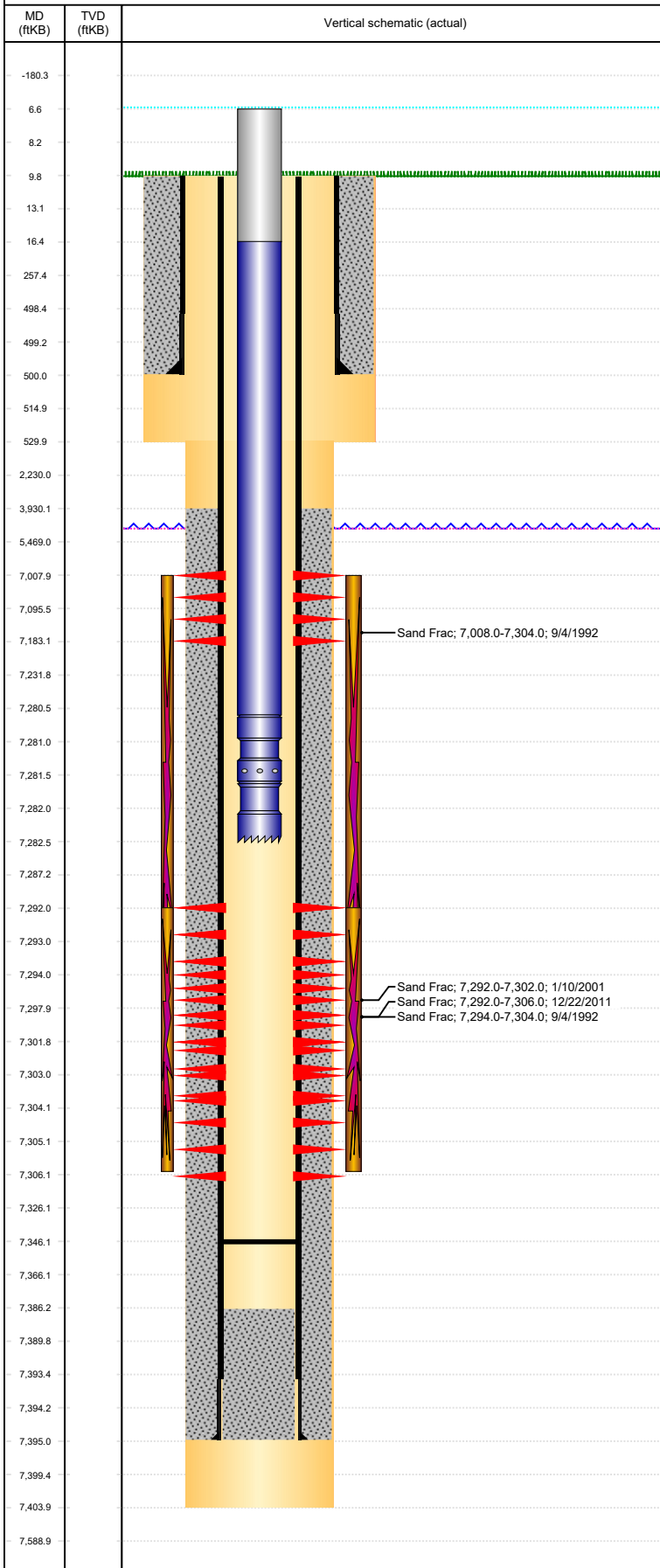


Well Name: LAND 31-13

VERTICAL, ORIGINAL HOLE, 4/11/2022 10:46:51 AM



Well Header

API 05-123-16009	Business Unit DJ BASIN	District 15	Well Config VERTICAL
Original KB Elevation (ft) 4,868	KB - GL / MSL (ftKB) 10.00	Spud Date 8/3/1992	P & A Date

Comment

DISCREPANCY IN FILE - TD (7375') VS. CSG SET DEPTH (7404'):

Directions To Well

WCR 39 & 40, S. 0.4, W. 0.1, NW. 0.1, SW. 0.1, W. 0.1, SW. INTO.

Congressional Location

Quarter 3 SW	Quarter 4 NE	Section 31	Township 4	Twntshp N/S Dir N	Range 65	Range E/W Dir W
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Bottom Hole Legal Location

Bottom Hole Legal Location

Plug Back Total Depths

Date	Depth (ftKB)	Method	Com
8/14/1992	7,386.0	CASED HOLE LOG	DEPTH LOGGER
1/12/2001	7,330.0	TAG	FILL
12/3/2011	7,346.2	TAG	TBG TALLY MEASUREMENT.

