



**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  
Neis #N1  
API #15-045-22,216  
June 30 - July 1, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
18	soil & clay	18
2	shale	20
20	lime	40
11	shale	51
7	lime	58
11	shale	69
17	lime	86
38	shale	124
13	lime	137
12	shale	149
2	lime	151
32	shale	183
9	lime	192
17	shale	209
12	lime	221
3	shale	224
2	lime	226
17	shale	243
7	lime	250
22	shale	272
15	lime	287
3	shale	290
32	lime	322
8	shale	330
21	lime	351
5	shale	356
5	lime	361
6	shale	367
4	lime	371 base of the Kansas City
169	shale	540
4	lime	544
17	shale	561
7	lime	568
12	shale	580
4	lime	584
6	shale	590
6	limey sand	596 grey hard limey sand, no show
9	lime	605 soft
5	shale	610

Neis #N1

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10	red bed	620
15	shale	635
1	lime	636
2	silty shale	638
0.5	oil sand	638.5 brown good bleeding gassy
1	lime	639.5
1	oil sand	640.5 brown good bleeding gassy
0.5	broken sand	641 40% brown sand 60% shale ok bleeding
1	oil sand	642 brown good bleeding gassy
1	broken sand	643 15% sand 85% shale light bleeding
1	oil sand	644 brown good bleeding
4	broken sand	648 90% brown sand 10% shale good bleeding
3	broken sand	651 30% sand 70% shale ok bleeding
66	shale	717 TD

Drilled a 9 7/8" hole to 44.9'

Drilled a 5 5/8" hole to 717'

Set 44.9' of 7" threaded and coupled surface casing cemented with 9 sacks of cement.

Set 701.55' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp.

	Core Times	
	<u>Minutes</u>	<u>Seconds</u>
638	1	38
639	1	57
640		48
641		37
642		33
643		33
644		40
645		42
646		36
647		43
648		34
649		34
650		42
651		37
652		38
653		43
654		47
655		51
656		45
657		28



**CONSOLIDATED**  
Oil Well Services, LLC

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

269614

TICKET NUMBER 47359  
LOCATION Chanute, KS  
FOREMAN Casey Kennedy

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/1/14	3898	Nelis # N-1	SW 32	13	21	DB

  

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
A+L Energy	729	Casey	✓	Safety, Medias
Mailing Address	495	Har Bec	✓	
575 Madison Ave	548	Dan Wha	✓	
CITY	370	Mat Coc	✓	
New York				
STATE				
NY				
ZIP CODE				
10022				

JOB TYPE Longstring HOLE SIZE 5 7/8" HOLE DEPTH 717' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 702' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 4.06 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200# Premium  
Gel followed by 10 bbls fresh water, mixed & pumped 89 sks OWC cement w/  
200# Premium 1/4" Floeal per sk, cement to surface, flushed pump clean,  
pumped 2 1/2" rubber plug to casing TD w/ 4.06 bbls fresh water, pressured  
to 1800 PSI, released pressure, shut in casing.

*Handwritten signature: B J F*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	30 mi	MILEAGE		126.00
5402	702'	casing footage		
5407	minimum	ten mileage		368.00
5502C	2 hrs	80 Vac		200.00
1126	89 sks	owc cement	1757.75	
1118B	200 #	Premium Gel	44.00	
1107	22 #	Floeal	54.34	
		materials	1856.09	
		- 30%	556.83	
		subtotal		1299.26
4402	1	2 1/2" rubber plug		29.50
			3799.41	
		7.15%	SALES TAX	95.02
			ESTIMATED TOTAL	3202.78

Revin 3737

AUTHORIZATION No Co Prop on location 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 for