

Endurance Resources, LLC

Lea County, NM (NAD 83)
Stratocaster 20 Fed
Stratocaster 20 Fed #6H

Wellbore #1
Plan #1

Sperry Drilling Services Ellipse Separation Anticollision Report

26 May, 2016

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)
Reference Design: Stratocaster 20 Fed - Stratocaster 20 Fed #6H - Wellbore #1 - Plan #1

Well Coordinates: 468,027.59 N, 800,477.43 E (32° 17' 02.03" N, 103° 29' 41.22" W)

Datum Height: WELL @ 3561.30usft (TBD)

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Version: 5000.1 Build: 81B

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Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #1H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.00	0.00	0.08	113.44	94.24	272.27	-1,143.90	0.14	1,175.87	1,175.64	-76.61	5,076.203
200.00	200.00	0.00	0.00	0.31	212.07	192.87	272.86	-1,144.33	0.41	1,176.43	1,175.72	-76.59	1,642.696
300.00	300.00	0.00	0.00	0.53	313.73	294.52	273.62	-1,144.71	0.67	1,176.97	1,175.76	-76.56	974.498
400.00	400.00	0.00	0.00	0.76	414.25	395.04	274.30	-1,144.98	0.94	1,177.39	1,175.69	-76.53	693.666
500.00	500.00	0.00	0.00	0.98	511.28	492.07	274.95	-1,145.38	1.20	1,177.95	1,175.77	-76.50	540.654
600.00	600.00	0.00	0.00	1.21	611.31	592.09	275.83	-1,145.87	1.46	1,178.62	1,175.96	-76.47	441.747
700.00	700.00	0.00	0.00	1.43	712.30	693.08	276.83	-1,146.28	1.73	1,179.25	1,176.09	-76.42	373.195
800.00	800.00	0.00	0.00	1.66	812.80	793.57	277.74	-1,146.62	1.99	1,179.80	1,176.15	-76.38	323.212
900.00	900.00	0.00	0.00	1.88	910.40	891.17	278.56	-1,147.10	2.25	1,180.47	1,176.33	-76.35	285.640
1,000.00	1,000.00	0.00	0.00	2.11	1,013.28	994.04	279.62	-1,147.51	2.52	1,181.10	1,176.48	-76.31	255.306
1,100.00	1,100.00	0.00	0.00	2.33	1,116.78	1,097.53	280.88	-1,147.54	2.78	1,181.42	1,176.31	-76.25	231.100
1,200.00	1,200.00	0.00	0.00	2.56	1,215.32	1,196.06	282.21	-1,147.51	3.03	1,181.71	1,176.12	-76.18	211.637
1,300.00	1,300.00	0.00	0.00	2.78	1,315.92	1,296.65	283.85	-1,147.42	3.28	1,182.01	1,175.95	-76.11	194.959
1,400.00	1,400.00	0.00	0.00	3.01	1,415.81	1,396.52	285.37	-1,147.33	3.54	1,182.30	1,175.75	-76.03	180.740
1,500.00	1,500.00	0.00	0.00	3.23	1,515.40	1,496.11	286.96	-1,147.26	3.79	1,182.61	1,175.59	-75.96	168.428
1,600.00	1,600.00	0.00	0.00	3.46	1,615.83	1,596.52	288.73	-1,147.15	4.05	1,182.93	1,175.43	-75.87	157.645
1,700.00	1,700.00	0.00	0.00	3.68	1,716.66	1,697.33	290.57	-1,146.93	4.31	1,183.17	1,175.18	-75.78	148.148
1,800.00	1,800.00	0.00	0.00	3.91	1,815.04	1,795.70	292.26	-1,146.80	4.56	1,183.47	1,175.00	-75.70	139.808
1,900.00	1,900.00	0.00	0.00	4.13	1,913.98	1,894.62	294.01	-1,146.78	4.82	1,183.88	1,174.94	-75.62	132.303
2,000.00	2,000.00	0.00	0.00	4.35	2,014.43	1,995.05	296.00	-1,146.73	5.08	1,184.33	1,174.89	-75.53	125.515
2,100.00	2,100.00	0.00	0.00	4.58	2,115.32	2,095.92	298.07	-1,146.58	5.34	1,184.69	1,174.77	-75.43	119.384
2,200.00	2,200.00	0.00	0.00	4.80	2,214.01	2,194.59	300.04	-1,146.47	5.60	1,185.09	1,174.69	-75.33	113.885
2,300.00	2,300.00	0.00	0.00	5.03	2,312.58	2,293.14	302.19	-1,146.44	5.86	1,185.62	1,174.73	-75.23	108.870
2,400.00	2,400.00	0.00	0.00	5.25	2,412.27	2,392.81	304.40	-1,146.46	6.12	1,186.21	1,174.83	-75.13	104.254
2,500.00	2,500.00	0.00	0.00	5.48	2,512.24	2,492.74	306.78	-1,146.46	6.39	1,186.82	1,174.96	-75.02	100.012
2,600.00	2,600.00	0.00	0.00	5.70	2,612.68	2,593.15	309.25	-1,146.41	6.65	1,187.40	1,175.05	-74.90	96.096
2,700.00	2,700.00	0.00	0.00	5.93	2,711.50	2,691.94	311.80	-1,146.38	6.91	1,188.05	1,175.21	-74.78	92.512
2,800.00	2,800.00	0.00	0.00	6.15	2,813.47	2,793.87	314.53	-1,146.24	7.18	1,188.62	1,175.29	-74.66	89.132
2,900.00	2,900.00	0.00	0.00	6.38	2,911.75	2,892.12	317.31	-1,146.08	7.44	1,189.22	1,175.40	-74.52	86.057
3,000.00	3,000.00	0.00	0.00	6.60	3,012.21	2,992.53	320.18	-1,145.97	7.71	1,189.88	1,175.57	-74.39	83.156
3,100.00	3,100.00	0.00	0.00	6.83	3,114.69	3,094.97	323.24	-1,145.64	7.98	1,190.38	1,175.58	-74.24	80.415

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Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #1H - Wellbore #1 - Surveys

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Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
3,200.00	3,200.00	0.00	0.00	7.05	3,213.43	3,193.66	326.39	-1,145.26	8.24	1,190.87	1,175.59	-74.09	77.904
3,300.00	3,300.00	0.00	0.00	7.28	3,315.12	3,295.29	329.66	-1,144.81	8.50	1,191.34	1,175.56	-73.94	75.508
3,400.00	3,400.00	0.00	0.00	7.50	3,416.86	3,396.97	333.05	-1,144.15	8.77	1,191.64	1,175.37	-73.77	73.253
3,500.00	3,500.00	0.00	0.00	7.73	3,515.53	3,495.58	336.56	-1,143.46	9.02	1,191.97	1,175.22	-73.60	71.165
3,600.00	3,600.00	0.00	0.00	7.95	3,616.41	3,596.40	340.10	-1,142.77	9.29	1,192.31	1,175.07	-73.43	69.170
3,700.00	3,700.00	0.00	0.00	8.18	3,717.88	3,697.80	343.66	-1,141.94	9.55	1,192.53	1,174.80	-73.25	67.275
3,800.00	3,800.00	0.00	0.00	8.40	3,816.33	3,796.18	347.25	-1,141.12	9.81	1,192.79	1,174.59	-73.07	65.511
3,900.00	3,900.00	0.00	0.00	8.63	3,917.72	3,897.51	350.87	-1,140.33	10.07	1,193.09	1,174.40	-72.90	63.813
4,000.00	4,000.00	0.00	0.00	8.85	4,022.83	4,002.54	354.62	-1,139.13	10.34	1,193.05	1,173.86	-72.71	62.164
4,100.00	4,100.00	0.00	0.00	9.07	4,124.90	4,104.53	358.50	-1,137.64	10.60	1,192.79	1,173.12	-72.51	60.621
4,200.00	4,200.00	0.00	0.00	9.30	4,229.06	4,208.58	362.68	-1,135.65	10.87	1,192.19	1,172.03	-72.29	59.128
4,300.00	4,300.00	0.00	0.00	9.52	4,327.99	4,307.37	367.47	-1,133.39	11.11	1,191.49	1,170.86	-72.04	57.734
4,400.00	4,400.00	0.00	0.00	9.75	4,425.54	4,404.74	372.88	-1,131.13	11.36	1,191.01	1,169.90	-71.75	56.414
4,500.00	4,500.00	0.00	0.00	9.97	4,526.53	4,505.54	378.68	-1,128.77	11.62	1,190.61	1,169.01	-71.45	55.129
4,600.00	4,600.00	0.00	0.00	10.20	4,629.34	4,608.12	384.91	-1,126.01	11.89	1,190.01	1,167.93	-71.13	53.883
4,700.00	4,700.00	0.00	0.00	10.42	4,729.84	4,708.37	391.35	-1,123.04	12.15	1,189.30	1,166.74	-70.79	52.699
4,800.00	4,800.00	0.00	0.00	10.65	4,829.01	4,807.28	397.80	-1,120.07	12.40	1,188.64	1,165.59	-70.45	51.572
4,900.00	4,900.00	0.00	0.00	10.87	4,927.59	4,905.64	403.87	-1,117.33	12.66	1,188.09	1,164.57	-70.13	50.498
5,000.00	5,000.00	0.00	0.00	11.10	5,026.44	5,004.30	409.61	-1,114.81	12.91	1,187.68	1,163.68	-69.83	49.470
5,100.00	5,100.00	0.00	0.00	11.32	5,126.27	5,103.93	415.20	-1,112.38	13.17	1,187.35	1,162.85	-69.53	48.479
5,200.00	5,200.00	0.00	0.00	11.55	5,226.49	5,203.99	420.33	-1,110.08	13.43	1,187.00	1,162.03	-69.26	47.525
5,300.00	5,300.00	0.00	0.00	11.77	5,325.54	5,302.91	425.20	-1,107.91	13.69	1,186.71	1,161.25	-69.00	46.614
5,400.00	5,400.00	0.00	0.00	12.00	5,424.19	5,401.43	429.88	-1,105.91	13.94	1,186.52	1,160.59	-68.76	45.742
5,500.00	5,500.00	0.00	0.00	12.22	5,523.44	5,500.56	434.41	-1,104.07	14.20	1,186.46	1,160.03	-68.52	44.902
5,600.00	5,600.00	0.00	0.00	12.45	5,624.02	5,601.02	438.63	-1,102.32	14.47	1,186.38	1,159.47	-68.30	44.086
5,700.00	5,700.00	0.00	0.00	12.67	5,723.56	5,700.48	442.63	-1,100.64	14.72	1,186.31	1,158.91	-68.09	43.304
5,724.30	5,724.30	0.00	0.00	12.73	5,747.41	5,724.30	443.59	-1,100.25	14.79	1,186.30	1,158.79	-68.04	43.120
5,800.00	5,800.00	0.00	0.00	12.90	5,822.09	5,798.91	446.62	-1,099.06	14.98	1,186.34	1,158.47	-67.88	42.556
5,900.00	5,900.00	0.00	0.00	13.12	5,921.57	5,898.31	450.38	-1,097.64	15.24	1,186.45	1,158.08	-67.69	41.830
6,000.00	6,000.00	0.00	0.00	13.35	6,019.75	5,996.42	453.74	-1,096.50	15.50	1,186.68	1,157.83	-67.52	41.137
6,100.00	6,100.00	0.00	0.00	13.57	6,119.56	6,096.18	456.89	-1,095.53	15.77	1,187.00	1,157.66	-67.36	40.463
6,200.00	6,200.00	0.00	0.00	13.80	6,220.02	6,196.59	459.69	-1,094.70	16.03	1,187.31	1,157.48	-67.22	39.809

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Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
6,300.00	6,300.00	0.00	0.00	14.02	6,321.36	6,297.90	462.19	-1,093.90	16.30	1,187.53	1,157.22	-67.10	39.171
6,400.00	6,400.00	0.00	0.00	14.24	6,422.27	6,398.78	464.57	-1,093.05	16.56	1,187.68	1,156.88	-66.97	38.553
6,500.00	6,500.00	0.00	0.00	14.47	6,523.60	6,500.08	466.81	-1,092.13	16.83	1,187.72	1,156.42	-66.86	37.952
6,586.42	6,586.42	0.00	0.00	14.66	6,610.01	6,586.48	468.62	-1,091.35	17.05	1,187.71	1,156.00	-66.76	37.450
6,600.00	6,600.00	0.00	0.00	14.69	6,623.47	6,599.93	468.90	-1,091.23	17.09	1,187.71	1,155.93	-66.75	37.373
6,700.00	6,700.00	0.00	0.00	14.92	6,723.14	6,699.58	470.91	-1,090.40	17.35	1,187.74	1,155.47	-66.64	36.812
6,800.00	6,800.00	0.00	0.00	15.14	6,823.26	6,799.67	472.92	-1,089.55	17.61	1,187.76	1,155.01	-66.54	36.267
6,900.00	6,900.00	0.00	0.00	15.37	6,922.62	6,899.01	474.89	-1,088.75	17.87	1,187.82	1,154.58	-66.43	35.740
7,000.00	7,000.00	0.00	0.00	15.59	7,021.95	6,998.31	476.84	-1,088.04	18.13	1,187.94	1,154.22	-66.33	35.229
7,100.00	7,100.00	0.00	0.00	15.82	7,121.97	7,098.32	478.67	-1,087.36	18.39	1,188.06	1,153.85	-66.24	34.730
7,200.00	7,200.00	0.00	0.00	16.04	7,220.24	7,196.58	480.36	-1,086.86	18.65	1,188.29	1,153.60	-66.16	34.252
7,300.00	7,300.00	0.00	0.00	16.27	7,319.25	7,295.57	481.78	-1,086.58	18.91	1,188.61	1,153.43	-66.09	33.787
7,400.00	7,400.00	0.00	0.00	16.49	7,417.10	7,393.42	482.92	-1,086.58	19.17	1,189.08	1,153.42	-66.04	33.345
7,500.00	7,500.00	0.00	0.00	16.72	7,516.61	7,492.92	483.97	-1,086.74	19.43	1,189.65	1,153.51	-65.99	32.916
7,600.00	7,600.00	0.00	0.00	16.94	7,615.67	7,591.97	485.02	-1,086.96	19.68	1,190.29	1,153.67	-65.95	32.504
7,700.00	7,700.00	0.00	0.00	17.17	7,715.36	7,691.66	486.01	-1,087.28	19.93	1,190.99	1,153.90	-65.92	32.107
7,800.00	7,800.00	0.00	0.00	17.39	7,817.05	7,793.34	486.87	-1,087.58	20.18	1,191.60	1,154.03	-65.88	31.717
7,900.00	7,900.00	0.00	0.00	17.62	7,916.41	7,892.70	487.49	-1,087.96	20.41	1,192.21	1,154.18	-65.86	31.355
8,000.00	8,000.00	0.00	0.00	17.84	8,017.89	7,994.18	487.86	-1,088.37	20.61	1,192.72	1,154.27	-65.86	31.020
8,100.00	8,100.00	0.00	0.00	18.07	8,115.14	8,091.43	488.11	-1,088.91	20.77	1,193.33	1,154.50	-65.86	30.726
8,200.00	8,200.00	0.00	0.00	18.29	8,213.72	8,190.00	488.13	-1,089.75	20.89	1,194.12	1,154.94	-65.87	30.480
8,300.00	8,300.00	0.00	0.00	18.52	8,312.82	8,289.10	487.89	-1,090.78	20.97	1,194.97	1,155.49	-65.90	30.267
8,400.00	8,400.00	0.00	0.00	18.74	8,407.50	8,383.77	487.78	-1,092.01	21.06	1,196.11	1,156.32	-65.93	30.058
8,500.00	8,500.00	0.00	0.00	18.96	8,505.22	8,481.48	487.96	-1,093.48	21.18	1,197.56	1,157.42	-65.95	29.832
8,600.00	8,600.00	0.00	0.00	19.19	8,601.40	8,577.64	488.28	-1,095.14	21.32	1,199.27	1,158.77	-65.97	29.608
8,700.00	8,700.00	0.00	0.00	19.41	8,698.99	8,675.22	488.69	-1,097.06	21.47	1,201.24	1,160.36	-65.99	29.390
8,800.00	8,800.00	0.00	0.00	19.64	8,794.01	8,770.21	489.26	-1,099.17	21.61	1,203.50	1,162.26	-66.01	29.180
8,900.00	8,900.00	0.00	0.00	19.86	8,881.48	8,857.63	490.26	-1,101.56	21.77	1,206.48	1,164.86	-66.01	28.992
9,000.00	9,000.00	0.00	0.00	20.09	8,972.07	8,948.16	492.04	-1,104.67	21.94	1,210.41	1,168.41	-65.99	28.818
9,100.00	9,100.00	0.00	0.00	20.31	9,067.66	9,043.65	494.02	-1,108.51	22.12	1,214.92	1,172.52	-65.98	28.651
9,200.00	9,200.00	0.00	0.00	20.54	9,171.32	9,147.21	495.83	-1,112.89	22.31	1,219.49	1,176.67	-65.99	28.481
9,300.00	9,300.00	0.00	0.00	20.76	9,273.13	9,248.92	496.69	-1,117.18	22.47	1,223.69	1,180.48	-66.03	28.321

