

Kansas Corporation Commission Oil & Gas Conservation Division

1132600

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
	Amount of Surface Pipe Set and Cemented at: Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used? Yes No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Elvid Management Plan
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content:ppm Fluid volume:bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Dewatering method used:
Conv. to GSW	Dewatering method used.
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
GSW Permit #:	County: Permit #:
Spud Date or Pate Reached TD Completion Date or Recompletion Date Recompletion Date	

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 Approved by: Date:					

Side Two



Operator Name:			Lease	Name: _			Well #:	
Sec Twp	S. R	East West	Count	y:				
time tool open and clo	sed, flowing and shu es if gas to surface te	d base of formations per t-in pressures, whether s st, along with final chart(well site report.	shut-in pre	ssure read	ched static level,	hydrostatic press	sures, bottom h	ole temperature, fluid
Drill Stem Tests Taken (Attach Additional S		☐ Yes ☐ No			og Formation	n (Top), Depth an	d Datum	Sample
Samples Sent to Geol	logical Survey	Yes No		Nam	е		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy		Yes No Yes No Yes No						
List All E. Logs Run:								
		CASING Report all strings set-	RECORD	☐ Ne		on etc		
Purpose of String	Size Hole	Size Casing	We	eight	Setting	Type of	# Sacks	Type and Percent
	Drilled	Set (In O.D.)	Lbs	. / Ft.	Depth	Cement	Used	Additives
		ADDITIONAL	L CEMENT	ING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cement	# Sack	s Used		Type and F	Percent Additives	
Perforate Protect Casing Plug Back TD Plug Off Zone								
01 + 5 5 +	PERFORATIO	DN RECORD - Bridge Plug	as Set/Type	<u> </u>	Acid, Frac	cture, Shot, Cement	Squeeze Record	1
Shots Per Foot		ootage of Each Interval Per				mount and Kind of Ma		Depth
TUBING RECORD:	Size:	Set At:	Packer	At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or EN	HR. Producing Met	hod:	ing	Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil I	Bbls. Gas	Mcf	Wate	er Bl	bls. (Gas-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:		METHOD O	F COMPLE	ETION:		PRODUCTIO	N INTERVAL:
Vented Sold	Used on Lease	Open Hole	Perf.	Dually		nmingled mit ACO-4)		
(If vented, Sul	omit ACO-18.)	Other (Specify)		(Jasiiii)	(Gubi			



1012

TICKET NUMBER 38881 LOCATION Offawa FOREMAN Alan Mader

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

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELI	NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-13		Mini-F	arm #1	NW 23	12	20	LV
CUSTOMER	NI Too 4	1 (TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	SS IVEGT	ment 5	DIUT, ONS	516	AlaMad	Sc. Fotus	Meet
1513	Musta	no Do		368	Hal Ni D	ARM	111661
CITY	2114319	STATE	ZIP CODE	675	Kei Det	KD	
Baldwin	a C'tu	165	66006	558	Bice Man	BN	
JOB TYPE 100		HOLE SIZE	1 1/4	E DEPTH 872	CASING SIZE & W	EIGHT 2	1/8
CASING DEPTH	0,2	DRILL PIPE		ING	OXONO GILL GAV	OTHER	
SLURRY WEIGH		SLURRY VOL		ΓER gal/sk	CEMENT LEFT in		5
DISPLACEMENT	di-	DISPLACEMEN	0.0	PSI 200	RATE 46	on	
REMARKS: He	Id meet	. /	Ked to c	asing, Es;	tablished	& rate	2 .
MIXED	+ Pum	Ded 11	20 # gel	followed	by 130	> 154 6	0/40
Lemen	, , , ,	5 270	ael. Ci	rculated	cement	Flus	hed
PUMD.	Pumped	- plus	to casi	us TD. U	rell held	l 800	D PSI
15e. +.	float.	, ,					
					1.00		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			THE THE				low
				<u> </u>	1 . 4	Mad	
HAT	Drilling	Fric			1/0	apl I	
11/1	10111115		part of the control o		1-1-10		
11/11			The state of the		111		
ACCOUNT	QUANITY	or UNITS	DESCRI	PTION of SERVICES or PI	RODUCT	UNIT PRICE	TOTAL
ACCOUNT CODE		or UNITS		PTION of SERVICES or PI	36.8	UNIT PRICE	
SHO!	QUANITY	or UNITS	DESCRI PUMP CHARGE MILEAGE	PTION of SERVICES or PI	368	UNIT PRICE	1030.00
5401 5406	QUANITY	The Section	PUMP CHARGE MILEAGE	en de la companya de	368 368	UNIT PRICE	
5406 5402	QUANITY	The Section	PUMP CHARGE MILEAGE Casing	en de la companya de	368 368 368	UNIT PRICE	1030.00
5401 5406 5402 5407	QUANITY	The Section	PUMP CHARGE MILEAGE Casing Tun	tootage	368 368 368 558	UNIT PRICE	1030.00
5406 5402	QUANITY	The Section	PUMP CHARGE MILEAGE Casing	tootage	368 368 368	UNIT PRICE	1030.00 160.00 350.00
5401 5406 5402 5407	QUANITY	The Section	PUMP CHARGE MILEAGE Casing Tun	tootage liles	368 368 368 558	UNIT PRICE	1030.00 160.00 350.00
5401 5406 5402 5407 5502C	QUANITY	13	PUMP CHARGE MILEAGE Casing ton N 80 U41	tootage liles	368 368 368 558	UNIT PRICE	1030.00 160.00 350.00
5401 5406 5402 5407 5502C	QUANITY All 81 Mill 130	13	PUMP CHARGE MILEAGE Casing Ton N 80 U41	tootage liles	368 368 368 558	UNIT PRICE	1030.00 160.00 350.00
5401 5406 5402 5407 5502C	QUANITY All 81 Mill 130	13	PUMP CHARGE MILEAGE Casing ton N 80 U41	tootage liles	368 368 368 558		1030.00 160.00 350.00
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5401 5406 5402 5407 5502C	QUANITY All 81 Mill 130	13	PUMP CHARGE MILEAGE Casing Ton N 80 U41	tootage 1; les Cement	368 368 368 558		1030.00 160.00 350.00
5401 5406 5402 5407 5502C	QUANITY All 81 Mill 130	13	PUMP CHARGE MILEAGE Casing Ton N 80 U41	tootage liles	368 368 368 558		1030.00 160.00 350.00
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5401 5406 5402 5407 5502C	QUANITY All 81 Mill 130	13	PUMP CHARGE MILEAGE Casing Ton N 80 U41	tootage 1; les Cement	368 368 368 558	SALES TAX	1030.00 160.00 350.00
5401 5406 5402 5407 5502C	QUANITY All 81 Mill 130	13	PUMP CHARGE MILEAGE Casing Ton N 80 U41	tootage 1; les Cement	368 368 368 558		1030.00 160.00 350.00



