

30-025-44040

One Energy Partners

WELL DETAILS: Cannon BS3 State Com 1H

GE 3550.1 + 25 KB @ 3575.1 usft (25' KB)

Ground Level: 3550.1

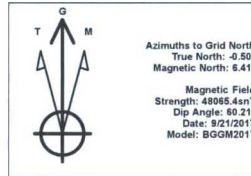
0.0 0.0 Northing 499293.13 Easting 788237.23 Latitude 32° 22' 9.177" N Longitude 103° 23' 59.199" W

SECTION DETAILS

Plan #1

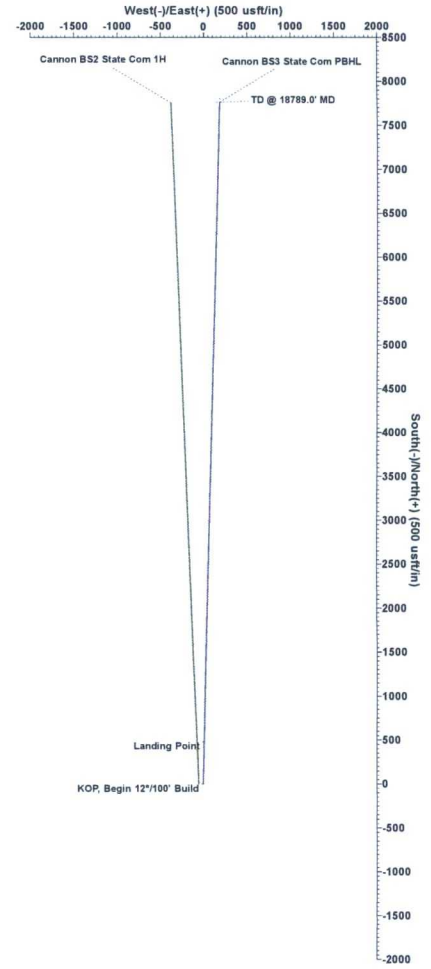
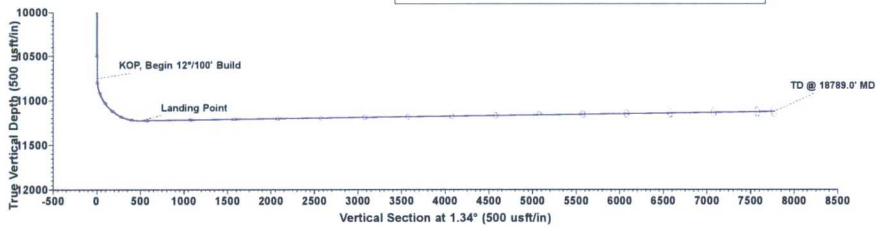
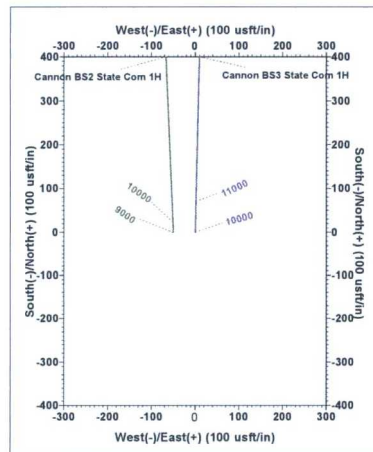
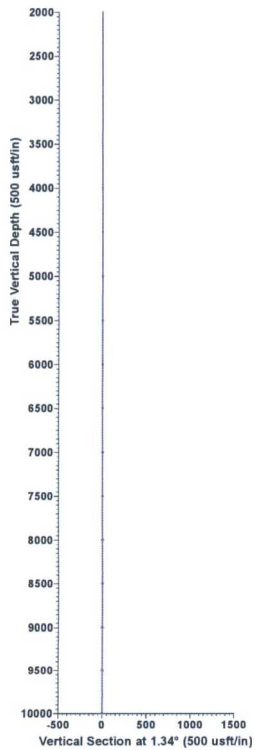
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	
2	10750.8	0.00	0.00	10750.8	0.0	0.0	0.00	0.0	KOP, Begin 12"/100' Build
3	11507.5	90.80	1.34	11228.3	484.0	11.3	12.00	484.1	Landing Point
4	18789.0	90.80	1.34	11126.6	7762.8	181.5	0.00	7764.9	TD @ 18789.0' MD

