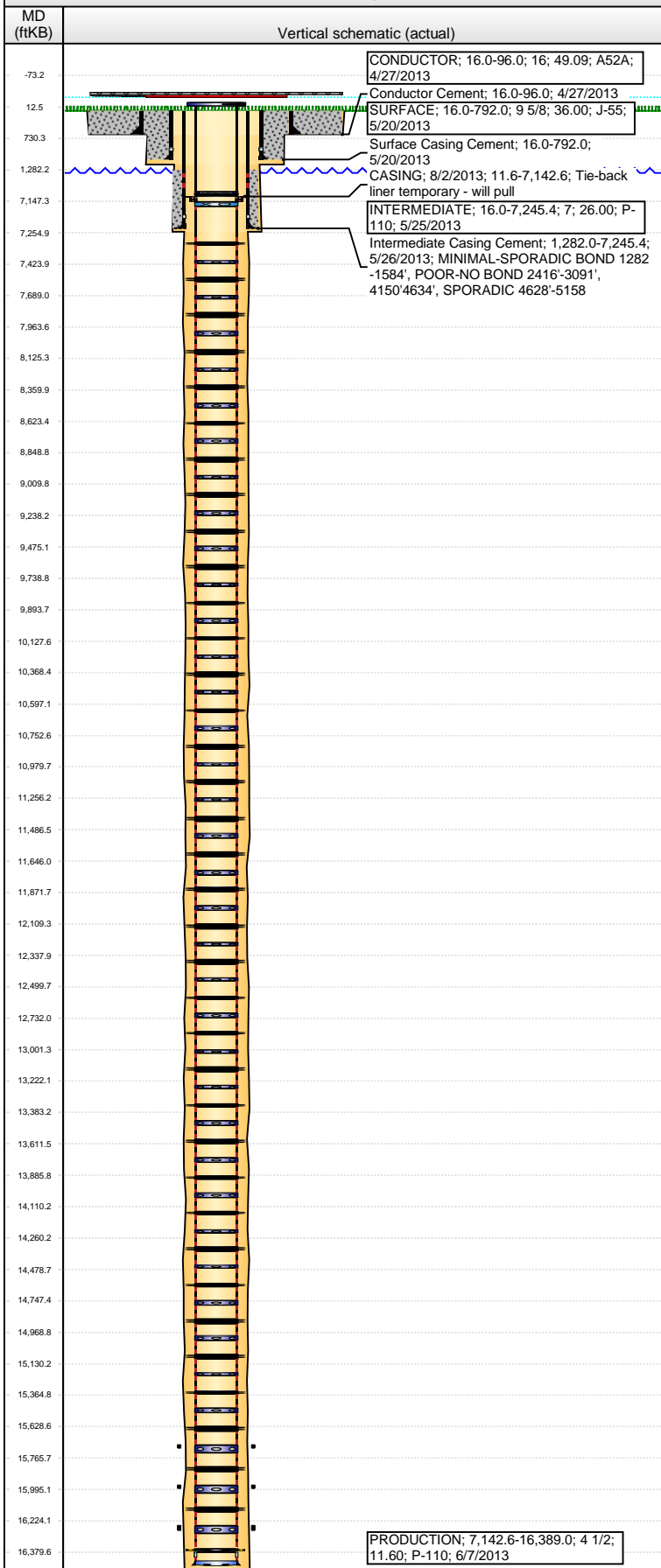


**Well Name: SHABLE USX PC AB11-63-1HNL**

HORIZONTAL - ORIGINAL HOLE, 4/25/2014 8:43:46 AM



## Well Header

API	Business Unit	District	Well Config
05-123-36701	WATTENBERG	15	HORIZONTAL
Original KB Elevation (ft)	KB - GL / MSL (ftKB)	Spud Date	P & A Date
4,834.00	16.00	5/20/2013	

**Comment**  
TEMPORARILY SHUT-IN/ABANDONED;FRAC FAILED DUE TO CASING MECHANICAL PROBLEMS; WILL ASSESS, PLUG & HAND OFF TO ERS FOR SCIENTIFIC EVALUATION

