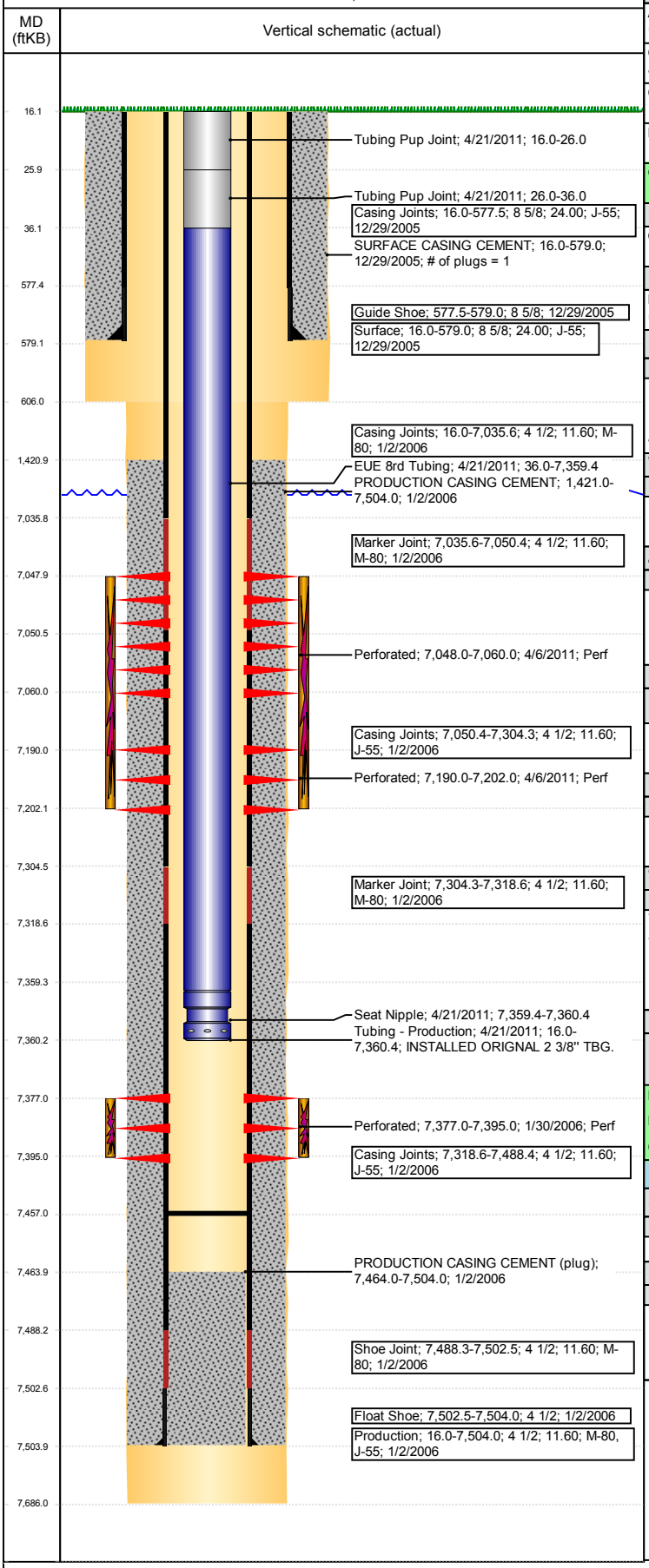
Operations Wellbore Schematic Report

Well Name: AUSTYN J09-03

DEVIATED - ORIGINAL HOLE, 6/1/2017 2:21:38 PM



Well Header

API	Business Unit	District	Well Config
05-123-23257	DJ BASIN	15	DEVIATED

Original KB Elevation (ft)	KB - GL / MSL (ftKB)	Spud Date	P & A Date
4,775	16.00	12/28/2005	

Comment

Directions To Well
GREELY,CO. 71 AVE./ 10TH ST.,S 1/4,E 1/10 INTO.

