DATE: 7-6-15 JOB NO: 1431S108

ORIGINAL FIELD NOTES

CLIENT: McKenzie County

JOB DESCRIPTION: Lidar QC

Legal Description:

Party Chief:

Crew: S. Winkler S. Emerson

Date Commenced: 7-6-15 Date Completed:

Weather conditions: Sunny (Hazy) 70°±, 0-10 mph

Temperature:

Equipment Used: Trimble R8-3 Base & 2 Rovers 2 - TSC3

Horizontal Closure:

Vertical Closure:

Vertical Datum: NAVD 88

Comments:

RTK GPS	
Job #: 14315108	Date: 7-6-15 Page 1
TSC job name:	ver:
Coordinate system:	
Ref. El.= 2000	
Geoid model: 03	
BASE STATION	
Pt #: 334	Code:
Location	
H.I.= 1.574 m/ 5.16 ift ( )	
Φ= ° ' "	
λ= ° ' "	
h= ift	
Known coords. ☒ Unknown cords.("here", aut. Fix) ☐	
Start time:~	
ROVER	
H.I.= m/	ft (6.865)
Pt#'s	Series
2000 - 2007	
2000A - 2007A	

T @ 334	AI		157.4 5.16		CB
2000	SPOT	+	Med		
2000A	SPOT	+	med		
2001	SPOT	+	Low		
2001A	SPOT	+	Low		
2002	SPOT	+	Bare		
2002A	SPOT	+	Bare		
2003	SPOT	+	High		
2003A	SPOT	+	High		
2004	SPOT	+	Low		
2004A	SPOT	+	Low		

7-6-15 Winkler

①

2005	SPOT * High				
2005A	"	"			
*2005B	"	"			
*2005C	"	"			
2006	SPOT * Med				
2006A	SPOT * Med				
2007	SPOT * Bare				
2007A	Spot * Bare				

7-6-15

DATE: 7-7-15 JOB NO: 14315108

ORIGINAL FIELD NOTES

CLIENT: Mckenzie County

JOB DESCRIPTION: Lidar QC

Legal Description:

Party Chief:

Crew: S. Winkler S. Emerson

Date Commenced: 7-7-15 Date Completed:

Weather conditions: 75°+, Sunny (Haze) 5-10 mph

Temperature:

Equipment Used: Trimble R8-3 Base & 2

Rovers 2- TSC3

Horizontal Closure:

Vertical Closure:

Vertical Datum: NAVD 88

Comments:

RTK GPS

Job #: 14315108 Date: 7-7-15 Page /

TSC job name: ver:

Coordinate system:

Ref. El.= 2000

Geoid model: 03

BASE STATION

Pt #: 221 Code:

Location

H.I.= 1.475 m/ 4.84 ift ( )

Φ= ° ' "

λ= ° ' "

