Hilcorp Energy Company

Current Schematic - Version 3

Well Name: SAN JUAN 29-5 UNIT #61A

API / UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3003929759	009-029N-005W-O	MV		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)
6,773.00	6,789.00	16.00		

Vertical, Original Hole, 8/14/2018 6:56:40 AM

MD (ftKB)	TVD (ftKB)	Vertical schematic (actual)
16.1		Tubing Hanger; 7 1/16 in; 50.00 lb/ft; 16.0 ftKB; 17.0 ftKB
17.1		
20.7		
24.0		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 17.0 ftKB; 47.8 ftKB
47.9		Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 47.8 ftKB; 58.0 ftKB
58.1		
194.2		
195.5		
238.2		
239.2		
252.0		
2,953.1		C Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 58.0 ftKB; 5,963.9 ftKB
3,082.0		K
3,232.0		
3,500.0		FRUITLAND (final)
3,737.9		PICTURED CLIFFS (final)
3,748.0		
3,782.2		
3,903.9		LEWIS (final)
3,995.7		
3,996.7		
4,039.7		
4,041.0		
4,044.9		
4,461.9		HUERFANITO BENTONITE (final)
4,738.8		CHACRA (final)
4,746.1		
5,149.9		
5,217.8		
5,326.1		UPPER CLIFFHOUSE (final)
5,332.0		
5,606.0		MASSIVE CLIFFHOUSE (final)
5,633.9		MENEFEE (final)
5,775.9		
5,855.0		
5,910.1		P Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 5,963.9 ftKB; 5,965.9 ftKB
5,963.9		Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 5,965.9 ftKB; 5,998.9 ftKB
5,965.9		
5,999.0		Seat Nipple; 2 3/8 in; 5,998.9 ftKB; 6,000.0 ftKB
6,000.0		Mule Shoe/Exp Ck; 2 3/8 in; 6,000.0 ftKB; 6,000.8 ftKB
6,000.7		
6,222.1		
6,244.1		
6,245.1		
6,246.1		
6,274.9		
6,773.0		

Surface Casing Cement; 16.0-239.2; 8/20/2006; PJSM. RIG UP SCHLUMBERGER & PUMP 5 BBLS FRESH WATER AHEAD. PRESSURE TEST TO 2500 PSIG. PUMP 15 BBLS FRESH WATER/DYE THE LAST 5 BBLS. CEMENT W/240 SKS CLASS G CEMENT W/3% CaCL2, .25 LB/SX D29 CELLOPHANE FLAKE @ 15.8 PPG. PUMP 50 BBL SLURRY @ 3.0 BPM, S/D. DROP PLUG & DISPLACE W/16.0 BBLS FRESH WATER. FCP 70 PSI. BUMP PLUG W/850 PSIG, PLUG DOWN @ 1400 HRS. CHECKED FLOATS. BLED BACK .5 BBLS. 20 BBLS CEMENT TO SURFACE. JSA W/SCHLUMBERGER . RIG DOWN CEMENT HEAD & SCHLUMBERGER.

1; Surface; 9 5/8 in; 9.00 in; 16.0 ftKB; RUN 5 JOINTS OF 9 5/8", H-40, 32.3 PPF CASING. FLOAT SHOE @ 239', FLOAT COLLAR @ 194', CENTRALIZERS @ 229', 151', 109', 66'. SET TOP WELLHEAD FLANGE 2" BELOW GROUND LEVEL.; 239.2 ftKB

Intermediate Casing Cement; 16.0-4,041.0; 8/23/2006; PJSM.R/U CMT 7"LINES TESTED TO 3500 OK,PUMPED 25 BBL GEL WATER,430 SKS CLASS GW/3%DO790.2% DO46 3.0 LB/BBL CEMENT@11.7 PPG.PUMP SLURRY @ 4.0, BPM FOLLOWEDN BY 55 BBL 230 SKS 50/50 POZ,CLASS G,SLURRY 2% D20,L2 S-OO1,5 LB/SK F24,0.15 % D65,3 LB /BBLCEMENT @ 13.5 ,S/D DROP PLUG& DIAPLACE W/ 161 BBL WATER @4 BL/MINCAUGHT CMT AFTER 20 BBL FINAL CIRC PSI 1600 @ 2 BL/MIN, BUMPED PLUG W/ 1900 PSI PLUG DOWN @ 2342 HRS CHECKED FLOATS & BLED BACK 1/2 BBL 50 BBL CEMENT TO SURFACE R/D CEMENTERS

PERF - PICTURED CLIFFS; 3,748.0-3,782.0; 7/19/2018

2; Intermediate; 7 in; 6.46 in; 16.0 ftKB; RAN 93 JTS 7" 20 # STC CSG SHOE @ 3926' FLOAT COLLAR @ 3881'CENT, @ 3882'-3838'-3752'-3666'-3581'-3493'-233'-104'-67' TUBROLIZERS @ 2977'-2934'-2891'-2848'-2805'-2762'- USED EMERGENCY SLIPS & CUT OFF; 4,041.0 ftKB

Production Casing Cement; 3,232.0-6,246.0; 8/26/2006; PJSMW/ SCHLUMBERGER R/U CEMENT HEAD LINES.TEST LINES TO 4000# PUMPED10 BBL VIS GEL, 10 BBL WATER W/ L64 CLAY STABLIZER 10 BBL VIS GEL .MIX & PUMP 265 SX 50.50 POZ/CLASS G CEMENT + 0.25LB/SX DO29+3.0% D020,+ 1.0LB/SX DO24,+0.25% D167,+ O.15% DO65,+ 0.10% D800,+ 0.10% DO46,& + 3.5 LB/SX PHENOSEAL. PUMP 68 BBL @ 13 PPG. WASHLINES. DROP OMEGA PLUG & DISPLACE @ 7BPM TIL CAUGHT PLUG @ 97 BBL. SLOW TO 2.5 BPM & BUMP PLUG @ 0947 HRS 1351 PSI W/ 99.1 BBL. FCP 550.BLED BACK .50 BBL FLOATS OK R/D SCHLUMBERGER

PERF - LEWIS; 4,746.0-5,218.0; 9/12/2006

PERF - CLIFF HOUSE / MENEFEE UPPER; 5,332.0-5,776.0; 9/12/2006

PERF - POINT LOOKOUT / MENEFEE LOWER; 5,855.0 -6,222.0; 9/9/2006

Cement Plug; 6,244.0-6,246.0; 8/26/2006

3; Production; 4 1/2 in; 4.05 in; 16.0 ftKB; RAN 147 JTS J-55 10.50 STC 4"1/2 CSG 6265.43 SET @ 6246' TOP O/ 9.85 PUP JT @ 350' NO CENT; 6,246.0 ftKB

Cement; 6,246.0-6,275.0; 8/26/2006