



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1077284  
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: \_\_\_\_\_

1077284

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

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

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Damme 7-21
Doc ID	1077284

All Electric Logs Run

Array Induction Shallow Focused Electric Log
Compact Photo Density Compensated Neutron Microresistivity Log
Compensated Sonic With Integrated Transit time
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Damme 7-21
Doc ID	1077284

Tops

Name	Top	Datum
Heebner	3819	-910
Lansing	3862	-953
KS City	4205	-1296
Marmaton	4373	-1464
Pawnee	4452	-1543
Ft Scott	4482	-1573
Cherokee	4496	-1587
Atoka	4595	-1686
Morrow	4688	-1779
Mississippi	4759	-1850
RTD	4900	
LTD	4892	

# ALLIED CEMENTING CO., LLC. 035943

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
GREAT BEND

DATE <u>2-14-12</u>	SEC. <u>21</u>	TWP. <u>22S</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION <u>5:45 AM</u>	JOB START <u>4:00 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>DAMME</u>	WELL # <u>7-21</u>	LOCATION <u>TENNIS + 83 Hwy 25-2W-1S</u>			COUNTY <u>FENNEY</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)		<u>1 1/2 W - NEW INTO</u>					

CONTRACTOR Beredco Rig # 2 OWNER SAME

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 1765'

CASING SIZE 8 7/8" DEPTH 1767.19'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.63

CEMENT LEFT IN CSG. 42.63

PERFS. \_\_\_\_\_

DISPLACEMENT 109.85 BB/S

CEMENT

AMOUNT ORDERED 150 SKS COM 3% CC

650 SKS LITE 3% CC 1/4" # FLO-SEAL

COMMON	<u>150 SKS</u>	@	<u>16 25</u>	<u>2437 50</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>26 SKS</u>	@	<u>58 20</u>	<u>1513 20</u>
ASC		@		
LITE TYPE 2	<u>650 SKS</u>	@	<u>14 50</u>	<u>9425 00</u>
FLO-SEAL	<u>163 #</u>	@	<u>2 20</u>	<u>440 10</u>
HANDLING	<u>877 SKS</u>	@	<u>2 25</u>	<u>1973 25</u>
MILEAGE	<u>114 PER SK/MI/E</u>			<u>4823 50</u>
TOTAL				<u>22112 50</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER TERRY

# 366 HELPER WAYNE GREAT BEND

BULK TRUCK

# 373-308 DRIVER TYLER

BULK TRUCK

# 394-282 DRIVER BELLY

**REMARKS:**

MIX 650 SKS LITE 3% CC 1/4" # FLO-SEAL

150 SKS CLASS "A" 3% CC DISPLACE

109.85 BB/S WATER Plug Landed AT

1000 PSI. FLOAT HELD.

CEMENT did circulate

THANK YOU

CHARGE TO: BEREX CO, INC

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB	<u>1767.19'</u>		
PUMP TRUCK CHARGE			<u>1925 00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>50 ME</u>	@	<u>7 00</u> <u>350 00</u>
MANIFOLD + HEAD		@	<u>200 00</u>
LIGHT VEHICLE M=50		@	<u>4 00</u> <u>200 00</u>
TOTAL <u>2675 00</u>			

**8 7/8" PLUG & FLOAT EQUIPMENT**

1-GUIDE SHOE			<u>254 00</u>
1-INSERT		@	<u>175 00</u>
2-BASKET		@	<u>243 00</u> <u>486 00</u>
4-CENTRALIZER		@	<u>50 00</u> <u>200 00</u>
1-rubber plug		@	<u>84 00</u>
TOTAL <u>1199 00</u>			

To Allied Cementing Co., 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 Scott Bahr

SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 25,986.55

DISCOUNT 24% 6,236.70

IF PAID IN 30 DAYS

19,749.85



# ALLIED CEMENTING CO., LLC. 035349

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

*Bottom Stage 12:30-1:30pm* *Dakota* *22711*

DATE <i>2/26/12</i>	SEC. <i>21</i>	TWP. <i>22</i>	RANGE <i>33</i>	CALLED OUT	ON LOCATION <i>3:00pm</i>	JOB START <i>4:30</i>	JOB FINISH <i>5:30</i>
LEASE <i>demme</i>	WELL # <i>7-21</i>		LOCATION <i>Garden City - N 70 Easton 2W</i>		COUNTY <i>Finney</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)			<i>1 S 1W New into</i>				

CONTRACTOR *Bureco 10* OWNER *Same*

TYPE OF JOB *Production 2 Stage* CEMENT *Bottom 120 SKs 8LW 1/4 Flo Seal*

HOLE SIZE *7 7/8* T.D. *4900* AMOUNT ORDERED *175 SKs ASC 107 SKs 27 SKs 26 SKs 27 SKs*

CASING SIZE *5 1/2* DEPTH *4882 4882* TOP - *395 SKs ALW 1/4 Flo Seal*

TUBING SIZE DEPTH *50 SKs 00m*

DRILL PIPE *4 1/2* DEPTH *3115 - 3094 ft*

TOOL *DV 7001* DEPTH *3115 - 3094 ft*

PRES. MAX MINIMUM COMMON *50 SKs @ 16.25 812.50*

MEAS. LINE SHOE JOINT *42.2* POZMIX @

CEMENT LEFT IN CSG. *42.2* GEL @

PERFS. *Bottom Disp. - 41 H<sub>2</sub>O - 28.0 Big Mand* CHLORIDE @

DISPLACEMENT *Top - 24 H<sub>2</sub>O* ASC *175 SKs @ 19.00 3325.00*

EQUIPMENT ALW *515 SKs @ 14.25 7426.50*

PUMP TRUCK CEMENTER *Alan* Flo Seal *12916 @ 2.70 3482.00*

# *422* HELPER *Wayne* Sulf *16 SKs @ 23.92 383.00*

BULK TRUCK DRIVER *Ethan* Silicate *10500 @ .89 934.50*

# *347* DRIVER *Brandon*

BULK TRUCK DRIVER *Chris*

# *373* DRIVER *Chris*

# *394* REMARKS: *Handling 831 SKs @ 2.05 1869.25*

MILEAGE *145K/mile 4570.50*

TOTAL *19720.25*

REMARKS: *In City Circulate, Mix 120 SKs ALW 1/4 175 SKs ASC, Wash Truck & Lines*

