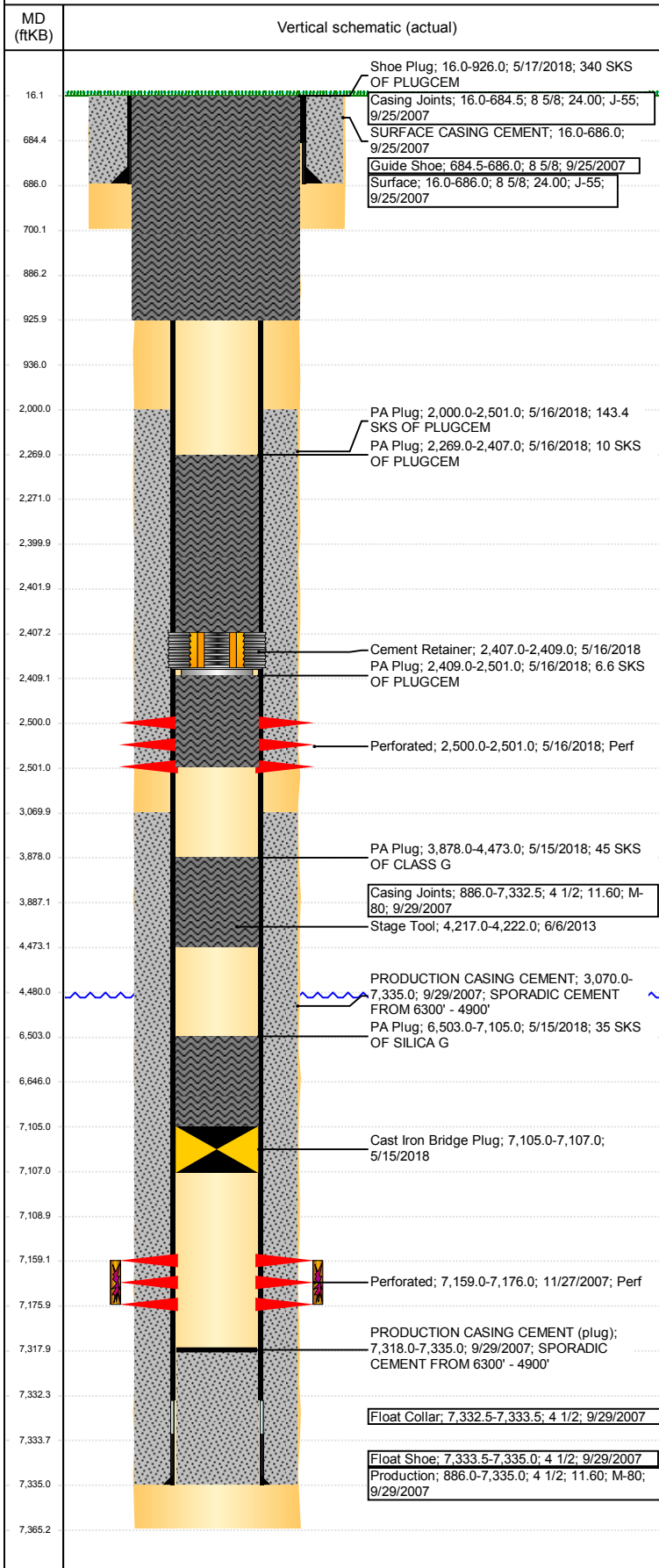


Well Name: BATES 20-22

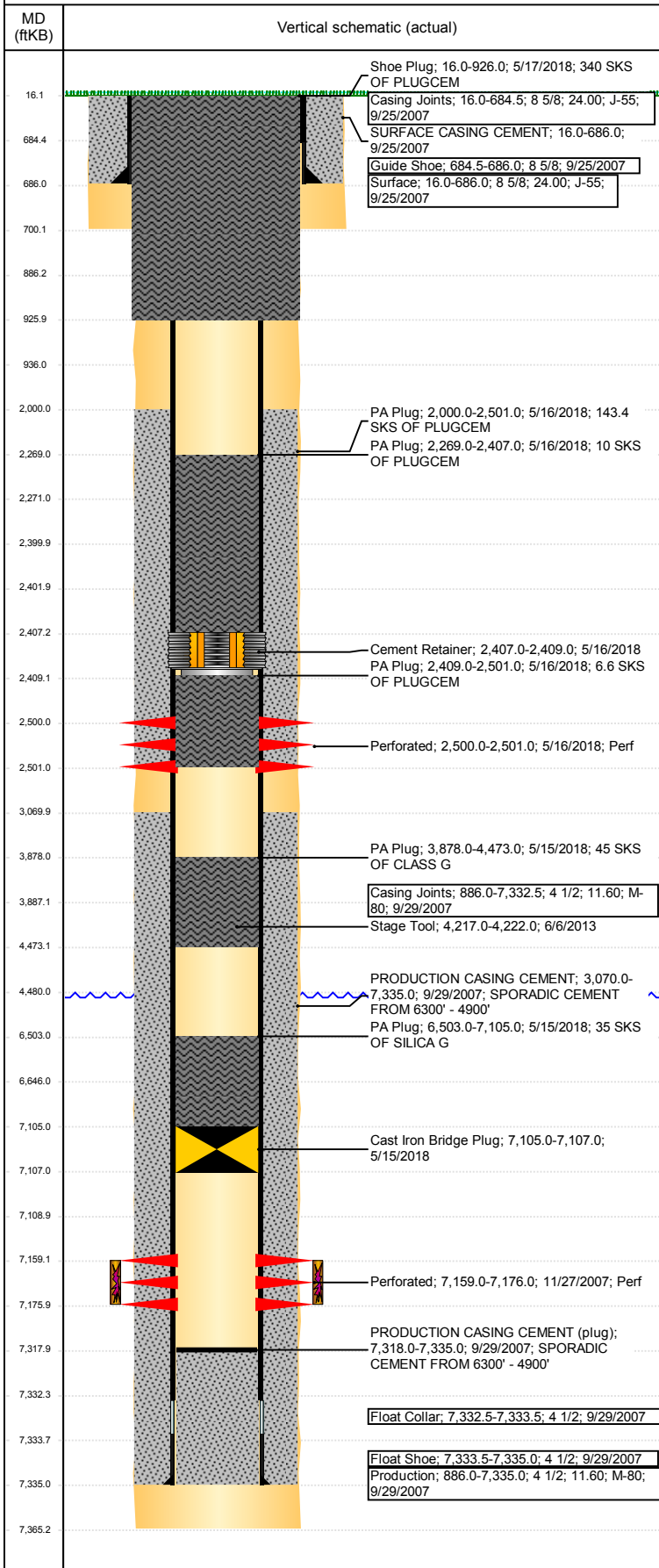
VERTICAL - ORIGINAL HOLE, 6/5/2018 3:19:55 PM



Well Header							
API 05-123-24849		Well Report Center 425778121			Well Configuration Type VERTICAL		
Original KB Elevation (ft) 4,796		KB - GL / MSL (ftKB) 16.00		Spud Date 9/24/2007		P & A Date 5/17/2018	
Production Route Watt - A2-10			Well Production Status PA				SoRT Ignore Yes
Directions To Well 27/392 E. 300' S 300' E 300' SW INTO					Actual Latitude (°) 40.47936000		Actual Longitude (°) -104.80910000
Comment							
Congressional Location							
Quarter 3 NW	Quarter 4 NW	Section 20	Township 6	Twntshp N/S Dir N	Range 66	Range E/W Dir W	
Rig Operator							
Rig Operator							
Plug Back Total Depths							
Date	Depth (ftKB)	Method			Com		
1/29/2008	7,318.0	TAG			CLEAN OUT		
Wellbore Sections							
Section Des		Size (in)		Act Top, MD (ftKB)		Act Btm, MD (ftKB)	
SURFACE		12 1/4		16		700	
PRODUCTION		7 7/8		700		7,365	
Zone Statuses							
Zone Name		Status Date			Status		
CODELL		5/14/2018			P&A		
Casing Strings							
Surface, 686.0ftKB							
Casing Description Surface	Run Date 9/25/2007	OD (in) 8 5/8	Wt/Len (l... 24.00	Grade J-55	Top, MD (ft... 16.0	MD (ftKB) 686.0	
Production, 7,335.0ftKB							
