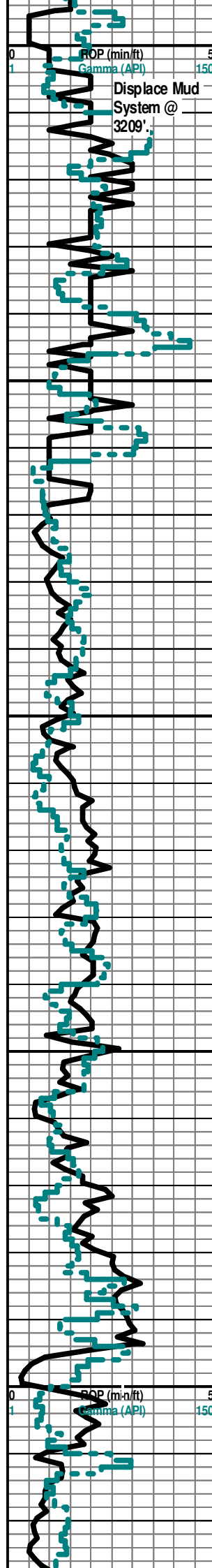
TG, C1-C5 300

SH GAS KICK= 35 UNITS

SH GAS KICK= 38 UNITS

Bloodhound
 Unit ROP Lost
 @ 3096' Gas
 Bkgd = 20-30
 Units During
 Down Time.

Mudco Ck @
 3054'
 PM 2/01/12
 Vis 32; WT=
 9.25; PV= 2;
 YP= 2;
 WL= NC;
 Cake= NC;
 Chl= 28000;
 Cal = Hvy;
 Sol= 4.5%.
 LCM= Tr #;
 DMC=\$
 4934.00
 CMC=\$
 9,496.50



Sh Grn-Red-Char Soft Fissil Inc LS Wht-Crm-Grn FxIn IxIn Por Grad Micritic Dsn Barren Grad Poor OOM Por Poor-Fair InterOOM Por Poor- Fair Leaching Fair Disolu Barren AA Cht Wht Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn No Flor NS

Sh Grn-Red-Char Soft Fissil Inc LS Wht-Crm-Grn FxIn IxIn Por Grad Micritic Dsn Barren Grad Poor OOM Por Poor-Fair InterOOM Por Poor- Fair Leaching Fair Disolu Barren AA Cht Wht Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Sh Gm-Red Soft Fissil Tr/Dec Cht Wht-Gry Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn No Flor NS

FORAKER 3248' (- 447)

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Sh Gm-Red Soft Fissil Tr/Dec Cht Wht-Gry Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Sh Gm-Red Soft Fissil Tr/Dec Chalk Wht V Abd No Odor No Flor No Stn No Flor NS

LS Crm-Gry FxIn IxIn Por Grad Micritic Sh Gm-Red Soft Fissil Chalk Wht V Abd No Odor No Flor No Stn No Flor NS

LS Crm-Gry FxIn IxIn Por Grad Micritic Cht Gry Op Shp Vit Sh Grn-Red Soft Fissil Chalk Wht V Abd No Odor No Flor No Stn No Flor NS

LS Crm-Gry FxIn IxIn Por Grad Micritic Cht Gry Op Shp Vit Sh Grn-Red Soft Fissil Fos (Crin) Chalk Wht V Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Poor OOM Por Poor-Fair InterOOM Por Poor- Fair Leaching Fair Disolu Barren Dec Sh Grn-Red-Char Soft Fissil Dec Cht Gry Op Shp Vit Chalk Wht Abd No Odor ? Sli Min Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Tr/Poor OOM Por Poor InterOOM Por Poor Leaching Poor Disolu Barren Dec Sh Grn-Red-Char Soft Fissil Cht Gry Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Tr/Poor OOM Por Poor InterOOM Por Poor Leaching Poor Disolu Barren Dec Sh Grn-Red-Char Soft Fissil Cht Gry Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

FALL CITY 3410' (- 608)

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Tr/Poor OOM Por Poor InterOOM Por Poor Leaching Poor Disolu Barren Dec Sh Grn-Red-Char Soft Fissil Cht Gry Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

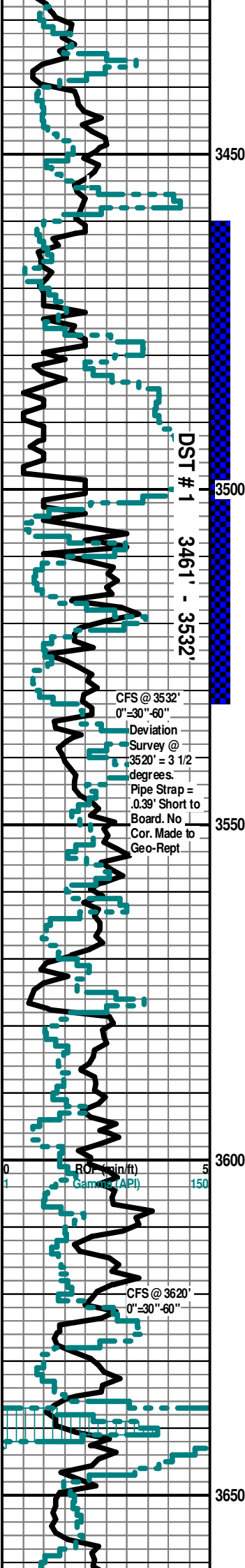
TG, C1-C5 300

Fix Bloodhound Unit ROP @ 3268'

Mudco Ck @ 3532' @ 6:50 AM 2/02/12 Vis 51; WT= 8.7#; PV= 14; YP= 16; WL= 8.0; Cake= 1; Chl= 5400; Cal = 140; Sol= 2.6% LCM= 2#; DMC=\$ 2163.55 CMC=\$ 11,600.05

TG, C1-C5 300

DST # 1 3461'-3532'. Times: 5"-120"-110"-180"; Blow: IF Strong Blow BOB/ 30 Sec. FF Strong Blow GTS Instant TSTM. (See Gauge Report Below). Recovery: 3260' GIP;



LS Crm-Gry FxIn IxIn Por Micritic Dsn No Vis Por Barren Tr OOM Por AA Sh
Grn-Red Soft Fissil Dec Fos (Brach) Chalk Wht Abd No Odor No Flor No Stn Fair ?
Min Flor (Lt Grn) NS

Begin 10' Sample Examination @ 3470'.

LS Crm-Gry FxIn IxIn Por Micritic Dsn No Vis Por Barren Sh Grn-Red Soft Fissil Dec Fos (Brach, Fuss)
Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

LS Crm-Gry FxIn IxIn Por Micritic Dsn No Vis Por Barren Sh Grn-Red Soft Fissil Dec Fos (Brach, Fuss)
Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

ROOT SHALE 3472' (- 671)

Sh Red-Gry Fissil-Soft V Abd (Spl Wash Red) LS Crm-Gry FxIn Micritic AA Poor
IxIn Por No Odor No Stn ? Min Flor AA NS

Sh Red-Gry Fissil-Soft V Abd (Spl Wash Red) LS Crm-Gry FxIn Micritic AA Poor
IxIn Por No Odor No Stn ? Min Flor AA NS

STOTLER 3498' (- 696)

LS Wht-Crm-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Tr/Fair OOM Por w/OOL in pl (1 Pc) Poor
InterOOM Por Fair Leaching Fair Disolu Sh Grn-Red Soft Chalk Wht Abd No Odor ? Fair Min Flor (Lt
Grn-Wht) No Stn ? SG

0" CFS @ 3532' LS Wht-Crm-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Grad Tr/Fair OOM Por
w/OOL in pl Fair InterOOM Por Fair Leaching Fair Disolu Sh Grn-Red Soft Fos (Fuss) Chalk Wht Abd
No Odor ? Fair Min Flor (Lt Grn-Wht) No Stn ? SG

30" CFS @ 3532' LS Wht-Crm-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Grad Tr/Fair OOM Por
w/OOL (Small) in pl Fair InterOOM Por Fair Leaching Fair Disolu Sh Grn-Red Soft Fos (Fuss) Chalk
Wht Abd No Odor ? Good Min Flor (Lt Wht) No Stn ? SG

