

Miami County, KS
 Well:Chase 2
 Lease Owner:Chase Energy

Town Oilfield Service, Inc.
 (913) 837-8400

Commenced Spudding:
 07/31/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-17	soil/clay	17
14	sand	31
3	river rock	34
15	lime	49
20	shale	69
4	lime	73
39	shale	112
11	lime	123
1	shale	124
5	lime	129
9	shale	138
29	lime	167
6	shale	173
22	lime	195
5	shale	200
5	lime	205
1	shale	206
5	lime	211
25	shale	236
16	sandy shale	252
64	shale	316
9	sand	325
5	sandy shale	330
8	shale	338
12	sand	350
6	sand and shale	356
2	corral	358
11	lime and corral	369
18	sandy shale	387
25	shale	412
8	lime	420
11	shale	431
2	lime	433
13	shale	446
4	lime	450
22	shale	472
4	shale and corral	476
3	lime	474
3	sand and sandy shale	482
5	sand	487

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times .14 \times h$

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals $BPH \times PSI \times .0004$

BPH - barrels per hour

PSI - pounds square inch

TO FIGURE PUMP DRIVES

- * D - Diameter of Pump Sheave
- * d - Diameter of Engine Sheave
- SPM - Strokes per minute
- RPM - Engine Speed
- R - Gear Box Ratio
- *C - Shaft Center Distance

D - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times d$

R - $RPM \times D$ over $SPM \times d$

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{WATTS}{VOLTS} = AMPS$

746 WATTS equal 1 HP

Log Book

Well No. 2

Farm Chase

KS Miami
(State) (County)

26 17 21
(Section) (Township) (Range)

For Chase Energy
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
0-17	Soil-Clay	17	
14	Sand	31	
3	River Rock	34	
15	Lime	49	
20	Shale	69	
4	Lime	73	
39	Shale	112	
11	Lime	123	
1	Shale	124	
5	Lime	129	
9	Shale	138	
29	Lime	167	
6	Shale	173	
22	Lime	195	
5	Shale	200	
5	Lime	205	
1	Shale	206	
5	Lime	211	Flinty
25	Shale	236	
16	Sandy Shale	252	
64	Shale	316	
9	Sand	325	No Oil
5	Sandy Shale	330	
8	Shale	338	
12	Sand	350	Odor
6	Sand & Shale	356	No Oil
2	Coaral	358	

358

Thickness of Strata	Formation	Total Depth	Remarks
11	Lime & Corral	369	
18	Sandy Shale	387	
25	Shale	412	
8	Lime	420	
11	Shale	431	
2	Lime	433	
13	Shale	446	
4	Lime	450	
22	Shale	472	
4	Shale & Corral	476	Broken
3	Lime	479	Broken
3	Sand & Sandy Shale	482	Broken - Good Saturation - 50%
5	Sand	487	Solid - Good Saturation
12	Sand	499	Broken - Good Saturation - 50%
3	Sand	502	Broken - Good Saturation - 25%
6	Sandy Shale	508	Slight show
12	Sandy Shale	520	
60	Shale	580	TD

Town Oilfield Service

P.O Box 339 Louisburg, Ks 66053
913-837-8400

Ticket Number _____
Location _____
Foreman _____

Field Ticket & Treatment Report Cement

Date	Customer#	Well Name & Number	Section	Township	Range	County
8-4-14	Chase Energy	Chase#2	26	17	21	Miami
Customer		Mailing Address				
		City	State	Zip Code		

Job Type long string Hole Size 5 5/8 Hole Depth 580 Casing Size & Weight 27/8
 Casing Depth 563.5 Drill Pipe _____ Tubing _____ Other _____
 Displacement 4.6 Displacement PSI 800 Mix PSI 260 Rate 4 BPM

Remarks _____

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
		Pump Charge		800
		Cement Truck		250
		Water Truck		150
	126	Cement	10.50	1323
		Gel		0
		Plug		25
			Sales Tax	0
Estimated Total				2548.00

Authorization [Signature] Title Owner Date 8-4-14

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.