

30-025 44388

One Energy Partners

WELL DETAILS: Uvalde B3 State Com 2H

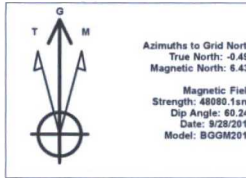
GL 3611+25ft @ 3636.0usft (KB(+25ft))
Ground Level: 3611.0

	Northing	Easting	Latitude	Longitude
0.0	0.0	510388.40	780748.20	32° 23' 59.601 N 103° 25' 25.410 W

SECTION DETAILS Plan 1

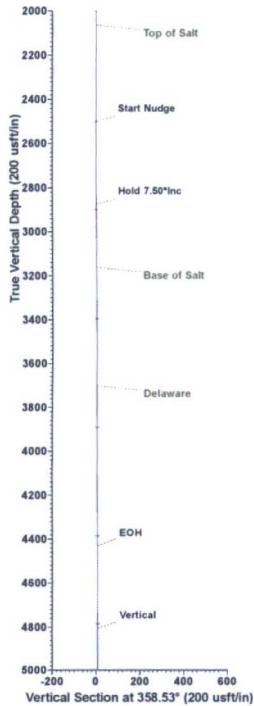
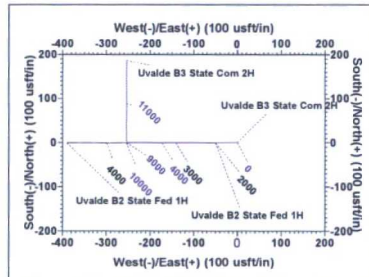
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	V Sct	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.0	Start Nudge
3	2874.8	7.50	270.00	2873.7	0.0	-24.5	2.00	0.6	Hold 7.50°Inc
4	4445.8	7.50	270.00	4431.3	0.0	-229.4	0.00	5.9	EOH
5	4820.6	0.00	0.00	4805.0	0.0	-253.9	2.00	6.5	Vertical
6	10738.1	0.00	0.00	10722.6	0.0	-253.9	0.00	6.5	KOP
7	11492.3	90.50	0.00	11200.0	481.6	-253.9	12.00	488.0	Landing Point
8	20890.5	90.50	0.00	11118.0	9879.5	-253.9	0.00	9882.8	BHL

Lea County, NM (NAD 27)
Uvalde B Pad
Uvalde B3 State Com 2H
380' FSL, 685' FWL of Sec. 13
Wellbore #1
Plan 1
KB(+25ft)
TL 11200' KBTVD@ 90.50°Inc

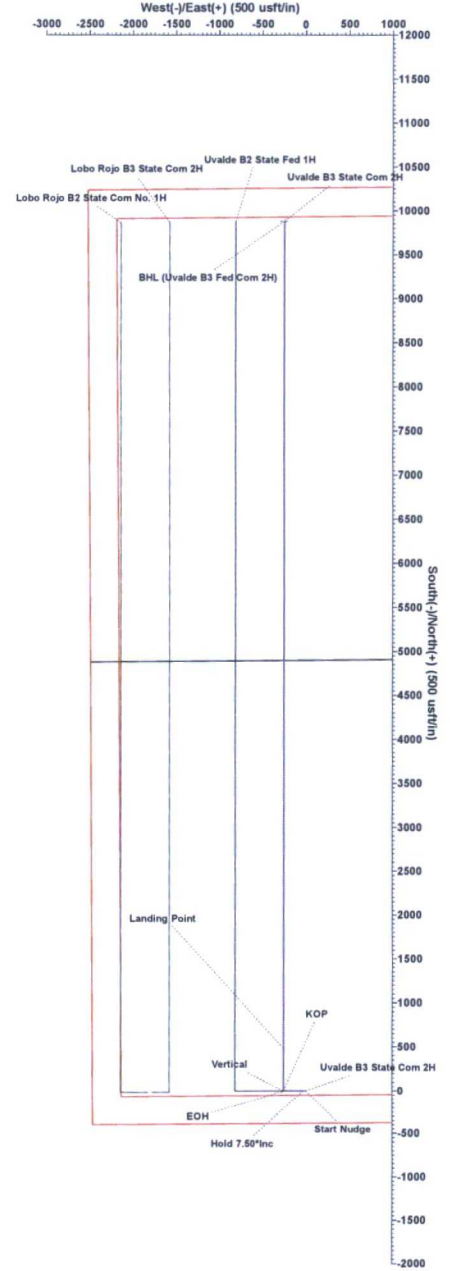
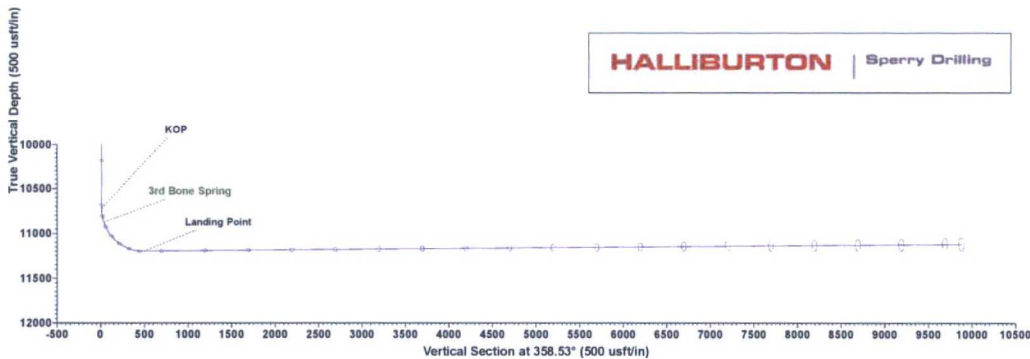