256931

LOCATION Ottawa, KS
FOREMAN Casey Kennedy

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

FIELD TICKET & TREATMENT REPORT

5.4797	0110701150 11	I INCLEASE OF THE			1		
DATE	CUSTOMER#	WELL NAME & NUM	MBER	SECTION	TOWNSHIP	RANGE	COUNTY
2/19/13		Mini-Farm #1		NW 23	12	20	LV
CUSTOMER	017	1011		THE REAL PROPERTY.	THE PARTY OF THE P	July 1 1/2 1/2 1/2	
Heavy	Vil Treat	ment Solutions 4	<u>c</u>	TRUCK#	DRIVER .	TRUCK#	DRIVER
MAILING ADDRE	ESS			481	Casken	Satisly	-
1513	Mustang	Dr		6106	Garlon	1 salery	leeking
CITY		STATE ZIP CODE	7	510	Set Tuc		
Baldwin	City	KS 66006		010	100		
JOB TYPE SU		HOLE SIZE / 1	HOLE DEPTH	168	CASING SIZE & W	VEIGHT 7 "	
CASING DEPTH	(08)	DRILL PIPE	_TUBING			OTHER	
SLURRY WEIGH		SLURRY VOL	WATER gal/s	k	CEMENT LEFT in	CASING &	
		DISPLACEMENT PSI	MIX PSI		RATE 4,56	Olla	
REMARKS: 10	ld satisfy	neeting establishe	deireula	Lion, mix	ed + own	roed	Sec
Class "A	cerne	ut w 220 all.	270 Ca		4 # Flose		sk
cement 1	o surface	, displaced cen	rent 6	w/2.5	66s fresh	water, 8	2 loft
in casing	, short on	casing.					
	,	\cup					
			-		1		
. 1 .					1))		
HAT DO	Thing su	polical 400			1-14		
	7 1			E and		/	

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PROD	UNIT PRICE	TOTAL	
54015	/	PUMP CHARGE			825.00
540 le	42 mi	MILEAGE			168,00
5402	Le8 1	casing footage			
5407	mnimum	ton mileage			350.00
•			*		
11045	35 sts	Class "A" coment			523.25
1102	ley #	Calcium Chloride	1844 B 1 1 1 1		48.84
1118B	66 H	Premium Gel	35		13.86
1107	9 #	7/o Seal		**	21.15
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	+				
	17	rid Chek 4 1008	ik	P rom	
	· · · · · · · · · · · · · · · · · · ·	\$2770.81	V 13.5	FB. Leg.	
		40110.01	- 1		
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7			7 ~		
avin 3737	7		7,3%	SALES TAX	44,32
TANDET I.T.I.	1111 1 MANA	1 1		ESTIMATED TOTAL	1994.42
UTHORIZTION_	AllW MINVER	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