*Displace Plug to 4882 ft w/ 1000 PSI, Top Closed. Plug Did NOT*

*and Pumped 3700 over Perfect Per Company Meter. Bottom Float Held.*

*Drop Opening Tool, Op. Tool, Circulate w/ Reg. Max 30 SKs*

*2 1/2" 15 SKs Mand. Max 380 SKs ALW 1/4 Flo Seal Pump Truck Charge*

*2 1/2" Wash Truck & Lines Displace Plug w/ 24" 1000 PSI*

*2 1/2" 800 PSI USFT Land Plug @ 1800 PSI, Top Closed*

*Cement Did Go into Tank & Vehicle*

*w/ 50 SKs Com*

*Thank You Alan, Wayne, Chris Ethan, Brandon*

CHARGE TO: *Bureco*

STREET \_\_\_\_\_ TOTAL *2255.00*

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

D.V. Tool	1 @	2832.00
Float Shoe - AFU	1 @	232.00
Latch Bar Assembly	1 @	184.00
Controlizers	10 @	37.00
Barlito	2 @	178.00
		TOTAL <i>3974.00</i>

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_

SIGNATURE *Wayne*

To Allied Cementing Co., 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.

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 04, 2012

Evan Mayhew  
BEREXCO LLC  
2020 N. BRAMBLEWOOD  
WICHITA, KS 67206-1094

Re: ACO1  
API 15-055-22123-00-00  
Damme 7-21  
SW/4 Sec.21-22S-33W  
Finney 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,  
Evan Mayhew





**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.

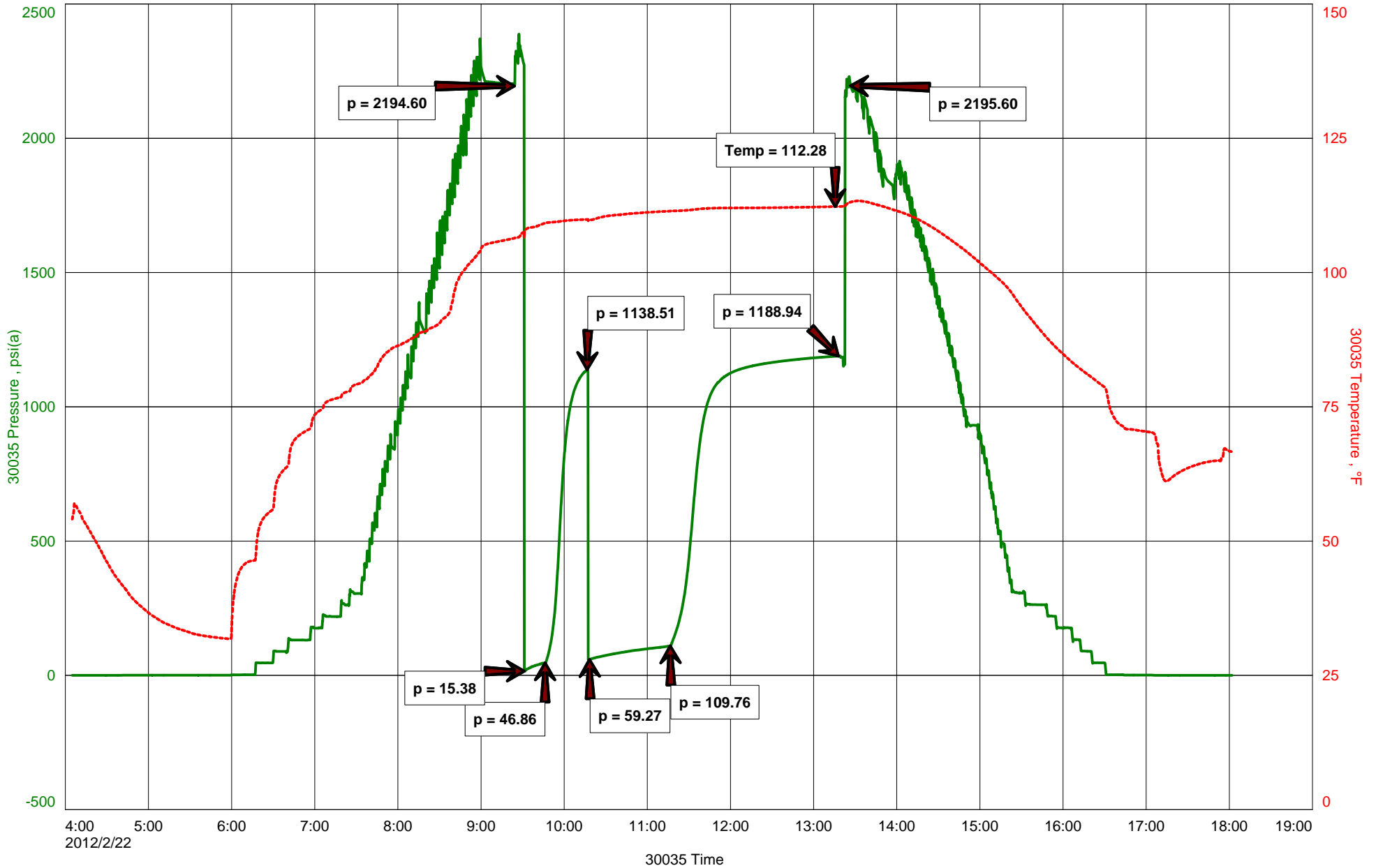
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Berexco LLC  
DST #1 Marrow 4686-4738'  
Start Test Date: 2012/02/22  
Final Test Date: 2012/02/22

Damme #7-21  
Formation: DST #1 Marrow 4686-4738'  
Pool: Wildcat  
Job Number: S0100

# Damme #7-21



# Diamond Testing

## General information Report

### General Information

**Company Name** Berexco LLC

<b>Contact</b>	Evan Mayhew	<b>Job Number</b>	S0100
<b>Well Name</b>	Damme #7-21	<b>Representative</b>	Jacob McCallie
<b>Unique Well ID</b>	DST #1 Marrow 4686-4738'	<b>Well Operator</b>	Berexco LLC
<b>Surface Location</b>	SEC 21-22S-33W Finney County	<b>Report Date</b>	2012/02/22
<b>Well License Number</b>		<b>Prepared By</b>	Jacob McCallie
<b>Field</b>	Damme		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	Drill Stem Test		
<b>Formation</b>	DST #1 Marrow 4686-4738'		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	04:05:00
		<b>Final Test Time</b>	18:03:00
<b>Start Test Date</b>	2012/02/22		
<b>Final Test Date</b>	2012/02/22		
<b>Gauge Name</b>	30035		
<b>Gauge Serial Number</b>			

### Test Results

#### RECOVERED:

624'	GIP	
30'	Gas Cut Oil Specked Mud	3% Gas 2% Oil 95% Mud
188'	Gassy Muddy Oil	22% Gas 40% Oil 38% Mud
218'	TOTAL FLUID	

#### TOOL SAMPLE:

3% Gas 42% Oil 4% WTR 51% Mud





**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.  
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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.  
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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.







