

Noble Energy

Garfield County, CO

Sec. 20-T7S-R94W

Rulison Federal 20-32B

Plan #1

Plan: Plan #1 Proposal

Sperry Drilling Services

Proposal Report

22 January, 2009

Well Coordinates: 589,022.77 N, 1,317,924.03 E (39° 25' 32.79" N, 107° 54' 53.29" W)

Ground Level: 7,906.00 ft

Local Coordinate Origin: Centered on Well Rulison Federal 20-32B

Viewing Datum: RKB 25' @ 7931.00ft (Original Well Elev)

TVDs to System: N

North Reference: True

Unit System: API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 42

HALLIBURTON

Plan Report for Rulison Federal 20-32B - Plan #1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.00	0.00	0.00	225.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kickoff at 225.00ft										
300.00	1.50	72.00	299.99	0.30	0.93	0.97	2.00	2.00	0.00	72.00
400.00	3.50	72.00	399.89	1.65	5.08	5.29	2.00	2.00	0.00	0.00
500.00	5.50	72.00	499.58	4.08	12.54	13.06	2.00	2.00	0.00	0.00
600.00	7.50	72.00	598.93	7.57	23.31	24.26	2.00	2.00	0.00	0.00
700.00	9.50	72.00	697.83	12.14	37.37	38.90	2.00	2.00	0.00	0.00
800.00	11.50	72.00	796.15	17.77	54.70	56.94	2.00	2.00	0.00	0.00
835.00	12.20	72.00	830.40	19.99	61.53	64.05	2.00	2.00	0.00	0.00
Build Rate = 2.00°/100ft										
900.00	13.50	72.00	893.77	24.46	75.28	78.36	2.00	2.00	0.00	0.00
1,000.00	15.50	72.00	990.58	32.20	99.09	103.15	2.00	2.00	0.00	0.00
1,100.00	17.50	72.00	1,086.46	40.97	126.10	131.27	2.00	2.00	0.00	0.00
1,200.00	19.50	72.00	1,181.29	50.78	156.28	162.68	2.00	2.00	0.00	0.00
1,300.00	21.50	72.00	1,274.95	61.60	189.58	197.35	2.00	2.00	0.00	0.00
1,400.00	23.50	72.00	1,367.33	73.42	225.98	235.23	2.00	2.00	0.00	0.00
1,447.50	24.45	72.00	1,410.73	79.39	244.33	254.34	2.00	2.00	0.00	0.00
End Build / Begin Turn at 1447.50ft										
1,500.00	24.51	73.90	1,458.52	85.77	265.13	275.92	1.50	0.10	3.61	86.86
1,575.00	24.62	76.59	1,526.73	93.71	295.27	306.98	1.50	0.16	3.59	85.13
Turn Rate = 1.50°/100ft										
1,600.00	24.67	77.48	1,549.45	96.04	305.43	317.39	1.50	0.20	3.56	82.68
1,697.14	24.92	80.90	1,637.64	103.68	345.43	358.12	1.50	0.25	3.53	81.87
End Turn at 1697.14ft										
1,700.00	24.92	80.90	1,640.23	103.87	346.62	359.32	0.00	0.00	0.00	0.00
1,800.00	24.92	80.90	1,730.92	110.53	388.23	401.45	0.00	0.00	0.00	0.00
1,900.00	24.92	80.90	1,821.61	117.19	429.83	443.58	0.00	0.00	0.00	0.00
2,000.00	24.92	80.90	1,912.30	123.85	471.44	485.71	0.00	0.00	0.00	0.00
2,100.00	24.92	80.90	2,002.99	130.51	513.04	527.84	0.00	0.00	0.00	0.00
2,200.00	24.92	80.90	2,093.68	137.18	554.65	569.98	0.00	0.00	0.00	0.00
2,300.00	24.92	80.90	2,184.37	143.84	596.26	612.11	0.00	0.00	0.00	0.00
2,400.00	24.92	80.90	2,275.06	150.50	637.86	654.24	0.00	0.00	0.00	0.00
2,500.00	24.92	80.90	2,365.75	157.16	679.47	696.37	0.00	0.00	0.00	0.00
8 5/8" Casing Pt.										
2,600.00	24.92	80.90	2,456.44	163.82	721.07	738.50	0.00	0.00	0.00	0.00
2,700.00	24.92	80.90	2,547.13	170.48	762.68	780.63	0.00	0.00	0.00	0.00
2,800.00	24.92	80.90	2,637.82	177.15	804.28	822.76	0.00	0.00	0.00	0.00
2,900.00	24.92	80.90	2,728.51	183.81	845.89	864.89	0.00	0.00	0.00	0.00
3,000.00	24.92	80.90	2,819.20	190.47	887.49	907.02	0.00	0.00	0.00	0.00
3,100.00	24.92	80.90	2,909.89	197.13	929.10	949.15	0.00	0.00	0.00	0.00
3,200.00	24.92	80.90	3,000.58	203.79	970.70	991.29	0.00	0.00	0.00	0.00
3,300.00	24.92	80.90	3,091.27	210.45	1,012.31	1,033.42	0.00	0.00	0.00	0.00
24.92 Inclination										
3,400.00	24.92	80.90	3,181.96	217.12	1,053.91	1,075.55	0.00	0.00	0.00	0.00
3,500.00	24.92	80.90	3,272.65	223.78	1,095.52	1,117.68	0.00	0.00	0.00	0.00
3,600.00	24.92	80.90	3,363.34	230.44	1,137.12	1,159.81	0.00	0.00	0.00	0.00
3,700.00	24.92	80.90	3,454.03	237.10	1,178.73	1,201.94	0.00	0.00	0.00	0.00
3,800.00	24.92	80.90	3,544.72	243.76	1,220.33	1,244.07	0.00	0.00	0.00	0.00
3,900.00	24.92	80.90	3,635.41	250.43	1,261.94	1,286.20	0.00	0.00	0.00	0.00
4,000.00	24.92	80.90	3,726.10	257.09	1,303.54	1,328.33	0.00	0.00	0.00	0.00
4,100.00	24.92	80.90	3,816.79	263.75	1,345.15	1,370.46	0.00	0.00	0.00	0.00
4,200.00	24.92	80.90	3,907.48	270.41	1,386.75	1,412.60	0.00	0.00	0.00	0.00
4,300.00	24.92	80.90	3,998.17	277.07	1,428.36	1,454.73	0.00	0.00	0.00	0.00
4,400.00	24.92	80.90	4,088.86	283.73	1,469.96	1,496.86	0.00	0.00	0.00	0.00

