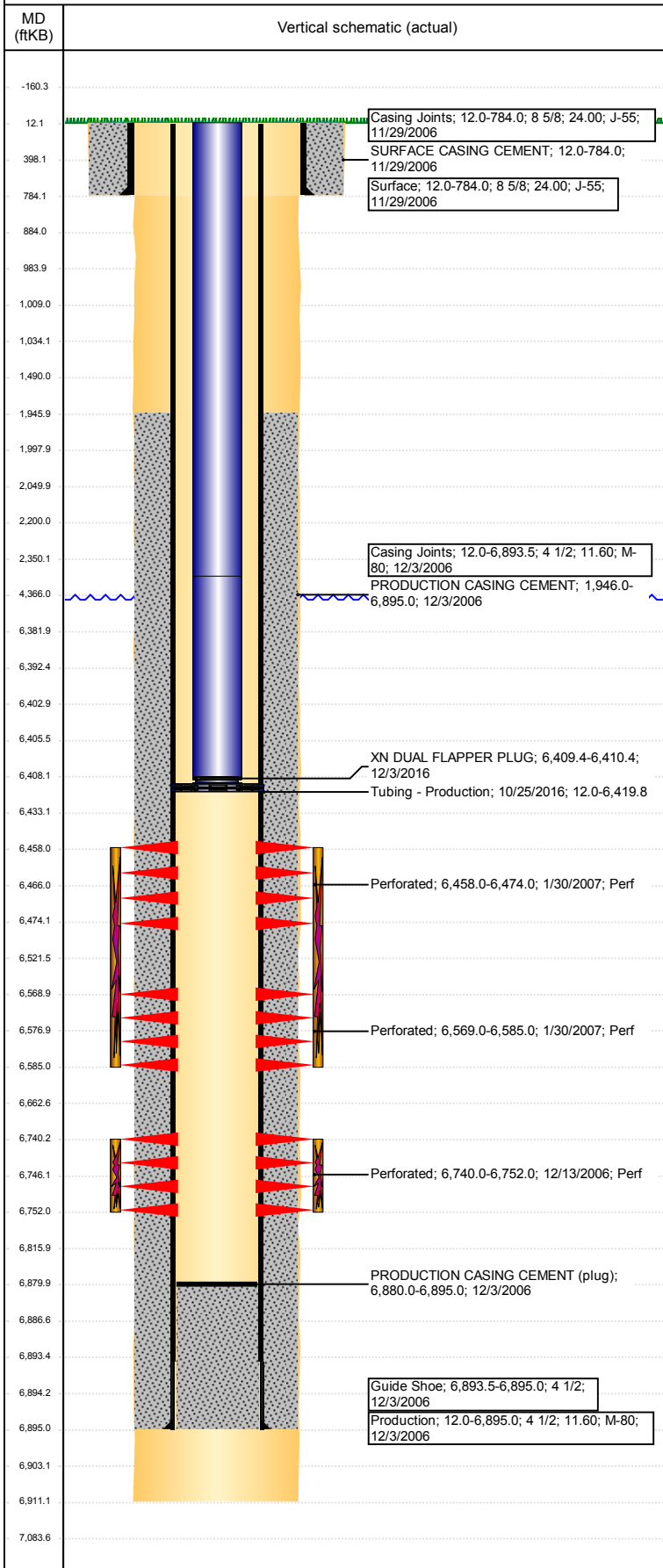


**Well Name: THRALL USX AA19-14**