# Diamond Testing

## General information Report

### General Information

**Company Name** Berexco LLC

<b>Contact</b>	Evan Mayhew	<b>Job Number</b>	S0101
<b>Well Name</b>	Damme #7-21	<b>Representative</b>	Jacob McCallie
<b>Unique Well ID</b>	DST #2 4738-4748' Marrow	<b>Well Operator</b>	Berexco LLC
<b>Surface Location</b>	SEC 21-22S-33W Finney County	<b>Report Date</b>	2012/02/23
<b>Well License Number</b>		<b>Prepared By</b>	Jacob McCallie
<b>Field</b>	Damme		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	Drill Stem Test		
<b>Formation</b>	DST #2 4738-4748' Marrow		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	07:56:00
		<b>Final Test Time</b>	22:53:00
<b>Start Test Date</b>	2012/02/23		
<b>Final Test Date</b>	2012/02/23		
<b>Gauge Name</b>	30035		
<b>Gauge Serial Number</b>			

### Test Results

#### RECOVERED:

1023'	GIP		
173'	Oily Mud	40% OIL	60% MUD
186'	Muddy Oil	65% Oil	35% MUD
186'	CO	100% Oil	GRAVITY: 32 @ 60 degrees F
93'	Mud/Gas Cut WTR Oil	18% Gas	38% Oil 31% WTR 13% Mud
638'	TOTAL FLUID		

Ph: 7  
Chlorides: 22,000 ppm

#### TOOL SAMPLE:

98% Oil 1% WTR 1% Mud





**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.





# Diamond Testing

## General information Report

### General Information

**Company Name** Berexco LLC

<b>Contact</b>	Evan Mayhew	<b>Job Number</b>	S0102
<b>Well Name</b>	Damme #7-21	<b>Representative</b>	Jacob McCallie
<b>Unique Well ID</b>	DST #3 Morrow 4748-4758'	<b>Well Operator</b>	Berexco LLC
<b>Surface Location</b>	SEC 21-22S-33W Finney County	<b>Report Date</b>	2012/02/24
<b>Well License Number</b>		<b>Prepared By</b>	Jacob McCallie
<b>Field</b>	Damme		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	Drill Stem Test		
<b>Formation</b>	DST #3 Morrow 4748-4758'		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	08:39:00
		<b>Final Test Time</b>	21:05:00
<b>Start Test Date</b>	2012/02/24		
<b>Final Test Date</b>	2012/02/24		
<b>Gauge Name</b>	30035		
<b>Gauge Serial Number</b>			

### Test Results

#### RECOVERED:

1767'	GIP				
359'	Clean Oil	100% CO			GRAVITY: 32 @ 60 degrees F
186'	WTR/GAS Cut Oily Mud	21% GAS	30% OIL	14% WTR	35% MUD
545	TOTAL FLUID				

Ph: 7

Chlorides: 8,000 ppm

#### TOOL SAMPLE:

4% GAS 39% OIL 20% WTR 37% MUD

# JUSTIN D. CARTER

## CONSULTING GEOLOGIST

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

Well Name: DAMME #7-21  
Location: SE, SW, NE, SW Sec. 21 - 22S - 33W Finney Co., KS  
License Number: 15-055-22123-0000  
Spud Date: 02/11/12  
Surface Coordinates: 1562' FSL & 1726' FWL  
X: 1295179, Y: 539969  
Region: Damme  
Drilling Completed: 02/25/12  
Bottom Hole Coordinates:  
Ground Elevation (ft): 2897' K.B. Elevation (ft): 2909'  
Logged Interval (ft): 3700' To: 4900' Total Depth (ft): 4900'  
Formation: MARMATON, MORROW, MISSISSIPPIAN  
Type of Drilling Fluid: Chemical Mud

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: BEREXCO LLC  
Address: 2601 NW Expressway, Ste. 1100E  
Oklahoma City, OK 73112  
Co. Geo.: Mr. Pete Wilson

### GEOLOGIST

Name: Justin D. Carter  
Company: Justin D. Carter, Geologist  
Address: 5945 Westridge Dr.  
Great Bend, KS 67530  
Home: 620-603-6399, Cell: 620-655-1187

### COMMENTS

Drilling Contractor: Beredco Drilling Rig #2  
Tool Pusher: Scott Batman

8 5/8" surface casing set at 1765'  
5 1/2" production casing set at 4900'

Mud: Mudco  
Engineer: Tony Maestas

Gas Detector: Earth Tech OGL, Inc.

Testing: Diamond Testing  
Tester: Jacob McCallie

Open-Hole Loggers: Weatherford



**DST #1**

**4686' - 4738' LOWER MORROW**

**Times: 15-30-60-120**

**IF: 1/2" BLOW, BUILT TO 4.5"**

**ISI: NO BB**

**FF: 1" BLOW, BUILT TO BB IN 23 MIN.**

**FSI: 1/4" BB**

**IF: 15-47**

**FF: 59-110**

**SIP: 1139-1189**

**IH: 2195**

**FH: 2196**

**RECOVERY 218' TOTAL**

**30' GCOM (3% GAS, 2% OIL, 95% MUD)**

**188' GMO (22% GAS, 40% OIL, 38% MUD)**

**624' GIP**

**BHT: 112 DEG**

**DST #2**

**4738' - 4748' LOWER MORROW**

**Times: 15-30-60-120**

**IF: 2" BLOW, BUILT TO BOB IN 10.5 MIN.**

**ISI: 1 1/4" BB**

**FF: 5" BLOW, BUILT TO BOB IN 5.5 MIN.**

**FSI: BOB BB**

**IF: 15-41**

**FF: 103-234**

**SIP: 1205-1213**

**IH: 2220**

**FH: 2218**

**RECOVERY 638' TOTAL**

**186' CLEAN OIL (GRAV=32 DEG)**

**186' MO (65% OIL, 35% MUD)**

**173' OM (40% OIL, 60% MUD)**

**93' M&GCWO (18% GAS, 31% WATER, 13% MUD, 38% OIL)**

**1023' GIP**

**PH: 7.0, CHL: 22,000**

**BHT: 116 DEG**

### DST #3

4748' - 4758' LOWER MORROW

Times: 15-30-60-120

IF: 1/2" BLOW, BUILT TO BOB IN 6.5 MIN.