WELE INCION	103 24274 00 00
OPERATOR: License #34847	API No. 15
Name: Heavy Oil Treatment Solutions, LLC	Spot Description:
Address 1: 1513 Mustang Drive	NE_SE_NE_NW Sec. 23 Twp. 12 S. R. 20 Fast West
Address 2:	4,435 Feet from North / South Line of Section
City: Baldwin City State: Kansas Zip: 66006 +	2,805 Feet from 🗹 East / 🗌 West Line of Section
Contact Person:Jim Mietchen	Footages Calculated from Nearest Outside Section Corner:
Phone: (785) 594-7100	□NE □NW ✓SE □SW
CONTRACTOR: License #_33734	County:_Leavenworth
Name: Hat Drilling Co.	Lease Name:Wini-FarmWell #:
Wellsite Geologist: none	Field Name: Six Corners
Purchaser: NA	Producing Formation: Squirrel
	Elevation: Ground: 910 Kelly Bushing:
Designate Type of Completion:	Total Depth: 872 Plug Back Total Depth: 865
✓ New Well Re-Entry Workover	and the second s
✓ Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: 66.5
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ✓ No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set:Feet
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	feet depth to:w/sx cmt.
450 A. J. Spark (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 1957 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955)	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 1900 ppm Fluid volume: 20 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD ☐ Conv. to GSW	Dewatering method used: Evaporation
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	
ENHR Permit #:	
GSW Permit #:	County: Permit #:
2/19/13 3/7/13 3/7/13	*
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	
Kansas 67202, within 120 days of the spud date, recompletion, workover or or of side two of this form will be held confidential for a period of 12 months if rec	
AFFIDAVIT	KCC Office Use ONLY
I am the affiant and I hereby certify that all requirements of the statutes, rules and lations promulgated to regulate the oil and gas industry have been fully complied	
and the statements herein are complete and correct to the best of my knowledge	ge. Date:
levet MITTE	Confidential Release Date: Wireline Log Received
	Wildling Log Neceived

Geologist Report Received

ALT I II III Approved by:

Date:

UIC Distribution

A7000		nt Solutions, LLC				_ Well #:		
Sec. 23 Twp.12	s. R. <u>20</u>	✓ East West	County: Le	avenworth				-
time tool open and clos	sed, flowing and sh s if gas to surface t	nd base of formations pout-in pressures, whether test, along with final char al well site report.	shut-in pressure r	eached static leve	el, hydrostatic pres	sures, bottom	hole temperature	e, fluid
Drill Stem Tests Taken (Attach Additional SI	heets)	☐ Yes ✓ No]Log Formati	on (Top), Depth a	nd Datum	Sample	;
Samples Sent to Geolo	•	Yes ✓ No		ame		Top	Datum 772	
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)		Yes No Yes No Yes No	squ squ			765 808	814	
List All E. Logs Run:								
			G RECORD	New Used	etion 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 Pero	
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	
		ADDITION	AL CEMENTING / S	QUEEZE RECORI	D			
Purpose: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and	Percent Additive	S	
Protect Casing Plug Back TD Plug Off Zone				ι				18
Shots Per Foot		TION RECORD - Bridge Ply Footage of Each Interval P			acture, Shot, Cemer Amount and Kind of M			pth
	Not Perforated				Annual Comments of the Comment			
						*		<u> </u>
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No)		
Date of First, Resumed F Not in production	Production, SWD or E	NHR. Producing Mo	ethod:	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf V	Vater	Bbls.	Gas-Oil Ratio	Grav	ity
DISPOSITIO Vented Sold (If vented, Subr	Used on Lease	Open Hole		ally Comp.	ommingled	PRODUCT	ON INTERVAL:	



1012

TICKET NUMBER 38881

LOCATION Offawa

FOREMAN Alga Mader

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

FIELD TICKET & TREATMENT REPORT

DATE	CUSTOMER#	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-13	Mir	the state of the s	NW 23	12	20	LV
USTOMER	er grand of the and assenti-				esceptiva de la Cal	DD1/55
1eavy C IAILING ADDRE		nt Solutions	TRUCK#	DRIVER	TRUCK#	DRIVER
	1 1 1 1	\mathcal{D}_{\bullet}	316	HIGMAR	Safety.	Meet
1513	Mustans	ZIP CODE	13-	MAINICU	NVIII	
Baller	1 C: +4 K		675	Re, UCT	RO	
Jalaui			372	Wellan	TIQUE 27	18
	STring HOLES			CASING SIZE & W	OTHER	0
ASING DEPTH			gal/sk	CEMENT LEFT in		5
URRY WEIGH			200	6.81	om	
MARKS: He	ld neeting.	Hooked to ca		fablished	2 rate	> _
MIVON	+ Pumped	100 # gel f	21/21/20	by 1.30	> sk 6	0/40
emen	1 2/1/ 2	To gel Cir	culated	cement	Flus	hed
200000	Pumped p	lus to cas in	- N	rell held	0 800	P57
501	float.	3 10 243, 11) , 0. 10	CH VIEN	~ ~~~	
UL1 -	1.1041.				· · · · · · · · · · · · · · · · · · ·	
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					Mad	
HAT	Dalling Er			110	4/5	
1///	Orithis Fil			11/00	42	
			AND TRAINING OF A CO.	V		T
ACCOUNT CODE	QUANITY or UNIT	S DESCRIPTI	ION of SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
	QUANITY or UNIT	S DESCRIPTION OF THE PUMP CHARGE	ION of SERVICES or PR	368	UNIT PRICE	
	QUANITY or UNIT		ION of SERVICES or PR		UNIT PRICE	
5401	1	PUMP CHARGE MILEAGE	ion of services of pr	368 368	UNIT PRICE	1030.00
5401 5406	1	PUMP CHARGE MILEAGE	Constant Con	368	UNIT PRICE	1030.00
5401 5406	1	PUMP CHARGE MILEAGE	footage	368 368 368	UNIT PRICE	1030.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Ton Mi	footage	368 368 368 558	UNIT PRICE	160.00 160.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Ton Mi	footage	368 368 368 558	UNIT PRICE	1030.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Tun Mi	footage 103	368 368 368 558	UNIT PRICE	1630.00 160.00
5401 5406 5402 5407 5502C	1	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage les	368 368 368 558	UNIT PRICE	1030.00 160.00 3500
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE Casing Tun Mi	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 350.0
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		160.00 160.00 350.0 142850 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		160.00 160.00 350.0 142850 68.06
CODE 5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
CODE 5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558	SALES TAX	1030.00 160.00 3500 3700 1438450 68.04