Lea County, NM (NAD 27)
Cannon B Pad
Cannon BS3 State Com 1H
Wellbore #1
Plan #1
25' KB



CASING DETAILS

TVD	MD	Name
1000.0	1000.0	13 3/8"



HALLIBURTON | Sperry Drilling

Created By: Bethany Johnson 10/19/2017 10:19:22 AM

25' KB

One Energy Partners

Lea County, NM (NAD 27) Cannon B Pad

API#

Cannon BS3 State Com 1H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services

Combo Report

22 September, 2017

Well Coordinates: 32° 22' 09.18" N
103° 23' 59.20" W

NAD 1927 (NADCON CONUS)
New Mexico East 3001
499,293.13 N
788,237.23 E

Ground Level: 3,550.10 usft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well Cannon BS3 State Com 1H

GE 3550.1 + 25 KB @ 3575.1usft (25' KB)

N

Grid

API - US Survey Feet

Version: 5000.1 Build: 81D

Report Version: Midcon Combo v1.11

HALLIBURTON

Plan Report for Cannon BS3 State Com 1H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
0.0	0.00	0.00	-3,575.1	0.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
100.0	0.00	0.00	-3,475.1	100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
200.0	0.00	0.00	-3,375.1	200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
300.0	0.00	0.00	-3,275.1	300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
400.0	0.00	0.00	-3,175.1	400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
500.0	0.00	0.00	-3,075.1	500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
600.0	0.00	0.00	-2,975.1	600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
700.0	0.00	0.00	-2,875.1	700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
800.0	0.00	0.00	-2,775.1	800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
900.0	0.00	0.00	-2,675.1	900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,000.0	0.00	0.00	-2,575.1	1,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,100.0	0.00	0.00	-2,475.1	1,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,200.0	0.00	0.00	-2,375.1	1,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,300.0	0.00	0.00	-2,275.1	1,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,400.0	0.00	0.00	-2,175.1	1,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,500.0	0.00	0.00	-2,075.1	1,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,600.0	0.00	0.00	-1,975.1	1,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,700.0	0.00	0.00	-1,875.1	1,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,800.0	0.00	0.00	-1,775.1	1,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
1,875.0	0.00	0.00	-1,700.1	1,875.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	Rustler
1,900.0	0.00	0.00	-1,675.1	1,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,000.0	0.00	0.00	-1,575.1	2,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,075.0	0.00	0.00	-1,500.1	2,075.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	Top of Salt
2,100.0	0.00	0.00	-1,475.1	2,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,200.0	0.00	0.00	-1,375.1	2,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,300.0	0.00	0.00	-1,275.1	2,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,400.0	0.00	0.00	-1,175.1	2,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,500.0	0.00	0.00	-1,075.1	2,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,600.0	0.00	0.00	-975.1	2,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,700.0	0.00	0.00	-875.1	2,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,800.0	0.00	0.00	-775.1	2,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
2,900.0	0.00	0.00	-675.1	2,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,000.0	0.00	0.00	-575.1	3,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,100.0	0.00	0.00	-475.1	3,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,200.0	0.00	0.00	-375.1	3,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,300.0	0.00	0.00	-275.1	3,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,400.0	0.00	0.00	-175.1	3,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,500.0	0.00	0.00	-75.1	3,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,600.0	0.00	0.00	24.9	3,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,700.0	0.00	0.00	124.9	3,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,800.0	0.00	0.00	224.9	3,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	