ISI: BOB BB

FF: 2.5", BUILT TO BOB IN 5 MIN.

FSI: BOB BB

IF: 18-69

FF: 87-167

SIP: 1145-1170

IH: 2246

FH: 2243

RECOVERY 545' TOTAL

359' CLEAN OIL (GRAV=32 DEG)

186' W&GCOM (21% GAS, 30% OIL, 14% WATER, 35% MUD)

1767' GIP

PH: 7.0, CHL: 8,000

BHT: 115 DEG

### ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	SltysH
	Lms

### ACCESSORIES

#### FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom
	Fuss
	Oomold

#### 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
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Chlorite
	Dol
	Sand
	SltY

	Dol
	Grysh
	Gryslt
	Lms
	Sandylms
	Sh
	Sltstn

#### STRINGER

	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg
	Carbsh
	Clystn

#### TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

OTHER SYMBOLS

INTERVALS

- Core
- Dst

■ Dst

OIL SHOWS

- Even
- Spotted

⊙ Ques

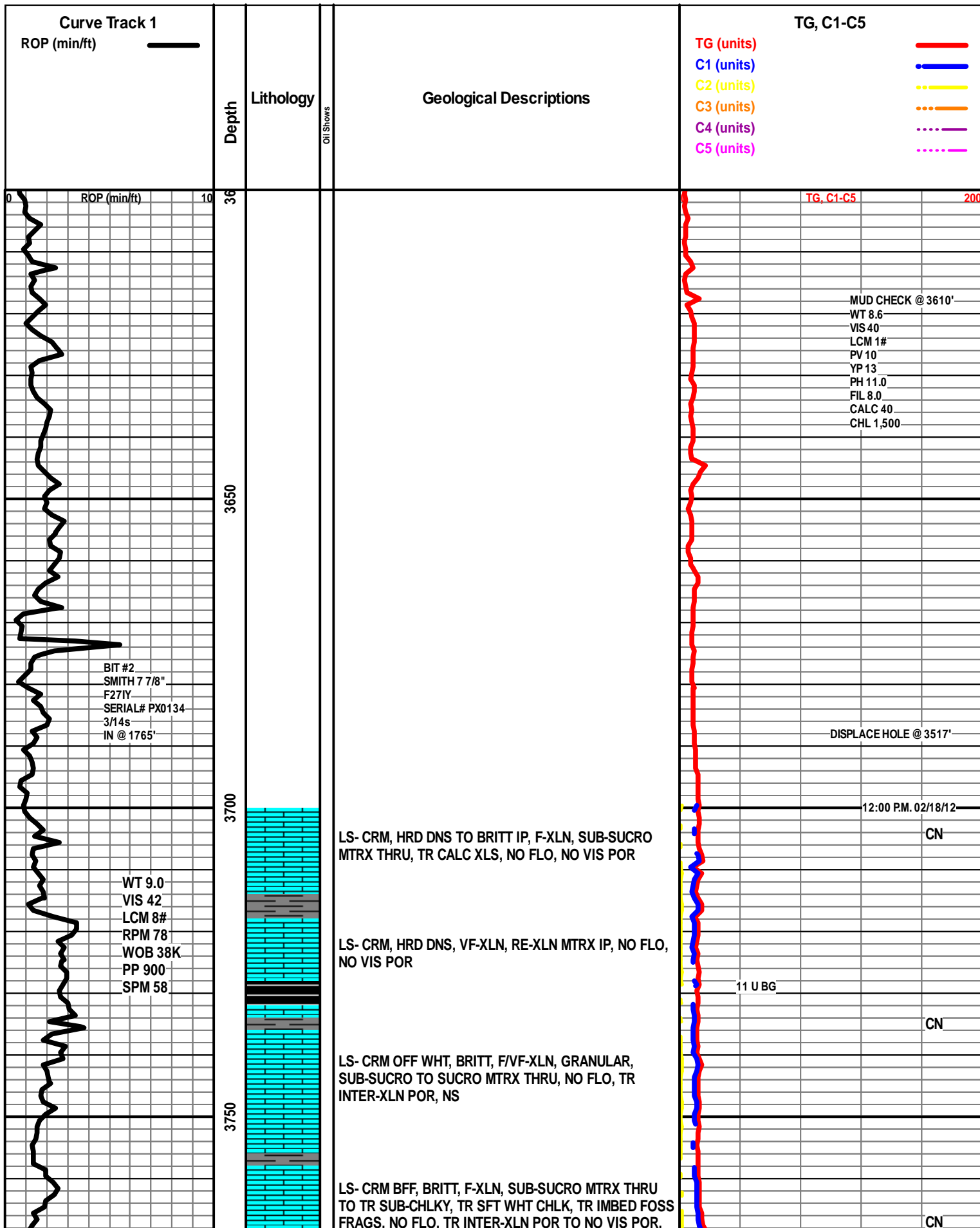
⊠ Dead

⊞ Gas show

Ques

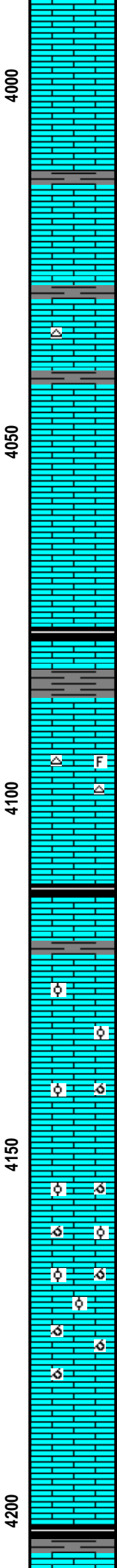
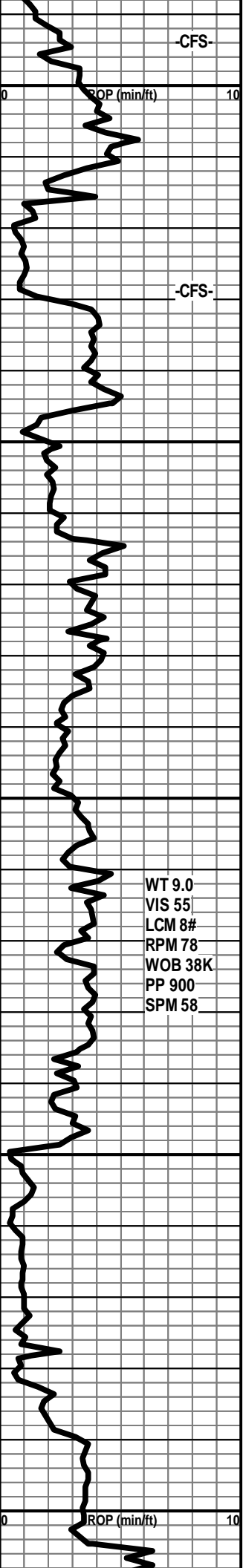
Dead