h= ift

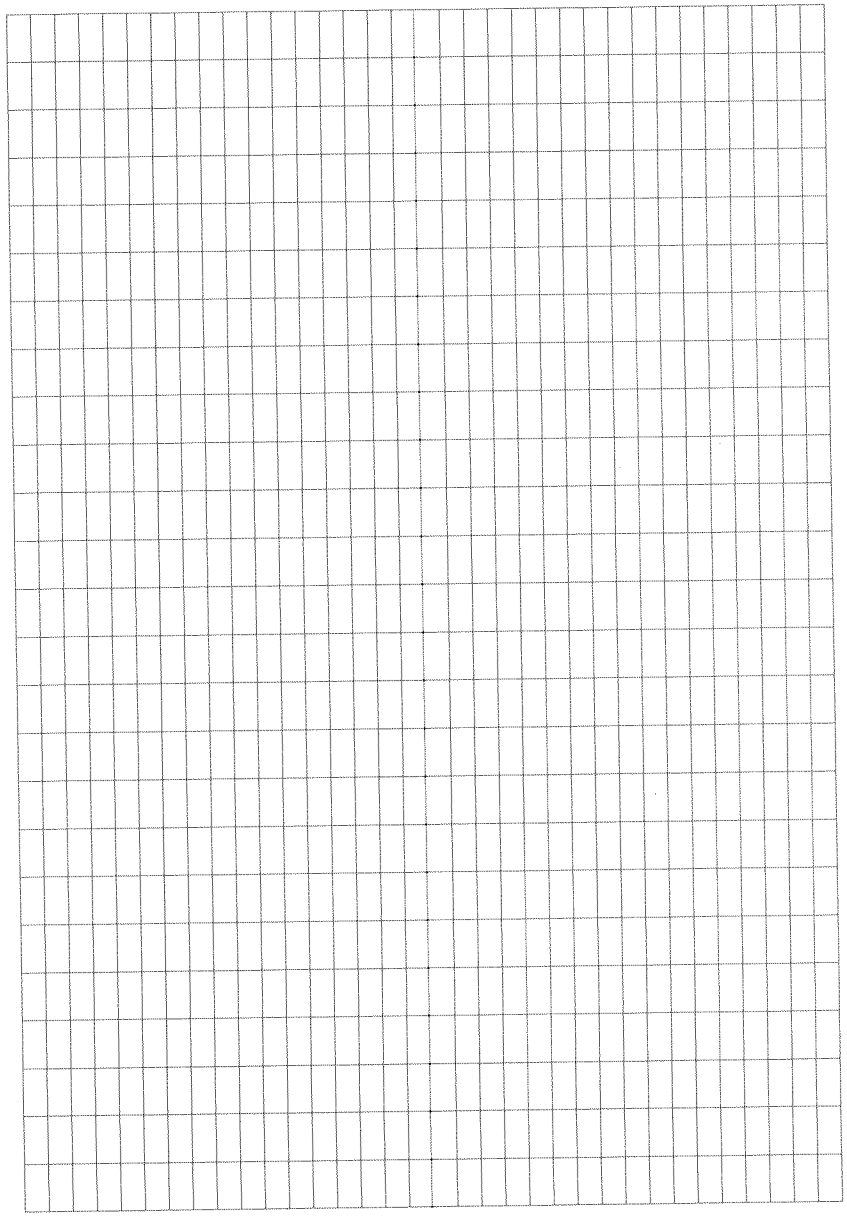
Known coords. ☒ Unknown cords.("here", aut. Fix) ☐

Start time:~

ROVER

H.I.= m/ ft (6.865)

Pt#'s	Series
2008 - 2019	
2008A - 2019A	



~~R8-3~~					
T@	221	HI	147.5 4.84		CB
		HR	6.865		
2008	SPOT	* Base			
2008A	SPOT	* Base			
2009	CP				
2010	CP				
T@ 2009		HI	5.31		
BS 2010		HR	4.72		
	H: -0.016		V:	0.022	
2011	SPOT	* High			
2012	SPOT	* Mid			
2012A	SPOT	* Mid			
2013	SPOT	* Low			
2013A	SPOT	* Low			

7-7-15 Winkler

(2)

2014	SPOT	* Low			
2014 A	SPOT	* Low			
2015	CP				
2016	CP				
T@	2015		HI	5.20	
BS	2016		HR	4 72	
	H:- 0.014		V:- 0.001		
2017	SPOT	* High			
2018	SPOT	* Mod			
2018A	SPOT	* Mod			
2019	SPOT	* Bare			
2019A	SPOT	* Bare			

7-7-15

(2)

(3)

~~RS-3~~					
T@ 225		HI	158.9 5.21		CB
2020	SPOT	*	Bare		
2020A	SPOT	*	Bare		
2021	CP				
2022	CP				
T@ 2021			HI	5 05	
BS 2022			HR	4 72	
	H: -0.018			V: 0.039	
2023	SPOT	*	High		
2024	SPOT	*	Low		
2024A	SPOT	*	Low		
2025	SPOT	*	Low		
2025A	SPOT	*	Low		

7-7-15

(3)

(4)

2026	CP				
2027	CP				
T @	2026		HI 4.85		
BS	2027		HR 4.72		
	H = -0.002		V = -0.005		
2028	SPOT *		High		
2029	SPOT *		mod		
2029A	SPOT *		mod		

7-7-15

(4)

DATE: 7-8-15 JOB NO: 14315708

ORIGINAL FIELD NOTES

CLIENT: Mckenzie County

JOB DESCRIPTION: LIDAR QC

Legal Description:

Party Chief:

Crew: S. Winkler S. Emerson

Date Commenced: 7-8-15 Date Completed:

Weather conditions: Sunny (Haze) 5-10mph

Temperature: 75° ±

Equipment Used: Trimble R8-3 Base &

2 Rovers 2-TSC3

Horizontal Closure:

Vertical Closure:

Vertical Datum: NAVD 88

Comments:

RTK GPS

Job #: 1435108 Date: 7-8-15 Page /

TSC job name: ver:

Coordinate system:

Ref. El.= 2000

Geoid model: 03

BASE STATION

Pt #: Code:

Location

H.I.= m/ ift ( )

Φ= ° ' "

λ= ° ' "

h= ift

Known coords. ☐ Unknown cords.("here", aut. Fix) ☐

Start time:~

ROVER

H.I.= m/ ft ( )

Pt#'s Series

2030 – 2053

2030A - 2053A

R8-3 T@220		HI	165.2 5.42		CB
2030	SPOT * COW				
2030A	SPOT * COW				
2031	SPOT * red				
2031A	SPOT * red				
2032	SPOT * Bare				
2032A	SPOT * Bare				
2032B	SPOT * Bare				

7-8-15 Winkler

(2)

T@	Z13	HI	163.4 5.36		CB
Z033	CP				
Z034	CP				
T@	Z033	HI	4 93		
BS	Z034	HR	4 72		
		H = -0.007		V = 0.016	
Z035	SPOT * High				
Z036	SPOT * Low				
Z036A	SPOT * Low				
Z037	SPOT * Bare				
Z037A	SPOT * Bare				
Z038	CP				
Z039	CP				

7-8-15

(2)

(3)

TC	2038	HI	5^{17}	
BS	2039	HR	4^{72}	
	H = -0.015	V.	0.042	
2040	SPOT + High			
2041	SPOT + med			
2041A	SPOT + med			

7-8-15

(3)

RS-3				
T@	214	HI	161.0 5.28	CB
2042	CP			
2043	CP			
T@	2042	HI	5.21	
BS	2043	HR	4.72	
	H: -0.001		V: 0.001	
2044	SPOT + High			
2045	SPOT + Low			
2045A	SPOT + Low			
2046	SPOT + med			
2046A	SPOT + med			
2047	SPOT + Base			
2047A	SPOT + Base			

7-8-15

(4)

(5)

T @ 217		HI	152.6 5.01		CB
2048	CP				
2049	CP				
T @ 2048		HI	4 86		
BS 2049		HR	4 72		
	H = 0.021		V = -0.023		
2050	SPOT @ High				
2051	SPOT @ med				
2051 A	SPOT @ med				
2052	SPOT @ Base				
2052 A	SPOT @ Base				
2053	SPOT @ Low				
2053 A	SPOT @ Low				

7-8-15

(5)

DATE: 7-9-15 JOB NO: 14315108

ORIGINAL FIELD NOTES

CLIENT: Mckenzie County

JOB DESCRIPTION: Lidar QC

Legal Description:

Party Chief:

Crew: S. Winkler S. Emerson

Date Commenced: Date Completed:

Weather conditions: Sunny 10-20 mph

Temperature: 85° +

Equipment Used: Trimble R8-3 Base &

2 Rovers 2-TSC3

Horizontal Closure:

Vertical Closure:

Vertical Datum: NAVD 88

Comments:

RTK GPS

Job #: 143/5108 Date: 7-9-15 Page /

TSC job name: ver:

Coordinate system:

Ref. El.= 2000

Geoid model: 03

BASE STATION

Pt #: Code:

Location

H.I.= m/ ift ( )

Φ= ° ' "

