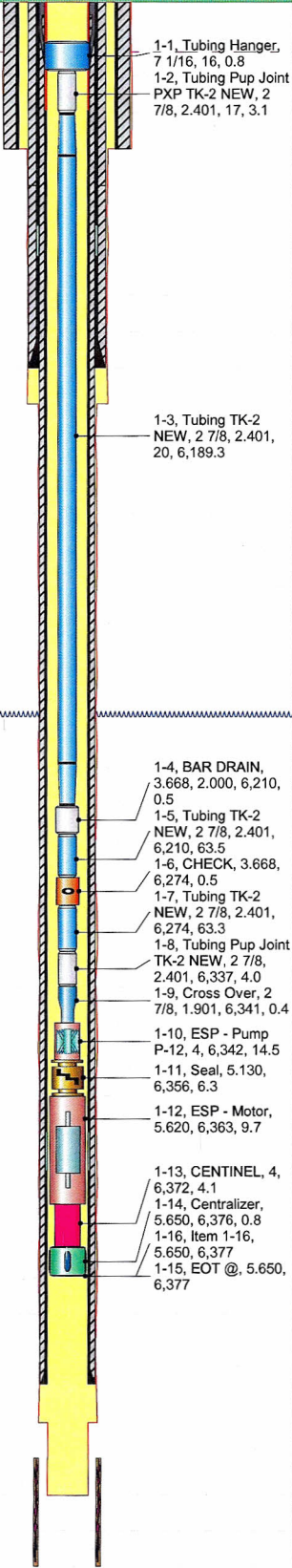


Logging Summary

Well Name Emerald 94X	Lease Emerald	Field Name Rangely	Business Unit Mid-Continent/Alaska	
Ground Elevation (ft) 5,504.00	Original RKB Elevation (ft) 5,520.00	Current RKB Elevation (ft) 5,520.00	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) 16.00	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft) 16.75	Current KB to Tubing Head (ft)	

Prod Tree Loc: - Original Hole, 8/8/2011 12:00:00 PM			Tubing Strings										
ftKB (MD)	ftKB (TVD)	Incl	Schematic - Actual	Tubing Description		Planned Run?		Set Depth (ftKB)		Set Depth (TVD) (ftKB)			
				Tubing - Production		No		6,377.3		6,243.4			
0				Run Date		Run Job		Pull Date		Pull Job			
16				8/8/2011		Complete, 6/28/2011 12:00							
16				Jts	Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	
17					Tubing Hanger	7					0.80	16.4	
20						1/16							
96						Tubing Pup Joint PXP TK-2 NEW	2 7/8	2.401	6.50	J-55		3.15	17.2
116					197	Tubing TK-2 NEW	2 7/8	2.401	6.50	J-55		6,189.27	20.4
1,915	1,918	0.6				BAR DRAIN	3.668	2.000				0.50	6,209.7
1,920	1,920	0.6			2	Tubing TK-2 NEW	2 7/8	2.401	6.50	J-55		63.45	6,210.2
2,001	2,000	0.9				CHECK	3.668					0.50	6,273.6
2,001	2,001	0.9			2	Tubing TK-2 NEW	2 7/8	2.401	6.50	J-55		63.29	6,274.1
2,002	2,001	1.0				Tubing Pup Joint TK-2 NEW	2 7/8	2.401	6.50	J-55		4.05	6,337.4
2,025	2,025	1.0				Cross Over	2 7/8	1.901				0.40	6,341.5
3,272	3,254	15.5				ESP - Pump P-12	4					14.50	6,341.9
3,641	3,610	16.4				Seal	5.13					6.30	6,356.4
3,745	3,712	18.3				ESP - Motor	5.62					9.70	6,362.7
4,445	4,376	17.0				CENTINEL	4					4.10	6,372.4
4,571	4,497	16.2				Centralizer	5.65					0.80	6,376.5
4,700	4,621	17.3				EOT @	5.65						6,377.3
4,785	4,702	16.6					5.65						6,377.3
5,445	5,337	16.0			Rods								
5,565	5,452	16.6			Rod Description		Planned Run?		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		
5,652	5,532	16.5				No							
6,077	6,077	8.6		Run Date		Run Job		Pull Date		Pull Job			
6,078	6,078	8.6											
6,140	6,140	7.3		Jts	Item Description	OD (in)		Len (ft)	Top (ftKB)				
6,141	6,141	7.3											
6,204	6,204	5.3											
6,208	6,208	5.2											
6,208	6,208	5.2											
6,223	6,223	5.4											
6,229	6,229	5.5											
6,237	6,237	5.6											
6,238	6,238	5.6											
6,238	6,238	5.6											
6,242	6,242	5.7											
6,243	6,243	5.7											
6,258	6,258	5.9											
6,314	6,314	6.2											
6,316	6,316	6.2											
6,470													
6,520													
6,795													
6,795													
6,900													