

Zupt C-PINS Track Record

Date	Location	Survey Type	Operator	Project	Jumper Type	Jumper ID	End 1	End 2	Length(ft)
May-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	PJ1023	ORQ-554	Manifold M-102 P1023	62
May-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horiz / Vert	IJ3501	CRA-357	FLET FT351-2	84
May-15	Angola	HPR Measurement	Total E&P Angola	Block 17	Horizontal	-	DAL-773	-	-
May-15	Ghana	Inertial Metrology	Tullow Ghana	Jubilee	Vertical	Not Provided	J24 XT	P4 Manifold Slot A	76
Apr-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	IJ3504	LIR-457 XT	DT353-2 FLET	98
Apr-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	4-LV-304-2-1L	4LW-304-2-1L FLET	ME304-2 Manifold	101
Apr-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	4-LW-304-2-2R	4LW-304-2-2R	ME304-2 Hub HRU Manifold	124
Apr-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	Dalia 2LV-303-26	ME303-2	DAL-775 (FB)	116
Apr-15	USA GoM	Inertial Metrology	Petrobras	Walker Ridge	Vertical		CH01-Q-AY-02 Tree #6	CH01-G-AY-01 Manifold Hub #2	109
Mar-15	USA GoM	Inertial Metrology	BHP Billiton		Vertical	S-18479	Well SH-103	Hub WB1/Manifold H	63
Mar-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	IJ2507	LIR458 XT	FT243-3	84
Mar-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-302-23	DAL 774 XT	ME 302-2 Manifold	111
Mar-15	Angola	HPR Measurement	Total E&P Angola	Block 17	Horizontal	-	ROS-256	-	-
Feb-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	IJ2501	CRA 358 XT	FT252-2 FLET	82
Feb-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	I10WJ21	ZNA 512 XT	I10DT20 ILT	100
Feb-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-302-26	DAL 776 XT	ME302-2 Manifold	76
Jan-15	Ghana	Inertial Metrology	Tullow Ghana	Jubilee	Vertical	Not Provided	J46 XT	W13 Manifold Hub D	73
Jan-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	PJ1011	OVM-655	M101	67
Jan-15	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-301-16	DAL-773	ME-301-1	
Nov-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-303-11	DAL-772	ME-303-1	68
Nov-14	USA GoM	Inertial Metrology	BHP Billiton	Neptune	Vertical	S-19226	In-Line Sled Hub WH2	SB02/SB03 Manifold W/P6	52
Nov-14	USA GoM	Inertial Metrology	BHP Billiton	Neptune	Vertical	S-19227	XT SB02	SB02/SB03 Manifold W/P5	82
Nov-14	USA GoM	Inertial Metrology	BHP Billiton	Neptune	Vertical	S-19228	XT SB03	SB02/SB03 Manifold T/P3	111
Nov-14	USA GoM	Inertial Metrology	Marubeni	Manatee	Vertical	Check Metrology	Manatee Well #2	Manatee M2 FLET	71
Oct-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	I40WJ40	ACA-815	I40FS40 ILT	93
Sep-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	70PWJ32	ROS-256	M703	48
Sep-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	P10WJ12	ZNA-511	P10DT10	88
Sep-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	IJ2505	CRA-356B XT	DT254-2 ILT	78
Sep-14	USA GoM	Inertial Metrology	Marubeni	Manatee	Vertical		Manatee Well #2	Manatee M2 FLET	71
Aug-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	IJ1501	ORQ-551	DT151-2	84
Aug-14	USA GoM	Inertial Metrology	BHP		Vertical		GC653 Manifold B1 WB4	Well B-104	105
Aug-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	4-LV-761-40	DAL771	4-LU761-40	69
Aug-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-304-13	DAL768	ME304-1	100
Aug-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	IJ0507	OVM653	FT051-5	86
Jul-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	PJ1014	ORQ553	M101 P1014 Manifold	67
Jul-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-302-24	DAL 766B	ME302-2	93
May-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical		ZNA510	ILT P10DT20	99
May-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal		DAL770	Manifold ME304-2	69
May-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical		ZNA509	I10DT40	110
Apr-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	IJ2503	CRA 354	FT253-2	82
Apr-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	WJP2043	LIR 452B	M204-P2043	109
Apr-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	WJP2042	LIR 455	M204	62
Apr-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-764-25	DAL767	ILT 4-LU-762-25	75