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Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
9,400.00	9,400.00	0.00	0.00	20.99	9,371.17	9,346.87	497.49	-1,121.36	22.63	1,227.92	1,184.33	-66.08	28.173
9,500.00	9,500.00	0.00	0.00	21.21	9,468.13	9,443.72	498.40	-1,125.67	22.79	1,232.36	1,188.40	-66.12	28.031
9,600.00	9,600.00	0.00	0.00	21.44	9,566.56	9,542.04	499.38	-1,130.24	22.95	1,237.01	1,192.66	-66.16	27.892
9,700.00	9,700.00	0.00	0.00	21.66	9,674.62	9,649.99	500.62	-1,134.97	23.14	1,241.48	1,196.71	-66.20	27.731
9,800.00	9,800.00	0.00	0.00	21.89	9,783.73	9,759.03	501.73	-1,138.81	23.33	1,245.11	1,199.91	-66.22	27.549
9,900.00	9,899.96	1.63	-0.03	22.11	9,884.60	9,859.84	502.74	-1,141.90	23.52	1,247.63	1,202.03	-65.14	27.357
10,000.00	9,998.03	20.22	-0.39	22.34	9,943.00	9,918.19	504.49	-1,143.57	23.60	1,244.08	1,198.23	-65.87	27.134
10,100.00	10,090.09	58.79	-1.13	22.55	9,975.00	9,950.06	506.75	-1,145.31	23.60	1,236.70	1,190.76	-67.11	26.922
10,200.00	10,172.12	115.66	-2.23	22.76	10,017.97	9,992.55	511.61	-1,149.30	23.60	1,226.70	1,180.66	-69.15	26.642
10,300.00	10,240.53	188.33	-3.63	23.04	10,060.00	10,033.61	519.31	-1,153.87	23.60	1,214.67	1,168.46	-71.69	26.286
10,400.00	10,292.33	273.64	-5.27	23.39	10,117.96	10,089.43	533.45	-1,160.35	23.61	1,201.20	1,154.63	-75.20	25.798
10,500.00	10,325.26	367.85	-7.08	23.84	10,164.00	10,133.03	547.44	-1,165.05	23.62	1,187.48	1,140.43	-78.57	25.242
10,600.00	10,337.88	466.84	-8.99	24.39	10,196.00	10,162.76	558.76	-1,168.51	23.63	1,176.27	1,128.61	-81.28	24.680
10,700.00	10,338.00	566.82	-10.92	25.04	10,222.48	10,187.05	568.84	-1,171.60	23.63	1,170.46	1,122.06	-82.59	24.181
10,800.00	10,338.00	666.81	-12.84	25.81	10,442.27	10,364.83	695.21	-1,177.41	23.81	1,165.22	1,115.60	-91.32	23.483
10,900.00	10,338.00	766.79	-14.77	26.68	10,639.00	10,467.36	860.07	-1,158.48	24.28	1,154.78	1,103.97	-96.46	22.728
11,000.00	10,338.00	866.77	-16.69	27.64	10,714.92	10,493.62	930.83	-1,150.43	24.56	1,146.16	1,094.18	-97.83	22.052
11,100.00	10,338.00	966.75	-18.62	28.69	10,820.33	10,527.03	1,030.15	-1,139.11	24.98	1,138.09	1,084.78	-99.59	21.349
11,200.00	10,338.00	1,066.73	-20.54	29.82	10,862.00	10,537.73	1,070.28	-1,135.96	25.18	1,133.16	1,078.57	-100.15	20.759
11,256.26	10,338.00	1,122.98	-21.63	30.49	10,894.00	10,544.55	1,101.53	-1,134.93	25.35	1,132.50	1,077.12	-100.51	20.450
11,300.00	10,338.00	1,166.71	-22.47	31.01	10,920.72	10,549.20	1,127.84	-1,134.79	25.51	1,132.86	1,076.85	-100.75	20.226
11,400.00	10,338.00	1,266.69	-24.40	32.26	10,981.42	10,555.66	1,188.15	-1,136.35	25.88	1,135.77	1,078.24	-101.06	19.740
11,500.00	10,338.00	1,366.68	-26.32	33.57	11,091.44	10,556.60	1,297.84	-1,144.18	26.63	1,141.11	1,081.55	-101.05	19.158
11,600.00	10,338.00	1,466.66	-28.25	34.93	11,206.13	10,548.12	1,411.93	-1,152.17	27.47	1,144.71	1,082.92	-100.58	18.527
11,700.00	10,338.00	1,566.64	-30.17	36.32	11,331.00	10,539.53	1,536.33	-1,158.53	28.37	1,146.61	1,082.49	-100.12	17.883
11,800.00	10,338.00	1,666.62	-32.10	37.75	11,483.58	10,534.66	1,688.78	-1,161.23	29.60	1,146.35	1,079.59	-99.89	17.172
11,900.00	10,338.00	1,766.60	-34.02	39.22	11,625.90	10,533.59	1,830.92	-1,154.79	30.86	1,139.52	1,070.14	-99.91	16.425
12,000.00	10,338.00	1,866.58	-35.95	40.72	11,713.29	10,535.01	1,918.16	-1,150.05	31.70	1,132.56	1,060.88	-100.04	15.801
12,100.00	10,338.00	1,966.56	-37.87	42.24	11,799.70	10,534.51	2,004.50	-1,146.66	32.59	1,126.70	1,052.63	-100.06	15.210
12,200.00	10,338.00	2,066.55	-39.80	43.79	11,922.25	10,532.13	2,126.92	-1,141.66	33.88	1,120.46	1,043.64	-100.00	14.585
12,300.00	10,338.00	2,166.53	-41.73	45.36	12,013.63	10,531.88	2,218.19	-1,137.04	34.81	1,113.54	1,034.25	-100.05	14.044
12,400.00	10,338.00	2,266.51	-43.65	46.94	12,102.65	10,533.41	2,307.10	-1,133.03	35.71	1,107.51	1,025.77	-100.18	13.549

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #1H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
12,500.00	10,338.00	2,366.49	-45.58	48.55	12,202.45	10,535.26	2,406.80	-1,128.99	36.80	1,101.96	1,017.59	-100.33	13.061
12,600.00	10,338.00	2,466.47	-47.50	50.17	12,289.27	10,535.51	2,493.58	-1,126.29	37.83	1,097.06	1,010.07	-100.38	12.611
12,700.00	10,338.00	2,566.45	-49.43	51.80	12,371.76	10,534.69	2,576.05	-1,125.04	38.82	1,093.49	1,003.90	-100.37	12.205
12,800.00	10,338.00	2,666.44	-51.35	53.45	12,472.95	10,534.07	2,677.23	-1,124.32	40.02	1,090.79	998.39	-100.36	11.806
12,900.00	10,338.00	2,766.42	-53.28	55.11	12,587.89	10,533.42	2,792.15	-1,122.51	41.38	1,087.25	991.89	-100.36	11.402
13,000.00	10,338.00	2,866.40	-55.20	56.78	12,685.19	10,533.22	2,889.43	-1,120.45	42.55	1,083.23	985.08	-100.39	11.037
13,100.00	10,338.00	2,966.38	-57.13	58.46	12,788.45	10,534.51	2,992.65	-1,117.90	43.79	1,079.14	978.15	-100.50	10.686
13,200.00	10,338.00	3,066.36	-59.06	60.15	12,887.92	10,534.87	3,092.08	-1,115.05	45.02	1,074.50	970.65	-100.57	10.347
13,300.00	10,338.00	3,166.34	-60.98	61.85	12,977.33	10,534.88	3,181.47	-1,113.67	46.14	1,071.05	964.42	-100.60	10.045
13,400.00	10,338.00	3,266.32	-62.91	63.55	13,087.01	10,533.36	3,291.12	-1,111.39	47.51	1,066.81	957.16	-100.56	9.729
13,500.00	10,338.00	3,366.31	-64.83	65.27	13,181.96	10,532.64	3,386.05	-1,109.74	48.70	1,063.06	950.54	-100.56	9.448
13,600.00	10,338.00	3,466.29	-66.76	66.98	13,276.78	10,532.71	3,480.85	-1,107.82	49.90	1,059.21	943.82	-100.60	9.179
13,700.00	10,338.00	3,566.27	-68.68	68.71	13,355.83	10,533.69	3,559.90	-1,107.29	50.91	1,056.90	938.83	-100.67	8.951
13,758.76	10,338.00	3,625.02	-69.82	69.72	13,400.98	10,534.61	3,605.03	-1,107.69	51.49	1,056.53	936.91	-100.72	8.833
13,800.00	10,338.00	3,666.25	-70.61	70.44	13,433.29	10,535.42	3,637.32	-1,108.31	51.90	1,056.71	936.02	-100.77	8.755
13,900.00	10,338.00	3,766.23	-72.53	72.17	13,518.62	10,537.22	3,722.60	-1,110.95	53.03	1,058.25	934.80	-100.85	8.573
14,000.00	10,338.00	3,866.21	-74.46	73.91	13,612.29	10,538.14	3,816.16	-1,115.14	54.29	1,060.93	934.57	-100.88	8.396
14,100.00	10,338.00	3,966.19	-76.39	75.66	13,721.21	10,537.32	3,924.96	-1,120.09	55.77	1,063.36	933.76	-100.81	8.205
14,200.00	10,338.00	4,066.18	-78.31	77.40	13,799.99	10,536.60	4,003.63	-1,124.25	56.82	1,066.47	934.18	-100.74	8.062
14,300.00	10,338.00	4,166.16	-80.24	79.16	13,916.24	10,536.49	4,119.71	-1,130.44	58.37	1,069.80	934.17	-100.70	7.888
14,400.00	10,338.00	4,266.14	-82.16	80.91	14,016.18	10,535.61	4,219.54	-1,135.06	59.74	1,072.29	933.56	-100.62	7.729
14,500.00	10,338.00	4,366.12	-84.09	82.67	14,110.85	10,533.57	4,314.07	-1,139.82	61.06	1,074.96	933.16	-100.49	7.581
14,600.00	10,338.00	4,466.10	-86.01	84.43	14,203.45	10,530.21	4,406.44	-1,145.38	62.37	1,078.31	933.45	-100.27	7.444
14,700.00	10,338.00	4,566.08	-87.94	86.20	14,303.78	10,525.28	4,506.44	-1,151.87	63.79	1,081.94	933.82	-99.97	7.305
14,703.36	10,338.00	4,569.44	-88.00	86.26	14,307.13	10,525.11	4,509.78	-1,152.09	63.84	1,082.06	933.83	-99.96	7.300

