

ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 30535
 Name: Hartman Oil Co., Inc.
 Address: 12950 E 13th St. N.
 City/State/Zip: Wichita, Ks. 67230-1457
 Purchaser: NCRA
 Operator Contact Person: Stan Mitchell
 Phone: (620) 277-2511
 Contractor: Name: Abercombie RTD, Inc.
 License: 30684
 Wellsite Geologist: Wes Hansen
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
 8-12-04 8-22-4 plugged - 8-25-04
 Spud Date or Date Reached TD Completion Date or
 Recompletion Date Recompletion Date

API No. 15 - 055-21833-0000
 County: Finney
SE SW sw se Sec. 16 Twp. 22 S. R. 33 East West
330 feet from N (circle one) Line of Section
1400 feet from W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: Ward Well #: # 4
 Field Name: Damme
 Producing Formation: Not Reached
 Elevation: Ground: 2889.2' Kelly Bushing: 2894'
 Total Depth: 4731' Plug Back Total Depth: surface
 Amount of Surface Pipe Set and Cemented at 335' - w/ 275 sxs 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.

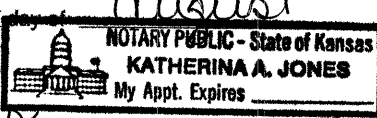
Drilling Fluid Management Plan P&H KJR 6/14/07
 (Data must be collected from the Reserve Pit)
 Chloride content 1700 ppm Fluid volume 8000 bbls
 Dewatering method used Evaporation
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Docket No.: _____

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 SEP - 1 2004
 KCC WICHITA

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: S. I. Mitchell
 Title: Production supervisor Date: 8-27-04
 Subscribed and sworn to before me this 31st day of August
04
 Notary Public: Katherine A. Jones
 Date Commission Expires: May 20, 2007



KCC Office Use ONLY
 Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: Hartman Oil Co., Inc. Lease Name: Ward Well #: # 4
 Sec. 16 Twp. 22 S. R. 33 East West County: Finney

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run:

Temperature Survey

<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
	Name	Top Datum
	Heebner	3772' -878'
	Lansing	3820' -926'
	Pawnee	4399' -1505'
	Fort Scott	4423' -1529'
	Cherokee	4434' -1540'
	Morrow Shale	4612' 1718'
	Morrow Sand	absent
	St. Louis	4688' -1774'

CASING RECORD <input checked="" 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
Surface	12-3/4"	8-5/8"	23#	335'	common	275	3 % CC - 2 % gel
N/A							

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				

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

TUBING RECORD	Size	Set At	Packer At	Liner Run
N/A				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumerd Production, SWD or Enhr.	Producing Method			
	<input type="checkbox"/> Flowing	<input type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) Plugged - AS PER KCC

Production Interval _____

Notice: Fill out COMPLETELY and return to Conservation Division at the address below within 60 days from plugging date.

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION WELL PLUGGING RECORD K.A.R. 82-3-117

Form CP-4 December 2003 Type or Print on this Form Form must be Signed All blanks must be Filled

Lease Operator: Hartman Oil Co., Inc.

Address: 12950 E. 13th St. - Wichita, Ks. 67230-1457

Phone: (316) 636-2090 Operator License #: 30535

Type of Well: Oil Docket #: (Oil, Gas D&A, SWD, ENHR, Water Supply Well, Cathodic, Other) (If SWD or ENHR)

The plugging proposal was approved on: 8-25-04 (Date)

by: Richard Lacey - w/ KCC (KCC District Agent's Name)

Is ACO-1 filed? Yes No If not, is well log attached? Yes No

Producing Formation(s): List All (If needed attach another sheet)

Depth to Top: Bottom: T.D. (repeated for multiple formations)

API Number: 15 - 055-21833-0000

Lease Name: Ward

Well Number: #4

Spot Location (QQQQ): - SW - SW - SE

330 Feet from North / South Section Line

1400 Feet from East / West Section Line

Sec. 16 Twp. 22S S. R. 33W East West

County: FINNEY

Date Well Completed: N/A

Plugging Commenced: 8-25-04

Plugging Completed: 8-25-04

Show depth and thickness of all water, oil and gas formations.

Table with 7 columns: Oil, Gas or Water Records (Formation, Content) and Casing Record (Surface Conductor & Production) (From, To, Size, Put In, Pulled Out)

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole.

Drill Pipe - stuck in hole - Lost circulation @ 4731' - unable to regain circulation - spot 40 bbl oil - Weatherford Serv - ran free point - shot (5) holes @ 4086' - unable to move Drill pipe or pump into - ran free point - shot (5) 1/4" holes @ 1954' - unable move or pump into Drill pipe - backed Drill pipe off @ 1686' - moved pipe 2' - drill pipe stuck in hole - broke circulation - unable to move drill pipe - As Per KCC - pump 400 szs 60-40 W/ 6 % Gel @ 1686' - ran temp survey - TOC @ 135' - top off 100' w/ 40 sx 60-40 6 % w/ 1" tbg

Name of Plugging Contractor: Abercombie RTD, Inc. & Allied Cementing Co. License #: 30684

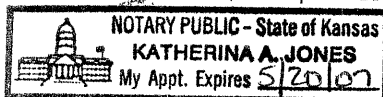
Address: 12950 E 13th St. N - Wichita, Ks. 67230-1457

Name of Party Responsible for Plugging Fees: Hartman Oil Co.

State of Ks. County, Finney, ss.

S. T. Mitchell (Employee of Operator) or (Operator) on above described well, being first duly

sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.



(Signature) S.T. Mitchell

(Address) 4550 W 9 Mi Rd - Finney Co., Ks. 67530

SUBSCRIBED and SWORN TO before me this 31st day of August, 20 04

Katherina A. Jones My Commission Expires: May 20, 2007

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

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WELL HISTORY - DESCRIPTION OF WELL & LEASE

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Purchaser: NCRA
Operator Contact Person: Stan Mitchell
Phone: (620) 277-2511
Contractor: Name: Abercombie RTD, Inc.
License: 30684
Wellsite Geologist: Wes Hansen

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

8-12-04	8-22-4	plugged - 8-25-04
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 055-21833-0000
County: Finney
SW - sw - se Sec. 16 Twp. 22 S. R. 33 East West
330 feet from N (circle one) Line of Section
1400 feet from W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Ward Well #: # 4

Field Name: Damme
Producing Formation: Not Reached

Elevation: Ground: 2889.2' Kelly Bushing: 2894'
Total Depth: 4731' Plug Back Total Depth: surface

Amount of Surface Pipe Set and Cemented at 335' - w/ 275 sxs 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 1700 ppm Fluid volume 8000 bbls
Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License No.: _____

Quarter Sec. 16 East West

County: SEP - 1 2004 Docket No.: _____

KCC WICHITA

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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.

