

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

7/22/12

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5214
Name: Lario Oil & Gas Company
Address: 301 S. Market
City/State/Zip: Wichita, KS 67202
Purchaser: _____
Operator Contact Person: Jay G. Schweikert
Phone: (316) 265-5611
Contractor: Name: Duke Drilling
License: 5929
Wellsite Geologist: Curtis Covey

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. _____

5-28-10	6-13-10	7-2-10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 063-21840 - 0000
County: Gove
NE NE NW Sec. 31 Twp. 13 S. R. 31 East West
330 feet from S (N) (circle one) Line of Section
2310 feet from E (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: Knapp Well #: 2-31
Field Name: Wildcat
Producing Formation: Lansing H, G & Johnson
Elevation: Ground: 2921' Kelly Bushing: 2930'
Total Depth: 4740' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 244 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2409 Feet
If Alternate II completion, cement circulated from 2409
feet depth to surface w/ 425 sx crmt.

Drilling Fluid Management Plan 8-10-2010 DUEA#11
(Data must be collected from the Reserve Pit)
Chloride content 12,400 ppm Fluid volume 680 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.: _____

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: Jay G. Schweikert
Title: Jay G. Schweikert, Operations Engineer Date: 7-20-10

Subscribed and sworn to before me this 20th day of July
20 10 KATHY L. FORD
Notary Public - State of Kansas
My Appt. Expires 10-22-10
Notary Public: Kathy L Ford
Date Commission Expires: 10-22-10

KCC Office Use ONLY
 Letter of Confidentiality Received 7/22/10 - 7/22/12
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
RECEIVED
AUG 04 2010
KCC WICHITA

Operator Name: Lario Oil & Gas Company Lease Name: Knapp Well #: 2-31
 Sec. 31 Twp. 13 S. R. 31 East West County: Gove

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Compensated Sonic/Compact Photo Density/Micro Resistivity/Compensated Neutron/Array Induction	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>3901</td> <td>-971</td> </tr> <tr> <td>Lansing</td> <td>3945</td> <td>-1015</td> </tr> <tr> <td>Hushpuckney</td> <td>4222</td> <td>-1292</td> </tr> <tr> <td>Base KC</td> <td>4262</td> <td>-1332</td> </tr> <tr> <td>Pawnee</td> <td>4384</td> <td>-1454</td> </tr> <tr> <td>Ft. Scott</td> <td>4416</td> <td>-1486</td> </tr> <tr> <td>Morrow</td> <td>4535</td> <td>-1605</td> </tr> <tr> <td>Mississippian</td> <td>4586</td> <td>-1656</td> </tr> </table>	Name	Top	Datum	Heebner	3901	-971	Lansing	3945	-1015	Hushpuckney	4222	-1292	Base KC	4262	-1332	Pawnee	4384	-1454	Ft. Scott	4416	-1486	Morrow	4535	-1605	Mississippian	4586	-1656
Name	Top	Datum																										
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Mississippian	4586	-1656																										

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 1/4"	8 5/8"	23#	244'	Common	160	2% gel, 3% cc
production		5 1/2"	15.5#	4735'	AA2	175	10# salt, 8% FLA, 5# gl., 25% DF
DV tool				2409'	ACON Lite	350	1/4# Floseal

ADDITIONAL CEMENTING / SQUEEZE RECORD Prem, Plus 75 sx-1/4# Floseal, 2% CC				
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				

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
		Amount	Kind	
4	4524' - 4530'	300 gal	15% MCA	4516' - 4530'
4	4516' - 4520'	1000 gal	15% NEFE	4516' - 4530'
4	4102' - 4105'	250 gal	15% MCA	4102' - 4105'
		750 gal	15% NEFE	4102' - 4105'
4	4111' - 4117'	600 gal	15% MCA, 2% flush	4111' - 4117'

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 3/8"	4697'			
Date of First, Resumerd Production, SWD or Enhr. 7-16-10			Producing Method <input type="checkbox"/> Flowing <input checked="" 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	
	163	0	20			

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____



PAGE 1 of 1	CUST NO 1002301	INVOICE DATE 06/14/2010
INVOICE NUMBER 1717 - 90337192		

Liberal (620) 624-2277
 B LARIO OIL & GAS
 I PO Box: 1093
 L GARDEN CITY
 L KS US 67846
 T
 O ATTN:

J LEASE NAME Knapp #2-31
 O LOCATION
 B COUNTY Gove
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 B JOB CONTACT

CR 6/16/10 Drilling

JOB # 40194254	EQUIPMENT # 27808	PURCHASE ORDER NO. AFE-10-118	TERMS Net - 30 days	DUE DATE 07/14/2010
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For Service Dates: 06/13/2010 to 06/13/2010	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
0040194254				
171700699A Cement-New Well Casing/Pi 06/13/2010 5 1/2" - 2stage Longstring				
AA2 Cement	175.00	EA	10.40	1,819.41
A-Con Blend	375.00	EA	10.63	3,984.44
Premium Plus Cement	100.00	EA	9.31	931.13
Salt	882.00	EA	0.29	251.92
Gilsonite	876.00	EA	0.38	335.27
CAF 38 Defoamer	42.00	EA	4.00	167.95
FLA-115	99.00	EA	8.57	848.30
WCA-1	71.00	EA	14.28	1,013.96
Celloflake	119.00	EA	2.11	251.52
Calcium Chloride	1,247.00	EA	0.60	747.96
Auto Fill Float Shoe - 5 1/2"	1.00	EA	205.65	205.65
Basket - 5 1/2"	1.00	EA	165.66	165.66
Latch Down Plug & Assembly - 5 1/2"	1.00	EA	485.56	485.56
Centralizer - 5 1/2"	16.00	EA	62.84	1,005.39
Two Stage Cement Collar - 5 1/2"	1.00	EA	3,484.59	3,484.59
Threadlock Compound Kit	1.00	EA	19.42	19.42
Super Flush II	500.00	EA	0.87	437.00
Heavy Equipment Mileage	300.00	MI	4.00	1,199.61
Blending & Mixing Service Charge	650.00	MI	0.80	519.83
Proppant and Bulk Delivery Charge	3,060.00	MI	0.91	2,796.81
Depth Charge; 4001' - 5000'	1.00	EA	1,439.54	1,439.54
Plug Container Charge	1.00	EA	142.81	142.81
Service Supervisor Charge	1.00	HR	99.97	99.97
Car, Pickup or Van Mileage	100.00	MI	2.243	224.30

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CC	FILE		
KG			
HY			DB
PV			MM
OD	KS	KF	BV SF DM

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP PO BOX 10460 MIDLAND, TX 79702	SUB TOTAL TAX INVOICE TOTAL	22,596.48 760.61 23,357.09
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ALLIED CEMENTING CO., LLC. 043623

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

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SERVICE POINT:
OKLEY

DATE <u>5-29-10</u>	SEC <u>31</u>	TWP. <u>13S</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION <u>2:30 PM</u>	JOB START <u>5:00 PM</u>	JOB FINISH <u>5:30 PM</u>
LEASE <u>KNAPP</u>	WELL # <u>2-31</u>	LOCATION <u>OKLEY 205-2E-4N-E20</u>			COUNTY <u>GOVE</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR DUKE DRLG REG #4

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 244

CASING SIZE 8 7/8" DEPTH 244

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 14 1/2 BBLs

OWNER SAME

CEMENT AMOUNT ORDERED 160 SKS COM 3% CC 2% GEI

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

423-281 HELPER ANDREW

BULK TRUCK DRIVER JERRY

377

BULK TRUCK DRIVER _____

COMMON	<u>160 SKS</u>	@	<u>15.45</u>	<u>2472.00</u>
POZMIX		@		
GEL	<u>3 SKS</u>	@	<u>20.80</u>	<u>62.40</u>
CHLORIDE	<u>6 SKS</u>	@	<u>58.20</u>	<u>291.60</u>
ASC		@		
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HANDLING	<u>168 SKS</u>	@	<u>2.40</u>	<u>403.20</u>
MILEAGE				<u>168</u>
				TOTAL <u>3396.00</u>

REMARKS:
MIX 160 SKS COM 3% CC 2% GEI
DISPLACC WITH 14 1/2 BBLs. FRESH
WATER.

CEMENT DID CURE

THANK YOU

CHARGE TO: LARIO OIL + GAS.