256931

LOCATION Ottowa, KS
FOREMAN Casey Keywody

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

FIELD TICKET & TREATMENT REPORT

DATE	CUCTOMED#	INCLE NAME O AUTO	IDED	DECTION	7011111111		
DATE	CUSTOMER#	WELL NAME & NUM	MBEK	SECTION	TOWNSHIP	RANGE	COUNTY
2/19/13		Mini-Farm #1		NW 23	12	20	LV
CUSTOMER	01 T. 1	LCIL			1. 医神经神经	State of the state of	
Heavy	Oil Treat	ment Solutions 4	<u>-</u>	TRUCK#	DRIVER .	TRUCK#	DRIVER
MAILING ADDRE				481	Casken	Satisly	Un-Vi
1513	Mustang	Dr	·	ColoCo	Carllon	1	eeng-
CITY		STATE ZIP CODE		510	Set Tuc	1/	
Baldwin	City	KS 66006			100		
JOB TYPE SU		HOLE SIZE / (HOLE DEPTI	468	CASING SIZE & W	VEIGHT 7 "	1
CASING DEPTH	(08)	DRILL PIPE	_TUBING			OTHER	
SLURRY WEIGH		SLURRY VOL		sk	CEMENT LEFT in	CASING &	
DISPLACEMENT	2.5605	DISPLACEMENT PSI	MIX PSI		RATE 4,56	eu_	
REMARKS: GO	ld sately	meeting, establishe	d circula	Lion, mix	ed town	red	Sec
Class "A"	cerne	ut wi 220 gel,	270 Ca	Kium +	4# F656	al per	sk.
cement +	o surface	, displaced cen	rent 6	w/2.5	1 1 / / 1	water, 8	? left
in casing	, ohot on	casing.					
		<u> </u>					55 FF
A							
						1	
HAT DO	Thing su	pplied 400	-		1-)4		
				Annual Control of the		7	

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PROD	UNIT PRICE	TOTAL	
54015	/	PUMP CHARGE		825.00	
540 le	42 mi	MILEAGE			165,00
5402	LO8 1	casing footage			
5407	minimum	ton mileage			350.00
			à		
11045	35 sts	Class "A" coment			523.25
1102	le4 #	Calcium Chloride			48.84
1118B	66 H	Premium Gel	3		13.86
1107	9 #	Premium Gel Flo Seal		. *	21.15
~	+7	lidebet H 1002	*		
		\$ 2770 01	y Table		
	The same of the sa	40110.81	*		
avin 3737	1		7,3%	SALES TAX	44,32
	Jun 1 MAR	1		ESTIMATED TOTAL	1994.42

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

WELE INCION	103 24274 00 00
OPERATOR: License #34847	API No. 15
Name: Heavy Oil Treatment Solutions, LLC	Spot Description:
Address 1: 1513 Mustang Drive	NE_SE_NE_NW Sec. 23 Twp. 12 S. R. 20 Fast West
Address 2:	4,435 Feet from North / South Line of Section
City: Baldwin City State: Kansas Zip: 66006 +	2,805 Feet from 🗹 East / 🗌 West Line of Section
Contact Person:Jim Mietchen	Footages Calculated from Nearest Outside Section Corner:
Phone: (785) 594-7100	□NE □NW ✓SE □SW
CONTRACTOR: License #_33734	County:_Leavenworth
Name: Hat Drilling Co.	Lease Name:Wini-FarmWell #:
Wellsite Geologist: none	Field Name: Six Corners
Purchaser: NA	Producing Formation: Squirrel
	Elevation: Ground: 910 Kelly Bushing:
Designate Type of Completion:	Total Depth: 872 Plug Back Total Depth: 865
✓ New Well Re-Entry Workover	and the second s
✓ Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: 66.5
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ✓ No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set:Feet
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	feet depth to:w/sx cmt.
450 A. J. Spark (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 1957 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955)	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 1900 ppm Fluid volume: 20 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD ☐ Conv. to GSW	Dewatering method used: Evaporation
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	
ENHR Permit #:	
GSW Permit #:	County: Permit #:
2/19/13 3/7/13 3/7/13	*
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	
Kansas 67202, within 120 days of the spud date, recompletion, workover or or of side two of this form will be held confidential for a period of 12 months if rec	
AFFIDAVIT	KCC Office Use ONLY
I am the affiant and I hereby certify that all requirements of the statutes, rules and lations promulgated to regulate the oil and gas industry have been fully complied	
and the statements herein are complete and correct to the best of my knowledge	ge. Date:
levet MITTE	Confidential Release Date: Wireline Log Received
	Wildling Log Neceived