Casing Description Production	Run Date 9/29/2007	OD (in) 4 1/2	Wt/Len (l... 11.60	Grade M-80	Top, MD (ft... 16.0	MD (ftKB) 7,335.0	
Cement							
Des			Start Date		Top (ftKB)		Btm (ftKB)
SURFACE CASING CEMENT			9/25/2007		16.0		686.0
PRODUCTION CASING CEMENT			9/29/2007		3,070.0		7,335.0
PA Plug			5/15/2018		6,503.0		7,105.0
PA Plug			5/15/2018		3,878.0		4,473.0
PA Plug			5/16/2018		2,269.0		2,407.0
PA Plug			5/16/2018		2,409.0		2,501.0
PA Plug			5/16/2018		2,000.0		2,501.0
Shoe Plug			5/17/2018		16.0		926.0
Proposed Cement							
Des					Top (ftKB)		Btm (ftKB)
Sussex Plug					3,887.0		4,480.0
Plug - CIBP					6,646.0		7,109.0
Stub Plug - Attempt					886.0		936.0
Shoe Plug					16.0		886.0
Elective Plug - Annulus					2,000.0		2,500.0
PA Plug - Below CICR					2,402.0		2,500.0
PA Plug - Top of CICR					2,271.0		2,400.0
Tubing Strings							
Tubing Description Tubing - Production	Run Date 1/29/2008	String... 2 3/8	ID (in) 2.00	Wt (lb/ft) 4.70	Grade J-55	Len (ft) 7,104.00	Set De...
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	231	7,102.00	7,118.0	
Seal Nipple	2 3/8				1.00	7,119.0	
Notched collar	2 3/8				1.00	7,120.0	
Other In Hole							
Run Date	Des				OD (in)	Top (ftKB)	Btm (ftKB)
5/15/2018	Cast Iron Bridge Plug				4	7,105.0	7,107.0
5/16/2018	Cement Retainer				3.99	2,407.0	2,409.0