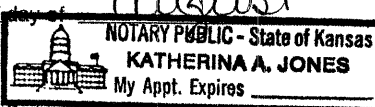
Signature: S.T. Mitchell

Title: Production supervisor Date: 8-27-04

Subscribed and sworn to before me this 31st day of August

20 04
Notary Public: Katherine A. Jones

Date Commission Expires: May 20, 2007



KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

Operator Name: Hartman Oil Co., Inc. Lease Name: Ward Well #: # 4
 Sec. 16 Twp. 22 S. R. 33 East West County: Finney

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run:

Temperature Survey

Name	Top	Datum
Heebner	3772'	-878'
Lansing	3820'	-926'
Pawnee	4399'	-1505'
Fort Scott	4423'	-1529'
Cherokee	4434'	-1540'
Morrow Shale	4612'	1718'
Morrow Sand	absent	
St. Louis	4688'	-1774'

CASING RECORD New 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
Surface	12-3/4"	8-5/8"	23#	335'	common	275	3 % CC - 2 % gel
N/A							

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				

PERFORATION RECORD - Bridge Plugs Set/Type
Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record
(Amount and Kind of Material Used)

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

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TUBING RECORD	Size	Set At	Packer At	Liner Run
N/A				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumerd Production, SWD or Enhr.	Producing Method
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

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

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) Plugged - AS PER KCC

Production Interval

ALLIED CEMENTING CO., INC. 13904

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

SERVICE POINT
Wesley

DATE: <i>1/29/04</i>	SEC: <i>16</i>	TWP: <i>22</i>	RANGE: <i>37</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Walt</i>	WELL: <i>41</i>	LOCATION: <i>Franklin 334 N15</i>		COUNTY: <i>Finney</i>	STATE: <i>KS</i>		

OLD OR NEW (Circle one)

CONTRACTOR: <i>H. [unclear]</i>	OWNER: <i>Samp</i>
TYPE OF JOB: <i>Water Well</i>	
HOLE SIZE: <i>7 1/2</i>	I.D. <i>4.751</i>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE: <i>7 1/2</i>	DEPTH: <i>1689</i>
TOOL	DEPTH
PRES. MAX: <i>400</i>	MINIMUM: <i>50</i>
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG	
PERFS	
DISPLACEMENT	

EQUIPMENT	
PUMP TRUCK CEMENTER: <i>Mar</i>	
# <i>224</i> HELPER: <i>Jill</i>	
BULK TRUCK	
# <i>207</i> DRIVER: <i>Looney</i>	
BULK TRUCK	
#	DRIVER

COMMON: <i>240</i>	@ <i>7.10</i>	<i>2154.00</i>
POZ MIX: <i>160</i>	@ <i>4.10</i>	<i>656.00</i>
GEL: <i>29</i>	@ <i>11.00</i>	<i>319.00</i>
CHLORIDE	@	
<i>1.40</i>	@ <i>14.00</i>	<i>19.60</i>
HANDLING: <i>476</i>	@ <i>1.39</i>	<i>659.64</i>
MILEAGE: <i>584</i>		<i>1015.00</i>
TOTAL		<i>4851.10</i>

REMARKS:	SERVICE
<i>Phillips @ 1689 Mix 400 etc cement</i>	DEPTH OF JOB
<i>Return the out job cut down</i>	PUMP TRUCK CHARGE: <i>579.00</i>
<i>Circulate & replace 15% ABK 3 hours</i>	EXTRA FOOTAGE
<i>as per R.C.C.</i>	MILEAGE: <i>500</i>
	PLUG

CHARGE TO: *Hermon Oil Co Inc*

STREET _____

CITY _____ STATE _____ ZIP _____

RECEIVED

SEP - 1 2004

KCCO MINERAL

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

5059.99

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE *S.T. Mitchell*

S.T. Mitchell

PRINTED NAME

ALLIED CEMENTING CO., INC. 13905

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

SERVICE POINT

DATE <u>9/5/04</u>	SEC <u>16</u>	TWP <u>22</u>	RANGE <u>37W</u>	CALLED OUT	ON LOCATION <u>12:00 PM</u>	JOB START <u>5:00 PM</u>	JOB FINISH <u>6:50 PM</u>
LEASE <u>11/1</u>	WELL # <u>4</u>	LOCATION <u>93rd Street Rd</u>	<u>37W 21S</u>	COUNTY <u>Franklin</u>	STATE <u>Ks</u>		

CONTRACTOR <u>Hartman Drilling</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Drilling</u>	
HOLE SIZE <u>TD</u>	CEMENT
CASING SIZE <u>DE 4</u>	AMOUNT ORDERED
TUBING SIZE <u>DE 4</u>	<u>2000 lbs. 1 1/2" 19.5 lb/ft</u>
DRILL PIPE <u>DE 4</u>	<u>Used 7500 lbs. 1 1/2" 19.5 lb/ft</u>
TOOL <u>DE 4</u>	
PRES. MAX <u>150</u>	COMMON <u>4500</u> @ <u>7.10</u> = <u>40950</u>
MEAS. LINE <u>SH 0</u>	POZMIX <u>3000</u> @ <u>4.10</u> = <u>12300</u>
CEMENT LEFT IN CSG	GEL <u>3000</u> @ <u>11.00</u> = <u>33000</u>
PERFS	CHLORIDE @
DISPLACEMENT	<u>Fluorocel 195</u> @ <u>1.40</u> = <u>27300</u>
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Mac</u>	
# <u>24</u> HELPER <u>Jim</u>	
BULK TRUCK	HANDLING <u>217.50</u> @ <u>1.35</u> = <u>293.62</u>
# <u>347</u> DRIVER <u>Looney</u>	MILEAGE <u>38.5/100</u> = <u>530.00</u>
BULK TRUCK	
# DRIVER	TOTAL 1409.82

REMARKS:
1. Water pump, locate
2. Mix 4000
3. To surface Run 1" pipe
4. Mix 1000 cement
5. Plug Mease Hole with
6. Plug 1st Hole with 1

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>570.00</u>
EXTRA FOOTAGE	0
MILEAGE	0
PLUG	0

CHARGE TO: Hartman Drilling Inc

STREET _____

CITY _____ STATE _____ ZIP _____

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 SEP - 1 2004

TOTAL 570.00

KOOLWA EQUIPMENT

	0
	0
	0
	0
	0

1780.47

TOTAL _____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to contractor to do work as is listed. This work was done to satisfaction and supervision of contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE _____

PRINTED NAME _____

ALLIED CEMENTING CO., INC.