Current PBTD (mKB)
ORIGINAL HOLE - 7,457.0

Surface Location (Congressional)

Quarter 3	Quarter 4	Section	Township	Twnshp N/S Dir	Range	Range E/W Dir
NW	NW	9	5	N	66	W

Bottom Hole Location

North-South Distance (ft)	From N or S Line	East-West Distance (ft)	From E or W Line
660.0	FNL	1,875.0	FWL

Plug Back Total Depths

Date	Depth (ftKB)	Method	Com
1/2/2006	7,488.0	CASING TALLY	GUIDE SHOE
1/27/2006	7,464.0	CASED HOLE LOG	DEPTH LOGGER
4/21/2011	7,457.0	TAG	C/O, TBG TALLY MEASUREMENT. NOTE: 3 7/8" C...

Wellbore Sections

Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	16	606
PRODUCTION	7 7/8	606	7,686

Zone Statuses

Zone Name	Status Date	Status	Fluid Type	Job	Prod Method
CODELL	2/10/2010	PR		DRILLING/COMPLETION - ORIGINAL, 12/28/200...	
CODELL	4/8/2011	PR		RE-FRAC & RECOMPLETE, 3/21/2011 08:00	
NIOBRARA	4/8/2011	PR		RE-FRAC & RECOMPLETE, 3/21/2011 08:00	

Casing Strings

Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top, MD (ftKB)	MD (ftKB)
Surface	12/29/2005	8 5/8	24.00	J-55	16.0	579.0
Production	1/2/2006	4 1/2	11.60	M-80	16.0	7,504.0

Cement

Des	Top (ftKB)	Btm (ftKB)
SURFACE CASING CEMENT	16.0	579.0
PRODUCTION CASING CEMENT	1,421.0	7,504.0

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
Tubing Pup Joint	2 3/8	4.70	J-55	1	10.00
EUE 8rd Tubing	2 3/8	4.70	J-55	227	7,323.40
Seat Nipple	2 3/8	4.70	N-80	1	1.00

Perforation Data

Linked Zone	Bnch/Stg	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	24	7,048.00	7,060.00	4/6/2011
NIOBRARA, ORIGINAL HOLE	B	24	7,190.00	7,202.00	4/6/2011
CODELL, ORIGINAL HOLE		72	7,377.00	7,395.00	1/30/2006
Total (Sum)		**120**			

Other In Hole

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

Logs

Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
1/2/2006	COMPENSATED DENSITY	3,650.0	7,516.0
1/2/2006	INDUCTION	579.0	7,516.0
1/27/2006	CBL/CCL/GR	6,400.0	7,464.0

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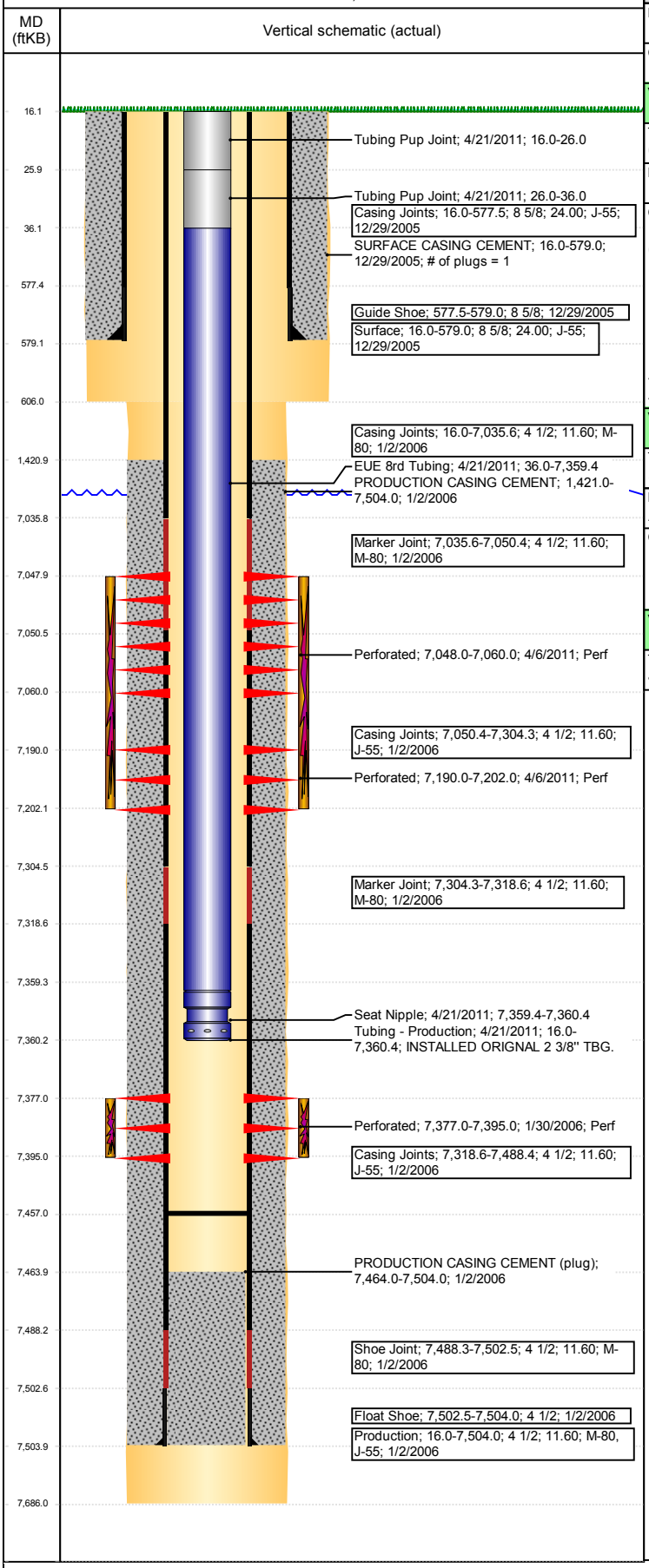