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>244</u>		
PUMP TRUCK CHARGE			<u>1018.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>20 MI</u>	@	<u>7.00</u>
MANIFOLD		@	
TOTAL <u>1158.00</u>			

PLUG & FLOAT EQUIPMENT

<u>1-SURFACE Plug</u>			<u>68.00</u>
	@		
	@		
	@		
	@		
TOTAL <u>68.00</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 Rich Wheeler

SIGNATURE Rich Wheeler

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

BID



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 122903

Invoice Date: May 29, 2010

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

Bill To:

Lario Oil & Gas Co.
P.O. Box 1093
Garden City, Ks 67846

Drilling AFE 10-118
6-4-10 LK

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Lario	Knapp #2-31	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 29, 2010	6/28/10

Quantity	Item	Description	Unit Price	Amount
160.00	MAT	Class A Common	15.45	2,472.00
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	48.50	291.00
168.00	SER	Handling	2.40	403.20
1.00	SER	Handling Mileage Charge	168.00	168.00
1.00	SER	Surface	1,018.00	1,018.00
20.00	SER	Pump Truck Mileage	7.00	140.00
1.00	EQP	8.5/8 Surface Plug	68.00	68.00

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KG	DB
HY	MM
FV	DM
OD	

JUN 07 2010

Subtotal	4,622.60
Sales Tax	203.98
Total Invoice Amount	4,826.58
Payment/Credit Applied	
TOTAL	4,826.58

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1155.65

ONLY IF PAID ON OR BEFORE
Jun 23, 2010



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd. **KCC**
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

CONFIDENTIAL
JUL 22 2010

FIELD SERVICE TICKET
1717 00000 A

DATE OF JOB: 6-17-10 DISTRICT: 1117
 CUSTOMER: [Handwritten] LEASE: [Handwritten] WELL NO.: [Handwritten]
 ADDRESS: [Handwritten] COUNTY: [Handwritten] STATE: [Handwritten]
 CITY: [Handwritten] STATE: [Handwritten] SERVICE CREW: [Handwritten]
 AUTHORIZED BY: **Bennett JRB** JOB TYPE: [Handwritten]

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
2115	1.5	14354	3.5				6-17	AM	7:30
2450	1.5	17577	3.5				6-17	AM	14:30
19003	1.5						6-17	AM	17:00
33021							6-17	AM	17:11
19877							6-17	AM	18:00
						MILES FROM STATION TO WELL	190		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
2116	AA3	SK	175		3185.00
2117	AA3	SK	345		6975.00
2118	AA3	SK	100		1630.00
2111	AA3	SK	222		441.00
2120	AA3	SK	771		586.92
2167	AA3	SK	42		294.00
2124	AA3	SK	99		1485.00
2130	AA3	SK	71		1775.00
2102	AA3	SK	117		440.30
2109	AA3	SK	1247		1309.35
2151	AA3	SK	1		360.00
21901	AA3	SK	1		290.00
2161	AA3	SK	1		850.00
21771	AA3	SK	11		1760.00
2141	AA3	SK	1		6100.00
21300	AA3	SK	1		34.00
2101	AA3	SK	300		2100.00
2140	AA3	SK	1		910.00
2113	AA3	TM	3010		14896.00
SUB TOTAL					22571.48

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CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. [Handwritten]

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TREATMENT REPORT

Customer <i>LARID Oil + Gas</i>	Lease No.	Date <i>6-13-10</i>
Lease <i>Knapp</i>	Well # <i>2-31</i>	
Field Order # <i>17170699</i>	Station <i>Liberal 11</i>	Casing <i>5 1/2 19"</i>
		Depth <i>4741</i>
Type Job <i>742</i>	Formation <i>5 1/2 2 stage</i>	County <i>GOVC</i>
		State <i>Ks</i>
		Legal Description <i>31-17-31</i>

