



XTO - Wellbore Diagram

Well Name: PCU T78X-12G13

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State
05103117230000	1,029.0	FEL	339.0	FSL	T02S-R97W-S12	Piceance Creek	Rio Blanco	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
Directional	506000	7,289.10	7,263.00	26.10	1/5/2012		13,334.0	

Well Config: Directional - Original Hole, 10/9/2012 12:44:21 PM

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Zones									
					Zone		Top (ftKB)			Btm (ftKB)				
				0	Casing Strings									
					Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
					Conductor	16	52.50	H40		146.0				
		0.1	26	26	Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
		0.2	52	52	Surface	10 3/4	45.50	J-55	Buttress Thread	3,919.0				
		0.4	120	120	Item Description	OD (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Bottom (ftKB)				
		0.4	120	120	DV Tool	10 3/4	45.50	J-55	1,481.9	1,484.6				
		0.5	146	146	Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
					Intermediate	7	26.00	P-110	Hydril 513	9,179.2				
		1.1	237	237	Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
					Production	4 1/2	15.10	P110	Hydril 563	13,318.8				
		14.6	1,341	1,359	Cement									
					Description	Type			String					
					Conductor Casing Cement	casing			Conductor, 146.0ftKB					
		14.6	1,460	1,482	Comment									
		14.6	1,462	1,485	Description	Type			String					
					Surface Casing Cement	casing			Surface, 3,919.0ftKB					
		13.3	3,338	3,419	Comment									
					Good Cmt									
		14.2	3,823	3,919	Description	Type			String					
					Intermediate Casing Cement	casing			Intermediate, 9,179.2ftKB					
		14.2	3,838	3,934	Comment									
		2.6	6,422	6,545	Description	Type			String					
					Production Casing Cement	casing			Production, 13,318.8ftKB					
		2.3	7,154	7,277	Comment									
					Good Cmt									
		2.3	7,157	7,280										
		2.4	8,150	8,274	Perforations									
		2.4	8,153	8,277	Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone		
		3.0	8,965	9,090										
		3.0	8,967	9,092	Tubing Strings									
					Tubing Description	Run Date			Set Depth (ftKB)					
		2.8	9,048	9,174										
		2.8	9,054	9,179	Tubing Components									
					Item Description	Jts	Model	OD (in)	Wt (lbs/...	Gra...	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
		2.8	9,065	9,190										
		2.9	9,134	9,259	Rods									
					Rod Description	Run Date			String Length (ft)			Set Depth (ftKB)		
		2.9	9,137	9,262										
		3.2	10,173	10,301	Rod Components									
					Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)		
		3.2	10,176	10,303										
		5.5	11,176	11,306	Stimulations & Treatments									
					Frac Start Date	Top Perf (ft...	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)	
		5.6	11,179	11,309	Comment									
		3.2	12,176	12,311										
		3.2	12,179	12,314										
				13,230										
				13,232										
				13,315										
				13,319										
				13,334										

TD, 13,334

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13,334