

22-in. EZCase drills 854 m in carbonates and sticky shales with 43% faster ROP

CHALLENGES

- Reduce drill-case time (average 15.5 days for the field)
- Eliminate hole instability
- Improve ROP for the section
- Eliminate hole conditioning trips due to time-dependent shale
- Eliminate NPT due to bit and BHA balling

SOLUTION

- 22-in., 6 bladed [EZCase™](#) deployed on 18 5/8-in casing
- Improved hole stability through “smearing effect” of casing
- Optimized cutting structure and hydraulics for greater performance and verticality

RESULTS

- 854 meters drilled at 8.37 m/hr
- Drill-case timing reduced by 40%
- Zero-hole instability
- 43.8% faster ROP for the section
- No extra trips due to time-dependent shale
- No NPT due to bit and BHA balling
- 18% reduction on total cost of surface hole

HCC New Benchmark

Well	Size (in.)	Bit Type	Manufacturer	Depth In	Depth Out	Length	HRS	Avg. ROP	IN	OUT	DULL	LOC.	B	G	Other	RP
Well - A	22	EZC606	HCC	40	894	854	102	8.37	-	-	-	-	-	-	-	-

Offset Performance

Well - 1	26	GTX-C2G1	HCC	2.71	890.71	888	115.75	7.67	4	3	BU	A	E	0	CT	TD
Well - 2	26	GTX-CG1	HCC	0	748.72	748.72	135.25	5.54	2	2	WT	A	0	0	BU	PR
Well - 2	26	CRI	Reed Hycalog	748.72	779.72	31	36.25	0.86	1	1	WT	A	E	0	NO	TD
Well - 3	26	L115J	Varell	0	698	698	111.08	6.28	1	1	SS	A	E	1	NO	TD
Well - 4	26	T11C	Reed Hycalog	13	588	575	123.25	4.67	1	1	WT	S	E	1	BU	BHA
Well - 4	26	GT-C91	HCC	588	919	331	57.5	5.76	1	1	WT	A	E	1	BU	TD
Well - 5	23	GTX-CG1	HCC	0	1,040.00	1040	154	6.75	2	2	BT	A	E		BU	TD
Well - 6	23	GTX-CG1	HCC	0	966	966	159.5	6.06	2	3	WT	A	E	1	NO	TD
Well - 7	23	GTX-CG1	HCC	0	985	985	131.75	7.48	4	3	WT	A	2	1	WT	TD
Well - 8	23	ETRIGJ	Varell	208	703	495	96	5.16	2	3	WT	A	E	1	LN	HP
Well - 8	23	GTX-CG1	HCC	703	759	56	51	1.10	2	2	WT	A	E	1	BU	PR
Cumulative Length & ROP						6814	1171	5.82								

