Hilcorp Energy Company

Current Schematic - Version 1

Well Name: HARDIE 004E

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004524938	024-029N-008W-E	DK	1004	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, 3/26/2019 11:23:25 AM

MD (ftKB)	TVD (ftKB)	Vertical schematic (actual)
12.1		Tubing Hanger; 7 1/16 in; 50.00 lb/ft; 12.00 ftKB; 13.00 ftKB
13.1		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 13.00 ftKB; 43.28 ftKB
43.3		Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 43.28 ftKB; 53.39 ftKB
53.5		
225.1		1; SURFACE CASING; 9.63 in; 8.92 in; 12.00 ftKB; 225.00 ftKB
2,839.9		Pictured Cliffs (final)
3,232.9		2; INTERMEDIATE CASING; 7 in; 6.46 in; 12.00 ftKB; 3,233.00 ftKB
3,799.9		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 53.39 ftKB; 7,486.89 ftKB
3,803.1		Mesaverde (final)
4,692.9		Cliff House (final)
4,717.8		PERF - CLIFF HOUSE UPPER; 4,718.00-4,886.00; 1/22/2019
4,886.2		
4,890.1		Menefee (final)
4,922.9		PERF - MENEFEE; 4,923.00-5,226.00; 5/2/2018
5,226.0		
5,268.0		
5,282.2		Point Lookout (final)
5,482.0		PERF - POINT LOOKOUT; 5,268.00-5,482.00; 1/22/2019
5,490.2		Mancos (final)
6,373.0		Gallup (final)
6,896.0		
7,250.0		Greenhorn (final)
7,308.1		Graneros (final)
7,350.1		Dakota (final)
7,351.1		Perforated; 7,351.00-7,371.00; 5/23/1981
7,371.1		
7,450.1		Perforated; 7,450.00-7,489.00; 5/23/1981
7,486.9		Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 7,486.89 ftKB; 7,488.99 ftKB
7,488.8		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7,488.99 ftKB; 7,519.29 ftKB
7,519.4		Seating Nipple; 2 3/8 in; 7,519.29 ftKB; 7,520.39 ftKB
7,520.3		Mule Shoe/XCK; 2 3/8 in; 7,520.39 ftKB; 7,521.24 ftKB
7,521.3		
7,547.9		Perforated; 7,548.00-7,579.00; 5/23/1981
7,579.1		
7,629.9		3; PRODUCTION CASING; 4 1/2 in; 4.00 in; 12.00 ftKB; 7,630.00 ftKB