Hilcorp Energy Company

Current Schematic

Well Name: HUERFANO UNIT #205

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004520649	028-026N-009W-J	BASIN DAKOTA (PRORATED GAS)	0610	NEW MEXICO	

Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,470.00	6,481.00	11.00		

Original Hole, 11/26/2018 3:33:09 PM

MD (ftKB)	TVD (ftKB)	Vertical schematic (actual)
13.1		Tubing Hanger; 7 1/16 in; 13.0 ftKB; 13.7 ftKB
13.8		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 13.7 ftKB; 45.3 ftKB
45.3		Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 45.3 ftKB; 53.3 ftKB
53.5		Surface Casing Cement; 13.0-228.0; 6/5/1970; CEMENT WITH 160 SX CIRCULATED TO SURFACE
227.0		1; Surface; 8 5/8 in; 8.10 in; 13.0 ftKB; 228.0 ftKB
228.0		
1,113.8		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 53.3 ftKB; 1,965.7 ftKB
1,279.9		KIRTLAND (final)
1,462.9		Cement; 1,463.0-2,217.0; 6/20/1970; CEMENT WITH 194 SX TOC CALC AT 75% EFF
1,752.0		FRUITLAND (final)
1,937.0		Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 1,965.7 ftKB; 1,967.8 ftKB
1,965.9		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 1,967.8 ftKB; 1,999.5 ftKB
1,967.8		
1,988.8		Pump Seating Nipple; 2 3/8 in; 4.70 lb/ft; J-55; 1,999.5 ftKB; 2,000.6 ftKB
1,999.3		PERF - PICTURED CLIFFS; 1,989.0-2,012.0; 9/20/2018
2,000.7		Tbg coupling; 2 3/8 in; 4.70 lb/ft; J-55; 2,000.6 ftKB; 2,001.0 ftKB
2,001.0		
2,012.1		Hydraulic Frac; 10/31/2018; PICTURED CLIFFS STIM: (1,989' - 2,012'). SITP - 240 PSI. TBG/PKR ANN - 50 PSI. FRAC ZONE WITH 500 GALS OF 15% HCL ACID & 21,960 FOAM GALS OF 65 QUALITY SLICK WATER AT 25 BPM. PROPPANT: 30,500 LBS. OF 20/40 ARIZONA SAND, W/SANDWEDGE MAX ADDITIVE. TRACED SAND STAGES W/IRIDIUM-192. TOTAL N2: 141,296 SCF. FLUSH: 20 FLUID BBLS. MIN RATE: 25 BPM. MAX RATE: 26 BPM. AVG RATE: 25 BPM. MIN PSI: 1,450 PSI. MAX PSI: 1,700 PSI. AVG PSI: 1,550 PSI. MAX SAND CONC: 3.0 PSA DOWNHOLE. ISDP: 676 PSI. FRAC GRADIENT: .77 PSI/FT. (BASED OFF ISDP) FLUID TO RECOVER: 251 CLEAN BBLS. PUMPED 282 SLURRY BBLS. TBG/PKR ANN - 315 PSI AT END OF JOB. BLEED DOWN TO 0 PSI.
2,137.1		Bridge Plug - Permanent; 2,137.0-2,139.0; AMERICAN COMPLETION 4 1/2" CIBP
2,139.1		
2,214.9		
2,216.9		
3,603.0		MESA VERDE (final)
3,903.9		Cement; 3,904.0-4,740.0; 6/20/1970; CEMENT WITH 215 SX TOC CALC AT 75% EFF
4,390.1		POINT LOOKOUT (final)
4,737.9		
4,740.2		
5,551.8		GALLUP (final)
5,714.9		Production Casing Cement; 5,715.0-6,764.0; 6/20/1970; CEMENT WITH 270 SX TOC CALC AT 75% EFF
6,381.9		Bridge Plug - Permanent; 6,382.0-6,384.0; AMERICAN COMPLETION 4 1/2" CIBP
6,383.9		
6,432.1		
6,524.0		PERF DAKOTA; 6,432.0-6,666.0; 6/21/1970
6,591.9		PBTD; 6,592.0
6,597.1		Bridge Plug - Permanent; 6,592.0-6,597.0
6,666.0		Hydraulic Fracture; 6/21/1970; FRAC DAKOTA WITH 71000 GAL WATER AND 70000# SAND
6,749.0		Production Casing Cement (plug); 6,749.0-6,764.0; 6/20/1970; CEMENT WITH 270 SX TOC CALC AT 75% EFF
6,763.1		
6,764.1		2; Production1; 4 1/2 in; 4.05 in; 13.0 ftKB; 6,764.0 ftKB