



KANSAS CORPORATION COMMISSION 1132600  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

County: \_\_\_\_\_

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

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1132600

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

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

**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**CONSOLIDATED**  
Oil Well Services, LLC

# 1012

TICKET NUMBER 38881

LOCATION Ottawa

FOREMAN Alan Mader

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-13		Mini-Farm #1	NW 23	12	20	LV
CUSTOMER Heavy Oil Treatment Solutions						
MAILING ADDRESS 1513 Mustangs Dr.			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Baldwin City			516	Ala Mar	Safety Meet	
STATE KS			368	Art McD	AKM	
ZIP CODE 66006			675	Kei Det	KD	
			558	Bre Man	BM	

JOB TYPE long string HOLE SIZE 5 1/8 HOLE DEPTH 872 CASING SIZE & WEIGHT 2 7/8  
 CASING DEPTH 865 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING yes  
 DISPLACEMENT 5 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Held meeting. Hooked to casing. Established rate. Mixed + pumped 100# gel followed by 130 sk 60/40 cement plus 270 gal. Circulated cement. Flushed pump. Pumped plug to casing TD. Well held 800 PSI. Set float.

HAT Drilling, Eric

*Alan Mader*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1030.00
5406	40	MILEAGE	368	160.00
5402	865	casing footage	368	---
5407	min	ton miles	558	350.00
5502C	3	80 gal	675	210.00
1131	130	60/40 cement		11428.50
1118B	324#	gel		68.04
4402	1	2 1/2 plug		28.00
PAID #1012 check				
Thanks				
				SALES TAX 3628.57
				ESTIMATED TOTAL 3663.71

Revin 3737

AUTHORIZATION *[Signature]* TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form





**CONSOLIDATED**  
Oil Well Services, LLC

256931

TICKET NUMBER 38830

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2/19/13		Mini-Farm #1	NW 23	12	20	LV
CUSTOMER Heavy Oil Treatment Solutions LLC			TRUCK #			
MAILING ADDRESS 1513 Mustang Dr			481	Driver Caskan	TRUCK #	DRIVER
CITY Baldwin City			6606	Gar Moo	✓	✓ Safety Meeting
STATE KS			510	Set Tuc	✓	
ZIP CODE 66006						

JOB TYPE surface HOLE SIZE 11" HOLE DEPTH 68' CASING SIZE & WEIGHT 7"  
 CASING DEPTH 68' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 8'  
 DISPLACEMENT 2.5 bbs DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped  
Class "A" cement w/ 2% gel, 2% Calcium, + 1/4 # Flo Seal per sk,  
cement to surface, displaced cement w/ 2.5 bbs fresh water, 8' left  
in casing, shot in casing.

HAT Drilling supplied H<sub>2</sub>O

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE		825.00
5406	42 mi	MILEAGE		108.00
5402	68'	casing footage		
5407	minimum	ton mileage		350.00
11045	35 sks	Class "A" cement		523.25
1102	64 #	Calcium chloride		48.84
118B	66 #	Premium Gel		13.86
1107	9 #	Flo Seal		21.15
Paid check # 1008				
\$ 2770.81				
			7.3%	SALES TAX
				ESTIMATED TOTAL
				44.32
				1994.42

completed

Revin 3737 AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34847  
Name: Heavy Oil Treatment Solutions, LLC  
Address 1: 1513 Mustang Drive  
Address 2: \_\_\_\_\_  
City: Baldwin City State: Kansas Zip: 66006 + \_\_\_\_\_  
Contact Person: Jim Mietchen  
Phone: ( 785 ) 594-7100  
CONTRACTOR: License # 33734  
Name: Hat Drilling Co.  
Wellsite Geologist: none  
Purchaser: NA

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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled      Permit #: \_\_\_\_\_  
 Dual Completion      Permit #: \_\_\_\_\_  
 SWD      Permit #: \_\_\_\_\_  
 ENHR      Permit #: \_\_\_\_\_  
 GSW      Permit #: \_\_\_\_\_

<u>2/19/13</u>	<u>3/7/13</u>	<u>3/7/13</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 103-21374-00-00

Spot Description: \_\_\_\_\_  
NE SE NE NW Sec. 23 Twp. 12 S. R. 20  East  West  
4,435 Feet from  North /  South Line of Section  
2,805 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE       NW       SE       SW

County: Leavenworth

Lease Name: Mini-Farm Well #: 1

Field Name: Six Corners

Producing Formation: Squirrel

Elevation: Ground: 910 Kelly Bushing: \_\_\_\_\_

Total Depth: 872 Plug Back Total Depth: 865

Amount of Surface Pipe Set and Cemented at: 66.5 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: 1900 ppm Fluid volume: 20 bbls

Dewatering method used: Evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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.