60" CFS @ 3532' LS Wht-Crm-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Grad Tr/Fair OOM Por
w/OOL (Small) in pl Fair InterOOM Por Fair Leaching Fair Disolu Sh Grn-Red Soft Fos (Fuss) Chalk
Wht Abd No Odor ? Good Min Flor (Lt Wht) No Stn ? SG

LS Gry-Crm MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht Abd Sh
Gry-Char-Red Soft No Odor Tr/ Min Flor (Lt Wht) No Stn NS

LS Gry-Crm MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht Abd Fos (Crin,
Fuss) Sh Gry Soft No Odor Tr/ Min Flor (Lt Wht) No Stn NS

LS Wht-Crm-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht V Abd Sh
Gry Soft No Odor ? Med Min Flor (Lt Wht) No Stn NS

LS Wht-Crm-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht V Abd Sh
Gry-Char-Tr/Aqua Soft-Fissil No Odor ? Med Min Flor (Lt Wht) No Stn NS

TARKIO 3569' (- 767)

LS Wht-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht V Abd Sh
Gry-Char-Maroon Soft-Fissil No Odor ? Med Min Flor (Lt Wht) No Stn ? SSG ?

LS Wht-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht V Abd Sh
Gry-Char-Maroon Soft-Fissil No Odor ? Med Min Flor (Lt Wht) No Stn NS

0" CFS @ 3620' LS Wht-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht
V Abd Cht Crm-Tan Op Shp Sh Gry-Char Soft No Odor ? Med Min Flor (Lt Wht) No
Stn NS

30" CFS @ 3620' LS Wht-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht
V Abd Cht Crm-Tan Op-Transl Shp Vit Fos (Bry) Sh Gry-Char Soft No Odor ? Med
Min Flor (Lt Wht) No Stn NS

60" CFS @ 3620' LS Wht-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht
V Abd Cht Crm-Tan Op-Transl Shp Vit Fos (Bry) Sh Gry-Char Soft No Odor ? Med
Min Flor (Lt Wht) No Stn NS

LS Gry-Tr/Crm MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht Abd Sh
Gry-Char-Brn Soft No Odor ? Med Min Flor Dec No Stn NS

LS Wht-Crm MicroxIn-FxIn IxIn Por Micritic Dsn Barren Grad Tr/Poor OOM Por
w/OOL (Small) in pl Poor InterOOM Por Poor Leaching Poor-No Disolu Sh
Char-Brn Soft Fos (Crin) Chalk Wht Abd No Odor ? Min Flor (Dull Wht) Inc No Stn
NS

LS Wht-Gry MicroxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht Abd Sh
Gry-Char-Red Soft No Odor ? Med Min Flor (Dull Wht) No Stn NS

LS Wht-Gry FxIn IxIn Pin-Pt Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Sh
Gry-Char Soft No Odor No Flor No Stn NS

LS Wht-Gry FxIn Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Sh Gry-Char

170' DM. Pressures:
IH 1557#;
FH 1558#; IF
77-71#; FF
89-135#; ISIP
915#; FSIP
916#; Temp=
104 Degrees F.

Gas Flow;; FF GTS On
Open TSTM; @ 10" =
303 Mcf; @ 20" = 324
Mcf; @ 30" = 344 Mcf;
@ 40" = 357 Mcf; @
50" = 363.5 Mcf; @ 60"
= 370 Mcf; @ 70" =
377 Mcf; @ 80" = 370
Mcf; @ 90" = 377 Mcf;
@ 100" = 377 Mcf; @
110" = 377 Mcf.

GAS KICK = 77
UNITS

Scale Change
TG, C1-C5 200

GAS KICK =
63 UNITS

GAS KICK = 163
UNITS

RE-CYCLE GAS KICK
= 118 UNITS

Scale Change
TG, C1-C5 300

BKGD GAS
KICK = 154
UNITS

? TRIP GAS
AFTER DST #
1

BKGD GAS
KICK = 154
UNITS

Scale Change
TG, C1-C5 200

GAS KICK =
186 UNITS

Scale Change
TG, C1-C5 200

BKGD GAS
KICK = 120
UNITS

LS Wht-Crm-Fxn Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Sh Crly Char Soft No Odor No Flor No Stn NS

BERN 3670' (- 868)

LS Wht-Crm-Gry Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Fos (Crin) Sh Gry-Char Soft No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Sh Gry-Char Soft No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Sh Gry-Char Soft No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Fos (Fuss)Sh Gry-Char Soft No Odor No Flor No Stn NS

LS Wht-Crm Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Cht Amber-Gry Transl-Op Shp Vit Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

LS Wht-Crm Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Cht Amber-Gry Transl-Op Shp Vit Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

LS Wht-Crm Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Cht Amber-Gry Transl-Op Shp Vit Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

LS Wht-Crm Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Cht Amber-Gry Transl-Op Shp Vit Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

LS Wht-Crm Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Cht Amber-Gry Transl-Op Shp Vit Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

LS Wht-Crm Fxln Tr/Poor Ixln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Cht Amber-Gry Transl-Op Shp Vit Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

TOPEKA 3770' (- 968)

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht Op Shp Vit Sh Blk Carb-Char-Grn Fissil Soft No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht Op Shp Vit Sh Blk Carb-Char-Grn Fissil Soft No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Gry Op Shp Vit Fos (Fuss) Sh Blk Carb-Char Fissil Soft No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht Op Shp Vit Fos (Fuss) Sh Char-Red Fissil Soft No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Blk Op Shp Vit Fos (Fuss) Sh Char-Red Fissil Soft No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Tan-Gry w/Fos Includ (Crin) Op Shp Vit Pyr Mass Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Tan-Gry w/Fos Includ (Crin) Op Shp Vit Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Tan-Gry w/Fos Includ (Crin) Op Shp Vit Pyr Mass Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht Op Shp Vit Fos(Crin) Sh Char Fissil No Odor No Flor No Stn NS

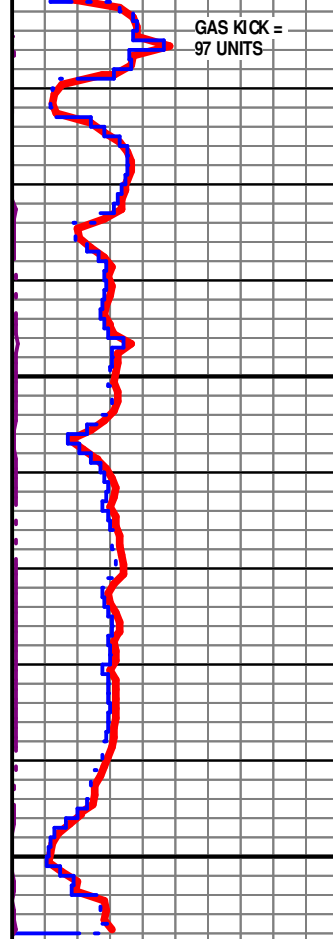
LS Wht-Crm-Gry Fxln Poor Ixln Por Chalk Wht Abd Cht Wht-Tan-Gry w/Fos Includ (Crin) Op Shp Vit Pyr Mass Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor-Fair Ixln Por Chalk Wht Abd Cht Wht Op Shp Vit Sh Char Fissil No Odor No Flor No Stn NS

