



Oil & Gas Well Drilling  
 Water Wells  
 Geo-Loop Installation

11 Lewis Drive Paola, KS 66071

Phone: 913-557-9083  
 Fax: 913-557-9084

**WELL LOG**

A & L Energy Operations, LLC  
 Alma #7  
 API #15-059-26,669  
 May 16 - May 20, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
7	soil & clay	7
36	lime	43
26	shale	69
22	lime	91
88	shale	179
22	lime	201
7	shale	208
5	lime	213
13	shale	226
6	lime	232
28	shale	260
10	lime	270
2	shale	272
3	lime	275
16	shale	291
10	lime	301
3	shale	304
11	lime	315
7	shale	322
23	lime	345
4	shale	349 oil show
12	lime	361 base of the Kansas City
49	shale	410
6	sand	416
93	shale	509
7	lime	516
3	shale	519
8	lime	527
28	shale	555
1	coal	556
27	shale	583
3	lime	586
2	shale	588
1	coal	589
15	shale	604
4	lime	608
5	shale	613
6	lime	619 brown, good bleeding

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8	shale	627
5	oil sand	632 brown 90% bleeding sand
3	oil sand	635 brown, no oil show
2	oil sand	637 brown, 10% bleeding
4	limey sand	641
28	broken sand	669 brown & grey, ok bleeding
3	oil sand	672 black, no bleeding
66	shale	738 TD

Drilled a 9 7/8" hole to 22.2'

Drilled a 5 5/8" hole to 738'

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

Set 728' of 2 7/8" 8 round upset 3 centralizers, 1 float shoe.

Core Times	
<u>Minutes</u>	<u>Seconds</u>
	59
	45
	44
	42
	37
	40
	44
	40
	46
	57
638	1 30
639	1 34
640	1 52
641	1 23
642	39
643	41
644	40
645	42
646	35
647	43
648	1 0
649	1 2
650	1 1
651	1 9
652	55
653	56
654	54
655	1 0
656	1 4
657	58
658	59



**CONSOLIDATED**  
Oil Well Services, LLC

268373

TICKET NUMBER 47174  
LOCATION Chanute, 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
5/20/14	3098	Alma # 7	SE 20	16	21	FR

CUSTOMER At L Energy  
MAILING ADDRESS 575 Madison Ave  
CITY New York STATE NY ZIP CODE 10022

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Carsten	✓ Safety Meeting	
495	Fre Mad	✓	
510	Har Bec	✓	
675	Kei Det	✓	

JOB TYPE Logging HOLE SIZE 5 7/8" HOLE DEPTH 738' CASING SIZE & WEIGHT 2 7/8" EUE  
CASING DEPTH 728' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 4.21 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed + pumped 100 sks 50/50 Pozmix cement w/ 2% gel per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TD w/ 4.21 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

*Handwritten signature/initials*

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	728'	casing footage		
5407	minimum	ton mileage		368.00
5502C	2 hrs	80 Vac		200.00
1124	100 sks	50/50 Pozmix cement	1150.00	
1118B	360 #	Premium Gel	80.96	
		materials	1230.96	
		- 30%	369.29	
		subtotal		861.67
4402	1	2 1/2" rubber plug		29.50
			3072.89	
		7.65%	SALES TAX	168.18
			ESTIMATED TOTAL	2675.35

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.