



XTO - Wellbore Diagram

Well Name: Hill Ranch 25-05V

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State/Province
05071073610000	1,212.0	FWL	2,225.0	FNL	T34S-R67W-S25	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	94692	7,538.00	7,538.00	0.00	5/24/2001	Original Hole - 2016.0	2,065.0	PCP

Well Config: Vertical - Original Hole, 10/22/2013 9:27:54 AM

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Zones						
					Zone		Top (ftKB)		Btm (ftKB)		
					Raton		558.0		1,011.0		
					Vermejo		1,596.0		1,899.0		
					Casing Strings						
Casing Description		OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftK...					
Surface		8 5/8	24.00	J-55		513.0					
Casing Description		OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftK...					
Production		5 1/2	15.50	J-55		2,043.0					
					Cement						
Description		Type			String						
Surface Casing Cement		casing			Surface, 513.0ftKB						
					Comment						
					Cmt'd w/140 sks. Circ cmt to surf.						
Description		Type			String						
Production Casing Cement		casing			Production, 2,043.0ftKB						
					Comment						
					Cmt'd w/300 sks. Circ cmt to surf.						
					Perforations						
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone				
5/3/2006	558.0	560.0	3.0	0.400	120		Raton				
5/3/2006	601.0	603.0	3.0	0.400	120		Raton				
5/3/2006	643.0	644.0	3.0	0.400	120		Raton				
5/3/2006	649.0	650.0	3.0	0.400	120		Raton				
5/3/2006	685.0	686.0	3.0	0.400	120		Raton				
5/3/2006	708.0	709.0	3.0	0.400	120		Raton				
5/3/2006	840.0	841.0	3.0	0.400	120		Raton				
5/3/2006	882.0	883.0	3.0	0.400	120		Raton				
5/3/2006	903.0	905.0	3.0	0.400	120		Raton				
5/3/2006	987.0	988.0	3.0	0.400	120		Raton				
5/3/2006	1,010.0	1,011.0	3.0	0.400	120		Raton				
11/18/2001	1,596.0	1,604.0					Vermejo				
11/18/2001	1,671.0	1,682.0					Vermejo				
11/18/2001	1,839.0	1,842.0					Vermejo				
11/18/2001	1,881.0	1,899.0					Vermejo				
					Tubing Strings						
Tubing Description		Run Date			Set Depth (ftKB)						
Tubing - Production		12/31/2012			1,944.5						
					Tubing Components						
Item Description	Jts	Model	OD (in)	Wt (lbs/...	Gra...	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)		
Tubing	60	T&C Upset	2 7/8	6.50	J-55		1,926.61	0.0	1,926.6		
Tubing Sub	1	T&C Upset	2 7/8	6.50	J-55		4.10	1,926.6	1,930.7		
Stator	1	30N0...	3 1/2				12.27	1,930.7	1,943.0		
No Turn Tool	1		5 1/2				1.05	1,943.0	1,944.0		
Notched Collar	1		2 7/8				0.44	1,944.0	1,944.5		
					Rods						
Rod Description		Run Date			String Length (ft)		Set Depth (ftKB)				
					Rod Components						
Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)				
					Stimulations & Treatments						
Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)			
11/18/2001	1881	1899									
					Comment						
					Slickwater frac using 21500# 20/40 sand and 558 bbls fluid.						
Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)			
11/18/2001	1839	1842									
					Comment						
					Slickwater frac using 15300 # 20/40 and 526 bbls fluid.						