13904

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

RECEIVED

SERVICE POINT: Ness City

SEP - 1 2004

DATE <u>9/1/04</u>	SEC. <u>16</u>	TWP. <u>22</u>	RANGE <u>37</u>	CALLED OUT <u>KCC WICHITA</u>	ON LOCATION <u>3:00 PM</u>	JOB START <u>3:30 PM</u>	JOB FINISH <u>4:20 PM</u>
LEASE <u>Wichita</u>	WELL # <u>41</u>	LOCATION <u>St Barlow Rd Box 417</u>			COUNTY <u>Finney</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Wichita OWNER Same

TYPE OF JOB Water Well

HOLE SIZE _____ T.D. 475'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 16.6 DEPTH 1684

TOOL _____ DEPTH _____

PRES. MAX 400 MINIMUM 50

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT AMOUNT ORDERED 4000 lbs 60 Mesh 4" F 16-5001

COMMON	<u>240</u>	@	<u>9.10</u>	<u>2184.00</u>
POZMIX	<u>160</u>	@	<u>4.10</u>	<u>656.00</u>
GEL	<u>31</u>	@	<u>11.00</u>	<u>341.00</u>
CHLORIDE		@		
<u>FR-2001 100</u>		@	<u>1.40</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>426</u>	@	<u>1.35</u>	<u>575.10</u>
MILEAGE	<u>50</u>	@		<u>100.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Max

22 HELPER Jill

BULK TRUCK

247 DRIVER Looney

BULK TRUCK

_____ DRIVER _____

TOTAL 4551.10

REMARKS:

Drill pipe @ 1684 Mix 400 sfg cm 9
Returns thru out job Cmt did not
Circulate Displace 15% BAL shut pump
as per R.C.C.

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 570.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 50 mi @ 4.00 200.00

PLUG _____ @ _____

_____ @ _____

_____ @ _____

TOTAL 770.00

CHARGE TO: Allied Cementing Co., Inc

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

5058.99

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

[Signature]
PRINTED NAME

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

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—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

ALLIED CEMENTING CO., INC.

14980

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

SERVICE POINT: OAKLEY

DATE <u>8-13-04</u>	SEC <u>16</u>	TWP. <u>22S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>8:00 AM</u>	JOB START <u>1:00 PM</u>	JOB FINISH <u>1:30 AM</u>
LEASE <u>WARD</u>	WELL # <u>4</u>	LOCATION <u>Hwy 93 + TENNES RD 25-34W-N2W</u>		COUNTY <u>FENNEY</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)							

CONTRACTOR Abrahamson RIG # 9

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 335'

CASING SIZE 8 7/8" DEPTH 331'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 38.21

CEMENT LEFT IN CSG. 38.21'

PERFS.

DISPLACEMENT 19 BBL.

OWNER SAME.

CEMENT AMOUNT ORDERED 275 SKS COM + 3% CC 28.664

COMMON	<u>275 SKS</u>	@	<u>8.95</u>	<u>2433.75</u>
POZMIX		@		
GEL	<u>5 SKS</u>	@	<u>10.00</u>	<u>50.00</u>
CHLORIDE	<u>9 SKS</u>	@	<u>31.00</u>	<u>279.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>289 SKS</u>	@	<u>1.25</u>	<u>361.25</u>
MILEAGE	<u>054 PER SK / MILE</u>			<u>7.22</u>
TOTAL				<u>3897.20</u>

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

191 HELPER WAYNE

BULK TRUCK

218 DRIVER MEKE

BULK TRUCK

DRIVER

REMARKS:

CEMENT AND CIRC.

PLUG ~~WAS~~ DID NOT LAND

SERVICE

DEPTH OF JOB 331'

PUMP TRUCK CHARGE 570.00

EXTRA FOOTAGE @

MILEAGE 50 mi @ 4.00 200.00

PLUG @

TOTAL 770.00

THANK YOU

CHARGE TO: HARTMAN OIL, CO.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

8.75

1- TEX INT GUARD SH @ 265.00

1- GAFFLE PLATE @ 45.00

1- SURFACE PLUG @ 45.00

TOTAL 355.00

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

STEVEN [Signature]

PRINTED NAME _____

GENERAL TERMS AND CONDITIONS

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(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

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ALLIED CEMENTING CO., INC.

13805

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

SERVICE POINT: _____

DATE <u>12/14/11</u>	SEC. <u>16</u>	TWP. <u>7N</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>12:00 PM</u>	JOB START <u>9:00 AM</u>	JOB FINISH <u>6:15 PM</u>
LEASE	WELL # <u>4</u>	LOCATION <u>977 Center Rd Russell, KS</u>			COUNTY <u>Finney</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR _____ OWNER _____

TYPE OF JOB _____

HOLE SIZE _____ T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT

AMOUNT ORDERED _____

2000 lbs 14" 15' 50' 50'

1500 lbs 14" 15' 50' 50'

COMMON	<u>45.00</u>	@	<u>9.10</u>	<u>419.50</u>
POZMIX	<u>30.00</u>	@	<u>4.10</u>	<u>123.00</u>
GEL	<u>3.00</u>	@	<u>11.00</u>	<u>33.00</u>
CHLORIDE		@		
<u>Plummet</u>	<u>19"</u>	@	<u>1.40</u>	<u>26.60</u>
		@		
		@		
		@		
		@		
HANDLING	<u>2.12</u>	@	<u>1.35</u>	<u>286.20</u>
MILEAGE	<u>57/51/MI</u>			<u>530.00</u>
TOTAL				<u>1408.30</u>

EQUIPMENT

PUMP TRUCK CEMENTER Max

120 HELPER Jim

BULK TRUCK

347 DRIVER Loonie

BULK TRUCK

_____ DRIVER _____

REMARKS:

40SKs

To surface Run 14" Inside Drill Pipe

14" 15' 50' 50'

plus Messer Hole with lock

plus Cat Hole with 15 SKs

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 570.00

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG _____ @ _____

_____ @ _____

_____ @ _____

TOTAL 570.00

CHARGE TO: Allied Cementing Co. Inc

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

1780.47

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DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE _____

PRINTED NAME _____

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LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Ward #4
Location: Sec. 16-22S-33W Finney County, Kansas
Licence Number: API: 15-055-21833
Spud Date: 8-12-2004
Surface Coordinates: 330' FSL, 1400' FEL
Region: Damme
Drilling Completed: 8-22-2004

Bottom Hole Coordinates:

Ground Elevation (ft): 2889' K.B. Elevation (ft): 2894'
Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4731'
Formation: Mississippian St. Louis at TD
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: Hartman Oil Company, Inc.
Address: 12950 E. 13th Street
Wichita, KS 67230

GEOLOGIST

Name: Wesley D. Hansen
Company: Wesley D. Hansen - Consulting Petroleum Geologist
Address: 212 N. Market, Suite 257
Wichita, KS 67202
Office: 316-263-7313 Cellular: 316-772-6188

DSTs

DST No. 1 Marmaton/Pawnee
Interval: 4330'-4416'
Times: 30"-30"-30"-30"
IFP: wk blow, died in 25 minutes
FFP: no blow
Recovery: 20' drilling mud
FP: 28-34/39-44 SIP: 573-504
HP: 2204-2101 BHT: 111 deg. F

DST No. 2 St. Louis
Interval: 4666'-4681'
Times: 30"-60"-45"-90"
IFP: wk blow, bldg. to 10 inches
in bucket
FFP: wk bldg. to 7 inches
ISIP/FSIP: wk surface blowback
Recovery: 110' GIP; 30' clean oil;
60' SLO&WCM (10o, 30w, 60m);
240' Mdy Wtr (90w, 10m)
Chl.: 23,000 System Chl.: 1700
FP: 38-96/112-161 SIP: 807-871
HP: 2295-2258 BHT: 121 deg. F

RECEIVED
SEP - 1 2004
KCC WICHITA

COMMENTS

Contractor: Abercrombie RTD, Inc. Rig #8
Pusher: Steve Craig

Mud by Mudco/Service Mud
Engineers: Tony Moore and Brad B...