**Directions To Well**  
CR 88 & CR 57, EAST 1 MILE, SOUTH 2 MILES, WEST 1 MILE, SOUTH .75 MILES, EAST INTO LOCATION

## Congressional Location

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Twntshp N...	Range	Rng E/W Dir
		SW	SW	11	7	N	64	W

## Bottom Hole Location

North-South Distance (ft)	From N or S Line	East-West Distance (ft)	From E or W Line
990.0	FSL	535.0	FEL

## Plug Back Total Depths

Date	Depth (ftKB)	Method	Com
6/7/2013	16,379.5	CASING TALLY	FLOAT COLLAR

## Wellbore Sections

Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
CONDUCTOR	26	16.0	96.0
SURFACE	13 3/4	96.0	802.0
INTERMEDIATE	8 3/4	802.0	7,255.0
LATERAL	6 1/8	7,255.0	16,399.0

## Zone Statuses

Zone Name	Status Date	Status	Job

## Casing Strings

### CONDUCTOR, 96.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
CONDUCTOR	4/27/2013	16	49.09	A52A	16.0	96.0

### SURFACE, 792.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
SURFACE	5/20/2013	9 5/8	36.00	J-55	16.0	792.0

### INTERMEDIATE, 7,245.4ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
INTERMEDIATE	5/25/2013	7	26.00	P-110	16.0	7,245.4

### PRODUCTION, 16,389.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
PRODUCTION	6/7/2013	4 1/2	11.60	P-110	7,142.6	16,389.0

## Cement

Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Conductor Cement	16.0	96.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Surface Casing Cement	16.0	792.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Intermediate Casing Cement	1,282.0	7,245.4

## Tubing Components

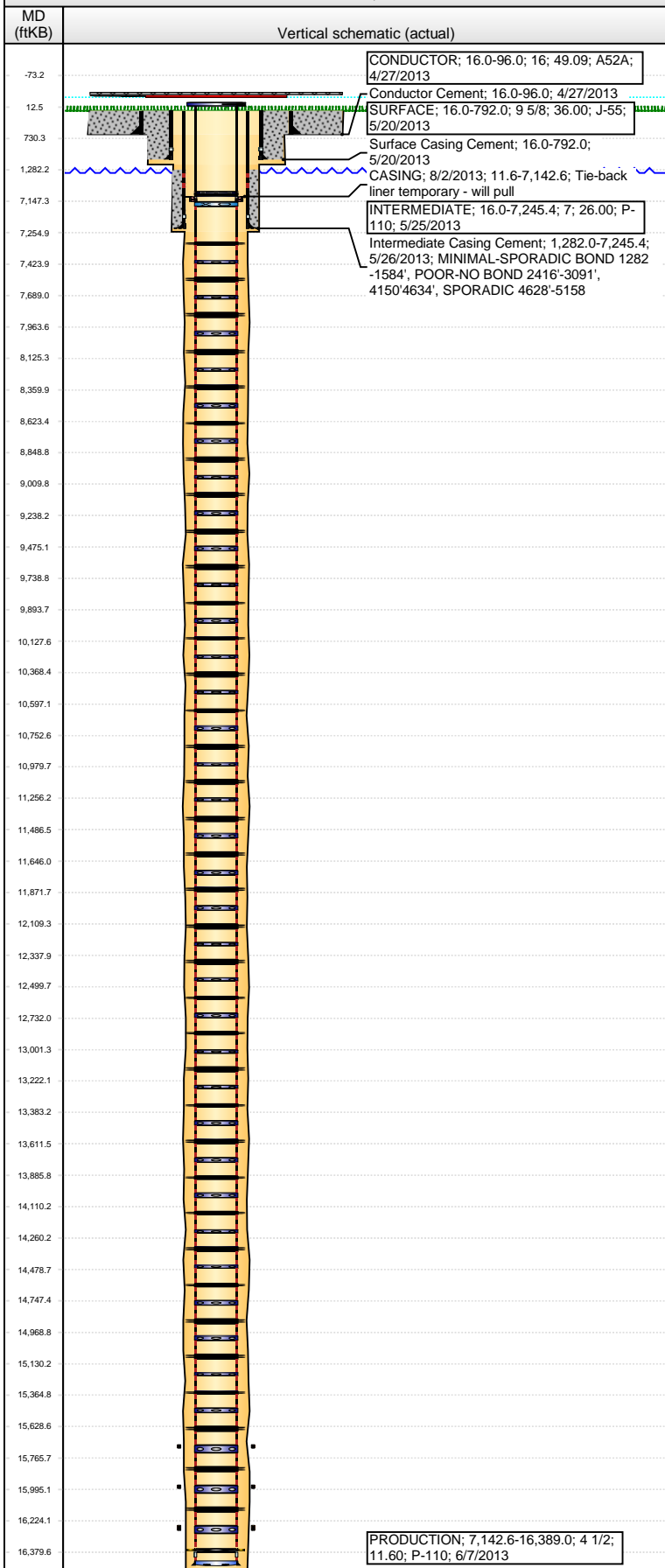
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
Mandrel	6	0.00	X	1	0.80	12.4	12.4
CASING	4 1/2	11.60	P110	1	42.65	55.0	55.0
PUP JT	4 1/2	11.60	P110	3	21.20	76.2	76.2
CASING	4 1/2	11.60	P110	169	7,059.58	7,135.8	6,854.6
Seal Assembly/WITH 3' PUP	4 1/2	11.60	P110	1	6.78	7,142.6	6,856.3