CASING DETAILS

TVD	MD	Name
900.0	900.0	13 3/8"



HALLIBURTON | Sperry Drilling



KB(+25ft)

One Energy Partners

Lea County, NM (NAD 27) Uvalde B Pad

API#

Uvalde B3 State Com 2H

380' FSL, 685' FWL of Sec. 13

Wellbore #1

Plan: Plan 1

Sperry Drilling Services

Combo Report

11 August, 2017

Well Coordinates: 32° 23' 59.60" N
103° 25' 25.41" W

NAD 1927 (NADCON CONUS)
New Mexico East 3001
510,388.40 N
780,748.20 E

Ground Level: 3,611.00 usft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well Uvalde B3 State Com 2H

GL: 3611+25ft @ 3636.0usft (KB(+25ft))

N

Grid

API - US Survey Feet

Version: 5000.1 Build: 81D

Report Version: Midcon Combo v1.11

HALLIBURTON

Plan Report for Uvalde B3 State Com 2H - 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	-3,636.0	0.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
100.0	0.00	0.00	-3,536.0	100.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
200.0	0.00	0.00	-3,436.0	200.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
300.0	0.00	0.00	-3,336.0	300.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
400.0	0.00	0.00	-3,236.0	400.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
500.0	0.00	0.00	-3,136.0	500.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
600.0	0.00	0.00	-3,036.0	600.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
700.0	0.00	0.00	-2,936.0	700.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
800.0	0.00	0.00	-2,836.0	800.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
900.0	0.00	0.00	-2,736.0	900.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,000.0	0.00	0.00	-2,636.0	1,000.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,100.0	0.00	0.00	-2,536.0	1,100.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,200.0	0.00	0.00	-2,436.0	1,200.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,300.0	0.00	0.00	-2,336.0	1,300.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,400.0	0.00	0.00	-2,236.0	1,400.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,500.0	0.00	0.00	-2,136.0	1,500.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,600.0	0.00	0.00	-2,036.0	1,600.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,700.0	0.00	0.00	-1,936.0	1,700.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	Rustler
1,800.0	0.00	0.00	-1,836.0	1,800.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
1,900.0	0.00	0.00	-1,736.0	1,900.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
2,000.0	0.00	0.00	-1,636.0	2,000.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
2,064.0	0.00	0.00	-1,572.0	2,064.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	Top of Salt
2,100.0	0.00	0.00	-1,536.0	2,100.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
2,200.0	0.00	0.00	-1,436.0	2,200.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
2,300.0	0.00	0.00	-1,336.0	2,300.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
2,400.0	0.00	0.00	-1,236.0	2,400.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	
2,500.0	0.00	0.00	-1,136.0	2,500.0	0.00 N	0.00 E	510,388.40	780,748.20	0.00	0.0	Start Nudge
2,600.0	2.00	270.00	-1,036.0	2,600.0	0.00 S	1.75 W	510,388.40	780,746.45	2.00	0.0	
2,700.0	4.00	270.00	-936.2	2,699.8	0.00 S	6.98 W	510,388.40	780,741.22	2.00	0.2	
2,800.0	6.00	270.00	-836.5	2,799.5	0.00 S	15.69 W	510,388.40	780,732.51	2.00	0.4	
2,874.8	7.50	270.00	-762.3	2,873.7	0.00 N	24.48 W	510,388.40	780,723.72	2.00	0.6	Hold 7.50°Inc
2,900.0	7.50	270.00	-737.3	2,898.7	0.00 S	27.77 W	510,388.40	780,720.43	0.00	0.7	
3,000.0	7.50	270.00	-638.1	2,997.9	0.00 S	40.82 W	510,388.40	780,707.38	0.00	1.0	
3,100.0	7.50	270.00	-539.0	3,097.0	0.00 S	53.86 W	510,388.40	780,694.34	0.00	1.4	
3,165.6	7.50	270.00	-474.0	3,162.0	0.00 S	62.41 W	510,388.40	780,685.79	0.00	1.6	Base of Salt
3,200.0	7.50	270.00	-439.8	3,196.2	0.00 S	66.91 W	510,388.40	780,681.29	0.00	1.7	
3,300.0	7.50	270.00	-340.7	3,295.3	0.00 S	79.95 W	510,388.40	780,668.25	0.00	2.1	
3,400.0	7.50	270.00	-241.6	3,394.4	0.00 S	93.00 W	510,388.40	780,655.20	0.00	2.4	
3,500.0	7.50	270.00	-142.4	3,493.6	0.00 S	106.04 W	510,388.40	780,642.16	0.00	2.7	
3,600.0	7.50	270.00	-43.3	3,592.7	0.00 S	119.09 W	510,388.40	780,629.11	0.00	3.1	
3,700.0	7.50	270.00	55.9	3,691.9	0.00 S	132.13 W	510,388.40	780,616.07	0.00	3.4	