Plan Report for Rulison Federal 20-32B - Plan #1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
4,500.00	24.92	80.90	4,179.55	290.40	1,511.57	1,538.99	0.00	0.00	0.00	0.00
4,600.00	24.92	80.90	4,270.24	297.06	1,553.17	1,581.12	0.00	0.00	0.00	0.00
4,700.00	24.92	80.90	4,360.93	303.72	1,594.78	1,623.25	0.00	0.00	0.00	0.00
4,800.00	24.92	80.90	4,451.62	310.38	1,636.38	1,665.38	0.00	0.00	0.00	0.00
4,900.00	24.92	80.90	4,542.31	317.04	1,677.99	1,707.51	0.00	0.00	0.00	0.00
5,000.00	24.92	80.90	4,632.99	323.70	1,719.60	1,749.64	0.00	0.00	0.00	0.00
5,100.00	24.92	80.90	4,723.68	330.37	1,761.20	1,791.77	0.00	0.00	0.00	0.00
5,200.00	24.92	80.90	4,814.37	337.03	1,802.81	1,833.91	0.00	0.00	0.00	0.00
5,300.00	24.92	80.90	4,905.06	343.69	1,844.41	1,876.04	0.00	0.00	0.00	0.00
5,379.93	24.92	80.90	4,977.55	349.01	1,877.67	1,909.71	0.00	0.00	0.00	0.00
Begin Drop at 5379.93ft										
5,400.00	24.62	80.90	4,995.78	350.34	1,885.97	1,918.12	1.50	-1.50	0.00	180.00
5,500.00	23.12	80.90	5,087.22	356.74	1,925.92	1,958.58	1.50	-1.50	0.00	180.00
5,600.00	21.62	80.90	5,179.69	362.76	1,963.50	1,996.63	1.50	-1.50	0.00	180.00
5,700.00	20.12	80.90	5,273.13	368.39	1,998.67	2,032.25	1.50	-1.50	0.00	180.00
5,800.00	18.62	80.90	5,367.47	373.63	2,031.42	2,065.41	1.50	-1.50	0.00	180.00
5,900.00	17.12	80.90	5,462.64	378.48	2,061.72	2,096.09	1.50	-1.50	0.00	180.00
6,000.00	15.62	80.90	5,558.59	382.94	2,089.55	2,124.27	1.50	-1.50	0.00	180.00
6,100.00	14.12	80.90	5,655.23	387.00	2,114.88	2,149.93	1.50	-1.50	0.00	180.00
6,200.00	12.62	80.90	5,752.52	390.65	2,137.71	2,173.05	1.50	-1.50	0.00	180.00
Drop Rate = 1.50°/100ft										
6,300.00	11.12	80.90	5,850.38	393.90	2,158.02	2,193.61	1.50	-1.50	0.00	-180.00
6,400.00	9.62	80.90	5,948.74	396.75	2,175.79	2,211.61	1.50	-1.50	0.00	180.00
6,500.00	8.12	80.90	6,047.55	399.19	2,191.02	2,227.02	1.50	-1.50	0.00	180.00
6,600.00	6.62	80.90	6,146.72	401.21	2,203.68	2,239.85	1.50	-1.50	0.00	180.00
6,700.00	5.12	80.90	6,246.19	402.83	2,213.78	2,250.07	1.50	-1.50	0.00	180.00
6,800.00	3.62	80.90	6,345.90	404.04	2,221.30	2,257.69	1.50	-1.50	0.00	180.00
6,900.00	2.12	80.90	6,445.77	404.83	2,226.24	2,262.69	1.50	-1.50	0.00	180.00
7,000.00	0.62	80.90	6,545.74	405.20	2,228.60	2,265.08	1.50	-1.50	0.00	180.00
