



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
FINV
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 271492

Invoice Date: 09/30/2014 Terms: 0/30/10,n/30

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MISCELLANEOUS ACCOUNTS
CUTLER OIL C/O FRANK SAVAGE
4442 HAMILTON TERR
RANTOUL KS 66079
() -

SAVAGE #41
48253
SW5-18-21
9-26-14
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	93.00	11.5000	1069.50
1118B	PREMIUM GEL / BENTONITE	256.00	.2200	56.32

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-337.75

Description	Hours	Unit Price	Total
368 CEMENT PUMP	1.00	1085.00	1085.00
368 EQUIPMENT MILEAGE (ONE WAY)	15.00	4.20	63.00
368 CASING FOOTAGE	654.00	.00	.00
548 MIN. BULK DELIVERY	1.00	368.00	368.00

*CK 1053
10-6-14*

Amount Due 2727.95 if paid after 10/10/2014

Parts:	1125.82	Freight:	.00	Tax:	60.29	AR	2364.36
Labor:	.00	Misc:	.00	Total:	2364.36		
Sublt:	-337.75	Supplies:	.00	Change:	.00		

Signed _____

Date _____



CONSOLIDATED
Oil Well Services, LLC

271492

TICKET NUMBER 48253
LOCATION Ottawa
FOREMAN Alan Mada

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
9-26-14	9999	Savage #41	SW 5	18	21	FR
CUSTOMER Cutter Oil Co. Frank Savage			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 4442 Hamilton Terr			730	Alan Mada	Safety Meet	
CITY Chanute			308	Mikha		
STATE KS			578	Dan Wha		
ZIP CODE 66709			Town water			

JOB TYPE long string HOLE SIZE 5 3/8 HOLE DEPTH 672 CASING SIZE & WEIGHT 2 7/8
 CASING DEPTH 654 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING yes
 DISPLACEMENT 3.8 DISPLACEMENT PSI 200 MIX PSI 200 RATE 46 bpm

REMARKS: Held meeting. Establihed rate down open ended 2 7/8. Mixed & pumped 100# gel followed by 93 SK 50/50 cement plus 270 gel. Circulated cement. Displaced casing with 3.8 bbl clean water. Set casing down on core slot. Ran 1" tubing to TD of core slot & washed clean.

Town, Scott K.
Utah, Brad L.

Alan Mada

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1081.00 ✓
5406	15	MILEAGE	368	63.00 ✓
5402	654	casing footage	368	240.72 ✓
5407	min	ton miles	348	368.00 ✓
1124	93	50/50 cement	1169.50	1087.65 ✓
118B	256 #	gel	56.32	14.44 ✓
		material sub	1125.82	1125.82 ✓
		less	-337.75	788.07 ✓
			2227.95	
		SALES TAX		60.29 ✓
		ESTIMATED TOTAL		2364.36 ✓

Revin 3737

no company rep
Jim O'K

AUTHORIZATION _____ 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.

Franklin County KS
Well: Savage #1
Lease Owner: Culler Oil

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
09-24-2014

WELL LOG

Thickness of Strata	Formation	Total Depth
1	soil /clay	1
2	lime	3
6	junder clay	9
5	shale	14
8/	shale	22
22	lime	44
6	shale	50
3	red bed	53
21	shale	74
18	lime	92
12	lime	104
1	shale	105
80	lime	185
18	shale	203
6	lime	209
2	shale	211
18	sandy lime	229
4	sandy shale	233
39	lime	272
16	shale	288
8	lime	296
28	shale and slate	324
10	lime	334
21	shale and slate	355
5	lime	360
3	shale and slate lime	363
4	shale and slate	367
5	lime	372
37	shale	409
7	sand	416
71	sandy shale	487
5	sand	492
20	sandy shale	512
5	shale	517
11	lime	520
3	shale	531
15	lime	546
10	shale	556
5	sand	561
29	sandy shale	590

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times 14 \times h$

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004

BPH - barrels per hour

PSI - pounds square inch

TO FIGURE PUMP DRIVES

* D - Diameter of Pump Sheave

* d - Diameter of Engine Sheave

SPM - Strokes per minute

RPM - Engine Speed

R - Gear Box Ratio

* C - Shaft Center Distance

D - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMXD

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

* Need these to figure belt length

WATTS = AMPS

TO FIGURE AMPS:

VOLTS

746 WATTS equal 1 HP

Log Book

Well No. 41

Farm Savage

Ks Franklin
(State) (County)

5 18 21
(Section) (Township) (Range)

For Cutler Oil LLC
(Well Owner)

Town Oil Company, Inc.

16205 W. 287th St.

Paola, KS 66071

913-294-2125

785-468-1225

Thickness of Strata	Formation	Total Depth	Remarks
1	Soil & clay	1	
2	Lime	3	
6	weather-clay	9	
5	shale	14	yellow
8	shale	22	grey
22	Lime	44	oil show
6	shale	50	
3	Red Bed	53	
21	shale	74	
18	Lime	92	
12	shale	104	
1	Lime	105	
80	shale	185	
18	Lime	203	
6	shale	209	
2	sandy lime	211	green
18	sandy shale	229	
4	Lime	233	
39	shale	272	
16	Lime	288	Down
8	Shale & slate	296	
28	Lime	324	winter set
10	shale & slate	334	
21	Lime	355	Bethany Falls
5	shale & slate	360	
3	Lime	363	Rick
4	shale & slate	367	

212

367

Thickness of Strata	Formation	Total Depth	Remarks
5	Lime	372	Hertha
37	shale	409	
7	sand	416	green, no show, gas?
71	sandy shale	487	
5	sand	492	green, no show
20	sandy shale	512	grey
5	shale	517	w / lime streaks
11	Lime	528	
3	shale	531	
15	Lime	546	white
10	shale	556	
5	sand	561	green, solid, no show
29	sandy shale	590	green
7	Lime	597	
13	shale	610	
3	lime	613	Brown
12	shale	625	
12	shale	637	w lime streaks
7	Lime	644	oil show
2	shale	646	grey
7	sandy shale	653	green
1	sand	654	Oil show Trapped out put
4	sand	658	solid on core barrel
4	sand	662	laminated
10	sandy shale	672	No show T.O.

Used our water tank to cement well