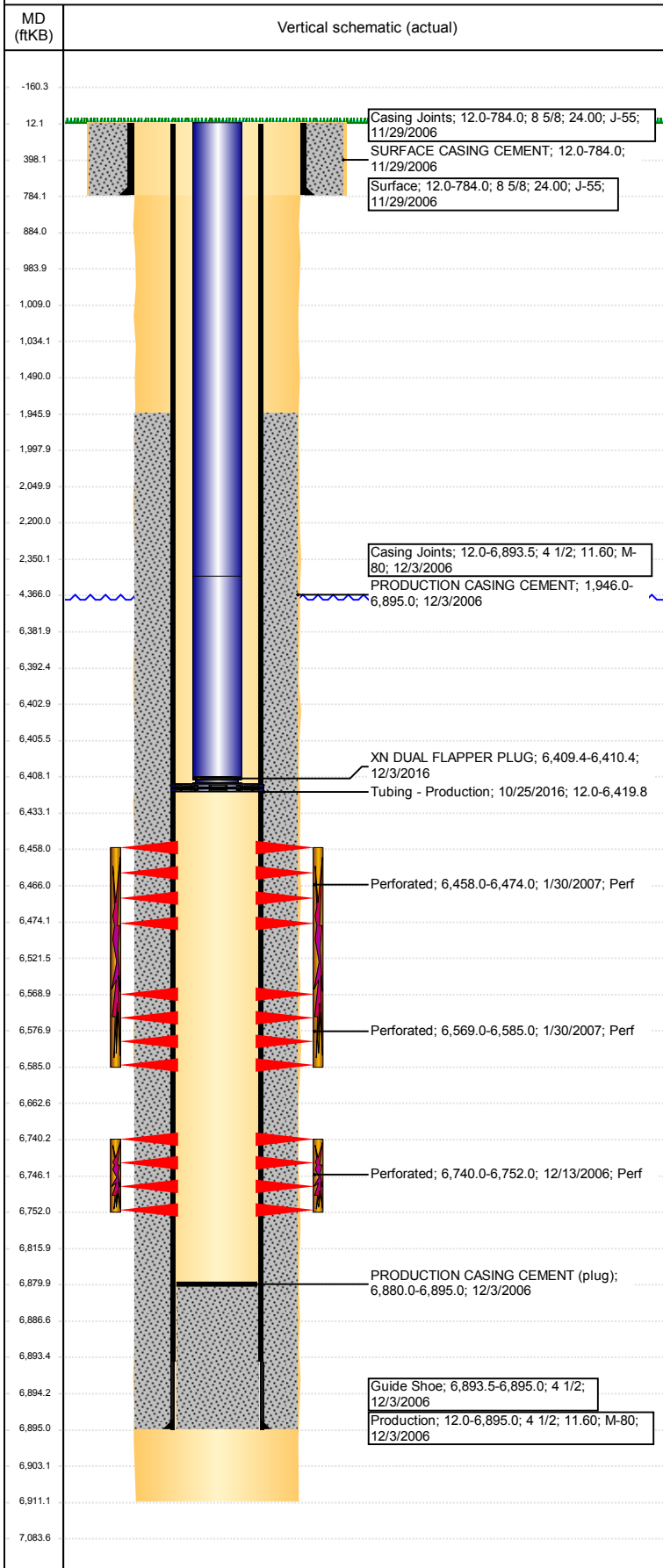
VERTICAL - ORIGINAL HOLE, 12/15/2017 10:30:28 AM