**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.

Signature: [Signature]  
Title: MANAGING DIRECTOR Date: 4/8/13

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: Heavy Oil Treatment Solutions, LLC Lease Name: Mini-Farm Well #: 1  
 Sec. 23 Twp. 12 S. R. 20  East  West County: Leavenworth

**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>squirrel</td> <td>765</td> <td>772</td> </tr> <tr> <td>squirrel</td> <td>808</td> <td>814</td> </tr> </table>	Name	Top	Datum	squirrel	765	772	squirrel	808	814
Name	Top	Datum								
squirrel	765	772								
squirrel	808	814								

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
surface	11"	7 "	20 #	66.5'	class A	35	66 # CaCl
							9 # flow seal
longstring	5 7/8"	2 7/8"	8000 #	865	60/40	130	327 # Gel

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				

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
	Not Perforated		

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

Date of First, Resumed Production, SWD or ENHR. <b>Not in production</b>	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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**CONSOLIDATED**  
Oil Well Services, LLC

# 1012

TICKET NUMBER 38881

LOCATION Ottawa

FOREMAN Alan Mader

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-13		Mini-Farm #1	NW 23	12	20	LV
CUSTOMER Heavy Oil Treatment Solutions						
MAILING ADDRESS 1513 Mustangs Dr.						
CITY Baldwin City		STATE KS	ZIP CODE 66006			
JOB TYPE <u>long string</u>		HOLE SIZE <u>5 1/8</u>	HOLE DEPTH <u>872</u>	CASING SIZE & WEIGHT <u>2 7/8</u>		
CASING DEPTH <u>865</u>		DRILL PIPE	TUBING	OTHER		
SLURRY WEIGHT		SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>yes</u>		
DISPLACEMENT <u>5</u>		DISPLACEMENT PSI <u>800</u>	MIX PSI <u>200</u>	RATE <u>4 bpm</u>		
REMARKS: <u>Held meeting. Hooked to casing. Established rate. Mixed + pumped 100# gel followed by 130 sk 60/40 cement plus 270 gal. Circulated cement. Flushed pump. Pumped plug to casing TD. Well held 800 PSI. Set float.</u>						

TRUCK #	DRIVER	TRUCK #	DRIVER
516	Ala Mar	Safety Meet	
368	Art McD	AKM	
675	Kei Det	KD	
558	Bre Man	BM	

HAT Drilling, Eric

*Alan Mader*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1030.00
5406	40	MILEAGE	368	160.00
5402	865	casing footage	368	
5407	min 3	ton miles	558	350.00
5502C	3	80 gal	675	270.00
1131	130	60/40 cement		1423.50
118B	327#	gel		68.04
4402	1	2 1/2 plug		28.00
PART # 1012 check Thanks				
				SALES TAX 3628.57
				ESTIMATED TOTAL 3663.71

Ravin 3737

AUTHORIZATION *[Signature]* TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form





**CONSOLIDATED**  
Oil Well Services, LLC

256931

TICKET NUMBER 38830

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2/19/13		Mini-Farm #1	NW 23	12	20	LV
CUSTOMER Heavy Oil Treatment Solutions LLC			TRUCK #			
MAILING ADDRESS 1513 Mustang Dr			481	Driver Caskan	TRUCK #	DRIVER
CITY Baldwin City	STATE KS	ZIP CODE 66006	6606	Gardner	✓	Safety Meeting
			510	Set Tuc	✓	

JOB TYPE surface HOLE SIZE 11" HOLE DEPTH 68' CASING SIZE & WEIGHT 7"  
 CASING DEPTH 68' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 8'  
 DISPLACEMENT 2.5 bbs DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped  
Class "A" cement w/ 2% gel, 2% Calcium, + 1/4 # Flo Seal per sk,  
cement to surface, displaced cement w/ 2.5 bbs fresh water, 8' left  
in casing, shot in casing.

