

One Energy Partners

WELL DETAILS: Parade WCB State Com 1H

GE 3257.3 + 25 @ 3282.3usft (25' KB)
Ground Level: 3257.3

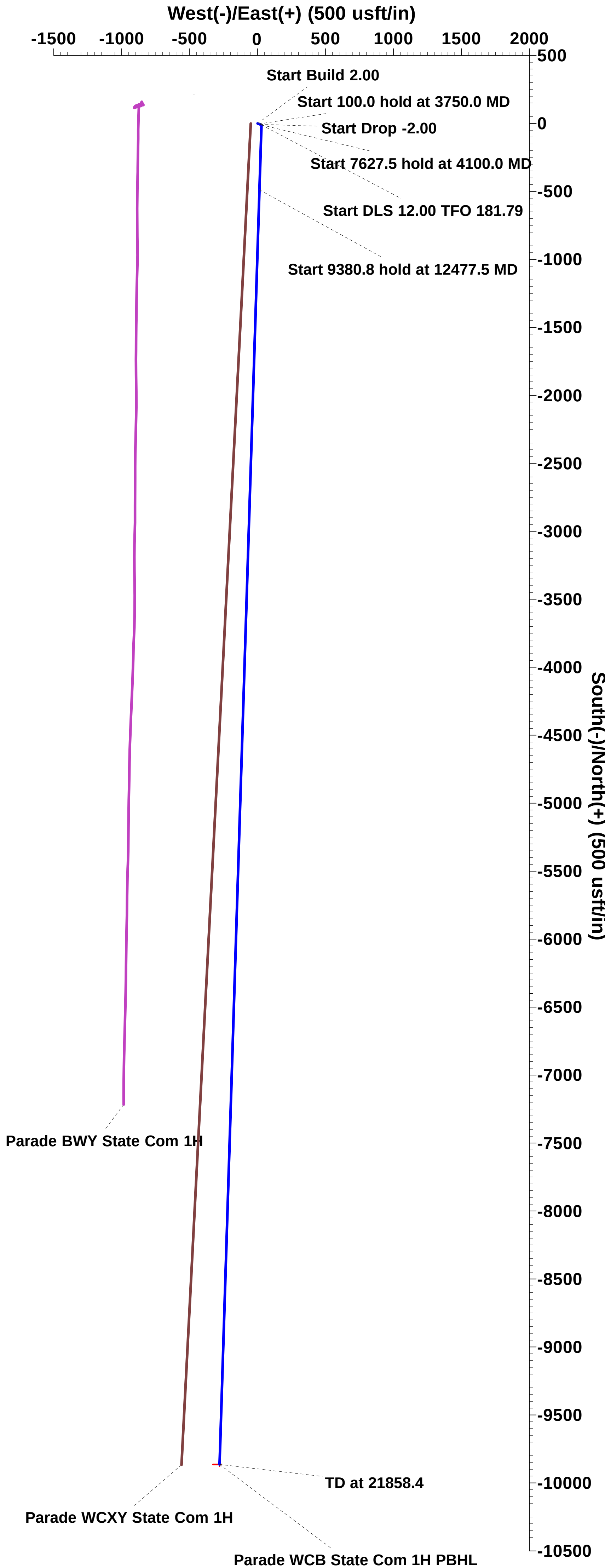
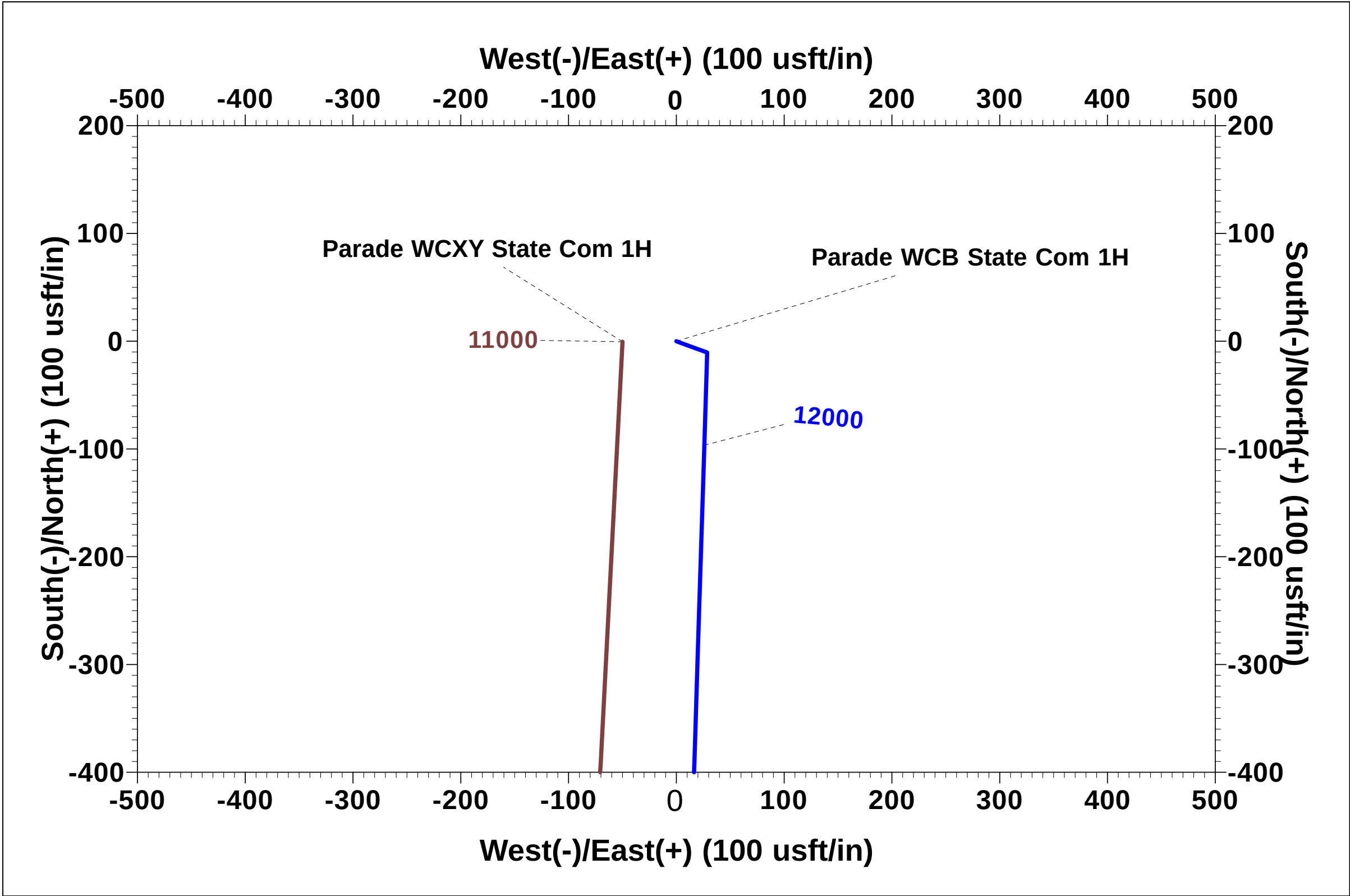