Zupt C-PINS Track Record

Apr-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	4-LV-764-30	DAL769	ILT-4-LU-764-30	71
Apr-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	S60PWJ22	JSM208	JSM204	90
Apr-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	S60PWJ26	JSM209	M602	98
Mar-14	USA GoM	Inertial Metrology	BHP		Vertical		GC653 Well SB-103	Manifold B1	63
Mar-14	USA GoM	Inertial Metrology	LLOG		Vertical		MC574 SS004	Manifold E2	59
Mar-14	Congo	Inertial Metrology	Total E&P Congo	Moho Bilondo	Horizontal		Well MOB1-10	Manifold MOB-M11	-
Mar-14	USA GoM	Inertial Metrology	BHP		Vertical		GC653 SB-103 Well	Manifold B1	69
Feb-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	P40WJ422	ACA-816	Manifold M42	81
Feb-14	Angola	Umbilical Touchdown	Total E&P Angola	Block 17	Vertical	-	ZNA-510	SUP1011	-
Feb-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	PWJ2024	CRA 352	Manifold M202 P2024	60
Feb-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	PWJ2022	CRA 353B	Manifold M202 P2022	110
Feb-14	Angola	CLOV FIT TEST	Total E&P Angola	Block 17	-	-	FT151-3	-	-
Feb-14	Angola	CLOV FIT TEST	Total E&P Angola	Block 17	-	-	DT151-2	-	-
Feb-14	Angola	CLOV FIT TEST	Total E&P Angola	Block 17	-	-	M203 17-13	-	-
Feb-14	Angola	CLOV FIT TEST	Total E&P Angola	Block 17	-	-	M203 18-12	-	-
Feb-14	Angola	CLOV FIT TEST	Total E&P Angola	Block 17	-	-	OVM 651	-	-
Jan-14	Congo	Inertial Metrology	Total E&P Congo	Moho Bilondo	Horizontal		Well MOB1-10	Manifold MOB-M11	134
Jan-14	Angola	HPR Measurement	Total E&P Angola	Block 17	Horizontal	-	GIR134 FB6016	-	-
Jan-14	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-302-13	DAL-762B	Manifold ME302-1 Hub W3	81
Dec-13	Congo	Inertial Metrology	Total E&P Congo	Moho Bilondo	Horizontal		Well BIL2-06	Manifold BILM-21	52
Dec-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	P40WJ32	ZNA-508	ILT P10DT30	86
Nov-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	4-LV-761-30	DAL-764	ITA 4-LU-761-30	83
Oct-13	USA GoM	Inertial Metrology	LLOG		Vertical		Manifold E2 (H4)	Well #3 (E6)	62
Oct-13	USA GoM	Inertial Metrology	BHP		Vertical		Well H-102	Manifold H WB2	64
Oct-13	Congo	Inertial Metrology	Total E&P Congo	Moho Bilondo	Horizontal		Well BIL2-06	Manifold BILM-21	52
Oct-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-303-21	DAL765	Manifold ME303-2	83
Oct-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-303-24	DAL757B	Manifold ME303-2	99
Sep-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	S55IWJ51	GIR137	XT JSM 205	80
Sep-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	P40WJ412	ACA-814	Manifold M41	78
Sep-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	C15IWJ12	GIR136	SLED ST155	81
Sep-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	WJ Future Jumper	GIR135	Manifold M601	78
Sep-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	S55IWJ55	GIR137	SLED ST555	82
Jun-13	USA GoM	Inertial Metrology	LLOG	Who Dat	Vertical		Manifold E1	Well H2	68
Jun-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	C15IWJ12	GIR136	SLED ST155	74
Jun-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	S60PWJ12	GIR134	XT JSM201	96
Jun-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	I10WJ50	ZNA-507	ILT I10FS50	91
Jun-13	Angola	Buoyancy Modules	Total E&P Angola	Block 17			Buoyancy Modules Survey		
Jun-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	I20WJ41	PRP-620A	FLET I20FD40	59
May-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	P10WJ22	ZNA-505B	ILT P10DT20	119
Apr-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	C15IWJ12	GIR136	SLED ST155	74
Apr-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	S60PWJ12	GIR134	XT JSM201	96
Apr-13	Angola	Depth Survey	Total E&P Angola	Block 17			Depth Survey		
Apr-13	Angola	Depth Survey	Total E&P Angola	Block 17			Depth Survey		
Apr-13	Angola	Depth Survey	Total E&P Angola	Block 17			Depth Survey		

