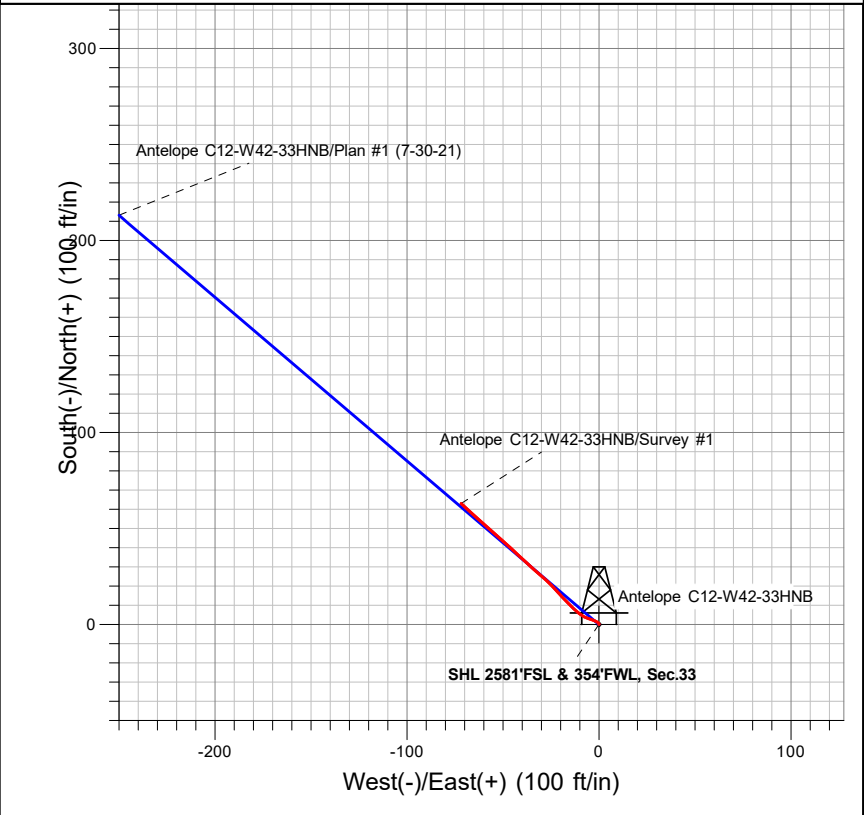
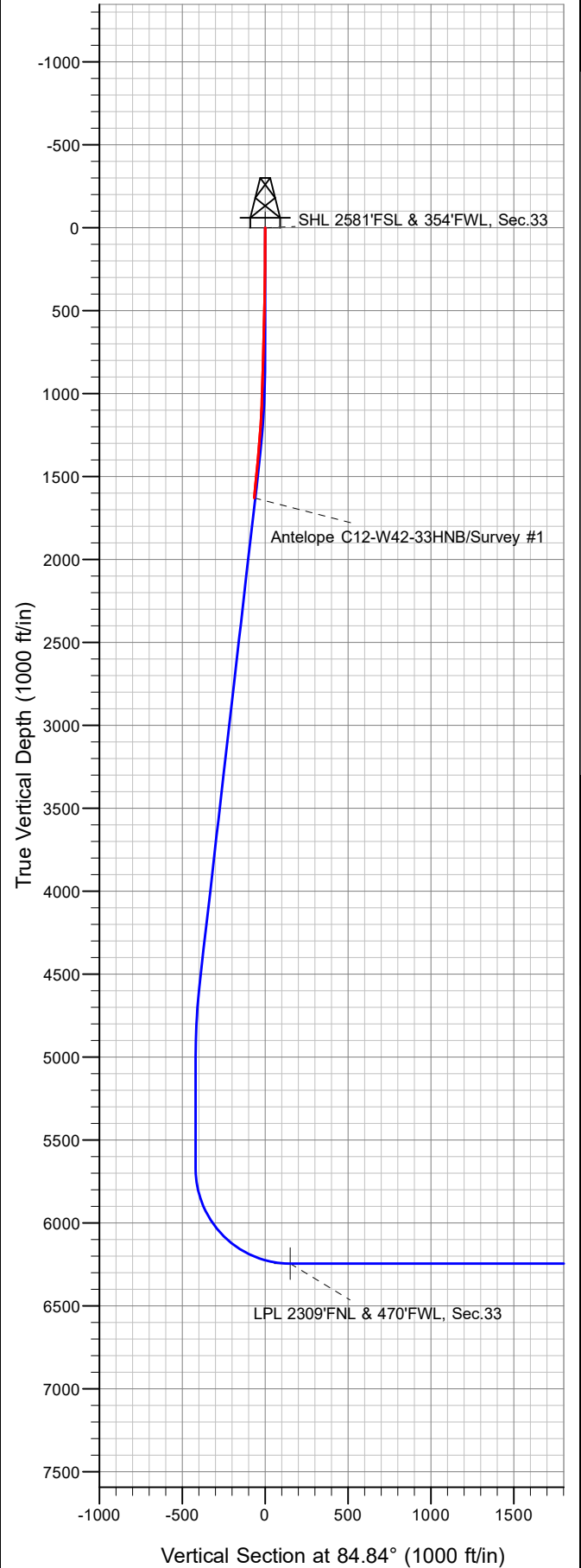