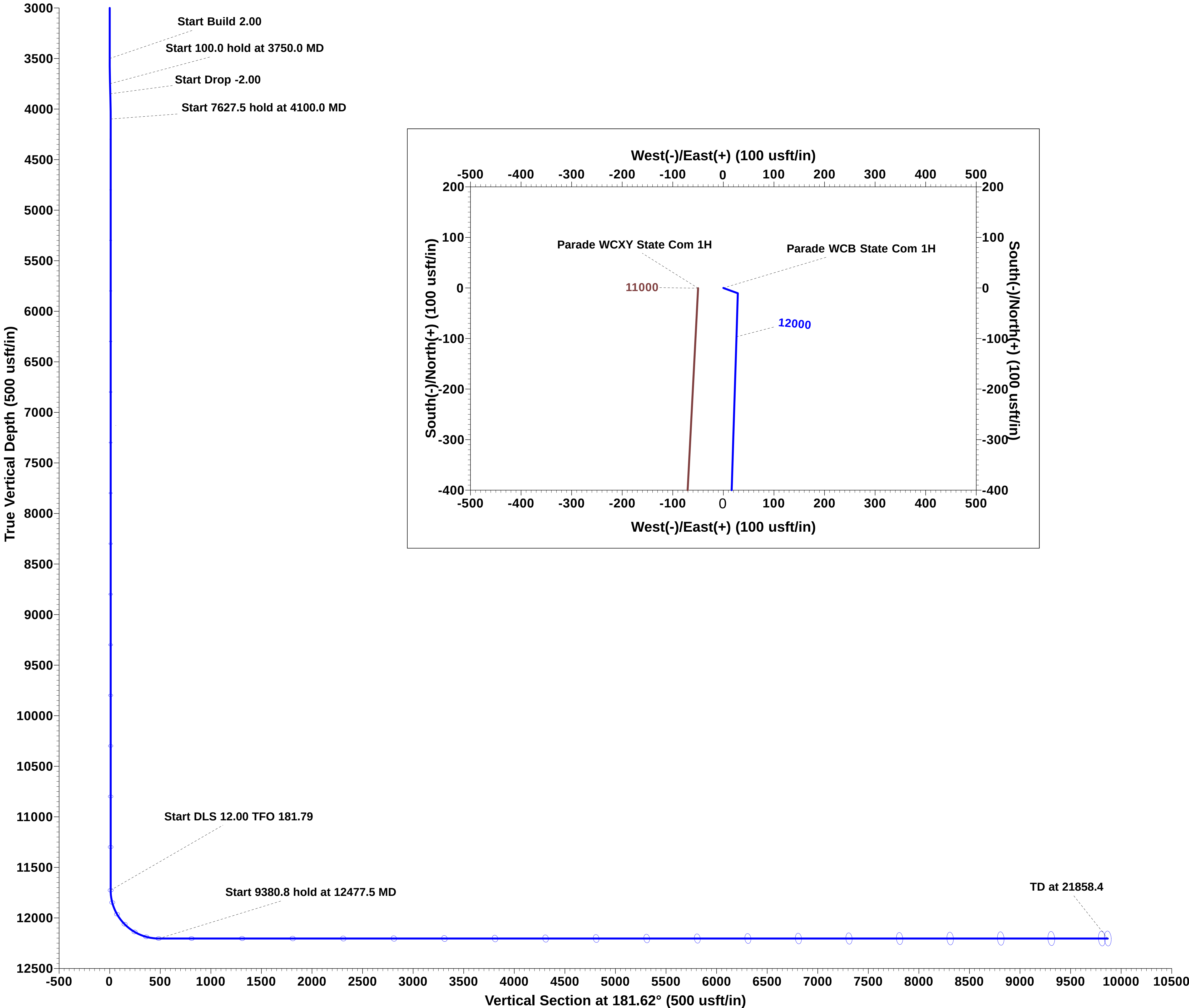
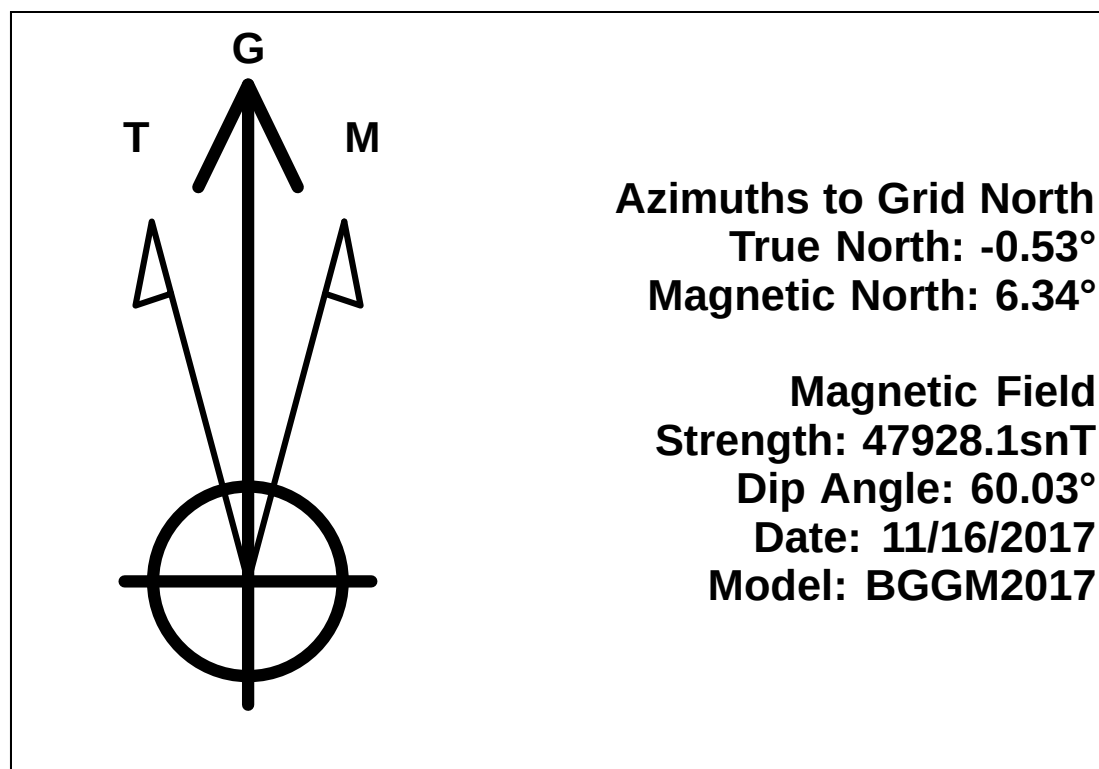
		Northing	Easting	Latitude	Longitude
0.0	0.0	425420.10	809365.18	32° 9' 56.327 N	103° 20' 0.905 W