Mud by Mudco/Service Mud
 Engineers: Tony Maestas and Brad Bortz

Drill Stem Testing by Trilobite Testing
 Testers: Rod Steinbrink, Paul Simpson

Bit Record:

No.	Size	Mfg.	Type	Depth out	Footage	Hours
1	12 1/4	Varel	TGR	335'	335'	4
2	7 7/8	Security	SEB759	4681'	4346'	175
3	7 7/8	HTC	HA7728C	4731'	50'	7 1/4

Deviation Surveys: 335' was 1/2 deg.; 4416' was 1 deg.

8 5/8" casing set at 335' with 275 sacks (Allied)

The drill pipe was stuck in the hole. After repeated attempts to free the pipe, the operator elected to back off the drill pipe at 1686'. The well was then plugged at 1686' with 400 sacks, and filled to surface with cement via 1 inch line. The remaining drill pipe and collars were left in the hole.

ROCK TYPES

	Anhy		Congl		Mrist		Ss		Sandylms
	Bent		Dol		Salt		Till		Shale
	Brec		Gyp		Shale		Carb sh		Sltstn
	Cht		Igne		Shcol		Dol		Shlyslts
	Clyst		Lmst		Shgy		Dtd		Sltyslts
	Coal		Meta		Sltst		Gry sh		Lms

ACCESSORIES

	MINERAL		Marl		Belm		Fuss		Lms
	Anhy		Minxl		Bioclst		Oomold		Sandylms
	Arggrn		Nodule		Brach		STRINGER		Sh
	Arg		Phos		Bryozoa		Anhy		Sltstn
	Bent		Pyr		Cephal				