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #2H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.00	0.00	0.08	96.52	100.12	-48.23	175.20	0.11	181.71	181.52	105.39	939.573
200.00	200.00	0.00	0.00	0.31	196.67	200.27	-48.40	175.04	0.29	181.61	181.02	105.46	304.460
300.00	300.00	0.00	0.00	0.53	296.65	300.25	-48.53	174.83	0.54	181.44	180.36	105.51	168.346
381.49	381.49	0.00	0.00	0.72	377.89	381.49	-48.73	174.71	0.74	181.38	179.92	105.58	124.255
400.00	400.00	0.00	0.00	0.76	396.33	399.93	-48.77	174.70	0.79	181.38	179.84	105.60	117.483
500.00	500.00	0.00	0.00	0.98	496.19	499.79	-49.06	174.73	1.02	181.49	179.49	105.68	90.776
600.00	600.00	0.00	0.00	1.21	596.31	599.90	-49.48	174.71	1.26	181.58	179.11	105.81	73.468
700.00	700.00	0.00	0.00	1.43	696.91	700.50	-49.87	174.52	1.49	181.51	178.58	105.95	62.020
800.00	800.00	0.00	0.00	1.66	796.64	800.23	-49.80	174.26	1.62	181.24	177.95	105.95	55.212
857.29	857.29	0.00	0.00	1.79	853.69	857.29	-49.68	174.26	1.66	181.20	177.76	105.91	52.581
900.00	900.00	0.00	0.00	1.88	896.27	899.86	-49.59	174.30	1.68	181.22	177.66	105.88	50.914
1,000.00	1,000.00	0.00	0.00	2.11	995.90	999.49	-49.45	174.53	1.75	181.40	177.54	105.82	47.072
1,100.00	1,100.00	0.00	0.00	2.33	1,095.35	1,098.95	-49.36	174.99	1.86	181.82	177.63	105.75	43.378
1,200.00	1,200.00	0.00	0.00	2.56	1,195.19	1,198.79	-49.22	175.68	2.00	182.45	177.89	105.65	40.019
1,300.00	1,300.00	0.00	0.00	2.78	1,295.29	1,298.88	-49.00	176.41	2.17	183.09	178.14	105.52	37.012
1,400.00	1,400.00	0.00	0.00	3.01	1,395.52	1,399.10	-48.69	177.06	2.34	183.64	178.29	105.38	34.342
1,500.00	1,500.00	0.00	0.00	3.23	1,495.66	1,499.24	-48.43	177.60	2.53	184.09	178.32	105.25	31.942
1,600.00	1,600.00	0.00	0.00	3.46	1,595.83	1,599.42	-48.28	178.03	2.74	184.46	178.26	105.17	29.778
1,700.00	1,700.00	0.00	0.00	3.68	1,696.12	1,699.70	-48.16	178.30	2.95	184.70	178.06	105.12	27.842
1,800.00	1,800.00	0.00	0.00	3.91	1,796.31	1,799.89	-48.08	178.43	3.17	184.80	177.72	105.08	26.133
1,900.00	1,900.00	0.00	0.00	4.13	1,896.63	1,900.21	-47.79	178.52	3.36	184.81	177.32	104.99	24.677
2,000.00	2,000.00	0.00	0.00	4.35	1,997.04	2,000.62	-47.25	178.39	3.53	184.54	176.65	104.84	23.407
2,100.00	2,100.00	0.00	0.00	4.58	2,097.04	2,100.62	-46.61	178.19	3.70	184.19	175.91	104.66	22.248
2,200.00	2,200.00	0.00	0.00	4.80	2,197.30	2,200.87	-45.95	177.99	3.88	183.82	175.14	104.47	21.168
2,300.00	2,300.00	0.00	0.00	5.03	2,297.89	2,301.46	-45.04	177.57	4.06	183.20	174.10	104.23	20.148
2,400.00	2,400.00	0.00	0.00	5.25	2,397.89	2,401.45	-43.95	176.96	4.25	182.34	172.83	103.95	19.183
2,500.00	2,500.00	0.00	0.00	5.48	2,497.32	2,500.88	-42.85	176.55	4.45	181.68	171.75	103.64	18.292
2,547.91	2,547.91	0.00	0.00	5.59	2,544.35	2,547.91	-42.34	176.52	4.55	181.53	171.38	103.49	17.900
2,600.00	2,600.00	0.00	0.00	5.70	2,594.86	2,598.41	-41.83	176.87	4.67	181.75	171.38	103.31	17.528
2,700.00	2,700.00	0.00	0.00	5.93	2,692.52	2,696.05	-41.36	178.54	4.87	183.31	172.51	103.04	16.977
2,800.00	2,800.00	0.00	0.00	6.15	2,792.50	2,796.00	-41.41	180.85	5.08	185.57	174.35	102.90	16.527
2,900.00	2,900.00	0.00	0.00	6.38	2,894.48	2,897.96	-40.19	182.87	5.31	187.25	175.56	102.40	16.022

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #2H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
3,000.00	3,000.00	0.00	0.00	6.60	2,995.25	2,998.69	-37.77	184.28	5.55	188.12	175.97	101.58	15.481
3,100.00	3,100.00	0.00	0.00	6.83	3,096.57	3,099.95	-34.35	185.32	5.79	188.48	175.86	100.50	14.940
3,200.00	3,200.00	0.00	0.00	7.05	3,197.29	3,200.59	-30.42	185.87	6.02	188.34	175.27	99.30	14.404
3,300.00	3,300.00	0.00	0.00	7.28	3,298.28	3,301.49	-26.33	185.97	6.26	187.83	174.30	98.06	13.880
3,400.00	3,400.00	0.00	0.00	7.50	3,399.96	3,403.09	-22.36	185.19	6.48	186.56	172.58	96.89	13.343
3,500.00	3,500.00	0.00	0.00	7.73	3,499.78	3,502.84	-18.81	183.76	6.70	184.75	170.32	95.84	12.808
3,596.45	3,596.45	0.00	0.00	7.94	3,593.45	3,596.45	-15.55	183.32	6.91	183.98	169.13	94.85	12.383
3,600.00	3,600.00	0.00	0.00	7.95	3,596.89	3,599.89	-15.43	183.34	6.92	183.98	169.11	94.81	12.370
3,700.00	3,700.00	0.00	0.00	8.18	3,694.43	3,697.37	-12.27	184.42	7.16	184.85	169.51	93.81	12.053
3,800.00	3,800.00	0.00	0.00	8.40	3,793.35	3,796.23	-9.63	186.31	7.41	186.60	170.79	92.96	11.807
3,900.00	3,900.00	0.00	0.00	8.63	3,893.19	3,896.03	-7.59	188.56	7.65	188.76	172.49	92.30	11.600
4,000.00	4,000.00	0.00	0.00	8.85	3,993.61	3,996.41	-5.57	190.60	7.90	190.71	173.97	91.67	11.389
4,100.00	4,100.00	0.00	0.00	9.07	4,092.24	4,095.00	-3.62	192.68	8.14	192.78	175.57	91.08	11.201
4,200.00	4,200.00	0.00	0.00	9.30	4,189.39	4,192.07	-1.33	195.91	8.38	196.08	178.41	90.39	11.100
4,300.00	4,300.00	0.00	0.00	9.52	4,286.20	4,288.73	1.03	200.58	8.61	200.90	182.79	89.71	11.096
4,400.00	4,400.00	0.00	0.00	9.75	4,382.94	4,385.26	2.89	206.73	8.83	207.27	188.74	89.20	11.182
4,500.00	4,500.00	0.00	0.00	9.97	4,480.81	4,482.84	3.94	214.20	9.04	214.93	195.96	88.95	11.334
4,600.00	4,600.00	0.00	0.00	10.20	4,579.43	4,581.12	3.90	222.32	9.25	223.16	203.77	89.00	11.511
4,700.00	4,700.00	0.00	0.00	10.42	4,679.95	4,681.28	3.04	230.77	9.46	231.55	211.73	89.25	11.683
4,800.00	4,800.00	0.00	0.00	10.65	4,781.86	4,782.86	0.79	238.58	9.65	239.20	218.95	89.81	11.814
4,900.00	4,900.00	0.00	0.00	10.87	4,884.01	4,884.73	-2.55	245.39	9.83	245.88	225.22	90.60	11.900
5,000.00	5,000.00	0.00	0.00	11.10	4,984.85	4,985.35	-5.78	251.38	10.01	251.88	230.81	91.32	11.955
5,100.00	5,100.00	0.00	0.00	11.32	5,086.23	5,086.55	-7.82	256.94	10.21	257.41	235.92	91.74	11.975
5,200.00	5,200.00	0.00	0.00	11.55	5,188.62	5,188.82	-8.31	261.78	10.44	262.15	240.20	91.82	11.942
5,300.00	5,300.00	0.00	0.00	11.77	5,291.08	5,291.20	-7.30	265.72	10.68	265.96	243.54	91.57	11.858
5,400.00	5,400.00	0.00	0.00	12.00	5,393.05	5,393.10	-5.27	268.59	10.94	268.73	245.82	91.12	11.729
5,500.00	5,500.00	0.00	0.00	12.22	5,492.55	5,492.57	-4.26	271.35	11.18	271.48	248.11	90.90	11.614
5,600.00	5,600.00	0.00	0.00	12.45	5,593.27	5,593.25	-4.75	273.90	11.40	274.03	250.20	90.99	11.503
5,700.00	5,700.00	0.00	0.00	12.67	5,693.75	5,693.69	-4.94	276.34	11.63	276.45	252.18	91.02	11.389
5,800.00	5,800.00	0.00	0.00	12.90	5,794.32	5,794.24	-4.02	278.48	11.88	278.57	253.82	90.83	11.257
5,900.00	5,900.00	0.00	0.00	13.12	5,894.36	5,894.26	-3.22	280.56	12.13	280.63	255.41	90.66	11.126
6,000.00	6,000.00	0.00	0.00	13.35	5,995.57	5,995.45	-2.91	282.49	12.37	282.54	256.86	90.59	11.000

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #2H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
6,100.00	6,100.00	0.00	0.00	13.57	6,098.18	6,098.05	-3.55	283.70	12.56	283.73	257.63	90.72	10.871
6,200.00	6,200.00	0.00	0.00	13.80	6,198.48	6,198.35	-4.32	284.21	12.71	284.25	257.77	90.87	10.734
6,300.00	6,300.00	0.00	0.00	14.02	6,298.21	6,298.07	-4.83	284.84	12.90	284.89	258.00	90.97	10.596
6,400.00	6,400.00	0.00	0.00	14.24	6,397.89	6,397.75	-5.05	285.56	13.11	285.62	258.29	91.01	10.451
6,500.00	6,500.00	0.00	0.00	14.47	6,497.84	6,497.70	-4.99	286.37	13.35	286.42	258.62	91.00	10.305
6,600.00	6,600.00	0.00	0.00	14.69	6,598.21	6,598.07	-4.74	287.11	13.61	287.16	258.89	90.95	10.157
6,700.00	6,700.00	0.00	0.00	14.92	6,698.70	6,698.55	-4.46	287.71	13.86	287.75	258.99	90.89	10.007
6,800.00	6,800.00	0.00	0.00	15.14	6,798.46	6,798.31	-4.18	288.27	14.12	288.30	259.07	90.83	9.862
6,900.00	6,900.00	0.00	0.00	15.37	6,898.49	6,898.34	-3.89	288.89	14.37	288.92	259.21	90.77	9.724
7,000.00	7,000.00	0.00	0.00	15.59	6,999.83	6,999.67	-3.49	289.23	14.61	289.25	259.08	90.69	9.586
7,100.00	7,100.00	0.00	0.00	15.82	7,100.55	7,100.39	-3.15	289.20	14.79	289.21	258.63	90.63	9.457
7,200.00	7,200.00	0.00	0.00	16.04	7,200.74	7,200.58	-2.84	289.03	14.94	289.04	258.08	90.56	9.337
7,300.00	7,300.00	0.00	0.00	16.27	7,301.36	7,301.20	-2.50	288.77	15.08	288.78	257.46	90.50	9.220
7,400.00	7,400.00	0.00	0.00	16.49	7,402.81	7,402.64	-2.01	288.11	15.20	288.13	256.47	90.40	9.101
7,500.00	7,500.00	0.00	0.00	16.72	7,503.44	7,503.27	-1.57	287.00	15.29	287.02	255.04	90.31	8.977
7,600.00	7,600.00	0.00	0.00	16.94	7,603.11	7,602.93	-1.41	285.91	15.36	285.93	253.66	90.28	8.860
7,700.00	7,700.00	0.00	0.00	17.17	7,702.84	7,702.66	-1.60	284.94	15.42	284.96	252.40	90.32	8.752
7,800.00	7,800.00	0.00	0.00	17.39	7,801.96	7,801.78	-2.36	284.12	15.48	284.14	251.30	90.48	8.651
7,900.00	7,900.00	0.00	0.00	17.62	7,901.62	7,901.43	-3.55	283.59	15.55	283.62	250.48	90.72	8.559
8,000.00	8,000.00	0.00	0.00	17.84	8,001.48	8,001.28	-4.80	283.09	15.62	283.14	249.70	90.97	8.469
8,081.79	8,081.79	0.00	0.00	18.02	8,082.01	8,081.79	-5.86	282.85	15.69	282.91	249.22	91.19	8.397
8,100.00	8,100.00	0.00	0.00	18.07	8,099.86	8,099.64	-6.14	282.86	15.71	282.93	249.18	91.24	8.383
8,200.00	8,200.00	0.00	0.00	18.29	8,197.06	8,196.83	-7.79	283.40	15.83	283.53	249.42	91.57	8.314
8,300.00	8,300.00	0.00	0.00	18.52	8,300.85	8,300.60	-9.64	283.97	15.97	284.13	249.67	91.95	8.245
8,400.00	8,400.00	0.00	0.00	18.74	8,403.94	8,403.67	-11.04	283.13	16.06	283.37	248.60	92.23	8.150
8,500.00	8,500.00	0.00	0.00	18.96	8,503.17	8,502.90	-11.86	281.97	16.13	282.24	247.17	92.41	8.048
8,600.00	8,600.00	0.00	0.00	19.19	8,602.42	8,602.14	-12.48	281.08	16.21	281.36	245.99	92.54	7.954
8,700.00	8,700.00	0.00	0.00	19.41	8,702.51	8,702.23	-13.12	280.27	16.29	280.58	244.90	92.68	7.864
8,800.00	8,800.00	0.00	0.00	19.64	8,802.01	8,801.72	-13.92	279.46	16.38	279.82	243.82	92.85	7.773
8,887.33	8,887.33	0.00	0.00	19.84	8,887.63	8,887.33	-14.87	279.14	16.48	279.54	243.25	93.05	7.703
8,900.00	8,900.00	0.00	0.00	19.86	8,900.00	8,899.71	-15.02	279.14	16.49	279.55	243.21	93.08	7.693
9,000.00	9,000.00	0.00	0.00	20.09	8,998.99	8,998.68	-16.20	279.52	16.64	280.00	243.29	93.32	7.629

