



# XTO - Wellbore Diagram

Well Name: Hill Ranch 22-12V

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State/Province
05071072110000	1,032.0	FWL	1,538.0	FSL	T34S-R67W-S22	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	94690	7,980.00	7,980.00	0.00	5/8/2001	Original Hole - 2485.0	2,485.0	PCP

Well Config: Vertical - Original Hole, 10/17/2013 9:02:06 AM

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Zones						
					Zone		Top (ftKB)		Btm (ftKB)		
					Raton		808.0		2,000.0		
					Vermejo		2,106.0		2,306.0		
<b>Casing Strings</b>											
Casing Description					OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)		
Surface					8 5/8	24.00	J-55	ST&C	241.0		
Casing Description					OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)		
Production					5 1/2	15.50	J-55	LT&C	2,428.0		
<b>Cement</b>											
Description					Type			String			
Surface Casing Cement					casing			Surface, 241.0ftKB			
Comment											
Cmt'd csg w/ 70 sx Midcon II, Gilsonite, Salt, Versaset. Circ 8 bbls cmt to pit.											
Description					Type			String			
Production Casing Cement					casing			Production, 2,428.0ftKB			
Comment											
Mixed & pmpd 350 sx Midcon II. Circ 28 bbls to pit.											
<b>Perforations</b>											
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone				
5/22/2005	808.0	810.0	3.0		120		Raton				
5/22/2005	867.0	869.0	3.0		120		Raton				
5/22/2005	913.0	915.0	3.0		120		Raton				
5/22/2005	960.0	962.0	3.0		120		Raton				
5/22/2005	1,042.0	1,044.0	4.0		120		Raton				
5/22/2005	1,072.0	1,073.0	4.0		120		Raton				
5/22/2005	1,176.0	1,178.0	4.0		120		Raton				
5/22/2005	1,217.0	1,218.0	4.0		120		Raton				
5/22/2005	1,238.0	1,239.0	4.0		120		Raton				
5/22/2005	1,397.0	1,399.0	3.0		120		Raton				
5/22/2005	1,452.0	1,456.0	3.0		120		Raton				
5/22/2005	1,462.0	1,464.0	3.0		120		Raton				
5/22/2005	1,497.0	1,499.0	3.0		120		Raton				
5/19/2005	1,952.0	1,956.0	3.0	0.400	120		Raton				
5/19/2005	1,980.0	1,984.0	3.0	0.400	120		Raton				
5/19/2005	1,994.0	2,000.0	3.0	0.400	120		Raton				
5/29/2001	2,106.0	2,109.0					Vermejo				
5/29/2001	2,134.0	2,141.0					Vermejo				
5/29/2001	2,210.0	2,214.0					Vermejo				
5/29/2001	2,286.0	2,289.0					Vermejo				
5/29/2001	2,296.0	2,300.0					Vermejo				
5/29/2001	2,303.0	2,306.0					Vermejo				
<b>Tubing Strings</b>											
Tubing Description					Run Date			Set Depth (ftKB)			
Tubing - Production					4/4/2013			2,414.8			
<b>Tubing Components</b>											
Item Description	Jts	Model	OD (in)	Wt (lbs/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)		
Tubing	72	T&C Upset	2 7/8	6.50	J-55		2,379.60	0.0	2,379.6		
Tubing Sub	1	T&C Upset	2 7/8	6.50	J-55		4.10	2,379.6	2,383.7		
Stator	1	30S3...	3 3/4				29.65	2,383.7	2,413.4		
No Turn Tool	1		5 1/2				1.05	2,413.4	2,414.4		
Notched Collar	1		2 7/8				0.44	2,414.4	2,414.8		
<b>Rods</b>											
Rod Description					Run Date		String Length (ft)		Set Depth (ftKB)		
Rod - Rotor					4/4/2013		2,412.40		2,412.4		
<b>Rod Components</b>											
Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)				
Polished Rod Sinker Bar	1		1 1/4		16.00	0.0	16.0				

Top (MD):808,  
Des:Raton

Top (MD):2,106,  
Des:Vermejo

Pressure Sensor,  
2,382-2,384

PBTD,  
2,485  
TD, 2,485



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