RECEIVED

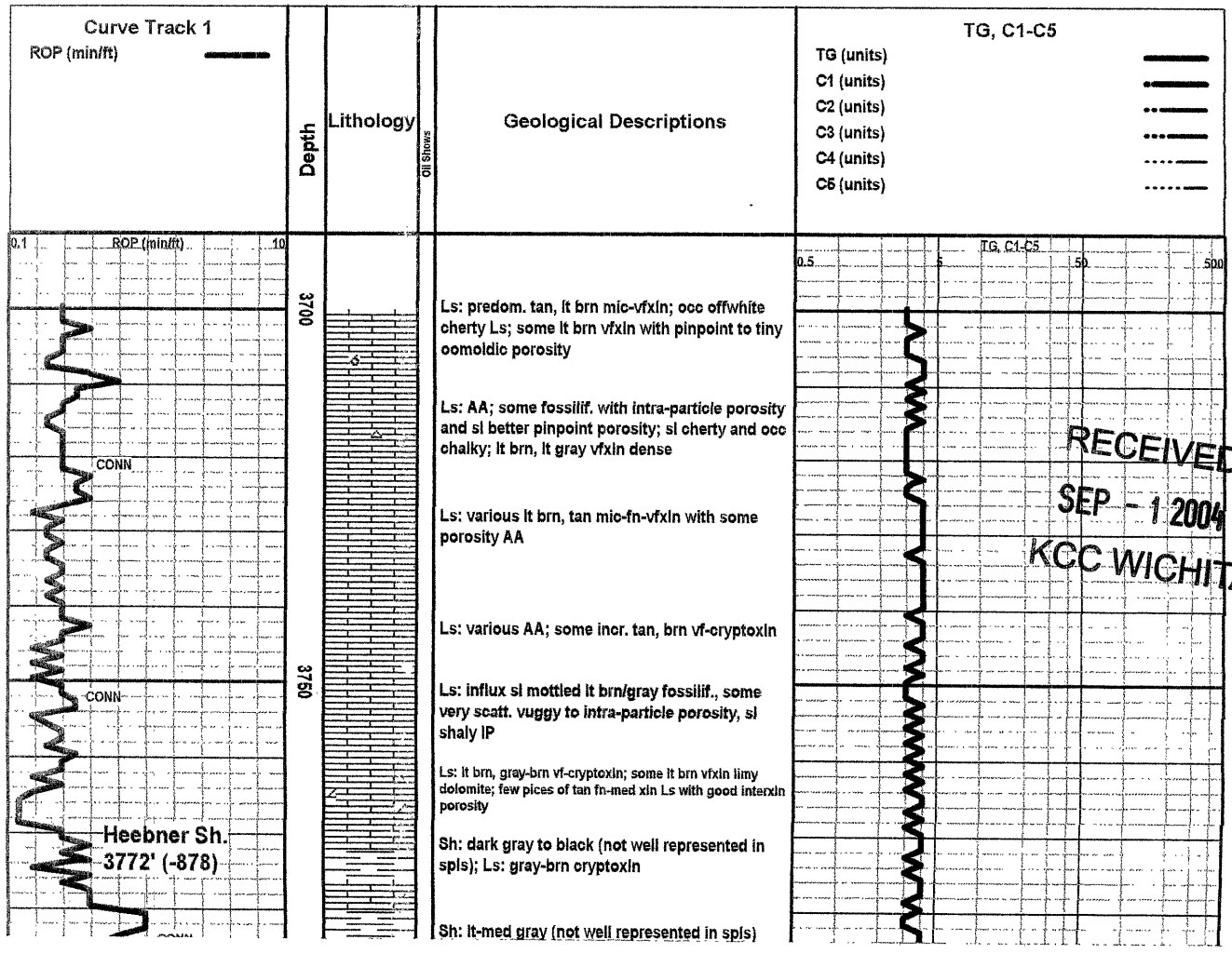
SEP - 1 2004

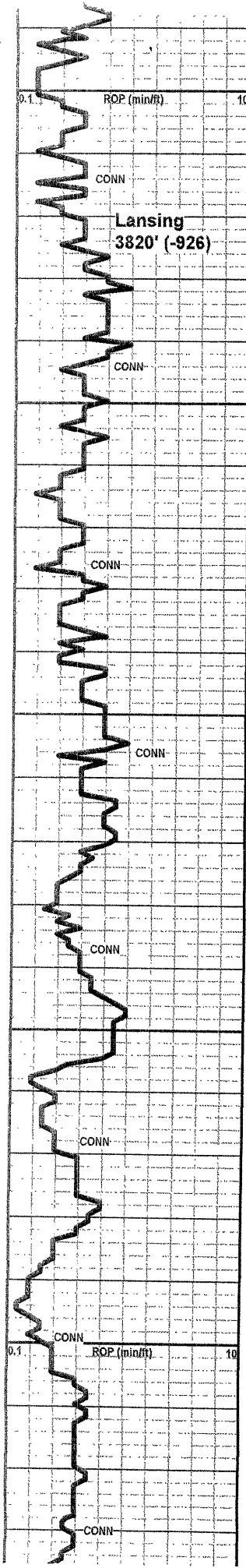
KCC WICHITA

	Brecfrag		Sandy		Crin		Bent		Boundst
	Calc		Silt		Echin		Coal		Chalky
	Carb		Sil		Fish		Dol		Cryxln
	Chtdk		Sulphur		Foram		Gyp		Earthy
	Chtit		Tuff		Fossil		Ls		Finexln
	Dol		Chlorite		Gastro		Mrst		Grainst
	Feldspar		Dol		Oolite		Sltstrg		Lithogr
	Ferrpel		Sand		Ostra		Ssstrg		Microxln
	Ferr		Sity		Pelec		Carbsh		Mudst
	Giau	FOSSIL			Pellet		Clystn		Packst
	Gyp		Algae		Pisolite		Dol		Wackst
	Hvymin		Amph		Plant		Grysh		
	Kaol				Strom		Gryslt		

OTHER SYMBOLS

POROSITY TYPE		Vuggy	ROUNDING		Spotted		Dst	
	Earthy	SORTING		Rounded		Ques	EVENTS	
	Fenest			Subrnd		Dead		Rft
	Fracture			Subang		Gas show		Sidewall
	Inter			Angular	INTERVALS			
	Moidic		OIL SHOWS		Core			
	Organic			Even		Dst		
	Pinpoint							





Ls: tan, offwhite mic-vfxln subchalky to chalky IP; tan vf-cryptoxln, some with fair-good interxln and vuggy porosity; good influx of offwhite chert

Ls: various lt brn, tan vf-cryptoxln

Sh: vc gray, some red-brn

Ls: tan oolitic with fair to good inter-oolitic porosity, N.S.

Ls: tan, lt gray, lt brn vf-cryptoxln; occ tan opq chert

Ls: various tan, lt brn vf-cryptoxln

Ls: flood gray dense sl shaly; dark brn, gray-brn cryptoxln; some gray-brn chert

Sh: dark gray to black

Ls: flood tan, lt-med brn vf-cryptoxln; occ offwhite chert

Ls: various dense, sl cherty AA; some tan subchalky to chalky; some tan with small pinpoint vugular and seatt. interxln porosity

Ls: tan, lt brn vf-cryptoxln

Ls: various dense AA; med brn and gray-brn cryptoxln;

Ls: predom. various cryptoxln AA; influx med-dark gray shale

Ls: tan fnxln with interxln and pinpoint porosity, N.S.; some fossilif. to oolitic with fair moldic and inter-particle porosity, N.S.

Ls: tan, lt brn, lt gray vf-cryptoxln; common med to dark gray shale

Ls: tan, offwhite mic-vfxln, subchalky IP

Ls: AA, lt brn, lt gray vf-cryptoxln; sl incr. in dark gray shale

Ls: flood tan cryptoxln

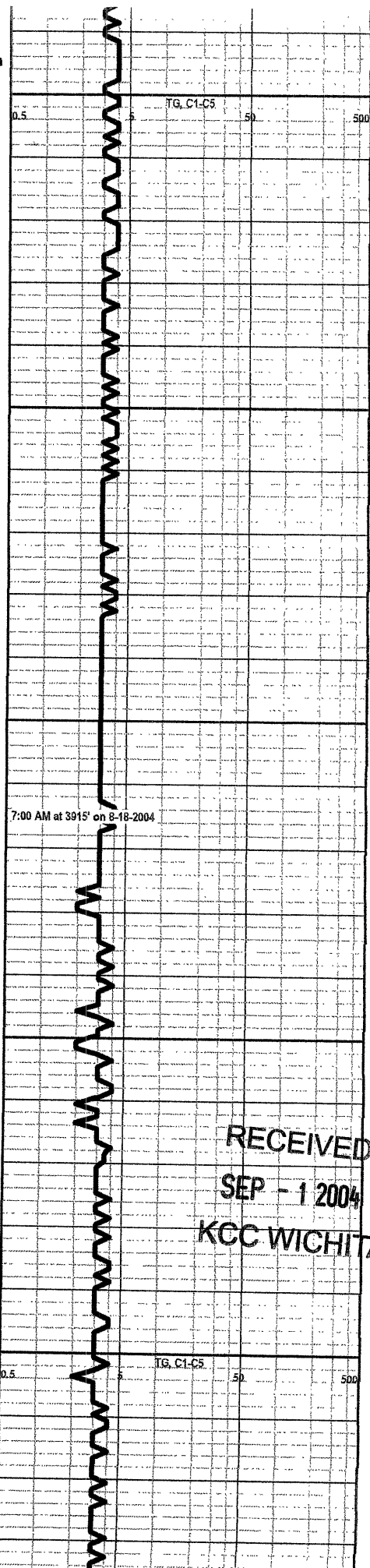
Ls: tan fn-vfxln with pinpoint and poor-fair interxln porosity; occ mottled lt brn with gray oolites in matrix, no visible porosity, N.S.

Ls: flood tan, offwhite mic-vfxln dense, subchalky to chalky IP; lt brn cryptoxln

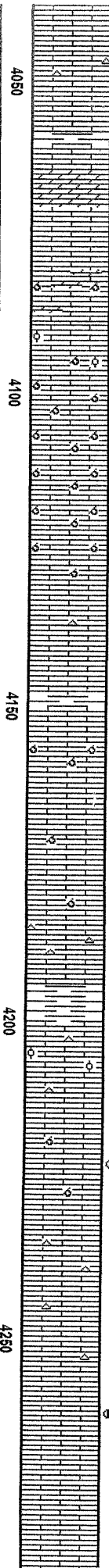
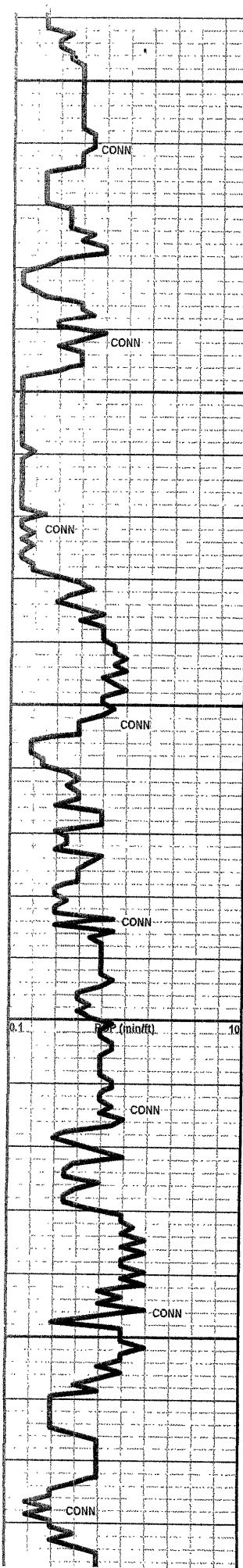
Ls: predom. lt-med brn, tan vf-cryptoxln