Plan Report for Uvalde B3 State Com 2H - 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)			
3,708.2	7.50	270.00	64.0	3,700.0	0.00 S	133.20 W	510,388.40	780,615.00	0.00	3.4	Delaware
3,800.0	7.50	270.00	155.0	3,791.0	0.00 S	145.18 W	510,388.40	780,603.02	0.00	3.7	
3,900.0	7.50	270.00	254.2	3,890.2	0.00 S	158.22 W	510,388.40	780,589.98	0.00	4.1	
4,000.0	7.50	270.00	353.3	3,989.3	0.00 S	171.27 W	510,388.40	780,576.93	0.00	4.4	
4,100.0	7.50	270.00	452.5	4,088.5	0.00 S	184.31 W	510,388.40	780,563.89	0.00	4.7	
4,200.0	7.50	270.00	551.6	4,187.6	0.00 S	197.36 W	510,388.40	780,550.84	0.00	5.1	
4,300.0	7.50	270.00	650.8	4,286.8	0.00 S	210.40 W	510,388.40	780,537.80	0.00	5.4	
4,400.0	7.50	270.00	749.9	4,385.9	0.00 S	223.45 W	510,388.40	780,524.75	0.00	5.7	
4,445.8	7.50	270.00	795.3	4,431.3	0.00 N	229.42 W	510,388.40	780,518.78	0.00	5.9	EOH
4,500.0	6.41	270.00	849.1	4,485.1	0.00 S	235.98 W	510,388.40	780,512.22	2.00	6.1	
4,600.0	4.41	270.00	948.7	4,584.7	0.00 S	245.41 W	510,388.40	780,502.79	2.00	6.3	
4,700.0	2.41	270.00	1,048.5	4,684.5	0.00 S	251.36 W	510,388.40	780,496.84	2.00	6.5	
4,800.0	0.41	270.00	1,148.4	4,784.4	0.00 S	253.83 W	510,388.40	780,494.37	2.00	6.5	
4,820.6	0.00	0.00	1,169.0	4,805.0	0.00 N	253.90 W	510,388.40	780,494.30	2.00	6.5	Vertical
4,900.0	0.00	0.00	1,248.4	4,884.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,000.0	0.00	0.00	1,348.4	4,984.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,100.0	0.00	0.00	1,448.4	5,084.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,200.0	0.00	0.00	1,548.4	5,184.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,300.0	0.00	0.00	1,648.4	5,284.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,400.0	0.00	0.00	1,748.4	5,384.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,500.0	0.00	0.00	1,848.4	5,484.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,600.0	0.00	0.00	1,948.4	5,584.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,700.0	0.00	0.00	2,048.4	5,684.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,800.0	0.00	0.00	2,148.4	5,784.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
5,900.0	0.00	0.00	2,248.4	5,884.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,000.0	0.00	0.00	2,348.4	5,984.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,100.0	0.00	0.00	2,448.4	6,084.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,200.0	0.00	0.00	2,548.4	6,184.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,300.0	0.00	0.00	2,648.4	6,284.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,400.0	0.00	0.00	2,748.4	6,384.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,500.0	0.00	0.00	2,848.4	6,484.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,600.0	0.00	0.00	2,948.4	6,584.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,700.0	0.00	0.00	3,048.4	6,684.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,800.0	0.00	0.00	3,148.4	6,784.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
6,900.0	0.00	0.00	3,248.4	6,884.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,000.0	0.00	0.00	3,348.4	6,984.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,100.0	0.00	0.00	3,448.4	7,084.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,200.0	0.00	0.00	3,548.4	7,184.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,300.0	0.00	0.00	3,648.4	7,284.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,400.0	0.00	0.00	3,748.4	7,384.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,500.0	0.00	0.00	3,848.4	7,484.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	

