



11 Lewis Drive

Paola, KS 66071

Oil & Gas Well Drilling  
Water Wells  
Geo-Loop Installation

Phone: 913-557-9083

Fax: 913-557-9084

**WELL LOG**

A & L Energy Operations, LLC

Alma #10

API #15-059-26,662

May 22 - May 23, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
4	soil & clay	4
13	lime	17
4	shale	21
10	lime	31
6	shale	37
19	lime	56
27	shale	83
25	lime	108
84	shale	192
21	lime	213
8	shale	221
6	lime	227
11	shale	238
5	lime	243
31	shale	274
10	lime	284
20	shale	304
26	lime	330
6	shale	336
23	lime	359
4	shale	363
12	lime	375 base of the Kansas City
153	shale	528
5	lime	533
8	shale	541
3	lime	544
28	shale	572
1	coal	573
28	shale	601
2	lime	603
1	shale	604
1	coal	605
15	shale	620
3	lime	623
6	shale	629
5	lime	634 good bleeding
17	shale	651
6	broken sand	657 brown & green, no bleeding

4.5	broken sand	661.5	brown & green, light bleeding
2	shale	663.5	
2	oil sand	665.5	brown, light bleeding
65.5	shale	731	
1	coal	732	
3	shale	735	
2	broken sand	737	brown & green, light bleeding
163	shale	900	TD

Drilled a 9 7/8" hole to 22.2'

Drilled a 5 5/8" hole to 900'

Set 22.2' of 9 7/8" casing threaded and coupled cemented with 5 sacks of cement.

Plugged back to 730' with cement.

Set 730' of 2 7/8" 8 round upset 3 centralizers, 1 float shoe, 1 clamp.

	Core Times	
	<u>Minutes</u>	<u>Seconds</u>
652		25
653		35
654		36
655		32
656		36
657		37
658		36
659		30
660		25
661		29
662		32
663		40
664		24
665		33
666		35
667		41
668		40
669		38
670		35
671		43
672		46
673		48
674		42
675		30
676		26
677		23
678		29
679		34
680		37
681		35
682		35
683		35
684		29
685		31
686		41
687		32
688		36
689		31
690		30
691		36
692		37



**CONSOLIDATED**  
Oil Well Services, LLC

268467

TICKET NUMBER 47203

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
5/23/14	3898	Alma #10	SE 20	16	21	FR

CUSTOMER  
A+L Energy

MAILING ADDRESS  
575 Madison Ave 22nd Fl

CITY  
New York STATE  
NY ZIP CODE  
10022

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Carsten	✓ Safety Meeting	
6666	Garmon	✓	
503	Art McD	✓	
370	Jas Ric	✓	

JOB TYPE Logging HOLE SIZE 5 5/8" HOLE DEPTH 900' CASING SIZE & WEIGHT 2 7/8"

CASING DEPTH 730' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER plug back to 730'

SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_

DISPLACEMENT 4.23 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 bpm

REMARKS: held safety meeting, established circulation at hole TD, mixed & pumped 100# Premium Gel followed by 10 bbls fresh water, mixed & pumped 15 sks 50/50 Pozmix cement w/ 2% gel per sk to plug hole back to 730', pulled casing back to 730', mixed & pumped 100# gel followed by 10 bbls fresh water, mixed & pumped 104 sks cement, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TD w/ 4.23 bbls, fresh water, pressured to 800 PSI, released pressure, shut in casing.

*PK*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	15 mi	MILEAGE		63.00
5402	730'	casing footage		
5407	minimum	ten mileage		368.00
5502C	2 hrs	80 Vac		200.00
1124	119 sks	50/50 Pozmix cement	1368.50	
118B	400 #	Premium Gel	88.00	
		materials	1456.50	
		-30%	436.95	
		subtotal		1019.55
4402	1	2 1/2" rubber plug		29.50
			3215.68	
		7.65%	SALES TAX	80.25
			ESTIMATED TOTAL	2845.30

Ravin 3737

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