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #2H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
9,100.00	9,100.00	0.00	0.00	20.31	9,100.52	9,100.21	-17.19	279.62	16.77	280.15	243.08	93.52	7.558
9,200.00	9,200.00	0.00	0.00	20.54	9,201.25	9,200.94	-17.78	279.36	16.89	279.93	242.52	93.64	7.483
9,300.00	9,300.00	0.00	0.00	20.76	9,301.81	9,301.49	-18.29	278.89	17.00	279.50	241.76	93.75	7.406
9,400.00	9,400.00	0.00	0.00	20.99	9,402.33	9,402.01	-18.63	278.23	17.11	278.86	240.79	93.83	7.325
9,500.00	9,500.00	0.00	0.00	21.21	9,502.68	9,502.36	-18.39	277.45	17.23	278.07	239.65	93.79	7.239
9,600.00	9,600.00	0.00	0.00	21.44	9,606.90	9,606.57	-18.15	276.03	17.35	276.70	237.95	93.76	7.140
9,700.00	9,700.00	0.00	0.00	21.66	9,708.00	9,707.62	-17.66	273.23	17.47	273.91	234.81	93.70	7.005
9,800.00	9,800.00	0.00	0.00	21.89	9,807.26	9,806.85	-16.86	270.63	17.60	271.24	231.79	93.56	6.875
9,900.00	9,899.96	1.63	-0.03	22.11	9,906.62	9,906.17	-16.04	268.28	17.68	268.97	229.21	94.96	6.765
9,953.48	9,952.89	9.02	-0.17	22.23	9,959.06	9,958.58	-14.73	267.16	17.69	268.45	228.57	96.30	6.731
10,000.00	9,998.03	20.22	-0.39	22.34	10,003.72	10,003.03	-10.55	266.79	17.69	268.99	229.01	97.66	6.728
10,100.00	10,090.09	58.79	-1.13	22.55	10,119.68	10,114.80	19.28	265.96	17.72	271.12	231.02	100.85	6.761
10,130.26	10,116.14	74.17	-1.43	22.61	10,153.43	10,145.87	32.38	264.66	17.73	270.98	230.84	101.82	6.750
10,200.00	10,172.12	115.66	-2.23	22.76	10,217.19	10,202.48	61.65	263.44	17.75	272.80	232.47	103.72	6.765
10,300.00	10,240.53	188.33	-3.63	23.04	10,309.70	10,279.20	113.11	266.31	17.81	282.88	242.27	106.49	6.966
10,400.00	10,292.33	273.64	-5.27	23.39	10,425.86	10,363.76	192.15	273.41	18.00	299.00	258.20	110.15	7.328
10,500.00	10,325.26	367.85	-7.08	23.84	10,550.18	10,436.54	292.70	277.24	18.37	314.44	273.41	114.15	7.664
10,600.00	10,337.88	466.84	-8.99	24.39	10,702.45	10,499.65	430.75	276.35	19.07	329.99	288.70	119.75	7.992
10,700.00	10,338.00	566.82	-10.92	25.04	10,835.27	10,521.36	561.45	272.24	19.93	337.38	295.29	122.94	8.014
10,800.00	10,338.00	666.81	-12.84	25.81	10,958.96	10,521.40	685.06	268.95	20.90	336.71	293.21	123.03	7.741
10,900.00	10,338.00	766.79	-14.77	26.68	11,062.31	10,518.76	788.17	262.41	21.72	331.60	286.74	123.08	7.392
11,000.00	10,338.00	866.77	-16.69	27.64	11,158.84	10,518.61	884.46	255.70	22.46	327.31	281.15	123.52	7.091
11,100.00	10,338.00	966.75	-18.62	28.69	11,250.48	10,519.81	975.92	250.09	23.22	324.57	277.07	124.07	6.833
11,200.00	10,338.00	1,066.73	-20.54	29.82	11,348.56	10,522.40	1,073.88	245.87	24.15	324.08	275.07	124.68	6.612
11,300.00	10,338.00	1,166.71	-22.47	31.01	11,449.69	10,524.11	1,174.91	241.68	25.23	323.24	272.52	125.16	6.373
11,400.00	10,338.00	1,266.69	-24.40	32.26	11,548.31	10,525.21	1,273.45	238.03	26.27	322.43	269.96	125.49	6.145
11,500.00	10,338.00	1,366.68	-26.32	33.57	11,652.30	10,526.35	1,377.35	233.95	27.40	321.45	267.12	125.88	5.917
11,600.00	10,338.00	1,466.66	-28.25	34.93	11,748.15	10,526.86	1,473.13	230.26	28.49	320.21	264.02	126.14	5.698
11,700.00	10,338.00	1,566.64	-30.17	36.32	11,848.46	10,528.22	1,573.37	226.79	29.66	319.78	261.64	126.50	5.501
11,800.00	10,338.00	1,666.62	-32.10	37.75	11,953.18	10,528.77	1,678.01	222.70	30.99	318.50	258.26	126.80	5.287
11,900.00	10,338.00	1,766.60	-34.02	39.22	12,055.67	10,527.79	1,780.40	218.21	32.31	315.97	253.53	126.94	5.061
12,000.00	10,338.00	1,866.58	-35.95	40.72	12,152.51	10,527.37	1,877.13	213.79	33.49	313.59	249.09	127.15	4.862

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #2H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
12,100.00	10,338.00	1,966.56	-37.87	42.24	12,248.45	10,528.24	1,972.99	210.00	34.63	312.53	246.05	127.50	4.701
12,200.00	10,338.00	2,066.55	-39.80	43.79	12,349.41	10,528.71	2,073.90	206.91	35.92	311.91	243.24	127.69	4.542
12,300.00	10,338.00	2,166.53	-41.73	45.36	12,452.28	10,528.46	2,176.71	203.44	37.29	310.62	239.63	127.83	4.376
12,400.00	10,338.00	2,266.51	-43.65	46.94	12,554.88	10,527.43	2,279.23	199.40	38.70	308.41	235.06	127.91	4.204
12,500.00	10,338.00	2,366.49	-45.58	48.55	12,654.95	10,525.82	2,379.19	195.15	40.06	305.59	229.86	127.94	4.035
12,600.00	10,338.00	2,466.47	-47.50	50.17	12,749.85	10,525.44	2,474.01	191.17	41.29	303.57	225.66	128.13	3.896
12,636.89	10,338.00	2,503.35	-48.21	50.77	12,783.80	10,525.86	2,507.94	189.98	41.72	303.39	224.74	128.26	3.857
12,700.00	10,338.00	2,566.45	-49.43	51.80	12,846.80	10,527.02	2,570.90	188.08	42.54	303.58	223.59	128.51	3.795
12,800.00	10,338.00	2,666.44	-51.35	53.45	12,947.22	10,527.67	2,671.28	185.26	43.88	303.28	221.02	128.71	3.687
12,810.17	10,338.00	2,676.61	-51.55	53.62	12,957.11	10,527.78	2,681.16	184.97	44.01	303.28	220.79	128.74	3.677
12,900.00	10,338.00	2,766.42	-53.28	55.11	13,048.29	10,529.19	2,772.29	182.12	45.24	303.32	218.87	129.08	3.592
13,000.00	10,338.00	2,866.40	-55.20	56.78	13,152.67	10,529.10	2,876.61	178.61	46.69	302.15	215.30	129.24	3.479
13,100.00	10,338.00	2,966.38	-57.13	58.46	13,251.61	10,527.53	2,975.48	175.47	48.06	300.17	210.81	129.16	3.359
13,200.00	10,338.00	3,066.36	-59.06	60.15	13,347.85	10,527.44	3,071.67	172.52	49.33	299.24	207.59	129.28	3.265
13,221.14	10,338.00	3,087.49	-59.46	60.51	13,368.14	10,527.72	3,091.95	171.86	49.60	299.21	207.12	129.35	3.249
13,300.00	10,338.00	3,166.34	-60.98	61.85	13,443.17	10,529.15	3,166.94	169.86	50.60	299.71	206.00	129.63	3.198
13,400.00	10,338.00	3,266.32	-62.91	63.55	13,542.92	10,530.98	3,266.66	168.39	51.98	301.24	205.24	129.84	3.138
13,500.00	10,338.00	3,366.31	-64.83	65.27	13,643.73	10,531.77	3,367.46	167.38	53.40	302.45	203.92	129.85	3.070
13,600.00	10,338.00	3,466.29	-66.76	66.98	13,744.62	10,531.23	3,468.35	167.15	54.84	303.40	202.06	129.56	2.994
13,700.00	10,338.00	3,566.27	-68.68	68.71	13,839.30	10,530.72	3,563.02	167.67	56.15	304.99	200.91	129.21	2.930
13,800.00	10,338.00	3,666.25	-70.61	70.44	13,941.76	10,530.90	3,665.48	168.58	57.58	307.28	200.29	128.89	2.872
13,900.00	10,338.00	3,766.23	-72.53	72.17	14,046.36	10,529.22	3,770.06	169.26	59.11	308.29	198.04	128.34	2.796
14,000.00	10,338.00	3,866.21	-74.46	73.91	14,144.51	10,527.45	3,868.19	169.58	60.47	308.95	195.64	127.82	2.727
14,100.00	10,338.00	3,966.19	-76.39	75.66	14,243.65	10,527.62	3,967.33	168.83	61.80	309.98	194.02	127.72	2.673
14,200.00	10,338.00	4,066.18	-78.31	77.40	14,343.01	10,527.93	4,066.69	168.22	63.19	311.21	192.55	127.62	2.623
14,300.00	10,338.00	4,166.16	-80.24	79.16	14,442.57	10,528.37	4,166.24	167.96	64.59	312.79	191.39	127.49	2.576
14,400.00	10,338.00	4,266.14	-82.16	80.91	14,545.04	10,528.37	4,268.71	167.20	66.03	313.73	189.49	127.36	2.525
14,500.00	10,338.00	4,366.12	-84.09	82.67	14,645.44	10,529.25	4,369.09	165.60	67.46	314.53	187.74	127.45	2.481
14,600.00	10,338.00	4,466.10	-86.01	84.43	14,749.35	10,529.39	4,472.98	163.53	68.96	314.56	185.08	127.48	2.429
14,661.50	10,338.00	4,527.59	-87.20	85.52	14,811.03	10,528.84	4,534.64	162.22	69.87	314.13	182.91	127.41	2.394
14,700.00	10,338.00	4,566.08	-87.94	86.20	14,806.00	10,528.88	4,529.61	162.32	69.80	316.85	186.37	127.42	2.428
14,703.36	10,338.00	4,569.44	-88.00	86.26	14,806.00	10,528.88	4,529.61	162.32	69.80	317.31	186.96	127.42	2.434

HALLIBURTON

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)
Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #2H - Wellbore #1 - Surveys
Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)
Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #3H - Wellbore #1 - Surveys
Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.00	0.00	0.08	80.52	106.92	-37.71	1,495.04	0.08	1,495.53	1,495.36	91.44	8,814.411
200.00	200.00	0.00	0.00	0.31	183.25	209.65	-37.36	1,494.44	0.32	1,494.94	1,494.31	91.43	2,365.831
300.00	300.00	0.00	0.00	0.53	300.21	326.60	-36.84	1,493.12	0.63	1,493.81	1,492.65	91.41	1,281.974
400.00	400.00	0.00	0.00	0.76	401.25	427.62	-36.54	1,491.29	0.89	1,492.00	1,490.35	91.40	903.279
500.00	500.00	0.00	0.00	0.98	501.78	528.13	-36.24	1,489.42	1.15	1,490.13	1,487.99	91.39	696.477
600.00	600.00	0.00	0.00	1.21	598.53	624.86	-36.23	1,487.70	1.40	1,488.35	1,485.74	91.40	569.812
700.00	700.00	0.00	0.00	1.43	703.69	730.01	-36.30	1,485.77	1.68	1,486.51	1,483.40	91.40	478.154
800.00	800.00	0.00	0.00	1.66	798.85	825.15	-36.27	1,484.01	1.93	1,484.67	1,481.08	91.40	414.376
900.00	900.00	0.00	0.00	1.88	900.21	926.49	-36.63	1,482.24	2.18	1,482.93	1,478.86	91.42	364.764
1,000.00	1,000.00	0.00	0.00	2.11	993.62	1,019.90	-37.27	1,480.76	2.41	1,481.36	1,476.85	91.44	327.903
1,100.00	1,100.00	0.00	0.00	2.33	1,094.92	1,121.18	-37.83	1,479.36	2.67	1,480.00	1,475.00	91.46	296.220
1,200.00	1,200.00	0.00	0.00	2.56	1,190.13	1,216.39	-38.36	1,478.13	2.90	1,478.71	1,473.26	91.49	271.037
1,300.00	1,300.00	0.00	0.00	2.78	1,292.66	1,318.90	-39.26	1,476.91	3.15	1,477.55	1,471.62	91.52	249.298
1,400.00	1,400.00	0.00	0.00	3.01	1,401.51	1,427.73	-40.06	1,475.18	3.42	1,475.98	1,469.56	91.56	229.661
1,500.00	1,500.00	0.00	0.00	3.23	1,502.83	1,529.04	-40.69	1,473.21	3.69	1,474.06	1,467.14	91.58	213.108
1,600.00	1,600.00	0.00	0.00	3.46	1,600.35	1,626.54	-41.31	1,471.36	3.95	1,472.18	1,464.78	91.61	199.018
1,700.00	1,700.00	0.00	0.00	3.68	1,701.24	1,727.41	-41.65	1,469.50	4.21	1,470.35	1,462.46	91.62	186.407
1,800.00	1,800.00	0.00	0.00	3.91	1,801.99	1,828.14	-41.73	1,467.59	4.48	1,468.46	1,460.08	91.63	175.245
1,900.00	1,900.00	0.00	0.00	4.13	1,899.48	1,925.61	-41.74	1,465.81	4.74	1,466.63	1,457.77	91.63	165.496
2,000.00	2,000.00	0.00	0.00	4.35	1,997.28	2,023.40	-41.59	1,464.18	4.99	1,464.96	1,455.61	91.63	156.791
2,100.00	2,100.00	0.00	0.00	4.58	2,097.21	2,123.31	-41.15	1,462.60	5.25	1,463.36	1,453.54	91.61	148.976
2,200.00	2,200.00	0.00	0.00	4.80	2,198.81	2,224.89	-40.24	1,460.95	5.50	1,461.72	1,451.42	91.58	142.001
2,300.00	2,300.00	0.00	0.00	5.03	2,298.39	2,324.45	-38.92	1,459.30	5.72	1,460.03	1,449.28	91.53	135.851

HALLIBURTON

Endurance Resources, LLC
Lea County, NM (NAD 83)