7,041.26	0.00	0.00	6,587.00	405.24	2,228.82	2,265.30	1.50	-1.50	0.00	-180.00
End Drop at 7041.26ft - Williams Fork - Rulison Federal 20-32B Plan #1 Driller's Tgt										
7,100.00	0.05	243.44	6,645.74	405.23	2,228.80	2,265.28	0.08	0.08	0.00	243.44
7,200.00	0.13	243.44	6,745.74	405.16	2,228.66	2,265.14	0.08	0.08	0.00	0.00
7,300.00	0.21	243.44	6,845.74	405.03	2,228.40	2,264.86	0.08	0.08	0.00	0.00
7,400.00	0.29	243.44	6,945.74	404.84	2,228.02	2,264.44	0.08	0.08	0.00	0.00
7,500.00	0.37	243.44	7,045.73	404.58	2,227.51	2,263.90	0.08	0.08	0.00	0.00
7,600.00	0.45	243.44	7,145.73	404.27	2,226.87	2,263.22	0.08	0.08	0.00	0.00
7,700.00	0.53	243.44	7,245.73	403.89	2,226.11	2,262.40	0.08	0.08	0.00	0.00
7,800.00	0.61	243.44	7,345.72	403.44	2,225.23	2,261.45	0.08	0.08	0.00	0.00
7,859.28	0.65	243.44	7,405.00	403.15	2,224.64	2,260.83	0.08	0.08	0.00	0.00
Top of Gas										
7,900.00	0.69	243.44	7,445.72	402.94	2,224.22	2,260.37	0.08	0.08	0.00	0.00
8,000.00	0.77	243.44	7,545.71	402.37	2,223.08	2,259.16	0.08	0.08	0.00	0.00
8,100.00	0.85	243.44	7,645.70	401.74	2,221.82	2,257.81	0.08	0.08	0.00	0.00
8,200.00	0.93	243.44	7,745.69	401.05	2,220.44	2,256.32	0.08	0.08	0.00	0.00
8,300.00	1.01	243.44	7,845.67	400.29	2,218.93	2,254.71	0.08	0.08	0.00	0.00
8,400.00	1.09	243.44	7,945.66	399.48	2,217.29	2,252.96	0.08	0.08	0.00	0.00
8,500.00	1.17	243.44	8,045.64	398.60	2,215.53	2,251.07	0.08	0.08	0.00	0.00
8,600.00	1.25	243.44	8,145.61	397.66	2,213.65	2,249.05	0.08	0.08	0.00	0.00
8,700.00	1.33	243.44	8,245.59	396.65	2,211.64	2,246.90	0.08	0.08	0.00	0.00
8,800.00	1.41	243.44	8,345.56	395.58	2,209.51	2,244.62	0.08	0.08	0.00	0.00
8,900.00	1.49	243.44	8,445.53	394.46	2,207.25	2,242.20	0.08	0.08	0.00	0.00
9,000.00	1.57	243.44	8,545.49	393.26	2,204.86	2,239.65	0.08	0.08	0.00	0.00
9,068.73	1.62	243.44	8,614.20	392.41	2,203.15	2,237.81	0.08	0.08	0.00	0.00
9,100.00	1.60	243.44	8,645.45	392.02	2,202.37	2,236.97	0.08	-0.08	0.00	180.00
9,200.00	1.51	243.44	8,745.42	390.80	2,199.94	2,234.37	0.08	-0.08	0.00	180.00
9,300.00	1.43	243.44	8,845.38	389.66	2,197.65	2,231.92	0.08	-0.08	0.00	180.00
9,400.00	1.34	243.44	8,945.35	388.58	2,195.49	2,229.60	0.08	-0.08	0.00	180.00
9,500.00	1.26	243.44	9,045.33	387.56	2,193.46	2,227.43	0.08	-0.08	0.00	180.00

