



XTO - Wellbore Diagram

Well Name: Apache Canyon 09-08

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State
05071096920000	753.0	FEL	1,925.0	FNL	T34S-R67W-S09	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	96717	7,655.00	7,655.00	0.00	7/7/2011	Original Hole - 2138.0	2,210.0	PCP

Well Config: Vertical - Original Hole, 7/20/2012 12:36:28 PM

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Zones						
					Top (ftKB)		Btm (ftKB)				
				-4	Raton		542.5		1,075.5		
				0	Vermejo		1,697.0		1,932.0		
				3	Casing Strings						
				12	Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftK...	
				34	Conductor	13 3/8	54.50	J-55	ST&C	45.8	
				45	Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftK...	
				46	Surface	8 5/8	24.00	J-55	ST&C	537.7	
				46	Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftK...	
				537	Production	5 1/2	15.50	J-55	LT&C	2,185.0	
				538	Item Description	OD (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Bottom (ftKB)	
				543	Stage Tool	5 1/2			1,497.6	1,500.0	
				544	Item Description	OD (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Bottom (ftKB)	
				545	External Casing Packer	5 1/2			1,500.0	1,506.6	
				548	Cement						
				568	Description	Type		String			
				570	Conductor Casing Cement	casing		Conductor, 45.8ftKB			
				656	Comment						
				657	RU Halliburton, pump 21 bbl water, circ to surf, no fall back, mix & pump 75 sx Trinidad						
				672	surf blend, 14.0 ppg, 1.66 yield, circ cement to surf, check fall back, ok, disp w/ 3.5 bbl						
				673	water, final press @ 40 psi, shut in, PD @ 17:00 hrs, 7/7/2011.						
				707							
				720	Description	Type		String			
				721	Surface Casing Cement	casing		Surface, 537.7ftKB			
				776	Comment						
				777	RU Halliburton, pump 75 bbl water, unable to circ to surf, mix & pump 40 bbl gel water w/						
				844	LCM, circ to surf, fluid level dropped below surf, pump 12 bbl water, circ to surf, 3' fall						
				845	back, mix & pump 240 sx Trinidad surf blend w/ poly-flakes in fist 10 bbl of cement, 14.0						
				884	ppg, 1.66 yield, circ cement to surf, dropped 3', disp w/ 26 bbl water, hesitate 10 min, disp						
				886	2 bbl water, no fall back, circ 25 bbl cement to surf, PD @ 09:30 hrs, 7/8/2011.						
				905							
				906	Description	Type		String			
				926	Production Casing Cement	casing		Production, 2,185.0ftKB			
				929	Comment						
				1,064	RU Halliburton, 1st stage: pump 20 bbl water, 30 bbl gel water w/ 30# poly-flakes, mix &						
				1,065	pump 110 sx Tuned light system, 10.0 ppg, 2.30 yield, drop plug, disp w/ 51 bbl water,						
				1,074	final press @ 0 psi, bump plug @ 720 psi, float held ok, recovered 12 bbl cement to surf						
				1,075	F/ first stage, set packer, drop bomb, open DV tool @ 1680 psi, 2nd stage: pump 30 bbl						
				1,490	gel water w/ 60# poly-flakes, mix & pump 200 sx Tuned light system, 10.0 ppg, 2.30 yield,						
				1,498	drop plug, disp w/ 35.7 bbl water, final pump press @ 300 psi, recovered 20 bbl cement to						
				1,500	surf, bump plug @ 1930 psi, held ok, PD @ 16:00 hrs, 7/9/2011.						
				1,507							
				1,697							
				1,699							
				1,731							
				1,732							
				1,747							
				1,748							
				1,860							
				1,861							
				1,865							
				1,866							
				1,869							
				1,870							
				1,910							
				1,911							
				1,918							
				1,929							
				1,930							
				1,931							
				1,932							
				2,012							
				2,012							
				2,016							
				2,016							
				2,029							
				2,029							
				2,030							
				2,031							
				2,138							
				2,139							
				2,184							
				2,185							
				2,210							

Top (MD):543,
Des:Raton

Top (MD):1,697,
Des:Vermejo

PBTD,
2,138

TD, 2,210

Perforations							
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone
6/20/2012	542.5	543.5	4.0	0.420	120		Raton
6/20/2012	547.0	548.0	4.0	0.420	120		Raton
6/20/2012	567.5	569.5	4.0	0.420	120		Raton
6/20/2012	656.5	657.5	3.0	0.420	120		Raton
6/20/2012	672.0	673.0	4.0	0.420	120		Raton
6/20/2012	707.0	708.0	3.0	0.420	120		Raton
6/20/2012	720.0	721.0	3.0	0.420	120		Raton
6/20/2012	775.5	776.5	3.0	0.420	120		Raton
6/20/2012	844.0	845.0	4.0	0.420	120		Raton
6/20/2012	884.0	886.0	4.0	0.420	120		Raton
6/20/2012	904.5	905.5	3.0	0.420	120		Raton
6/20/2012	926.0	929.0	4.0	0.420	120		Raton
6/20/2012	1,064.0	1,065.0	3.0	0.420	120		Raton
6/20/2012	1,074.5	1,075.5	3.0	0.420	120		Raton
6/20/2012	1,697.0	1,699.0	4.0	0.420	120		Vermejo
6/20/2012	1,731.0	1,732.0	4.0	0.420	120		Vermejo
6/20/2012	1,747.0	1,748.0	3.0	0.420	120		Vermejo
6/20/2012	1,859.5	1,860.5	3.0	0.420	120		Vermejo
6/20/2012	1,865.0	1,866.0	3.0	0.420	120		Vermejo
6/20/2012	1,869.0	1,870.0	4.0	0.420	120		Vermejo

