



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 #1-5

API #15-059-26,697

June 3 - June 4, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
4	soil & clay	4
6	lime	10
4	shale	14
15	lime	29
4	shale	33
20	lime	53
27	shale	80
24	lime	104
86	shale	190
21	lime	211
25	shale	236
7	lime	243
22	shale	265
4	lime	269
3	shale	272
14	lime	286
16	shale	302
23	lime	325
12	shale	337
20	lime	357
4	shale	361
11	lime	372 base of the Kansas City
148	shale	520
10	lime	530
45	shale	575
4	lime	579
16	shale	595
5	lime	600
1	coal	601
24	shale	625
5	lime	630 good bleeding
7	shale	637
2	oil sand	639 brown, no bleeding
10.5	broken sand	649.5 brown & green, no bleeding
2.5	limy sand	652
15	broken sand	667 brown & grey 30% bleeding
14	broken sand	681 black & grey 40% bleeding
33	shale	714 TD

Alma # I-5

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Drilled a 9 7/8" hole to 22.4'

Drilled a 5 5/8" hole to 714'

Set 22.4' of 7" surface casing cemented with 5 sacks of cement.

Set 704' of 2 7/8" 8 round upset 3 centralizers, 1 float shoe, 1 clamp.

Core Sample	
<u>Minutes</u>	<u>Second</u>
	21
	22
	29
	26
	28
	29
	32
	27
	31
	33
	33
	28
	52
1	
2	1
1	12
	23
	21
	22
	24
	22
	29
	31
	27
	24
	25
	26
	22
	25
	30
	28
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	34
	36
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	38
	33
	32
	43
	31



CONSOLIDATED
Oil Well Services, LLC

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

TICKET NUMBER 47300

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/4/14	3898	Alma # I-5	SE 20	16	21	FR
CUSTOMER A+L Energy Operations			TRUCK #			
MAILING ADDRESS 575 Madison Ave			729	Driver Coker	TRUCK #	DRIVER
CITY New York	STATE NY	ZIP CODE 10022	6666	Garlino	✓	Safety Meeting
			510	Ar/McD	✓	
			370	Kei Det	✓	

JOB TYPE Longstring HOLE SIZE 5 5/8" HOLE DEPTH 714' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 704' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 4.08 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 95 sks 9% Pozmix cement w/ 2% gel per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TD w/ 4.08 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, 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	704'	casing footage		
5407	minimum	1000 mileage		368.00
5502c	2 hrs	80 lbc		200.00
1124	95 sks	9% Pozmix cement	1092.50	
1118B	360 #	Premium Gel	79.20	
		materials	1171.70	
		-30%	351.51	
		Subtotal		820.19
4402	1	2 1/2" rubber plug		29.50
			2991.67	
		7.65%	SALES TAX	65.00
			ESTIMATED TOTAL	2630.69

Revin 3737

AUTHORIZATION J. Haelin was there 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