



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**

Justin Energy Corporation  
North Hoehn #1-2  
API #15-059-26,405  
January 21 - January 22, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
6	soil & clay	6
21	broken lime	27
7	shale	34
11	lime	45
5	shale	50
16	lime	66
35	shale	101
20	lime	121
3	shale	124
2	lime	126
75	shale	201
21	lime	222
24	shale	246
6	lime	252
31	shale	283
5	lime	288
7	shale	295
1	lime	296
16	shale	312
3	lime	315
9	shale	324
12	lime	336
10	shale	346
19	lime	365
5	shale	370
5	lime	375
2	shale	377
5	lime	382 oil show base of the Kansas City
52	shale	434
4	sand	438 green, gassy
2	silty shale	440
56	shale	496
3	broken sand	499 90% brown sand 10% shale good bleeding
27	shale	526
10	lime	536 oil show
12	shale	548
6	broken sand	554 brown & green sand ok bleeding
22	shale	576

1	coal	577
6	shale	583 black
8	lime	591
14	shale	605
2	lime	607 brown no oil
2	shale	609 black
1	coal	610
6	shale	616
2	lime	618
3	shale	621
3	lime	624
5	shale	629
2	lime	631
6	shale	637
4	lime	641 brown lime good bleeding
2	lime	643
7	shale	650
1	broken sand	651 20% brown sand 80% shale light bleeding
19	oil sand	670 light brown sand, minimal bleeding
9	oil sand	679 brown sand ok bleeding
4	broken sand	683 65% brown sand 35% shale good bleeding (gassy)
1.5	oil sand	684.5 brown sand good bleeding
3.5	broken sand	688 60% brown & grey sand 40% shale good bleeding
0.5	black sand	688.5 good oil show
3.5	broken sand	692 20% brown sand 80% shale good bleeding
4	black sand	696
34	shale	730 TD

Drilled a 9 7/8" hole to 21.8'

Drilled a 5 5/8" hole to 730'

Set 21.8' of 7" casing threaded and coupled cemented with 6 sacks of cement.

Set 719' of new 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.

	Core Times	
	<u>Minutes</u>	<u>Seconds</u>
650	1	8
651	1	10
652		35
653		37
654		40
655		35
656		40
657		41
658		36
659		38
660		44
661		34
662		29
663		35
664		39
665		37
666		39
667		36
668		36
669		38
670		39
671		43
672		46
673		44
674		50
675		58
676	1	0
677	1	15
678		49
679		48
680		42
681		38
682		38
683		38
684		42
685		41
686		43
687		41
688		42



**CONSOLIDATED**  
Oil Well Services, LLC

265589

TICKET NUMBER 42564  
LOCATION Ottawa  
FOREMAN Alan Mader

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
1-22-14	4174	N Hope Id	NE 20	16	21	FR
CUSTOMER Justin Energy			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 40971 W 247th			730	Ala Mad	Safety	Meat
CITY Wellsville	STATE KS	ZIP CODE 66092	368	Al Mad		
JOB TYPE long string	HOLE SIZE 5 5/8	HOLE DEPTH 729	369	Der Mas		
CASING DEPTH 719	DRILL PIPE	TUBING	538	Kei Kar		
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	OTHER			
DISPLACEMENT 4.2	DISPLACEMENT PSI 800	MIX PSI 200	CEMENT LEFT IN CASING Yes			
REMARKS: Held meeting. Established rate. Mixed & pumped 100# gel followed by 105 gal 50/150 cement plus 2 1/2 gal. Circulated cement. Flushed pump. Pumped plug to casing TD, well held 800 PSI for 30 minute MIT. Set float. Closed valve.						

Evans, Mitchell

Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		
5406	20	MILEAGE	368	1085.00
5402	719	Casing footage	368	84.00
5407	min	ton miles	368	
5502c	2	80 wac	358	368.00
			369	180.00
1124	105	50/150 cement		1207.50
1118B	276#	gel		60.72
4402	1	2 1/2 plug		29.50

Rev'n 8787

SALES TAX ESTIMATED TOTAL 99.28  
TOTAL 3714.00

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