

Form	ACO1 - Well Completion
Operator	RJ Energy, LLC
Well Name	BRODMERKLE NORTH 21
Doc ID	1846238

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	11.75	7	20	20	portland	12	na
Production	5.875	2.875	6.5	984	pozmix	130	na

3613A Y Road
Madison, KS 66860
Ph: 620-437-2661
Fax: 620-437-2881



HURRICANE SERVICES INC

104 Prairie Plaza Parkway
Garnett, KS 66032
Ph: 785-448-3100
Fax: 785-448-3102

FED ID# 48-1214033
MC ID# 165290

Remit to: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202

Customer:

OWENS PETROLEUM
1274 202ND ROAD
YATES CENTER, KS 66783

Invoice Date: 1/9/2018
Invoice #: 0036278
Lease Name: BROADMERKLE
Well #: 21 & 22
County: WOODSON

Date/Description	HRS/QTY	Rate	Total
50191 Longstring New wells	0.000	0.000	0.00
Heavy Eq mileage one way	39.000	2.437	95.06
Light Eq mileage one way	39.000	1.125	43.88
Ton Mileage one way	455.000	0.975	443.63
Pump Truck 230	2.000	506.250	1,012.50
Cement Pozmix 70/30	260.000	10.275	2,671.50
Bentonite Gel	500.000	0.225	112.50
Mud Flush	500.000	0.750	375.00
Top rubber plug 2 7/8"	2.000	22.500	45.00

Net Invoice	4,799.07
Sales Tax: (7.50%)	203.74
Total	5,002.81

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

WE APPRECIATE YOUR BUSINESS!

OWENS PETROLEUM SERVICES, LLC DRILLER'S LOG

Operator: Owens Petroleum

Lease / Well #: Broadmarkle 21

API #: 15-207-29514

	Date		Date		Date		Date
Spud/Surface	12-4-17	Drilled to TD	1-4-18	Logged		1"/rods, pump	
Set Surface	12-14-17	Run Casing	1-4-18	Perforated		Lead Line/Elec	
Spud/Casing	1-3-18	Cemented LS	1-8-18	Frac/Acidized		Closed Pit	

Purpose	Size Drilled	Size Pipe	Weight #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	11"	7"	new	40	ashgrove	14	
Casing:	5 3/8	2 7/8		984			
Frac:							

Driller's TD: 1002 ft	Seat Nipple: 916 ft	Pipe TD: 984 ft	Fluid Volume: bbls
-----------------------	---------------------	-----------------	--------------------

Surface Bit and Subs: 3.70'

Kelly: Top of Groove to Square: 22.60'

Footage Above Ground Level: 1 Total

FOOTAGE:

FORMATION:

Bit and Sub	1.9	
1st Collar	19.9	
2nd Collar	20.0	41.8
Joints 20.05': 1	61.85	20.05
2	81.90	20.05
3	101.95	20.05
4	122.00	20.05
5	142.05	20.05
6	162.10	20.05
7	182.15	20.05
8	202.20	20.05
9	222.25	20.05
10	242.30	20.05
11	262.35	20.05
12	282.40	20.05
13	302.45	20.05
14	322.50	20.05
15	342.55	20.05
16	362.60	20.05
17	382.65	20.05
18	402.70	20.05
19	422.75	20.05
20	442.80	20.05
21	462.85	20.05
22	482.90	20.05
23	502.95	20.05
24	523.00	20.05
25	543.05	20.05

OPERATOR:

BR OE

LEASE/WELL#

BR 21

FOOTAGE:

FORMATION:

26	563.10	20.05	
27	583.15	20.05	
28	603.20	20.05	
29	623.25	20.05	
30	643.30	20.05	
31	663.35	20.05	698-700
32	683.40	20.05	
+5 33	703.45	20.05	721.731
34	723.50	20.05	
35	743.55	20.05	
36	763.60	20.05	
37	783.65	20.05	
38	803.70	20.05	800-
39	823.75	20.05	840-849
40	843.80	20.05	
41	863.85	20.05	863-867 878-880
42	883.90	20.05	
43	903.95	20.05	895-916.5
44	924.00	20.05	
45	944.05	20.05	916.5-919 shale
46	964.10	20.05	919-921 2nd cap
47	984.15	20.05	921-923 sand - show
48	1004.20	20.05	923-925 sand - show
49	1024.25	20.05	925-927 sand shale show
50	1044.30	20.05	927-929 shale
51	1064.35	20.05	929-931 shale
52	1084.40	20.05	
53	1104.45	20.05	SN 916
54	1124.50	20.05	
55	1144.55	20.05	My TD 1002
56	1164.60	20.05	
57	1184.65	20.05	931-935
58	1204.70	20.05	
59	1224.75	20.05	
60	1244.80	20.05	
61	1264.85	20.05	
62	1284.90	20.05	
63	1304.95	20.05	
64	1325.00	20.05	
65	1345.05	20.05	
66	1365.10	20.05	
67	1385.15	20.05	
68	1405.20	20.05	
69	1425.25	20.05	
70	1445.30	20.05	