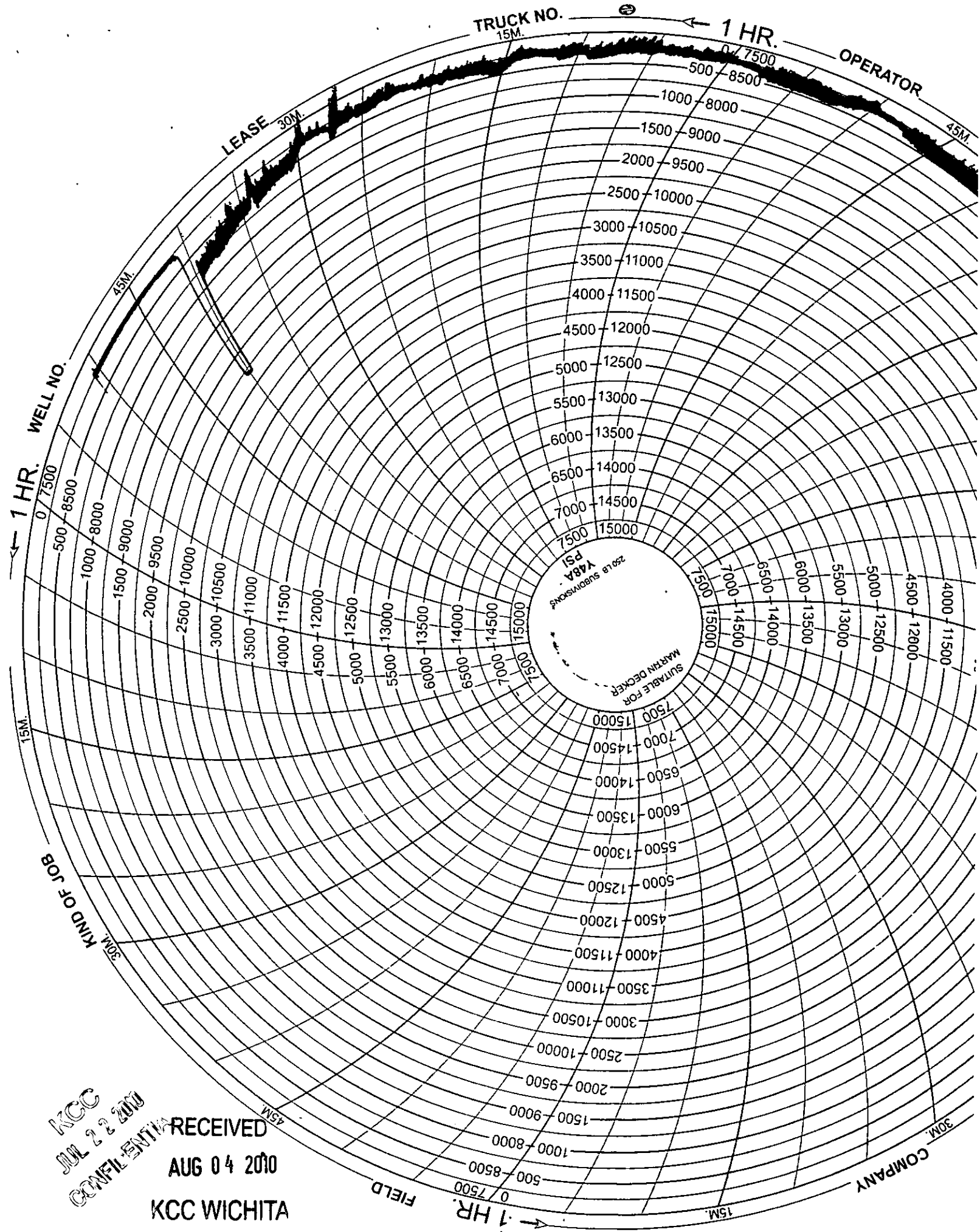
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <i>5 1/2 19"</i>	Tubing Size	Shots/Ft <i>175-175</i>	Acid <i>AAE-67.51A-102.511</i>	Pre Pad <i>6.03 gal/sk</i>	Max <i>15 #/gal</i>	RATE	PRESS
Depth <i>4741</i>	Depth	From	From	From	From	ISIP #	ISIP #
Volume	Volume	From	From	From	From	ISIP #	ISIP #
Max Press	Max Press	From	From	From	From	ISIP #	ISIP #
Well Connection	Annulus Vol.	From	From	From	From	ISIP #	ISIP #
Plug Depth	Packer Depth	From	From	From	From	ISIP #	ISIP #