Plan Report for Rulison Federal 20-32B - Plan #1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
9,600.00	1.17	243.44	9,145.31	386.61	2,191.56	2,225.40	0.08	-0.08	0.00	180.00
9,632.70	1.15	243.44	9,178.00	386.32	2,190.97	2,224.76	0.08	-0.08	0.00	180.00
Cameo										
9,700.00	1.09	243.44	9,245.29	385.73	2,189.79	2,223.51	0.08	-0.08	0.00	-180.00
9,800.00	1.00	243.44	9,345.27	384.91	2,188.16	2,221.75	0.08	-0.08	0.00	180.00
9,900.00	0.92	243.44	9,445.26	384.16	2,186.66	2,220.15	0.08	-0.08	0.00	180.00
10,000.00	0.84	243.44	9,545.24	383.48	2,185.29	2,218.68	0.08	-0.08	0.00	180.00
10,092.76	0.76	243.44	9,638.00	382.90	2,184.13	2,217.44	0.08	-0.08	0.00	-180.00
Rollins										
10,100.00	0.75	243.44	9,645.23	382.86	2,184.05	2,217.35	0.08	-0.08	0.00	180.00
10,200.00	0.67	243.44	9,745.23	382.30	2,182.94	2,216.16	0.08	-0.08	0.00	180.00
10,300.00	0.58	243.44	9,845.22	381.82	2,181.96	2,215.12	0.08	-0.08	0.00	180.00
10,400.00	0.50	243.44	9,945.22	381.39	2,181.12	2,214.21	0.08	-0.08	0.00	180.00
10,431.78	0.47	243.44	9,977.00	381.27	2,180.88	2,213.96	0.08	-0.08	0.00	-180.00
Cozzette										
10,500.00	0.41	243.44	10,045.21	381.04	2,180.41	2,213.45	0.08	-0.08	0.00	180.00
10,600.00	0.33	243.44	10,145.21	380.75	2,179.83	2,212.83	0.08	-0.08	0.00	180.00
10,700.00	0.25	243.44	10,245.21	380.52	2,179.38	2,212.35	0.08	-0.08	0.00	180.00
10,710.79	0.24	243.44	10,256.00	380.50	2,179.34	2,212.30	0.08	-0.08	0.00	-180.00
Corcoran										
10,800.00	0.16	243.44	10,345.21	380.36	2,179.06	2,212.01	0.08	-0.08	0.00	180.00
10,840.79	0.13	243.44	10,386.00	380.32	2,178.97	2,211.91	0.08	-0.08	0.00	180.00
Mancos										
10,900.00	0.08	243.44	10,445.21	380.27	2,178.87	2,211.81	0.08	-0.08	0.00	-180.00
10,990.79	0.00	0.00	10,536.00	380.24	2,178.82	2,211.75	0.08	-0.08	0.00	180.00