λ= ° ' "

h= ift

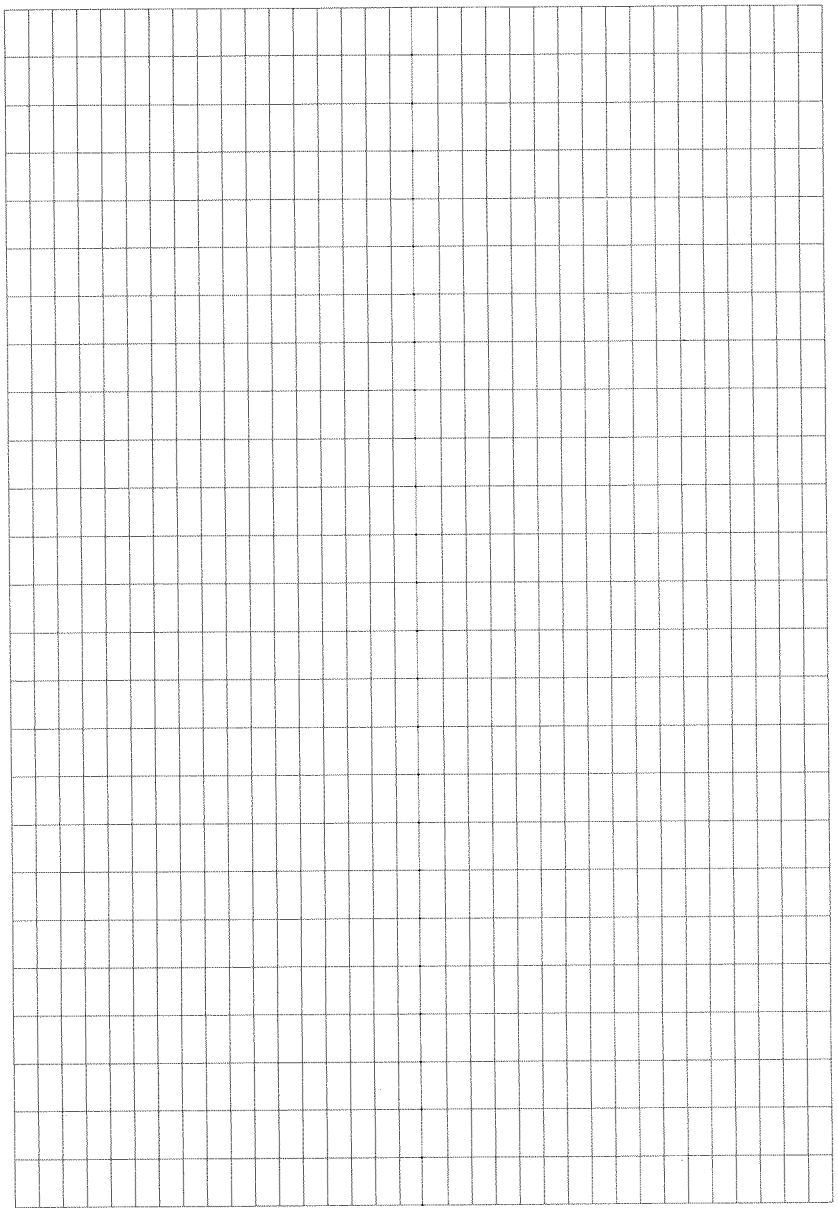
Known coords. ☐ Unknown cords.("here", aut. Fix) ☐

Start time:~

ROVER

H.I.= m/ ft ( )

Pt#'s	Series
2054 - 2072	
2054A - 2072A	



R8-3					
T@	335	HI	159.2 5.22	CB	
2054	SPOT	*	LOW		
2054A	SPOT	*	LOW		
2055	SPOT	*	Bare		
2055A	SPOT	*	Bare		
2056	SPOT	*	med		
2056A	SPOT	*	med		
2056B	SPOT	*	med		
2057	CP				
2058	CP				
T@	2057		HI 4.87		
BS	2058		HR 4.22		
	H:-0.011		V:-0.097		
2059	SPOT	High			

7-9-15 Winkler

(2)

2060	SPOT	±	Low	
2060A	SPOT	±	Low	
~~R&-3~~				
TC	105	HI	156.1 5.12	CB
2061	CP			
2062	CP			
TC 2061		HI	4.95	
BS 2062		HR	4.72	
	H:- -0.041		V= 0.089	
2063	SPOT	±	High	
2064	SPOT	±	High	
2064A	SPOT	±	High	
2065	SPOT	±	Bare	
2065A	SPOT	±	Bare	

7-9-15

(2)

