

WELL NAME:	Thornton 12					OPERATOR:	Extraction Oil & Gas				
FIELD:	Thornton - Wattenberg					FORMATION:	Niobrara B Bench				
SHL:	qtr-qtr	SWSW	Section 8	Township 7N	Range 66W						
BHL:	qtr-qtr	SESE	Section 9	Township 7N	Range 66W						
COUNTY:	Weld		STATE:	CO		API:	05-123-40264				

SURFACE CASING	
SIZE:	9 5/8"
WEIGHT:	36#
GRADE:	J-55
CONNECTION:	LTC
HOLE DEPTH:	843
CSG DEPTH:	799
INCL @ SHOE:	12.5°
CEMENT:	365 sx, 14.2 ppg
TOC:	Surface
HOLE SIZE:	13 1/2"

INTERMEDIATE CASING	
SIZE:	7"
WEIGHT:	26#
GRADE:	P-110
CONNECTION:	BTC
HOLE DEPTH:	8,035
CSG DEPTH:	8,014
INCL @ SHOE:	86°
CEMENT:	505 sx lead 357 sx tail
TOC:	Surface
HOLE SIZE:	8 3/4"

TIE-BACK STRING	
SIZE:	
WEIGHT:	
GRADE:	
CONNECTION:	
CSG DEPTH:	

GROUND LEVEL:	5,039'
KELLY BUSHING:	24.0'
SPUD DATE:	12/29/2014
COMP DATE:	

PRODUCTION LINER	
SIZE:	4 1/2"
WEIGHT:	13.5#
GRADE:	P-110
CONNECTION:	BTC
HOLE DEPTH:	17,431
LINER TOP:	7,037
INCL @ LT:	5°
LINER SHOE:	17,425
CEMENT:	960 sx
TOC:	7,037
HOLE SIZE:	6 1/8"

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

Stage	Plug Depth	Perf Cluster 1	Perf Cluster 2	Perf Cluster 3	Perf Cluster 4	Perf Cluster 5	Total ft of Perfs	SPF	# of Holes	Stage Length	Fluid (bbl)	Sand (lbs)	Stage	Plug Depth	Perf Cluster	Perf Cluster 2	Perf Cluster	Perf Cluster	Perf Cluster 5	Total ft of Perfs	SPF	# of Holes	Stage Length	Fluid (bbl)	Sand (lbs)
1		11920-25	11905-10	11895-200	11880-85	11860-65	25	6	150	5,931															
2	11,500									250															
3	11,250									250															
4	11,000									105															
5	10,895									105															
6	10,790									105															
7	10,685									105															
8	10,580									105															
9	10,475									105															
10	10,370									105															
11	10,265									105															
12	10,160									105															
13	10,055									105															
14	9,950									105															
15	9,845									105															
16	9,740									105															
17	9,635									105															
18	9,530									105															
19	9,425									105															
20	9,320									105															

427' Avg Stage Length

Frac Stimulation

Total Fluid:	bbls
Total Sand:	lbs 40/70
	lbs 30/45 white
	lbs 20/40 resin
	- lbs
	0 lbs/ft

Completion Notes

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Liner Shoe @ 17425'

MD	17,431
TVD	7,571



9 5/8" csg @ 799' (12.5° incl)

EOT @ ' ( incl)

Liner Top @ 7037' (5° incl)

8 3/4" hole @ 8035'  
7" csg @ 8014' (86° incl)

KOP - 6,477'

62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 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