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	3500.0	0.00	0.00	3500.0	0.0	0.0	0.00	0.0	
3	3750.0	5.00	110.00	3749.7	-3.7	10.2	2.00	3.4	
4	3850.0	5.00	110.00	3849.3	-6.7	18.4	0.00	6.2	
5	4100.0	0.00	0.00	4099.0	-10.4	28.7	2.00	9.6	
6	11727.5	0.00	0.00	11726.5	-10.4	28.7	0.00	9.6	
7	12477.5	90.00	181.79	12204.0	-487.7	13.7	12.00	487.1	
8	21858.4	90.00	181.79	12204.0	-9863.9	-279.7	0.00	9867.9	

Lea County, NM (NAD 27)
Parade Pad
Parade WCB State Com 1H
Wellbore #1
Plan #1
25' KB



25' KB

One Energy Partners

Lea County, NM (NAD 27) Parade Pad

API#

Parade WCB State Com 1H

Wellbore #1

Plan: Plan #1

Please review plan for Magnetic Toolface Switchover.

Highlighted inclination-tangent sections are between 4 and 6°.

Sperry Drilling Services

Combo Report

16 November, 2017

Well Coordinates: 32° 09' 56.33" N
103° 20' 00.90" W

NAD 1927 (NADCON CONUS)
New Mexico East 3001
425,420.10 N
809,365.18 E

Ground Level: 3,257.30 usft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well Parade WCB State Com 1H

GE 3257.3 + 25 @ 3282.3usft (25' KB)

