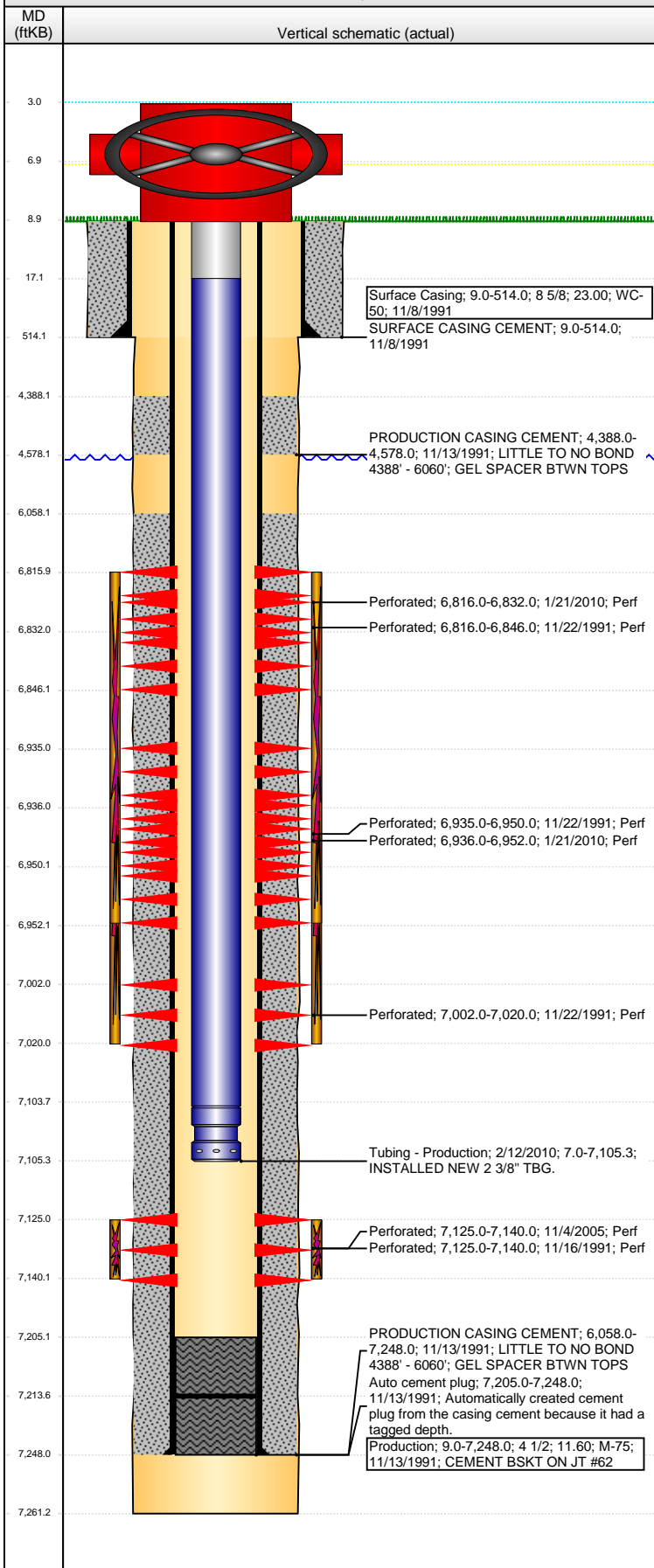


Well Name: **GEIS 05-12**

VERTICAL - ORIGINAL HOLE, 10/5/2016 8:37:41 AM



Well Header			
API	Business Unit	District	Well Config
05-123-15353	DJ BASIN	15	VERTICAL
Original KB Elevation (ft)	KB - GL / MSL (ftKB)	Spud Date	P & A Date
4,693	9.00	11/8/1991	

Comment
LITTLE TO NO CMNT BOND 4388' - 6060'; GEL SPACER BTWN

Directions To Well
RDS 48 1/2 & 39, NORTH 1/10, EAST INTO.