Ls: various dense AA; some mottled brn/gray mic-med xln with no visible porosity; Sh: dark gray to black

Ls: few pcs tan, brn mic-vfxln, mealy with dark brn spotty to est stain. nfo. nsa. no flux. faint odor. occ tan bnfvxn



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pungent odor

Ls: tan, lt brn, lt gray cryptoxin; tan, offwhite mic-vfxln dense; influx of offwhite, lt gray chert

Ls: lt-med brn cryptoxin

Dolo: tan fn-vfxln with fair-good interxln porosity, N.S.

Ls: lt brn mic-fnxln with spotty stain in few pcs, poor porosity

Ls: tan, brn oolitic with fair to good oomoldic porosity, sucrosic IP, N.S.; common fnxln sucrosic dolomite

Ls: various brn cryptoxin

Ls: tan, brn oolitic with poor-fair oomoldic porosity, N.S.

Ls: flood tan, brn fn-med oolitic with good to exc. oomoldic porosity, occ coarse oomoldic porosity, N.S.

Ls: lt gray, lt-med brn vf-cryptoxin; occ lt gray opq chert; minor med to dark gray to black shale

Ls: tan oolitic with good oomoldic porosity

Ls: predom. gray, gray-brn vf-cryptoxin

Ls: various dense AA; influx med-dark brn cryptoxin; common oolitic with oomoldic porosity

Ls: flood tan, lt brn, some gray vf-cryptoxin dense; definite influx of offwhite and lt gray chert

Sh: dark gray to black

Ls: influx mottled gray/brn oolitic IP with no visible porosity; lt gray vf-cryptoxin; sl cherty AA

Ls: lt gray, tan, lt brn vfxln, occ cryptoxin; sl mottled tan with gray oolites (cryptoxin), no visible porosity; sl cherty AA, some dark gray chert

Ls: tan oolitic with poor oomoldic porosity with dead dark oil spots, faint odor, trace gas; some tan fnxln with fair-good interxln and pinpoint porosity

Ls: predom. tan, lt-med brn vf-cryptoxin; incr. lt gray opq chert

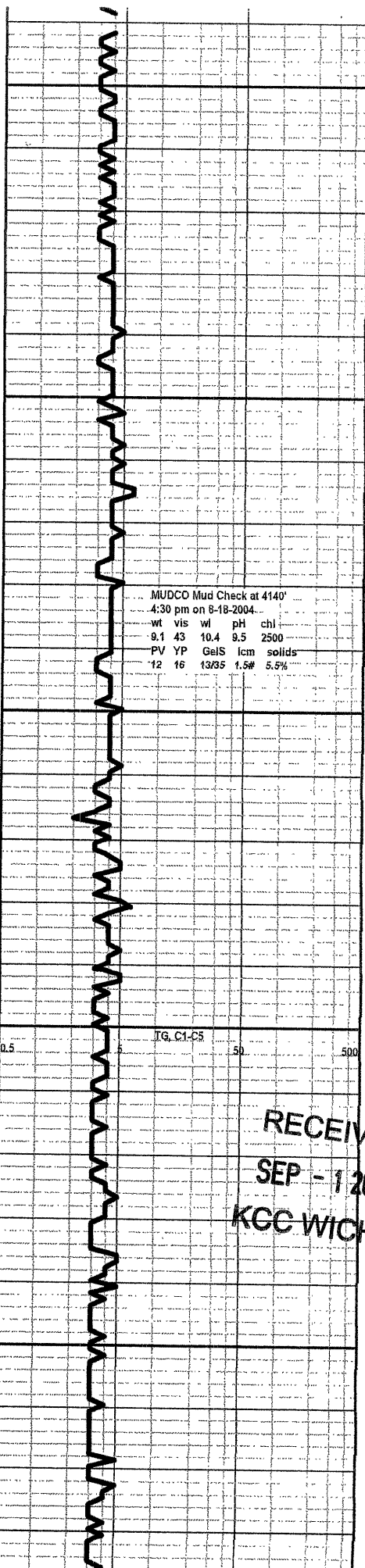
Ls: various dense AA with definite influx of lt gray vf-cryptoxin; occ chert AA

Ls: tan, lt-med brn predom. cryptoxin; occ chert AA

Ls: tan, brn oolitic with fair oomoldic porosity, occ pcs with spotty stain, most barren; trace tan fn-vfxln tite with vsl show of brn listless oil, no fluor., faint odor

Ls: gray, brn vf-cryptoxin

Ls: tan, brn mic-med xln, fossilif. IP with scatt. fair-good vugular porosity, N.S.; tan mottled with gray oolites, no visible porosity, N.S.

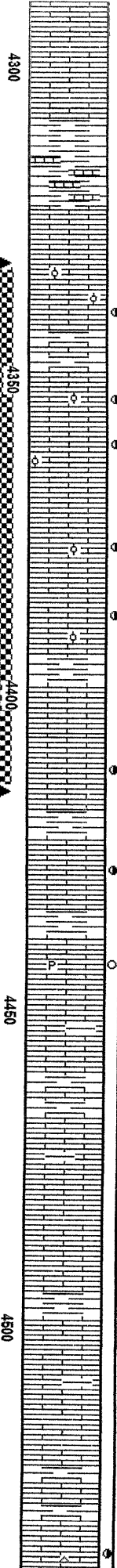
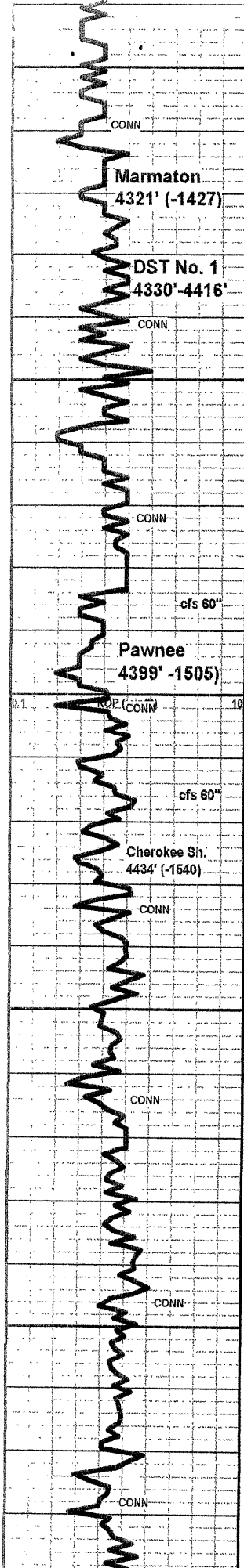


MUDCO Mud Check at 4140'
4:30 pm on 8-18-2004

wt	vis	wt	pH	chl
9.1	43	10.4	9.5	2500
PV	YP	GelS	lcm	solids
12	16	13/35	1.5#	5.5%

0.5	5	TG, C1-C5	50	500

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mottled brn/gray dense granular and fossilif. IP, no visible porosity, N.S.