Geologist Report Received

ALT I II III Approved by:

Date:

UIC Distribution

A7000		nt Solutions, LLC				_ Well #:		
Sec. 23 Twp.12	s. R. <u>20</u>	✓ East West	County: Le	avenworth				-
time tool open and clos	sed, flowing and sh s if gas to surface t	nd base of formations pout-in pressures, whether test, along with final char al well site report.	shut-in pressure r	eached static leve	el, hydrostatic pres	sures, bottom	hole temperature	e, fluid
Drill Stem Tests Taken (Attach Additional SI	heets)	☐ Yes ✓ No]Log Formati	on (Top), Depth a	nd Datum	Sample	;
Samples Sent to Geolo	•	Yes ✓ No		ame		Top	Datum 772	
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)		Yes No Yes No Yes No	squ squ			765 808	814	
List All E. Logs Run:								
			G RECORD	New Used	etion 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 Pero	
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	
		ADDITION	AL CEMENTING / S	QUEEZE RECORI	D			
Purpose: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and	Percent Additive	S	
Protect Casing Plug Back TD Plug Off Zone				ι				18
Shots Per Foot		TION RECORD - Bridge Ply Footage of Each Interval P			acture, Shot, Cemer Amount and Kind of M			pth
	Not Perforated				Annual Comments of the Comment			
			*					
						*		<u> </u>
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No)		
Date of First, Resumed F Not in production	Production, SWD or E	NHR. Producing Mo	ethod:	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf V	Vater	Bbls.	Gas-Oil Ratio	Grav	ity
DISPOSITIO Vented Sold (If vented, Subr	Used on Lease	Open Hole		ally Comp.	ommingled	PRODUCT	ON INTERVAL:	



1012

TICKET NUMBER 38881

LOCATION Offawa

FOREMAN Alga Mader

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

FIELD TICKET & TREATMENT REPORT

DATE	CUSTOMER#	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-13	Mir	the state of the s	NW 23	12	20	LV
USTOMER	er grand of the and assenti-				esceptiva de la Cal	DD1/55
1eavy C IAILING ADDRE		nt Solutions	TRUCK#	DRIVER	TRUCK#	DRIVER
	1 1 1 1	\mathcal{D}_{\bullet}	316	HIGMAR	Safety.	Meet
1513	Mustans	ZIP CODE	13-	MAINICU	NVIII	
Baller	1 C: +4 K		675	Re, UCT	RO	
Jalaui			372	Wellan	TIQUE 27	18
	STring HOLES			CASING SIZE & W	OTHER	0
ASING DEPTH			gal/sk	CEMENT LEFT in		5
URRY WEIGH			200	6.81	om	
MARKS: He	ld neeting.	Hooked to ca		fablished	2 rate	> _
MIVON	+ Pumped	100 # gel f	21/21/20	by 1.30	> sk 6	0/40
emen	1 2/1/ 2	To gel Cir	culated	cement	Flus	hed
200000	Pumped p	lus to cas in	- N	rell held	0 800	P57
501	float.	3 10 243, 11) , 0. 10	CH VIEN	~ ~~~	
UL1 -	1.1041.				· · · · · · · · · · · · · · · · · · ·	
					/	Jan 1
					Mad	
HAT	Dalling Er			110	4/5	
1///	Orithis Fil			11)00	42	
			AND TRAINING OF A CO.	V		T
ACCOUNT CODE	QUANITY or UNIT	S DESCRIPTI	ION of SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
	QUANITY or UNIT	S DESCRIPTION OF THE PUMP CHARGE	ION of SERVICES or PR	368	UNIT PRICE	
	QUANITY or UNIT		ION of SERVICES or PR		UNIT PRICE	
5401	1	PUMP CHARGE MILEAGE	ion of services of pr	368 368	UNIT PRICE	1030.00
5401 5406	1	PUMP CHARGE MILEAGE	Constant Con	368	UNIT PRICE	1030.00
5401 5406	1	PUMP CHARGE MILEAGE	footage	368 368 368	UNIT PRICE	1030.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Ton Mi	footage	368 368 368 558	UNIT PRICE	160.00 160.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Ton Mi	footage	368 368 368 558	UNIT PRICE	1030.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Tun Mi	footage 103	368 368 368 558	UNIT PRICE	1630.00 160.00
5401 5406 5402 5407 5502C	1	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage les	368 368 368 558	UNIT PRICE	1030.00 160.00 3500
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE Casing Tun Mi	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 350.0
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		160.00 160.00 350.0 142850 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		160.00 160.00 350.0 142850 68.06
CODE 5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
CODE 5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558	SALES TAX	1030.00 160.00 3500 3700 1438450 68.04



