



XTO - Wellbore Diagram

Well Name: Apache Canyon 16-08

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State/Province
05071063000000	507.0	FEL	1,322.0	FNL	T34S-R67W-S16	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	94545	7,140.00	7,140.00	0.00	11/13/1996	Original Hole - 1522.0	1,529.0	Beam

Well Config: Vertical - Original Hole, 12/19/2013 9:27:41 AM

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Zones									
					Zone		Top (ftKB)		Btm (ftKB)					
					Vermejo		1,236.0		1,363.0					
Casing Strings														
-8	Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)								
	Surface	7	20.00			224.0								
0	Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)								
	Production	4 1/2	10.50			1,522.0								
Cement														
4	Description	Type	String											
	Surface Casing Cement	casing	Surface, 224.0ftKB											
Comment														
8	Description	Type	String											
	Production Casing Cement	casing	Production, 1,522.0ftKB											
Comment														
Perforations														
22	Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone						
		1,236.0	1,240.0					Vermejo						
30		1,249.0	1,257.0					Vermejo						
		1,348.0	1,350.0					Vermejo						
		1,359.0	1,363.0					Vermejo						
Tubing Strings														
1,236	Tubing Description	Run Date	Set Depth (ftKB)											
	Tubing - Production	8/31/2005	1,425.0											
Tubing Components														
1,240	Item Description	Jts	Model	OD (in)	Wt (lbs/...	Gra...	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)				
	Tubing Sub	1		2 7/8	6.50	J-55		4.10	0.0	4.1				
1,249	Tubing	45	T&C Upset	2 7/8	6.50	J-55		1,404.84	4.1	1,408.9				
	Seat Nipple	1		2 7/8		J-55		1.10	1,408.9	1,410.0				
1,257	OEMA w/ 1/4 Weep Hole	1		2 7/8	6.50	J-55		15.00	1,410.0	1,425.0				
Rods														
1,348	Rod Description	Run Date	String Length (ft)					Set Depth (ftKB)						
	Insert Pump	1/7/2008	1,423.00					1,415.0						
Rod Components														
1,359	Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)						
	Polished Rod	1		1 1/4		16.00	-8.0	8.0						
1,363	Rod Sub	1		3/4	D	2.00	8.0	10.0						
	Rod Sub	1		3/4	D	4.00	10.0	14.0						
1,405	Rod Sub	1		3/4	D	8.00	14.0	22.0						
	Rod Sub	1		3/4	D	8.00	22.0	30.0						
1,409	Sucker Rod w/Snap On Guides	55		3/4	D	1,375.00	30.0	1,405.0						
	Rod Insert Pump	1	RWAC	1 1/2		10.00	1,405.0	1,415.0						
Stimulations & Treatments														
1,410	Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)					
		1348	1363											
Comment														
1,415	IHS 297 Well Import													
	Test number: 001													
1,425	Measurement: gal lb													
	Remarks: 20/40 sd													
1,522	Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)					
		1236	1257											
Comment														
1,529	IHS 297 Well Import													
	Test number: 001													
Measurement: gal lb														
Remarks: 20/40 sd														

Top (MD):1,236,
Des:Vermejo

PBTD,
1,522

TD, 1,529

PBTD, 1,522

TD, 1,529