PBTD,
2,138

TD, 2,210

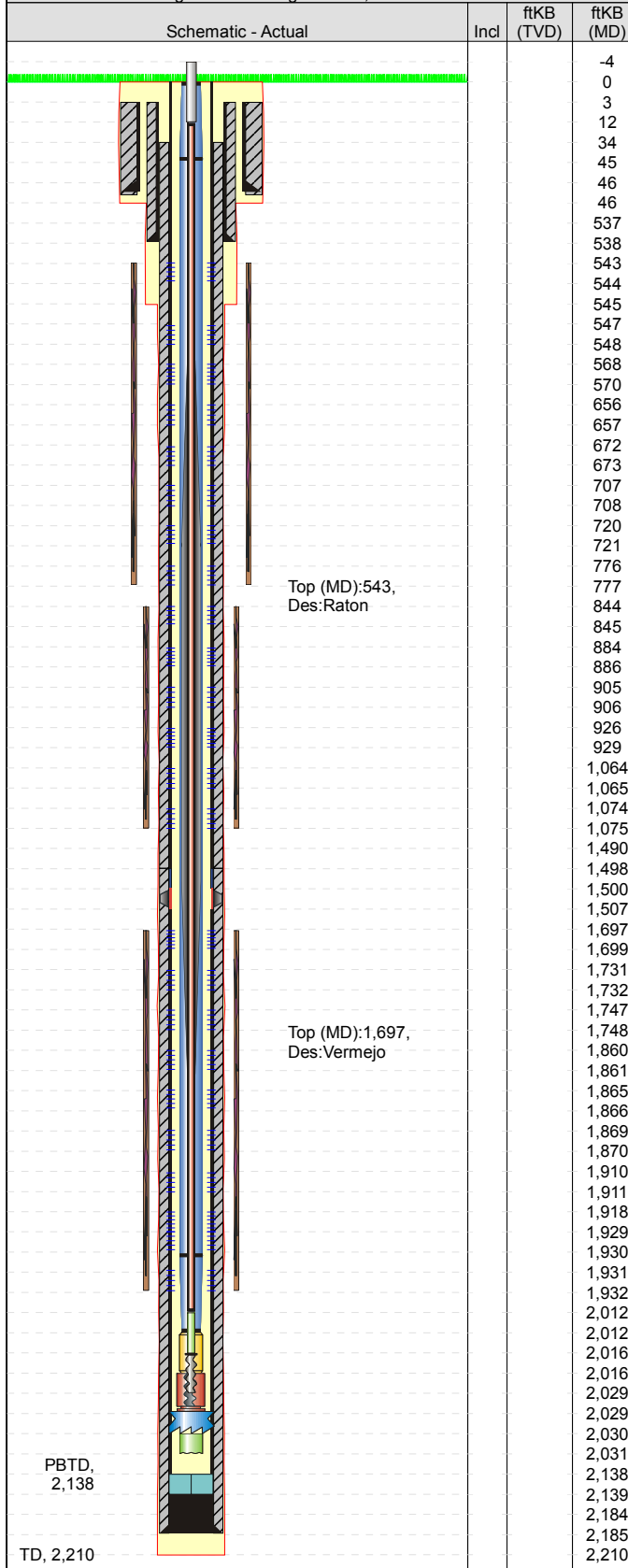


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Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone
6/20/2012	1,910.5	1,911.5	4.0	0.420	120		Vermejo
6/20/2012	1,918.0	1,929.0	3.0	0.420	120		Vermejo
6/20/2012	1,929.0	1,930.0	3.0	0.420	120		Vermejo
6/20/2012	1,931.0	1,932.0	3.0	0.420	120		Vermejo

Tubing Strings

Tubing Description	Run Date	Set Depth (ftKB)
Tubing - Production	6/25/2012	2,030.6

Tubing Components

Item Description	Jts	Model	OD (in)	Wt (lbs/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	61	T&C Upset	2 7/8	6.50	J-55		2,012.46	0.0	2,012.5
Tubing Sub	1	T&C Upset	2 7/8	6.50	J-55		4.10	2,012.5	2,016.6
Stator	1	30N0...	3 1/2				12.57	2,016.6	2,029.1
No Turn Tool	1		5 1/2				1.05	2,029.1	2,030.2
Notched Collar	1		2 7/8				0.44	2,030.2	2,030.6

Rods

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)
Rod - Rotor	6/25/2012	2,032.42	2,028.5

Rod Components

Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod	1		1 1/4		16.00	-3.9	12.1
Sucker Rod w/Molded Guides	80		7/8	D	2,000.00	12.1	2,012.1
Pony Rod	1		7/8		4.00	2,012.1	2,016.1
Rotor	1	30N095	1 1/2		12.42	2,016.1	2,028.5

Stimulations & Treatments

Frac Start Date	Top Perf (ft...)	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
6/20/2012	1697	1932		140,48...	62	540.0	831.0	0.0
Comment								
Frac Start Date	Top Perf (ft...)	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
6/20/2012	844	1075.5		91,843.0	40	1,029.0	1,34...	571.0
Comment								
Frac Start Date	Top Perf (ft...)	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
6/20/2012	542.5	776.5		114,60...	48	1,424.0	1,56...	532.0
Comment								