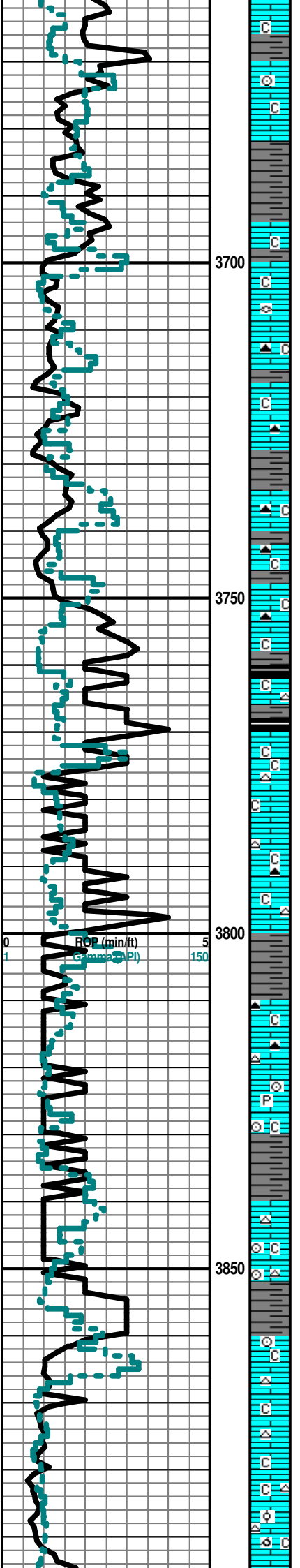
LS Wht-Crm-Gry Fxln Poor-Fair Ixln Por Grad Tr/OOL Por w/ OOL in pl Poor Develop Poor Dissolu Poor Leacing Chalk Wht Abd Cht Wht Op Shp Vit Sh Char-Red Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry Fxln Poor-Fair Ixln Por Grad Tr/OOM Por Poor InterOOM Por

GAS KICK = 97 UNITS

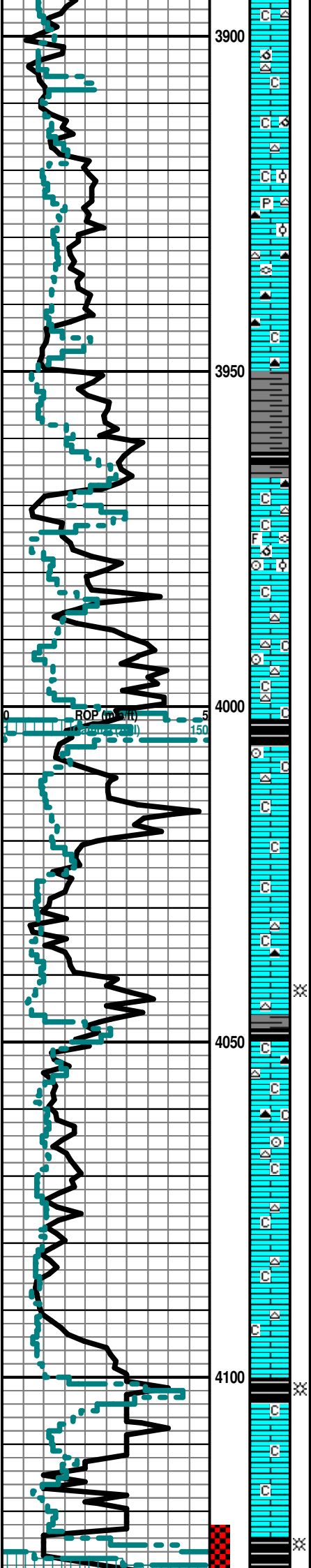


Bloodhound Unit
TG & C1 Data Lost
@ 3758' Gas Bkgd
= 50-60 Units
During Down Time.



TG, C1-C5 200
Mudco Ck @
3841' @ 2:00
PM 2/03/12.
Vis 56; WT=
9.1#; PV= 17;
YP= 17;
WL= 8.4;
Cake= 1;
Chl= 5400; Cal=
= 280; Sol=
5.4%; LCM=
3.5#; DMC=\$
1305.95
CMC=\$
12,906.00

Fix Bloodhound
Unit ROP @ 3858'



Poor Develop Poor Dissolu Poor Leaching Chalk Wht Abd Cht Wht Op Shp Vit Sh Char-Red Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry FxIn Poor-Fair IxIn Por Grad Tr/OOM Por Poor InterOOM Por Poor Develop Poor Dissolu Poor Leaching Chalk Wht Abd Cht Wht Op Shp Vit Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry FxIn Poor-Fair IxIn Por Grad Tr/OOM Por Poor InterOOM Por Poor Develop Poor Dissolu Poor Leaching Chalk Wht Abd Cht Wht Op Shp Vit Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm FxIn Poor-Fair IxIn w/ Pyr Inclus Por Grad Tr/OOL Por w/ OOL (Small) in pl Poor Develop Poor Dissolu Poor Leacing Chalk Wht Abd Cht Wht-Tan Transl-Op Shp Vit Sh Char Tr/Red Fissil No Odor No Flor No Stn NS

LS Crm-Wht-Gry FxIn Poor-Fair IxIn Wht Abd Cht Blk-Wht Op Shp Vit Sh Char Fos (Fuss) Tr/Red Fissil No Odor No Flor No Stn NS

LS Crm-Wht FxIn Poor-Fair IxIn Cht Blk-Wht Op Shp Vit Sh Char Fos (Fuss) Tr/Red Fissil No Odor No Flor No Stn NS

LS Crm-Wht FxIn Poor-Fair IxIn Cht Blk Op Shp Vit Fos (Fuss) Sh Char Fissil Inc No Odor No Flor No Stn NS

LECOMPTON 3950' (- 1148)

LS Crm-Wht FxIn Poor-Fair IxIn Cht Blk-Wht Op Shp Vit Sh Blk Carb - Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm FxIn Micritic Grad Poor-Fair IxIn Por Grad Tr/OOM Por w/ OOL (Small) in pl Poor-Fair Develop Poor-Fair Dissolu Poor-Fair Leaching Chalk Wht Abd Cht Wht-Tan Transl-Op Shp Vit Fos (Crim, Spic) Sh Char Fissil No Odor No Flor No Stn NS

LS Crm-Gry FxIn Micritic Grad Poor-Fair IxIn Por Chalk Wht Abd Cht Wht-Tan Transl-Op Shp Vit Fos (Crim) Sh Char Fissil No Odor No Flor No Stn NS

LS Crm-Gry FxIn Micritic Grad Poor-Fair IxIn Por Chalk Wht Abd Cht Wht-Tan Transl-Op Shp Vit Fos (Crim) Sh Char Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Por Chalk Wht Soft Abd Sh Char-Grn-Tr/Blk Carb Fissil No Odor No Stn No Flor NS

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

LS Crm-Wht FxIn Poor-Fair IxIn Cht Blk-Wht Op Shp Vit Sh Blk Carb - Char Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char Fissil FSG Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn Por Chalk Wht Soft Cht Wht Transl-Op Shp Vit Fos (Fuss) No Odor No Stn No Flor FSG (in Sh Blk Carb)

Ls Crm-Gry FxIn Poor-Fair IxIn Por Chalk Wht Soft Abd Cht Blk-Tan Op Shp Vit Sh Char-Grn Fissil No Odor No Stn No Flor NS

Ls Crm-Wht FxIn Grad Poor IxIn Por Grad Tr/OOM Por w/ OOL (Small) in pl Poor Develop Poor Dissolu Poor Leaching Chalk Wht Abd Cht Blk-Tan Op Shp Vit Fos (Crim) Sh Char Fissil No Odor No Flor No Stn NS

Ls Crm-Gry FxIn Poor-Fair IxIn Por Chalk Wht Soft Abd Tr/Cht Wht-Tan (Banded) Op Shp Vit Sh Char-Grn Fissil No Odor No Stn No Flor NS

Ls Gry-Crm FxIn Poor-Fair IxIn Por Grad Dns Micrite AA Chalk Wht Soft Cht Wht-Tan (Banded) Op Shp Vit Sh Char-Grn Fissil No Odor No Stn No Flor NS

Sh Blk Carb-Char-Grn Fissil F-G SG Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn Por Chalk Wht Soft Cht Wht Transl-Op Shp Vit Fos (Crim) No Odor No Stn No Flor FSG (in Sh Blk Carb)

Ls Gry-Crm FxIn Dns Micrite Poor-No Vis IxIn Por Chalk Wht Soft Sh Blk Carb-Char-Red Fissil No Odor No Stn No Flor NS

Ls Gry-Crm FxIn Dns Micrite Poor-No Vis IxIn Por Chalk Wht Soft Sh Blk Carb-Char-Red Fissil No Odor No Stn No Flor NS

HEEBNER 4123' (- 1321)

Sh Blk Carb-Char-Grn Fissil F-G SG Ls Crm FxIn Dns Micrite Poor IxIn Por Chalk

Mudco Ck @
4183' @ 12:50
PM 2/04/12
Vis 53; WT=
9.25#; PV=
15; YP=
16; WL=
7.6; Cake=
1; Chl=
3400; Cal =
20; Sol=
6.3%; LCM= 2
#; DMC=\$
1399.05
CMC=\$
14,305.05

SH GAS KICK
= 60 UNITS.