Plan Report for Cannon BS3 State Com 1H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
3,900.0	0.00	0.00	324.9	3,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
3,925.0	0.00	0.00	349.9	3,925.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	Base of Salt
4,000.0	0.00	0.00	424.9	4,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,100.0	0.00	0.00	524.9	4,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,200.0	0.00	0.00	624.9	4,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,300.0	0.00	0.00	724.9	4,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,400.0	0.00	0.00	824.9	4,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,500.0	0.00	0.00	924.9	4,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,600.0	0.00	0.00	1,024.9	4,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,700.0	0.00	0.00	1,124.9	4,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,800.0	0.00	0.00	1,224.9	4,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
4,900.0	0.00	0.00	1,324.9	4,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,000.0	0.00	0.00	1,424.9	5,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,100.0	0.00	0.00	1,524.9	5,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,200.0	0.00	0.00	1,624.9	5,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,300.0	0.00	0.00	1,724.9	5,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,400.0	0.00	0.00	1,824.9	5,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,500.0	0.00	0.00	1,924.9	5,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,600.0	0.00	0.00	2,024.9	5,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,700.0	0.00	0.00	2,124.9	5,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,775.0	0.00	0.00	2,199.9	5,775.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	Delaware
5,800.0	0.00	0.00	2,224.9	5,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
5,900.0	0.00	0.00	2,324.9	5,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,000.0	0.00	0.00	2,424.9	6,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,100.0	0.00	0.00	2,524.9	6,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,200.0	0.00	0.00	2,624.9	6,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,300.0	0.00	0.00	2,724.9	6,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,400.0	0.00	0.00	2,824.9	6,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,500.0	0.00	0.00	2,924.9	6,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,600.0	0.00	0.00	3,024.9	6,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,700.0	0.00	0.00	3,124.9	6,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,800.0	0.00	0.00	3,224.9	6,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
6,900.0	0.00	0.00	3,324.9	6,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,000.0	0.00	0.00	3,424.9	7,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,100.0	0.00	0.00	3,524.9	7,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,200.0	0.00	0.00	3,624.9	7,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,300.0	0.00	0.00	3,724.9	7,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,400.0	0.00	0.00	3,824.9	7,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,500.0	0.00	0.00	3,924.9	7,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,600.0	0.00	0.00	4,024.9	7,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,700.0	0.00	0.00	4,124.9	7,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	

Plan Report for Cannon BS3 State Com 1H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
7,800.0	0.00	0.00	4,224.9	7,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
7,900.0	0.00	0.00	4,324.9	7,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,000.0	0.00	0.00	4,424.9	8,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,100.0	0.00	0.00	4,524.9	8,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,200.0	0.00	0.00	4,624.9	8,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,300.0	0.00	0.00	4,724.9	8,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,400.0	0.00	0.00	4,824.9	8,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,435.0	0.00	0.00	4,859.9	8,435.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	Bone Spring
8,500.0	0.00	0.00	4,924.9	8,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,575.0	0.00	0.00	4,999.9	8,575.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	Avalon
8,600.0	0.00	0.00	5,024.9	8,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,700.0	0.00	0.00	5,124.9	8,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,800.0	0.00	0.00	5,224.9	8,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
8,900.0	0.00	0.00	5,324.9	8,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,000.0	0.00	0.00	5,424.9	9,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,100.0	0.00	0.00	5,524.9	9,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,125.0	0.00	0.00	5,549.9	9,125.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	1st Bone Spring
9,200.0	0.00	0.00	5,624.9	9,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,300.0	0.00	0.00	5,724.9	9,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,400.0	0.00	0.00	5,824.9	9,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,500.0	0.00	0.00	5,924.9	9,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,600.0	0.00	0.00	6,024.9	9,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	2nd Bone Spring
9,700.0	0.00	0.00	6,124.9	9,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,800.0	0.00	0.00	6,224.9	9,800.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
9,900.0	0.00	0.00	6,324.9	9,900.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,000.0	0.00	0.00	6,424.9	10,000.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,100.0	0.00	0.00	6,524.9	10,100.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,200.0	0.00	0.00	6,624.9	10,200.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,300.0	0.00	0.00	6,724.9	10,300.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,400.0	0.00	0.00	6,824.9	10,400.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,500.0	0.00	0.00	6,924.9	10,500.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,600.0	0.00	0.00	7,024.9	10,600.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,700.0	0.00	0.00	7,124.9	10,700.0	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	
10,750.8	0.00	0.00	7,175.7	10,750.8	0.00 N	0.00 E	499,293.13	788,237.23	0.00	0.0	KOP, Begin 12"/100' Build
10,775.0	2.90	1.34	7,199.9	10,775.0	0.61 N	0.01 E	499,293.74	788,237.24	12.00	0.6	
10,800.0	5.90	1.34	7,224.8	10,799.9	2.53 N	0.06 E	499,295.66	788,237.29	12.00	2.5	
10,825.0	8.90	1.34	7,249.6	10,824.7	5.75 N	0.13 E	499,298.88	788,237.36	12.00	5.7	
10,850.0	11.90	1.34	7,274.2	10,849.3	10.26 N	0.24 E	499,303.39	788,237.47	12.00	10.3	
10,875.0	14.90	1.34	7,298.5	10,873.6	16.05 N	0.38 E	499,309.18	788,237.61	12.00	16.1	
10,900.0	17.90	1.34	7,322.5	10,897.6	23.10 N	0.54 E	499,316.23	788,237.77	12.00	23.1	
10,925.0	20.90	1.34	7,346.1	10,921.2	31.40 N	0.73 E	499,324.53	788,237.96	12.00	31.4	