256931

LOCATION Ottowa, KS
FOREMAN Casey Keywody

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

FIELD TICKET & TREATMENT REPORT

DATE	CUCTOMED#	INCLE NAME O AUTO	IDED	DECTION	7011111111		
DATE	CUSTOMER#	WELL NAME & NUM	MBEK	SECTION	TOWNSHIP	RANGE	COUNTY
2/19/13		Mini-Farm #1		NW 23	12	20	LV
CUSTOMER	01 T. 1	LCIL			1. 医神经神经	State of the state of	
Heavy	Oil Treat	ment Solutions 4	<u>-</u>	TRUCK#	DRIVER .	TRUCK#	DRIVER
MAILING ADDRE				481	Casken	Satisly	Un-Vi
1513	Mustang	Dr	·	ColoCo	Carllon	1	eeng-
CITY		STATE ZIP CODE		510	Set Tuc	1/	
Baldwin	City	KS 66006			100		
JOB TYPE SU		HOLE SIZE / (HOLE DEPTI	468	CASING SIZE & W	VEIGHT 7 "	1
CASING DEPTH	(08)	DRILL PIPE	_TUBING			OTHER	
SLURRY WEIGH		SLURRY VOL		sk	CEMENT LEFT in	CASING &	
DISPLACEMENT	2.5605	DISPLACEMENT PSI	MIX PSI		RATE 4,56	eu_	
REMARKS: GO	ld sately	meeting, establishe	d circula	Lion, mix	ed town	red	Sec
Class "A"	cerne	ut wi 220 gel,	270 Ca	Kium +	4# F656	al per	sk.
cement +	o surface	, displaced cen	rent 6	w/2.5	1 1 / / 1	water, 8	? left
in casing	, ohot on	casing.					
		<u> </u>					55 FF
A							
						1	
HAT DO	Thing su	pplied 400	-		1-)4		
				Annual Control of the		7	

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PROD	UCT	UNIT PRICE	TOTAL
54015	/	PUMP CHARGE			825.00
540 le	42 mi	MILEAGE			165,00
5402	LO8 1	casing footage			
5407	minimum	ton mileage			350.00
			à		
11045	35 sts	Class "A" coment			523.25
1102	le4 #	Calcium Chloride			48.84
1118B	66 H	Premium Gel	3		13.86
1107	9 #	Premium Gel Flo Seal		. *	21.15
~	+7	lidebet H 1002	*		
		\$ 2770 01	y Table		
	and the state of t	40110.81	*		
avin 3737	1		7,3%	SALES TAX	44,32
	Jun 1 MAR	1		ESTIMATED TOTAL	1994.42

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

WELE INCION	103 24274 00 00
OPERATOR: License #34847	API No. 15
Name: Heavy Oil Treatment Solutions, LLC	Spot Description:
Address 1: 1513 Mustang Drive	NE_SE_NE_NW Sec. 23 Twp. 12 S. R. 20 Fast West
Address 2:	4,435 Feet from North / South Line of Section
City: Baldwin City State: Kansas Zip: 66006 +	2,805 Feet from 🗹 East / 🗌 West Line of Section
Contact Person:Jim Mietchen	Footages Calculated from Nearest Outside Section Corner:
Phone: (785) 594-7100	□NE □NW ✓SE □SW
CONTRACTOR: License #_33734	County:_Leavenworth
Name: Hat Drilling Co.	Lease Name:Wini-FarmWell #:
Wellsite Geologist: none	Field Name: Six Corners
Purchaser: NA	Producing Formation: Squirrel
	Elevation: Ground: 910 Kelly Bushing:
Designate Type of Completion:	Total Depth: 872 Plug Back Total Depth: 865
✓ New Well Re-Entry Workover	and the second s
✓ Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: 66.5
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ✓ No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set:Feet
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	feet depth to:w/sx cmt.
450 A. J. Spark (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 1957 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955) 1955 (1955)	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 1900 ppm Fluid volume: 20 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD ☐ Conv. to GSW	Dewatering method used: Evaporation
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	
ENHR Permit #:	
GSW Permit #:	County: Permit #:
2/19/13 3/7/13 3/7/13	*
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	
Kansas 67202, within 120 days of the spud date, recompletion, workover or or of side two of this form will be held confidential for a period of 12 months if rec	
AFFIDAVIT	KCC Office Use ONLY
I am the affiant and I hereby certify that all requirements of the statutes, rules and lations promulgated to regulate the oil and gas industry have been fully complied	
and the statements herein are complete and correct to the best of my knowledge	ge. Date:
levet MITTE	Confidential Release Date: Wireline Log Received
	Wildling Log Neceived

Geologist Report Received

ALT I II III Approved by:

Date:

UIC Distribution

A7000		nt Solutions, LLC				_ Well #:		
Sec. 23 Twp.12	s. R. <u>20</u>	✓ East West	County: Le	avenworth				-
time tool open and clos	sed, flowing and sh s if gas to surface t	nd base of formations pout-in pressures, whether test, along with final char al well site report.	shut-in pressure r	eached static leve	el, hydrostatic pres	sures, bottom	hole temperature	e, fluid
Drill Stem Tests Taken (Attach Additional SI	heets)	☐ Yes ✓ No]Log Formati	on (Top), Depth a	nd Datum	Sample	;
Samples Sent to Geolo	•	Yes ✓ No		ame		Top	Datum 772	
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)		Yes No Yes No Yes No	squ squ			765 808	814	
List All E. Logs Run:								
			G RECORD	New Used	etion 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 Pero	
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	
		ADDITION	AL CEMENTING / S	QUEEZE RECORI	D			
Purpose: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and	Percent Additive	S	
Protect Casing Plug Back TD Plug Off Zone				ι				18
Shots Per Foot		TION RECORD - Bridge Ply Footage of Each Interval P			acture, Shot, Cemer Amount and Kind of M			pth
	Not Perforated				Annual Comments of the Comment			
			*					
						*		<u> </u>
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No)		
Date of First, Resumed F Not in production	Production, SWD or E	NHR. Producing Mo	ethod:	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf V	Vater	Bbls.	Gas-Oil Ratio	Grav	ity
DISPOSITIO Vented Sold (If vented, Subr	Used on Lease	Open Hole		ally Comp.	ommingled	PRODUCT	ON INTERVAL:	



