

WELL NAME:	Waag 11				OPERATOR:	Extraction Oil and Gas	
FIELD:	Windsor - Wattenberg				FORMATION:	Niobrara	
SHL:	qtr-qtr	SENW	Section 19	Township 7N	Range 65W		
BHL:	qtr-qtr	NWSE	Section 24	Township 7N	Range 66W		
COUNTY:	Weld	STATE:	CO		API:	05-123-40360	

SURFACE CASING	
SIZE:	9 5/8"
WEIGHT:	36#
GRADE:	J-55
CONNECTION:	LTC
HOLE DEPTH:	879
CSG DEPTH:	879
INCL @ SHOE:	1°
CEMENT:	390 sx
TOC:	Surface
HOLE SIZE:	13 1/2"

INTERMEDIATE CASING	
SIZE:	7"
WEIGHT:	26#
GRADE:	P-110
CONNECTION:	LTC
HOLE DEPTH:	7,570
CSG DEPTH:	7,550
INCL @ SHOE:	87°
CEMENT:	487 sx
	347 sx
TOC:	Surface
HOLE SIZE:	8 3/4"

GROUND LEVEL:	4885'
KELLY BUSHING:	24"
SPUD DATE:	5/28/2015
COMP DATE:	11/6/2015

PRODUCTION LINER	
SIZE:	4 1/2"
WEIGHT:	13.5#
GRADE:	P-110
CONNECTION:	TXP/BTC
HOLE DEPTH:	11,960
LINER TOP:	7,386
INCL @ LT:	80°
LINER SHOE:	11,872
CEMENT:	Open hole
TOC:	-
HOLE SIZE:	6 1/8"

PRODUCTION TUBING	
SIZE:	2 3/8"
WEIGHT:	4.7#
GRADE:	J-55
DEPTH:	7,205'
INCL @ EOT:	50°



9 5/8" csg @
879' (1° incl)

KOP - 6600'

EOT @ 7,205" (50° incl)

Liner Top @ 7386' (80° incl)

8 3/4" hole @ 7570'
7" csg @ 7550' (87° incl)

Stage	Packer Depth	Sleeve Depth	Sleeve ID	Stage Length	Stage	Packer Depth	Sleeve Depth	Sleeve ID	Stage Length
1	11,776	11,872	1.480	184	25	8,060	8,155	3.280	139
2	11,643	11,735	1.535	133	26	7,891	7,977	3.405	169
3	11,465	11,559	1.590	178	27	7,760	7,849	3.530	132
4	11,336	11,424	1.645	128	28	7,595	7,685	3.655	164
5	11,161	11,254	1.700	176	29				
6	10,994	11,083	1.755	167	30				
7	10,864	10,952	1.830	130	31				
8	10,692	10,783	1.905	172	32				
9	10,554	10,646	1.980	138	33				
10	10,386	10,473	2.055	169	34				
11	10,254	10,342	2.130	132	35				
12	10,081	10,172	2.205	173	36				
13	9,906	10,000	2.280	175	37				
14	9,776	9,862	2.355	130	38				
15	9,604	9,696	2.430	172	39				
16	9,474	9,561	2.505	130	40				
17	9,313	9,397	2.580	162	41				
18	9,137	9,230	2.655	176	42				
19	9,005	9,094	2.730	132	43				
20	8,829	8,923	2.805	176	44				
21	8,705	8,786	2.880	124	45				
22	8,537	8,628	2.955	168	46				
23	8,369	8,454	3.030	168	47				
24	8,199	8,284	3.155	170	48				

156' Avg Stage Length

Frac Stimulation		
Total Fluid:	52,098	bbls
Total Sand:	5,606,207	lbs 40/70
		lbs 20/40 white
		lbs 20/40 resin
	5,606,207	lbs
	1271	lbs/ft

Completion Notes
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Liner Shoe @ 11872'

MD	11,960
TVD	7,250

28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1