

Anderson County, KS
Well: Poss 46
Lease Owner: R.T. Enterprises

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

Commenced Spudding:
8/29/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
19	soil/clay	19
54	shale	73
29	lime	102
15	shale	117
3	lime	120
2	shale	122
2	lime	124
45	shale	169
12	lime	181
8	shale	189
35	lime	224
7	shale	231
21	lime	252
4	shale	256
7	lime	263
4	shale	267
5	lime	272
4	shale	276
4	sandy shale	280
1	lime	281
29	shale	310
4	sand	314
36	sandy shale	350
9	shale	359
13	sandy shale	372
32	shale	404
6	sand	410
5	sandy shale	415
26	shale	441
2	lime	443
4	shale	447
3	lime	450
4	shale	454
8	lime	462
9	shale	471
7	sand	478
3	sandy shale	481
8	shale	489
4	sandy shale	493
11	sand	504

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4	sandy shale	508
2	coal	510
2	lime	512
2	shale	514
1	lime	515
3	shale	518
2	lime	520
4	shale	524
2	lime	526
8	shale	534
4	lime	538
21	shale	559
11	lime	570
19	shale	589
2	lime	591
2	shale	593
2	coal	595
7	shaloe	602
3	lime	605
15	shale	620
7	brokan sand	627
12	sand	639
8	sand	647
25	sand	672
3	sandy shale	675
7	broken sand	682
2	sandy shale	684
21	shale	705
9	sand	714
21	sandy shale	735
10	broken sand	745
9	sandy shale	754
5	sand	759
4	sandy shale	763
51	sand	814
25	sandy shale	839
34	shale	873
25	sandy shale	898
7	sand	905
7	sandy shale	912
2	lime	914
6	shale	920
17	sandy shale	937
58	shale	995
23	sandy lime	1018
3	sandy lime and sand	1021
19	lime	1040-TD

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 - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times d$

R - $RPM \times D$ over $SPM \times d$

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

* Need these to figure belt length

TO FIGURE AMPS: $\frac{WATTS}{VOLTS} = AMPS$

746 WATTS equal 1 HP

Log Book

Well No. 46

Farm Pass

KS
(State)

Anderson
(County)

11
(Section)

20
(Township)

20
(Range)

For R.T. Enterprises
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
19	soil clay	19	
54	shale	73	
29	Lime	102	water
15	shale	117	
3	Lime	120	
2	shale	122	
2	Lime	124	
45	shale	169	
12	Lime	181	
8	shale	189	
35	Lime	224	
7	shale	231	
21	Lime	252	
4	shale	256	
7	Lime	263	
4	Shale	267	
5	Lime	272	
4	shale	276	
4	sandy shale	280	
1	Lime	281	Hertha
29	shale	310	
4	sand	314	some odor, no oil
36	sandy shale	350	
9	shale	359	
13	sandy shale	372	
32	shale	404	
6	sand	410	only little oil

Thickness of Strata	Formation	Total Depth	Remarks
5	sandy shale	415	
26	shale	441	
2	Lime	443	
4	shale	447	
3	Lime	450	
4	shale	454	
8	Lime	462	
9	shale	471	
7	sand	478	
3	sandy shale	481	little odor & oil
8	shale	489	
4	sandy shale	493	
11	sand	504	odor, little oil
4	sandy shale	508	
2	coal	510	
2	Lime	512	
2	shale	514	
1	Lime	515	
3	shale	518	
2	Lime	520	
4	shale	524	
2	Lime	526	
8	shale	534	
4	Lime	538	
21	shale	559	
11	Lime	570	
19	shale	589	

589

Thickness of Strata	Formation	Total Depth	Remarks
2	Lime	591	
2	shale	593	
2	oool	595	
7	shale	602	
3	Lime	605	
15	shale	620	
7	Broken sand	627	no o. l
12	sand	639	Broken sand 20% sand 30% shale
8	sand	647	Broken sand 50% sand 20% shale
25	sand	672	Brown oil sand
3	sandy shale	675	
7	Broken sand	682	50% sand 50% shale with oil
2	sandy shale	684	
21	shale	705	
9	sand	714	Broken sand no oil
21	sandy shale	735	
10	Broken sand	745	no o. l
9	sandy shale	754	
5	sand	759	no oil
4	sandy shale	763	
51	sand	814	no o. l
25	sandy shale	839	
34	shale	873	
25	sandy shale	898	
7	sand	905	no o. l
7	sandy shale	912	
2	Lime	914	



CONSOLIDATED
Oil Well Services, LLC

API = 13-003-25843

262084

TICKET NUMBER 42429

LOCATION Ottawa

FOREMAN Alan Maden

PO Box 884, Chanute, KS 66720
820-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-3-13	59541	Pass 46	NW 11	27	27	AN
CUSTOMER <u>Orenoc</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>120 Shoreline Dr</u>			516	Al Mad		
CITY <u>Louisburg</u>			495	Harber		
STATE <u>KS</u>			505/1106	Jas B:c		
ZIP CODE <u>66053</u>			548	Mik Hag		

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 760 CASING SIZE & WEIGHT 2 7/8
 CASING DEPTH 737 DRILL PIPE _____ TUBING _____ OTHER 705 baffle
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING yes
 DISPLACEMENT 4.1 DISPLACEMENT PSI 800 MIX PSI 200 RATE 5 bpm

REMARKS: Held meeting. Hooked to casing. Established rate. Mixed & pumped 100 gal followed by 109 sk 50150 cement plus 2 1/2 gal. Circulated cement. Flashed pump. Pumped plug to baffle. Well held 800 PSI. Set float. Closed valve.

TOS, Chad.

Alan Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085.00
5406	25	MILEAGE	495	105.00
5402	237	casing footage	495	118,315.00
5407	109	ton miles	548	59,732.00
55016	112	80 val	505/1106	180.00
1124	109	50150 cem		1233.50
11183	283	gal		62.26
4402	1	2 1/2 plug		29.50

SALES TAX 102.91
 ESTIMATED TOTAL 3186.67
 AUTHORIZATION no company rep TITLE _____ DATE _____
Jim Okid

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