Stimulation Intervals

Bnch/Stg	Start Date	Primary Job Type
	2/8/2006	DRILLING/COMPLETION - ORIGINAL

Comment

Volume Slurry Total (gal)			
128,856.01			
Treat Pressure Avg (psi)	**Treat Pressure Max (psi)**	**Slurry Rate Avg (bbl/min)**	**Slurry Rate Max (bbl/min)**
6,505.0	6,958.0	14.1	14.3

Bnch/Stg	Start Date	Primary Job Type
	4/6/2011	RE-FRAC & RECOMPLETE

Comment

(CODELL REFRAC): NO APPARENT BREAK. ISIP - 2145 PSI. PUMP 2000 GAL 0.5 PSA SCOUR DURING XL PAD DUE TO PRESSURE INCREASING GRADUALLY DURING XL PAD. PRESSURE INCREASED 200 PSI WHEN 0.5 PSA HIT BOTTOM. INC RATE TO 18 BPM BEFORE 1 PSA STAGE TO PREVENT PRESSURE FROM INCREASING TOO MUCH WHEN SAND HIT BOTTOM. REDUCED RATE TO 14 BPM DURING 2 PSA STAGE BECAUSE PRESSURE RESPONSE WAS FLAT. TREATMENT WENT WELL. CAUGHT AIR DURING ACID SWAP. POST ISIP - 3674 PSI. AVG NOLTE - 0.06. AVG VISC - 23.22 CP. AVG TEMP - 71.7F. AVG PH - 10.24.

Volume Slurry Total (gal)			
144,130.56			
Treat Pressure Avg (psi)	**Treat Pressure Max (psi)**	**Slurry Rate Avg (bbl/min)**	**Slurry Rate Max (bbl/min)**
3,632.0	4,131.0	15.4	19.8

Bnch/Stg	Start Date	Primary Job Type
AB	4/6/2011	RE-FRAC & RECOMPLETE

Comment

(NIOBRARA A&B): ISIP - 3483 PSI. UNABLE TO PUMP AT 50 BPM DUE TO PUMP PROBLEMS. OTHERWISE JOB WENT WELL. POST ISIP - 3626 PSI. NOLTE FLAT. AVG VISC - 16.67 CP. AVG TEMP - 71.9F. AVG PH - 10.39.

Volume Slurry Total (gal)			
162,746.22			
Treat Pressure Avg (psi)	**Treat Pressure Max (psi)**	**Slurry Rate Avg (bbl/min)**	**Slurry Rate Max (bbl/min)**
4,066.0	4,612.0	39.2	40.8