

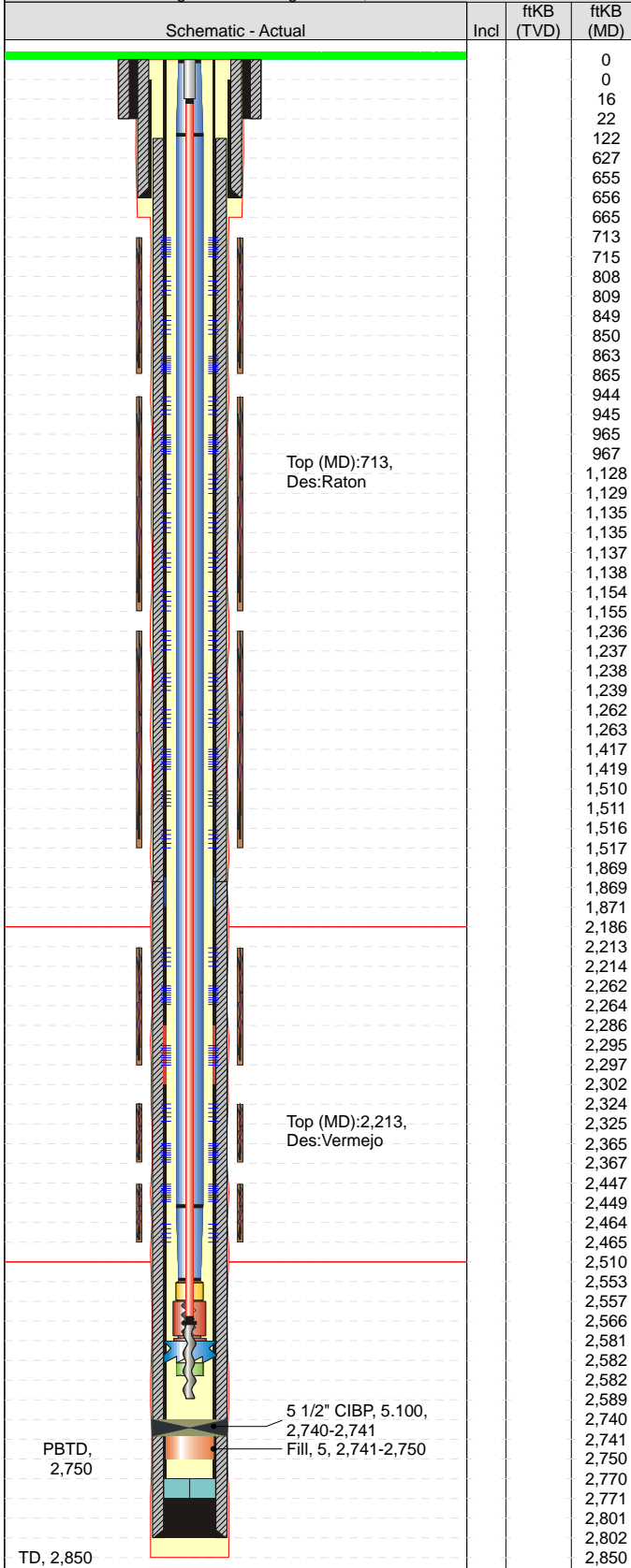


# XTO - Wellbore Diagram

Well Name: Hill Ranch 12-09

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State/Province
05071080680000	1,085.0	FEL	2,380.0	FSL	T35S-R68W-S12	Purgatoire River	Las Animas	Colorado
Well Configuration Type	XTO ID B	Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	PBTD (All) (ftKB)	Total Depth (ftKB)	Method Of Production
Vertical	94801	8,810.00	8,810.00	0.00	6/10/2004	Original Hole - 2750.0	2,850.0	PCP

Well Config: Vertical - Original Hole, 10/15/2013 9:38:19 AM



Zones									
Zone		Top (ftKB)		Btm (ftKB)					
Raton		713.0		1,517.5					
Vermejo		2,213.0		2,465.0					
Casing Strings									
Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
Conductor	12 3/4				22.0				
Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
Surface	8 5/8	24.00	J-55	ST&C	656.0				
Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
Production	5 1/2	17.00	J-55	LT&C	2,802.0				
Item Description	OD Nominal (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Bottom (ftKB)				
Stage Collar	5 1/2			1,868.9	1,871.0				
Cement									
Description		Type		String					
Conductor Casing Cement		casing		Conductor, 22.0ftKB					
Comment									
Description		Type		String					
Surface Casing Cement		casing		Surface, 656.0ftKB					
Comment									
Description		Type		String					
Production Casing Cement		casing		Production, 2,802.0ftKB					
Comment									
Perforations									
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone		
11/14/2006	713.0	715.0	3.0	0.450	120		Raton		
11/14/2006	808.0	809.0	3.0	0.450	120		Raton		
11/14/2006	849.0	850.0	3.0	0.450	120		Raton		
11/14/2006	863.0	865.0	3.0	0.450	120		Raton		
11/14/2006	944.0	945.0	3.0	0.450	120		Raton		
11/14/2006	965.0	967.0	3.0	0.450	120		Raton		
11/14/2006	1,128.0	1,129.0	3.0	0.450	120		Raton		
11/14/2006	1,134.5	1,135.5	3.0	0.450	120		Raton		
11/14/2006	1,137.5	1,138.5	3.0	0.450	120		Raton		
11/14/2006	1,153.5	1,154.5	3.0	0.450	120		Raton		
11/14/2006	1,235.5	1,236.5	3.0		120		Raton		
11/14/2006	1,238.0	1,239.0	3.0	0.450	120		Raton		
11/14/2006	1,262.0	1,263.0	3.0	0.450	120		Raton		
11/14/2006	1,417.0	1,419.0	3.0	0.450	120		Raton		
11/14/2006	1,510.0	1,511.0	3.0	0.450	120		Raton		
11/14/2006	1,516.5	1,517.5	3.0	0.450	120		Raton		
8/25/2004	2,213.0	2,214.0	4.0		120		Vermejo		
8/25/2004	2,262.0	2,264.0	4.0		120		Vermejo		
8/25/2004	2,295.0	2,297.0	4.0		120		Vermejo		
8/25/2004	2,324.0	2,325.0	4.0		120		Vermejo		
8/25/2004	2,365.0	2,367.0	4.0		120		Vermejo		
8/25/2004	2,447.0	2,449.0	4.0		120		Vermejo		
8/25/2004	2,464.0	2,465.0	4.0		120		Vermejo		
Tubing Strings									
Tubing Description			Run Date			Set Depth (ftKB)			
Tubing - Production			3/20/2013			2,582.2			
Tubing Components									
Item Description	Jts	Model	OD (in)	Wt (lbs/ft)	Gra...	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	83	T&C Upset	2 7/8	6.50	J-55		2,553.08	0.0	2,553.1
Tubing Sub	1	T&C Upset	2 7/8	6.50	J-55		4.10	2,553.1	2,557.2
Stator	1	30H2...	3 1/2				23.55	2,557.2	2,580.7
No Turn Tool	1		5 1/2				1.05	2,580.7	2,581.8



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