HAT Drilling supplied H<sub>2</sub>O

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE		825.00
5406	42 mi	MILEAGE		108.00
5402	68'	casing footage		
5407	minimum	ton mileage		350.00
11045	35 sks	Class "A" cement		523.25
1102	64 #	Calcium Chloride		48.84
118B	66 #	Premium Gel		13.86
1107	9 #	Flo Seal		21.15
Paid check # 1008				
\$ 2770.81				
			7.32%	SALES TAX
				ESTIMATED TOTAL
				1994.42

Revin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34847  
Name: Heavy Oil Treatment Solutions, LLC  
Address 1: 1513 Mustang Drive  
Address 2: \_\_\_\_\_  
City: Baldwin City State: Kansas Zip: 66006 + \_\_\_\_\_  
Contact Person: Jim Mietchen  
Phone: (785) 594-7100  
CONTRACTOR: License # 33734  
Name: Hat Drilling Co.  
Wellsite Geologist: none  
Purchaser: NA

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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled     Permit #: \_\_\_\_\_  
 Dual Completion     Permit #: \_\_\_\_\_  
 SWD     Permit #: \_\_\_\_\_  
 ENHR     Permit #: \_\_\_\_\_  
 GSW     Permit #: \_\_\_\_\_

2/19/13     3/7/13     3/7/13  
Spud Date or     Date Reached TD     Completion Date or  
Recompletion Date         Recompletion Date

API No. 15 - 103-21374-00-00

Spot Description: \_\_\_\_\_  
NE\_SE\_NE\_NW Sec. 23 Twp. 12 S. R. 20  East  West  
4,435 Feet from  North /  South Line of Section  
2,805 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE      NW      SE      SW

County: Leavenworth

Lease Name: Mini-Farm Well #: 1

Field Name: Six Corners

Producing Formation: Squirrel

Elevation: Ground: 910 Kelly Bushing: \_\_\_\_\_

Total Depth: 872 Plug Back Total Depth: 865

Amount of Surface Pipe Set and Cemented at: 66.5 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: 1900 ppm Fluid volume: 20 bbls

Dewatering method used: Evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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.

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.

Signature: [Handwritten Signature]

Title: MANAGING DIRECTOR Date: 4/8/13

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: Heavy Oil Treatment Solutions, LLC Lease Name: Mini-Farm Well #: 1  
 Sec. 23 Twp. 12 S. R. 20  East  West County: Leavenworth

**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>squirrel</td> <td>765</td> <td>772</td> </tr> <tr> <td>squirrel</td> <td>808</td> <td>814</td> </tr> </table>	Name	Top	Datum	squirrel	765	772	squirrel	808	814
Name	Top	Datum								
squirrel	765	772								
squirrel	808	814								

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
surface	11"	7 "	20 #	66.5'	class A	35	66 # CaCl
							9 # flow seal
longstring	5 7/8"	2 7/8"	8000 #	865	60/40	130	327 # Gel

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				

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
	Not Perforated		

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

Date of First, Resumed Production, SWD or ENHR. <b>Not in production</b>	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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**CONSOLIDATED**  
Oil Well Services, LLC

# 1012

TICKET NUMBER 38881

LOCATION Ottawa

FOREMAN Alan Mader

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-13		Mini-Farm #1	NW 23	12	20	LV
CUSTOMER Heavy Oil Treatment Solutions						
MAILING ADDRESS 1513 Mustangs Dr.						
CITY Baldwin City		STATE KS	ZIP CODE 66006			
JOB TYPE <u>long string</u>			HOLE SIZE <u>5 1/8</u>	HOLE DEPTH <u>872</u>	CASING SIZE & WEIGHT <u>2 7/8</u>	
CASING DEPTH <u>865</u>			DRILL PIPE	TUBING	OTHER	
SLURRY WEIGHT			SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>yes</u>	
DISPLACEMENT <u>5</u>			DISPLACEMENT PSI <u>800</u>	MIX PSI <u>200</u>	RATE <u>4 bpm</u>	
REMARKS: <u>Held meeting. Hooked to casing. Established rate. Mixed + pumped 100# gel followed by 130 sk 60/40 cement plus 270 gal. Circulated cement. Flushed pump. Pumped plug to casing TD. Well held 800 PSI. Set float.</u>						

TRUCK #	DRIVER	TRUCK #	DRIVER
516	Ala Mar	Safety Meet	
368	Art McD	AKM	
675	Kei Det	KD	
558	Bre Man	BM	

HAT Drilling, Eric

*Alan Mader*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1030.00
5406	40	MILEAGE	368	160.00
5402	865	casing footage	368	
5407	min 3	ton miles	558	350.00
5502C	3	80 gal	675	270.00
1131	130	60/40 Cement		1423.50
118B	327#	gel		68.04
4402	1	2 1/2 plug		28.00
<i>PAID #1012 check</i>				
<i>Thanks</i>				
				SALES TAX <u>3628.57</u>
				ESTIMATED TOTAL <u>3663.71</u>