③

2066	SPOT	*	Low		
2066A	Spot	*	Low		
2067	SPOT	*	med		
2067A	SPOT	*	med		
R8-3 T@	336	HI	153.8 5.0J-		CB
2068	SPOT	*	Low		
2068A	SPOT	*	Low		
2069	SPOT	*	med		
2069A	SPOT	*	med		
2070	SPOT	*	Bare		
2070A	SPOT	*	Bare		

7-9-15

③

(4)

2071	SPOT * High				
2071A	SPOT * High				
2072	SPOT * Low				
2072	SPOT * Low				

7-9-15

(4)

DATE: 7-10-15 JOB NO: 14315108

ORIGINAL FIELD NOTES

CLIENT: Mckenzie County

JOB DESCRIPTION: LIDAR QC

Legal Description:

Party Chief:

Crew: S. Winkler S. Emerson

Date Commenced: 7-10-15 Date Completed:

Weather conditions: Sunny 10-20 mph

Temperature: 85 +

Equipment Used: Trimble R8-3 Base & 2 Rovers 2- TSC 3

Horizontal Closure:

Vertical Closure:

Vertical Datum: NAVD 88

Comments:

RTK GPS

Job #: 14315708 Date: 7-10-15 Page /

TSC job name: ver:

Coordinate system:

Ref. El.= 2000

Geoid model: 03

BASE STATION

Pt #: Code:

Location

H.I.= m/ ift ( )

Φ= ° ' "

λ= ° ' "

h= ift

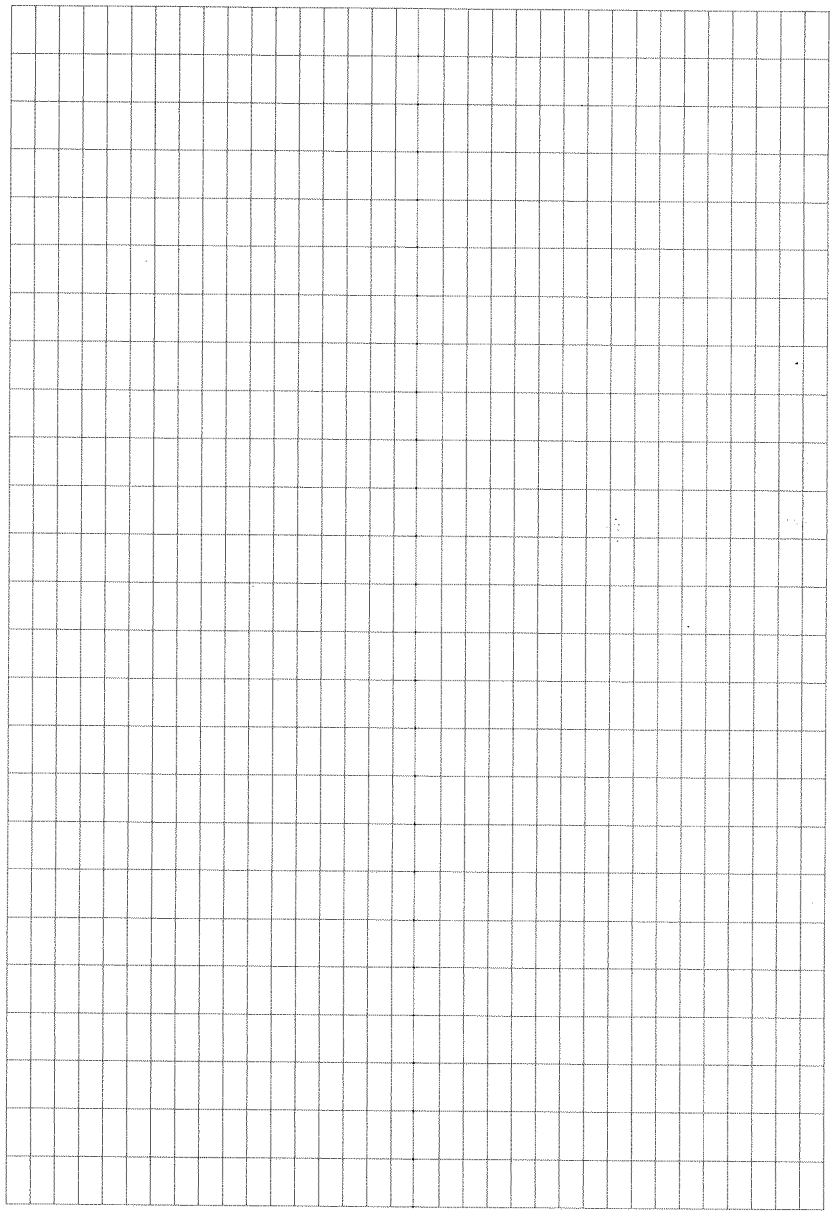
Known coords. ☐ Unknown cords.("here", aut. Fix) ☐