Plan Report for Cannon BS3 State Com 1H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
10,950.0	23.90	1.34	7,369.2	10,944.3	40.92 N	0.96 E	499,334.05	788,238.19	12.00	40.9	
10,975.0	26.90	1.34	7,391.8	10,966.9	51.64 N	1.21 E	499,344.77	788,238.44	12.00	51.7	
11,000.0	29.90	1.34	7,413.7	10,988.8	63.53 N	1.49 E	499,356.66	788,238.72	12.00	63.5	
11,013.0	31.45	1.34	7,424.9	11,000.0	70.14 N	1.64 E	499,363.27	788,238.87	12.00	70.2	3rd Bone Spring
11,025.0	32.90	1.34	7,435.1	11,010.2	76.55 N	1.79 E	499,369.68	788,239.02	12.00	76.6	
11,050.0	35.90	1.34	7,455.7	11,030.8	90.67 N	2.12 E	499,383.80	788,239.35	12.00	90.7	
11,075.0	38.90	1.34	7,475.6	11,050.7	105.84 N	2.48 E	499,398.97	788,239.71	12.00	105.9	
11,100.0	41.90	1.34	7,494.6	11,069.7	122.04 N	2.85 E	499,415.17	788,240.08	12.00	122.1	
11,125.0	44.90	1.34	7,512.8	11,087.9	139.21 N	3.26 E	499,432.34	788,240.49	12.00	139.2	
11,150.0	47.90	1.34	7,530.0	11,105.1	157.31 N	3.68 E	499,450.44	788,240.91	12.00	157.3	
11,175.0	50.90	1.34	7,546.3	11,121.4	176.28 N	4.12 E	499,469.41	788,241.35	12.00	176.3	
11,200.0	53.90	1.34	7,561.5	11,136.6	196.08 N	4.59 E	499,489.21	788,241.82	12.00	196.1	
11,225.0	56.90	1.34	7,575.7	11,150.8	216.65 N	5.07 E	499,509.78	788,242.30	12.00	216.7	
11,250.0	59.90	1.34	7,588.8	11,163.9	237.93 N	5.56 E	499,531.06	788,242.79	12.00	238.0	
11,275.0	62.90	1.34	7,600.8	11,175.9	259.88 N	6.08 E	499,553.01	788,243.31	12.00	259.9	
11,300.0	65.90	1.34	7,611.6	11,186.7	282.41 N	6.60 E	499,575.54	788,243.83	12.00	282.5	
11,325.0	68.90	1.34	7,621.2	11,196.3	305.48 N	7.14 E	499,598.61	788,244.37	12.00	305.6	
11,350.0	71.90	1.34	7,629.6	11,204.7	329.02 N	7.69 E	499,622.15	788,244.92	12.00	329.1	
11,375.0	74.90	1.34	7,636.7	11,211.8	352.97 N	8.25 E	499,646.10	788,245.48	12.00	353.1	
11,400.0	77.90	1.34	7,642.6	11,217.7	377.26 N	8.82 E	499,670.39	788,246.05	12.00	377.4	
11,425.0	80.90	1.34	7,647.2	11,222.3	401.83 N	9.40 E	499,694.96	788,246.63	12.00	401.9	
11,450.0	83.90	1.34	7,650.5	11,225.6	426.60 N	9.98 E	499,719.73	788,247.21	12.00	426.7	
11,475.0	86.90	1.34	7,652.5	11,227.6	451.51 N	10.56 E	499,744.64	788,247.79	12.00	451.6	
11,500.0	89.90	1.34	7,653.2	11,228.3	476.49 N	11.14 E	499,769.62	788,248.37	12.00	476.6	
11,507.5	90.80	1.34	7,653.2	11,228.3	484.00 N	11.32 E	499,777.13	788,248.55	12.00	484.1	Landing Point
11,600.0	90.80	1.34	7,651.9	11,227.0	576.45 N	13.48 E	499,869.58	788,250.71	0.00	576.6	
11,700.0	90.80	1.34	7,650.5	11,225.6	676.41 N	15.82 E	499,969.54	788,253.05	0.00	676.6	
11,800.0	90.80	1.34	7,649.1	11,224.2	776.38 N	18.16 E	500,069.51	788,255.39	0.00	776.6	
11,900.0	90.80	1.34	7,647.7	11,222.8	876.34 N	20.49 E	500,169.47	788,257.72	0.00	876.6	
12,000.0	90.80	1.34	7,646.3	11,221.4	976.30 N	22.83 E	500,269.43	788,260.06	0.00	976.6	
12,100.0	90.80	1.34	7,644.9	11,220.0	1,076.27 N	25.17 E	500,369.40	788,262.40	0.00	1,076.6	
12,200.0	90.80	1.34	7,643.5	11,218.6	1,176.23 N	27.51 E	500,469.36	788,264.74	0.00	1,176.6	
12,300.0	90.80	1.34	7,642.1	11,217.2	1,276.19 N	29.84 E	500,569.32	788,267.07	0.00	1,276.5	
12,400.0	90.80	1.34	7,640.7	11,215.8	1,376.15 N	32.18 E	500,669.28	788,269.41	0.00	1,376.5	
12,500.0	90.80	1.34	7,639.3	11,214.4	1,476.12 N	34.52 E	500,769.25	788,271.75	0.00	1,476.5	
12,600.0	90.80	1.34	7,637.9	11,213.0	1,576.08 N	36.86 E	500,869.21	788,274.09	0.00	1,576.5	
12,700.0	90.80	1.34	7,636.5	11,211.6	1,676.04 N	39.20 E	500,969.17	788,276.43	0.00	1,676.5	
12,800.0	90.80	1.34	7,635.1	11,210.2	1,776.01 N	41.53 E	501,069.14	788,278.76	0.00	1,776.5	
12,900.0	90.80	1.34	7,633.7	11,208.8	1,875.97 N	43.87 E	501,169.10	788,281.10	0.00	1,876.5	
13,000.0	90.80	1.34	7,632.3	11,207.4	1,975.93 N	46.21 E	501,269.06	788,283.44	0.00	1,976.5	
13,100.0	90.80	1.34	7,630.9	11,206.0	2,075.89 N	48.55 E	501,369.02	788,285.78	0.00	2,076.5	