Flavin 3737

AUTHORIZATION *[Signature]* TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form





**CONSOLIDATED**  
Oil Well Services, LLC

256931

TICKET NUMBER 38830

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2/19/13		Mini-Farm #1	NW 23	12	20	LV
CUSTOMER Heavy Oil Treatment Solutions LLC			TRUCK #			
MAILING ADDRESS 1513 Mustang Dr			481	Driver Caskan	TRUCK #	DRIVER
CITY Baldwin City			6606	Gar Moo	✓	✓ Safety Meeting
STATE KS			510	Set Tuc	✓	
ZIP CODE 66006						

JOB TYPE surface HOLE SIZE 11" HOLE DEPTH 68' CASING SIZE & WEIGHT 7"  
 CASING DEPTH 68' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 8'  
 DISPLACEMENT 2.5 bbs DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped  
Class "A" cement w/ 2% gel, 2% Calcium, + 1/4 # Flo Seal per sk,  
cement to surface, displaced cement w/ 2.5 bbs fresh water, 8' left  
in casing, shot in casing.

HAT Drilling supplied H<sub>2</sub>O

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE		825.00
5406	42 mi	MILEAGE		108.00
5402	68'	casing footage		
5407	minimum	ton mileage		350.00
11045	35 sks	Class "A" cement		523.25
1102	64 #	Calcium Chloride		48.84
118B	66 #	Premium Gel		13.86
1107	9 #	Flo Seal		21.15
Paid check # 1008				
\$ 2770.81				
			7.3%	SALES TAX
				44.32
				ESTIMATED TOTAL
				1994.42

Revin 3737 AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34847  
Name: Heavy Oil Treatment Solutions, LLC  
Address 1: 1513 Mustang Drive  
Address 2: \_\_\_\_\_  
City: Baldwin City State: Kansas Zip: 66006 + \_\_\_\_\_  
Contact Person: Jim Mietchen  
Phone: ( 785 ) 594-7100  
CONTRACTOR: License # 33734  
Name: Hat Drilling Co.  
Wellsite Geologist: none  
Purchaser: NA

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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>2/19/13</u>	<u>3/7/13</u>	<u>3/7/13</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 103-21374-00-00

Spot Description: \_\_\_\_\_  
NE SE NE NW Sec. 23 Twp. 12 S. R. 20  East  West  
4,435 Feet from  North /  South Line of Section  
2,805 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW

County: Leavenworth

Lease Name: Mini-Farm Well #: 1

Field Name: Six Corners

Producing Formation: Squirrel

Elevation: Ground: 910 Kelly Bushing: \_\_\_\_\_

Total Depth: 872 Plug Back Total Depth: 865

Amount of Surface Pipe Set and Cemented at: 66.5 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: 1900 ppm Fluid volume: 20 bbls

Dewatering method used: Evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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.

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.

Signature: [Signature]  
Title: MANAGING DIRECTOR Date: 4/8/13

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: Heavy Oil Treatment Solutions, LLC Lease Name: Mini-Farm Well #: 1  
 Sec. 23 Twp. 12 S. R. 20  East  West County: Leavenworth

**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>squirrel</td> <td>765</td> <td>772</td> </tr> <tr> <td>squirrel</td> <td>808</td> <td>814</td> </tr> </table>	Name	Top	Datum	squirrel	765	772	squirrel	808	814
Name	Top	Datum								
squirrel	765	772								
squirrel	808	814								

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
surface	11"	7 "	20 #	66.5'	class A	35	66 # CaCl
							9 # flow seal
longstring	5 7/8"	2 7/8"	8000 #	865	60/40	130	327 # Gel

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				

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
	Not Perforated		

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

Date of First, Resumed Production, SWD or ENHR. **Not in production**

Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**CONSOLIDATED**  
Oil Well Services, LLC

# 1012

TICKET NUMBER 38881

LOCATION Ottawa

FOREMAN Alan Mader

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-13		Mini-Farm #1	NW 23	12	20	LV
CUSTOMER Heavy Oil Treatment Solutions						
MAILING ADDRESS 1513 Mustangs Dr.						
CITY Baldwin City		STATE KS	ZIP CODE 66006			
JOB TYPE <u>long string</u>			HOLE SIZE <u>5 1/8</u>	HOLE DEPTH <u>872</u>	CASING SIZE & WEIGHT <u>2 7/8</u>	
CASING DEPTH <u>865</u>			DRILL PIPE	TUBING	OTHER	
SLURRY WEIGHT			SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>yes</u>	
DISPLACEMENT <u>5</u>			DISPLACEMENT PSI <u>800</u>	MIX PSI <u>200</u>	RATE <u>4 bpm</u>	
REMARKS: <u>Held meeting. Hooked to casing. Established rate. Mixed + pumped 100# gel followed by 130 sk 60/40 cement plus 270 gal. Circulated cement. Flushed pump. Pumped plug to casing TD. Well held 800 PSI. Set float.</u>						