Gas show









INTER-XLN POR IN CORSE GRNS, NS

LS- CRM BFF, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- CRM, BRITT, VF-XLN, SUB-SUCRO MTRX THRU, TR FOSS FRAGS, VUGS SCAT THRU, NO FLO, FR INTER-VUG POR SCAT THRU, NS

LS- BFF, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, TR WHT CHRT, NO FLO, NO VIS POR

LS- LT CRM WHT, BRITT, F/VF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, NO FLO, PR INTER-XLN POR IP, NS

LS- LT CRM OFF WHT, HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, NO FLO, NO VIS POR

LS- TN LT GY, HRD DNS TO BRITT IP, VF-XLN, SUB-SUCRO MTRX IP TO TR RE-XLN, TR FOSS FRAGS, TR YEL FLO, NO VIS CUT, TR INTER-FOSS POR TO NO VIS POR, TR STAIN, NO ODOR

LS- LT GY, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

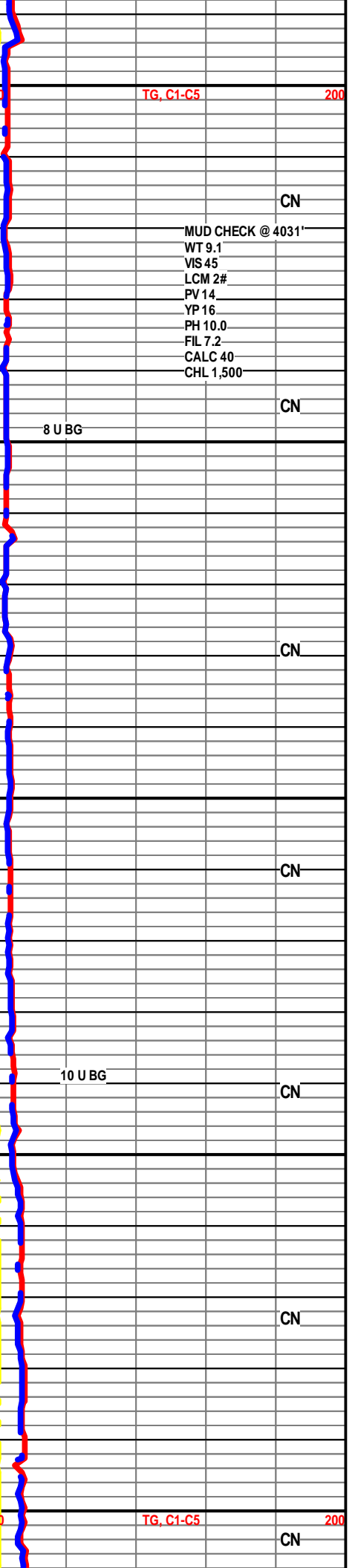
LS- CRM OFF WHT, HRD DNS, VF-XLN, SUB-SUCRO MTRX, WELL CMNT OOL SCAT THRU, NO FLO, NO VIS POR

LS- WHT LT CRM, BRITT, F/VF-XLN, SUB-SUCRO MTRX IP TO SUB-CHLKY IP, OOL SCAT THRU, NO FLO, TR OOMLD POR TO PR INTER-OOL POR, NS

LS- WHT LT CRM, BRITT, F/VF-XLN, SUB-SUCRO MTRX THRU, TR OOL, OOMOLDS THRU, SCAT YEL FLO, NO VIS CUT, FR OOMOLD POR THRU, NS

LS- LT CRM, BRITT, VF-XLN, SUB-SUCRO MTRX THRU, OOMOLD THRU, TR OOL, NO FLO, PR/FR OOMOLD POR THRU, NS

LS- CRM BFF, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR



WT 9.0  
VIS 55  
LCM 8#  
RPM 78  
WOB 38K  
PP 900  
SPM 58

TG, C1-C5 200

CN

MUD CHECK @ 4031'  
WT 9.1  
VIS 45  
LCM 2#  
PV 14  
YP 16  
PH 10.0  
FIL 7.2  
CALC 40  
CHL 1,500

CN

8 U BG

CN

CN

10 U BG

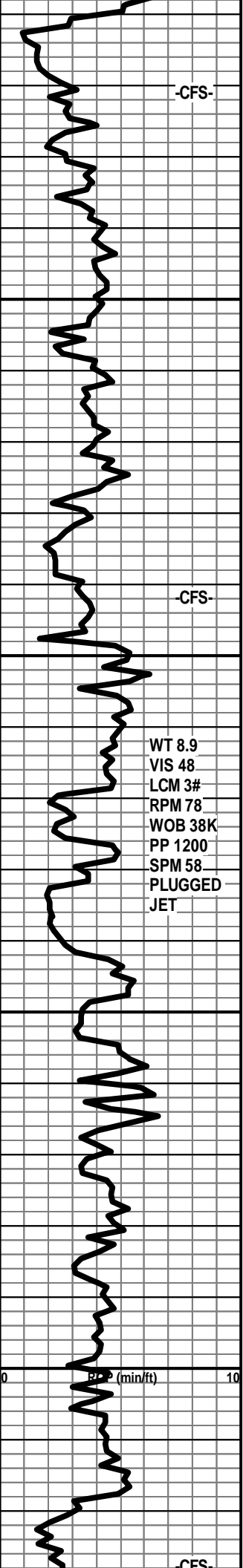
CN

CN

TG, C1-C5 200

CN

KANSAS CITY 4205' (-1296')