Plan Report for Cannon BS3 State Com 1H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Easting (usft)	Map Coordinates Northing (usft)	Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
13,200.0	90.80	1.34	7,629.5	11,204.6	2,175.86 N	50.88 E	501,468.99	788,288.11	0.00	2,176.5	
13,300.0	90.80	1.34	7,628.1	11,203.2	2,275.82 N	53.22 E	501,568.95	788,290.45	0.00	2,276.4	
13,400.0	90.80	1.34	7,626.7	11,201.8	2,375.78 N	55.56 E	501,668.91	788,292.79	0.00	2,376.4	
13,500.0	90.80	1.34	7,625.3	11,200.4	2,475.75 N	57.90 E	501,768.88	788,295.13	0.00	2,476.4	
13,600.0	90.80	1.34	7,623.9	11,199.0	2,575.71 N	60.24 E	501,868.84	788,297.47	0.00	2,576.4	
13,700.0	90.80	1.34	7,622.6	11,197.7	2,675.67 N	62.57 E	501,968.80	788,299.80	0.00	2,676.4	
13,800.0	90.80	1.34	7,621.2	11,196.3	2,775.64 N	64.91 E	502,068.77	788,302.14	0.00	2,776.4	
13,900.0	90.80	1.34	7,619.8	11,194.9	2,875.60 N	67.25 E	502,168.73	788,304.48	0.00	2,876.4	
14,000.0	90.80	1.34	7,618.4	11,193.5	2,975.56 N	69.59 E	502,268.69	788,306.82	0.00	2,976.4	
14,100.0	90.80	1.34	7,617.0	11,192.1	3,075.52 N	71.92 E	502,368.65	788,309.15	0.00	3,076.4	
14,200.0	90.80	1.34	7,615.6	11,190.7	3,175.49 N	74.26 E	502,468.62	788,311.49	0.00	3,176.4	
14,300.0	90.80	1.34	7,614.2	11,189.3	3,275.45 N	76.60 E	502,568.58	788,313.83	0.00	3,276.3	
14,400.0	90.80	1.34	7,612.8	11,187.9	3,375.41 N	78.94 E	502,668.54	788,316.17	0.00	3,376.3	
14,500.0	90.80	1.34	7,611.4	11,186.5	3,475.38 N	81.28 E	502,768.51	788,318.51	0.00	3,476.3	
14,600.0	90.80	1.34	7,610.0	11,185.1	3,575.34 N	83.61 E	502,868.47	788,320.84	0.00	3,576.3	
14,700.0	90.80	1.34	7,608.6	11,183.7	3,675.30 N	85.95 E	502,968.43	788,323.18	0.00	3,676.3	
14,800.0	90.80	1.34	7,607.2	11,182.3	3,775.26 N	88.29 E	503,068.39	788,325.52	0.00	3,776.3	
14,900.0	90.80	1.34	7,605.8	11,180.9	3,875.23 N	90.63 E	503,168.36	788,327.86	0.00	3,876.3	
15,000.0	90.80	1.34	7,604.4	11,179.5	3,975.19 N	92.96 E	503,268.32	788,330.19	0.00	3,976.3	
15,100.0	90.80	1.34	7,603.0	11,178.1	4,075.15 N	95.30 E	503,368.28	788,332.53	0.00	4,076.3	
