



XTO - Wellbore Diagram

Well Name: Hill Ranch 18-01V

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State
05071075680000	884.0	FEL	601.0	FNL	T35S-R67W-S18	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	94687	8,614.00	8,614.00	0.00	3/5/2002	Original Hole - 2836.0	2,920.0	PCP

Well Config: Vertical - Original Hole, 7/16/2012 1:57:16 PM

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Zone	Top (ftKB)		Btm (ftKB)	
					Raton	818.5	1,769.5		
					Vermejo	2,500.0	2,738.0		
Casing Strings									
Casing Description		OD (in)		Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)		
Surface		8 5/8		24.00	J-55		697.0		
Casing Description		OD (in)		Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)		
Production		5 1/2		15.50	J-55		2,846.0		
Cement									
Description		Type			String				
Surface Casing Cement		casing			Surface, 697.0ftKB				
Comment									
Set 8-5/8", 23.0#, M-50 csg @ 701'.									
Description		Type			String				
Production Casing Cement		casing			Production, 2,846.0ftKB				
Comment									
Cmt csg w/190 sx MidCon II cmt w/adds (14.0 ppg & 1.66 yield). Circ 21 bbls to surf.									
Perforations									
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (")	Curr... Status	Zone		
6/5/2012	818.5	819.5	3.0	0.420	120		Raton		
6/5/2012	955.5	956.5	3.0	0.420	120		Raton		
6/5/2012	979.5	980.5	3.0	0.420	120		Raton		
6/5/2012	984.0	985.0	3.0	0.420	120		Raton		
6/5/2012	1,270.5	1,271.5	3.0	0.420	120		Raton		
6/5/2012	1,299.0	1,301.0	3.0	0.420	120		Raton		
6/5/2012	1,340.0	1,341.0	3.0	0.420	120		Raton		
6/5/2012	1,439.0	1,440.0	3.0	0.420	120		Raton		
6/4/2012	1,541.0	1,542.0	3.0	0.420	120		Raton		
6/4/2012	1,622.0	1,623.0	3.0	0.420	120		Raton		
6/4/2012	1,627.5	1,628.5	3.0	0.420	120		Raton		
6/4/2012	1,663.5	1,664.5	3.0	0.420	120		Raton		
6/4/2012	1,669.0	1,670.0	3.0	0.420	120		Raton		
6/4/2012	1,708.0	1,712.0	3.0	0.420	120		Raton		
6/4/2012	1,768.5	1,769.5	3.0	0.420	120		Raton		
3/22/2002	2,500.0	2,504.0	4.0				Vermejo		
3/22/2002	2,564.0	2,567.0	4.0				Vermejo		
3/22/2002	2,573.0	2,576.0	4.0				Vermejo		
3/22/2002	2,653.0	2,658.0	4.0				Vermejo		
3/22/2002	2,661.0	2,664.0	4.0				Vermejo		
3/22/2002	2,711.0	2,716.0	4.0				Vermejo		
3/22/2002	2,734.0	2,738.0	4.0				Vermejo		
Tubing Strings									
Tubing Description		Run Date		Set Depth (ftKB)					
Tubing - Production		6/8/2012		2,794.3					
Tubing Components									
Item Description	Jts	Model	OD (in)	Wt (lbs/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	90	T&C Upset	2 7/8	6.50	J-55		2,774.13	0.0	2,774.1
Tubing Sub		T&C Upset	2 7/8	6.50	J-55		4.10	2,774.1	2,778.2
Stator		40S0...	2 3/4				14.45	2,778.2	2,792.7
No Turn Tool			5 1/2				1.20	2,792.7	2,793.9
Notched Collar			2 7/8				0.44	2,793.9	2,794.3
Rods									
Rod Description		Run Date		String Length (ft)		Set Depth (ftKB)			
Rod - Rotor		6/8/2012		2,793.91		2,791.0			
Rod Components									
Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)		
Polished Rod	1		1 1/4		16.00	-2.9	13.1		
Rod Guide	1		7/8	D	2.00	13.1	15.1		



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