Start time:~

ROVER

H.I.= m/ ft ( )

Pt#'s	Series
2073 - 2091	
2073A - 2091A	



①

Te	230	HI	155.1 5.09	CB
2073	SPOT	+ Base		
2073A	SPOT	+ Base		
2074	SPOT	+ High		
2074A	SPOT	+ High		
2075	SPOT	+ Low		
2075A	SPOT	+ Low		
2076	SPOT	+ High		
2076A	"	"		
* 2076B	"	"		
* 2076C	"	"		
2077	SPOT	+ Med		
2077A	SPOT	+ Med		

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7-10-15 Winkler ①

(2)

2078	SPOT * med
2078A	SPOT * med
2079	SPOT * med
2079A	SPOT * med
2080	SPOT * Bare
2080A	SPOT * Bare

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No. 352

7-10-15

(2)

(3)

TC 106	HI	155.3 5.10	CB	
2081	SPOT * Bare			
2081A	SPOT * Bare			
2082	SPOT * ~~Bare~~ High			
2082A	" "			
2082B	" "			
2083	SPOT * ~~Low~~ med			
2083A	SPOT * ~~Low~~ med			
2084	SPOT * Low			
2084A	" "			
2084B	" "			

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No. 352

7-10-15

(3)

(4)

2085	SPOT + Base
2085A	" "
2085B	" "
2086	SPOT + mod
2086A	SPOT + mod
2086B	SPOT + mod
2087	SPOT + Low
2087A	SPOT + Low
2087B	SPOT + Low

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ALL WEATHER WRITING PAPER
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No. 352

7-10-15

(4)

(5)

Te 342	HI	153.8 5.04	CB	
2088	SPOT * Low			
2088A	SPOT * Low			
2089	SPOT * Mod			
2089 A	" "			
2089 B	" "			
2090	SPOT * High			
2090A	SPOT * High			
2091	SPOT * Base			
2091A	SPOT * Base			
2091B	SPOT * Base			

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No. 352

7-10-15

(5)

DATE: 7-11-15 JOB NO: 14315108

ORIGINAL FIELD NOTES

CLIENT: Mckenzie County

JOB DESCRIPTION: LIDAR QC

Legal Description:

Party Chief:

Crew: S. Winkler S. Emerson

Date Commenced: 7-11-15 Date Completed:

Weather conditions: Sunny 0-10mph

Temperature: 75° ±

Equipment Used: Trimble R8-3 Base &
2 Rovers 2-TSC3

Horizontal Closure:

Vertical Closure:

Vertical Datum: NAVD 88

Comments:

RTK GPS			
Job #: 14315108	Date: 7-10-15	Page /	
TSC job name:		ver:	
Coordinate system:			
Ref. El.= 2000			
Geoid model: 03			
BASE STATION			
Pt #:		Code:	
Location			
H.I.=	m/	ift ( )	
Φ=	°	'	"
λ=	°	'	"
h=	ift		
Known coords. ☐	Unknown cords.("here", aut. Fix) ☐		
Start time:~			
ROVER			
H.I.=	m/ 6.865	ft ( )	
Pt#'s	Series		
2092 - 2095			
2092A - 2095A			

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①	7-14-15	Winkler		
TC	341	HI	164.4 5,39	CB
2092	SPOT @ Low			
2092A	SPOT @ Low			
2093	SPOT @ Bare			
2093A	SPOT @ Bare			
2094	SPOT @ High			
2094A	SPOT @ High			
2095	SPOT @ med			
2095	SPOT @ med			