15,200.0	90.80	1.34	7,601.6	11,176.7	4,175.12 N	97.64 E	503,468.25	788,334.87	0.00	4,176.3	
15,300.0	90.80	1.34	7,600.2	11,175.3	4,275.08 N	99.98 E	503,568.21	788,337.21	0.00	4,276.2	
15,400.0	90.80	1.34	7,598.8	11,173.9	4,375.04 N	102.31 E	503,668.17	788,339.54	0.00	4,376.2	
15,500.0	90.80	1.34	7,597.4	11,172.5	4,475.00 N	104.65 E	503,768.13	788,341.88	0.00	4,476.2	
15,600.0	90.80	1.34	7,596.0	11,171.1	4,574.97 N	106.99 E	503,868.10	788,344.22	0.00	4,576.2	
15,700.0	90.80	1.34	7,594.6	11,169.7	4,674.93 N	109.33 E	503,968.06	788,346.56	0.00	4,676.2	
15,800.0	90.80	1.34	7,593.2	11,168.3	4,774.89 N	111.67 E	504,068.02	788,348.90	0.00	4,776.2	
15,900.0	90.80	1.34	7,591.8	11,166.9	4,874.86 N	114.00 E	504,167.99	788,351.23	0.00	4,876.2	
16,000.0	90.80	1.34	7,590.4	11,165.5	4,974.82 N	116.34 E	504,267.95	788,353.57	0.00	4,976.2	
16,100.0	90.80	1.34	7,589.0	11,164.1	5,074.78 N	118.68 E	504,367.91	788,355.91	0.00	5,076.2	
16,200.0	90.80	1.34	7,587.6	11,162.7	5,174.75 N	121.02 E	504,467.88	788,358.25	0.00	5,176.2	
16,300.0	90.80	1.34	7,586.3	11,161.4	5,274.71 N	123.35 E	504,567.84	788,360.58	0.00	5,276.2	
16,400.0	90.80	1.34	7,584.9	11,160.0	5,374.67 N	125.69 E	504,667.80	788,362.92	0.00	5,376.1	
16,500.0	90.80	1.34	7,583.5	11,158.6	5,474.63 N	128.03 E	504,767.76	788,365.26	0.00	5,476.1	
16,600.0	90.80	1.34	7,582.1	11,157.2	5,574.60 N	130.37 E	504,867.73	788,367.60	0.00	5,576.1	
16,700.0	90.80	1.34	7,580.7	11,155.8	5,674.56 N	132.71 E	504,967.69	788,369.94	0.00	5,676.1	
16,800.0	90.80	1.34	7,579.3	11,154.4	5,774.52 N	135.04 E	505,067.65	788,372.27	0.00	5,776.1	
16,900.0	90.80	1.34	7,577.9	11,153.0	5,874.49 N	137.38 E	505,167.62	788,374.61	0.00	5,876.1	
17,000.0	90.80	1.34	7,576.5	11,151.6	5,974.45 N	139.72 E	505,267.58	788,376.95	0.00	5,976.1	
17,100.0	90.80	1.34	7,575.1	11,150.2	6,074.41 N	142.06 E	505,367.54	788,379.29	0.00	6,076.1	
17,200.0	90.80	1.34	7,573.7	11,148.8	6,174.37 N	144.39 E	505,467.50	788,381.62	0.00	6,176.1	