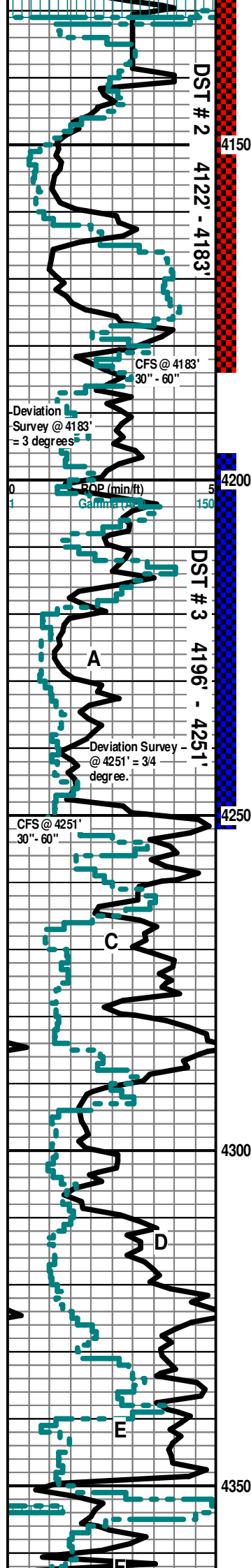
DST # 2
3461'-3532" Times:
5'-90"-65"-60";
Blow: IF Strong
Blow BOB/4.5". FF
Strong Blow
BOB/5.5".
Recovery:
1205' SWCM: (70'
WCM; 120' HMCW;
1005' SWCM; 10'
M).
Pressures: IH
1967#; FH
1963#; IF
37-91#; FF
104-580#; ISIP
1204#; FSIP
1173#; Temp = 114
Degrees F.
Chl=88000 Ppm;
PH=6.5;
RW=.1 @ 65
degrees.

SH GAS
KICK = 61
UNITS.

SH GAS
KICK = 143
UNITS.

SH GAS
KICK = 106
UNITS.

RE-CYCLE SH



Wht Soft Cht Wht Trans-Op Shp Vit Fos (Crin) No Odor No Stn No Flor FSG (in Sh Blk Carb)

TORONTO 4142' (- 1340)

Ls Wht-Crm MicroIn-FxIn Poor-Fair IxIn Por Cht Wht Op Shp Vit Chalk Wht Soft Abd Sh Blk Carb-Char AA Fissil No Odor No Stn Ls w/Med ? Min Flor or Stn Flor ?

DOUGLAS 4160' (- 1358)

30" CFS @ 4183' Sh Char-Gry-Grn Soft-Fissli w/ \Fos (Fuss) Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn Por Chalk Wht Soft Abd No Odor No Stn Few Pcs Sli ? Min Flor AA Grad No Flor NS

60" CFS @ 4183' Sh Char-Gry-Grn Soft-Fissli w/ \Fos (Fuss) Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn Por Chalk Wht Soft Abd No Odor No Stn Few Pcs Sli ? Min Flor AA Grad No Flor NS

Sh Char-Gry-Grn Soft-Fissli Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn Por Chalk Wht Soft Abd No Odor No Stn Few Pcs Sli ? Min Flor AA Grad No Flor NS

Ls Wht-Crm MicroIn-FxIn Poor-Fair IxIn Por Cht Wht-Tan Op Shp Vit Chalk Wht Soft Abd Sh Char-Gry-Grn Tr/Blk Carb Fissil No Odor No Stn Dec Sli ? Min Flor NS

Ls Wht-Crm MicroIn-FxIn Poor-Fair IxIn Por Cht Wht-Tan Op Shp Vit Chalk Wht Soft Abd Sh Char-Gry-Grn Tr/Blk Carb Fissil No Odor No Stn Dec Sli ? Min Flor NS

LANSING 4216' (-1414)

Ls Wht-Dk Gry MicroIn-FxIn w/ Pin-Pt IxIn Por w/ Fair- Med SG (Under Heat) Even Sat Stn Flor (Lt Grn-Wht) Throught Tray Cht Wht-Tan Op Shp Vit Fos (Crin) Chalk Wht Soft Sh Char-Gry Fissil No Odor SG

30" CFS @ 4251' Ls Wht-Dk Gry MicroIn-FxIn w/ Pin-Pt IxIn Por w/ Fair- Med SG (Under Heat) Even Sat Stn Flor (Lt Grn-Wht) Throught Tray Cht Wht-Tan Op Shp Vit Fos (Crin) Chalk Wht Soft Sh Char-Gry Fissil No Odor SG

60" CFS @ 4251' Ls Wht-Dk Gry MicroIn-FxIn w/ Pin-Pt IxIn Por w/ Fair- Med SG (Under Heat) Even Sat Stn Flor (Lt Grn-Wht-Through Spl.) Cht Wht-Tan-Amber Transl-Op Shp Vit Fos (Crin) Chalk Wht Soft Sh Aqua- Char-Gry Fissil No Odor SG

Sh Char-Gry Fissil Ls Crm-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Chalk Wht Soft Dec No Odor No Stn ? Sli Min Flor Dec NS

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

Ls Crm-Tan MicroIn-FxIn Poor IxIn Por Grad Micritic w/ Pry Includs Chalk Wht Soft Fos (Crin) Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Dec AA NS

Ls Crm FxIn Grad Fair-Med OOM Por OOL Por w/OOL in pl (Wht) Med Dissolu Med Devel med leaching Por Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS

Sh Char-Gry Fissil Ls Crm-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Chalk Wht Soft Dec No Odor No Stn ? Sli Min Flor Dec NS

Chalk Wht Soft V Abd (60% of Spl) Ls Crm-Tan MicroIn-FxIn Poor IxIn Por Grad Micritic Sh Char-Gry-Grn Fissil No Odor No Stn ? V Sli Min Flor NS

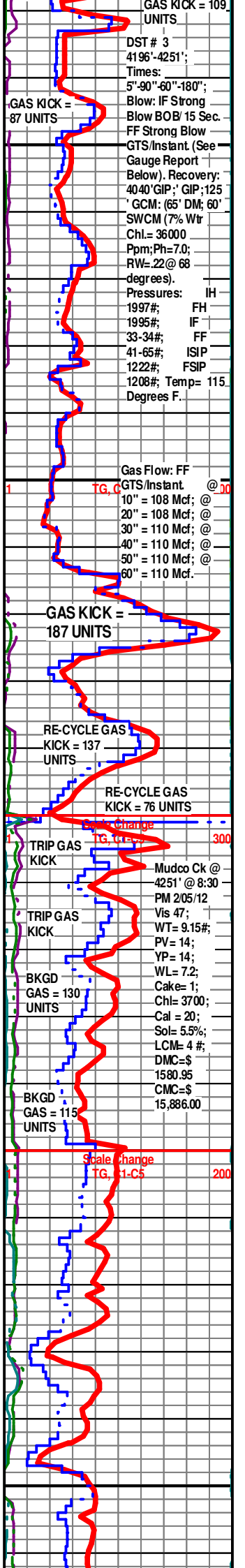
Ls Crm MicroIn-FxIn Poor IxIn Por Grad Micritic Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor NS