N

Grid

API - US Survey Feet

Version: 5000.1 Build: 81D

Report Version: Midcon Combo v1.11

HALLIBURTON

Plan Report for Parade WCB State Com 1H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
0.0	0.00	0.00	-3,282.3	0.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	Parade WCB State Com 1H PBHL
100.0	0.00	0.00	-3,182.3	100.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
200.0	0.00	0.00	-3,082.3	200.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
300.0	0.00	0.00	-2,982.3	300.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
400.0	0.00	0.00	-2,882.3	400.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
500.0	0.00	0.00	-2,782.3	500.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
600.0	0.00	0.00	-2,682.3	600.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
700.0	0.00	0.00	-2,582.3	700.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
734.0	0.00	0.00	-2,548.3	734.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	Rustler
800.0	0.00	0.00	-2,482.3	800.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
900.0	0.00	0.00	-2,382.3	900.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,000.0	0.00	0.00	-2,282.3	1,000.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,100.0	0.00	0.00	-2,182.3	1,100.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,200.0	0.00	0.00	-2,082.3	1,200.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,204.0	0.00	0.00	-2,078.3	1,204.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	Top of Salt
1,300.0	0.00	0.00	-1,982.3	1,300.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,400.0	0.00	0.00	-1,882.3	1,400.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,500.0	0.00	0.00	-1,782.3	1,500.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,600.0	0.00	0.00	-1,682.3	1,600.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,700.0	0.00	0.00	-1,582.3	1,700.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,800.0	0.00	0.00	-1,482.3	1,800.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
1,900.0	0.00	0.00	-1,382.3	1,900.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,000.0	0.00	0.00	-1,282.3	2,000.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,100.0	0.00	0.00	-1,182.3	2,100.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,200.0	0.00	0.00	-1,082.3	2,200.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,300.0	0.00	0.00	-982.3	2,300.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,400.0	0.00	0.00	-882.3	2,400.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,500.0	0.00	0.00	-782.3	2,500.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,600.0	0.00	0.00	-682.3	2,600.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,700.0	0.00	0.00	-582.3	2,700.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,800.0	0.00	0.00	-482.3	2,800.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
2,900.0	0.00	0.00	-382.3	2,900.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
3,000.0	0.00	0.00	-282.3	3,000.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
3,100.0	0.00	0.00	-182.3	3,100.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
3,200.0	0.00	0.00	-82.3	3,200.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
3,300.0	0.00	0.00	17.7	3,300.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
3,400.0	0.00	0.00	117.7	3,400.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
3,500.0	0.00	0.00	217.7	3,500.0	0.00 N	0.00 E	425,420.10	809,365.18	0.00	0.0	
3,600.0	2.00	110.00	317.7	3,600.0	0.60 S	1.64 E	425,419.50	809,366.82	2.00	0.6	
3,700.0	4.00	110.00	417.5	3,699.8	2.39 S	6.56 E	425,417.71	809,371.74	2.00	2.2	
3,750.0	5.00	110.00	467.4	3,749.7	3.73 S	10.24 E	425,416.37	809,375.42	2.00	3.4	

Plan Report for Parade WCB 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)			
3,800.0	5.00	110.00	517.2	3,799.5	5.22 S	14.34 E	425,414.88	809,379.52	0.00	4.8	
3,850.0	5.00	110.00	567.0	3,849.3	6.71 S	18.43 E	425,413.39	809,383.61	0.00	6.2	
3,900.0	4.00	110.00	616.8	3,899.1	8.05 S	22.12 E	425,412.05	809,387.30	2.00	7.4	
4,000.0	2.00	110.00	716.7	3,999.0	9.84 S	27.04 E	425,410.26	809,392.22	2.00	9.1	
4,100.0	0.00	0.00	816.7	4,099.0	10.44 S	28.68 E	425,409.66	809,393.86	2.00	9.6	
4,200.0	0.00	0.00	916.7	4,199.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
4,300.0	0.00	0.00	1,016.7	4,299.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
4,400.0	0.00	0.00	1,116.7	4,399.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
4,500.0	0.00	0.00	1,216.7	4,499.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
4,527.0	0.00	0.00	1,243.7	4,526.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	Base of Salt
4,600.0	0.00	0.00	1,316.7	4,599.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
4,700.0	0.00	0.00	1,416.7	4,699.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
4,800.0	0.00	0.00	1,516.7	4,799.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
4,900.0	0.00	0.00	1,616.7	4,899.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,000.0	0.00	0.00	1,716.7	4,999.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,100.0	0.00	0.00	1,816.7	5,099.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,200.0	0.00	0.00	1,916.7	5,199.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,285.0	0.00	0.00	2,001.7	5,284.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	Delaware
5,300.0	0.00	0.00	2,016.7	5,299.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,400.0	0.00	0.00	2,116.7	5,399.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,500.0	0.00	0.00	2,216.7	5,499.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,600.0	0.00	0.00	2,316.7	5,599.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,700.0	0.00	0.00	2,416.7	5,699.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,800.0	0.00	0.00	2,516.7	5,799.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
5,900.0	0.00	0.00	2,616.7	5,899.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,000.0	0.00	0.00	2,716.7	5,999.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,100.0	0.00	0.00	2,816.7	6,099.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,200.0	0.00	0.00	2,916.7	6,199.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,300.0	0.00	0.00	3,016.7	6,299.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,400.0	0.00	0.00	3,116.7	6,399.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,500.0	0.00	0.00	3,216.7	6,499.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,600.0	0.00	0.00	3,316.7	6,599.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,700.0	0.00	0.00	3,416.7	6,699.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,800.0	0.00	0.00	3,516.7	6,799.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
6,900.0	0.00	0.00	3,616.7	6,899.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,000.0	0.00	0.00	3,716.7	6,999.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,100.0	0.00	0.00	3,816.7	7,099.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,200.0	0.00	0.00	3,916.7	7,199.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,300.0	0.00	0.00	4,016.7	7,299.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,400.0	0.00	0.00	4,116.7	7,399.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,500.0	0.00	0.00	4,216.7	7,499.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	