Plan Report for Cannon BS3 State Com 1H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Easting (usft)	Map Coordinates Northing (usft)	Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
17,300.0	90.80	1.34	7,572.3	11,147.4	6,274.34 N	146.73 E	505,567.47	788,383.96	0.00	6,276.1	
17,400.0	90.80	1.34	7,570.9	11,146.0	6,374.30 N	149.07 E	505,667.43	788,386.30	0.00	6,376.0	
17,500.0	90.80	1.34	7,569.5	11,144.6	6,474.26 N	151.41 E	505,767.39	788,388.64	0.00	6,476.0	
17,600.0	90.80	1.34	7,568.1	11,143.2	6,574.23 N	153.74 E	505,867.36	788,390.97	0.00	6,576.0	
17,700.0	90.80	1.34	7,566.7	11,141.8	6,674.19 N	156.08 E	505,967.32	788,393.31	0.00	6,676.0	
17,800.0	90.80	1.34	7,565.3	11,140.4	6,774.15 N	158.42 E	506,067.28	788,395.65	0.00	6,776.0	
17,900.0	90.80	1.34	7,563.9	11,139.0	6,874.12 N	160.76 E	506,167.25	788,397.99	0.00	6,876.0	
18,000.0	90.80	1.34	7,562.5	11,137.6	6,974.08 N	163.10 E	506,267.21	788,400.33	0.00	6,976.0	
18,100.0	90.80	1.34	7,561.1	11,136.2	7,074.04 N	165.43 E	506,367.17	788,402.66	0.00	7,076.0	
18,200.0	90.80	1.34	7,559.7	11,134.8	7,174.00 N	167.77 E	506,467.13	788,405.00	0.00	7,176.0	
18,300.0	90.80	1.34	7,558.3	11,133.4	7,273.97 N	170.11 E	506,567.10	788,407.34	0.00	7,276.0	
18,400.0	90.80	1.34	7,556.9	11,132.0	7,373.93 N	172.45 E	506,667.06	788,409.68	0.00	7,375.9	
18,500.0	90.80	1.34	7,555.5	11,130.6	7,473.89 N	174.78 E	506,767.02	788,412.01	0.00	7,475.9	
18,600.0	90.80	1.34	7,554.1	11,129.2	7,573.86 N	177.12 E	506,866.99	788,414.35	0.00	7,575.9	
18,700.0	90.80	1.34	7,552.7	11,127.8	7,673.82 N	179.46 E	506,966.95	788,416.69	0.00	7,675.9	
18,789.0	90.80	1.34	7,551.5	11,126.6	7,762.77 N	181.54 E	507,055.90	788,418.77	0.00	7,764.9	TD @ 18789.0' MD - Cannon BS3 State Com PBHL