Customer Representative <i>Jay S.</i>	Station Manager <i>J. Bennett</i>	Treater <i>M. C. ...</i>
Service Units <i>21755 27817 17553 33021 19883 14354 19578</i>		
Driver Names <i>Chisholm Gibson J. Martinez S. Chance</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:30					on loc. w/ F.E. + PIT
15:30					Start Csg Tool @ 2456'
17:30					Csg on Bottom Cir. w/ R.
19:11	3000				Test Pump + Lines
19:16	410		5	5	Start Fresh H ₂ O
19:17	400		12	5	Start Super Flush II
19:20	400		5	5	Start Fresh H ₂ O
19:21	450		44	5	Start Cmt 175 sk @ 15 #
19:31					Shutdown + Wash up
19:33					Drop Plug
19:37	260		0	7	Start Disp. w/ fresh H ₂ O
19:44	300		50	7	Switch to mud
19:52	750		110	3	Slow Rate
19:54	1100		115	3	Crump Plug
19:55	2			0	Release / Start Hold
20:00					Drop Opening Plug
20:17	800				Open Tool
20:25					Cir. w/ Rig
23:25	110		6	2	Plug Rat H ₂ O w/ 25-100 @ 14.0 #
23:31	200		211	5	Start Lead Cmt 345 sk @ 11.5 #

