

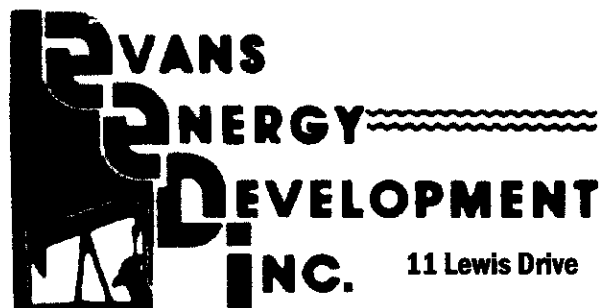




Form	ACO1 - Well Completion
Operator	Tailwater, Inc.
Well Name	South Kempnich 8-L
Doc ID	1295466

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9.8750	7	17	24	POZ	5	POZ
Production	5.62	2.8750	6.45	826	50/50 POZ	114	50/50 POZ



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**

Tailwater, Inc.

South Kempnich #8-L

API #15-003-26,490

December 22, 2015 - January 4, 2016

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
14	soil & clay	14
4	clay & gravel	18
49	shale	67
28	lime	95
4	shale	99
3	lime	102
5	shale	107
7	lime	114
35	shale	149
4	lime	153
3	shale	156
17	lime	173
7	shale	180
35	lime	215
6	shale	221
24	lime	245
3	shale	248 black
21	lime	269 base of the Kansas City
174	shale	443
2	lime	445
3	shale	448
2	lime	450
5	shale	455
9	lime	464 oil show at 460, light
52	shale	516
4	lime	520
10	shale	530
2	lime	532
8	shale	540
4	lime	544
48	shale	592
4	lime	596
9	shale	605
2	lime	607
14	shale	621
3	oil sand	624 good, bleeding
3	broken sand	627 50% bleeding sand, 50% shale

33	shale	660
3	oil sand	663 brown, little bleeding
3	broken sand	666 brown 50% shale 50% sand better bleeding
77	shale	743
5	oil sand	748 good stuff
3	shale	751
5	oil sand	756 good stuff
2	shale	758
2	black sand	760 no show
25	shale	785 few thin sand seams
2	sand	787
28	silty shale	815
18	sand	833 white, no oil
3	shale	836 TD

Drilled a 9 7/8" hole to 23.5'

Drilled a 5 5/8" hole to 836'

Set 23.5' of 7" surface casing with 5 sacks of cement.

Set 826' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.

Hurricane Services appreciates any Comments, Concerns or Criticism's from our valuable customers as Safety and Customer Satisfaction are our Number 1 goal. All Comments are confidential and will be used in a constructive manner to improve our Safety and Job Performance.

## TREATMENT REPORT



Customer:	Martin oil properties		Date:	1/4/2016	206:		1206:	
Representative:								
Address:								
City, State:								
County, Zip:								

Field Order No.:	50696	Open Hole:	5 5/8	Perf Depths (ft)	Perfs
Well Name:	South Kempnich 8-L	Casing Depth:	626		
Location:		Casing Size:	2 7/8		
Formation:		Tubing Depth:			
Type of Service:	Longstring	Tubing Size:			
Well Type:		Liner Depth:			
Age of Well:	new	Liner Size:			
Packer Type:		Liner Top:			
Packer Depth:		Liner Bottom:			
Treatment Via:		Total Depth:	636		
				Total Perfs	0

INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
TIME	FLUID	N2/O2	STP				
12:00pm				called out			
12:15 PM				leave shop			
12:30pm				on location			
12:30 PM				Ran wireline to confirm casing TD			
12:35Pm				safty meeting			
12:50pm				spotted trucks on location			
1:00pm				Hooked up to well			
1:05pm				started mixing 200# gel for sweep			6.00
1:10pm	3bpm		100.0	Started downhole with 5 bbl h2o			5.00
1:12Pm	3bpm		100.0	started downhole with gel sweep			8.00
1:15 PM	3bpm		100.0	started down hole with 5 bbl water spacer			5.00
1:18pm	3.5bpm		120.0	started pumping 5 bbl dye and mixing cement			8.00
1:20 PM	3.5bpm		150.0	Started down hole with 14.4 ppg cement			
1:30pm	1.5 bpm			dye to surface , shut down flush lines w/ water			2.00
1:33pm	3bpm			started 4.8 bbl displacement with fresh h2o			4.80
1:35pm	1.5bpm		1,200.0	Plug hits bottom 1200 psi			
1:37pm				release plug float shoe held			
1:40pm				disconnect from well and start wash up			
TOTAL:					-	-	

## SUMMARY

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
•		1,200.0	

## PRODUCTS USED

114 sks 50/50 poz mix 2% GEL 1/4 pheno seal

Treater: *Joe Blaychard*

**Customer: Martin Oil Properties**

## TREATMENT REPORT

**HURRICANE SERVICES INC**[illegible]

Activity provided on this page is calculated in the summary and totals on page 1



## TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	Martin Oil Properties	Date:	2/19/2016	Ticket No.:	1647
Field Rep:	Dan				
Address:					
City, State:	Garnett, Kansas				
County, Zip:	Anderson				

Field Order No.:  
 Well Name: **S. Kempnich #8-L**  
 Location:  
 Formation: **Lower Squirrel**  
 Type of Service: **Linear Gel Frac**  
 Well Type: **Oil**  
 Age of Well: **New**  
 Packer Type:  
 Packer Depth:  
 Treatment Via: **CSG**

Open Hole:  
 Casing Depth:  
 Casing Size: **2 7/8**  
 Tubing Depth:  
 Tubing Size:  
 Liner Depth:  
 Liner Size:  
 Liner Top:  
 Liner Bottom:  
 Total Depth: **814**

Perf Depths (ft)		Perfs
742.0	747.0	11
750.0	755.0	11
Total Perfs		22

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N <sub>2</sub> /CO <sub>2</sub>	STP	ANNULUS				
					Spot HCL/Safety Meeting/Rig Up			
			3,800.0		Line CK			
	6.0		1,400.0		Load and Break			
	16.0		1,300.0		EST Rate/Pump Pad with 100 mesh sand	100.00		15.00
	16.0		1,200.0		25# 12/20	50.00		4.76
	16.0		1,200.0		.5# 12/20	150.00		7.14
	16.0		1,600.0		1# 12/20 Drop 5 Balls	500.00		11.90
	16.0		2,400.0		2# 12/20 Drop 5 Balls	1,000.00		11.90
	16.0		3,000.0		2.5# 12/20 Drop 2 Balls and 25# Rock Salt	1,300.00		12.38
	16.0		2,700.0		Flush			5.00
					Surge			
	16.0		1,400.0		Over Flush			5.00
			600.0		ISIP			
TOTAL:						3,100.00	-	73.08

## SUMMARY

Max FI. Rate	Avg FI. Rate	Max PSI	Avg PSI
16.0	14.9	3,000.0	1,680.0

## PRODUCTS USED

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Treater: \_\_\_\_\_

Customer: \_\_\_\_\_