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
10,750.8	10,750.8	0.0	0.0	KOP, Begin 12"/100' Build
11,507.5	11,228.3	484.0	11.3	Landing Point
18,789.0	11,126.6	7,762.8	181.5	TD @ 18789.0' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (usft)	+E/-W (usft)	Start TVD (usft)
TD	No Target (Freehand)	1.34	Slot	0.0	0.0	0.0

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.0	18,789.0	Plan #1	MWD

Plan Report for Cannon BS3 State Com 1H - Plan #1

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,000.0	1,000.0	13 3/8"	13-3/8	17-1/2

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,875.0	1,875.0	-1,700.10	Rustler			
2,075.0	2,075.0	-1,500.10	Top of Salt			
3,925.0	3,925.0	349.90	Base of Salt			
5,775.0	5,775.0	2,199.90	Delaware			
8,435.0	8,435.0	4,859.90	Bone Spring			
8,575.0	8,575.0	4,999.90	Avalon			
9,125.0	9,125.0	5,549.90	1st Bone Spring			
9,600.0	9,600.0	6,024.90	2nd Bone Spring			
11,013.0	11,000.0	7,424.90	3rd Bone Spring			

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Cannon BS3 State Com PBHL ()	0.00	0.00	11,126.6	7,762.8	181.5	507,055.90	788,418.77	32° 23' 25.972 N	103° 23' 56.292 W
- plan hits target center									
- Point									

Directional Difficulty Index

Average Dogleg over Survey:	0.48 °/100usft	Maximum Dogleg over Survey:	12.00 °/100usft at 11,507.5 usft
Net Tortosity applicable to Plans:	0.48 °/100usft	Directional Difficulty Index:	6.371

Audit Info

North Reference Sheet for Cannon B Pad - Cannon BS3 State Com 1H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GE 3550.1 + 25 KB @ 3575.1usft (25' KB). Northing and Easting are relative to Cannon BS3 State Com 1H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 20' 0.000 W", Longitude Origin: 0° 0' 0.000 E", Latitude Origin: 0° 0' 0.000 N"

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 1.00000424

Grid Coordinates of Well: 499,293.13 usft N, 788,237.23 usft E

Geographical Coordinates of Well: 32° 22' 09.18" N, 103° 23' 59.20" W

Grid Convergence at Surface is: 0.50°

Based upon Minimum Curvature type calculations, at a Measured Depth of 18,788.98usft
the Bottom Hole Displacement is 7,764.89usft in the Direction of 1.34° (Grid).

Magnetic Convergence at surface is: -6.41° (21 September 2017, , BGGM2017)