HALLIBURTON**Plan Report for Uvalde B3 State Com 2H - 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	3,948.4	7,584.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,700.0	0.00	0.00	4,048.4	7,684.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,800.0	0.00	0.00	4,148.4	7,784.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
7,900.0	0.00	0.00	4,248.4	7,884.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,000.0	0.00	0.00	4,348.4	7,984.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,100.0	0.00	0.00	4,448.4	8,084.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,121.6	0.00	0.00	4,470.0	8,106.0	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	Bone Spring
8,150.6	0.00	0.00	4,499.0	8,135.0	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	Avalon
8,200.0	0.00	0.00	4,548.4	8,184.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,300.0	0.00	0.00	4,648.4	8,284.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,400.0	0.00	0.00	4,748.4	8,384.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,500.0	0.00	0.00	4,848.4	8,484.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,600.0	0.00	0.00	4,948.4	8,584.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,700.0	0.00	0.00	5,048.4	8,684.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,800.0	0.00	0.00	5,148.4	8,784.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
8,900.0	0.00	0.00	5,248.4	8,884.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,000.0	0.00	0.00	5,348.4	8,984.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,100.0	0.00	0.00	5,448.4	9,084.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,104.6	0.00	0.00	5,453.0	9,089.0	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	1st Bone Spring
9,200.0	0.00	0.00	5,548.4	9,184.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,300.0	0.00	0.00	5,648.4	9,284.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,400.0	0.00	0.00	5,748.4	9,384.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,500.0	0.00	0.00	5,848.4	9,484.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,527.6	0.00	0.00	5,876.0	9,512.0	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	2nd Bone Spring
9,600.0	0.00	0.00	5,948.4	9,584.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,700.0	0.00	0.00	6,048.4	9,684.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,800.0	0.00	0.00	6,148.4	9,784.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
9,900.0	0.00	0.00	6,248.4	9,884.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,000.0	0.00	0.00	6,348.4	9,984.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,100.0	0.00	0.00	6,448.4	10,084.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,200.0	0.00	0.00	6,548.4	10,184.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,300.0	0.00	0.00	6,648.4	10,284.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,400.0	0.00	0.00	6,748.4	10,384.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,500.0	0.00	0.00	6,848.4	10,484.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,600.0	0.00	0.00	6,948.4	10,584.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,700.0	0.00	0.00	7,048.4	10,684.4	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	
10,738.1	0.00	0.00	7,086.6	10,722.6	0.00 N	253.90 W	510,388.40	780,494.30	0.00	6.5	KOP
10,750.0	1.42	0.00	7,098.4	10,734.4	0.15 N	253.90 W	510,388.55	780,494.30	12.00	6.7	
10,775.0	4.42	0.00	7,123.4	10,759.4	1.42 N	253.90 W	510,389.82	780,494.30	12.00	7.9	
10,800.0	7.42	0.00	7,148.3	10,784.3	4.00 N	253.90 W	510,392.40	780,494.30	12.00	10.5	
10,825.0	10.42	0.00	7,173.0	10,809.0	7.88 N	253.90 W	510,396.28	780,494.30	12.00	14.4	