Well Name: **BATES 20-22**

VERTICAL - ORIGINAL HOLE, 6/5/2018 3:19:56 PM



Proposed Other In Hole							
Des		OD (in)	Top (ftKB)	Btm (ftKB)			
Logs							
Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)				
9/28/2007	COMPENSATED DENSITY	686.0	3,500.0				
9/28/2007	INDUCTION	686.0	7,353.0				
11/21/2007	CBL/CCL/GR	2,950.0	7,304.0				
12/8/2017	GYRO	12.0	4,247.0				
12/8/2017	GYRO	12.0	7,050.0				
Perforation Data							
Linked Zone	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date			
	6	2,500.00	2,501.00	5/16/2018			
CODELL, ORIGINAL HOLE	68	7,159.00	7,176.00	11/27/2007			
Total (Sum)	74						
Proposed Perforations							
Linked Zone	Sum of En...	Top Depth (ftKB)	Btm (ftKB)	Date			
	0	2,500.00	2,500.00	1/15/2018			
Total (Sum)	0						
Job Supply Amounts							
Supply Item Des		Type	Uni...	Job Category	Total...	Total...	Total...
WATER - COMPLETION/RE COMP		PUBLIC	bbl	ABANDON	0	362.0	0.0
Daily Cost Breakdown by Category							
Sum of Field Est...	Cost Description			Note			
20,595.00	Downhole			RIG TIME			
Sum of Field Est...	Cost Description			Note			
1,100.00	Downhole			WINCH TRUCKS			
Sum of Field Est...	Cost Description			Note			
19,442.00	Downhole			20/55 SK BAL PLUG			
Sum of Field Est...	Cost Description			Note			
9,721.00	Downhole			INCOMPLETE SRV			
Sum of Field Est...	Cost Description			Note			
1,490.00	Downhole			2 LOADS WATER			
Sum of Field Est...	Cost Description			Note			
3,400.00	Downhole			SUPERVISION			
Sum of Field Est...	Cost Description			Note			
2,000.00	Downhole			LOC PREP			
Sum of Field Est...	Cost Description			Note			
2,873.00	Downhole			CIBP			
Sum of Field Est...	Cost Description			Note			
5,086.00	Downhole			SQ HOLES/JET CUT			
Sum of Field Est...	Cost Description			Note			
3,752.75	Downhole			SQ HOLES			
Sum of Field Est...	Cost Description			Note			
140.00	Downhole			TOILET			
Sum of Field Est...	Cost Description			Note			
700.00	Downhole			FRESH H2O			
Sum of Field Est...	Cost Description			Note			
2,695.00	Downhole			DISPOSAL			
Sum of Field Est...	Cost Description			Note			
357.50	Downhole			DIS[POSAL			
Sum of Field Est...	Cost Description			Note			
1,500.00	Downhole			TBG/CSG TRAILERS			
Sum of Field Est...	Cost Description			Note			
5,300.00	Downhole			DISPOSAL			
Sum of Field Est...	Cost Description			Note			
2,983.50	Downhole			CIBP #1			
Sum of Field Est...	Cost Description			Note			
6,325.29	Downhole			TOOLS			
Sum of Field Est...							
89,461.04							