Ls: various dense AA; some med-dark gray dense shaly and fossilif. Ls

Ls: various dense and shaly AA; shale % is fairly minor in samples

Ls: offwhite, tan mic-vfxln dense, subchalky; various gray, brn vf-cryptoxln AA; 40' spl more shaly than above

Ls: various dense AA; some mottled tan/brn/gray oolitic with gen. poor oomoldic porosity, N.S.; trace gray vfxln with stain in rextal. micro fractures

60' and 70' spls - Ls: various tan, brn vf-cryptoxln; some mottled tan, granular and fossilif., sl oolitic with poor porosity, 1 or 2 pcs per spl with patchy to sat. stain; Sh: med to dark gray, fairly minor %

80' spl - Ls: sl influx mottled dark gray/brn oolitic to granular, no visible porosity, N.S.; some tan., brn fn-med xln, sl oolitic with poor vugular porosity with faint odor, sl show bleeding gassy oil; incr. dark gray shale %

4386' spl - Sh: good influx med-dark gray and mottled gray/green; Ls: flood dark gray sl granular and shaly; some tan granular sl oolitic with gassy oil in fractures and between grain contacts; some tan, offwhite mic-med xln, fossilif. with poor pinpoint porosity with patchy stain, sl odor; cfs spls - dense Ls's with dark gray to black shale

4400/4410' spls - Sh: dark gray to black; Ls: lt-med brn cryptoxln; tan fn-vfxln granular to sl oolitic with vsl odor, spotty stain, sg, sfo on break, dull fluor., fair steam cut

Ls: lt-med brn, gray, gray-brn cryptoxln; influx offwhite subchalky

Ls: tan, brn fn-med xln, fossilif. poor interxln and pinpoint porosity, patchy to sat. stain, faint odor, sg, oily film; lt-med brn cryptoxln

Sh: dark gray to black

Ls: abund. brn, gray, tan cryptoxln; sl influx mottled tan/brn granular; few pcs tan, offwhite mic-med xln with scatt. vug. por. with patchy stain, tite

Sh: dark gray to black

Ls: predom. tan, brn cryptoxln, sl pyritic IP; trace shows AA, possibly new

Ls: brn, tan, gray cryptoxln; some mottled granular; streaks of dark gray to black shale

Ls: various dense AA; incr. tan, brn granular; shales AA

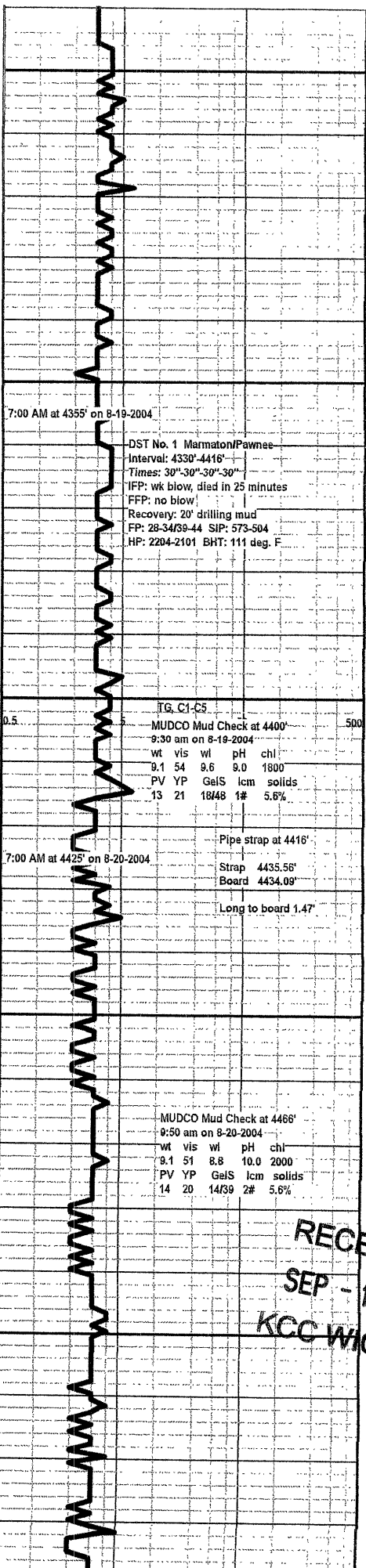
Ls: predom. sl mottled tan/brn/gray granular; Sh: dark gray to black calcar. streaks

Ls: dark brn, gray-brn cryptoxln; influx mottled brn/gray granular; shales AA

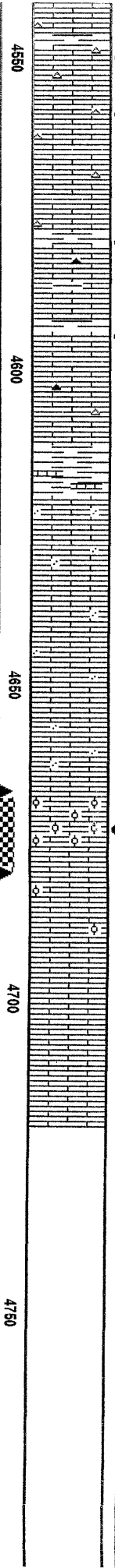
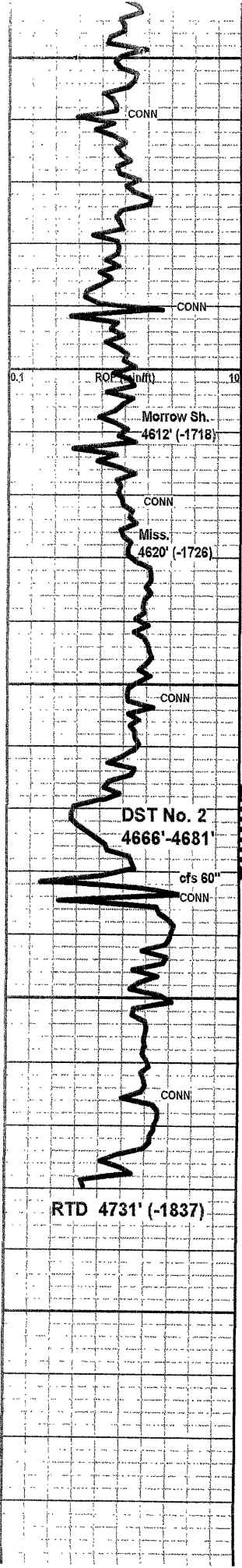
Ls: various brn cryptoxln with shale streaks AA

Ls: AA, mottled IP; Shales AA

Ls: predom. lt-med brn cryptoxln; occ gray, tan chert; minor shale AA; few chips of tan vfxln Ls, very tite with faint odor, sg, spotty stain, nfo



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Ls: various brn, gray-brn cryptoxin; tan vf-cryptoxin; incr. tan, brn chert; trace shows AA

Ls: very predom. med-dark brn cryptoxin; fairly common brn chert; occ chips tan vfxln Ls with patchy stain, poor to no visible pgrosity; some shale AA

Ls: various brn, tan, gray vf-cryptoxin; occ chert AA; shale streaks AA

Ls: predom. lt-med brn cryptoxin, fossilif. IP; some dark gray cryptoxin to sl shaly; occ black chert; trace pcs with stain (recycled?)