Plan Report for Uvalde B3 State Com 2H - 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)			
10,850.0	13.42	0.00	7,197.4	10,833.4	13.05 N	253.90 W	510,401.45	780,494.30	12.00	19.6	
10,875.0	16.42	0.00	7,221.6	10,857.6	19.48 N	253.90 W	510,407.88	780,494.30	12.00	26.0	
10,894.3	18.74	0.00	7,240.0	10,876.0	25.32 N	253.90 W	510,413.72	780,494.30	12.00	31.8	3rd Bone Spring
10,900.0	19.42	0.00	7,245.4	10,881.4	27.18 N	253.90 W	510,415.58	780,494.30	12.00	33.7	
10,925.0	22.42	0.00	7,268.7	10,904.7	36.10 N	253.90 W	510,424.50	780,494.30	12.00	42.6	
10,950.0	25.42	0.00	7,291.6	10,927.6	46.24 N	253.90 W	510,434.64	780,494.30	12.00	52.7	
10,975.0	28.42	0.00	7,313.8	10,949.8	57.56 N	253.90 W	510,445.96	780,494.30	12.00	64.1	
11,000.0	31.42	0.00	7,335.5	10,971.5	70.03 N	253.90 W	510,458.43	780,494.30	12.00	76.5	
11,025.0	34.42	0.00	7,356.5	10,992.5	83.62 N	253.90 W	510,472.02	780,494.30	12.00	90.1	
11,050.0	37.42	0.00	7,376.7	11,012.7	98.28 N	253.90 W	510,486.68	780,494.30	12.00	104.8	
11,075.0	40.42	0.00	7,396.2	11,032.2	113.99 N	253.90 W	510,502.39	780,494.30	12.00	120.5	
11,100.0	43.42	0.00	7,414.8	11,050.8	130.69 N	253.90 W	510,519.09	780,494.30	12.00	137.2	
11,125.0	46.42	0.00	7,432.5	11,068.5	148.34 N	253.90 W	510,536.74	780,494.30	12.00	154.8	
11,150.0	49.42	0.00	7,449.2	11,085.2	166.90 N	253.90 W	510,555.30	780,494.30	12.00	173.4	
11,175.0	52.42	0.00	7,465.0	11,101.0	186.30 N	253.90 W	510,574.70	780,494.30	12.00	192.8	
11,200.0	55.42	0.00	7,479.7	11,115.7	206.51 N	253.90 W	510,594.91	780,494.30	12.00	213.0	
11,225.0	58.42	0.00	7,493.3	11,129.3	227.45 N	253.90 W	510,615.85	780,494.30	12.00	233.9	
11,250.0	61.42	0.00	7,505.9	11,141.9	249.09 N	253.90 W	510,637.49	780,494.30	12.00	255.5	
11,275.0	64.42	0.00	7,517.2	11,153.2	271.34 N	253.90 W	510,659.74	780,494.30	12.00	277.8	
11,300.0	67.42	0.00	7,527.4	11,163.4	294.17 N	253.90 W	510,682.57	780,494.30	12.00	300.6	
11,325.0	70.42	0.00	7,536.4	11,172.4	317.49 N	253.90 W	510,705.89	780,494.30	12.00	323.9	
11,350.0	73.42	0.00	7,544.2	11,180.2	341.26 N	253.90 W	510,729.66	780,494.30	12.00	347.7	
11,375.0	76.42	0.00	7,550.7	11,186.7	365.39 N	253.90 W	510,753.79	780,494.30	12.00	371.8	
11,400.0	79.42	0.00	7,555.9	11,191.9	389.84 N	253.90 W	510,778.24	780,494.30	12.00	396.2	
11,425.0	82.42	0.00	7,559.9	11,195.9	414.52 N	253.90 W	510,802.92	780,494.30	12.00	420.9	
11,450.0	85.42	0.00	7,562.5	11,198.5	439.38 N	253.90 W	510,827.78	780,494.30	12.00	445.8	
11,475.0	88.42	0.00	7,563.9	11,199.9	464.34 N	253.90 W	510,852.74	780,494.30	12.00	470.7	
11,482.6	89.34	0.00	7,564.0	11,200.0	471.93 N	253.90 W	510,860.33	780,494.30	12.00	478.3	Target (0 KBTVD @ 90.5°) Landing Point
11,492.3	90.50	0.00	7,564.0	11,200.0	481.63 N	253.90 W	510,870.03	780,494.30	12.00	488.0	
11,500.0	90.50	0.00	7,563.9	11,199.9	489.34 N	253.90 W	510,877.74	780,494.30	0.00	495.7	
11,600.0	90.50	0.00	7,563.1	11,199.1	589.33 N	253.90 W	510,977.73	780,494.30	0.00	595.7	
11,700.0	90.50	0.00	7,562.2	11,198.2	689.33 N	253.90 W	511,077.73	780,494.30	0.00	695.6	
11,800.0	90.50	0.00	7,561.3	11,197.3	789.32 N	253.90 W	511,177.72	780,494.30	0.00	795.6	
11,900.0	90.50	0.00	7,560.5	11,196.5	889.32 N	253.90 W	511,277.72	780,494.30	0.00	895.6	
12,000.0	90.50	0.00	7,559.6	11,195.6	989.32 N	253.90 W	511,377.72	780,494.30	0.00	995.5	
12,100.0	90.50	0.00	7,558.7	11,194.7	1,089.31 N	253.90 W	511,477.71	780,494.30	0.00	1,095.5	
12,200.0	90.50	0.00	7,557.8	11,193.8	1,189.31 N	253.90 W	511,577.71	780,494.30	0.00	1,195.4	
12,300.0	90.50	0.00	7,557.0	11,193.0	1,289.31 N	253.90 W	511,677.71	780,494.30	0.00	1,295.4	
12,400.0	90.50	0.00	7,556.1	11,192.1	1,389.30 N	253.90 W	511,777.70	780,494.30	0.00	1,395.4	
12,500.0	90.50	0.00	7,555.2	11,191.2	1,489.30 N	253.90 W	511,877.70	780,494.30	0.00	1,495.3	
12,600.0	90.50	0.00	7,554.3	11,190.3	1,589.29 N	253.90 W	511,977.69	780,494.30	0.00	1,595.3	