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #3H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)				
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor	
2,400.00	2,400.00	0.00	0.00	5.25	2,389.75	2,415.79	-37.25	1,458.08	5.91	1,458.64	1,447.49	91.46	130.740	
2,500.00	2,500.00	0.00	0.00	5.48	2,491.06	2,517.06	-34.55	1,457.05	6.09	1,457.55	1,445.99	91.36	126.041	
2,600.00	2,600.00	0.00	0.00	5.70	2,583.99	2,609.94	-31.37	1,456.23	6.25	1,456.60	1,444.66	91.23	121.947	
2,700.00	2,700.00	0.00	0.00	5.93	2,678.53	2,704.40	-27.86	1,455.85	6.40	1,456.12	1,443.81	91.10	118.222	
2,757.93	2,757.93	0.00	0.00	6.06	2,732.10	2,757.93	-25.81	1,455.79	6.47	1,456.02	1,443.50	91.02	116.242	
2,800.00	2,800.00	0.00	0.00	6.15	2,770.30	2,796.11	-24.34	1,455.87	6.53	1,456.08	1,443.40	90.96	114.882	
2,900.00	2,900.00	0.00	0.00	6.38	2,864.62	2,890.35	-20.74	1,456.40	6.66	1,456.58	1,443.56	90.82	111.808	
3,000.00	3,000.00	0.00	0.00	6.60	2,959.91	2,985.57	-17.07	1,457.23	6.78	1,457.40	1,444.02	90.67	108.941	
3,100.00	3,100.00	0.00	0.00	6.83	3,057.06	3,082.64	-13.18	1,458.36	6.91	1,458.52	1,444.79	90.52	106.220	
3,200.00	3,200.00	0.00	0.00	7.05	3,155.97	3,181.46	-9.35	1,459.61	7.04	1,459.76	1,445.67	90.37	103.612	
3,300.00	3,300.00	0.00	0.00	7.28	3,254.81	3,280.24	-6.07	1,460.92	7.18	1,461.06	1,446.62	90.24	101.140	
3,400.00	3,400.00	0.00	0.00	7.50	3,355.09	3,380.47	-3.06	1,462.30	7.31	1,462.43	1,447.62	90.12	98.762	
3,500.00	3,500.00	0.00	0.00	7.73	3,454.43	3,479.76	-0.26	1,463.62	7.45	1,463.76	1,448.59	90.01	96.496	
3,600.00	3,600.00	0.00	0.00	7.95	3,551.37	3,576.66	1.94	1,465.05	7.58	1,465.24	1,449.71	89.92	94.400	
3,700.00	3,700.00	0.00	0.00	8.18	3,651.35	3,676.61	4.01	1,466.70	7.70	1,466.89	1,451.02	89.84	92.412	
3,800.00	3,800.00	0.00	0.00	8.40	3,751.89	3,777.12	5.67	1,468.23	7.83	1,468.42	1,452.19	89.78	90.507	
3,900.00	3,900.00	0.00	0.00	8.63	3,848.53	3,873.74	7.15	1,469.82	7.95	1,470.07	1,453.50	89.72	88.726	
4,000.00	4,000.00	0.00	0.00	8.85	3,938.40	3,963.58	8.60	1,471.62	8.06	1,472.10	1,455.20	89.67	87.105	
4,100.00	4,100.00	0.00	0.00	9.07	4,021.78	4,046.91	10.19	1,474.15	8.16	1,475.14	1,457.92	89.60	85.676	
4,200.00	4,200.00	0.00	0.00	9.30	4,106.45	4,131.48	12.05	1,477.65	8.26	1,479.28	1,461.75	89.53	84.373	
4,300.00	4,300.00	0.00	0.00	9.52	4,204.06	4,228.95	14.52	1,482.23	8.37	1,484.01	1,466.13	89.44	83.023	
4,400.00	4,400.00	0.00	0.00	9.75	4,314.10	4,338.86	17.23	1,487.10	8.52	1,488.46	1,470.21	89.34	81.568	
4,500.00	4,500.00	0.00	0.00	9.97	4,413.21	4,437.86	19.02	1,491.19	8.64	1,492.60	1,474.00	89.27	80.255	
4,600.00	4,600.00	0.00	0.00	10.20	4,509.05	4,533.60	19.90	1,495.36	8.75	1,496.97	1,478.04	89.24	79.068	
4,700.00	4,700.00	0.00	0.00	10.42	4,627.83	4,652.30	20.21	1,499.79	8.89	1,500.68	1,481.38	89.23	77.764	
4,800.00	4,800.00	0.00	0.00	10.65	4,733.98	4,758.40	20.20	1,502.90	9.01	1,503.62	1,483.97	89.23	76.539	
4,900.00	4,900.00	0.00	0.00	10.87	4,842.04	4,866.43	20.17	1,505.72	9.14	1,506.23	1,486.23	89.23	75.301	
5,000.00	5,000.00	0.00	0.00	11.10	4,952.86	4,977.23	20.37	1,507.67	9.28	1,507.98	1,487.60	89.23	73.996	
5,100.00	5,100.00	0.00	0.00	11.32	5,054.08	5,078.44	20.67	1,509.11	9.43	1,509.41	1,488.66	89.22	72.730	
5,200.00	5,200.00	0.00	0.00	11.55	5,160.77	5,185.12	21.05	1,510.52	9.60	1,510.74	1,489.59	89.20	71.451	
5,300.00	5,300.00	0.00	0.00	11.77	5,267.86	5,292.20	21.17	1,511.25	9.77	1,511.41	1,489.88	89.20	70.177	

HALLIBURTON

Endurance Resources, LLC
Lea County, NM (NAD 83)

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #3H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
		+N/-S (usft)	+E/-W (usft)				+N/-S (usft)	+E/-W (usft)					
5,400.00	5,400.00	0.00	0.00	12.00	5,366.58	5,390.93	21.26	1,511.74	9.92	1,511.92	1,490.00	89.19	68.979
5,500.00	5,500.00	0.00	0.00	12.22	5,467.34	5,491.69	21.26	1,512.37	10.08	1,512.55	1,490.25	89.19	67.834
5,600.00	5,600.00	0.00	0.00	12.45	5,564.47	5,588.81	21.20	1,512.94	10.22	1,513.13	1,490.46	89.20	66.749
5,700.00	5,700.00	0.00	0.00	12.67	5,668.78	5,693.12	21.21	1,513.68	10.41	1,513.85	1,490.77	89.20	65.602
5,800.00	5,800.00	0.00	0.00	12.90	5,767.48	5,791.82	21.64	1,514.06	10.61	1,514.24	1,490.73	89.18	64.425
5,900.00	5,900.00	0.00	0.00	13.12	5,872.97	5,897.30	22.02	1,514.56	10.84	1,514.73	1,490.77	89.17	63.227
6,000.00	6,000.00	0.00	0.00	13.35	5,969.90	5,994.24	22.09	1,514.72	11.04	1,514.89	1,490.50	89.16	62.121
6,100.00	6,100.00	0.00	0.00	13.57	6,072.21	6,096.55	22.29	1,515.13	11.26	1,515.30	1,490.47	89.16	61.036
6,200.00	6,200.00	0.00	0.00	13.80	6,171.98	6,196.32	22.47	1,515.30	11.46	1,515.47	1,490.22	89.15	60.010
6,300.00	6,300.00	0.00	0.00	14.02	6,270.17	6,294.50	22.50	1,515.61	11.64	1,515.79	1,490.12	89.15	59.070
6,400.00	6,400.00	0.00	0.00	14.24	6,375.33	6,399.66	22.63	1,515.87	11.85	1,516.04	1,489.95	89.14	58.095
6,445.63	6,445.63	0.00	0.00	14.35	6,421.30	6,445.63	22.74	1,515.85	11.95	1,516.02	1,489.73	89.14	57.653
6,500.00	6,500.00	0.00	0.00	14.47	6,472.11	6,496.44	22.85	1,515.91	12.06	1,516.09	1,489.56	89.14	57.153
6,600.00	6,600.00	0.00	0.00	14.69	6,575.30	6,599.63	22.98	1,516.14	12.25	1,516.31	1,489.37	89.13	56.273
6,657.19	6,657.19	0.00	0.00	14.82	6,632.86	6,657.19	23.00	1,516.12	12.36	1,516.29	1,489.11	89.13	55.787
6,700.00	6,700.00	0.00	0.00	14.92	6,674.01	6,698.34	23.04	1,516.14	12.44	1,516.31	1,488.96	89.13	55.434
6,800.00	6,800.00	0.00	0.00	15.14	6,774.18	6,798.52	23.26	1,516.27	12.66	1,516.45	1,488.65	89.12	54.552
6,900.00	6,900.00	0.00	0.00	15.37	6,880.58	6,904.91	23.35	1,516.19	12.85	1,516.38	1,488.16	89.12	53.737
7,000.00	7,000.00	0.00	0.00	15.59	6,979.76	7,004.09	22.95	1,515.85	12.96	1,516.03	1,487.48	89.13	53.094
7,100.00	7,100.00	0.00	0.00	15.82	7,076.26	7,100.58	22.53	1,515.70	13.06	1,515.87	1,487.00	89.15	52.504
7,200.00	7,200.00	0.00	0.00	16.04	7,178.23	7,202.56	21.94	1,515.65	13.15	1,515.81	1,486.62	89.17	51.919
7,300.00	7,300.00	0.00	0.00	16.27	7,283.99	7,308.31	21.16	1,515.30	13.27	1,515.47	1,485.93	89.20	51.308
7,400.00	7,400.00	0.00	0.00	16.49	7,384.51	7,408.83	20.57	1,514.71	13.39	1,514.87	1,484.99	89.22	50.697
7,500.00	7,500.00	0.00	0.00	16.72	7,494.54	7,518.85	19.59	1,513.77	13.53	1,514.01	1,483.78	89.26	50.068
7,600.00	7,600.00	0.00	0.00	16.94	7,600.17	7,624.47	18.63	1,512.26	13.67	1,512.57	1,481.97	89.29	49.422
7,700.00	7,700.00	0.00	0.00	17.17	7,695.40	7,719.68	17.81	1,510.88	13.80	1,511.11	1,480.15	89.32	48.799
7,800.00	7,800.00	0.00	0.00	17.39	7,788.72	7,813.00	17.09	1,509.88	13.93	1,510.03	1,478.71	89.35	48.209
7,900.00	7,900.00	0.00	0.00	17.62	7,896.37	7,920.63	16.44	1,508.74	14.09	1,508.97	1,477.27	89.38	47.592
8,000.00	8,000.00	0.00	0.00	17.84	7,996.37	8,020.63	15.97	1,507.37	14.25	1,507.59	1,475.50	89.39	46.978
8,100.00	8,100.00	0.00	0.00	18.07	8,096.95	8,121.19	15.23	1,505.98	14.41	1,506.21	1,473.73	89.42	46.382
8,200.00	8,200.00	0.00	0.00	18.29	8,186.16	8,210.39	14.30	1,505.04	14.54	1,505.15	1,472.32	89.46	45.845
8,300.00	8,300.00	0.00	0.00	18.52	8,292.23	8,316.45	12.90	1,504.20	14.69	1,504.34	1,471.14	89.51	45.302

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #3H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
8,400.00	8,400.00	0.00	0.00	18.74	8,396.29	8,420.49	11.75	1,502.92	14.86	1,503.10	1,469.51	89.55	44.745
8,500.00	8,500.00	0.00	0.00	18.96	8,495.26	8,519.45	10.93	1,501.60	15.02	1,501.77	1,467.79	89.58	44.194
8,600.00	8,600.00	0.00	0.00	19.19	8,601.55	8,625.72	10.09	1,500.02	15.20	1,500.28	1,465.89	89.61	43.630
8,700.00	8,700.00	0.00	0.00	19.41	8,698.28	8,722.44	9.32	1,498.48	15.37	1,498.67	1,463.89	89.64	43.088
8,800.00	8,800.00	0.00	0.00	19.64	8,794.88	8,819.03	8.49	1,497.15	15.54	1,497.29	1,462.12	89.67	42.567
8,900.00	8,900.00	0.00	0.00	19.86	8,902.59	8,926.72	7.46	1,495.52	15.73	1,495.78	1,460.19	89.71	42.032
9,000.00	9,000.00	0.00	0.00	20.09	8,996.48	9,020.60	6.62	1,494.05	15.90	1,494.21	1,458.23	89.75	41.527
9,100.00	9,100.00	0.00	0.00	20.31	9,101.45	9,125.55	5.91	1,492.45	16.09	1,492.68	1,456.28	89.77	41.007
9,200.00	9,200.00	0.00	0.00	20.54	9,209.17	9,233.25	5.24	1,490.35	16.30	1,490.73	1,453.90	89.80	40.476
9,300.00	9,300.00	0.00	0.00	20.76	9,323.98	9,348.01	4.01	1,487.17	16.52	1,487.95	1,450.68	89.85	39.924
9,400.00	9,400.00	0.00	0.00	20.99	9,430.01	9,453.97	2.58	1,483.50	16.73	1,484.49	1,446.79	89.90	39.380
9,500.00	9,500.00	0.00	0.00	21.21	9,535.59	9,559.45	0.61	1,479.53	16.93	1,480.72	1,442.60	89.98	38.842
9,600.00	9,600.00	0.00	0.00	21.44	9,634.42	9,658.16	-1.74	1,475.35	17.12	1,476.50	1,437.96	90.07	38.313
9,700.00	9,700.00	0.00	0.00	21.66	9,717.91	9,741.59	-3.49	1,472.58	17.28	1,473.17	1,434.24	90.14	37.837
9,800.00	9,800.00	0.00	0.00	21.89	9,809.33	9,832.97	-5.25	1,470.26	17.46	1,470.64	1,431.30	90.20	37.384
9,900.00	9,899.96	1.63	-0.03	22.11	9,909.35	9,932.96	-6.46	1,468.17	17.62	1,468.60	1,428.88	91.52	36.973
9,959.47	9,958.77	10.21	-0.20	22.25	9,942.10	9,965.69	-6.63	1,467.54	17.62	1,467.85	1,428.00	91.78	36.829
10,000.00	9,998.03	20.22	-0.39	22.34	9,962.00	9,985.58	-5.90	1,467.77	17.62	1,468.44	1,428.49	91.89	36.760
10,100.00	10,090.09	58.79	-1.13	22.55	10,001.32	10,024.63	-1.75	1,469.31	17.63	1,473.14	1,432.98	91.81	36.687
10,200.00	10,172.12	115.66	-2.23	22.76	10,099.94	10,091.26	13.78	1,473.68	17.64	1,481.63	1,441.25	91.79	36.690
10,300.00	10,240.53	188.33	-3.63	23.04	10,374.56	10,348.32	171.65	1,476.57	17.87	1,484.21	1,443.36	94.37	36.335
10,400.00	10,292.33	273.64	-5.27	23.39	10,652.83	10,503.16	399.45	1,455.03	18.79	1,480.79	1,438.78	95.82	35.250
10,500.00	10,325.26	367.85	-7.08	23.84	10,741.44	10,527.97	483.69	1,444.17	19.30	1,469.91	1,426.95	96.95	34.216
10,600.00	10,337.88	466.84	-8.99	24.39	10,806.93	10,538.47	548.05	1,438.30	19.73	1,463.38	1,419.45	97.84	33.311
10,696.24	10,338.99	563.06	-10.84	25.02	10,850.00	10,543.50	590.75	1,435.84	20.02	1,461.33	1,416.49	98.04	32.594
10,700.00	10,338.00	566.82	-10.92	25.04	10,850.00	10,543.50	590.75	1,435.84	20.02	1,461.47	1,416.61	98.08	32.581
10,800.00	10,338.00	666.81	-12.84	25.81	10,898.89	10,547.94	639.42	1,435.19	20.37	1,463.43	1,417.50	98.25	31.863
10,900.00	10,338.00	766.79	-14.77	26.68	10,956.52	10,554.30	696.68	1,436.35	20.74	1,468.82	1,421.70	98.49	31.173
11,000.00	10,338.00	866.77	-16.69	27.64	11,044.37	10,566.93	783.58	1,439.00	21.38	1,475.93	1,427.27	98.95	30.331
11,100.00	10,338.00	966.75	-18.62	28.69	11,168.88	10,582.31	907.08	1,442.28	22.51	1,482.39	1,431.60	99.50	29.188
11,200.00	10,338.00	1,066.73	-20.54	29.82	11,340.96	10,586.22	1,078.99	1,444.53	24.27	1,486.01	1,432.35	99.62	27.693
11,300.00	10,338.00	1,166.71	-22.47	31.01	11,403.50	10,585.97	1,141.53	1,445.18	24.89	1,488.66	1,433.24	99.59	26.860