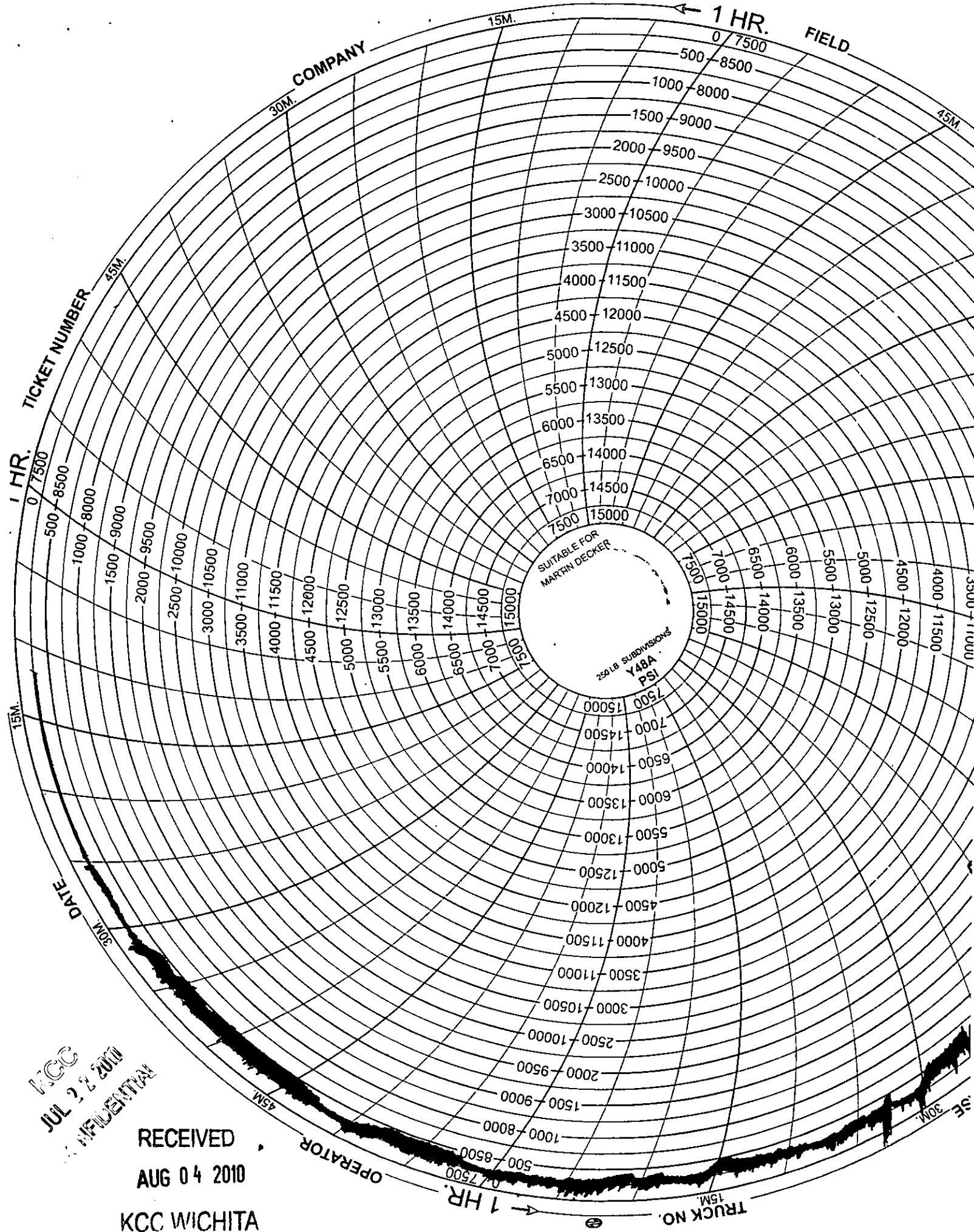
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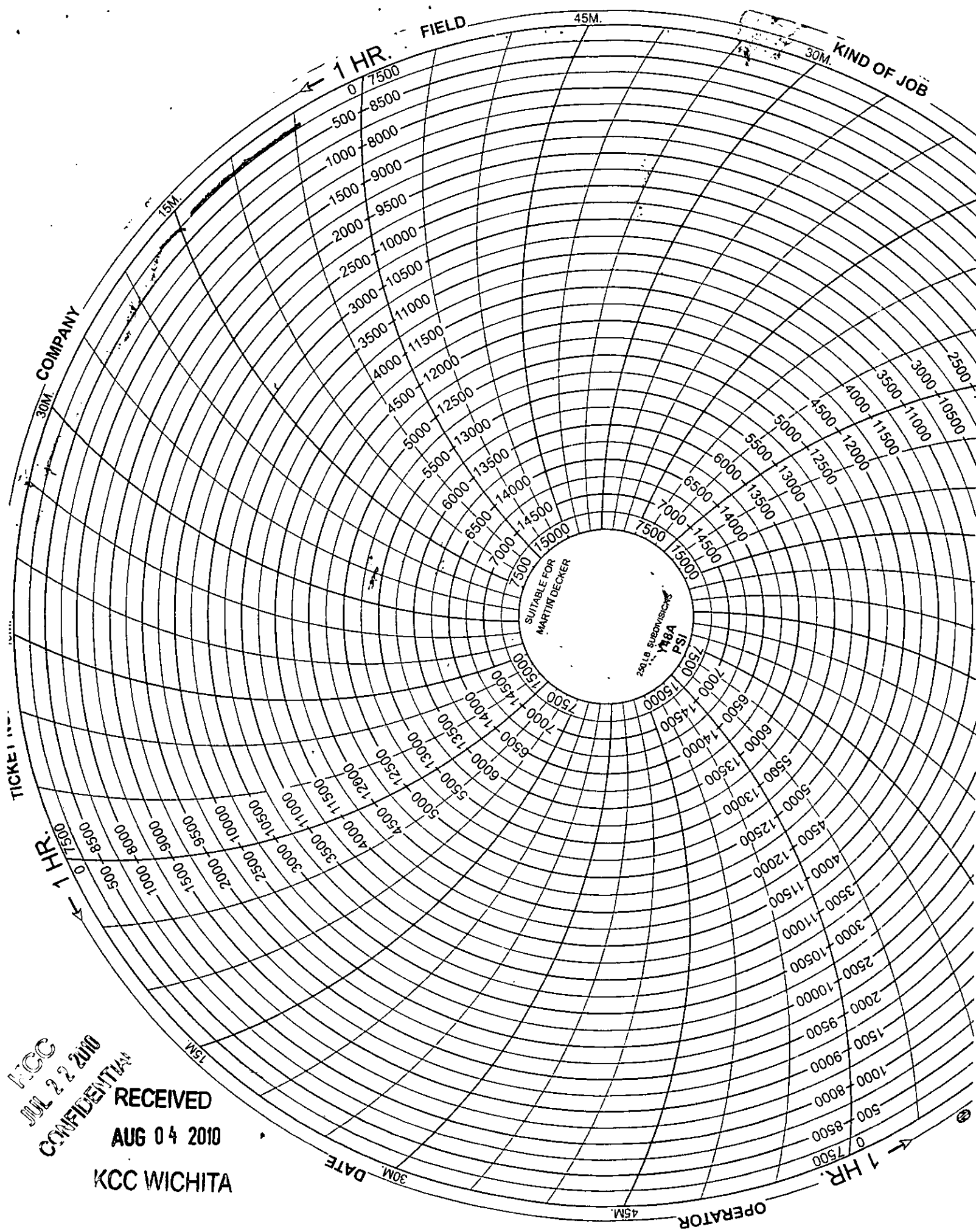