Zupt C-PINS Track Record

Apr-13	Angola	Depth Survey	Total E&P Angola	Block 17				Depth Survey	
Apr-13	Angola	Depth Survey	Total E&P Angola	Block 17				Depth Survey	
Apr-13	Angola	Depth Survey	Total E&P Angola	Block 17				Depth Survey	
Apr-13	Angola	Depth Survey	Total E&P Angola	Block 17				Depth Survey	
Apr-13	Angola	Depth Survey	Total E&P Angola	Block 17				Depth Survey	
Apr-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	P30WJ31	PRP-623	ILT P30DT30	80
Mar-13	USA GoM	Inertial Metrology	BHP	Shenzi	Vertical		Well C1-3	Manifold C1	61
Mar-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	I20WJ41	PRP-620	FLET I20FD40	98
Feb-13	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	I30WJ20	PRP-622	ILT I30ST20	88
Jan-13	USA GoM	Inertial Metrology	LLOG	Who Dat	Vertical		MC-547 No. 3 Hub	E1 Manifold H4 Hub	59
Nov-12	Angola	Pipeline Survey	Total E&P Angola	Block 17				I75 Pipeline Run	
Nov-12	Angola	Pipeline Survey	Total E&P Angola	Block 17				I65 Pipeline Run	
Oct-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	I20WJ13	PRP-617	ILT I20TT10	83
Oct-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	2-LV-301-22	DAL-761	Manifold ME301-2	86
Oct-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	P20WJ12	PRP-612	ILT P20DT10	82
Sep-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	4-LV-762-30	DAL-759	ITA 4-LU-762-30	69
Aug-12	USA GoM	Inertial/Sparse LBL	BP	Mad Dog	Sparse LBL		Mad Dog	Mad Dog	N/A
Aug-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Horizontal	70PWJ31	ROS-254	Manifold M703	47
Jul-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	P20WJ30	PRP-619A	ILT P20DT30	126
May-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	P20WJ22	PRP-616	ILT P20DT22	86
May-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	I20WJ20	PRP-618	ILT I20ST20	91
Apr-12	USA GoM	Inertial Metrology	BHP	Shenzi H1-01	Vertical		Well H1-01	Manifold H	64
Apr-12	Angola	Inertial Metrology	Total	Total E&P Angola	Vertical	P20WJ411	ACA-813	Manifold M41	78
Apr-12	Angola	Inertial Metrology	Total E&P Angola	Block 17	Vertical	I20WJ42	PRP-615	FLET I20FD40	100
Sep-11	USA GoM	Inertial Metrology	Shell	Perdido	Vertical		Multiple	Multiple	75
Aug-11	USA GoM	Inertial Metrology	BHP	Shenzi DC-B	Vertical		Well B1-1	Manifold B1	56
May-11	Caribbean	Inertial Metrology	Statoil	Jan De Nul	32" Hor Spool		S3	S7	70
May-11	Caribbean	Inertial Metrology	Statoil	Jan De Nul	Vertical		Well B2-2	Manifold BW2	89
May-11	USA GoM	Inertial Metrology	BHP	Shenzi DC-B	Vertical		Well B2-1	Manifold B2	88
Sep-10	UK North Sea	Inertial Metrology		Acergy	Horizontal		P20 6"	P19 Skid 6"	80
Sep-10	UK North Sea	Inertial Metrology		Acergy	Horizontal		P20 2"	P19 Skid 2"	80
Apr-10	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 2114	Manifold M21	45
Apr-10	Congo	Inertial Metrology	Total	Total E&P Congo	Horizontal		PGB 2114	Manifold M21	45
Mar-10	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 114RS	Manifold M11	64
Mar-10	Congo	Inertial Metrology	Total	Total E&P Congo	Horizontal		PGB 114RS	Manifold M11	64
Jan-10	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 114RS	Manifold M11	64
Jan-10	Congo	Inertial Metrology	Total	Total E&P Congo	Horizontal		PGB 114RS	Manifold M11	64
Nov-09	USA GoM	Acoustic & Inertial	BHP	Neptune	Vertical		Well SB-02	In-line Sled B	70
Oct-09	Congo	Inertial Metrology	Total	Total E&P Congo	Horizontal		PGB 115RS	Manifold M11	69
Sep-09	USA GoM	Acoustic & Inertial	BHP	Shenzi	Vertical		Well G1-4	Manifold G1	62
Sep-09	Congo	Inertial Rig Test	Total	Total E&P Congo	Horizontal		PGB 115RS	Manifold M11	69
Jul-09	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 115RS	Manifold M10	69
Jul-09	Congo	Inertial Metrology	Total	Total E&P Congo	Horizontal		PGB 115RS	Manifold M10	69

Zupt C-PINS Track Record

Jun-09	USA GoM	Acoustic & Inertial	BHP	Shenzi DC-B	Vertical		Well B2-3	Manifold B2	65
May-09	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 212R	Manifold M21	46
May-09	Congo	Inertial Metrology	Total	Total E&P Congo	Horizontal		PGB 212R	Manifold M21	46
May-09	USA GoM	Acoustic & Inertial	BHP	Shenzi DC-C	Vertical		Well C1-2	Manifold C1	96
Feb-09	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 212	Manifold M21	46
Feb-09	Congo	Inertial Metrology	Total	Total E&P Congo	Horizontal		PGB 212	Manifold M21	46
Jan-09	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 116RS	Manifold M11	46
Oct-08	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 113C	Manifold M11	75
Jun-08	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 116	Manifold M11	46
Jun-08	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 113	Manifold M11	75
May-08	Congo	Acoustic	Total	Total E&P Congo	Horizontal		PGB 112	Manifold M11	78

