

Anderson County, KS
Well: Zastrow 23-HP
Lease Owner: Haas

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

Commenced Spudding:
7/8/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
16	Soil / Clay	161
48	Shale	64
29	Lime	93
13	Shale	106
3	Lime	109
3	Shale & Lime	112
1	Lime	113
46	Shale	159
12	Lime	171
7	Shale	178
37	Lime	215
7	Shale	222
21	Lime	243
4	Shale	247
23	Lime	270
4	Shale	274
3	Lime	277
6	Sandy Shale	283
18	Shale	301
4	Sand	305
5	Sandy Shale	310
15	Shale	325
15	Sandy Shale	340
57	Shale	397
9	Sand	406
4	Sandy Shale	410
23	Shale	433
2	Lime	435
6	Shale	441
3	Lime	444
3	Shale	447
11	Lime	458
8	Shale	466
10	Sand	476
4	Sandy Shale	480
8	Shale	488
7	Sand	495
6	Sandy Shale	501
6	Shale	507
2	Coal	509

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2	Lime	511
2	Shale	513
7	Lime	520
4	Shale	524
4	Lime	528
6	Shale	534
4	Lime	538
25	Shale	563
10	Lime	573
19	Shale	592
2	Lime	594
10	Shale	604
4	Lime	608
11	Shale	619
5	Sand	624
5	Sandy Shale	629
36	Shale	665
18	Sandy Shale & Sand	683
24	Shale	707
2	Lime	709
6	Shale	715
5	Sand	720
2	Sand	722
18	Core	740
3	Sand	743
2	Broken Sand	745
10	Sandy Shale	755
65	Shale	820-TD

