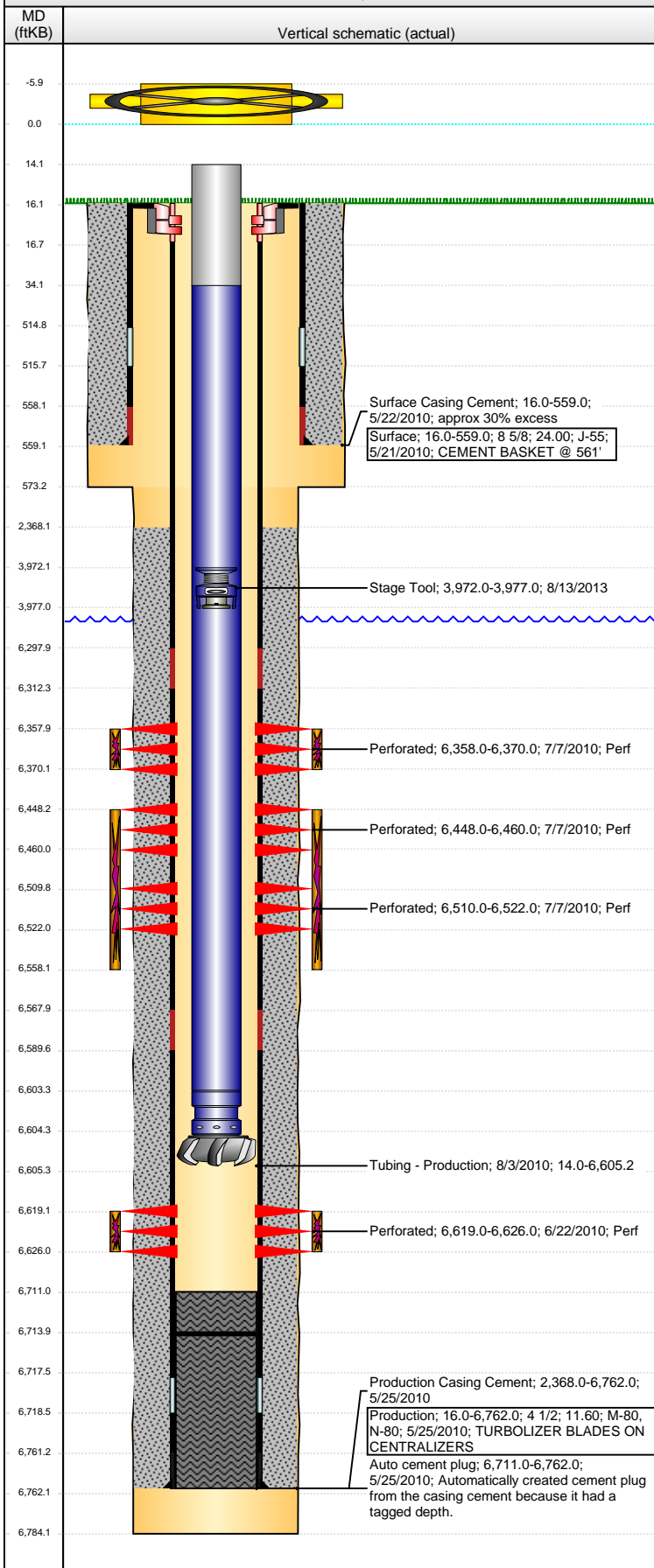


Well Name: WELLS RANCH AE32-05

VERTICAL - ORIGINAL HOLE, 10/6/2015 1:44:29 PM



Well Header

API 05-123-30489	Business Unit DJ BASIN	District 15	Well Config VERTICAL
Original KB Elevation (ft) 4,749.00	KB - GL / MSL (ftKB) 16.00	Spud Date 5/21/2010	P & A Date

Comment

THIS WELL WAS FRAC'D INTO BY WELLS RNCH AE32-03 7/2010.