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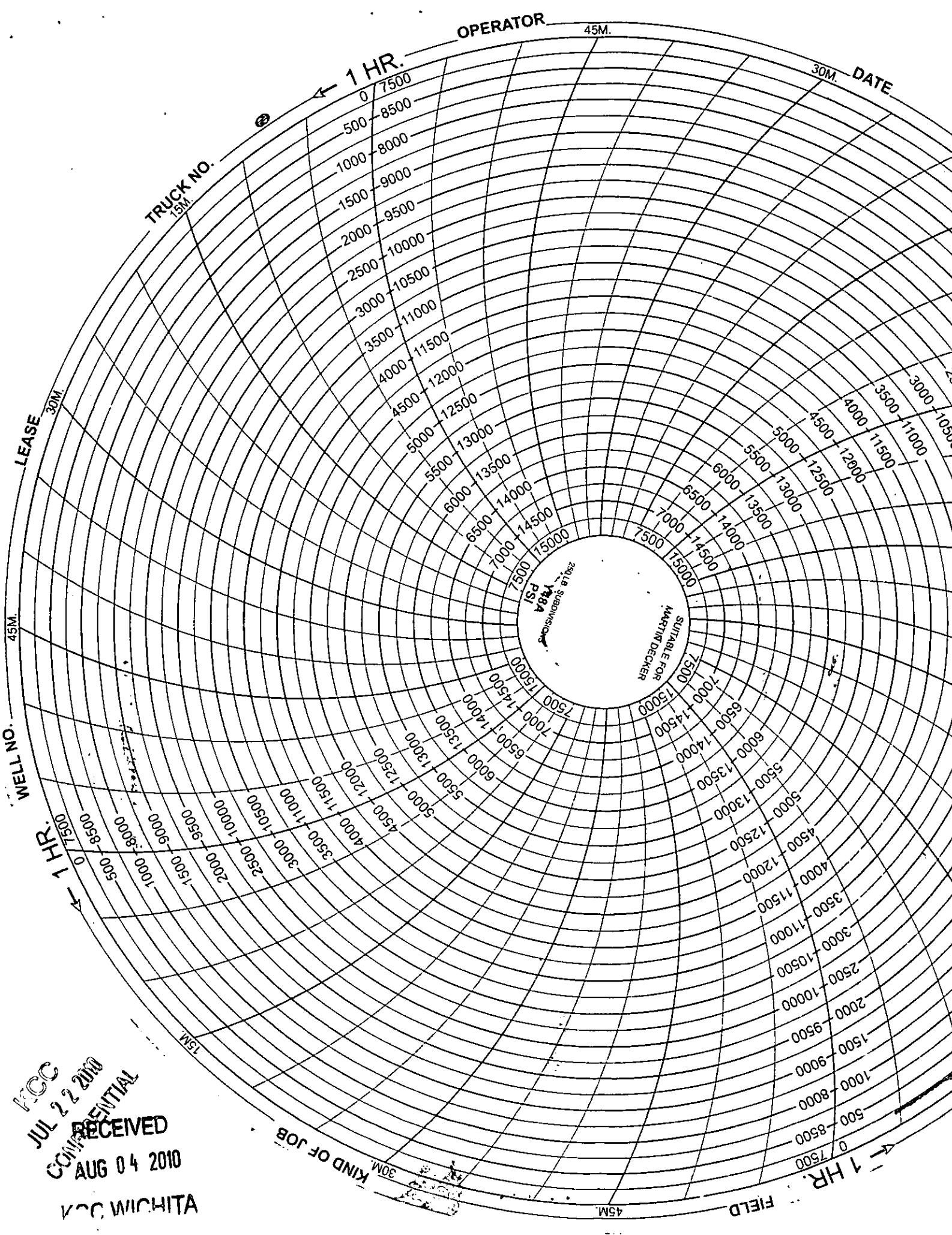
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KCC
 JUL 22 2010
 CONFIDENTIAL