Well Header						
API 05-123-27050	Business Unit DJ BASIN		District 15		Well Config VERTICAL	
Original KB Elevation (ft) 4,660	KB - GL / MSL (ftKB) 12.00		Spud Date 11/28/2006		P & A Date	
Comment						
Directions To Well						
Congressional Location						
Quarter 3 SE	Quarter 4 SW	Section 19	Township 6	Twnshp N/S Dir N	Range 63	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	
12/4/2006	6,880.0	CASING TALLY				
Wellbore Sections						
Section Des		Size (in)		Act Top, MD (ftKB)		Act Btm, MD (ftKB)
SURFACE		12 1/4		12		784
PRODUCTION		7 7/8		784		6,911
Zone Statuses						
Zone Name	Status Date	Status	Fluid Type	Job	Prod Method	
NIOBRARA	2/23/2007	PR	Oil	DRILLING/CO...		
CODELL	2/23/2007	PR	Oil	DRILLING/CO...		
Casing Strings						
Surface, 784.0ftKB						
Casing Description Surface		Run Date 11/29/2006	OD (in) 8 5/8	Wt/Len (l... 24.00	Grade J-55	Top, MD (ft... 12.0
						MD (ftKB) 784.0
Production, 6,895.0ftKB						
Casing Description Production		Run Date 12/3/2006	OD (in) 4 1/2	Wt/Len (l... 11.60	Grade M-80	Top, MD (ft... 12.0
						MD (ftKB) 6,895.0
Cement						
Description SURFACE CASING CEMENT				Top Depth (ftKB) 12.0		Bottom Depth (ftKB) 784.0
Description PRODUCTION CASING CEMENT				Top Depth (ftKB) 1,946.0		Bottom Depth (ftKB) 6,895.0
Description Dump Bail				Top Depth (ftKB) 6,382.0		Bottom Depth (ftKB) 6,403.0
Description Balance Plug				Top Depth (ftKB) 2,050.0		Bottom Depth (ftKB) 2,350.0
Description Shoe Plug				Top Depth (ftKB) 12.0		Bottom Depth (ftKB) 984.0
Description Shoe Plug				Top Depth (ftKB) 984.0		Bottom Depth (ftKB) 1,034.0
Tubing Strings						
Tubing Description Tubing - Production		Run Date 12/14/2007	String... 2 3/8	ID (in) 2.00	Wt (lb/ft) 4.70	Grade J-55
					Len (ft) 6,716.00	Set De...
Tubing Components						
Item Des		OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)
EUE 8rd Tubing		2 3/8	4.70	J-55	218	6,714.00
Seal Nipple		2 3/8			1	1.00
Notched collar		2 3/8			1	1.00
						6,728.0
Tubing Description Tubing - Production		Run Date 3/22/2012	String... 2 3/8	ID (in) 2.00	Wt (lb/ft) 4.70	Grade J-55
					Len (ft) 6,716.00	Set De...
Tubing Components						
Item Des		OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)
Pup Joint		2 3/8	4.70	N-80	1	10.00
EUE 8rd Tubing		2 3/8	4.70	J-55	218	6,704.00
Seal Nipple		2 3/8	4.70	J-55	1	1.00
Notched collar		2 3/8	4.70	J-55	1	1.00
						6,728.0
Tubing Description Tubing - Production		Run Date 10/25/2016	String... 2 3/8	ID (in) 2.00	Wt (lb/ft) 4.70	Grade J-55
					Len (ft) 6,407.84	Set De...

**Well Name: THRALL USX AA19-14**

VERTICAL - ORIGINAL HOLE, 12/15/2017 10:30:29 AM



Tubing Components							
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
Tubing	2 3/8	4.70	J-55	110	3,383.29	3,395.3	
X Nipple	2 3/8	4.70	N-80	1	1.00	3,396.3	
Tubing	2 3/8	4.70	J-55	98	3,013.00	6,409.3	
XN Nipple	2 3/8		N-80	1	1.05	6,410.3	
Pup Joint	2 3/8	4.70	N-80	1	4.00	6,414.3	
Packer STS Compression	4 1/2			1	5.50	6,419.8	

Other In Hole				
Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
7/10/2017	Cast Iron Bridge Plug	4	6,403.0	6,408.0

Logs			
Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
12/3/2006	COMPENSATED DENSITY	2,000.0	6,895.0
12/3/2006	GAMMA RAY	1,946.0	6,915.0
12/12/2006	CEMENT BOND	1,815.0	6,862.0
4/3/2014	GYRO	12.0	6,600.0

Perforation Data					
Linked Zone	Bnch/St g	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE		64	6,458.00	6,474.00	1/30/2007
NIOBRARA, ORIGINAL HOLE		64	6,569.00	6,585.00	1/30/2007
CODELL, ORIGINAL HOLE		48	6,740.00	6,752.00	12/13/2006
<b>Total (Sum)</b>		<b>176</b>			

Stimulation Intervals		
Start Date	Primary Job Type	
1/30/2007	DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note
Comment		
Start Date	Primary Job Type	
1/30/2007	DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note
Comment		