Hilcorp Energy Company

Current Schematic

Well Name: HOUCK COM #1E

API / UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004526179	001-029N-010W-M	CH		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)
5,984.00	5,996.00	12.00	5,984.00	5,986.50

Vertical, Original Hole, 7/17/2018 1:44:36 PM

MD (ftKB)	TVD (ftKB)	Vertical schematic (actual)
12.1		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 12.0 ftKB; 44.9 ftKB
44.9		Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 44.9 ftKB; 65.3 ftKB
65.3		
313.0		1; Surface; 9 5/8 in; 8.92 in; 12.0 ftKB; 314.1 ftKB
314.0		
315.0		
1,270.0		OJO ALAMO (final)
1,310.0		KIRTLAND (final)
2,149.9		FRUITLAND (final)
2,379.9		PICTURED CLIFFS (final)
2,460.0		LEWIS (final)
2,792.7		
2,804.1		
2,917.0		2; Intermediate; 7 in; 6.37 in; 12.0 ftKB; 2,960.0 ftKB
2,959.0		
2,960.0		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 65.3 ftKB; 6,756.5 ftKB
3,480.0		
3,518.0		Found csg failure (collar?) by pkr testing 3491'-3531 on 6/8/18, sqz on 6/11/18
3,519.0		
3,964.9		SQUEEZE PERFS; 3,965.0-3,966.0; 6/8/2018
3,965.9		
3,980.0		
4,024.9		CLIFF HOUSE (final)
4,102.0		PERF - CLIFF HOUSE UPPER; 4,102.0-4,168.0; 6/15/2018
4,168.0		
4,185.0		PERF - UPPER MENEFEE; 4,185.0-4,252.0; 6/15/2018
4,250.0		MENE
4,252.0		
4,423.9		PERF - LWR MENEFEE; 4,424.0-4,575.0; 6/15/2018
4,575.1		
4,609.9		POINT LOOKOUT (final)
4,644.0		PERF - POINT LOOKOUT; 4,644.0-4,739.0; 6/15/2018
4,738.8		
4,750.0		MANCOS (final)
5,870.1		GALLUP (final)
6,615.2		G
6,675.9		D
6,735.9		Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 6,756.5 ftKB; 6,758.6 ftKB
6,756.6		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 6,758.6 ftKB; 6,791.0 ftKB
6,758.5		Dakota; 6,736.0-6,829.0; 4/3/1985
6,791.0		Pump Seating Nipple; 2 3/8 in; 6,791.0 ftKB; 6,792.1 ftKB
6,792.0		Expendable Check w/ Mule Shoe; 2 3/8 in; 6,792.1 ftKB; 6,793.1 ftKB
6,793.0		
6,829.1		
6,900.9		PBTD; 6,901.0; Tagged remains of CIBP.
6,901.9		Bridge Plug - Temporary; 6,901.0-6,902.0
6,915.0		Fish; 6,902.0-6,922.0; 2-3/8" x 20' pc tail jt
6,921.3		
6,921.9		
6,922.2		
6,923.2		
6,956.0		
6,957.0		3; Liner; 4 1/2 in; 4.05 in; 2,792.8 ftKB; 6,957.0 ftKB
6,960.0		

Surface Casing Cement; 12.0-314.1; 3/15/1985; Cemented w/ 225 sx Class B neat cement. Ciculated 10 bbls cement to surface.

Intermediate Casing Cement; 12.0-2,960.0; 3/17/1985; Cemented w/ 500 sx Howco Lite cement followed by 100 sx Class B neat cement. Circulated 25 bbls cement to surface.

Cement Squeeze; 3,518.0-3,519.0; 6/11/2018; Pumped squeeze cement w/ 20 sx Type G cmt (15.8 ppg, 1.14 cu ft/sx, 22.8 cu ft) At csg failure 3491'-3531' found on 6/7/18

Cement Squeeze; 3,480.0-3,965.0; 6/9/2018; Pumped squeeze cement w/94 SX Type G cmt (14.6 ppg, 1.37 cu ft/sx, 126 cu ft.) 22.9 bbls. TOC @ 3,480' by CBL

Stims and Treats; 7/5/2018; BROKE DOWN WELL WITH WATER AND 1000 GAL 15% HCL. FOAM FRAC'D MESAVERDE WITH 299,740 LBS 40/70 AND 85,040 GAL SLICKWATER AND 2.78 MILLION SCF N2. 70 QUALITY. AVG RATE = 54 BPM, AVG PSI = 4125. ISIP WAS 1881 PSI (FOAM FLUSH). DROPPED 15 BIO-BALLS WITH 1/3 OF SAND PUMPED AND 7 BIO-BALLS WITH 2/3 OF SAND PUMPED (22 TOTAL).

Liner Cement; 3,980.0-6,957.0; 3/22/1985; Cemented w/ 400 sx Howco Lite cement followed by 100 sx Class B neat cement. TOC @ 3,980' by CBL (6/8/18)

Hydraulic Fracture; 4/3/1985; Frac'd w/ 95,000 gals 30# x-link gel; 138,000# 20/40 sand.

Plugback; 6,915.0-6,957.0; 3/22/1985

Plugback; 6,957.1-6,960.0; 3/22/1985