Plan Report for Parade WCB 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)			
7,600.0	0.00	0.00	4,316.7	7,599.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,700.0	0.00	0.00	4,416.7	7,699.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,800.0	0.00	0.00	4,516.7	7,799.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
7,900.0	0.00	0.00	4,616.7	7,899.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,000.0	0.00	0.00	4,716.7	7,999.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,100.0	0.00	0.00	4,816.7	8,099.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,200.0	0.00	0.00	4,916.7	8,199.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,300.0	0.00	0.00	5,016.7	8,299.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,400.0	0.00	0.00	5,116.7	8,399.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,500.0	0.00	0.00	5,216.7	8,499.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,600.0	0.00	0.00	5,316.7	8,599.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,700.0	0.00	0.00	5,416.7	8,699.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,800.0	0.00	0.00	5,516.7	8,799.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
8,825.0	0.00	0.00	5,541.7	8,824.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	Bone Spring
8,889.0	0.00	0.00	5,605.7	8,888.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	Avalon
8,900.0	0.00	0.00	5,616.7	8,899.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,000.0	0.00	0.00	5,716.7	8,999.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,100.0	0.00	0.00	5,816.7	9,099.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,200.0	0.00	0.00	5,916.7	9,199.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,300.0	0.00	0.00	6,016.7	9,299.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,400.0	0.00	0.00	6,116.7	9,399.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,500.0	0.00	0.00	6,216.7	9,499.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,600.0	0.00	0.00	6,316.7	9,599.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,700.0	0.00	0.00	6,416.7	9,699.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,800.0	0.00	0.00	6,516.7	9,799.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
9,900.0	0.00	0.00	6,616.7	9,899.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,000.0	0.00	0.00	6,716.7	9,999.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,028.0	0.00	0.00	6,744.7	10,027.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	1st Bone Spring
10,100.0	0.00	0.00	6,816.7	10,099.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,200.0	0.00	0.00	6,916.7	10,199.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,300.0	0.00	0.00	7,016.7	10,299.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,400.0	0.00	0.00	7,116.7	10,399.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,500.0	0.00	0.00	7,216.7	10,499.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,600.0	0.00	0.00	7,316.7	10,599.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,607.0	0.00	0.00	7,323.7	10,606.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	2nd Bone Spring
10,700.0	0.00	0.00	7,416.7	10,699.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,800.0	0.00	0.00	7,516.7	10,799.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
10,900.0	0.00	0.00	7,616.7	10,899.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,000.0	0.00	0.00	7,716.7	10,999.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,100.0	0.00	0.00	7,816.7	11,099.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,200.0	0.00	0.00	7,916.7	11,199.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	

Plan Report for Parade WCB 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)			
11,300.0	0.00	0.00	8,016.7	11,299.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,400.0	0.00	0.00	8,116.7	11,399.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,500.0	0.00	0.00	8,216.7	11,499.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,600.0	0.00	0.00	8,316.7	11,599.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,700.0	0.00	0.00	8,416.7	11,699.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,706.0	0.00	0.00	8,422.7	11,705.0	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	3rd Bone Spring
11,727.5	0.00	0.00	8,444.2	11,726.5	10.44 S	28.68 E	425,409.66	809,393.86	0.00	9.6	
11,800.0	8.70	181.79	8,516.4	11,798.7	15.93 S	28.51 E	425,404.17	809,393.69	12.00	15.1	
11,900.0	20.70	181.79	8,613.0	11,895.3	41.24 S	27.71 E	425,378.86	809,392.89	12.00	40.4	
12,000.0	32.70	181.79	8,702.1	11,984.4	86.07 S	26.31 E	425,334.03	809,391.49	12.00	85.3	
12,009.0	33.78	181.79	8,709.7	11,992.0	91.02 S	26.16 E	425,329.08	809,391.34	12.00	90.2	Wolfcamp
12,100.0	44.70	181.79	8,780.0	12,062.3	148.44 S	24.36 E	425,271.66	809,389.54	12.00	147.7	
12,162.9	52.24	181.79	8,821.7	12,104.0	195.47 S	22.89 E	425,224.63	809,388.07	12.00	194.7	Wolfcamp B
12,200.0	56.70	181.79	8,843.3	12,125.6	225.65 S	21.94 E	425,194.45	809,387.12	12.00	224.9	
12,300.0	68.70	181.79	8,889.0	12,171.3	314.30 S	19.17 E	425,105.80	809,384.35	12.00	313.6	
12,400.0	80.70	181.79	8,915.4	12,197.7	410.53 S	16.16 E	425,009.57	809,381.34	12.00	409.9	
12,477.5	90.00	181.79	8,921.7	12,204.0	487.67 S	13.74 E	424,932.43	809,378.92	12.00	487.1	
12,500.0	90.00	181.79	8,921.7	12,204.0	510.14 S	13.04 E	424,909.96	809,378.22	0.00	509.6	
12,600.0	90.00	181.79	8,921.7	12,204.0	610.09 S	9.91 E	424,810.01	809,375.09	0.00	609.6	
12,700.0	90.00	181.79	8,921.7	12,204.0	710.05 S	6.78 E	424,710.05	809,371.96	0.00	709.6	
12,800.0	90.00	181.79	8,921.7	12,204.0	810.00 S	3.65 E	424,610.10	809,368.83	0.00	809.6	
12,900.0	90.00	181.79	8,921.7	12,204.0	909.95 S	0.53 E	424,510.15	809,365.71	0.00	909.6	
13,000.0	90.00	181.79	8,921.7	12,204.0	1,009.90 S	2.60 W	424,410.20	809,362.58	0.00	1,009.6	
13,100.0	90.00	181.79	8,921.7	12,204.0	1,109.85 S	5.73 W	424,310.25	809,359.45	0.00	1,109.6	
13,200.0	90.00	181.79	8,921.7	12,204.0	1,209.80 S	8.86 W	424,210.30	809,356.32	0.00	1,209.6	
13,300.0	90.00	181.79	8,921.7	12,204.0	1,309.75 S	11.99 W	424,110.35	809,353.19	0.00	1,309.6	
13,400.0	90.00	181.79	8,921.7	12,204.0	1,409.70 S	15.11 W	424,010.40	809,350.07	0.00	1,409.6	
13,500.0	90.00	181.79	8,921.7	12,204.0	1,509.65 S	18.24 W	423,910.45	809,346.94	0.00	1,509.6	
13,600.0	90.00	181.79	8,921.7	12,204.0	1,609.60 S	21.37 W	423,810.50	809,343.81	0.00	1,609.6	
13,700.0	90.00	181.79	8,921.7	12,204.0	1,709.56 S	24.50 W	423,710.54	809,340.68	0.00	1,709.6	
13,800.0	90.00	181.79	8,921.7	12,204.0	1,809.51 S	27.63 W	423,610.59	809,337.55	0.00	1,809.6	
13,900.0	90.00	181.79	8,921.7	12,204.0	1,909.46 S	30.75 W	423,510.64	809,334.43	0.00	1,909.6	
14,000.0	90.00	181.79	8,921.7	12,204.0	2,009.41 S	33.88 W	423,410.69	809,331.30	0.00	2,009.6	
14,100.0	90.00	181.79	8,921.7	12,204.0	2,109.36 S	37.01 W	423,310.74	809,328.17	0.00	2,109.6	
14,200.0	90.00	181.79	8,921.7	12,204.0	2,209.31 S	40.14 W	423,210.79	809,325.04	0.00	2,209.6	
14,300.0	90.00	181.79	8,921.7	12,204.0	2,309.26 S	43.27 W	423,110.84	809,321.91	0.00	2,309.6	
14,400.0	90.00	181.79	8,921.7	12,204.0	2,409.21 S	46.40 W	423,010.89	809,318.78	0.00	2,409.6	
14,500.0	90.00	181.79	8,921.7	12,204.0	2,509.16 S	49.52 W	422,910.94	809,315.66	0.00	2,509.6	
14,600.0	90.00	181.79	8,921.7	12,204.0	2,609.12 S	52.65 W	422,810.98	809,312.53	0.00	2,609.6	
14,700.0	90.00	181.79	8,921.7	12,204.0	2,709.07 S	55.78 W	422,711.03	809,309.40	0.00	2,709.6	
14,800.0	90.00	181.79	8,921.7	12,204.0	2,809.02 S	58.91 W	422,611.08	809,306.27	0.00	2,809.6	