RECEIVED
 AUG 04 2010
 KCC WICHITA



MCC
 JUL 22 2010
 RECEIVED
 AUG 04 2010
 WICHITA

KIND OF JOB

45M.

FIELD

1 HR.

15M.

WELL NO.

45M.

LEASE

30M.

TRUCK NO.

15M.

1 HR.

OPERATOR

45M.

30M.

DATE

SUITABLE FOR
MARTIN DECKER

2014 SUBMISSIONS
1784
PSI

Mud-Co / Service Mud. Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **7**

Daily Drilling Mud Report

Date: **06/07/10** Depth: **4142'**

Operator Lario Oil and Gas	Contractor Duke	Rig No. 4
Address Rig	Address Rig	Spud Date 05/31/10
Report for Mr. Curtis Covey	Report for Mr. Rich Wheeler	Section 31 Twp 13 Range 31
Well Name & No. Knapp 2-31	County Gove	State Kansas

Operation	Casing	Mud Volume (BBL)	Circulation Data			
Present Activity Drilling	8 5/8 in. at 244	Hole 290 Pits 400	Liner Size 6 Stroke 14	Opposite Drill Pipe 203	Pump Pressure 900	
Bit Size (in.) 7 7/8	No 2	Intermediate in. at	Total Circulating Vol. 690	Pump Make & Model	Opposite Drill Collars 369	Pump Make Emsco
Drill pipe sz 4 1/2	Type XH	Production / Liner in. at	Volume in Storage Volume	BBV Strk 0.137 Strk / Min. 60	Bottoms Up (Min.) 36	Pump Model D-300
Drill Collar size 6 1/4	450	Drilling mud type Chemical	BBL/Min. 8.2 GAL/Min. 345		84	

Sample from Flowline _ x	Daily Mud Cost 140.00	Cumulative Mud Cost 6,565.95
Flowline Temperature _____	Mud Properties	

Time Sample Taken	11:55am	Please
Depth (Ft.)	4142'	keep
Weight (lb/gal.)	9.1	gel &
Mud Gradient (psi/ft.)	0.473	chemicals
Funnel Viscosity (Sec/qt. API)	54	covered
Plastic Viscosity cp	17	
Yield Point (lb/100 sq.ft.)	19	
Gel Strength 10 sec/10 min.	14/40	
pH	10.0	
Filtrate API (ml/30 min.)	8.8	
Cake Thickness 32nd	1	
Alkalinity, Mud (Pm)		
Alkalinity, Filtrate (Pf/Mf)	.4	
Chloride Content, ppm	4,900	
Calcium, ppm	40	
Sand Content (% by Vol)	tr.	
Solids Content (% by Vol.)	5.2	
Oil Content (% by Vol.)		
Water Content (% by Vol.)	94.8	
LCM, lbs/bbl.	1/2 #	
Reynold's #DP	1,529	
Reynold's # DC	2,411	
ECD lb/gal		

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.)	Viscosity	Filtrate	LCM
9.2-9.3	50-55	8-10 cc	1-2 #

Suggest

- Control mud wt. 9.2-9.3 #/gal. w/water at sample box.
- Vis- 50-55 sec/qt. w/this premix.
50 bbl pit mud
50 bbl water
2 sx soda ash
1 sx caustic
1 sx lignite
1/2 sx pac
gel as needed
- LCM- 1-2 #/bbl w/hulls.
5. Keep hole full on trips. Break circulation on trips in hole w/bit. Do not shake pipe.

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
100# Gel	235		235		
Lime	4		4		
Soda Ash	12		12		
Caustic Soda	10		10		
Lignite	6		6		
C/S Hulls	138		128	10	140.00
Drill Pak	4		4		
Desco	2		2		
Poly Plus	2		2		
Multi Blend					
Salt Clay					
Starch					
50# Gel					
Flozan					

Thanks,

Mud-Co / Service Mud Representative Tony Maestas	Home Address Lamar, Co.	Telephone Number 719-336-7006
Cell- 316-772-6679	Warehouse Location Pratt, Ks.	Telephone Number 620-672-2957