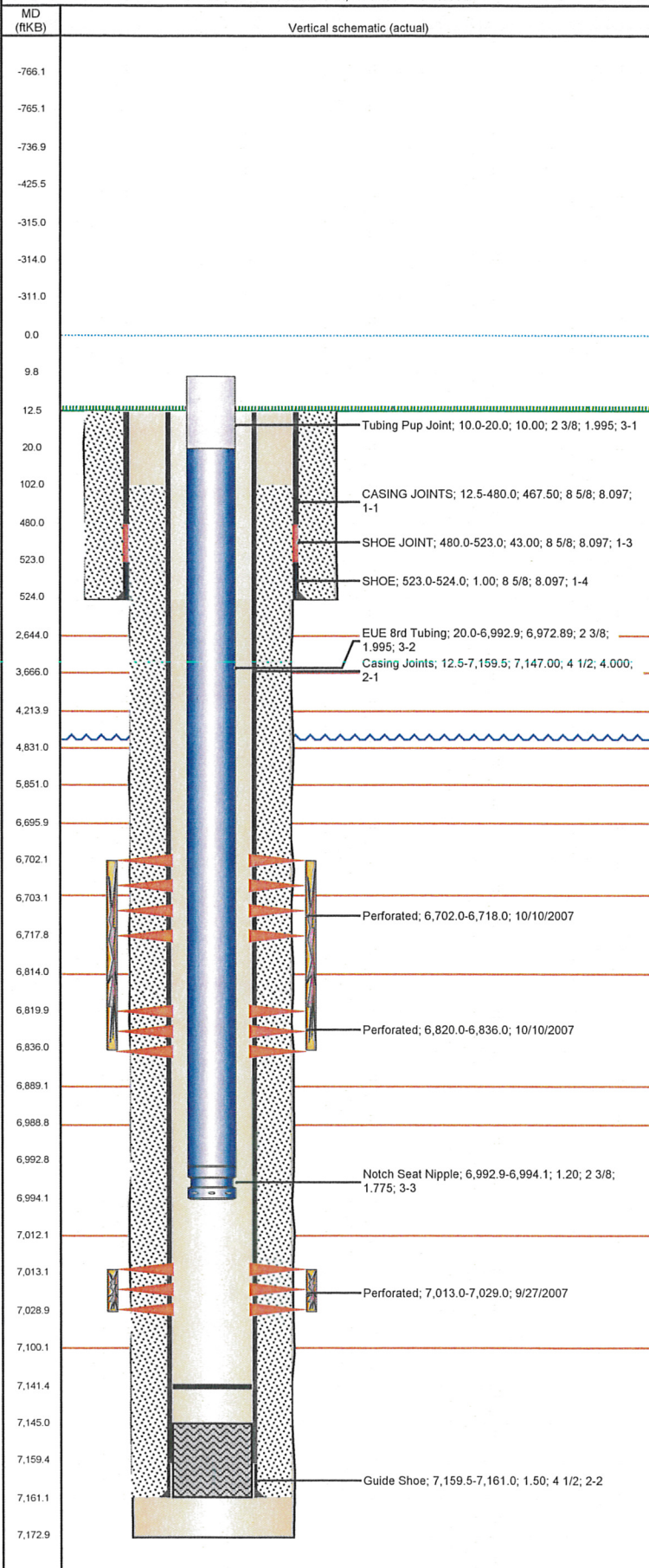


# Frac Wellbore Schematic Report

Well Name: ATREYU F34-23

VERTICAL - ORIGINAL HOLE, 6/21/2012 11:10:01 AM



## Well Header

API	Business Unit	District	Well Config
05-123-24705	WATTENBERG	15	VERTICAL
Original KB Elevation (ft)	KB - GL / MSL (ftKB)	Spud Date	P & A Date
4,672.50	12.50	9/2/2007	
Comment			

## Directions To Well

WCR 43 & 50, NORTH 0.5, EAST 1.0, SOUTHWEST 0.3, SOUTH INTO.

## Current PBTD (ftKB)

ORIGINAL HOLE - 7,141.4

## Surface Location (Congressional)

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Twnshp N...	Range	Rng E/W Dir
		NE	SE	34	5	N	65	W

## Bottom Hole Location

North-South Distance (ft)	From N or S Line	East-West Distance (ft)	From E or W Line

## Plug Back Total Depths

Date	Depth (ftKB)	Method	Com
9/6/2007	7,145.0	CASING TALLY	FLOAT COLLAR
9/13/2007	7,132.0	CASED HOLE LOG	DEPTH LOGGER ON CBL

## Wellbore Sections

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	12.5	524.0
PRODUCTION	7 7/8	524.0	7,173.0

## Zone Statuses

Zone Name	Status Date	Status	Job
CODELL	11/6/2007	PR	DRILLING/COMPLETION - ORIGINAL, 9/2/2007 00:00
CODELL	1/16/2012	PR	RE-FRAC, 11/9/2011 09:00
NIOBRARA	11/6/2007	PR	DRILLING/COMPLETION - ORIGINAL, 9/2/2007 00:00

## Casing Strings

Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)
Surface	9/3/2007	8 5/8	24.00	J-55	12.5	524.0
Production	9/6/2007	4 1/2	11.60	M-80	12.5	7,161.0

## Cement

Des	Top (ftKB)	Btm (ftKB)
SURFACE CEMENT	12.5	524.0
PRODUCTION CEMENT	102.0	7,161.0

## Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)
Tubing Pup Joint	2 3/8	4.70	J-55	1	10.00
EUE 8rd Tubing	2 3/8	4.70	J-55	228	6,972.89
Notch Seat Nipple	2 3/8	4.70	N-80	1	1.20

## Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	64	6,702.0	6,718.0	10/10/2007
NIOBRARA, ORIGINAL HOLE	B	64	6,820.0	6,836.0	10/10/2007
CODELL, ORIGINAL HOLE		64	7,013.0	7,029.0	9/27/2007

## Stimulations & Treatments

Bnch/Stg	Date	Zone	Primary Job Type
	10/10/2007	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Comment			

Total Add Amount	Total Clean Volume...	Vol Slurry Tot (gal)	Vol Gas Tot (MCF)
Proppant Ottawa 270820 lb		130368.00	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
3,409.0	3,964.0	24.70	25.60

Bnch/Stg	Date	Zone	Primary Job Type
	10/10/2007	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Comment			

Total Add Amount	Total Clean Volume...	Vol Slurry Tot (gal)	Vol Gas Tot (MCF)
Proppant 250540 lb		169806.00	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
4,650.0	4,990.0	52.30	52.50

Well Name: ATREYU F34-23

VERTICAL - ORIGINAL HOLE, 6/21/2012 11:10:02 AM

## Stimulations & Treatments

Brch/Stg	Date	Zone	Primary Job Type	
	12/1/2011	CODELL, ORIGINAL HOLE	RE-FRAC	
Comment (CODELL REFRAC): JOB WENT AS PLANNED 5 MIN SIP 2933				
Total Add Amount		Total Clean Volume...	Vol Slurry Tot (gal)	Vol Gas Tot (MCF)
Ottawa 0; Proppant Ottawa 250783.201 lb		129631.74	141020.46	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)	
5,752.0	7,133.0	18.80	19.40	

## Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)
9/5/2007	Compensated Density	2,500.0	7,150.0
9/5/2007	DIFL/DENS/GR/GRD/CAL	524.0	7,180.0
9/13/2007	CBL/CCL/GR	10.0	7,125.0