Plan Report for Parade WCB 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)			
14,900.0	90.00	181.79	8,921.7	12,204.0	2,908.97 S	62.04 W	422,511.13	809,303.14	0.00	2,909.6	
15,000.0	90.00	181.79	8,921.7	12,204.0	3,008.92 S	65.16 W	422,411.18	809,300.02	0.00	3,009.6	
15,100.0	90.00	181.79	8,921.7	12,204.0	3,108.87 S	68.29 W	422,311.23	809,296.89	0.00	3,109.6	
15,200.0	90.00	181.79	8,921.7	12,204.0	3,208.82 S	71.42 W	422,211.28	809,293.76	0.00	3,209.6	
15,300.0	90.00	181.79	8,921.7	12,204.0	3,308.77 S	74.55 W	422,111.33	809,290.63	0.00	3,309.6	
15,400.0	90.00	181.79	8,921.7	12,204.0	3,408.72 S	77.68 W	422,011.38	809,287.50	0.00	3,409.6	
15,500.0	90.00	181.79	8,921.7	12,204.0	3,508.68 S	80.80 W	421,911.42	809,284.38	0.00	3,509.6	
15,600.0	90.00	181.79	8,921.7	12,204.0	3,608.63 S	83.93 W	421,811.47	809,281.25	0.00	3,609.6	
15,700.0	90.00	181.79	8,921.7	12,204.0	3,708.58 S	87.06 W	421,711.52	809,278.12	0.00	3,709.6	
15,800.0	90.00	181.79	8,921.7	12,204.0	3,808.53 S	90.19 W	421,611.57	809,274.99	0.00	3,809.6	
15,900.0	90.00	181.79	8,921.7	12,204.0	3,908.48 S	93.32 W	421,511.62	809,271.86	0.00	3,909.6	
16,000.0	90.00	181.79	8,921.7	12,204.0	4,008.43 S	96.44 W	421,411.67	809,268.74	0.00	4,009.6	
16,100.0	90.00	181.79	8,921.7	12,204.0	4,108.38 S	99.57 W	421,311.72	809,265.61	0.00	4,109.6	
16,200.0	90.00	181.79	8,921.7	12,204.0	4,208.33 S	102.70 W	421,211.77	809,262.48	0.00	4,209.6	
16,300.0	90.00	181.79	8,921.7	12,204.0	4,308.28 S	105.83 W	421,111.82	809,259.35	0.00	4,309.6	
16,400.0	90.00	181.79	8,921.7	12,204.0	4,408.23 S	108.96 W	421,011.87	809,256.22	0.00	4,409.6	
16,500.0	90.00	181.79	8,921.7	12,204.0	4,508.19 S	112.09 W	420,911.91	809,253.09	0.00	4,509.6	
16,600.0	90.00	181.79	8,921.7	12,204.0	4,608.14 S	115.21 W	420,811.96	809,249.97	0.00	4,609.6	
16,700.0	90.00	181.79	8,921.7	12,204.0	4,708.09 S	118.34 W	420,712.01	809,246.84	0.00	4,709.6	
16,800.0	90.00	181.79	8,921.7	12,204.0	4,808.04 S	121.47 W	420,612.06	809,243.71	0.00	4,809.6	
16,900.0	90.00	181.79	8,921.7	12,204.0	4,907.99 S	124.60 W	420,512.11	809,240.58	0.00	4,909.5	
17,000.0	90.00	181.79	8,921.7	12,204.0	5,007.94 S	127.73 W	420,412.16	809,237.45	0.00	5,009.5	
17,100.0	90.00	181.79	8,921.7	12,204.0	5,107.89 S	130.85 W	420,312.21	809,234.33	0.00	5,109.5	
17,200.0	90.00	181.79	8,921.7	12,204.0	5,207.84 S	133.98 W	420,212.26	809,231.20	0.00	5,209.5	
17,300.0	90.00	181.79	8,921.7	12,204.0	5,307.79 S	137.11 W	420,112.31	809,228.07	0.00	5,309.5	
17,400.0	90.00	181.79	8,921.7	12,204.0	5,407.75 S	140.24 W	420,012.35	809,224.94	0.00	5,409.5	
17,500.0	90.00	181.79	8,921.7	12,204.0	5,507.70 S	143.37 W	419,912.40	809,221.81	0.00	5,509.5	
17,600.0	90.00	181.79	8,921.7	12,204.0	5,607.65 S	146.49 W	419,812.45	809,218.69	0.00	5,609.5	
17,700.0	90.00	181.79	8,921.7	12,204.0	5,707.60 S	149.62 W	419,712.50	809,215.56	0.00	5,709.5	
17,800.0	90.00	181.79	8,921.7	12,204.0	5,807.55 S	152.75 W	419,612.55	809,212.43	0.00	5,809.5	
17,900.0	90.00	181.79	8,921.7	12,204.0	5,907.50 S	155.88 W	419,512.60	809,209.30	0.00	5,909.5	
18,000.0	90.00	181.79	8,921.7	12,204.0	6,007.45 S	159.01 W	419,412.65	809,206.17	0.00	6,009.5	
18,100.0	90.00	181.79	8,921.7	12,204.0	6,107.40 S	162.13 W	419,312.70	809,203.05	0.00	6,109.5	
18,200.0	90.00	181.79	8,921.7	12,204.0	6,207.35 S	165.26 W	419,212.75	809,199.92	0.00	6,209.5	
18,300.0	90.00	181.79	8,921.7	12,204.0	6,307.30 S	168.39 W	419,112.80	809,196.79	0.00	6,309.5	
18,400.0	90.00	181.79	8,921.7	12,204.0	6,407.26 S	171.52 W	419,012.84	809,193.66	0.00	6,409.5	
18,500.0	90.00	181.79	8,921.7	12,204.0	6,507.21 S	174.65 W	418,912.89	809,190.53	0.00	6,509.5	
18,600.0	90.00	181.79	8,921.7	12,204.0	6,607.16 S	177.78 W	418,812.94	809,187.40	0.00	6,609.5	
18,700.0	90.00	181.79	8,921.7	12,204.0	6,707.11 S	180.90 W	418,712.99	809,184.28	0.00	6,709.5	
18,800.0	90.00	181.79	8,921.7	12,204.0	6,807.06 S	184.03 W	418,613.04	809,181.15	0.00	6,809.5	
18,900.0	90.00	181.79	8,921.7	12,204.0	6,907.01 S	187.16 W	418,513.09	809,178.02	0.00	6,909.5	