-CFS-

4250

-CFS-

4300

WT 8.9  
 VIS 48  
 LCM 3#  
 RPM 78  
 WOB 38K  
 PP 1200  
 SPM 58  
 PLUGGED  
 JET

4350

4400

0 10  
 min/ft

-CFS-

LS- BRN TN, HRD DNS TO BRITT IP, VF-XLN, SUB-SUCRO MTRX THRU, WELL TO MOD CMNT OOL THRU, TR OOMOLDS, NO FLO, NO VIS CUT, PR INTER-OOL POR IP TO TR OOMOLD POR, NS

LS- LT CRM, BRITT TO HRD DNS, VF-XLN, SUB-SUCRO MTRX IP TO TR RE-XLN, TR OOL, TR OOMOLDS, NO FLO, TR OOMOLD POR TO TR PINPT POR, NS

LS- BFF TN, HRD DNS, VF-XLN, SUB-SUCRO TO SUCRO MTRX THRU TO TR RE-XLN, SLI DOLOMITIC IP, NO FLO, NO VIS POR

LS- LT GY, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

LS- LT CRM LT GY, HRD DNS, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO IP, NO FLO, NO VIS POR

LS- CRM LT GY OFF WHT, MOTT, VF-XLN, SUB-SUCRO MTRX, OOMOLDS SCAT THRU, DK GY WELL CMNT OOL IP, TR LAM BLK SH, NO FLO, PR OOMOLD POR IP, NS

LS- LT TN, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

LS- WHT, BRITT, VF-XLN, SUB-SUCRO MTRX THRU, OOMOLDS SCAT THRU, TR GY OOL, NO FLO, FR OOMOLD POR THRU, NS

LS- CRM GY, SLI MOTT, HRD DNS TO BRITT, VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN, WELL CMNT DK GY OOL IP, TR MD CALC XLS, NO FLO, PR OOMOLD POR IP, NS

SLTST- DK GY GY, FRM, VF-GRNS, NO VIS POR

SH- DK GY BLK, FRM, LMY THRU, CARB, FISS IP

**MARMATON 4373' (-1464')**

LS- CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

LS- LT BRN, HRD DNS, VF-XLN TO TR MD-XLN, RE-XLN MTRX TO TR SUB-SUCRO, LAM BLK SH, LG FOSS FRAGS IP, NO FLO, NO VIS POR

SH- GRN, FRM, SLTY

LS- WHT CRM TN, BRITT, VF-XLN, SUB-SUCRO MTRX THRU, MOD TO WELL CMNT OOL SCAT THRU, DLL YEL FLO SCAT THRU, V/FAINT SLO YEL STRM CUT, PR

8 U BG

12:00 A.M. 02/20/11

5 U BG

16 U INCREASE

MUD CHECK @ 4414'

TG, C1- WT 9.2  
 VIS 48  
 LCM 5#  
 PV 15  
 YP 17  
 PH 10.0  
 FIL 7.2  
 CALC 40  
 CHL 1,400

CN

CN

CN

CN

CN

CN

CN

200



INTER-OOL POR SCAT THRU, TR STAIN, V/FAINT ODOR

LS- LT GRY CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, TR GY SH STRINGERS, NO FLO, NO VIS POR

**PAWNEE 4452' (-1543')**

LS- CRM V/LT TN, HRD DNS TO BRITT, VF-XLN, SUB-SUCRO MTRX THRU, ABDT MOD TO WELL CMNT OOL THRU, V/DLL YEL FLO THRU, NO VIS CUT, PR OOMOLD POR IP TO TR INTER-OOL POR, TR V/LT STAIN, NO ODOR

**FT. SCOTT 4482' (-1573')**

LS- LT CRM LT TN, HRD DNS TO BRITT, F/VF-XLN, SUB-SUCRO MTRX IP TO TR SUB-CHLKY, TR SFT WHT CHLK, TR OOL, SCAT DLL YEL FLO, NO VIS CUT, PR INTER-XLN POR IP, NO STAIN, NO ODOR, NS

**CHEROKEE 4496' (-1587')**

LS- LT GY LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR TR SS- WHT CRM, TT TO FRI IP, MD/F-GRNS, PR SRT, ANG TO SUB-ANG GRNS, CALC CMNT, NO FLO, NO VIS CUT, PR/FR INTER-GRN POR, NS

LS- GY, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO VIS POR

LS- LT GY, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUB-CHLKY, IMBED GY SH IP, NO FLO, NO VIS POR

LS- LT GY BFF, HRD DNS, VF-XLN, RE-XLN MTRX THRU TO TR SUB-CHLKY, NO FLO, NO VIS POR

LS- V/LT GY, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR LOOSE CALC XLS, NO FLO, NO VIS POR

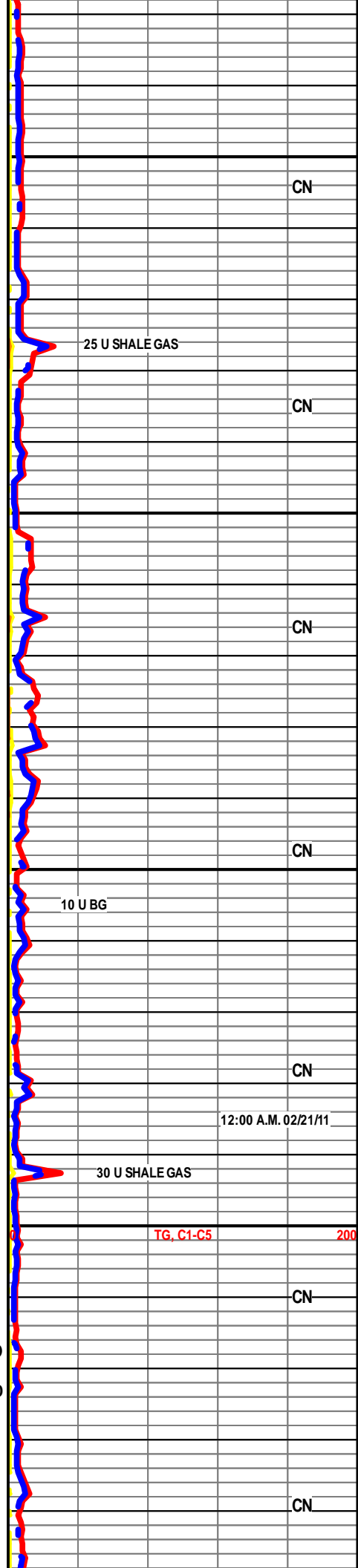
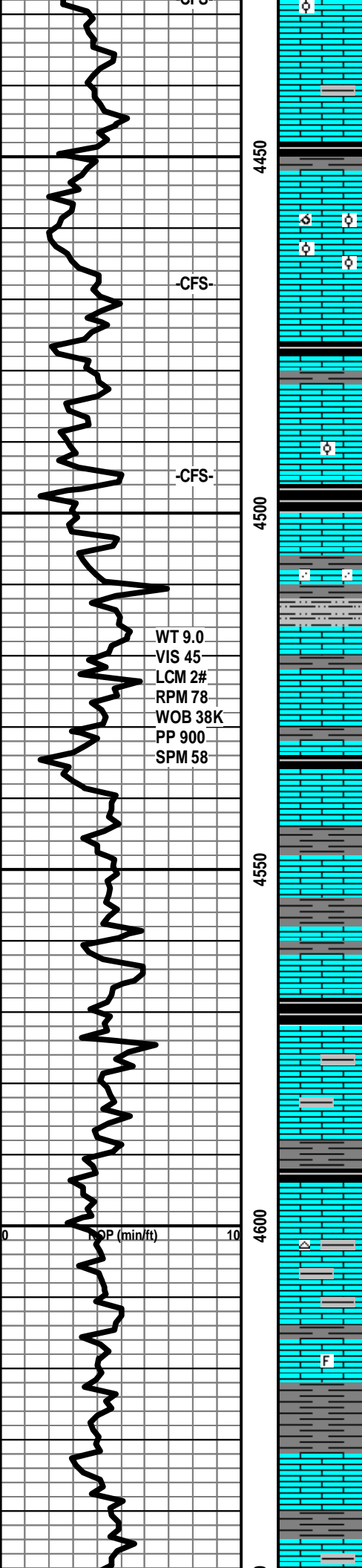
LS- TN, BRITT TO HRD DNS, VF-XLN, RE-XLN MTRX IP, IMBED DK GY SH IP, NO FLO, NO VIS POR

