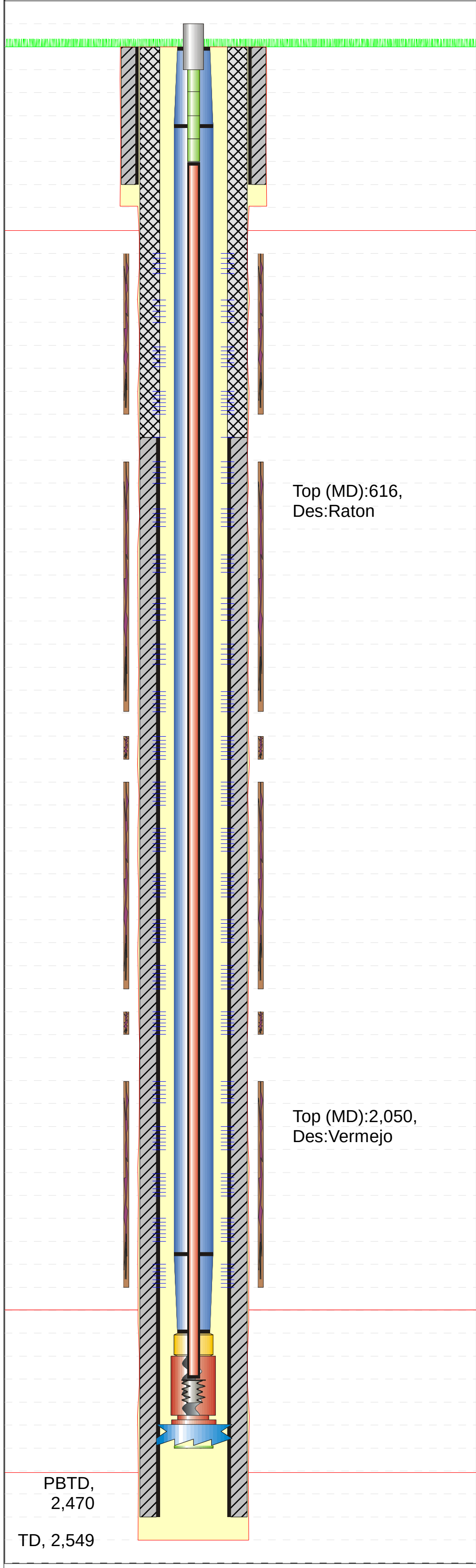
XTO - Wellbore Diagram

Well Name: Hill Ranch 32-05

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State/Province
05071063500000	1,172.0	FWL	1,459.0	FNL	T34S-R67W-S32	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	94718	8,141.00	8,141.00	0.00	6/7/1997	Original Hole - 2470.0	2,549.0	PCP

Well Config: Vertical - Original Hole, 12/18/2013 10:42:03 AM

Schematic - Actual



Incl	ftKB (TVD)	ftKB (MD)
		-3
		0
		13
		15
		19
		25
		33
		224
		225
		414
		616
		617
		657
		658
		738
		740
		813
		815
		850
		972
		973
		1,010
		1,011
		1,020
		1,022
		1,050
		1,051
		1,095
		1,096
		1,176
		1,178
		1,211
		1,216
		1,272
		1,276
		1,297
		1,302
		1,325
		1,331
		1,344
		1,348
		1,351
		1,357
		1,377
		1,386
		1,544
		2,050
		2,054
		2,100
		2,104
		2,110
		2,112
		2,120
		2,124
		2,142
		2,148
		2,157
		2,251
		2,258
		2,258
		2,272
		2,273
		2,274
		2,468
		2,470
		2,540
		2,549

Zones

Zone	Top (ftKB)	Btm (ftKB)
Raton	616.0	1,386.0
Vermejo	2,050.0	2,148.0

Casing Strings

Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftK...
Surface	7	15.00			224.0
Casing Description	**OD (in)**	**Wt (lbs/ft)**	**String Grade**	**Top Connection**	**Set Depth (ftK...**
Production	4 1/2	9.50			2,540.0

Cement

Description	Type	String
Surface Casing Cement	casing	Surface, 224.0ftKB
Comment		
Description	**Type**	**String**
Production Casing Cement	casing	Production, 2,540.0ftKB
Comment		
TOC uknown.		
Description	**Type**	**String**
Cement Squeeze	squeeze	Production, 2,540.0ftKB
Comment		

Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone
8/29/2007	616.0	617.0			120		Raton
8/29/2007	657.5	658.5			120		Raton
8/29/2007	738.0	740.0			120		Raton
8/29/2007	813.0	815.0			120		Raton
9/17/1997	850.0	850.0					
8/14/2007	972.5	973.5			120		Raton
8/14/2007	1,010.0	1,011.0			120		Raton
8/14/2007	1,020.5	1,021.5			120		Raton
8/14/2007	1,049.5	1,050.5			120		Raton
8/14/2007	1,095.0	1,096.0			120		Raton
8/14/2007	1,176.0	1,178.0			120		Raton
7/22/1997	1,211.0	1,216.0	4.0				Raton
7/21/1997	1,272.0	1,276.0	4.0				Raton
7/21/1997	1,297.0	1,302.0	4.0				Raton
7/21/1997	1,325.0	1,331.0	4.0				Raton
7/21/1997	1,344.0	1,348.0	4.0				Raton
7/21/1997	1,351.0	1,357.0	4.0				Raton
7/19/1997	1,377.0	1,386.0	4.0				Raton
6/1/2000	2,050.0	2,054.0	2.0				Vermejo
6/1/2000	2,100.0	2,104.0	2.0				Vermejo
6/1/2000	2,110.0	2,112.0	2.0				Vermejo
6/1/2000	2,120.0	2,124.0	2.0				Vermejo
6/1/2000	2,142.0	2,148.0	2.0				Vermejo