Congressional Location					
Quarter 3	Quarter 4	Section	Township	Twnshp N/S Dir	Range
NW	SW	5	4	N	65
Range E/W Dir					
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
11/13/1991	7,205.0	CASING TALLY	
11/21/2005	7,195.0	TAG	C/O LAND TBG
1/21/2010	6,992.0		SAND PLUG
2/12/2010	7,213.6	TAG	TBG TALLY MEASUREMENT.

Wellbore Sections			
Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	9	514
PRODUCTION	7 7/8	514	7,261

Zone Statuses					
Zone Name	Status Date	Status	Fluid Type	Job	Prod Method
CODELL	12/5/1991	PR		DRILLING/CO...	
CODELL	2/8/1999	PR		RE-FRAC, 1/28...	
CODELL	11/28/2005	PR		TRI-FRAC, 11/...	
CODELL	1/19/2010	SI		RE-FRAC, 1/19...	
CODELL	2/17/2010	PR		RE-FRAC, 1/19...	
NIOBRARA	12/5/1991	PR		DRILLING/CO...	
NIOBRARA	2/5/2010	PR		RE-FRAC, 1/19...	
NIOBRARA	2/17/2010	PR		RE-FRAC, 1/19...	

Casing Strings							
Surface Casing, 514.0ftKB							
Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)	
Surface Casing	11/8/1991	8 5/8	23.00	WC-50	9.0	514.0	

Production, 7,248.0ftKB							
Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)	
Production	11/13/1991	4 1/2	11.60	M-75	9.0	7,248.0	

Cement		
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
SURFACE CASING CEMENT	9.0	514.0
PRODUCTION CASING CEMENT	4,388.0	4,578.0
PRODUCTION CASING CEMENT	6,058.0	7,248.0

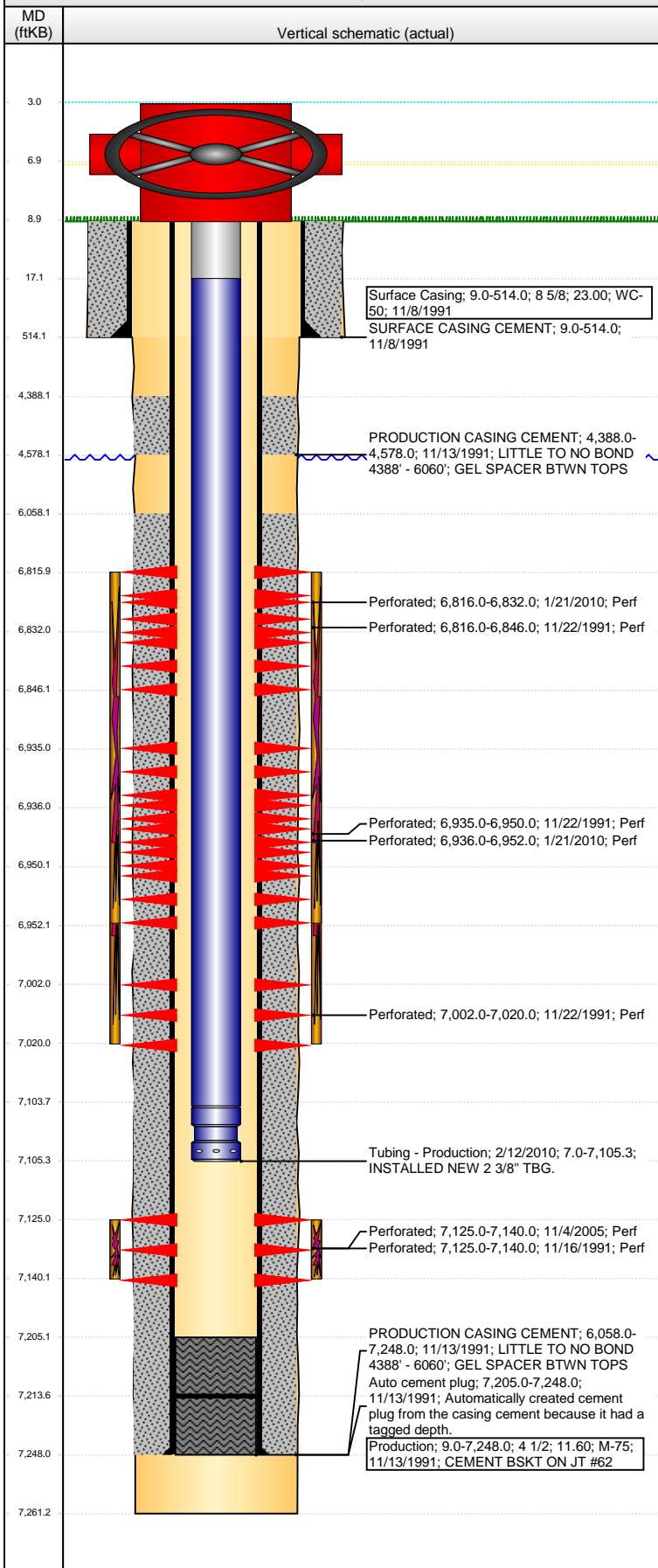
Tubing Strings							
Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing - Production	11/21/2005	5	2 3/8	4.70		7,103.00	
Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing - Production	2/12/2010	2 3/8	1.995	4.70	J-55	7,098.30	

