

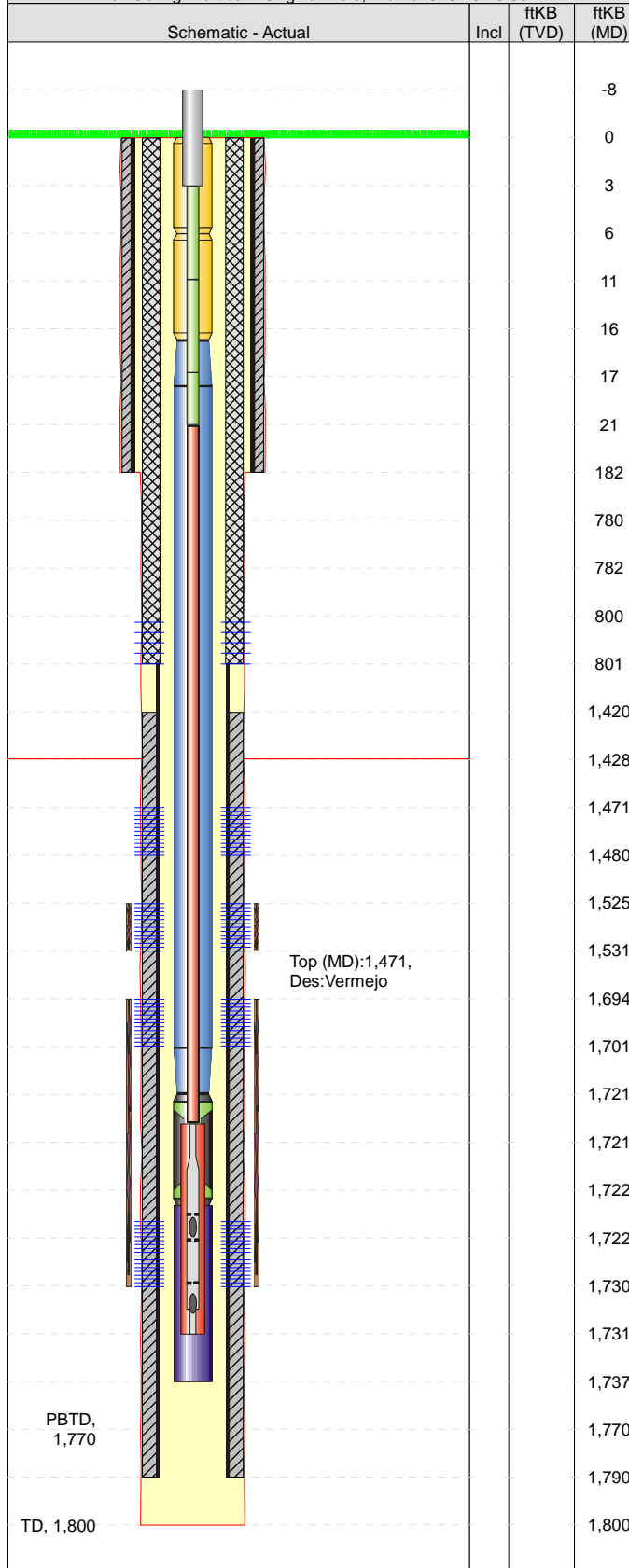


XTO - Wellbore Diagram

Well Name: Apache Canyon 14-03

API/UWI 05071063380000	E/W Dist (ft) 2,305.0	E/W Ref FWL	N/S Dist (ft) 301.0	N/S Ref FNL	Location T34S-R68W-S14	Field Name Purgatoire River	County Las Animas	State/Province Colorado
Well Configuration Type Vertical	XTO ID B 94543	Orig KB Elev (ft) 8,040.00	Gr Elev (ft) 8,040.00	KB-Grd (ft) 0.00	Spud Date 6/10/1996	PBTD (All) (ftKB) Original Hole - 1770.0	Total Depth (ftKB) 1,800.0	Method Of Production Beam

Well Config: Vertical - Original Hole, 12/17/2013 10:19:35 AM



Zones

Zone	Top (ftKB)	Btm (ftKB)
Vermejo	1,471.0	1,730.0

Casing Strings

Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)
Surface	7 5/8	20.00			182.0
Production	4 1/2	9.50			1,790.0
Item Description	OD (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Bottom (ftKB)
DV Tool	4 1/2			780.0	782.0

Cement

Description	Type	String
Surface Casing Cement	casing	Surface, 182.0ftKB
Comment Cmtd w/18 sx Portland A. Circ cmt to surf.		
Production Casing Cement	casing	Production, 1,790.0ftKB
Comment Pmpd 100sx. 50/50 pos mixture, 40 sx in 4-1/2" csg, 60 sx outside of csg putting approx. 800 on outside if no coals broke dwn.		
Cement Squeeze	squeeze	Production, 1,790.0ftKB
Comment Pmpd 110 sk 50/50 poz. Cmtd to surf		

Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone
6/18/1996	800.0	801.0	2.0			Sq...	
7/16/1996	1,471.0	1,480.0	4.0	0.380		Ac...	Vermejo
7/15/1996	1,525.0	1,531.0	4.0	0.380		Ac...	Vermejo
7/9/1996	1,694.0	1,701.0	4.0	0.380		Ac...	Vermejo
7/9/1996	1,722.0	1,730.0	4.0	0.380		Ac...	Vermejo

Tubing Strings

Tubing Description	Run Date	Set Depth (ftKB)
Tubing - Production	6/27/2011	1,737.0

Tubing Components

Item Description	Jts	Model	OD (in)	Wt (lbs/ft)	Gra...	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Sub	1	T&C Upset	2 3/8	4.75	J-55		6.25	0.0	6.2
Tubing Sub	1		2 3/8	4.75	J-55		10.30	6.2	16.5
Tubing	54	T&C Upset	2 3/8	4.70	J-55		1,704.24	16.5	1,720.8
Seat Nipple	1		2 3/8		J-55		1.10	1,720.8	1,721.9
OEMA	1		2 3/8	4.70	J-55		15.10	1,721.9	1,737.0

Rods

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)
Insert Pump	6/27/2011	1,739.00	1,731.0

Rod Components

Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod	1		1 1/4		11.00	-8.0	3.0
Rod Sub	1		3/4	D	8.00	3.0	11.0
Rod Sub	1		3/4	D	6.00	11.0	17.0
Rod Sub	1		3/4	D	4.00	17.0	21.0
Sucker Rod w/Snap On Guides	68		3/4	D	1,700.00	21.0	1,721.0
Rod Insert Pump	1	RWAC	1 1/2		10.00	1,721.0	1,731.0

Stimulations & Treatments

Frac Start Date	Top Perf (ft...)	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
7/15/1996	1694	1730		262,00...				

Comment
500 gals 15% acid, 230,000 scf N2, & 32,000# 20/40 sd



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Stimulations & Treatments

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Frac Start Date	Top Perf (ft...)	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
					7/15/1996	1525	1531		30,000.0				
					Comment 100 gals 15% acid, 100,000 scf N2, 25,000# 20/40 sd, & 5,000# 10/20 sd								
				-8									
				0									
				3									
				6									
				11									
				16									
				17									
				21									
				182									
				780									
				782									
				800									
				801									
				1,420									
				1,428									
				1,471									
				1,480									
				1,525									
				1,531									
Top (MD):1,471, Des:Vermejo				1,694									
				1,701									
				1,721									
				1,721									
				1,722									
				1,722									
				1,730									
				1,731									
				1,737									
				1,770									
				1,790									
				1,800									
PBTD, 1,770													
TD, 1,800													