**ATOKA 4595' (-1686')**

LS- CRM LT TN, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUB-SUCRO, IMBED SH IP, TR LT TN VIT CHRT, NO FLO, NO VIS POR

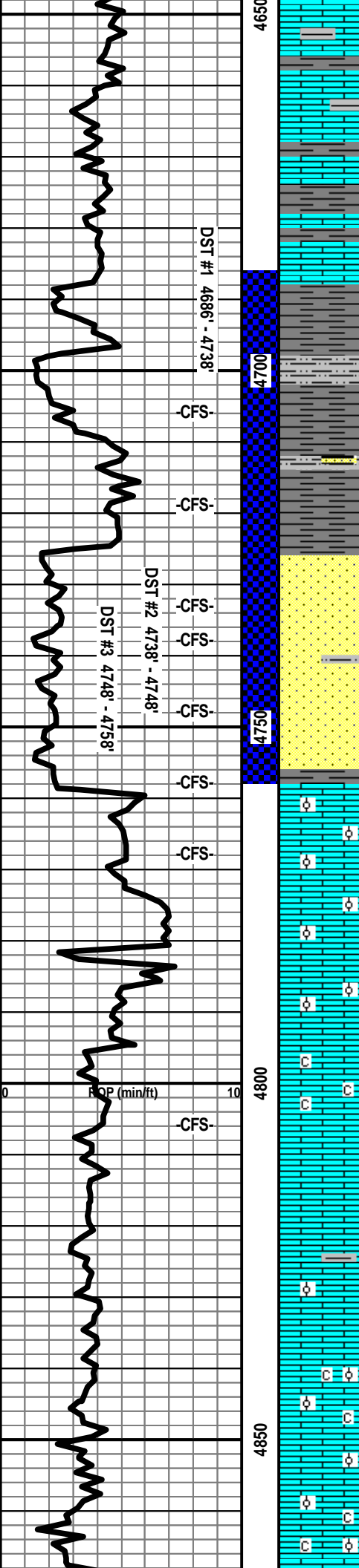
LS- OFF WHT, BRITT TO HRD DNS, VF-XLN, SUB-SUCRO MTRX IP TO TR SUB-CHLKY, TR FOSS FRAGS, V/DLL YEL FLO IP, NO VIS CUT, TR INTER-XLN POR, SPOTTED V/LT TN STAIN, NS

LS- DK TN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR



12:00 A.M. 02/21/11

TG, C1-C5 200



LS- TN BRN, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, GRN SH STRINGERS, NO FLO, NO VIS POR

SH- GRY BLK, HRD DNS, VF-XLN, RE-XLN MTRX IP, IMBED BLK SH IP, NO FLO, NO VIS POR

LS- DK GY, HRD DNS, VF/CRYPTO-XLN, TR RE-XLN MTRX, NO FLO, NO VIS POR

**MORROW 4688' (-1779')**

SH- BLK, SFT TO FRM, CARB IP, FISS

SLTST- GRN, FRI, VF-GRNS, NO FLO, NO VIS POR

SS- WHT LT GY, FRI TO TT, F-GRNS, GD SRT, SUB-RND GRNS, CALC CMNT, TR V/DLL YEL FLO, V/FAINT YEL STRM CUT, PR/FR INTER-GRN POR THRU, TR LT STAIN, NO ODOR

SH- BLK, FRM, BLKY IP TO FISS IP, TR CARB

4728' SS- TN LT GY, FRI, F-GRNS, GD SRT, SUB-ANG TO SUB-RND GRNS, SLI CALC CMNT, DISS BLK SH SCAT THRU, TR PYR, TR YEL FLO TO BRIT YEL FLO THRU WHEN CUT, GD BLU STRM CUT, PR/FR INTER-GRN POR THRU, SCAT STAIN THRU, V/FAINT ODOR

4736' SS- TN, TT TO FRI IP, MD/F-GRNS, PR/FR SRT, SUB-RND GRNS, SILI CMNT, YEL FLO THRU, GD FLUSH CUT TO FAST BLU STRM CUT, FR INTER-GRN POR THRU, DK TN STAIN THRU, STRNG ODOR, TR FREE OIL

4744' SS- TN CLR, FRI, MD/F-GRNS, PR/FR SRT, SUB-RND TO RND GRNS, SILI CMNT, DLL YEL FLO THRU TO BRIT YEL WHEN CUT, PR FLUSH TO FR/GD SLO BLU STRM CUT, FR/GD INTER-GRN POR, DK TN STAIN THRU, STRNG ODOR, FREE OIL

