

WELL NAME:	CFM - RAY #13-20					OPERATOR:	8 North LLC	
FIELD:	Grover					FORMATION:	J Sand	
SHL:	qtr-qtr	SWSW	Section	20	Township	11N	Range	61W
BHL:	qtr-qtr	SWSW	Section	20	Township	11N	Range	61W
COUNTY:	Weld		STATE:	CO		API:	05-123-23365	

not to scale	
GROUND LEVEL:	5125'
KELLY BUSHING:	5135'
SPUD DATE:	11/22/2005
TD DATE:	11/27/2005

8 5/8" csg @
410'

SURFACE CASING	
SIZE:	8 5/8"
WEIGHT:	--
HOLE SIZE:	12 1/4"
HOLE DEPTH:	404'
CSG DEPTH:	410'
CEMENT:	285 sx
TOC:	Surface

PRODUCTION CASING	
SIZE:	4 1/2"
WEIGHT:	--
HOLE SIZE:	7 7/8"
TOTAL DEPTH MD	7752'
CSG DEPTH:	7752'
CEMENT:	200 sx
TOC:	6450'

PRODUCTION TUBING	
SIZE:	2 3/8"
WEIGHT:	4.5#
DEPTH:	7689'

EOT @ 7689'

FORMATION TOPS & PERFORATIONS	
J SAND MD	7608'
PERFORATIONS	7612'-7642'

FRAC DATA

3202 BBL SLICK & GELLED FLUID
221560 # 20/40 SAND
4000 # 100 MESH

Production Csg @ 7752'
MD 7752'