Directions To Well

WCR 67 & 68; EAST 0.2 MILES, SOUTH 1.75 MILES, EAST 2.75 MILES, SOUTH 0.5 MILES, EAST 0.1 MILES, SOUTHWEST INTO LOCATION.

Congressional Location

Quarter 1	Quarter 2	Quarter 3 SW	Quarter 4 NW	Section 32	Township 6 N	Twnshp N...	Range 62 W	Rng E/W Dir
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Bottom Hole Location

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

Date	Depth (ftKB)	Method	Com
5/25/2010	6,717.0	CASING TALLY	FLOAT COLLAR
6/4/2010	6,711.0	CASED HOLE LOG	CEMENT PLUG
8/3/2010	6,714.0	TUBING TALLY	DRILL 2 COMPOSITE PLUGS W/ CUTRITE BIT AN...

Wellbore Sections

Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	16.0	573.0
PRODUCTION	7 7/8	573.0	6,784.0

Zone Statuses

Zone Name	Status Date	Status	Fluid Type	Job	Prod Method
CODELL	7/9/2010	PR		DRILLING/CO...	
NIOBRARA	7/9/2010	PR		DRILLING/CO...	

Casing Strings

Surface, 559.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Surface	5/21/2010	8 5/8	24.00	J-55	16.0	559.0

Production, 6,762.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Production	5/25/2010	4 1/2	11.60	M-80	16.0	6,762.0

Cement

Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Surface Casing Cement	16.0	559.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Production Casing Cement	2,368.0	6,762.0

Tubing Strings

Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing - Production	8/3/2010	2 3/8	1.995	4.70	J-55	6,591.20	6,602.7

Tubing Components

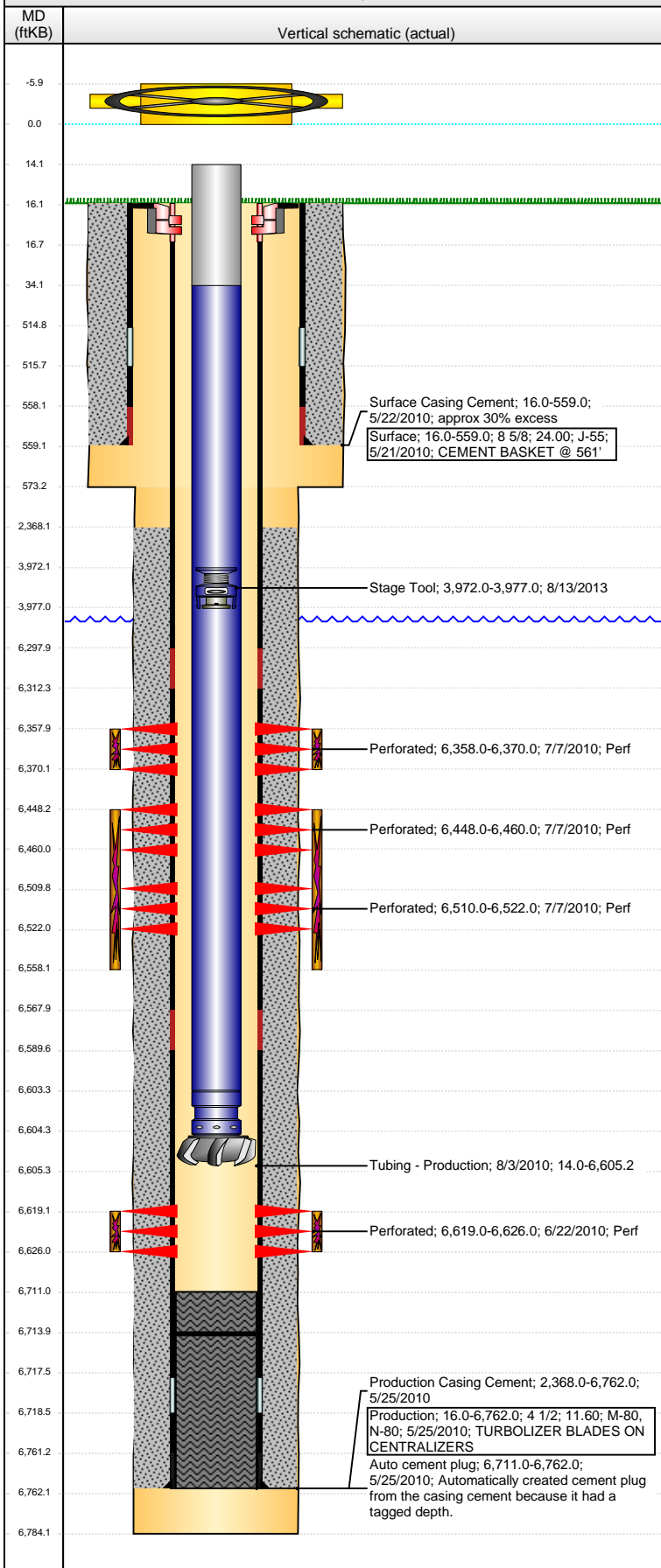
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
Tubing Pup Joint	2 3/8	4.70	J-55	2	20.00	34.0	
Tubing	2 3/8	4.70	J-55	215	6,569.35	6,603.4	
Pump Seating Nipple	2 3/8			1	1.10	6,604.5	6,602.0
BCutrite lade Bit	3 7/8			1	0.75	6,605.2	6,602.7

Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	12	6,358.00	6,370.00	7/7/2010
NIOBRARA, ORIGINAL HOLE	B	12	6,448.00	6,460.00	7/7/2010
NIOBRARA, ORIGINAL HOLE	C	12	6,510.00	6,522.00	7/7/2010
CODELL, ORIGINAL HOLE		28	6,619.00	6,626.00	6/22/2010

Well Name: WELLS RANCH AE32-05

VERTICAL - ORIGINAL HOLE, 10/6/2015 1:44:32 PM



Stimulations & Treatments

Date	Zone	Primary Job Type
7/7/2010	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	

Comment
THIS WELL WAS FRAC'D INTO BY WELLS RNCH AE32-03 7/2010.

(CODELL): PO 19, NWB 129 PSI, WB 238 PSI, PPF 93 PSI FOR A TOTAL OF 460 PSI OF FRICTION. DENSITY WAS BOUNCING, APPARENTLY CREW HAVING ISSUES WITH TUB LEVELER ON BLENDER TUB. AVG VISC 29.7 CPS. AVG TEMP 70.6F, AVG PH 10.23, AVG PRESS 2885 PSI, AVG RATE 22.7 BPM. POST JOB 5 MIN OF 2645 PSI.

Date	Zone	Primary Job Type
7/7/2010	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	

Comment
THIS WELL WAS FRAC'D INTO BY WELLS RNCH AE32-03 7/2010.

(NIO BC): DROPPED RATE TO RUN ACID CORRECTLY. TREATMENT WENT WELL, NO ISSUES TO REPORT. AVG VISC 23.7 CPS, AVG TEMP 70.4F, AVG PH 10.06, AVG PRESS 3631 PSI, AVG 53.5 BPM.

Date	Zone	Primary Job Type
7/7/2010	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	

Comment
THIS WELL WAS FRAC'D INTO BY WELLS RNCH AE32-03 7/2010.

(NIO A): TREATMENT WENT WELL, NO ISSUES TO REPORT. AVG VISC 23.7 CPS, AVG TEMP 69.5F, AVG PH 10.01, AVG PRESS 3690 PSI, AVG RATE 52.1 BPM. POST JOB 5 MIN OF 2704 PSI.

Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
8/13/2013	Stage Tool	2	3,972.0	3,977.0

Logs

Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
5/25/2010	Caliper/Comp. Density/Neutron/GR/SP/ML	2,700.0	6,769.0
5/25/2010	DIL/GR/SP/Caliper	559.0	6,789.0
6/4/2010	CBL/CCL/GR	2,188.0	6,710.0
11/19/2014	GYRO	10.0	6,500.0