Plan Report for Uvalde B3 State Com 2H - 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)			
12,700.0	90.50	0.00	7,553.5	11,189.5	1,689.29 N	253.90 W	512,077.69	780,494.30	0.00	1,695.3	
12,800.0	90.50	0.00	7,552.6	11,188.6	1,789.29 N	253.90 W	512,177.69	780,494.30	0.00	1,795.2	
12,900.0	90.50	0.00	7,551.7	11,187.7	1,889.28 N	253.90 W	512,277.68	780,494.30	0.00	1,895.2	
13,000.0	90.50	0.00	7,550.9	11,186.9	1,989.28 N	253.90 W	512,377.68	780,494.30	0.00	1,995.1	
13,100.0	90.50	0.00	7,550.0	11,186.0	2,089.28 N	253.90 W	512,477.68	780,494.30	0.00	2,095.1	
13,200.0	90.50	0.00	7,549.1	11,185.1	2,189.27 N	253.90 W	512,577.67	780,494.30	0.00	2,195.1	
13,300.0	90.50	0.00	7,548.2	11,184.2	2,289.27 N	253.90 W	512,677.67	780,494.30	0.00	2,295.0	
13,400.0	90.50	0.00	7,547.4	11,183.4	2,389.26 N	253.90 W	512,777.66	780,494.30	0.00	2,395.0	
13,500.0	90.50	0.00	7,546.5	11,182.5	2,489.26 N	253.90 W	512,877.66	780,494.30	0.00	2,495.0	
13,600.0	90.50	0.00	7,545.6	11,181.6	2,589.26 N	253.90 W	512,977.66	780,494.30	0.00	2,594.9	
13,700.0	90.50	0.00	7,544.7	11,180.7	2,689.25 N	253.90 W	513,077.65	780,494.30	0.00	2,694.9	
13,800.0	90.50	0.00	7,543.9	11,179.9	2,789.25 N	253.90 W	513,177.65	780,494.30	0.00	2,794.9	
13,900.0	90.50	0.00	7,543.0	11,179.0	2,889.24 N	253.90 W	513,277.64	780,494.30	0.00	2,894.8	
14,000.0	90.50	0.00	7,542.1	11,178.1	2,989.24 N	253.90 W	513,377.64	780,494.30	0.00	2,994.8	
14,100.0	90.50	0.00	7,541.3	11,177.3	3,089.24 N	253.90 W	513,477.64	780,494.30	0.00	3,094.7	
14,200.0	90.50	0.00	7,540.4	11,176.4	3,189.23 N	253.90 W	513,577.63	780,494.30	0.00	3,194.7	
14,300.0	90.50	0.00	7,539.5	11,175.5	3,289.23 N	253.90 W	513,677.63	780,494.30	0.00	3,294.7	
14,400.0	90.50	0.00	7,538.6	11,174.6	3,389.23 N	253.90 W	513,777.63	780,494.30	0.00	3,394.6	
14,500.0	90.50	0.00	7,537.8	11,173.8	3,489.22 N	253.90 W	513,877.62	780,494.30	0.00	3,494.6	
14,600.0	90.50	0.00	7,536.9	11,172.9	3,589.22 N	253.90 W	513,977.62	780,494.30	0.00	3,594.6	
14,700.0	90.50	0.00	7,536.0	11,172.0	3,689.21 N	253.90 W	514,077.61	780,494.30	0.00	3,694.5	
14,800.0	90.50	0.00	7,535.1	11,171.1	3,789.21 N	253.90 W	514,177.61	780,494.30	0.00	3,794.5	
14,900.0	90.50	0.00	7,534.3	11,170.3	3,889.21 N	253.90 W	514,277.61	780,494.30	0.00	3,894.4	
15,000.0	90.50	0.00	7,533.4	11,169.4	3,989.20 N	253.90 W	514,377.60	780,494.30	0.00	3,994.4	
15,100.0	90.50	0.00	7,532.5	11,168.5	4,089.20 N	253.90 W	514,477.60	780,494.30	0.00	4,094.4	
15,200.0	90.50	0.00	7,531.7	11,167.7	4,189.20 N	253.90 W	514,577.60	780,494.30	0.00	4,194.3	
15,300.0	90.50	0.00	7,530.8	11,166.8	4,289.19 N	253.90 W	514,677.59	780,494.30	0.00	4,294.3	
15,400.0	90.50	0.00	7,529.9	11,165.9	4,389.19 N	253.90 W	514,777.59	780,494.30	0.00	4,394.3	
15,500.0	90.50	0.00	7,529.0	11,165.0	4,489.18 N	253.90 W	514,877.58	780,494.30	0.00	4,494.2	
15,600.0	90.50	0.00	7,528.2	11,164.2	4,589.18 N	253.90 W	514,977.58	780,494.30	0.00	4,594.2	
15,700.0	90.50	0.00	7,527.3	11,163.3	4,689.18 N	253.90 W	515,077.58	780,494.30	0.00	4,694.2	
15,800.0	90.50	0.00	7,526.4	11,162.4	4,789.17 N	253.90 W	515,177.57	780,494.30	0.00	4,794.1	
15,900.0	90.50	0.00	7,525.5	11,161.5	4,889.17 N	253.90 W	515,277.57	780,494.30	0.00	4,894.1	
16,000.0	90.50	0.00	7,524.7	11,160.7	4,989.16 N	253.90 W	515,377.56	780,494.30	0.00	4,994.0	
16,100.0	90.50	0.00	7,523.8	11,159.8	5,089.16 N	253.90 W	515,477.56	780,494.30	0.00	5,094.0	
16,200.0	90.50	0.00	7,522.9	11,158.9	5,189.16 N	253.90 W	515,577.56	780,494.30	0.00	5,194.0	
16,300.0	90.50	0.00	7,522.1	11,158.1	5,289.15 N	253.90 W	515,677.55	780,494.30	0.00	5,293.9	
16,400.0	90.50	0.00	7,521.2	11,157.2	5,389.15 N	253.90 W	515,777.55	780,494.30	0.00	5,393.9	
16,500.0	90.50	0.00	7,520.3	11,156.3	5,489.15 N	253.90 W	515,877.55	780,494.30	0.00	5,493.9	
16,600.0	90.50	0.00	7,519.4	11,155.4	5,589.14 N	253.90 W	515,977.54	780,494.30	0.00	5,593.8	
16,700.0	90.50	0.00	7,518.6	11,154.6	5,689.14 N	253.90 W	516,077.54	780,494.30	0.00	5,693.8	

