

WELL NAME:	Waag 5					OPERATOR:	Extraction Oil and Gas				
FIELD:	Windsor - Wattenberg					FORMATION:	Niobrara				
SHL:	qtr-qtr	NENW	Section 19	Township 7N	Range 65W						
BHL:	qtr-qtr	NWNE	Section 24	Township 7N	Range 66W						
COUNTY:	Weld	STATE:	CO			API:	05-123-40341				

SURFACE CASING	
SIZE:	9 5/8"
WEIGHT:	36#
GRADE:	J-55
CONNECTION:	LTC
HOLE DEPTH:	887
CSG DEPTH:	887
INCL @ SHOE:	1°
CEMENT:	675 sx
TOC:	Surface
HOLE SIZE:	13 1/2"

INTERMEDIATE CASING	
SIZE:	7"
WEIGHT:	26#
GRADE:	P-110
CONNECTION:	LTC
HOLE DEPTH:	7,595
CSG DEPTH:	7,578
INCL @ SHOE:	89°
CEMENT:	479 sx lead
	451 sx tail
TOC:	Surface
HOLE SIZE:	8 3/4"

GROUND LEVEL:	4,902'
KELLY BUSHING:	17.0'
SPUD DATE:	2/17/2015
COMP DATE:	

PRODUCTION LINER	
SIZE:	4 1/2"
WEIGHT:	13.5#
GRADE:	P-110
CONNECTION:	TXP
HOLE DEPTH:	11,919
LINER TOP:	7,427
INCL @ LT:	75°
LINER SHOE:	11,824
CEMENT:	Open hole
TOC:	-
HOLE SIZE:	6 1/8"

PRODUCTION TUBING	
SIZE:	
WEIGHT:	
GRADE:	
DEPTH:	
INCL @ EOT:	

Stage	Packer Depth	Sleeve Depth	Sleeve ID (inch)	Stage Length	Stage	Packer Depth	Sleeve Depth	Sleeve ID (inch)	Stage Length
1	11,735	11,824	1.480	184	25	8,052	8,150	3.280	145
2	11,589	11,688	1.535	146	26	7,909	8,008	3.405	143
3	11,444	11,543	1.590	145	27	7,765	7,862	3.530	144
4	11,304	11,397	1.645	140	28	7,620	7,718	3.655	145
5	11,123	11,216	1.700	181	29				
6	10,980	11,078	1.755	143	30				
7	10,835	10,933	1.830	145	31				
8	10,649	10,746	1.905	186	32				
9	10,504	10,602	1.980	145	33				
10	10,363	10,457	2.055	141	34				
11	10,222	10,320	2.130	141	35				
12	10,038	10,136	2.205	184	36				
13	9,895	9,993	2.280	143	37				
14	9,750	9,848	2.355	145	38				
15	9,608	9,707	2.430	142	39				
16	9,429	9,523	2.505	179	40				
17	9,286	9,384	2.580	143	41				
18	9,142	9,240	2.655	144	42				
19	9,000	9,095	2.730	142	43				
20	8,811	8,910	2.805	189	44				
21	8,669	8,764	2.880	142	45				
22	8,528	8,622	2.955	141	46				
23	8,383	8,482	3.030	145	47				
24	8,197	8,293	3.155	186	48				

154' Avg Stage Length

Frac Stimulation	
Total Fluid:	bbbls
Total Sand:	lbs 40/70
	lbs 20/40 white
	lbs 20/40 resin
	- lbs
	0 lbs/ft

Completion Notes	
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Liner Shoe @ 11824'	
MD	11,919
TVD	7,209



9 5/8" csg @ 887' (1° incl)

KOP - 6,945'

EOT @ ' (incl)

Liner Top @ 7427' (75° incl)

8 3/4" hole @ 7595'
7" csg @ 7578' (89° incl)

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