## Perforation Data

Zone	Brnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date

**Well Name: SHABLE USX PC AB11-63-1HNL**

HORIZONTAL - ORIGINAL HOLE, 4/25/2014 8:43:47 AM



## Stimulations & Treatments

Date	Zone	Primary Job Type
8/26/2013	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note
Failure	Mechanical	

Comment  
(36 STAGE NIO HORIZONTAL)

OPENED WELLHEAD AT 11:29 ON 8-26-2013, 295 PSI, 0 PSI ON SURFACE.

INTERVAL 1)-SHUT DOWN TO DROP THE 1.5 BALL. ISIP 3140 PSI. FG 0.84 PSI/FT.

INTERVAL 2) - SHUT DOWN 45 BBLS OVER BALL SEAT VOLUME. WE DID NOT SEE ANY BALL SIGNATURE. BAKER HUGHES HAD US COME OFF LINE (ISIP= 3040 PSI), AND COME BACK UP AT 13 BPM, STILL NO SIGNATURE. CAME BACK OFFLINE, ISIP=3142 PSI. BAKER HUGHES TOOL HAND HAD US BACK UP AT 16 BPM. WE FINALLY GOT A 28 PSI INCREASE. RETURNED TO PUMPING SCHEDULE. DURING 0.35 LB SAND THE INLINE DENSO WAS NOT READING CORRECTLY. WENT THROUGH 0.35 LB USING THE BLENDER DENSO AND THEY RECALIBRATED DURING PAD. CALLED FOR A NEW INLINE DENSO. CURRENTLY IT IS SILL WORKING, BUT WILL HAVE THE NEW ONE ON LOCATION INCASE OF TOTAL FAILURE. WE WERE IN 3 LB SAND FRACING AT 7240 PSI AND HAD A 3611 PSI DROP. NO BACKSIDE CHANGE OR SURFACE CHANGE. CALLED GREG AND EMAILED CHARTS TO GREG. OFFICE MADE DECISION TO DROP BALL FOR INTERVAL 3. PUMPED 50BBLS OF CROSSLINK DROPPED BALL THEN PUMPED ANOTHER 50BBLS OF CROSSLINK PRIOR TO SWAPPING TO SLICKWATER. PUMPED 215 BBLS OVER CAPACITY TO SLEEVE 3 BUT NO BALL SIGNATURE SEEN. OFFICE HAD FRAC CREW RIG DOWN AND MOVE TO NEXT WELL. SHUT DOWN 17:71 ON 8/26/2013 ISIP = 3,065 PSI, 15 MINUTE 2,988 PSI.

## Other In Hole

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

## Logs

Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
5/3/2013	MWD GAMMA - MD	1,000.0	16,398.0
5/3/2013	MWD GAMMA - TVD	1,000.0	6,890.0
6/2/2013	MUD LOG - HZ	6,100.0	16,399.0
6/2/2013	MUD LOG - VERT	800.0	6,320.0
6/12/2013	CBL/CCL/GR	24.0	7,162.0
7/11/2013	GYRO	16.0	6,540.0