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)
Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #3H - Wellbore #1 - Surveys
Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
11,400.00	10,338.00	1,266.69	-24.40	32.26	11,516.77	10,586.37	1,254.79	1,446.87	26.05	1,492.13	1,434.32	99.59	25.808
11,500.00	10,338.00	1,366.68	-26.32	33.57	11,609.97	10,584.92	1,347.97	1,448.10	27.13	1,495.07	1,434.90	99.51	24.846
11,600.00	10,338.00	1,466.66	-28.25	34.93	11,684.19	10,583.86	1,422.16	1,449.86	27.95	1,499.08	1,436.78	99.45	24.063
11,700.00	10,338.00	1,566.64	-30.17	36.32	11,788.77	10,585.10	1,526.68	1,452.92	29.06	1,504.07	1,439.30	99.47	23.223
11,800.00	10,338.00	1,666.62	-32.10	37.75	11,900.13	10,587.15	1,638.00	1,455.14	30.34	1,508.23	1,440.78	99.52	22.360
11,900.00	10,338.00	1,766.60	-34.02	39.22	12,001.93	10,587.11	1,739.78	1,457.07	31.65	1,512.00	1,441.80	99.49	21.540
12,000.00	10,338.00	1,866.58	-35.95	40.72	12,107.68	10,585.20	1,845.49	1,459.07	33.01	1,515.46	1,442.43	99.39	20.751
12,100.00	10,338.00	1,966.56	-37.87	42.24	12,217.41	10,584.79	1,955.21	1,460.46	34.35	1,518.57	1,442.69	99.36	20.013
12,200.00	10,338.00	2,066.55	-39.80	43.79	12,339.15	10,583.30	2,076.94	1,460.72	35.93	1,520.47	1,441.48	99.29	19.249
12,300.00	10,338.00	2,166.53	-41.73	45.36	12,436.11	10,581.80	2,173.88	1,460.19	37.19	1,521.59	1,439.80	99.22	18.603
12,400.00	10,338.00	2,266.51	-43.65	46.94	12,549.59	10,583.17	2,287.34	1,459.18	38.65	1,522.84	1,438.04	99.26	17.959
12,500.00	10,338.00	2,366.49	-45.58	48.55	12,675.01	10,580.74	2,412.71	1,456.66	40.39	1,522.43	1,434.31	99.18	17.278
12,600.00	10,338.00	2,466.47	-47.50	50.17	12,781.60	10,575.58	2,519.14	1,454.01	41.90	1,521.10	1,429.87	98.99	16.672
12,700.00	10,338.00	2,566.45	-49.43	51.80	12,878.65	10,568.84	2,615.92	1,451.53	43.25	1,519.41	1,425.17	98.74	16.124
12,800.00	10,338.00	2,666.44	-51.35	53.45	12,967.58	10,564.21	2,704.71	1,449.90	44.43	1,518.69	1,421.61	98.57	15.645
12,900.00	10,338.00	2,766.42	-53.28	55.11	13,072.77	10,558.63	2,809.73	1,447.45	45.84	1,517.48	1,417.33	98.36	15.152
12,962.97	10,338.00	2,829.37	-54.49	56.16	13,121.39	10,556.41	2,858.28	1,446.60	46.50	1,517.18	1,415.31	98.28	14.894
13,000.00	10,338.00	2,866.40	-55.20	56.78	13,150.33	10,555.33	2,887.20	1,446.28	46.88	1,517.28	1,414.42	98.24	14.751
13,100.00	10,338.00	2,966.38	-57.13	58.46	13,229.49	10,553.94	2,966.35	1,445.95	47.89	1,518.51	1,412.98	98.18	14.390
13,200.00	10,338.00	3,066.36	-59.06	60.15	13,332.23	10,552.71	3,069.08	1,446.03	49.29	1,520.33	1,411.73	98.12	13.999
13,300.00	10,338.00	3,166.34	-60.98	61.85	13,425.04	10,552.64	3,161.89	1,446.13	50.55	1,522.33	1,410.80	98.11	13.650
13,400.00	10,338.00	3,266.32	-62.91	63.55	13,522.04	10,553.46	3,258.88	1,446.44	51.86	1,524.67	1,410.16	98.13	13.315
13,500.00	10,338.00	3,366.31	-64.83	65.27	13,647.03	10,552.80	3,383.87	1,446.30	53.67	1,526.42	1,408.39	98.09	12.932
13,600.00	10,338.00	3,466.29	-66.76	66.98	13,760.19	10,550.44	3,496.99	1,444.40	55.29	1,526.33	1,404.97	98.00	12.577
13,700.00	10,338.00	3,566.27	-68.68	68.71	13,862.63	10,549.61	3,599.40	1,442.50	56.66	1,526.29	1,401.86	97.97	12.266
13,800.00	10,338.00	3,666.25	-70.61	70.44	13,969.83	10,550.98	3,706.55	1,439.68	58.12	1,525.76	1,398.18	98.02	11.959
13,900.00	10,338.00	3,766.23	-72.53	72.17	14,098.53	10,551.46	3,835.17	1,434.91	59.98	1,524.05	1,392.94	98.05	11.625
14,000.00	10,338.00	3,866.21	-74.46	73.91	14,186.67	10,550.88	3,923.23	1,431.36	61.25	1,521.86	1,387.75	98.04	11.348
14,100.00	10,338.00	3,966.19	-76.39	75.66	14,295.09	10,548.96	4,031.54	1,426.99	62.83	1,519.52	1,382.11	97.98	11.059
14,200.00	10,338.00	4,066.18	-78.31	77.40	14,371.00	10,548.39	4,107.40	1,424.27	63.91	1,517.80	1,377.56	97.97	10.822
14,257.17	10,338.00	4,123.33	-79.41	78.41	14,415.88	10,548.46	4,152.27	1,423.15	64.53	1,517.50	1,375.65	97.97	10.698

HALLIBURTON

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #3H - Wellbore #1 - Surveys

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well				Separation (Ref. > Comp.)				
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
14,300.00	10,338.00	4,166.16	-80.24	79.16	14,447.06	10,548.48	4,183.44	1,422.67	64.95	1,517.67	1,374.65	97.97	10.611
14,400.00	10,338.00	4,266.14	-82.16	80.91	14,523.11	10,548.50	4,259.50	1,422.47	66.00	1,519.30	1,373.53	97.97	10.422
14,500.00	10,338.00	4,366.12	-84.09	82.67	14,624.83	10,549.51	4,361.20	1,422.99	67.42	1,521.85	1,372.93	97.99	10.219
14,600.00	10,338.00	4,466.10	-86.01	84.43	14,703.33	10,550.32	4,439.69	1,423.33	68.54	1,524.43	1,372.71	98.01	10.048
14,700.00	10,338.00	4,566.08	-87.94	86.20	14,776.27	10,551.73	4,512.59	1,425.31	69.57	1,529.20	1,374.82	98.05	9.905
14,703.36	10,338.00	4,569.44	-88.00	86.26	14,779.92	10,551.81	4,516.24	1,425.43	69.62	1,529.38	1,374.89	98.05	9.900

HALLIBURTON

Endurance Resources, LLC
Lea County, NM (NAD 83)

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #7H - Wellbore #1 - Plan #1

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
100.00	100.00	0.00	0.00	0.08	75.70	100.00	10.75	1,319.86	0.06	1,319.90	1,319.75	89.53	8,912.648
200.00	200.00	0.00	0.00	0.31	175.70	200.00	10.75	1,319.86	0.25	1,319.90	1,319.34	89.53	2,342.372
300.00	300.00	0.00	0.00	0.53	275.70	300.00	10.75	1,319.86	0.48	1,319.90	1,318.89	89.53	1,302.935
400.00	400.00	0.00	0.00	0.76	375.70	400.00	10.75	1,319.86	0.70	1,319.90	1,318.44	89.53	902.463
500.00	500.00	0.00	0.00	0.98	475.70	500.00	10.75	1,319.86	0.93	1,319.90	1,317.99	89.53	690.294
600.00	600.00	0.00	0.00	1.21	575.70	600.00	10.75	1,319.86	1.15	1,319.90	1,317.54	89.53	558.897
700.00	700.00	0.00	0.00	1.43	675.70	700.00	10.75	1,319.86	1.38	1,319.90	1,317.09	89.53	469.523
800.00	800.00	0.00	0.00	1.66	775.70	800.00	10.75	1,319.86	1.60	1,319.90	1,316.64	89.53	404.793
900.00	900.00	0.00	0.00	1.88	875.70	900.00	10.75	1,319.86	1.83	1,319.90	1,316.19	89.53	355.748
1,000.00	1,000.00	0.00	0.00	2.11	975.70	1,000.00	10.75	1,319.86	2.05	1,319.90	1,315.74	89.53	317.303
1,100.00	1,100.00	0.00	0.00	2.33	1,075.70	1,100.00	10.75	1,319.86	2.28	1,319.90	1,315.29	89.53	286.357
1,200.00	1,200.00	0.00	0.00	2.56	1,175.70	1,200.00	10.75	1,319.86	2.50	1,319.90	1,314.84	89.53	260.911
1,300.00	1,300.00	0.00	0.00	2.78	1,275.70	1,300.00	10.75	1,319.86	2.73	1,319.90	1,314.39	89.53	239.618
1,400.00	1,400.00	0.00	0.00	3.01	1,375.70	1,400.00	10.75	1,319.86	2.95	1,319.90	1,313.94	89.53	221.539
1,500.00	1,500.00	0.00	0.00	3.23	1,475.70	1,500.00	10.75	1,319.86	3.18	1,319.90	1,313.49	89.53	205.996
1,600.00	1,600.00	0.00	0.00	3.46	1,575.70	1,600.00	10.75	1,319.86	3.40	1,319.90	1,313.04	89.53	192.491
1,700.00	1,700.00	0.00	0.00	3.68	1,675.70	1,700.00	10.75	1,319.86	3.63	1,319.90	1,312.59	89.53	180.648
1,800.00	1,800.00	0.00	0.00	3.91	1,775.70	1,800.00	10.75	1,319.86	3.85	1,319.90	1,312.14	89.53	170.178
1,900.00	1,900.00	0.00	0.00	4.13	1,875.70	1,900.00	10.75	1,319.86	4.08	1,319.90	1,311.69	89.53	160.855
2,000.00	2,000.00	0.00	0.00	4.35	1,975.70	2,000.00	10.75	1,319.86	4.30	1,319.90	1,311.24	89.53	152.500
2,100.00	2,100.00	0.00	0.00	4.58	2,075.70	2,100.00	10.75	1,319.86	4.52	1,319.90	1,310.80	89.53	144.971
2,200.00	2,200.00	0.00	0.00	4.80	2,175.70	2,200.00	10.75	1,319.86	4.75	1,319.90	1,310.35	89.53	138.150
2,300.00	2,300.00	0.00	0.00	5.03	2,275.70	2,300.00	10.75	1,319.86	4.97	1,319.90	1,309.90	89.53	131.942
2,400.00	2,400.00	0.00	0.00	5.25	2,375.70	2,400.00	10.75	1,319.86	5.20	1,319.90	1,309.45	89.53	126.268
2,500.00	2,500.00	0.00	0.00	5.48	2,475.70	2,500.00	10.75	1,319.86	5.42	1,319.90	1,309.00	89.53	121.061
2,600.00	2,600.00	0.00	0.00	5.70	2,575.70	2,600.00	10.75	1,319.86	5.65	1,319.90	1,308.55	89.53	116.268
2,700.00	2,700.00	0.00	0.00	5.93	2,675.70	2,700.00	10.75	1,319.86	5.87	1,319.90	1,308.10	89.53	111.839
2,800.00	2,800.00	0.00	0.00	6.15	2,775.70	2,800.00	10.75	1,319.86	6.10	1,319.90	1,307.65	89.53	107.735
2,900.00	2,900.00	0.00	0.00	6.38	2,875.70	2,900.00	10.75	1,319.86	6.32	1,319.90	1,307.20	89.53	103.922
3,000.00	3,000.00	0.00	0.00	6.60	2,975.70	3,000.00	10.75	1,319.86	6.55	1,319.90	1,306.75	89.53	100.370
3,100.00	3,100.00	0.00	0.00	6.83	3,075.70	3,100.00	10.75	1,319.86	6.77	1,319.90	1,306.30	89.53	97.052
3,200.00	3,200.00	0.00	0.00	7.05	3,175.70	3,200.00	10.75	1,319.86	7.00	1,319.90	1,305.85	89.53	93.947