TRUCK #	DRIVER	TRUCK #	DRIVER
516	Ala Mar	Safety Meet	
368	Art McD	AKM	
675	Kei Det	KD	
558	Bre Man	BM	

HAT Drilling, Eric

*Alan Mader*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1030.00
5406	40	MILEAGE	368	160.00
5402	865	casing footage	368	
5407	min 3	ton miles	558	350.00
5502C	3	80 gal	675	270.00
1131	130	60/40 Cement		1428.50
1118B	327#	gel		68.04
4402	1	2 1/2 plug		28.00
PART # 1012 check Thanks				
				SALES TAX 3628.57
				ESTIMATED TOTAL 3663.71

Flavin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form





**CONSOLIDATED**  
Oil Well Services, LLC

256931

TICKET NUMBER 38830

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2/19/13		Mini-Farm #1	NW 23	12	20	LV
CUSTOMER Heavy Oil Treatment Solutions LLC			TRUCK #			
MAILING ADDRESS 1513 Mustang Dr			481	Driver Caskan	TRUCK #	DRIVER
CITY Baldwin City			6606	Gardner	✓ Safety Meeting	
STATE KS			510	Set Tuc	✓	
ZIP CODE 66006						

JOB TYPE surface HOLE SIZE 11" HOLE DEPTH 68' CASING SIZE & WEIGHT 7"  
 CASING DEPTH 68' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 8'  
 DISPLACEMENT 2.5 bbs DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped  
Class "A" cement w/ 2% gel, 2% Calcium, + 1/4 # Flo Seal per sk,  
cement to surface, displaced cement w/ 2.5 bbs fresh water, 8' left  
in casing, shot in casing.

HAT Drilling supplied H<sub>2</sub>O

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE		825.00
5406	42 mi	MILEAGE		108.00
5402	68'	casing footage		
5407	minimum	ton mileage		350.00
11045	35 sks	Class "A" cement		523.25
1102	64 #	Calcium Chloride		48.84
118B	66 #	Premium Gel		13.86
1107	9 #	Flo Seal		21.15
Paid check # 1008				
\$ 2770.81				
		7.3%	SALES TAX	44.32
			ESTIMATED TOTAL	1994.42