PBTD, 2,016

TD, 2,065

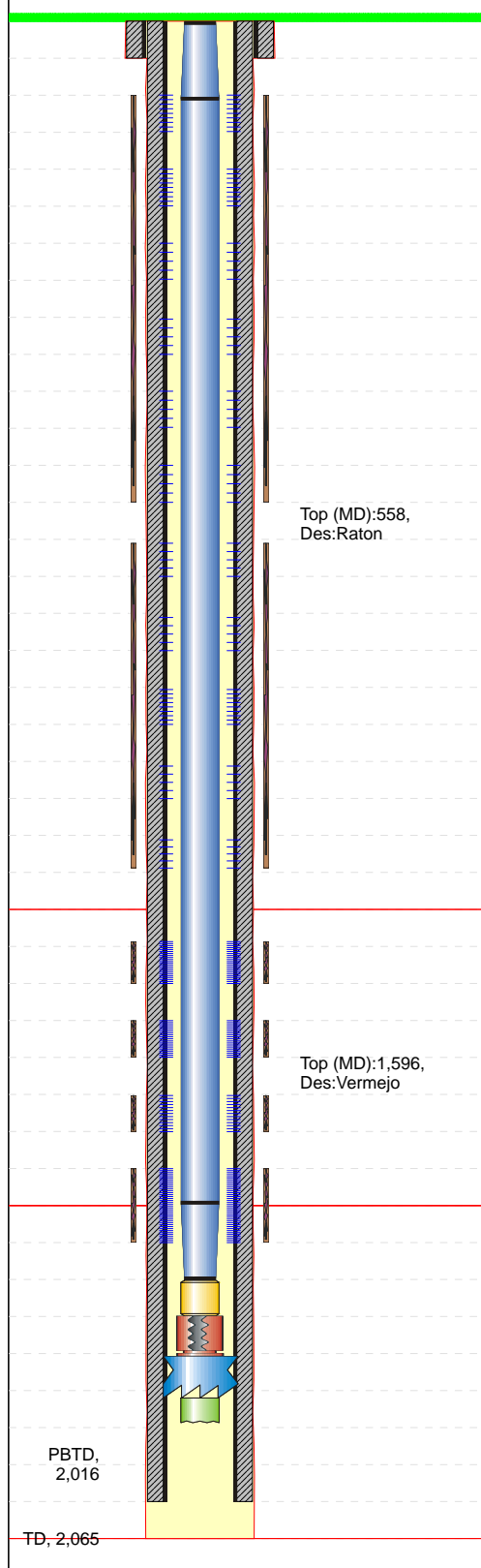


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Well Config: Vertical - Original Hole, 10/22/2013 9:27:54 AM

Schematic - Actual				Incl	ftKB (TVD)	ftKB (MD)	Stimulations & Treatments									
							11/18/2001	1671	1682	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)	
							Comment									
							513	Slickwater frac using 17500# 20/40 and 458 bbls fluid.								
							11/18/2001	1596	1604	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)	
							558	Comment								
							560	Slickwater frac using 16400# 20/40 and 439 bbl fluid.								
							601	Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
							5/3/2006	840	1011	1469.17					787.0	
							603	Comment								
							643	RIH w/dump blr. Sptd 5 gals 28% HCl ac @ 1,010'. BD perfs @ 593 psig & 3.1 BPM w/PW. Ppd 500 gals 15% HCL ac @ 593 psig & 2.8 BPM. Frac Raton Coal fr/840' - 1,011' dwn 5-1/2" csg w/61,075 gals 20# Delta 140 carrying 6,200# 16/30 & 104,942# 12/20 Brady sd. AIR 33 BPM, ATP 696 psig, ISIP 787 psig, 10 min 288 psig. 1,482 BLWTR.								
							649	Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
							5/4/2006	558	709	1959.60					588.0	
							650	Comment								
							685	PT lines & WH equip to 4,200 psig. Tstd OK. BD perfs @ 469 psig & 3.4 BPM w/PW. Ppd 1,000 gals 15% HCL ac @ 479 psig & 2.9 BPM. Frac Raton Coal fr/558' - 709' dwn 5-1/2" csg w/82,303 gals 20# Delta 140 w/sandwedge NT carrying 14,100# 16/30 & 146,790# 12/20 Brady sd. AIR 38.3 BPM, ATP 900 psig, ISIP 588 psig, 10 min 270 psig. 1,983 BLWTR. 3,465 ttl BLWTR. RDMO Patterson WL & HES frac equip. SWI. SDFN.								
							686									
							708									
							709									
							840									
							841									
							882									
							883									
							903									
							905									
							987									
							988									
							1,010									
							1,011									
							1,595									
							1,596									
							1,604									
							1,671									
							1,682									
							1,839									
							1,842									
							1,881									
							1,896									
							1,899									
							1,927									
							1,931									
							1,943									
							1,944									
							1,945									
							2,016									
							2,043									
							2,065									