Tubing Strings

Tubing Description	Run Date	Set Depth (ftKB)
Tubing - Production	1/31/2012	2,274.4

Tubing Components

Item Description	Jts	Model	OD (in)	Wt (lbs/...	Gra...	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	72	T&C Upset	2 3/8	4.70	J-55		2,251.33	0.0	2,251.3
Tubing Sub	1	T&C Upset	2 3/8	4.70	J-55		6.10	2,251.3	2,257.4
Stator	1	30S0...	2 3/4				15.50	2,257.4	2,272.9
No Turn Tool	1		4 1/2				1.20	2,272.9	2,274.1
Notched Collar	1		2 3/8				0.30	2,274.1	2,274.4

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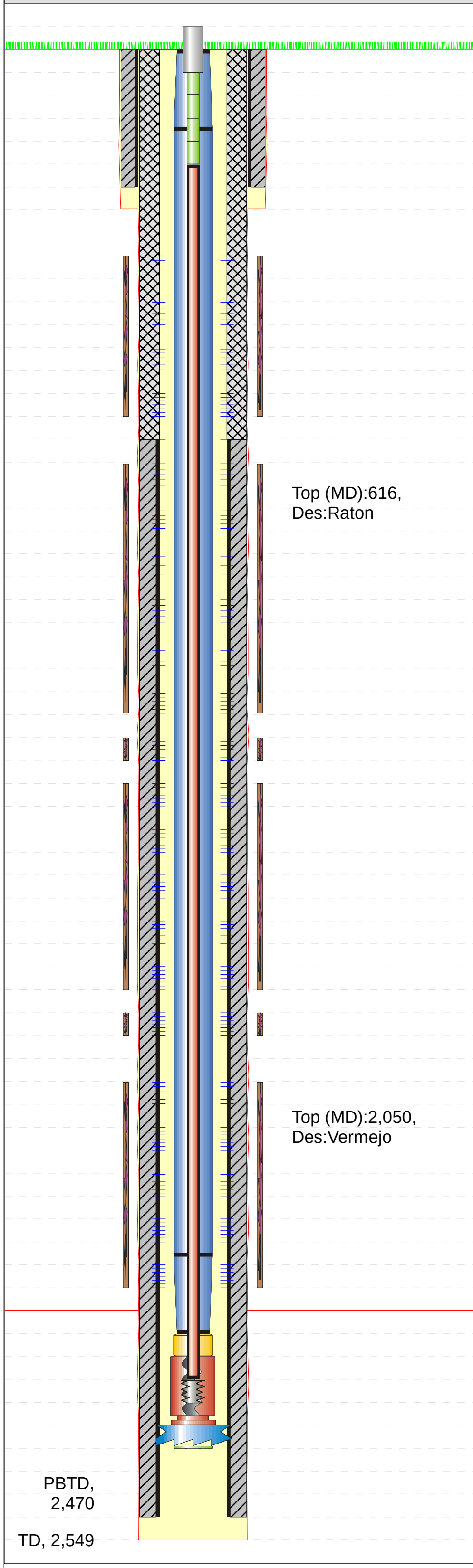
Schematic - Actual	Incl	ftKB (TVD)	ftKB (MD)



ftKB (MD): -3, 0, 13, 15, 19, 25, 33, 224, 225, 414, 616, 617, 657, 658, 738, 740, 813, 815, 850, 972, 973, 1,010, 1,011, 1,020, 1,022, 1,050, 1,051, 1,095, 1,096, 1,176, 1,178, 1,211, 1,216, 1,272, 1,276, 1,297, 1,302, 1,325, 1,331, 1,344, 1,348, 1,351, 1,357, 1,377, 1,386, 1,544, 2,050, 2,054, 2,100, 2,104, 2,110, 2,112, 2,120, 2,124, 2,142, 2,148, 2,157, 2,251, 2,258, 2,258, 2,272, 2,273, 2,274, 2,468, 2,470, 2,540, 2,549

Rods

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)
Rod - Rotor	1/31/2012	2,275.00	2,272.0

Rod Components

Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod	1		1 1/4		16.00	-3.0	13.0
Rod Sub	1		3/4	D	2.00	13.0	15.0
Rod Sub	1	S-88	3/4	D	4.00	15.0	19.0
Rod Sub	1	S-88	3/4	D	6.00	19.0	25.0
Rod Sub	1	S-88	3/4	D	8.00	25.0	33.0
Sucker Rod w/Snap On Guides	89	30N095	3/4	D	2,225.00	33.0	2,258.0
Rotor		40S045	1 1/2		14.00	2,258.0	2,272.0

Stimulations & Treatments

Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
7/21/1997	1377	1386						

Comment

Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
7/21/1997	1272	1357						

Comment

Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
7/22/1997	1211	1216						

Comment

Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
6/2/2000	2050	2148						

Comment

Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
8/29/2007								705.0

Comment

Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
8/29/2007								802.0

Comment