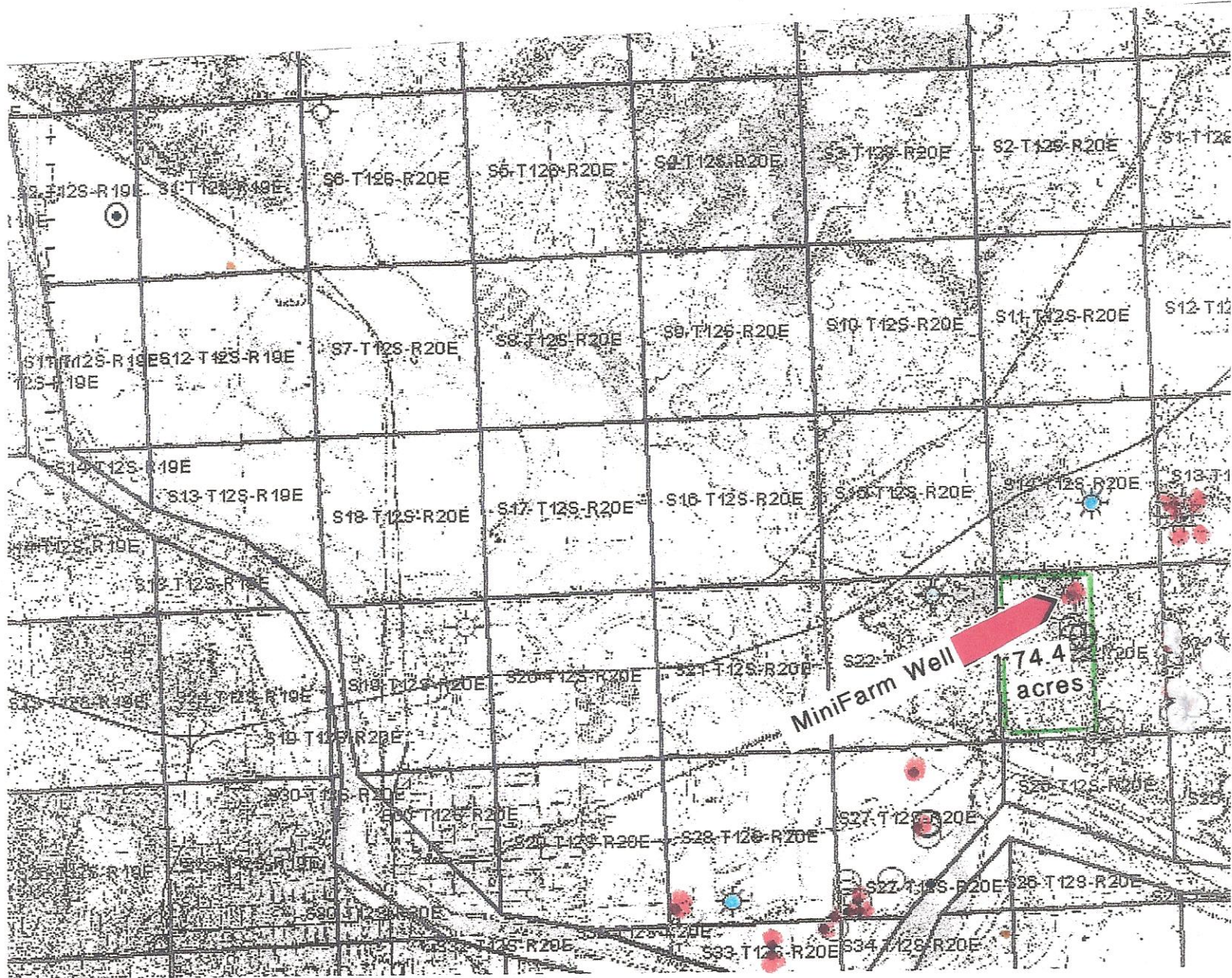
completed

Revin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form





New Oil Wells ●

Gas Wells ●



## FOR SALE

Mini-Farm discovery well located in Leavenworth  
County, Kansas

Acreage: 74.4 acres

Potential Drilling Sites: 31

Two (2) Oil Zones: 1st Squirrel & 2nd Squirrel

Oil Zone Depths: 750'-850'

Recent Nearby Oil & Gas Discoveries: 22 Wells

### Sale Includes:

- \* Discovery well drilled, cased, logged and ready for completion
- \* Two (2) New 100 Barrel Fiberglass Stock Tanks
- \* Catwalk & Stairs
- \* Two (2) additional drill sites cleared and ready to drill
- \* Graveled entrance and circle driveway
- \* Privacy gates
- \* Additional leases available
- \* Concrete Storm/Storage Shelter

Sale Price: \$ 70,000.00



Suggested Development Plan for Mini Farm Lease  
Including 3 Wells, Gas Separator & Water Disposal Well

1. Lease Purchase	\$ 70,000
2. Complete Tank Battery ( gunbarrel & water tank )	12,000
3. Drill & Complete Water Disposal well	35,000
4. Install Electricity ( Westar Energy )	6,000
5. Drill Wells # 2 & # 3	40,000
6. Install Gas Separator	5,000
7. Complete Wells # 1, # 2 & # 3	60,000
8. Miscellaneous Pipe, fittings & expenses	12,000
Total Estimated Cost	\$ 240,000

Method of Payment

1. Operator can establish a line of credit with the contractors and oilfield companies.
2. Set-up a " MiniFarm lease account " where Heavy Oil Treatment Solutions, LLC will coordinate the lease development and pay all invoices from said account.

Additional Wells

After initial lease set-up has been completed, including tank battery, gas separator and water disposal well, each additional well drilled and completed is an estimated \$ 40,000.

Total lease Working Interest Purchased: 100 %; net revenue interest 68.75 %.