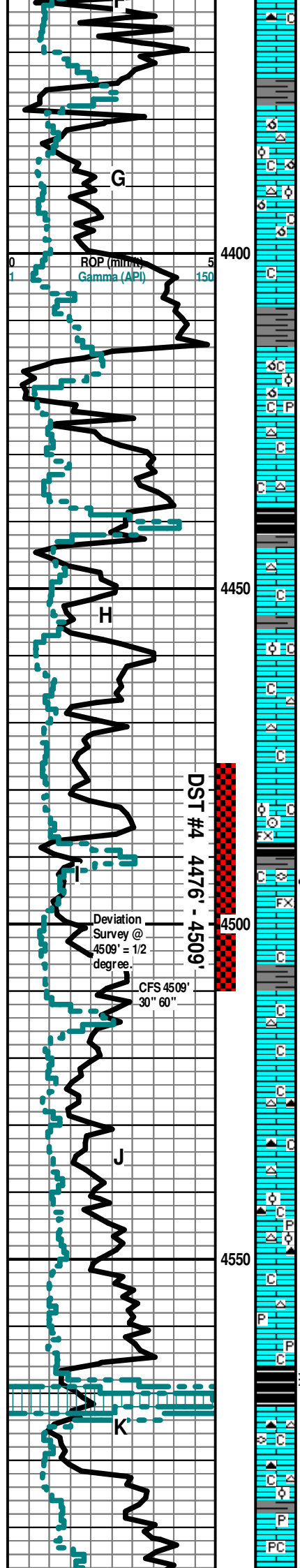
Ls Crm-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Cht Tan-Gry-Char Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh /char-Gry Fissil NS

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

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

Ls Crm-Gry MicroIn-FxIn Poor IxIn Por Micritic Grad Poor OOM Por w/OOL in pl (Brn) Poor Dissolu Poor Devel Cht Tan-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS





Ls Crm MicroIn-FxIn Poor IxIn Por Micritic Cht Gry Op Shp Vit Chalk Wht Soft Fos (Crin) Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS

Ls Crm-Gry MicroIn-FxIn Poor IxIn Por Micritic Grad Poor OOM Por w/OOL in pl (Brn) Poor Dissolu Poor Devel Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS

Ls Crm MicroIn-FxIn Grad Poor OOM Por w/OOL in pl (Wht) Med Dissolu Med Devel Grad Poor IxIn Por Micritic Cht Tan-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS

Ls Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS

Ls Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS

Ls Crm MicroIn-FxIn Grad Poor OOM Por w/OOL in pl (Wht) Med Dissolu Med Devel Grad Poor IxIn Por Micritic w/Pyr Inclus Cht Tan-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS

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

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

Ls Crm MicroIn-FxIn Grad Poor OOL Por w/OOL in pl (Wht) Med Dissolu Med Devel Grad Poor IxIn Por Micritic w/Pyr Inclus Cht Tan-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissil NS

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

Ls Wht Crm FxIn Fair-Med IxIn Pin-Pt Por w/Tr Pry Inclus & Good SG/SFO (Clear-V Lt Brn -Vlt Grn Flor) Ls w/Calcite Overgroth Xls w/ Tr Fair-Good Vug Leaching Por Strong Odor V Chalky Wht Soft Abd Good Cut (Lt Grn Flor) Fos (Crin) Tr Ls Wht w.Poor OOL Por w. OOL in pl Poor Dissolu Poor-Fair Leaching Tr Flor (Lt Grn) Sh Char Fissil Good Odor Med-Good Flor Med-Good Stn SG/SFO

30" CFS @ 4509' Ls Wht Crm FxIn Grad Dns Barren Chalky Wht Soft Abd Fos (Fuss) Sh Char-Gry Tr Only Sli Odor Sli Flor AA NS

60" CFS @ 4509' Ls Wht-Crm FxIn Grad Micritic Dns Barren Chalky Wht Soft Abd Sh Char-Gry No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Grad Micritic Dns Barren Chalky Wht Soft Cht Wht Op Shp Wht Sh Grn-Gry Soft No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Grad Micritic Dns Barren Chalky Wht Soft Cht Wht-Tan-Gry Transl-Op Shp Wht Sh Grn-Gry Soft Inc No Odor No Flor No Stn NS

Ls Crm-Gry FxIn Grad Micritic Dns Barren Chalky Wht Soft Cht Wht-Tan-Gry Transl-Op Shp Wht Sh Grn-Gry Soft No Odor No Flor No Stn NS

Ls Crm-Gry FxIn Poor IxIn Por Micritic Dns Barren AA w/tr Pyr Inclus Grad Tr/ Poor OOL Por Poor InterOOL Por Poor Dissolu Poor Leaching Chalky Wht Soft Cht Wht-Char Op Shp Wht Sh Grn-Gry Soft No Odor No Flor No Stn NS

Ls Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren AA Chalky Wht Soft Cht Wht-Gry Transl-Op Shp Wht Sh Grn w/Pry Inclus-Gry-Char Soft No Odor No Flor No Stn NS

STARK 4564' (- 1762)

Sh Blk Carb-Gry Fissil w/ SG when broken Ls Crm-Gry FxIn Poor IxIn Por Micritic Dns Barren Fos (Fuss) Cht Wht-Gry w/Fos (Fuss Inclus) Op Shp Wht No Odor No Flor No Stn SG in Blk Carb Sh

Ls Wht-Crm FxIn Fair IxIn Por Grad Tr/Poor OOL Por w/ OOL in pl (small) Tr Fair Vug Dissolu Poor-Fair Soring Poor-Tr/Fair Leaching Por Chalky Wht Soft Cht Wht-Gry Transl-Op Shp Wht Sh Grn w/Pry Inclus-Gry-Char Soft No Odor No Flor No Stn NS

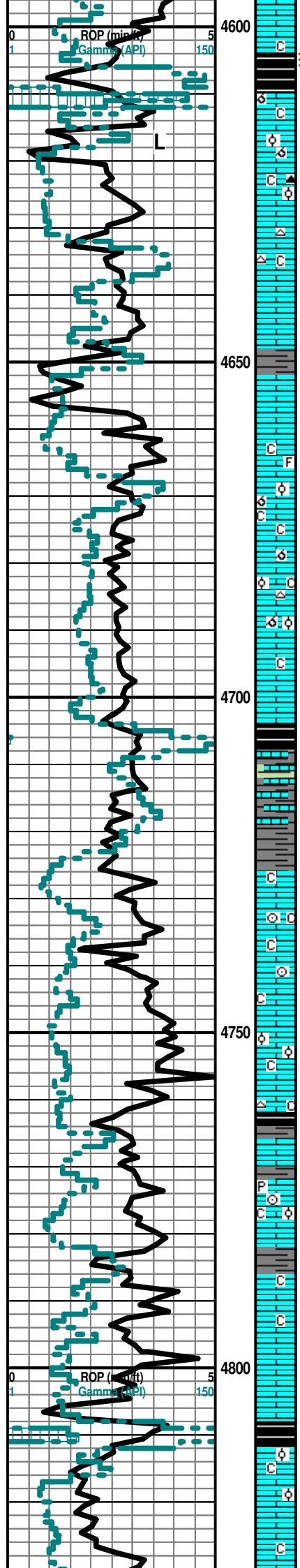
Ls Wht-Crm FxIn Poor IxIn Por Micritic Dns Barren Chalky Wht Soft Sh Char-Gry

DST # 4
4476'-4509';
Times:
5"-90"-75"-180";
Blow: IF Fair Blow
8'@ 5 Min.. FF Fair
Blow BOB@10 Min..
Recovery: 240'
GIP; 75' TF: (5' CO
(37 Grv.); 140' SO &
HWCM (3% Oil, 47%
Wtr., 56% M); 60'
MCW w/Tr Oil (tr/O;
74% Wtr., 26% M),
55' SMCW (98%
Wtr, 1% M). Chl.=
59000 Ppm;
Ph=7.0; RW= 15@
64 degrees).
Pressures: IH
2135#; FH
2135#; IF
49-59#; FF
59-362#; ISIP
1324#; FSIP
1304; Temp= 119
Degrees F.