Total Depth = 10990.79ft - Rulison Federal 20-32B Plan #1 BH Tgt

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
225.00	225.00	0.00	0.00	Kickoff at 225.00ft
835.00	830.40	19.99	61.53	Build Rate = 2.00°/100ft
1,447.50	1,410.73	79.39	244.33	End Build / Begin Turn at 1447.50ft
1,575.00	1,526.73	93.71	295.27	Turn Rate = 1.50°/100ft
1,697.14	1,637.64	103.68	345.43	End Turn at 1697.14ft
3,300.00	3,091.27	210.45	1,012.31	24.92 Inclination
5,379.93	4,977.55	349.01	1,877.67	Begin Drop at 5379.93ft
6,200.00	5,752.52	390.65	2,137.71	Drop Rate = 1.50°/100ft
7,041.26	6,587.00	405.24	2,228.82	End Drop at 7041.26ft
10,990.79	10,536.00	380.24	2,178.82	Total Depth = 10990.79ft

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	Rulison Federal 20-32B Plan #1 BH Tgt	80.10	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	10,990.79	Plan #1 Proposal	MWD

Plan Report for Rulison Federal 20-32B - Plan #1 Proposal

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,500.00	2,365.75	8 5/8" Casing Pt.	8-5/8	11

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,041.26	6,587.00	Williams Fork		0.00	
7,859.28	7,405.00	Top of Gas		0.00	
9,632.70	9,178.00	Cameo		0.00	
10,092.76	9,638.00	Rollins		0.00	
10,431.78	9,977.00	Cozzette		0.00	
10,710.79	10,256.00	Corcoran		0.00	
10,840.79	10,386.00	Mancos		0.00	

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Rulison Federal 20-32B Plan #1 Driller's Tgt	6,587.00	405.24	2,228.82	Rectangle
Rulison Federal 20-32B Plan #1 Zone Tgt	7,405.00	380.24	2,178.82	Rectangle
Rulison Federal 20-32B Plan #1 BH Tgt	10,536.00	380.24	2,178.82	Point

North Reference Sheet for Sec. 20-T7S-R94W - Rulison Federal 20-32B - Plan #1

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

Vertical Depths are relative to RKB 25' @ 7931.00ft (Original Well Elev). Northing and Easting are relative to Rulison Federal 20-32B

Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -105.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:39° 45' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99995194

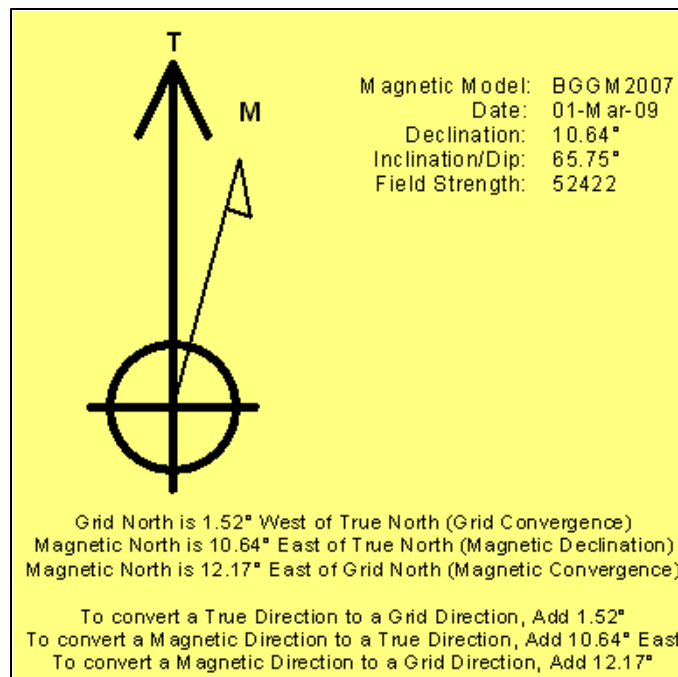
Grid Coordinates of Well: 589,022.77 ft N, 1,317,924.03 ft E