HALLIBURTON

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #7H - Wellbore #1 - Plan #1

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
3,300.00	3,300.00	0.00	0.00	7.28	3,275.70	3,300.00	10.75	1,319.86	7.22	1,319.90	1,305.40	89.53	91.034
3,400.00	3,400.00	0.00	0.00	7.50	3,375.70	3,400.00	10.75	1,319.86	7.45	1,319.90	1,304.95	89.53	88.296
3,500.00	3,500.00	0.00	0.00	7.73	3,475.70	3,500.00	10.75	1,319.86	7.67	1,319.90	1,304.50	89.53	85.719
3,600.00	3,600.00	0.00	0.00	7.95	3,575.70	3,600.00	10.75	1,319.86	7.90	1,319.90	1,304.05	89.53	83.287
3,700.00	3,700.00	0.00	0.00	8.18	3,675.70	3,700.00	10.75	1,319.86	8.12	1,319.90	1,303.60	89.53	80.990
3,800.00	3,800.00	0.00	0.00	8.40	3,775.70	3,800.00	10.75	1,319.86	8.35	1,319.90	1,303.15	89.53	78.816
3,900.00	3,900.00	0.00	0.00	8.63	3,875.70	3,900.00	10.75	1,319.86	8.57	1,319.90	1,302.70	89.53	76.755
4,000.00	4,000.00	0.00	0.00	8.85	3,975.70	4,000.00	10.75	1,319.86	8.80	1,319.90	1,302.25	89.53	74.800
4,100.00	4,100.00	0.00	0.00	9.07	4,075.70	4,100.00	10.75	1,319.86	9.02	1,319.90	1,301.80	89.53	72.942
4,200.00	4,200.00	0.00	0.00	9.30	4,175.70	4,200.00	10.75	1,319.86	9.25	1,319.90	1,301.36	89.53	71.174
4,300.00	4,300.00	0.00	0.00	9.52	4,275.70	4,300.00	10.75	1,319.86	9.47	1,319.90	1,300.91	89.53	69.489
4,400.00	4,400.00	0.00	0.00	9.75	4,375.70	4,400.00	10.75	1,319.86	9.69	1,319.90	1,300.46	89.53	67.883
4,500.00	4,500.00	0.00	0.00	9.97	4,475.70	4,500.00	10.75	1,319.86	9.92	1,319.90	1,300.01	89.53	66.349
4,600.00	4,600.00	0.00	0.00	10.20	4,575.70	4,600.00	10.75	1,319.86	10.14	1,319.90	1,299.56	89.53	64.883
4,700.00	4,700.00	0.00	0.00	10.42	4,675.70	4,700.00	10.75	1,319.86	10.37	1,319.90	1,299.11	89.53	63.480
4,800.00	4,800.00	0.00	0.00	10.65	4,775.70	4,800.00	10.75	1,319.86	10.59	1,319.90	1,298.66	89.53	62.136
4,900.00	4,900.00	0.00	0.00	10.87	4,875.70	4,900.00	10.75	1,319.86	10.82	1,319.90	1,298.21	89.53	60.849
5,000.00	5,000.00	0.00	0.00	11.10	4,975.70	5,000.00	10.75	1,319.86	11.04	1,319.90	1,297.76	89.53	59.613
5,100.00	5,100.00	0.00	0.00	11.32	5,075.70	5,100.00	10.75	1,319.86	11.27	1,319.90	1,297.31	89.53	58.427
5,200.00	5,200.00	0.00	0.00	11.55	5,175.70	5,200.00	10.75	1,319.86	11.49	1,319.90	1,296.86	89.53	57.287
5,300.00	5,300.00	0.00	0.00	11.77	5,275.70	5,300.00	10.75	1,319.86	11.72	1,319.90	1,296.41	89.53	56.191
5,400.00	5,400.00	0.00	0.00	12.00	5,375.70	5,400.00	10.75	1,319.86	11.94	1,319.90	1,295.96	89.53	55.136
5,500.00	5,500.00	0.00	0.00	12.22	5,475.70	5,500.00	10.75	1,319.86	12.17	1,319.90	1,295.51	89.53	54.119
5,600.00	5,600.00	0.00	0.00	12.45	5,575.70	5,600.00	10.75	1,319.86	12.39	1,319.90	1,295.06	89.53	53.140
5,700.00	5,700.00	0.00	0.00	12.67	5,675.70	5,700.00	10.75	1,319.86	12.62	1,319.90	1,294.61	89.53	52.195
5,800.00	5,800.00	0.00	0.00	12.90	5,775.70	5,800.00	10.75	1,319.86	12.84	1,319.90	1,294.16	89.53	51.284
5,900.00	5,900.00	0.00	0.00	13.12	5,875.70	5,900.00	10.75	1,319.86	13.07	1,319.90	1,293.71	89.53	50.403
6,000.00	6,000.00	0.00	0.00	13.35	5,975.70	6,000.00	10.75	1,319.86	13.29	1,319.90	1,293.26	89.53	49.553
6,100.00	6,100.00	0.00	0.00	13.57	6,075.70	6,100.00	10.75	1,319.86	13.52	1,319.90	1,292.81	89.53	48.730
6,200.00	6,200.00	0.00	0.00	13.80	6,175.70	6,200.00	10.75	1,319.86	13.74	1,319.90	1,292.36	89.53	47.935
6,300.00	6,300.00	0.00	0.00	14.02	6,275.70	6,300.00	10.75	1,319.86	13.97	1,319.90	1,291.92	89.53	47.165
6,400.00	6,400.00	0.00	0.00	14.24	6,375.70	6,400.00	10.75	1,319.86	14.19	1,319.90	1,291.47	89.53	46.419

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #7H - Wellbore #1 - Plan #1

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	Ellipse Centre +E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
6,500.00	6,500.00	0.00	0.00	14.47	6,475.70	6,500.00	10.75	1,319.86	14.41	1,319.90	1,291.02	89.53	45.697
6,600.00	6,600.00	0.00	0.00	14.69	6,575.70	6,600.00	10.75	1,319.86	14.64	1,319.90	1,290.57	89.53	44.996
6,700.00	6,700.00	0.00	0.00	14.92	6,675.70	6,700.00	10.75	1,319.86	14.86	1,319.90	1,290.12	89.53	44.317
6,800.00	6,800.00	0.00	0.00	15.14	6,775.70	6,800.00	10.75	1,319.86	15.09	1,319.90	1,289.67	89.53	43.658
6,900.00	6,900.00	0.00	0.00	15.37	6,875.70	6,900.00	10.75	1,319.86	15.31	1,319.90	1,289.22	89.53	43.019
7,000.00	7,000.00	0.00	0.00	15.59	6,975.70	7,000.00	10.75	1,319.86	15.54	1,319.90	1,288.77	89.53	42.397
7,100.00	7,100.00	0.00	0.00	15.82	7,075.70	7,100.00	10.75	1,319.86	15.76	1,319.90	1,288.32	89.53	41.794
7,200.00	7,200.00	0.00	0.00	16.04	7,175.70	7,200.00	10.75	1,319.86	15.99	1,319.90	1,287.87	89.53	41.207
7,300.00	7,300.00	0.00	0.00	16.27	7,275.70	7,300.00	10.75	1,319.86	16.21	1,319.90	1,287.42	89.53	40.637
7,400.00	7,400.00	0.00	0.00	16.49	7,375.70	7,400.00	10.75	1,319.86	16.44	1,319.90	1,286.97	89.53	40.082
7,500.00	7,500.00	0.00	0.00	16.72	7,475.70	7,500.00	10.75	1,319.86	16.66	1,319.90	1,286.52	89.53	39.542
7,600.00	7,600.00	0.00	0.00	16.94	7,575.70	7,600.00	10.75	1,319.86	16.89	1,319.90	1,286.07	89.53	39.017
7,700.00	7,700.00	0.00	0.00	17.17	7,675.70	7,700.00	10.75	1,319.86	17.11	1,319.90	1,285.62	89.53	38.505
7,800.00	7,800.00	0.00	0.00	17.39	7,775.70	7,800.00	10.75	1,319.86	17.34	1,319.90	1,285.17	89.53	38.007
7,900.00	7,900.00	0.00	0.00	17.62	7,875.70	7,900.00	10.75	1,319.86	17.56	1,319.90	1,284.72	89.53	37.521
8,000.00	8,000.00	0.00	0.00	17.84	7,975.70	8,000.00	10.75	1,319.86	17.79	1,319.90	1,284.27	89.53	37.048
8,100.00	8,100.00	0.00	0.00	18.07	8,075.70	8,100.00	10.75	1,319.86	18.01	1,319.90	1,283.82	89.53	36.586
8,200.00	8,200.00	0.00	0.00	18.29	8,175.70	8,200.00	10.75	1,319.86	18.24	1,319.90	1,283.37	89.53	36.136
8,300.00	8,300.00	0.00	0.00	18.52	8,275.70	8,300.00	10.75	1,319.86	18.46	1,319.90	1,282.92	89.53	35.697
8,400.00	8,400.00	0.00	0.00	18.74	8,375.70	8,400.00	10.75	1,319.86	18.69	1,319.90	1,282.47	89.53	35.268
8,500.00	8,500.00	0.00	0.00	18.96	8,475.70	8,500.00	10.75	1,319.86	18.91	1,319.90	1,282.03	89.53	34.849
8,600.00	8,600.00	0.00	0.00	19.19	8,575.70	8,600.00	10.75	1,319.86	19.13	1,319.90	1,281.58	89.53	34.440
8,700.00	8,700.00	0.00	0.00	19.41	8,675.70	8,700.00	10.75	1,319.86	19.36	1,319.90	1,281.13	89.53	34.041
8,800.00	8,800.00	0.00	0.00	19.64	8,775.70	8,800.00	10.75	1,319.86	19.58	1,319.90	1,280.68	89.53	33.651
8,900.00	8,900.00	0.00	0.00	19.86	8,875.70	8,900.00	10.75	1,319.86	19.81	1,319.90	1,280.23	89.53	33.270
9,000.00	9,000.00	0.00	0.00	20.09	8,975.70	9,000.00	10.75	1,319.86	20.03	1,319.90	1,279.78	89.53	32.897
9,100.00	9,100.00	0.00	0.00	20.31	9,075.70	9,100.00	10.75	1,319.86	20.26	1,319.90	1,279.33	89.53	32.532
9,200.00	9,200.00	0.00	0.00	20.54	9,175.70	9,200.00	10.75	1,319.86	20.48	1,319.90	1,278.88	89.53	32.176
9,300.00	9,300.00	0.00	0.00	20.76	9,275.70	9,300.00	10.75	1,319.86	20.71	1,319.90	1,278.43	89.53	31.827
9,400.00	9,400.00	0.00	0.00	20.99	9,375.70	9,400.00	10.75	1,319.86	20.93	1,319.90	1,277.98	89.53	31.486
9,500.00	9,500.00	0.00	0.00	21.21	9,475.70	9,500.00	10.75	1,319.86	21.16	1,319.90	1,277.53	89.53	31.152
9,500.72	9,500.72	0.00	0.00	21.21	9,476.42	9,500.72	10.75	1,319.86	21.16	1,319.90	1,277.53	89.53	31.149

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #7H - Wellbore #1 - Plan #1

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N-S (usft)	Ellipse Centre +E-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N-S (usft)	Ellipse Centre +E-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
9,600.00	9,600.00	0.00	0.00	21.44	9,569.99	9,594.17	14.21	1,319.96	21.37	1,320.05	1,277.24	89.38	30.839
9,700.00	9,700.00	0.00	0.00	21.66	9,658.67	9,681.20	30.69	1,320.44	21.57	1,320.93	1,277.71	88.67	30.566
9,800.00	9,800.00	0.00	0.00	21.89	9,740.52	9,758.41	57.65	1,321.23	21.75	1,323.14	1,279.54	87.50	30.346
9,900.00	9,899.96	1.63	-0.03	22.11	9,814.07	9,823.88	91.03	1,322.21	21.89	1,327.44	1,283.49	86.97	30.202
10,000.00	9,998.03	20.22	-0.39	22.34	9,884.79	9,882.32	130.78	1,323.37	22.06	1,333.40	1,289.13	85.05	30.120
10,100.00	10,090.09	58.79	-1.13	22.55	9,954.54	9,934.71	176.73	1,324.72	22.25	1,340.13	1,295.55	83.31	30.064
10,200.00	10,172.12	115.66	-2.23	22.76	10,023.61	9,980.72	228.17	1,326.23	22.48	1,346.88	1,301.97	81.84	29.987
10,300.00	10,240.53	188.33	-3.63	23.04	10,092.25	10,019.98	284.40	1,327.88	22.73	1,353.06	1,307.72	80.71	29.841
10,400.00	10,292.33	273.64	-5.27	23.39	10,160.66	10,052.14	344.71	1,329.65	23.04	1,358.21	1,312.30	79.96	29.581
10,500.00	10,325.26	367.85	-7.08	23.84	10,229.04	10,076.87	408.39	1,331.51	23.39	1,362.05	1,315.38	79.63	29.181
10,600.00	10,337.88	466.84	-8.99	24.39	10,300.00	10,094.33	477.09	1,333.53	23.81	1,364.47	1,316.82	79.73	28.635
10,700.00	10,338.00	566.82	-10.92	25.04	10,367.24	10,102.92	543.72	1,335.48	24.25	1,366.96	1,318.19	80.09	28.030
10,800.00	10,338.00	666.81	-12.84	25.81	10,450.80	10,104.30	627.21	1,337.93	24.87	1,371.41	1,321.27	80.18	27.353
10,900.00	10,338.00	766.79	-14.77	26.68	10,550.68	10,104.30	727.05	1,340.86	25.70	1,376.19	1,324.38	80.21	26.561
11,000.00	10,338.00	866.77	-16.69	27.64	10,650.57	10,104.30	826.89	1,343.78	26.62	1,380.98	1,327.30	80.25	25.728
11,100.00	10,338.00	966.75	-18.62	28.69	10,750.45	10,104.30	926.72	1,346.71	27.63	1,385.76	1,330.05	80.28	24.874
11,200.00	10,338.00	1,066.73	-20.54	29.82	10,850.33	10,104.30	1,026.56	1,349.64	28.72	1,390.55	1,332.65	80.31	24.017
11,300.00	10,338.00	1,166.71	-22.47	31.01	10,950.21	10,104.30	1,126.40	1,352.56	29.88	1,395.33	1,335.11	80.35	23.168
11,400.00	10,338.00	1,266.69	-24.40	32.26	11,050.10	10,104.30	1,226.24	1,355.49	31.11	1,400.12	1,337.45	80.38	22.340
11,500.00	10,338.00	1,366.68	-26.32	33.57	11,149.98	10,104.30	1,326.08	1,358.42	32.39	1,404.91	1,339.68	80.41	21.537
11,600.00	10,338.00	1,466.66	-28.25	34.93	11,249.86	10,104.30	1,425.92	1,361.34	33.72	1,409.69	1,341.81	80.45	20.766
11,700.00	10,338.00	1,566.64	-30.17	36.32	11,349.74	10,104.30	1,525.76	1,364.27	35.09	1,414.48	1,343.86	80.48	20.029
11,800.00	10,338.00	1,666.62	-32.10	37.75	11,449.62	10,104.30	1,625.60	1,367.20	36.51	1,419.27	1,345.83	80.51	19.326
11,900.00	10,338.00	1,766.60	-34.02	39.22	11,549.51	10,104.30	1,725.44	1,370.12	37.96	1,424.06	1,347.74	80.54	18.659
12,000.00	10,338.00	1,866.58	-35.95	40.72	11,649.39	10,104.30	1,825.28	1,373.05	39.43	1,428.85	1,349.58	80.58	18.027
12,100.00	10,338.00	1,966.56	-37.87	42.24	11,749.27	10,104.30	1,925.12	1,375.98	40.94	1,433.64	1,351.38	80.61	17.428
12,200.00	10,338.00	2,066.55	-39.80	43.79	11,849.15	10,104.30	2,024.96	1,378.90	42.47	1,438.43	1,353.12	80.64	16.862
12,300.00	10,338.00	2,166.53	-41.73	45.36	11,949.03	10,104.30	2,124.79	1,381.83	44.02	1,443.22	1,354.82	80.67	16.327
12,400.00	10,338.00	2,266.51	-43.65	46.94	12,048.92	10,104.30	2,224.63	1,384.76	45.59	1,448.01	1,356.49	80.70	15.822
12,500.00	10,338.00	2,366.49	-45.58	48.55	12,148.80	10,104.30	2,324.47	1,387.69	47.18	1,452.80	1,358.12	80.73	15.344
12,600.00	10,338.00	2,466.47	-47.50	50.17	12,248.68	10,104.30	2,424.31	1,390.61	48.79	1,457.59	1,359.71	80.76	14.892
12,700.00	10,338.00	2,566.45	-49.43	51.80	12,348.56	10,104.30	2,524.15	1,393.54	50.41	1,462.38	1,361.28	80.79	14.465

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Closest Approach 3D Proximity Scan on Current Survey Data (Highside Reference)

Offset Design: Stratocaster 20 Fed - Stratocaster 20 Fed #7H - Wellbore #1 - Plan #1

Scan Range: 0.00 to 14,703.36 usft. Measured Depth.