Lease Acreage: 77.40 Acres

Potential Drilling Locations: 31

Disposal Well ( Estimated Cost )  
Sunrise-Dennis 620-431-6500

	<u>cheap version</u>	<u>expensive version</u>
Drilling-Evans Energy	\$ 9,700	9,700
Surface Pipe 8 5/8" @ \$ 14.88/ft.@ 60'	893*	893*
Surface Hole size 11"		
Cement Surface ( Consolidated ) 50-50 posmix	2,300*	-
Cement Surface ( Consolidated ) 60-40	-----	2,400*
4 1/2" longstring 1080' @ \$ 3.79/ft-limited service	4,093*	-----
4 1/2" longstring 1089' @ \$ 5.00/ft	-----	5,445*
Cement longstring 50-50 posmix ( Consolidated )	4,287*	-----
Cement longstring 60-40 ( Consolidated )	-----	4,585*
2 7/8" limited service 1080' @ \$ 3.79/ft	4,010*	-----
2 7/8" tight seal 1080' @ 7.36/ft		7,787*
Log & perforate 17' @ 2 shots/ft ( 36 shots .45 )	3,500	3,500
2 7/8" seal tight packer	1,150*	1,150*
4 1/2 " pipe clamp	62*	62*
(4) 4 1/2" centralizers @ \$ 30.00 each	124*	124*
4 1/2" float shoe	169*	169*
4 1/2" brass swedge	222*	222*
2" brass ball valve	68*	68*
	\$ 30,578	36,105
Sales Tax	2,232	2,636
Total \$	32,810	38,741

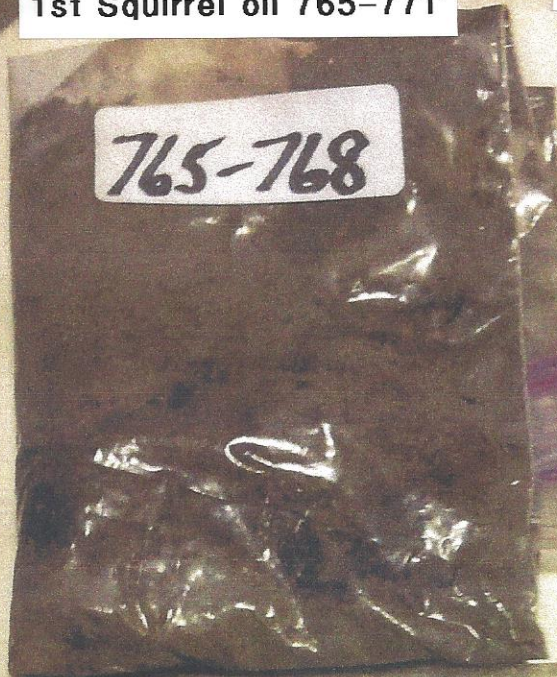
\* plus sales tax @ 7.3 % ( Leavenworth County Rate )

Does not include pump, line & miscellaneous fittings

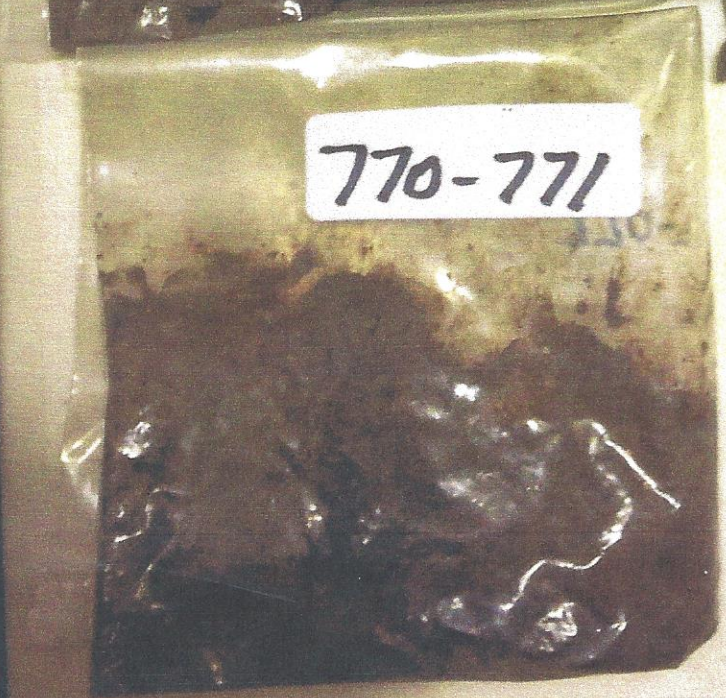
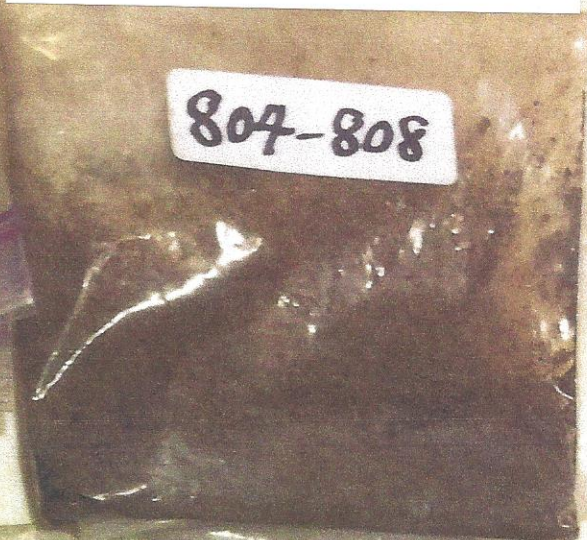


