Hilcorp Energy Company

Current Schematic - Version 3

Well Name: HARDIE 004E

API / UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004524938	024-029N-008W-E	DK		NEW MEXICO	Vertical

Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,430.00	6,442.00	12.00		

Vertical, Original Hole, 5/23/2018 6:51:05 AM

MD (ftKB)	TVD (ftKB)	Vertical schematic (actual)
12.1		Tubing Hanger; 7 1/16 in; 12.0 ftKB; 13.0 ftKB
13.1		Cement; 12.0-225.0; 5/1/1981; Cement circ 1; SURFACE CASING; 9.63 in; 8.92 in; 12.0 ftKB; 225.0 ftKB
225.1		Cement; 12.0-3,233.0; 5/4/1981; Trace circ to surf
2,839.9		Pi Tubing YELLOW; 2 3/8 in; 4.70 lb/ft; J-55; 13.0 ftKB; 5,121.7 ftKB
3,232.9		2; INTERMEDIATE CASING; 7 in; 6.46 in; 12.0 ftKB; 3,233.0 ftKB
3,799.9		
3,803.1		Mesaverde (final)
4,692.9		Cliff House (final)
4,890.1		Menefee (final)
4,922.9		
5,121.7		Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 5,121.7 ftKB; 5,123.8 ftKB
5,123.7		Tubing YELLOW; 2 3/8 in; 4.70 lb/ft; J-55; 5,123.8 ftKB; 5,155.1 ftKB
5,155.2		F-NIPPLE; 2 3/8 in; 5,155.1 ftKB; 5,156.2 ftKB
5,156.2		Notched collar; 2 3/8 in; 5,156.2 ftKB; 5,156.7 ftKB
5,156.8		
5,226.0		
5,282.2		Point Lookout (final)
5,490.2		Mancos (final)
5,595.1		Bridge Plug - Temporary; 5,595.0-5,597.0; SELECT CAST IRON BRIDGE PLUG.
5,597.1		
6,373.0		~~Gallup (final)~~
6,896.0		
7,250.0		Greenhorn (final)
7,300.9		Bridge Plug - Temporary; 7,301.0-7,303.0; SELECT CAST IRON BRIDGE PLUG.
7,303.1		
7,308.1		Graneros (final)
7,350.1		Dakota (final)
7,351.1		
7,371.1		
7,450.1		
7,488.8		
7,547.9		
7,579.1		
7,629.9		

PERF - MENEFEE; 4,923.0-5,226.0; 5/2/2018

Cement; 3,800.0-7,630.0; 5/9/1981; TOC estimated

Perforated; 7,351.0-7,371.0; 5/23/1981

Perforated; 7,450.0-7,489.0; 5/23/1981

Perforated; 7,548.0-7,579.0; 5/23/1981

CEMENT PLUG; 7,579.0-7,630.0; 5/22/1981

3; PRODUCTION CASING; 4 1/2 in; 4.00 in; 12.0 ftKB; 7,630.0 ftKB