1012

TICKET NUMBER 38881

LOCATION Offawa

FOREMAN Alga Mader

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

FIELD TICKET & TREATMENT REPORT

DATE	CUSTOMER#	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-13	Mir	the state of the s	NW 23	12	20	LV
USTOMER	er grand of the and assenti-				esceptiva de la Cal	DD1/55
1eavy C IAILING ADDRE		nt Solutions	TRUCK#	DRIVER	TRUCK#	DRIVER
	1 1 1 1	\mathcal{D}_{\bullet}	316	HIGMAR	Safety.	Meet
1513	Mustans	ZIP CODE	13-	MAINICU	NVIII	
Baller	1 C: +4 K		675	Re, UCT	RO	
Jalaui			372	Wellan	TIQUE 27	18
	STring HOLES			CASING SIZE & W	OTHER	0
ASING DEPTH			gal/sk	CEMENT LEFT in		5
URRY WEIGH			200	6.81	om	
MARKS: He	ld neeting.	Hooked to ca		fablished	2 rate	> _
MIVON	+ Pumped	100 # gel f	21/21/20	by 1.30	> sk 6	0/40
emen	1 2/1/ 2	To gel Cir	culated	cement	Flus	hed
200000	Pumped p	lus to cas in	- N	rell held	0 800	P57
501	float.	3 10 243, 11) , 0. 10	CH VIEN	~ ~~~	
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HAT	Dalling Er			110	4/5	
1///	Orithis Fil			11)00	42	
			AND TRAINING OF A CO.	V		T
ACCOUNT CODE	QUANITY or UNIT	S DESCRIPTI	ION of SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
	QUANITY or UNIT	S DESCRIPTION OF THE PUMP CHARGE	ION of SERVICES or PR	368	UNIT PRICE	
	QUANITY or UNIT		ION of SERVICES or PR		UNIT PRICE	
5401	1	PUMP CHARGE MILEAGE	ion of services of pr	368 368	UNIT PRICE	1030.00
5401 5406	1	PUMP CHARGE MILEAGE	Constant Con	368	UNIT PRICE	1030.00
5401 5406	1	PUMP CHARGE MILEAGE	footage	368 368 368	UNIT PRICE	1030.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Ton Mi	footage	368 368 368 558	UNIT PRICE	160.00 160.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Ton Mi	footage	368 368 368 558	UNIT PRICE	1030.00
CODE 5401 5406 5402	1	PUMP CHARGE MILEAGE Casing Tun Mi	footage 103	368 368 368 558	UNIT PRICE	1630.00 160.00
5401 5406 5402 5407 5502C	1	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage les	368 368 368 558	UNIT PRICE	1030.00 160.00 3500
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE Casing Tun Mi	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 350.0
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		160.00 160.00 350.0 142850 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		160.00 160.00 350.0 142850 68.06
CODE 5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL	footage 103	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	footage 103	368 368 368 558		1030.00 160.00 3500 11428450 68.06
5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 11428450 68.06
CODE 5401 5406 5402 5407 5502C 131 118B	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558		1030.00 160.00 3500 3700 142845 68.06
CODE 5401 5406 5402 5407 5502C	40 865 Ming	PUMP CHARGE MILEAGE CASING TON MI 80 UGL 60/40 C gel 21/2 plug	tootage les ement	368 368 368 558	SALES TAX	1030.00 160.00 3500 3700 1438450 68.04



