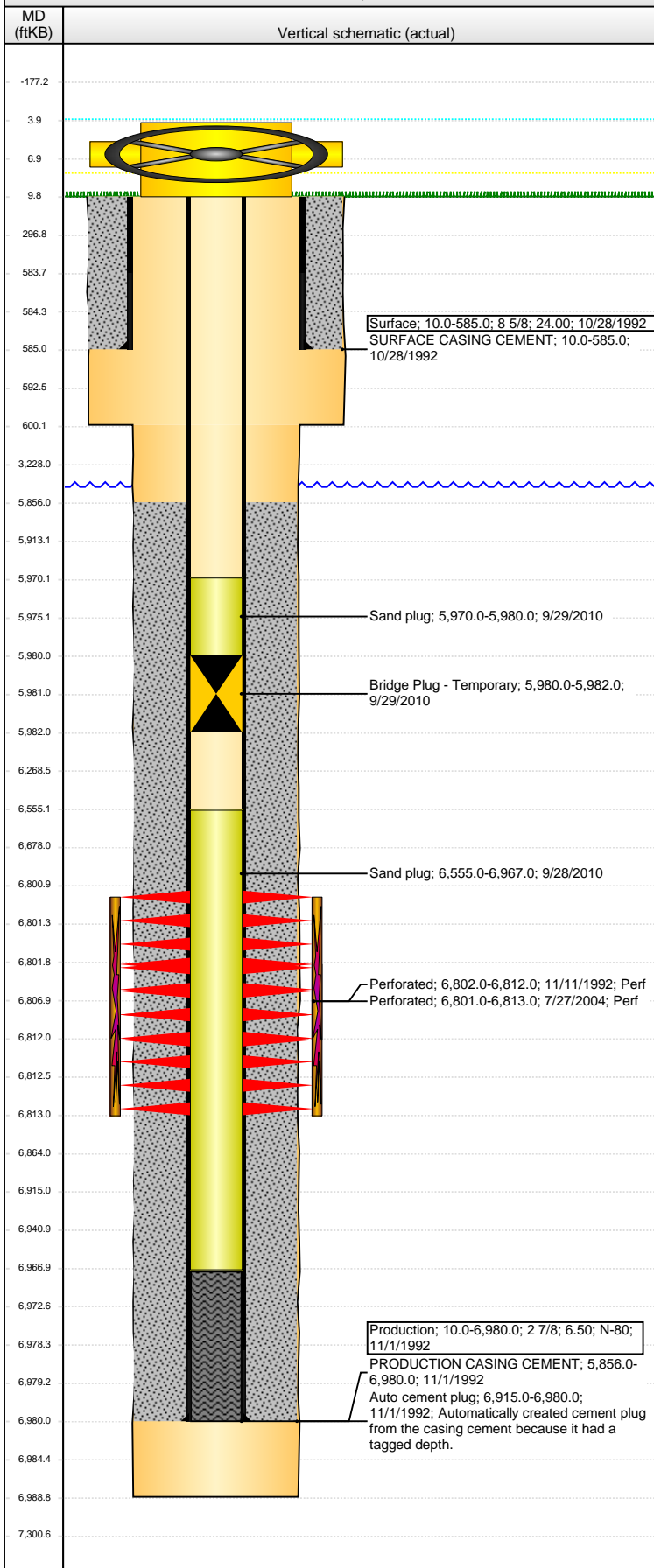


Well Name: KARCH BLUE DD18-12

VERTICAL - ORIGINAL HOLE, 3/17/2014 2:57:01 PM



Well Header

API	Business Unit	District	Well Config
05-123-16228	WATTENBERG	15	VERTICAL
Original KB Elevation (ft)	KB - GL / MSL (ftKB)	Spud Date	P & A Date
4,781.00	10.00	10/27/1992	

Comment

HOLE IN CASING

Directions To Well

WCR 59 & WCR 398, NORTH EAST 4.1 MILES TO GUTTERSEN ARCH, NORTH WEST 5 MILES, EAST 0.1 MILES, NORTH EAST 0.3 MILES, NORTH 0.5 MILES, EAST 0.1 MILES INTO (GATE 7777)

Congressional Location

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Twntshp N...	Range	Rng E/W Dir
	NW	SW		18	3	N	63	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
11/1/1992	6,915.0	CASING TALLY	GUIDE SHOE
10/19/1993	7,185.0	CASED HOLE LOG	DEPTH-LOGGER/CBL
7/26/2004	6,967.0	TAG	FILL

Wellbore Sections

Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	10.0	600.0
PRODUCTION	7 7/8	600.0	6,989.0

Zone Statuses

Zone Name	Status Date	Status	Job
CODELL	12/5/1992	PR	DRILLING/COMPLETION - ORIGINAL, 10/27/1992 00:00
CODELL	11/8/2004	PR	RE-FRAC, 7/23/2004 00:00
CODELL	9/28/2010	SI	RECOMPLETION, 9/28/2010 10:00

Casing Strings

Surface, 585.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Surface	10/28/1992	8 5/8	24.00		10.0	585.0

Production, 6,980.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Production	11/1/1992	2 7/8	6.50	N-80	10.0	6,980.0

Cement

Description	Top Depth (ftKB)	Bottom Depth (ftKB)
SURFACE CASING CEMENT	10.0	585.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
PRODUCTION CASING CEMENT	5,856.0	6,980.0

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)

Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
CODELL, ORIGINAL HOLE		48	6,801.00	6,813.00	7/27/2004
CODELL, ORIGINAL HOLE		40	6,802.00	6,812.00	11/11/1992

Stimulations & Treatments

Date	Zone	Primary Job Type
11/12/1992	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note

Comment

Date	Zone	Primary Job Type
8/4/2004	CODELL, ORIGINAL HOLE	RE-FRAC
Technical Result	Tech Result Details	Tech Result Note

Comment

Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
9/28/2010	Sand plug	2 1/2	6,555.0	6,967.0
9/29/2010	Sand plug	2 1/2	5,970.0	5,980.0
9/29/2010	Bridge Plug - Temporary	2 1/2	5,980.0	5,982.0

Well Name: KARCH BLUE DD18-12

VERTICAL - ORIGINAL HOLE, 3/17/2014 2:57:02 PM

Logs

Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
11/1/1992	COMPENSATED DENSITY	4,150.0	6,968.0
11/1/1992	INDUCTION	4,150.0	6,960.0
11/11/1992	CEMENT BOND	5,750.0	6,915.0

