

Anderson County, KS
Well:Zastrow 19-HP
Lease Owner:Haas

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

Commenced Spudding:
7-23-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
12	soil/clay	12
30	shale	42
26	lime	68
16	shale	84
3	lime	87
3	shale & lime	90
2	lime	92
46	shale	138
10	lime	148
8	shale	156
37	lime	193
5	shale	198
22	lime	220
3	shale	223
24	lime	247
4	shale	251
3	lime	254
5	sandy shale	259
18	shale	277
4	sand	281
9	shale	290
7	sand	297
18	sandy shale	315
61	shale	376
7	sand	383
5	sandy shale	388
24	shale	412
2	lime	414
7	shale	421
2	lime	423
3	shale	426
9	lime	435
10	shale	445
7	sand	452
3	sandy shale	455
8	shale	463
9	sand	472
10	sandy shale	482
4	shale	486
2	coal	488

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8	lime	496
3	shale	499
3	lime	502
7	shale	509
4	lime	513
24	shale	537
10	lime	547
15	shale	562
3	lime	565
4	shale	569
2	lime	571
12	shale	583
3	lime	586
10	shale	596
4	sand	600
5	sandy shale	605
34	shale	639
21	sand & sandy shale	660
24	shale	684
2	lime	686
4	shale	690
5	sand	695
1	sand	696
7	sand	703
2	sand	705
2	sand	707
1	sand	708
5	sand	713
1	sand	714
1	sand	715
3	sand	718
1	broken sand	719
10	sandy shale	729
71	shale	800-TD