Geographical Coordinates of Well: 39° 25' 32.79" N, 107° 54' 53.29" W

Grid Convergence at Surface is: -1.52°

Based upon Minimum Curvature type calculations, at a Measured Depth of 10,990.79ft
the Bottom Hole Displacement is 2,211.75ft in the Direction of 80.10° (True).

Magnetic Convergence at surface is: -12.17° (1 March 2009, , BGGM2007)



Project: Garfield County, CO
Site: Sec. 20-T7S-R94W
Well: Rulison Federal 20-32B
Wellbore: Plan #1
Plan: Plan #1 Proposal

Noble Energy

HALLIBURTON

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	225.00	0.00	0.00	225.00	0.00	0.00	0.00	0.00	0.00
3	1447.50	24.45	72.00	1410.73	79.39	244.33	2.00	72.00	254.34
4	1697.14	24.92	80.90	1637.64	103.68	345.43	1.50	86.86	358.11
5	5379.93	24.92	80.90	4977.56	349.01	1877.67	0.00	0.00	1909.71
6	7041.26	0.00	0.00	6587.00	405.24	2228.82	1.50	180.00	2265.30
7	9068.73	1.62	243.44	8614.20	392.41	2203.15	0.08	243.44	2237.81
8	10990.79	0.00	0.00	10536.00	380.24	2178.82	0.08	180.00	2211.75

Rulison Federal 20-32B Plan #1 Driller's Tgt
Rulison Federal 20-32B Plan #1 BH Tgt

WELL DETAILS: Rulison Federal 20-32B

Northing	Easting	Ground Level: 7906.00 Latitude	Longitude
589022.77	1317924.03	39° 25' 32.795 N	107° 54' 53.293 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
6587.00	7041.26	Williams Fork
7405.00	7859.28	Top of Gas
9178.00	9632.70	Cameo
9638.00	10092.76	Rollins
9977.00	10431.78	Cozzette
10256.00	10710.79	Corcoran
10386.00	10840.79	Mancos