GAS KICK =
169 Units

Mudco Ck @
4509' @ 11:45
AM 2/06/12
Vis 56; WT=
9.1; PV= 18;
YP= 19;
WL= 6.4;
Cake= 1;
Chl= 3400;
Cal = 20;
Sol= 5.6%.
LCM= 2#;
DMC=\$
1955.90
CMC=\$
17,841.90

EXTRACTOR
MOTOR
BURNED
OUT @ 4520'



Fissil No Odor No Flor No Stn NS

HUSHPUCKNEY 4605' (- 1803)

Sh Blk Carb-Gry Fissil w/ SG when broken Ls Crm-Gry Fxln Poor Ixln Por Micritic Dns Barren Chalky Wht Soft No Odor No Flor No Stn SG in Blk Carb Sh SG

Ls Crm-Gry Fxln Poor Ixln Por Micritic Dns Barren Ls Crm-Gry Fxln Poor Ixln Por Micritic Dns Barren Grad Fair-Med OOM Por w/ OOL (small) in pl Fair Dissolu Fair Leaching Cht Gry w/Abd OOL in pl Op Shp Vit Chalk Wht Soft Sh Blk Carb-Gry Fissil w/ SG when broken AA SSG

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

Sh Gry Tr/Blk Carb Fissil Ls Drk Gry Fxln Poor Ixln Por Micritic Dns Barren Chalky Wht Soft No Odor No Flor No Stn NS

BASE KANSAS CITY 4650' (- 1848)

Sh Gry Tr/Blk Carb Fissil Ls Drk Gry Fxln Poor Ixln Por Micritic Dns Barren Chalky Wht Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor-Fair Ixln Por Chalky Wht Soft Cht Wht-Gry w/Fos (Spic) & OOL in pl Trans-Op Shp Wht Sh Char-Gry Fissil AA No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor-Fair Ixln Por Micritic Dns Barren Grad Fair-Med OOM Por w/ OOL (small) in pl Fair-Med Dissolu (Few Pcs) w/Fair-Med Leaching Cht Wht Op Shp Vit Chalky Wht Soft V Abd Inc Sh Char-Gry Fissil AA No Odor No Flor No Stn NS

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

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

Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic Dns Barren V Abd Chalk Wht Soft Sh Char-Gry-Grn-Blk Carb (? Sluff) Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Gry Fissil-"Gummy-Sof" Ls Gry-Crm Fxln Poor Ixln Por Micritic Dns Barren Chalky Wht Soft V Abd No Odor No Flor No Stn NS

MARMATON 4730' (- 1928)

Ls Wht Fxln Poor Ixln Por Micritic Dns Barren V Abd Chalk Wht Soft Sh Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Micritic Dns Barren Fos (Crin) Chalk Wht Soft Sh Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Micritic Dns Barren Fos (Crin) Chalk Wht Soft Sh Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Brn-Wht Fxln Poor Ixln Por Micritic Dns Barren Grad Poor-Fair OOL Por w/OOL in PI Poor Dissolu Poor-Fair Leaching (Few Pcs) Chalk Wht Soft Sh Gry-Grn-Char Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Gry Fissil-"Gummy-Sof" Ls Gry-Crm Fxln Poor Ixln Por Micritic Dns Barren Cht Wht-Brn (Banded) Trans Shp Vit Chalky Wht Soft Abd No Odor No Flor No Stn NS

Ls Crm-Brn-Wht Fxln Poor Ixln Por Micritic Dns Barren Grad Poor-Fair OOL Por w/OOL in PI Poor Dissolu Poor-Fair Leaching (Few Pcs) Fos (Crin) Chalk Wht Soft Pyr Mass Sh Gry-Grn-Char Fissil No Odor No Flor No Stn NS

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

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

PAWNEE 4808' (- 2006)

Sh Blk Carb-Gry Fissil Ls Crm-Brn-Wht Fxln Poor Ixln Por Micritic Dns Barren Grad Poor OOL Por w/OOL in PI Poor Dissolu Poor Leaching Chalk Wht Soft Sh Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Brn-Wht Fxln Poor Ixln Por Micritic Dns Barren Grad Poor-Fair OOL Por w/OOL in PI Poor Dissolu Poor-Fair Leaching (Few Pcs) Chalk Wht Soft Sh Gry-Blk Carb AA Fissil No Odor No Flor No Stn NS

TG, C1-C5 200

Mudco Ck @ 4601' @ 8:35 AM 2/07/12
Vis 55; WT= 9.2; PV= 18; YP= 18; WL= 7.2; Cake= 1; Chl= 4100; Cal= 20; Sol= 6.2%; LCM= 2#; DMC=\$ 147.20 CMC=\$ 17,989.10

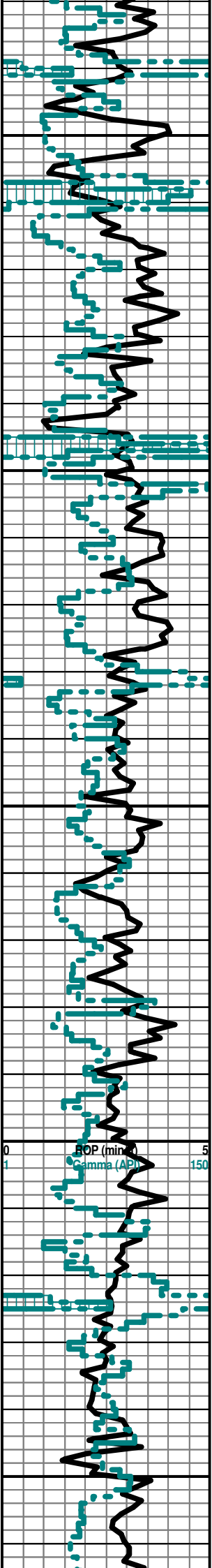
@ 4708' CHANGE OUT EXTRACTOR MOTOR. GAS TEST AT GEO-TRAILER & @ GAS TEST @ EXTRACTOR. BOTH POSITIVE GAS KICKS. UNIT IS BACK UP & RUNNING OK.

Gas Test @ Extractor & GeoTrailer. Unit Is Working.

EXTRACTOR MOTOR BURNED OUT @ 4738'

@ 4772' EXTRACTOR MOTOR CHANGED OUT & UNIT IS BACK UP & RUNNING OK.

Gas Kick = .C5 37 Unit 200



Ls Crm-Wht Fxn Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Sh Blk Carb
Gry Fissil No Odor No Flor No Stn NS

CHEROKEE SHALE 4847' (- 2045)

Sh Blk Carb-Gry Fissil Ls Crm-Brn-Wht Fxn Poor Ixln Por Micritic Dns Barren Grad
Poor OOL Por w/OOL in Pl Poor Dissolu Poor Leaching Cht Wht-Gry Op Shp Vit
Chalk Wht Soft Sh Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht Fxn Poor-Fair Ixln Por Micritic Barren Chalk Wht Soft Fos (Brach) Sh
Blk Carb_Gry Fissil No Odor No Flor No Stn NS

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

Ls Crm-Wht-Gry Fxn Poor Ixln Por Micritic Barren Chalk Wht Soft Cht Gry-Amber
Transl-Op Shp Vit Pyr Mass Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char Fissil V Abd Ls Crm-Wht Fxn Poor Ixln Por Micritic Dns Barren
w/Pry Inclus Tr/Chalk AA No Odor No Flor No Stn NS

Sh Gry-Char-Blk Carb Fissil V Abd Ls Crm-Wht Fxn Poor Ixln Por Micritic Dns
Barren w/Pry Inclus Tr/Chalk AA Cht Amber Transl Shp Vit No Odor No Flor No
Stn NS

Ls Crm-Wht-Gry Fxn Poor Ixln Por Micritic Barren Chalk Wht Soft Cht Gry (w/
OOL Inclus) Op Shp Vit Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Gry Fxn Poor Ixln Por Micritic Barren Chalk Wht Soft Sh Char-Gry-Grn
Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxn Poor Ixln Por Micritic Barren Chalk Wht Soft Sh Char-Gry-Blk
Carb Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxn Poor Ixln Por Micritic Barren Grad Poor OOL Por w/ OOL in
pl No Dissolu No Leaching w/ Pyr Inclus Chalk Wht Soft Sh Char-Gry-Blk Carb
Fissil AA No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxn Poor Ixln Por Micritic Barren Grad V Poor OOL Por w/OOL in
pl No Dissolu No Leaching Chalk Wht Soft Sh Char-Gry-Blk Carb Fissil AA No
Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxn Poor Ixln Por Micritic Barren Cht Amber-Wht (w/Fos (Bry)
Inclus) Chalk Wht Soft Sh Char-Gry-Blk Carb Fissil AA No Odor No Flor No Stn NS