Plan Report for Parade WCB 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
19,000.0	90.00	181.79	8,921.7	12,204.0	7,006.96 S	190.29 W	418,413.14	809,174.89	0.00	7,009.5	
19,100.0	90.00	181.79	8,921.7	12,204.0	7,106.91 S	193.42 W	418,313.19	809,171.76	0.00	7,109.5	
19,200.0	90.00	181.79	8,921.7	12,204.0	7,206.86 S	196.54 W	418,213.24	809,168.64	0.00	7,209.5	
19,300.0	90.00	181.79	8,921.7	12,204.0	7,306.82 S	199.67 W	418,113.28	809,165.51	0.00	7,309.5	
19,400.0	90.00	181.79	8,921.7	12,204.0	7,406.77 S	202.80 W	418,013.33	809,162.38	0.00	7,409.5	
19,500.0	90.00	181.79	8,921.7	12,204.0	7,506.72 S	205.93 W	417,913.38	809,159.25	0.00	7,509.5	
19,600.0	90.00	181.79	8,921.7	12,204.0	7,606.67 S	209.06 W	417,813.43	809,156.12	0.00	7,609.5	
19,700.0	90.00	181.79	8,921.7	12,204.0	7,706.62 S	212.18 W	417,713.48	809,153.00	0.00	7,709.5	
19,800.0	90.00	181.79	8,921.7	12,204.0	7,806.57 S	215.31 W	417,613.53	809,149.87	0.00	7,809.5	
19,900.0	90.00	181.79	8,921.7	12,204.0	7,906.52 S	218.44 W	417,513.58	809,146.74	0.00	7,909.5	
20,000.0	90.00	181.79	8,921.7	12,204.0	8,006.47 S	221.57 W	417,413.63	809,143.61	0.00	8,009.5	
20,100.0	90.00	181.79	8,921.7	12,204.0	8,106.42 S	224.70 W	417,313.68	809,140.48	0.00	8,109.5	
20,200.0	90.00	181.79	8,921.7	12,204.0	8,206.37 S	227.82 W	417,213.73	809,137.36	0.00	8,209.5	
20,300.0	90.00	181.79	8,921.7	12,204.0	8,306.33 S	230.95 W	417,113.77	809,134.23	0.00	8,309.5	
20,400.0	90.00	181.79	8,921.7	12,204.0	8,406.28 S	234.08 W	417,013.82	809,131.10	0.00	8,409.5	
20,500.0	90.00	181.79	8,921.7	12,204.0	8,506.23 S	237.21 W	416,913.87	809,127.97	0.00	8,509.5	
20,600.0	90.00	181.79	8,921.7	12,204.0	8,606.18 S	240.34 W	416,813.92	809,124.84	0.00	8,609.5	
20,700.0	90.00	181.79	8,921.7	12,204.0	8,706.13 S	243.47 W	416,713.97	809,121.71	0.00	8,709.5	
20,800.0	90.00	181.79	8,921.7	12,204.0	8,806.08 S	246.59 W	416,614.02	809,118.59	0.00	8,809.5	
20,900.0	90.00	181.79	8,921.7	12,204.0	8,906.03 S	249.72 W	416,514.07	809,115.46	0.00	8,909.5	
21,000.0	90.00	181.79	8,921.7	12,204.0	9,005.98 S	252.85 W	416,414.12	809,112.33	0.00	9,009.5	
21,100.0	90.00	181.79	8,921.7	12,204.0	9,105.93 S	255.98 W	416,314.17	809,109.20	0.00	9,109.5	
21,200.0	90.00	181.79	8,921.7	12,204.0	9,205.89 S	259.11 W	416,214.21	809,106.07	0.00	9,209.5	
21,300.0	90.00	181.79	8,921.7	12,204.0	9,305.84 S	262.23 W	416,114.26	809,102.95	0.00	9,309.5	
21,400.0	90.00	181.79	8,921.7	12,204.0	9,405.79 S	265.36 W	416,014.31	809,099.82	0.00	9,409.5	
21,500.0	90.00	181.79	8,921.7	12,204.0	9,505.74 S	268.49 W	415,914.36	809,096.69	0.00	9,509.5	
21,600.0	90.00	181.79	8,921.7	12,204.0	9,605.69 S	271.62 W	415,814.41	809,093.56	0.00	9,609.5	
21,700.0	90.00	181.79	8,921.7	12,204.0	9,705.64 S	274.75 W	415,714.46	809,090.43	0.00	9,709.5	
21,800.0	90.00	181.79	8,921.7	12,204.0	9,805.59 S	277.87 W	415,614.51	809,087.31	0.00	9,809.5	
21,858.4	90.00	181.79	8,921.7	12,204.0	9,863.92 S	279.70 W	415,556.18	809,085.48	0.00	9,867.9	