Ls: flood dark gray mottled vf-cryptoxin, shaly IP; occ tan vfxln chips with sat. stain, tite

Ls: predom. dark gray, dark gray-brn vf-cryptoxin; some tan cryptoxin; sl incr. dark gray to black shale; occ black chert, trace lt brn chert

30' spl - predom. dark gray dense Ls; some offwhite, tan granular to microsandy Ls (typical St. Gen.); some dark gray to black shale

40' spl - still abund. dark gray dense, sl shaly Ls with incr. tan, offwhite granular Ls AA; Sh: dark gray to black calcar, still minor % of spl

50' spl - Ls: common tan, offwhite vfxln; tan granular, trace with stain; some dark brn cryptoxin; occ lt gray microsandy; influx of Sh: lt-med gray splintery (slough?), gray-green and some mottled gray-brn

60'770' spl - Ls: tan, offwhite granular with micxn matrix; some microsandy AA, N.S.; spls still very shaly with abund. gray and brn dense Ls's from above

80' spl - Ls: predom. tan, lt brn granular with micxn matrix; some lt gray microsandy; some offwhite chalky; some med-dark brn cryptoxin; trace tan oolitic with poor inter-oolitic por. with sat. stain

4681' cfs spls - Ls: influx offwhite oolitic with por. AA with sl odor, sl sg, sfo, stain on grain contacts, some loose oolites in spl tray; Ls: tan, offwhite fvxln, sl granular with micxn to chalky matrix below drilling break, N.S.

4690' and 4700' spls - Ls: predom. tan, offwhite granular to sl oolitic with micxn to chalky matrix; occ chalk, N.S.

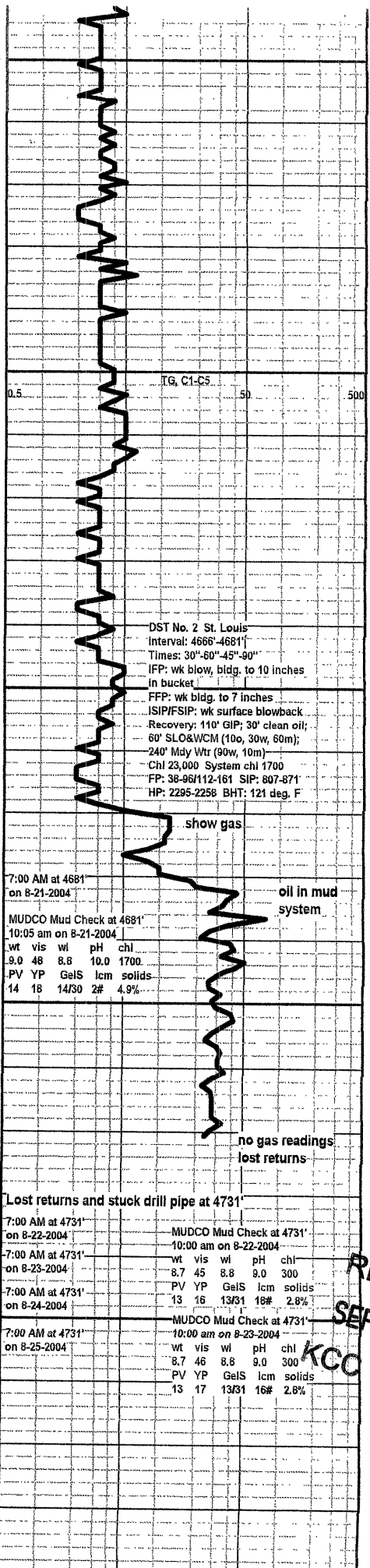
10' spl - Ls: AA; influx tan, lt brn fn-med xln granular; some lt brn cryptoxin, no visible porosity, N.S.

20' spl - Ls: tan, offwhite granular AA; lt-med brn cryptoxin; spls becoming very shaly again (is this indication of start of hole problems?)

30' spl - samples are 80-90% shales with Ls's AA

Prior to losing circulation and sticking the drill pipe, the decision had been made to drill to a RTD of 4800' and log the hole. The concensus was that the well was non-commercial. All attempts to regain circulation and free the drill pipe had failed. The operator elected to back off the drill pipe as deep as possible (1886') and cement the drill pipe and collars in the hole. This process was completed on August 26, 2004.

Respectfully submitted,
Wesley D. Hansen
 Wesley D. Hansen
 Petroleum Geologist
 Kansas License No. 418



DST No. 2 St. Louis Interval: 4666'-4681'
 Times: 30'-60"-45"-90"
 IFF: wk blow, bldg. to 10 inches in bucket
 FFP: wk bldg. to 7 inches
 ISIP/FSIP: wk surface blowback
 Recovery: 110' GIP; 30' clean oil;
 60' SLO&WCM (100, 30w, 60m);
 240' Mdy Wtr (90w, 10m)
 Chl 23,000 System chl 1700
 FP: 38-96/112-161 SIP: 807-871
 HP: 2295-2258 BHT: 121 deg. F

7:00 AM at 4681' on 8-21-2004
 MUDCO Mud Check at 4681'
 10:05 am on 8-21-2004
 wt vis wl pH chl
 9.0 48 8.8 10.0 1700
 PV YP GelS lcm solids
 14 18 14/30 2# 4.9%

Lost returns and stuck drill pipe at 4731'

7:00 AM at 4731' on 8-22-2004
 MUDCO Mud Check at 4731'
 10:00 am on 8-22-2004
 7:00 AM at 4731' on 8-23-2004
 wt vis wl pH chl
 8.7 45 8.8 9.0 300
 PV YP GelS lcm solids
 13 16 13/31 18# 2.8%

7:00 AM at 4731' on 8-24-2004
 MUDCO Mud Check at 4731'
 10:00 am on 8-23-2004
 wt vis wl pH chl
 8.7 46 8.8 9.0 300
 PV YP GelS lcm solids
 13 17 13/31 16# 2.8%

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