4754' SS- CLR TN WHT, FRI TO TT, MD-GRNS TO TR CORSE-GRNS, FR SRT, SUB-RND TO RND GRNS, SILI CMNT, YEL FLO THRU, FR FLUSH TO FR SLO BLU STRM CUT, FR/GD INTER-GRN POR THRU, TN STAIN SCAT THRU, SLI STRNG ODOR, NO FREE OIL

**MISSISSIPPIAN 4759' (-1850')**

4760' LS- GY CRM, HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU, PRLY CMNT OOL IP, V/DLL YEL FLO IP, PR FLUSH CUT TO PR SLO BLU STRM CUT, FR INTER-OOL POR IP, TR STAIN, V/FAINT ODOR

4782' LS- CRM TN, BRITT TO HRD DNS IP, VF-XLN, SUB-SUCRO MTRX IP TO RE-XLN MTRX IP, PRLY CMNT OOL IP, SCAT YEL FLO, FR FLUSH CUT TO PR/FR SLO BLU STRM CUT, FR/GD INTER-OOL POR IP, SCAT TN STAIN, FAINT/MILD ODOR

LS- WHT BLK CRM, BRITT, VF-XLN, CHLKY MTRX, ABTD SFT WHT CHLK THRU, DLL YEL FLO THRU, GD FLUSH CUT TO FAST BLU STRM CUT, NO VIS POR, MILD ODOR, BLK OIL STAIN THRU, FREE OIL

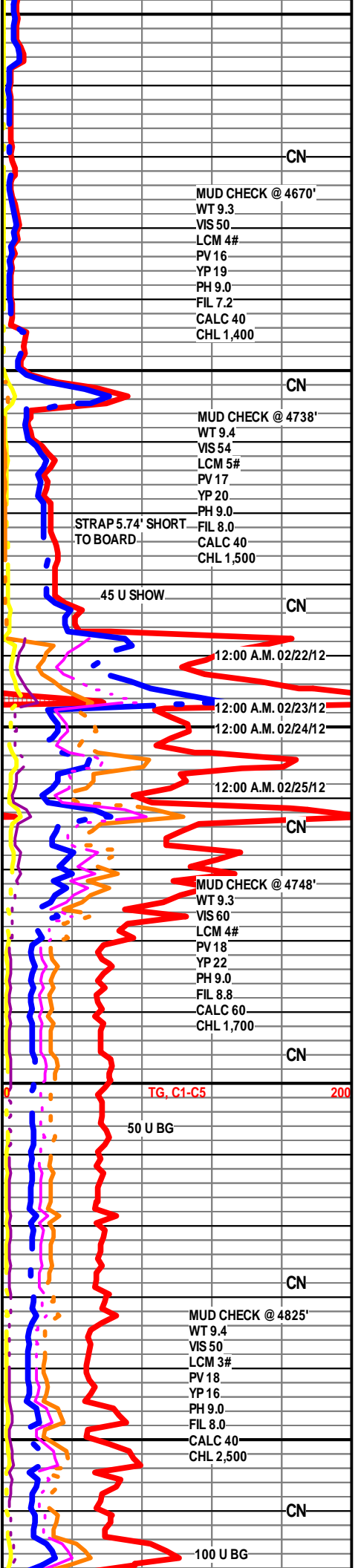
LS- LT TN CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, TR PYR, NO FLO, NO VIS POR

LS- CRM, BRITT, VF-XLN, SUB-CHLKY MTRX IP TO TR SUB-SUCRO, TR OOL, SFT WHT CHLK IP, NO FLO, NO VIS POR

LS- CRM, BRITT TO HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, TR SFT WHT CHLK, OOL IP, NO FLO, NO VIS POR

LS- CRM BFF LT GY, BRITT, VF-XLN, SUB-SUCRO MTRX IP, SFT WHT CHLK IP, OOL IP, NO FLO, NO VIS POR

LS- OFF WHT CRM, BRITT, F/VF-XLN, SUB-SUCRO MTRX



CN

MUD CHECK @ 4670'  
WT 9.3  
VIS 50  
LCM 4#  
PV 16  
YP 19  
PH 9.0  
FIL 7.2  
CALC 40  
CHL 1,400

CN

MUD CHECK @ 4738'  
WT 9.4  
VIS 54  
LCM 5#  
PV 17  
YP 20  
PH 9.0  
FIL 8.0  
CALC 40  
CHL 1,500

STRAP 5.74' SHORT TO BOARD

45 U SHOW

CN

12:00 A.M. 02/22/12

12:00 A.M. 02/23/12

12:00 A.M. 02/24/12

12:00 A.M. 02/25/12

CN

MUD CHECK @ 4748'  
WT 9.3  
VIS 60  
LCM 4#  
PV 18  
YP 22  
PH 9.0  
FIL 8.8  
CALC 60  
CHL 1,700

CN

TG, C1-C5

200

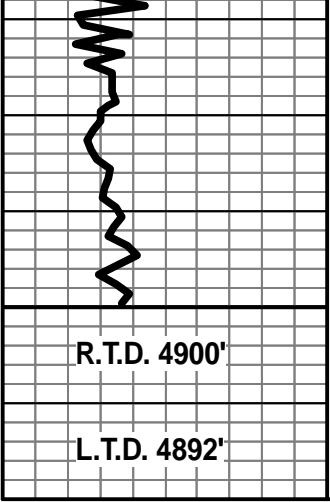
50 U BG

CN

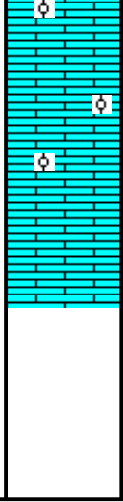
MUD CHECK @ 4825'  
WT 9.4  
VIS 50  
LCM 3#  
PV 18  
YP 16  
PH 9.0  
FIL 8.0  
CALC 40  
CHL 2,500

CN

100 U BG



4900



IP TO SUB-CHLKY IP, SFT WHT CHLK IP, OOL IP, NO FLO, TR INTER-OOL POR TO NO VIS POR, NS

LS- DK CRM, HRD DNS TO BRITT IP, VF-XLN, SUB-SUCRO MTRX IP TO TR RE-XLN, OOL IP, TR GRANULAR, NO FLO, NO VIS POR

LS- OFF WHT CRM, BRITT TO HRD DNS, VF-XLN, SUB-SUCRO MTRX IP TO RE-XLN IP, TR OOL, NO FLO, NO VIS POR

TD @ 4:00 P.M. 02/25/11

CTCH 1 1/2 HR.

T.O.H. FOR LOGS