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (usft)	Origin +E/-W (usft)	Start TVD (usft)
TD	No Target (Freehand)	181.62	Slot	0.0	0.0	0.0

Plan Report for Parade WCB State Com 1H - Plan #1

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.0	21,858.4	Plan #1	MWD

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 (°)
734.0	734.0	-2,548.30	Rustler			
1,204.0	1,204.0	-2,078.30	Top of Salt			
4,527.0	4,526.0	1,243.70	Base of Salt			
5,285.0	5,284.0	2,001.70	Delaware			
8,825.0	8,824.0	5,541.70	Bone Spring			
8,889.0	8,888.0	5,605.70	Avalon			
10,028.0	10,027.0	6,744.70	1st Bone Spring			
10,607.0	10,606.0	7,323.70	2nd Bone Spring			
11,706.0	11,705.0	8,422.70	3rd Bone Spring			
12,009.0	11,992.0	8,709.70	Wolfcamp			
12,162.9	12,104.0	8,821.70	Wolfcamp B			

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Parade WCB State Com 1H PBHL ()									
	0.00	0.00	0.0	-9,863.9	-279.7	415,556.18	809,085.48	32° 8' 18.750 N	103° 20' 5.223 W
- plan misses target center by 9867.9usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Point									

Plan Report for Parade WCB State Com 1H - Plan #1

Directional Difficulty Index

Average Dogleg over Survey: 0.46 °/100usft

Net Tortosity applicable to Plans: 0.46 °/100usft

Maximum Dogleg over Survey: 12.00 °/100usft at 12,477.9
usft

Directional Difficulty Index: 6.556

Audit Info

North Reference Sheet for Parade Pad - Parade WCB 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 3257.3 + 25 @ 3282.3usft (25' KB). Northing and Easting are relative to Parade WCB 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: 1.00001871

Grid Coordinates of Well: 425,420.10 usft N, 809,365.18 usft E

Geographical Coordinates of Well: 32° 09' 56.33" N, 103° 20' 00.90" W

Grid Convergence at Surface is: 0.53°

Based upon Minimum Curvature type calculations, at a Measured Depth of 21,858.36usft
the Bottom Hole Displacement is 9,867.88usft in the Direction of 181.62° (Grid).

Magnetic Convergence at surface is: -6.34° (16 November 2017, , BGGM2017)