1st Squirrel oil 765-771'

Mini-Farm Well # 1



2nd Squirrel samples 804-812'





Five well shallow Development ( 68.75 % Net Revenue Interest )

Estimated Production ( 5 wells )

barrels/well/day	<u>daily</u>	<u>monthly</u>
	gross production ( 5 wells )	gross production
1	5	150
2	10	300
3	15	450
4	20	600
5	25	750
10	50	1500

Estimated Gross Income ( 5 Wells )

<u>Monthly</u> <u>Production</u>	<u>Price</u>				
	<u>80.00</u>	<u>85.00</u>	<u>90.00</u>	<u>95.00</u>	<u>100.00</u>
150 bbl	12,000	12,750	13,500	14,250	15,000
300 bbl	24,000	25,500	27,000	28,500	30,000
450 bbl	36,000	38,250	40,500	42,750	45,000
600 bbl	48,000	51,000	54,000	57,000	60,000
750 bbl	60,000	63,750	67,500	71,250	75,000
1500 bbl	120,000	127,000	135,000	142,500	150,000

150 bbl/Month ( 5 wells producing 1 barrel each/day )

<u>Price/barrel</u>	<u>Total Lease Income</u>		<u>68.75 % nri</u>
	<u>monthly gross income</u>	<u>annual gross income</u>	<u>annual gross income</u>
80.00	12,000	144,000	99,000
85.00	12,750	153,000	105,187
90.00	13,500	162,000	111,375
95.00	14,250	171,000	117,562
100.00	15,000	180,000	123,750



300 bbl/Month ( 5 wells producing 2 barrels each per day )

<u>Price/barrel</u>	<u>Total Lease Income</u>		<u>68.75 % nri</u>
	<u>monthly gross income</u>	<u>annual gross income</u>	<u>annual gross income</u>
80.00	24,000	288,000	198,000
85.00	25,500	306,000	210,375
90.00	27,000	324,000	222,750
95.00	28,500	342,000	235,125
100.00	30,000	360,000	247,500

450 barrels/Month ( 5 wells producing 3 barrels each per day )

<u>Price/barrel</u>	<u>Total Lease Income</u>		<u>68.75 % nri</u>
	<u>monthly gross income</u>	<u>annual gross income</u>	<u>annual gross income</u>
80.00	36,000	432,000	297,000
85.00	38,250	459,000	315,562
90.00	40,500	486,000	334,125
95.00	42,750	513,000	352,687
100.00	45,000	540,000	371,250

600 barrels/Month ( 5 wells producing 4 barrels each per day )

<u>Price/barrel</u>	<u>Total Lease Income</u>		<u>68.75 % nri</u>
	<u>monthly gross income</u>	<u>annual gross income</u>	<u>annual gross income</u>
80.00	48,000	576,000	396,000
85.00	51,000	612,000	420,750
90.00	54,000	648,000	445,500
100.00	60,000	720,000	495,000

750 barrels/Month ( 5 wells producing 5 barrels each per day )

<u>Price/barrel</u>	<u>Total Lease Income</u>		<u>68.75 % nri</u>
	<u>monthly gross income</u>	<u>annual gross income</u>	<u>annual gross income</u>
80.00	60,000	720,000	495,000
85.00	63,750	765,000	525,937
90.00	67,500	810,000	556,875
95.00	71,250	855,500	588,156
100.00	75,000	900,000	618,750

1500 bbl/Month ( 5 wells producing 10 barrels each per day )

<u>Price/barrel</u>	<u>Monthly gross income</u>	<u>annual gross income</u>	<u>68.75 % nri</u> <u>annual gross income</u>
80.00	120,000	1,440,000	990,000
85.00	127,500	1,530,000	1,075,750
90.00	135,000	1,620,000	1,113,750
95.00	142,500	1,710,000	1,175,625
100.00	150,000	1,800,000	1,237,500

*Lease Interest : 68.75 % Net Revenue Interest ( 100 % Working Interest )*

*68.75 % Gross Income Estimates are based upon owning 100% of the working interest .*

*Gross Income Estimates do not reflect increased oil production by means of secondary recovery applications as water flooding, natural gas floods, etc. or the natural decline curve.*