Wellbore Sections

Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	10	530
PRODUCTION	7 7/8	530	7,404

Zone Statuses

Zone Name	Status Date	Status	Fluid Type	Job	Prod Method
CODELL	9/10/1992	PR	Water	DRILLING/CO...	Flowing
CODELL	1/12/2001	PR		RE-FRAC, 12/3...	
CODELL	5/13/2010	PR		TRI-FRAC, 12/...	
CODELL	2/6/2012	PR		DRILLING/CO...	
NIOBRARA	3/10/2017	SI	Water		Flowing
NIOBRARA	9/10/1992	PR			
NIOBRARA	5/13/2010	PR			

Casing Strings

Surface, 500.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Surface	8/4/1992	8 5/8	24.00	J-55	10.0	500.0

Production, 7,395.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Production	8/10/1992	4 1/2	12.60	L-80	10.0	7,395.0

Cement

Description	Top Depth (ftKB)	Bottom Depth (ftKB)
SURFACE CASING CEMENT	10.0	500.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
PRODUCTION CASING CEMENT	3,930.0	7,395.0

Tubing Strings

Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing	1/12/2001	2 3/8	2.00	4.70		7,258.00	

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
Tubing	2 3/8	4.70		235	7,256.00	7,266.0	
Seat Nipple	2 3/8	4.70			1.00	7,267.0	
Mule Shoe	2 3/8	4.70			1.00	7,268.0	

Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing	10/20/2006	2 3/8				7,255.00	

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
Tubing	2 3/8			235	7,253.50	7,263.5	
Seal Nipple	2 3/8			1	1.50	7,265.0	

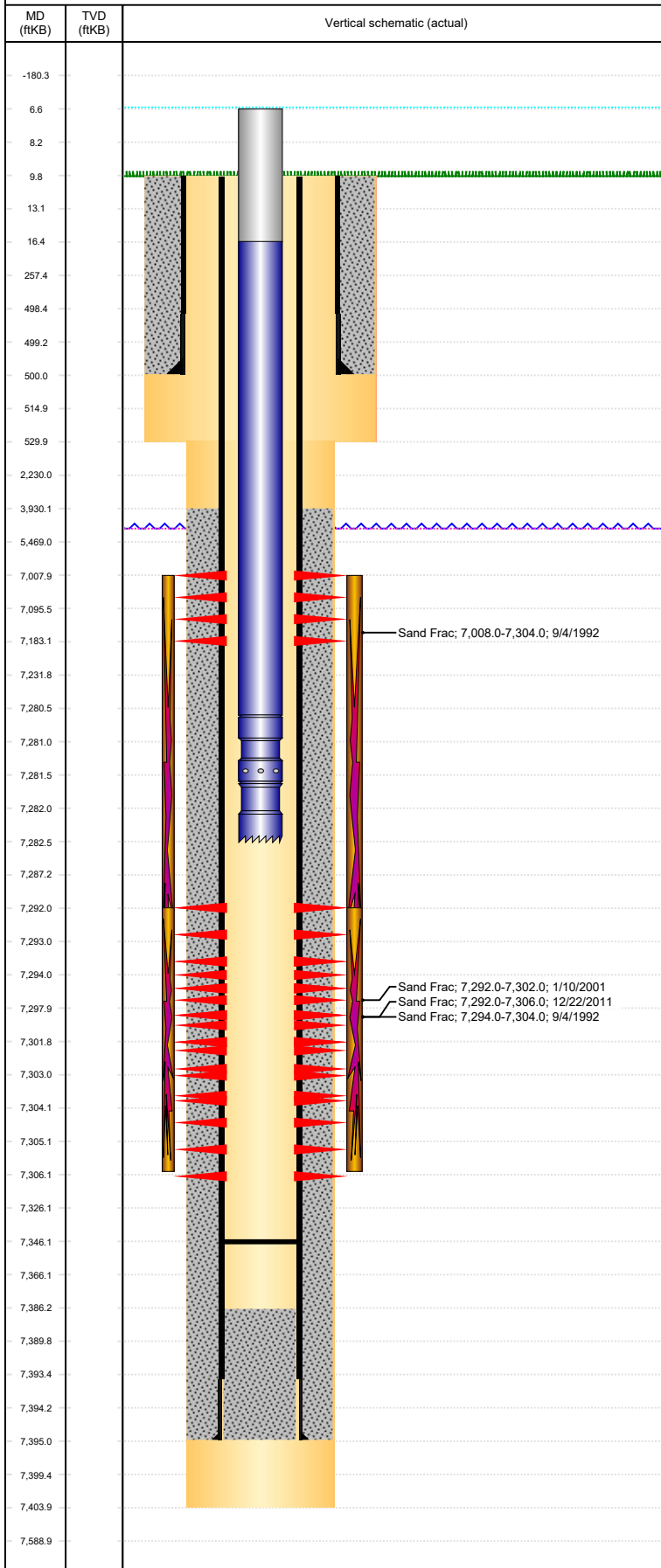
Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing - Frac string	12/3/2011	2 7/8	2.44	6.50	N-80	7,232.05	