Plan Report for Uvalde B3 State Com 2H - 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
Depth (usft)	Inclination (°)	Grid Azimuth (°)	System (usft)	Depth (usft)	Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)	Rate (°/100usft)	Section (usft)	
16,800.0	90.50	0.00	7,517.7	11,153.7	5,789.13 N	253.90 W	516,177.53	780,494.30	0.00	5,793.7	
16,900.0	90.50	0.00	7,516.8	11,152.8	5,889.13 N	253.90 W	516,277.53	780,494.30	0.00	5,893.7	
17,000.0	90.50	0.00	7,516.0	11,152.0	5,989.13 N	253.90 W	516,377.53	780,494.30	0.00	5,993.7	
17,100.0	90.50	0.00	7,515.1	11,151.1	6,089.12 N	253.90 W	516,477.52	780,494.30	0.00	6,093.6	
17,200.0	90.50	0.00	7,514.2	11,150.2	6,189.12 N	253.90 W	516,577.52	780,494.30	0.00	6,193.6	
17,300.0	90.50	0.00	7,513.3	11,149.3	6,289.12 N	253.90 W	516,677.52	780,494.30	0.00	6,293.6	
17,400.0	90.50	0.00	7,512.5	11,148.5	6,389.11 N	253.90 W	516,777.51	780,494.30	0.00	6,393.5	
17,500.0	90.50	0.00	7,511.6	11,147.6	6,489.11 N	253.90 W	516,877.51	780,494.30	0.00	6,493.5	
17,600.0	90.50	0.00	7,510.7	11,146.7	6,589.10 N	253.90 W	516,977.50	780,494.30	0.00	6,593.5	
17,700.0	90.50	0.00	7,509.8	11,145.8	6,689.10 N	253.90 W	517,077.50	780,494.30	0.00	6,693.4	
17,800.0	90.50	0.00	7,509.0	11,145.0	6,789.10 N	253.90 W	517,177.50	780,494.30	0.00	6,793.4	
17,900.0	90.50	0.00	7,508.1	11,144.1	6,889.09 N	253.90 W	517,277.49	780,494.30	0.00	6,893.3	
18,000.0	90.50	0.00	7,507.2	11,143.2	6,989.09 N	253.90 W	517,377.49	780,494.30	0.00	6,993.3	
18,100.0	90.50	0.00	7,506.4	11,142.4	7,089.08 N	253.90 W	517,477.48	780,494.30	0.00	7,093.3	
18,200.0	90.50	0.00	7,505.5	11,141.5	7,189.08 N	253.90 W	517,577.48	780,494.30	0.00	7,193.2	
18,300.0	90.50	0.00	7,504.6	11,140.6	7,289.08 N	253.90 W	517,677.48	780,494.30	0.00	7,293.2	
18,400.0	90.50	0.00	7,503.7	11,139.7	7,389.07 N	253.90 W	517,777.47	780,494.30	0.00	7,393.2	
18,500.0	90.50	0.00	7,502.9	11,138.9	7,489.07 N	253.90 W	517,877.47	780,494.30	0.00	7,493.1	
18,600.0	90.50	0.00	7,502.0	11,138.0	7,589.07 N	253.90 W	517,977.47	780,494.30	0.00	7,593.1	
18,700.0	90.50	0.00	7,501.1	11,137.1	7,689.06 N	253.90 W	518,077.46	780,494.30	0.00	7,693.0	
18,800.0	90.50	0.00	7,500.2	11,136.2	7,789.06 N	253.90 W	518,177.46	780,494.30	0.00	7,793.0	
18,900.0	90.50	0.00	7,499.4	11,135.4	7,889.05 N	253.90 W	518,277.45	780,494.30	0.00	7,893.0	
19,000.0	90.50	0.00	7,498.5	11,134.5	7,989.05 N	253.90 W	518,377.45	780,494.30	0.00	7,992.9	
19,100.0	90.50	0.00	7,497.6	11,133.6	8,089.05 N	253.90 W	518,477.45	780,494.30	0.00	8,092.9	
19,200.0	90.50	0.00	7,496.8	11,132.8	8,189.04 N	253.90 W	518,577.44	780,494.30	0.00	8,192.9	
19,300.0	90.50	0.00	7,495.9	11,131.9	8,289.04 N	253.90 W	518,677.44	780,494.30	0.00	8,292.8	
19,400.0	90.50	0.00	7,495.0	11,131.0	8,389.04 N	253.90 W	518,777.44	780,494.30	0.00	8,392.8	
19,500.0	90.50	0.00	7,494.1	11,130.1	8,489.03 N	253.90 W	518,877.43	780,494.30	0.00	8,492.8	
19,600.0	90.50	0.00	7,493.3	11,129.3	8,589.03 N	253.90 W	518,977.43	780,494.30	0.00	8,592.7	
19,700.0	90.50	0.00	7,492.4	11,128.4	8,689.02 N	253.90 W	519,077.42	780,494.30	0.00	8,692.7	
19,800.0	90.50	0.00	7,491.5	11,127.5	8,789.02 N	253.90 W	519,177.42	780,494.30	0.00	8,792.6	
19,900.0	90.50	0.00	7,490.6	11,126.6	8,889.02 N	253.90 W	519,277.42	780,494.30	0.00	8,892.6	
20,000.0	90.50	0.00	7,489.8	11,125.8	8,989.01 N	253.90 W	519,377.41	780,494.30	0.00	8,992.6	
20,100.0	90.50	0.00	7,488.9	11,124.9	9,089.01 N	253.90 W	519,477.41	780,494.30	0.00	9,092.5	
20,200.0	90.50	0.00	7,488.0	11,124.0	9,189.00 N	253.90 W	519,577.40	780,494.30	0.00	9,192.5	
20,300.0	90.50	0.00	7,487.2	11,123.2	9,289.00 N	253.90 W	519,677.40	780,494.30	0.00	9,292.5	
20,400.0	90.50	0.00	7,486.3	11,122.3	9,389.00 N	253.90 W	519,777.40	780,494.30	0.00	9,392.4	
20,500.0	90.50	0.00	7,485.4	11,121.4	9,488.99 N	253.90 W	519,877.39	780,494.30	0.00	9,492.4	
20,600.0	90.50	0.00	7,484.5	11,120.5	9,588.99 N	253.90 W	519,977.39	780,494.30	0.00	9,592.3	
20,700.0	90.50	0.00	7,483.7	11,119.7	9,688.99 N	253.90 W	520,077.39	780,494.30	0.00	9,692.3	
20,800.0	90.50	0.00	7,482.8	11,118.8	9,788.98 N	253.90 W	520,177.38	780,494.30	0.00	9,792.3	