Ls Crm-Gry Fxn Poor Ixln Por Micritic Barren Cht Amber-Wht Chalk Wht Soft Sh
Char-Gry-Blk Carb Fissil AA No Odor No Flor No Stn NS

Ls Crm-Wht Fxn Poor Ixln Por Micritic Dns Barren Chalk AA Cht Amber (w/Fos
(Spic) Inclus) Transl Shp Vit Sh Char-Gry-Blk Carb Fissil No Odor No Flor No Stn
NS

Ls Wht-Crm Fxn Poor Ixln Por Micritic Dns Barren Chalk AA Cht Amber-Gry
Transl Shp Vit Sh Char-Gry-Blk Carb AA Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Fxn Poor Ixln Por Micritic Dns Barren Chalk AA Cht Amber Transl
(w/Fos Inclus) Shp Vit Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Fxn Poor Ixln Por Micritic Dns Barren Chalk Sh Char-Gry Fissil No
Odor No Flor No Stn NS

Ls Gry-Crm Fxn Poor Ixln Por Micritic Dns Barren Cht Amber-Transl Shp Vit Chalk
Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Gry-Crm Fxn Poor Ixln Por Micritic Dns Barren w/Pyr Inclus Cht Tan Op Shp
Vit Chalk Sh Char-Gry-Grn Fissil No Odor No Flor No Stn NS

MORROW 5036' (-2034)

Sh Varicolored Char-Gry-Grn (w/Pyr Inclus)-Red-Olive Fissil Ls Crm-Gry Fxn Poor
Ixln Por Micritic Dns Barren Cht Tan Op Shp Vit Chalk No Odor No Flor No Stn NS

Sh Varicolored Char-Gry-Grn (w/Pyr Inclus)-Red-Olive Fissil Ls Crm-Gry Fxn Poor
Ixln Por Micritic Dns Barren Cht Tan Op Shp Vit Chalk No Odor No Flor No Stn NS

Sh Varicolored Grn-Olive-Aqua-Char-Gry-Maroon Fissil Ls Wht-Crm-Gry Fxn Poor
Ixln Por Micritic Grad Tr OOL Por w/OOL (V Small) in pl Poor Develop Poor
Dissolu Poor Leaching Por Cht Drk Amber Banded Wht Transl-Op Shp Vit Chalk
No Odor No Flor No Stn NS

SH GAS KICK =
65 UNITS

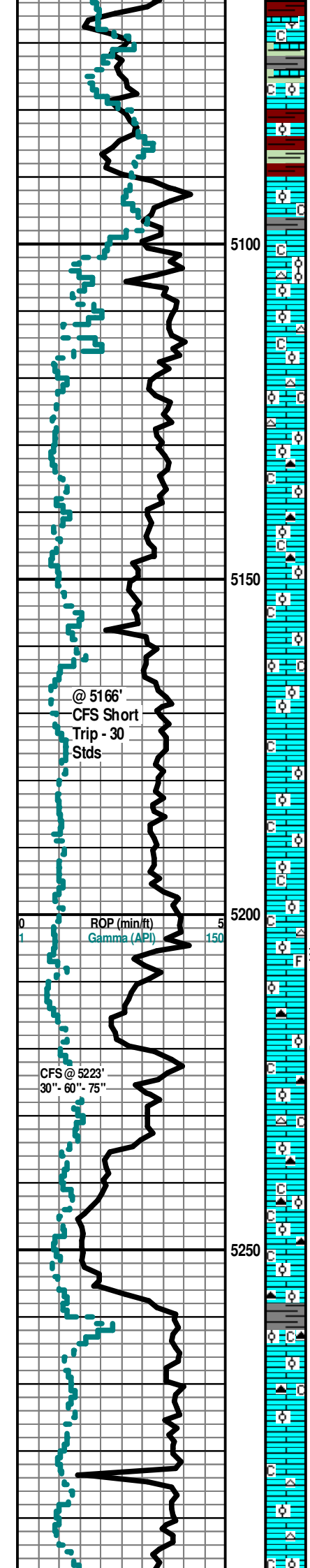
TG, C1-C5 200

SH GAS KICK =
42 UNITS

Bkgd Gas =
24 Units

Gas Inc = 58
Units

Bkgd Gas =



Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic Grad Wht OOL Por w/V Small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Cht Drk Amber Banded Wht Transl-Op Shp Vit Chalk Sh Varicolored Red (Wash Red)-Grn-Aqua w/Pyr Includ-Char-Gry-Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic Grad Wht OOL Por w/V Small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Cht Drk Amber Banded Wht Transl-Op Shp Vit Chalk Sh Varicolored Red (Wash Red)-"Gummy" Grn (Waxy)-Aqua w/Pyr Includ-Char-Gry-Blk Carb Fissil No Odor No Flor No Stn NS

MISSISSIPPIAN 5090' (-2288)

Ls Wht-Crm-Gry-Grn Fxln Poor Ixln Por Grad Wht OOL Por w/V Small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Chalk Sh Varicolored "Gummy" Red (Wash Red)-Grn-Aqua-Char-Gry-Blk Carb Fissil Tr No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Grad Wht OOL Por w/V Small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Cht Shp Vit (Tr Only) Chalk Sh -Char-Gry-Blk Carb-Red Fissil Tr No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Grad Wht OOL Por w/V Small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Cht Tan Op Shp Vit Chalk Sh -Char-Gry-Grn Fissil Tr No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Grad Wht OOL Por w/V Small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Cht Tan Shp Vit Chalk Sh -Char-Grn Fissil Tr No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Grad Wht OOL Por w/V Small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Cht Blk Op Shp Vit Chalk Sh Char-Grn-Red Fissil Tr No Odor No Flor No Stn NS

30" CFS @ 5166' Ls Wht-Crm Fxln Poor Ixln Por Grad Wht OOL Por w/V Small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Cht Blk Op Shp Vit Chalk Sh Char-Gry-Blk Carb-Olive Fissil Tr No Odor No Flor No Stn NS

60" CFS @ 5166' Ls Wht-Crm Fxln Poor Ixln Por Grad Wht OOL Por w/V small OOL in Place "Sandy" OOL Por Poor Inter OOL Por Cht Shp Vit (Tr Only) Chalk Sh -Char-Gry-Blk Carb-Red Fissil Tr No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Grad Wht-Gry-Grn OOL Por w/V small OOL in Place "Sandy" OOL Por Poor Inter OOL Por w/Pyr Includ Chalk Sh Char-Gry-Blk Carb-Grn Fissil Tr No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Grad Wht-Gry-Grn OOL Por w/V small OOL in Place "Sandy" OOL Por Poor Inter OOL Por w/Pyr Includ Chalk Sh Char-Gry-Blk Carb-Grn Fissil Tr No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Grad Wht-Gry-Grn OOL Por w/V small OOL in Place "Sandy" OOL Por Poor Inter OOL Por w/Pyr Includ Chalk Sh Char-Gry-Blk Carb-Grn Fissil Tr No Odor No Flor No Stn NS

ST. LOUIS "B" 5206' (- 2402)

30" CFS @ 5223' Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic Grad Wht OOL Por w/Med-Lg OOL in Place "Sandy" OOL Por Poor-Fair Inter OOL Por Friable Grad Fxln Sucrosic Por Cht Clear Transl Vit Shp w/Fos (Spic) Includ Chalk Wht Soft Abd Sh Char-Gry Sli Odor Sli ? Flor Stn (Pale Grn) w/SSG

60" CFS @ 5223' Ls Wht Fxln Ixln OOL Por w/Med OOL in Place "Sandy" OOL Por Friable Poor-Fair Inter OOL Por Cht Amber Transl Vit Shp Sh Char-Gry V Faint Odor Sli ? Min Flor Stn (Pale Grn) NS

75" CFS @ 5223' Ls AA Small-Med OOL Por Poor Inter OOL Por w/SSG/SSO (1 Pc) w. Tr (SO when broken) Poor Vug Leaching Poor Dissolu Sh Char-Gry-Grn-Aqua Faint Odor Sli ? Min Flor (Few Pcs) ? VSSG.VSSO