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
Pup Joint	2 7/8	6.50	N-80	1	10.00	13.1	
Tubing	2 7/8	6.50	N-80	209	6,911.79	6,924.8	

Well Name: LAND 31-13

VERTICAL, ORIGINAL HOLE, 4/11/2022 10:46:52 AM



Tubing Components							
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
Cross Over	2 3/8	6.50	N-80	1	1.00	6,925.8	
Tubing	2 3/8	4.70	N-80	10	302.06	7,227.9	
Packer	4	6.50	N-80	1	7.20	7,235.1	
Tubing Description		Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing - Production		1/4/2012	2 3/8	2.00	4.70	J-55	7,276.11

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	1	10.00	16.5	
EUE 8rd Tubing	2 3/8	4.70	J-55	235	7,264.11	7,280.6	
Seal Nipple	2 3/8			1	1.00	7,281.6	
Notched collar	2 3/8			0	1.00	7,282.6	

Other In Hole							Pr op R un
Run Date	Des	Make	OD (in)	Top (ftKB)	Btm (ftKB)		

Logs			
Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
8/8/1992	COMPENSATED DENSITY	4,200.0	7,442.0
8/8/1992	INDUCTION	500.0	7,442.0
8/14/1992	ACOUSTIC	3,790.0	7,386.0
8/14/1992	SONIC	3,790.0	7,381.0
5/9/2018	GYRO	10.0	7,200.0

Perforation Data					
Linked Zone	Bnch/St g	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE		16	7,008.00	7,183.00	9/2/1992
CODELL, ORIGINAL HOLE		40	7,292.00	7,302.00	1/5/2001
CODELL, ORIGINAL HOLE		56	7,292.00	7,306.00	12/3/2011
CODELL, ORIGINAL HOLE		10	7,294.00	7,304.00	9/2/1992
Total		122			

Stimulation Intervals			
Interval...	Start Date	Primary Job Type	Zone
1	9/4/1992	DRILLING/COMPLETION - ORIGINAL	CODELL, ORIGINAL HOLE
Technical Result		Tech Result Details	Tech Result Note
Comment TERRA FRAC + 60 BO			
Interval...	Start Date	Primary Job Type	Zone
1	9/4/1992	DRILLING/COMPLETION - ORIGINAL	NIOBRARA, ORIGINAL HOLE
Technical Result		Tech Result Details	Tech Result Note
Comment TERRA FRAC + 60 BO			
Interval...	Start Date	Primary Job Type	Zone
1	1/10/2001	RE-FRAC	CODELL, ORIGINAL HOLE
Technical Result		Tech Result Details	Tech Result Note
Comment			
Interval...	Start Date	Primary Job Type	Zone
1	12/22/2011	TRI-FRAC	CODELL, ORIGINAL HOLE
Technical Result		Tech Result Details	Tech Result Note
Success		According to Plan	
Comment (CODELL TF) ISIP 3932, 5 MIN 2056. LAB VAN GENERATOR FAILED DURING 1.0 PSA STAGE, NO REAL TIME FLUID QAQC FOR REST OF JOB. CONTINUOUSLY BENCH TESTED FLUID. AT THE END OF 2-4 PSA RAMP, BLENDER OPERATOR RAN CRB AT A LOADING 3 PPT, INSTEAD OF 1 PPT FOR ABOUT 10 MIN. REDUCED CRB LOADING TO 0.5 PPT FOR REST OF 2-4 PSA RAMP. INCREASE CRB LOADING TO 1 PPT DURING 4.0 PSA STAGE. AVERAGES: VISC 29.1, TEMP 64.6, PH 10.27, NOLTE +0.09. POST ISIP 3503, POST 5 MIN 3109.			