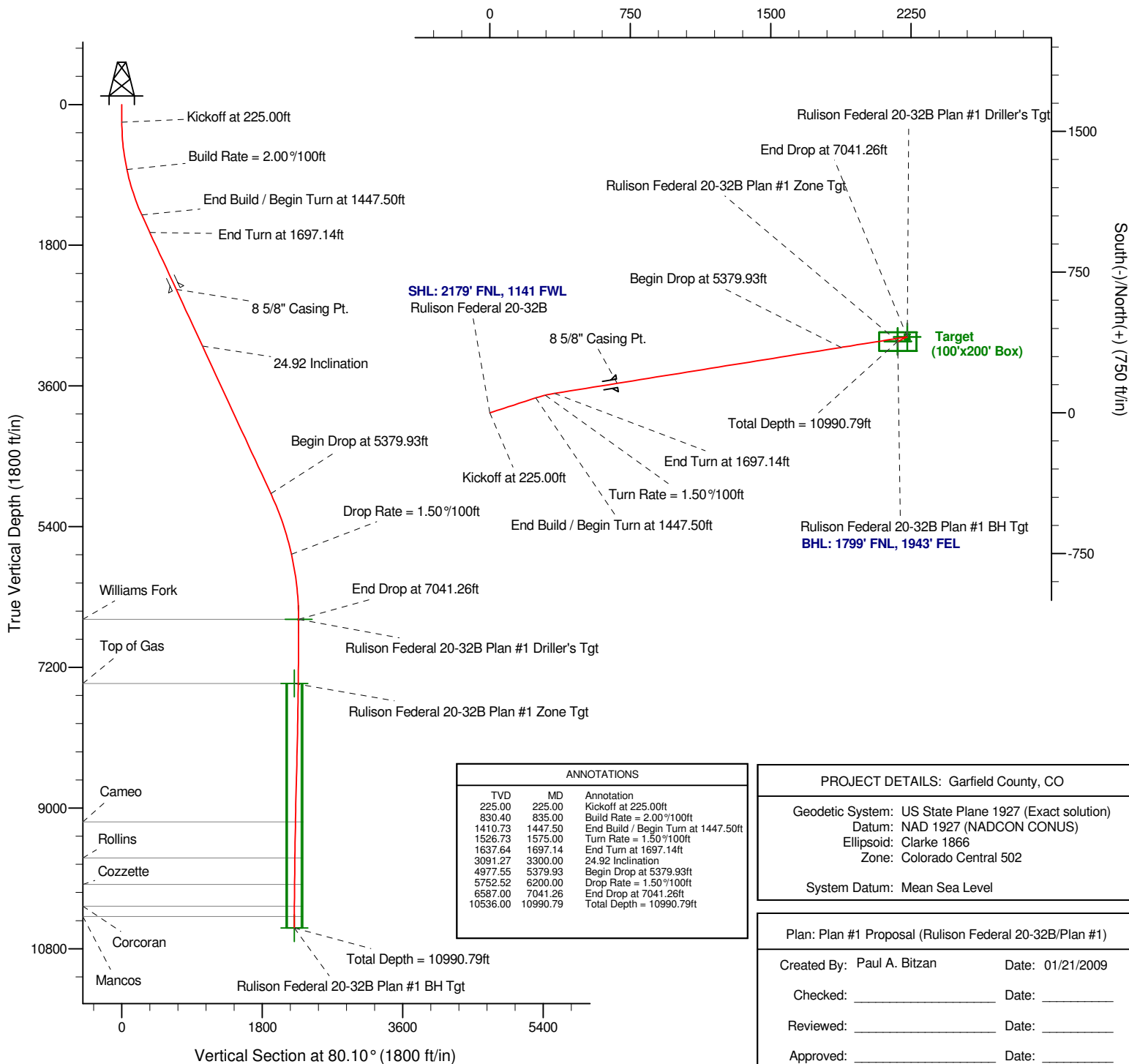
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Rulison Federal 20-32B Plan #1 Driller's Tgt	6587.00	405.24	2228.82	Rectangle (Sides: L25.00 W25.00)
Rulison Federal 20-32B Plan #1 Zone Tgt	7405.00	380.24	2178.82	Rectangle (Sides: L100.00 W200.00)
Rulison Federal 20-32B Plan #1 BH Tgt	10536.00	380.24	2178.82	Point



Azimuths to True North
Magnetic North: 10.64°
Magnetic Field
Strength: 52422.0nT
Dip Angle: 65.75°
Date: 3/1/2009
Model: BGGM2007

West(-)/East(+) (750 ft/in)



ANNOTATIONS

TVD	MD	Annotation
225.00	225.00	Kickoff at 225.00ft
830.40	835.00	Build Rate = 2.00%/100ft
1410.73	1447.50	End Build / Begin Turn at 1447.50ft
1526.73	1575.00	Turn Rate = 1.50%/100ft
1637.64	1697.14	End Turn at 1697.14ft
3091.27	3300.00	24.92 Inclination
4977.55	5379.93	Begin Drop at 5379.93ft
5752.52	6200.00	Drop Rate = 1.50%/100ft
6587.00	7041.26	End Drop at 7041.26ft
10536.00	10990.79	Total Depth = 10990.79ft

PROJECT DETAILS: Garfield County, CO

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Colorado Central 502

System Datum: Mean Sea Level

Plan: Plan #1 Proposal (Rulison Federal 20-32B/Plan #1)

Created By: Paul A. Bitzan Date: 01/21/2009

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____