ST. LOUIS LOWER "B" POR 5234' (- 2432)

Ls Crm-Wht Fxln Grad Poor Ixln Por Micritic Cht Tan-Gry Transl-Op Shp Vit Chalk Wht Soft V Abd Sh Char-Gry-Grn-Aqua No Odor No Stn No-Tr V Sli ? Min Flor NS

Ls Crm-Wht Fxln Grad Poor Ixln Por Micritic Cht Tan-Gry Transl-Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn-Aqua No Odor No Stn No-Tr V Sli ? Min Flor NS

Ls Crm-Wht Fxln Grad Poor Ixln Por Micritic Cht Amber Transl-Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn No Odor No Stn No-Tr V Sli ? Min Flor NS

Ls Crm-Wht Fxln Grad Poor Ixln Por Micritic Cht Amber Transl-Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn No Odor No Stn No-Tr V Sli ? Min Flor NS

Ls Crm-Wht Fxln Grad Poor Ixln Por Micritic Cht Amber Transl-Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn No Odor No Stn No-Tr V Sli ? Min Flor NS

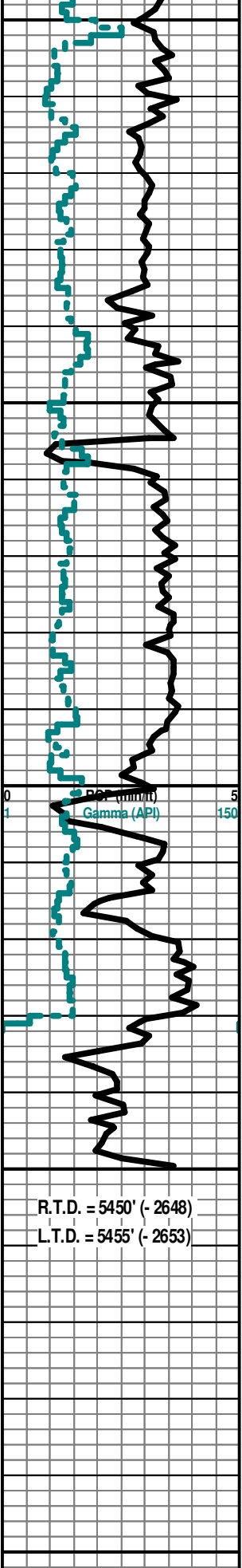
Ls Crm-Wht-Sli Grn Fxln Grad Poor Ixln Por Micritic Cht Wht Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn No Odor No Stn No-Tr V Sli ? Min Flor NS

Ls Crm-Wht-Sli Grn Fxln Grad Poor Ixln Por Micritic Cht Wht Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn No Odor No Stn No-Tr V Sli ? Min Flor NS

Mudco Ck @ 5075' @ 11:15 AM 2/08/12
Vis 49; WT= 9.2#; PV= 16; YP= 17; WL= 6.4; Cake= 1; Chl= 3100; Cal = 20; Sol= 6.3%; LCM= 2.5 #; DMC=\$ 3532.45; CMC=\$ 21,521.55

TG, C1-C5 200

Lighter Gas Test @ Extractor @ 5276' Lag Depth = 5265' Unit Working Properly.



Ls Crm-Wht-Gry Fxln Grad Poor Ixln Por Micritic Grad MicroOOL Por Fxln Dec AA
 Cht Tan-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn-Grn No Odor No Stn
 No-Tr V Sli ? Min Flor NS

Ls Crm-Wht-Gry Fxln Grad Poor Ixln Por Micritic Grad MicroOOL Por Fxln Dec AA
 Cht Tan-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn-Grn No Odor No Stn
 No-Tr V Sli ? Min Flor NS

Ls Crm-Wht-Gry Fxln Grad Poor Ixln Por Micritic Grad MicroOOL Por Fxln Dec AA
 Cht Tan-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn-Grn No Odor No Stn
 No-Tr V Sli ? Min Flor NS

Ls Crm-Wht-Gry Fxln Grad Poor Ixln Por Micritic Cht Tan-Gry Op Shp Vit Chalk
 Wht Soft Sh Char-Gry-Grn-Grn No Odor No Stn No-Tr V Sli ? Min Flor NS

Sh Varicolored Aqua-Red-Char-Gry- Blk Carb-Olice Fissil Ls Crm-Gry Fxln Micritic
 tr MicroOOIL Grad Ls Gry Fxln Micritic Cht Wht Op Shp Vit Fos (Brach) No Odor
 No Stn No Flor NS

ST. LOUIS "C" MARKER 5355' (- 2553)

Sh Varicolored Aqua-Red-Char-Gry- Blk Carb-Olice Fissil Ls Crm-Gry Fxln Micritic
 tr MicroOOIL Grad Ls Gry Fxln Micritic Cht Wht Op Shp Vit Fos (Brach) No Odor
 No Stn No Flor NS

Sh Varicolored Aqua-Red-Char-Gry- Blk Carb-Olice Fissil Ls Crm-Gry Fxln Micritic
 tr MicroOOIL Grad Ls Gry Fxln Micritic Cht Wht Op Shp Vit Fos (Brach) No Odor
 No Stn No Flor NS

Sh Varicolored Aqua-Red-Char-Gry- Blk Carb-Olice Fissil Ls Crm-Gry Fxln Micritic
 tr MicroOOIL Grad Ls Gry Fxln Micritic Cht Wht Op Shp Vit Fos (Brach) No Odor
 No Stn No Flor NS

Sh Varicolored Aqua-Red-Char-Gry- Blk Carb-Olice Fissil Ls Crm-Gry Fxln Micritic
 tr MicroOOIL Grad Ls Gry Fxln Micritic Cht Wht Op Shp Vit Fos (Brach) No Odor
 No Stn No Flor NS

SALEM (SPERGEN) 5399' (- 2597)

Dolo Gry Fxln Dns Micrite Grad Poor Sucrosic Por Poor Ixln Por Tr/Ls Crm-Gry
 Fxln Micritic Cht Wht Op Shp Vit Sh Varicolored No Odor No Stn No Flor NS

Dolo/Ls Crm-Gry Fxln Dns Micrite Grad Poor Sucrosic Por Poor Ixln Por Cht Wht
 Op Shp Vit Sh Varicolored No Odor No Stn No Flor NS

Dolo/Ls Crm-Gry Fxln Dns Micrite Grad Poor Sucrosic Por Poor Ixln Por Cht Wht
 Op Shp Vit Sh Varicolored No Odor No Stn No Flor NS

SALEM (SPERGEN) POROSITY 5399' (-2597)

30" CFS @ 5450' Dolo/Ls Crm-Gry Fxln Dns Micrite Grad Poor Sucrosic Por Poor
 Ixln Por Cht Wht Op Shp Vit Sh Varicolored No Odor No Stn No Flor NS

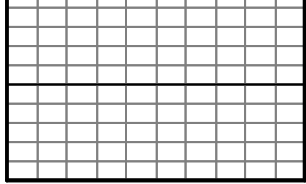
60" CFS @ 5450' Dolo/Ls Crm-Gry Fxln Dns Micrite Grad Poor Sucrosic Por Poor
 Ixln Por Cht Wht Op Shp Vit Sh Varicolored No Odor No Stn No Flor NS

ELECTRIC LOGS By LOGTECH, INC.: DUAL COMP. POROSITY; DUAL
 INDUCTION; BOREHOLE COMPENSATED SONIC; MICRORESISTIVITY; GAMMA
 RAY-NEUTRON (CASED HOLE).

Geologist Left Location @ 4:10 AM 2-10-12

Mudco Ck @
 5391' @ |
 11:10 AM |
 2/09/12 Vis |
 53; WT= |
 9.3; PV= 17; |
 YP= 21; |
 WL= 6.8; |
 Cake= 1; |
 Cht= 3600; |
 Cal = 20; |
 Sol= 6.9%. |
 LCM= 4#; |
 DMC=\$ |
 1828.75 |
 CMC=\$ |
 23,350.30

R.T.D. = 5450' (- 2648)
 L.T.D. = 5455' (- 2653)



5550