256931

LOCATION Ottowa, KS
FOREMAN Casey Keywody

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

FIELD TICKET & TREATMENT REPORT

	·	·	. •=======				
DATE	CUSTOMER#	WELL NAME & NUM	IBER	SECTION	TOWNSHIP	RANGE	COUNTY
2/19/13		Mini-Farm #1		NW 23	12	20	LV
CUSTOMER	1 -	1 1 6 1 1.			14. 医野鱼从位于外	State the se	
Heavy	Oil Irea	tment Solutions 4	d	TRUCK#	DRIVER .	TRUCK#	DRIVER
MAILING ADDRE	ESS			481	Casken	Satisly	leeling
1513	Mustang	Dr		6106	Garlon	1 salery	Peting
CITY		STATE ZIP CODE	1	510	Set Tuc		
Baldwin	. City	KS 66006	180		100	<i>P</i>	
JOB TYPE SU		HOLE SIZE / L	HOLE DEPTH	168	CASING SIZE & V	VEIGHT 7"	
CASING DEPTH	(08)	DRILL PIPE	_TUBING			OTHER	
SLURRY WEIGH		SLURRY VOL	WATER gal/s	:k	CEMENT LEFT in	CASING &	
		DISPLACEMENT PSI	MIX PSI		RATE 4,56	eu_	
REMARKS: 10	ld sately	needing established	deiresto	Lion, mix	ed + our	ped	Sec
Class "A	" cerne	ent wid 220 all.	270 Can		4 # Flose		sk
cement +	to surface	, displaced cen	ent 6	w/2.5	66s fresh		E' left
in casing	, short on	casing.		* topolimical constraint			
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HAT DI	rilling su	policed 4-0			1-)4	/	
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ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUC	СТ	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE			825.00
540 le	42 mi	MILEAGE			168,00
5402	U8 1	casing toplage			
5407	minimum	ton mileage	٠,		350.00
			à.		
11045	35 sts	Class "A" coment			523.25
1102	le4 #	Calcium Chloride		·	48.84
1118B	66 #	Premium Gel			13.86
1107	9 #	Flo Seal		. **	21.15
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		#2770.81	* 1 * *	Brown R.	
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	1	•	7,3%	SALES TAX	44.32
avin 3737	Jun 1 MAR	1		ESTIMATED TOTAL	1994.42
AUTHORIZTION_	111111111111111111111111111111111111111	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

-sile F			
	CATINE DO	E I Setus Reof	\$2-T125-R20E / \$1-1126
22 - 123 - R 191 St. The Wase \$6-T126-R 20E	S6-T128 R20E S2-T128 R2		
			S11, T42S-R20E S12-T12
SYNEMIZS-R19ES12-T12S-R19E 37-T12S-R20E	\$8.7 128 K20E \$9.17126 R2	OE 910 T125 R20E	
P.S-419E			
\$129C12S-119E			
S13-T12S-R19E S18-T12S-R20E	\$17-T125-R20E \$18-T125-F	20E \$ \$98 7128 R20E	9142-128 P30E
H ATI CE RIDE			
	321712S	8200- S22- Well	174.4 Pede 335
TO NAME SOFT THE RIGHT SAN TOP		NiniFarm Wei	acres
\$10-T1293(R20E)			
280 T125 R	205	\$27. T12 20E	
	1-521 1429 R28E - 528 1128		- 28 T 172 R 20
		3217535-1201	
	125 R29E 17 583.T1	R20E 334 / 128 R20E	12/1

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	\$ 2	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.

<u>Total lease Working Interest Purchased</u>: 100 %; net revenue interest 68.75 %.

Lease Acreage: 77.40 Acres

Potential Drilling Locations: 31

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

cheap version expensive version

Drilling-Evans Energy Surface Pipe 8 5/8" @ \$ 14.88/ft.@ 60'	\$	9,700 893*	9,700 893*
Surface Hole size 11" Cement Surface (Consolidated) 50-50 post Cement Surface (Consolidated) 60-40 4 1/2" longstring 1080' @ \$ 3.79/ft-limited s		2,300* 4,093*	2,400*
4 1/2" longstring 1080 @ \$ 5.79/t-infitted \$ 4 1/2" longstring 1089' @ \$ 5.00/ft Cement longstring 50-50 posmix (Consolid		4,033 4,287*	5,445*
Cement longstring 60-40 (Consolidated) 2 7/8" limited service 1080' @ \$ 3.79/ft	,	4,010*	4,585*
2 7/8" tight seal 1080' @ 7.36/ft	4 F \	2.500	7,787*
Log & perforate 17' @ 2 shots/ft (36 shots . 27/8" seal tight packer	.45)	3,500 1,150*	3,500 1,150*
4 1/2 " pipe clamp		62*	62*
(4) 4 1/2" centralizers @ \$ 30.00 each 4 1/2" float shoe		124* 169*	124* 169*
4 1/2" brass swedge		222*	222*
2" brass ball valve		68*	68*
4	\$	30,578	36,105
Sales Tax		2,232	2,636
Tota	 \$	32,810	38,741

Does not include pump, line & miscellaneous fittings

^{*} plus sales tax @ 7.3 % (Leavenworth County Rate)

1st Squirrel oil 765-771'

765-768

Mini-Farm Well # 1

2nd Squirrel samples 804-812'

804-808

768-770

808-812

770-771

Five well shallow Development (68.75 % Net Revenue Interest)

Estimated Production (5 wells)

	daily	<u>monthly</u>
barrels/well/day	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)

Monthly	<u>Price</u>				
<u>Productio</u> n	<u>80.00</u>	<u>85.00</u>	<u>90.00</u>	<u>95.00</u>	<u>100.00</u>
150 bbl	12,000	<i>12,750</i>	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)

	Total Lease Income		<u>68.75 % nri</u>
Price/barrel	monthly gross income	annual gross income	annual gross income
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>Total Lease Income</u>		68.75 % nri
Price/barrel	monthly gross income	annual gross income	annual gross income
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>Total Lease Income</u>		<u>68.75 % nri</u>
Price/barrel	monthly gross income	annual gross income	annual gross income
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)

	Total Lease Income		68.75 % nri
Price/barrel	monthly gross income	annual gross income	annual gross income
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)

	Total Lease Income		68.75 % nri
Price/barrel	monthly gross income	monthly gross income annual gross income	
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)

			68.75 % nri
Price/barrel	Monthly gross income	annual gross income	annual gross income
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.