BONANZA CREEK ENERGY OPERATING



LEGEND

- ◆ Antelope C12-W42-33HNB, Antelope C12-W42-33HNB Wellbore #1, Plan #1 (7-30-21) VO
- Antelope C12-W42-33HNB Wellbore #1
- Survey #1

Final Survey Plot

Project: SEC.33-T5N-R62W
 Site: Antelope C-33 Pad Sec.33-T5N-R62W
 Well: Antelope C12-W42-33HNB
 Plan: Antelope C12-W42-33HNB Wellbore #1



BONANZA CREEK ENERGY OPERATING

SEC.33-T5N-R62W

Antelope C-33 Pad Sec.33-T5N-R62W

Antelope C12-W42-33HNB

Antelope C12-W42-33HNB Wellbore #1

Survey: Survey #1

Standard Survey Report

19 August, 2021

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope C12-W42-33HNB
Project:	SEC.33-T5N-R62W	TVD Reference:	WELL @ 4591.0ft (Ensign 122 RKB - 13')
Site:	Antelope C-33 Pad Sec.33-T5N-R62W	MD Reference:	WELL @ 4591.0ft (Ensign 122 RKB - 13')
Well:	Antelope C12-W42-33HNB	North Reference:	True
Wellbore:	Antelope C12-W42-33HNB Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Antelope C12-W42-33HNB Wellbore #1	Database:	US_EDM

Project	SEC.33-T5N-R62W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Antelope C-33 Pad Sec.33-T5N-R62W				
Site Position:		Northing:	1,374,665.01 usft	Latitude:	40.356021
From:	Lat/Long	Easting:	3,324,145.69 usft	Longitude:	-104.336866
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.75 °

Well	Antelope C12-W42-33HNB					
Well Position	+N/-S	0.0 ft	Northing:	1,374,664.07 usft	Latitude:	40.356020
	+E/-W	0.0 ft	Easting:	3,324,105.60 usft	Longitude:	-104.337010
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,578.0 ft

Wellbore	Antelope C12-W42-33HNB Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	08/04/2021	7.79	66.80	51,911.49824722

Design	Antelope C12-W42-33HNB Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	84.84	

Survey Program	Date	08/19/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
148.0	1,634.0	Survey #1 (Antelope C12-W42-33HNB Wel	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
148.0	0.40	350.60	148.0	0.5	-0.1	0.0	0.27	0.27	0.00	
239.0	0.80	299.60	239.0	1.1	-0.7	-0.6	0.69	0.44	-56.04	
330.0	0.90	300.10	330.0	1.8	-1.9	-1.7	0.11	0.11	0.55	
449.0	1.10	286.20	449.0	2.6	-3.8	-3.5	0.26	0.17	-11.68	
539.0	1.30	286.10	538.9	3.1	-5.6	-5.3	0.22	0.22	-0.11	
628.0	1.80	296.80	627.9	4.0	-7.8	-7.4	0.65	0.56	12.02	
717.0	2.30	310.70	716.9	5.8	-10.4	-9.8	0.79	0.56	15.62	
806.0	2.40	312.80	805.8	8.3	-13.1	-12.3	0.15	0.11	2.36	
896.0	2.70	316.50	895.7	11.1	-16.0	-14.9	0.38	0.33	4.11	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope C12-W42-33HNB
Project:	SEC.33-T5N-R62W	TVD Reference:	WELL @ 4591.0ft (Ensign 122 RKB - 13')
Site:	Antelope C-33 Pad Sec.33-T5N-R62W	MD Reference:	WELL @ 4591.0ft (Ensign 122 RKB - 13')
Well:	Antelope C12-W42-33HNB	North Reference:	True
Wellbore:	Antelope C12-W42-33HNB Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Antelope C12-W42-33HNB Wellbore #1	Database:	US_EDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
985.0	2.80	315.40	984.6	14.1	-18.9	-17.6	0.13	0.11	-1.24	
1,075.0	4.00	319.30	1,074.4	18.1	-22.5	-20.8	1.36	1.33	4.33	
1,165.0	5.30	311.70	1,164.1	23.2	-27.7	-25.5	1.60	1.44	-8.44	
1,254.0	5.80	311.40	1,252.7	28.9	-34.1	-31.4	0.56	0.56	-0.34	
1,344.0	7.20	313.60	1,342.1	35.8	-41.6	-38.2	1.58	1.56	2.44	
1,433.0	8.60	311.50	1,430.3	44.1	-50.6	-46.5	1.61	1.57	-2.36	
1,522.0	8.20	311.90	1,518.3	52.7	-60.3	-55.3	0.45	-0.45	0.45	
1,574.0	7.80	311.90	1,569.8	57.6	-65.7	-60.3	0.77	-0.77	0.00	
1,634.0	7.80	311.90	1,629.3	63.0	-71.8	-65.8	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____