Scan Radius is 1,670.34 usft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Uncertainty Data for Reference Well					Uncertainty Data for Comparison Well					Separation (Ref. > Comp.)			
Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Measured Depth (usft)	Vertical Depth (usft)	Ellipse Centre +N/-S (usft)	+E/-W (usft)	Ellipse Major Axis/2	Between Centres (usft)	Between Ellipsoids (usft)	Relative Highside Bearing	Clearance Factor
12,800.00	10,338.00	2,666.44	-51.35	53.45	12,448.44	10,104.30	2,623.99	1,396.47	52.04	1,467.17	1,362.82	80.82	14.060
12,900.00	10,338.00	2,766.42	-53.28	55.11	12,548.33	10,104.30	2,723.83	1,399.39	53.68	1,471.97	1,364.34	80.85	13.677
13,000.00	10,338.00	2,866.40	-55.20	56.78	12,648.21	10,104.30	2,823.67	1,402.32	55.34	1,476.76	1,365.84	80.88	13.314
13,100.00	10,338.00	2,966.38	-57.13	58.46	12,748.09	10,104.30	2,923.51	1,405.25	57.01	1,481.55	1,367.32	80.91	12.970
13,200.00	10,338.00	3,066.36	-59.06	60.15	12,847.97	10,104.30	3,023.35	1,408.17	58.68	1,486.35	1,368.78	80.94	12.643
13,300.00	10,338.00	3,166.34	-60.98	61.85	12,947.86	10,104.30	3,123.19	1,411.10	60.36	1,491.14	1,370.23	80.97	12.332
13,400.00	10,338.00	3,266.32	-62.91	63.55	13,047.74	10,104.30	3,223.03	1,414.03	62.05	1,495.94	1,371.65	81.00	12.037
13,500.00	10,338.00	3,366.31	-64.83	65.27	13,147.62	10,104.30	3,322.87	1,416.95	63.75	1,500.73	1,373.07	81.03	11.756
13,600.00	10,338.00	3,466.29	-66.76	66.98	13,247.50	10,104.30	3,422.70	1,419.88	65.46	1,505.53	1,374.47	81.06	11.488
13,700.00	10,338.00	3,566.27	-68.68	68.71	13,347.38	10,104.30	3,522.54	1,422.81	67.17	1,510.32	1,375.86	81.09	11.233
13,800.00	10,338.00	3,666.25	-70.61	70.44	13,447.27	10,104.30	3,622.38	1,425.73	68.88	1,515.12	1,377.24	81.12	10.989
13,900.00	10,338.00	3,766.23	-72.53	72.17	13,547.15	10,104.30	3,722.22	1,428.66	70.60	1,519.92	1,378.61	81.14	10.756
14,000.00	10,338.00	3,866.21	-74.46	73.91	13,647.03	10,104.30	3,822.06	1,431.59	72.33	1,524.71	1,379.97	81.17	10.534
14,100.00	10,338.00	3,966.19	-76.39	75.66	13,746.91	10,104.30	3,921.90	1,434.52	74.06	1,529.51	1,381.32	81.20	10.321
14,200.00	10,338.00	4,066.18	-78.31	77.40	13,846.79	10,104.30	4,021.74	1,437.44	75.79	1,534.31	1,382.67	81.23	10.118
14,300.00	10,338.00	4,166.16	-80.24	79.16	13,946.68	10,104.30	4,121.58	1,440.37	77.53	1,539.11	1,384.00	81.26	9.923
14,400.00	10,338.00	4,266.14	-82.16	80.91	14,046.56	10,104.30	4,221.42	1,443.30	79.27	1,543.90	1,385.33	81.28	9.736
14,500.00	10,338.00	4,366.12	-84.09	82.67	14,146.44	10,104.30	4,321.26	1,446.22	81.02	1,548.70	1,386.65	81.31	9.557
14,600.00	10,338.00	4,466.10	-86.01	84.43	14,246.32	10,104.30	4,421.10	1,449.15	82.76	1,553.50	1,387.96	81.34	9.385
14,700.00	10,338.00	4,566.08	-87.94	86.20	14,346.20	10,104.30	4,520.94	1,452.08	84.52	1,558.30	1,389.27	81.36	9.219
14,703.36	10,338.00	4,569.44	-88.00	86.26	14,349.56	10,104.30	4,524.29	1,452.18	84.57	1,558.46	1,389.32	81.37	9.214

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	14,703.36	Plan #1	MWD

HALLIBURTON

Endurance Resources, LLC
Lea County, NM (NAD 83)

Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Ellipse error terms are correlated across survey tool tie-on points.

Calculated ellipses incorporate surface errors.

Separation is the actual distance between ellipsoids.

Distance Between centres is the straight line distance between wellbore centres.

Clearance Factor = Distance Between Profiles / (Distance Between Profiles - Ellipse Separation).

All station coordinates were calculated using the Minimum Curvature method.

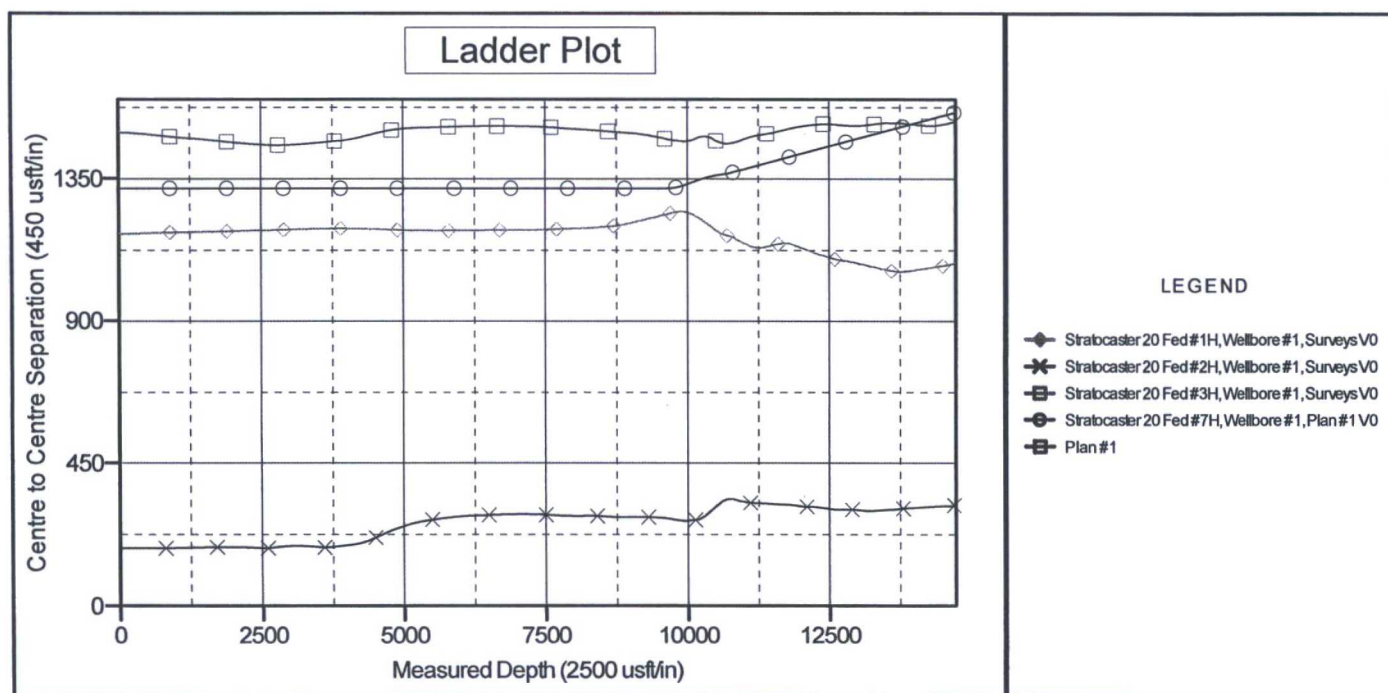
Anticollision Report for Stratocaster 20 Fed #6H - Plan #1

Direction and Coordinates are relative to Grid North Reference.

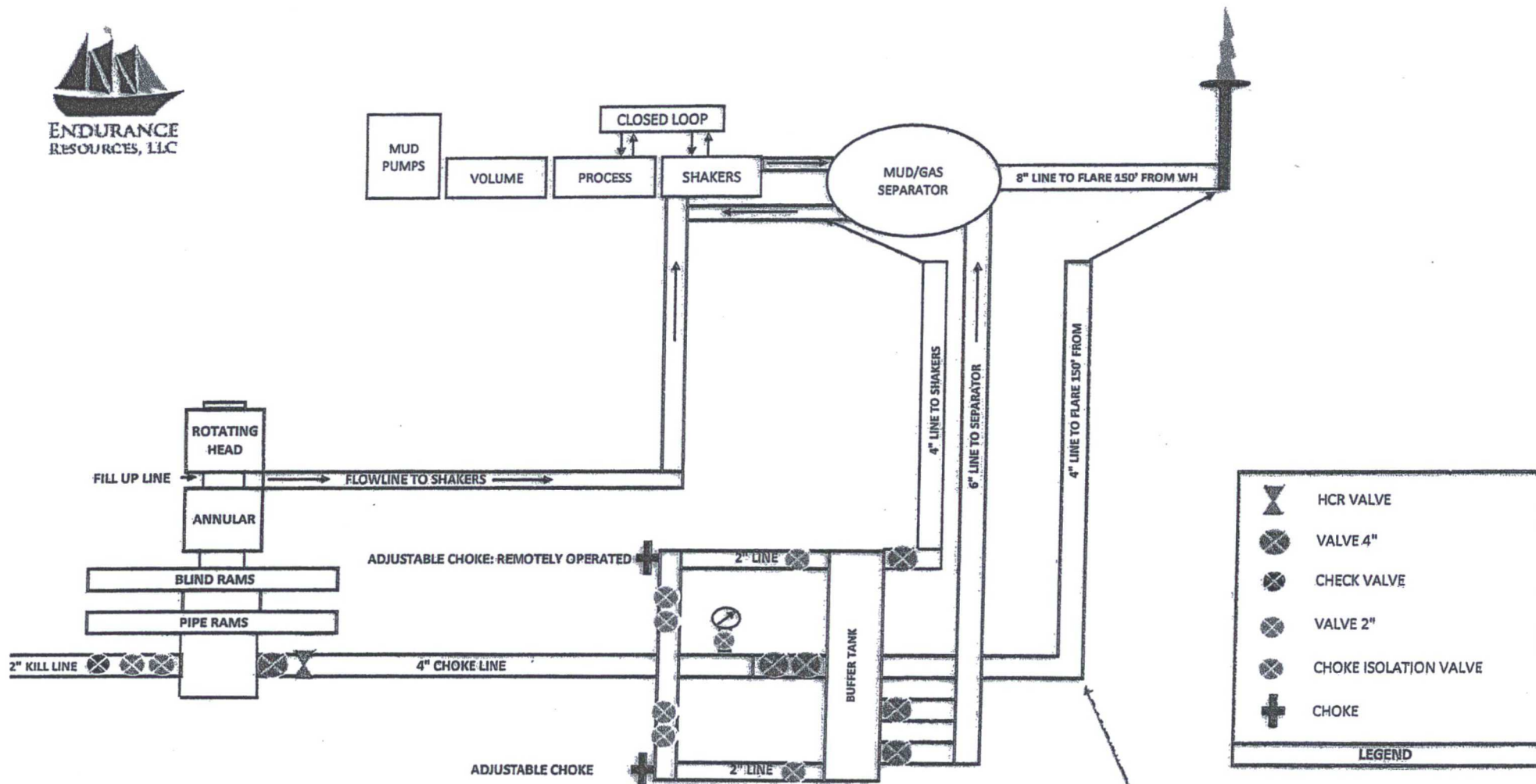
Vertical Depths are relative to WELL @ 3561.30usft (TBD). Northing and Easting are relative to Stratocaster 20 Fed #6H.

Coordinate System is US State Plane 1983, New Mexico Eastern Zone.

Central Meridian is -104.00°, Grid Convergence at Surface is: 0.45°.



5M BOP, 5M CHOKE MANIFOLD, AND CLOSED LOOP EQUIPMENT SCHEMATIC FOR 13-5/8 BOP SYSTEM TESTED TO 5M PER ONSHORE ORDER #2



TARGETED T'S. ALL TURNS WILL BE TARGETED.
 OPTION TO USE FLEX HOUSE. TBD ONCE DRILLING RIG IS SECURED. WILL SUNDRY.
 ALL CHOKE LINES WILL BE STRAIGHT LINES UNLESS TURNS THAT USE TEE BLOCKS OR ARE
 TARGETED WITH RUNNING TEES, AND WILL BE ANCHORED TO PREVENT WHIP & REDUCE VIBRATION