Plan Report for Uvalde B3 State Com 2H - 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)			
20,890.5	90.50	0.00	7,482.0	11,118.0	9,879.50 N	253.90 W	520,267.90	780,494.30	0.00	9,882.8	BHL

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,500.0	2,500.0	0.0	0.0	Start Nudge
2,874.8	2,873.7	0.0	-24.5	Hold 7.50°Inc
4,445.8	4,431.3	0.0	-229.4	EOH
4,820.6	4,805.0	0.0	-253.9	Vertical
10,738.1	10,722.6	0.0	-253.9	KOP
11,492.3	11,200.0	481.6	-253.9	Landing Point
20,890.5	11,118.0	9,879.5	-253.9	BHL

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/-S (usft)	+E/-W (usft)	
Target	BHL (Uvalde B3 Fed Com 2H)	358.53	Slot	0.0	0.0	0.0

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.0	20,889.7	Plan 1	MWD+SC

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
900.0	900.0	13 3/8"	13-3/8	17-1/2

Plan Report for Uvalde B3 State Com 2H - Plan 1

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,700.0	1,700.0	-1,936.00	Rustler		0.00	
2,064.0	2,064.0	-1,572.00	Top of Salt		0.00	
3,165.6	3,162.0	-474.00	Base of Salt		0.00	
3,708.2	3,700.0	64.00	Delaware		0.00	
8,121.6	8,106.0	4,470.00	Bone Spring		0.00	
8,150.6	8,135.0	4,499.00	Avalon		0.00	
9,104.6	9,089.0	5,453.00	1st Bone Spring		0.00	
9,527.6	9,512.0	5,876.00	2nd Bone Spring		0.00	
10,894.3	10,876.0	7,240.00	3rd Bone Spring		0.00	
11,482.6	11,200.0	7,564.00	Target (0 KBTVD @ 90.5")		0.00	

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									
BHL (Uvalde B3 Fed Com 2H) ()									
	0.00	0.00	11,118.0	9,879.5	-253.9	520,267.90	780,494.30	32° 25' 37.379 N	103° 25' 27.391 W
- plan hits target center									
- Point									

Directional Difficulty Index

Average Dogleg over Survey:	0.50 °/100usft	Maximum Dogleg over Survey:	12.00 °/100usft at 11,492.3 usft
Net Tortousity applicable to Plans:	0.50 °/100usft	Directional Difficulty Index:	6.583

Audit Info

North Reference Sheet for Uvalde B Pad - Uvalde B3 State Com 2H - 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 GL:3611+25ft @ 3636.0usft (KB(+25ft)). Northing and Easting are relative to Uvalde B3 State Com 2H

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: 0.99999936

Grid Coordinates of Well: 510,388.40 usft N, 780,748.20 usft E

Geographical Coordinates of Well: 32° 23' 59.60" N, 103° 25' 25.41" W

Grid Convergence at Surface is: 0.49°

Based upon Minimum Curvature type calculations, at a Measured Depth of 20,890.52usft
the Bottom Hole Displacement is 9,882.76usft in the Direction of 358.53° (Grid).

Magnetic Convergence at surface is: -6.43° (28 September 2017, , BGGM2017)