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	17.0	
Tubing	2 3/8	4.70	J-55	229	7,086.78	7,103.8	
Notch Seat Nipple	2 3/8	4.70	N-80	1	1.52	7,105.3	

Perforation Data					
Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	10	6,816.00	6,846.00	11/22/1991
NIOBRARA, ORIGINAL HOLE	A	64	6,816.00	6,832.00	1/21/2010
NIOBRARA, ORIGINAL HOLE	B	10	6,935.00	6,950.00	11/22/1991

Well Name: **GEIS 05-12**

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Perforation Data					
Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	B	64	6,936.00	6,952.00	1/21/2010
NIOBRARA, ORIGINAL HOLE	C	8	7,002.00	7,020.00	11/22/1991
CODELL, ORIGINAL HOLE		59	7,125.00	7,140.00	11/16/1991
CODELL, ORIGINAL HOLE		30	7,125.00	7,140.00	11/4/2005

Stimulations & Treatments		
Date	Zone	Primary Job Type
11/19/1991	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result		Tech Result Details
Comment		

Date	Zone	Primary Job Type
11/25/1991	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result		Tech Result Details
Comment		

Date	Zone	Primary Job Type
2/2/1999	CODELL, ORIGINAL HOLE	RE-FRAC
Technical Result		Tech Result Details
Comment		

Date	Zone	Primary Job Type
11/16/2005	CODELL, ORIGINAL HOLE	TRI-FRAC
Technical Result		Tech Result Details
Comment		

Date	Zone	Primary Job Type
2/3/2010	NIOBRARA, ORIGINAL HOLE	RE-FRAC
Technical Result		Tech Result Details
Success According to Plan		
Comment		

(NIO RF): STAGED INTO THE SLICKWATER STAGE AND FLANGE STRTD TO LEAK AT 3600 PSI. GOT FLANGE TIGHTENED AND GOT BACK INTO IT AND THE SWAGE BETWEEN THE WELL HEAD VALVES WAS LEAKING. SHUT DOWN AND GOT IT TIGHT AND PRESSURE TESTED, TO 5000 PSI THEN CONTINUED SLICKWATER STAGE. TREATMENT WENT WELL. AVG VISC 24.5 CPS, AVG TEMP 65.6F, AVG PH 10.08, AVG PRESSURE 4426 PSI, AVG RATE 43.2 BPM. POST JOB 5 MIN OF 3550 PSI.

Other In Hole				
Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)

Logs			
Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
11/13/1991	FORMATION DENSITY	3,550.0	7,213.0
11/13/1991	INDUCTION	514.0	7,241.0
11/16/1991	SONIC	5,850.0	7,188.0
12/7/2011	GYRO	9.0	7,050.0