

# **Gunnison Energy Corporation**

**Gunnison Co., CO**

**Sec 18-T12S-R89W**

**Hotchkiss Federal 1289 #18-H2**

**Hz**

**Plan: Plan #2**

## **Standard Planning Report (Field)**

**06 October, 2011**



# Phoenix Technology Services

## Planning Report



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well Hotchkiss Federal 1289 #18-H2
<b>Company:</b>	Gunnison Energy Corporation	<b>TVD Reference:</b>	WELL @ 7350.0ft (Original Well Elev)
<b>Project:</b>	Gunnison Co., CO	<b>MD Reference:</b>	WELL @ 7350.0ft (Original Well Elev)
<b>Site:</b>	Sec 18-T12S-R89W	<b>North Reference:</b>	True
<b>Well:</b>	Hotchkiss Federal 1289 #18-H2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #2		

<b>Project</b>	Gunnison Co., CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Southern Zone		

<b>Site</b>	Sec 18-T12S-R89W			
<b>Site Position:</b>		<b>Northing:</b>	1,861,335.44 ft	<b>Latitude:</b> 39° 1' 2.007 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,466,381.68 ft	<b>Longitude:</b> 107° 22' 40.275 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>		<b>Grid Convergence:</b> -1.15 °

<b>Well</b>	Hotchkiss Federal 1289 #18-H2			
<b>Well Position</b>	<b>+N/-S</b>	85.0 ft	<b>Northing:</b>	1,861,418.96 ft
	<b>+E/-W</b>	70.2 ft	<b>Easting:</b>	2,466,453.58 ft
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 7,330.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010-14	09/16/11	9.98	65.45	52,032

<b>Design</b>	Plan #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	127.38

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,381.5	0.00	0.00	6,381.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,667.2	90.00	90.00	7,200.0	0.0	818.5	7.00	7.00	0.00	90.00	
7,689.7	90.00	90.00	7,200.0	0.0	841.1	0.00	0.00	0.00	0.00	Hotchkiss Fed 1289 #
10,559.5	91.00	147.39	7,172.7	-1,320.9	3,254.4	2.00	0.03	2.00	88.81	
13,265.8	91.00	147.39	7,125.5	-3,600.1	4,712.6	0.00	0.00	0.00	0.00	Hotchkiss Fed 1289 #

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well Hotchkiss Federal 1289 #18-H2
<b>Company:</b>	Gunnison Energy Corporation	<b>TVD Reference:</b>	WELL @ 7350.0ft (Original Well Elev)
<b>Project:</b>	Gunnison Co., CO	<b>MD Reference:</b>	WELL @ 7350.0ft (Original Well Elev)
<b>Site:</b>	Sec 18-T12S-R89W	<b>North Reference:</b>	True
<b>Well:</b>	Hotchkiss Federal 1289 #18-H2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	H2		
<b>Design:</b>	Plan #2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	-7,350.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	-7,250.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	-7,150.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	-7,050.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	-6,950.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	-6,850.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	-6,750.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	-6,650.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	-6,550.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	-6,450.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	-6,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	-6,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	-6,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	-6,050.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	-5,950.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	-5,850.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	-5,750.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	-5,650.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	-5,550.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	-5,450.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	-5,350.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	-5,250.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	-5,150.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	-5,050.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	-4,950.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	-4,850.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	-4,750.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	-4,650.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	-4,550.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	-4,450.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	-4,350.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	-4,250.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	-4,150.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	-4,050.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	-3,950.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	-3,850.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	-3,750.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	-3,650.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	-3,550.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	-3,450.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	-3,350.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	-3,250.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	-3,150.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	-3,050.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	-2,950.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	-2,850.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	-2,750.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	-2,650.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	-2,550.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	-2,450.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	-2,350.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	-2,250.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	-2,150.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	-2,050.0	0.0	0.0	0.0	0.00	0.00	0.00

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<b>Project:</b>	Gunnison Co., CO	<b>MD Reference:</b>	WELL @ 7350.0ft (Original Well Elev)
<b>Site:</b>	Sec 18-T12S-R89W	<b>North Reference:</b>	True
<b>Well:</b>	Hotchkiss Federal 1289 #18-H2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	H2		
<b>Design:</b>	Plan #2		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.0	0.00	0.00	5,400.0	-1,950.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	-1,850.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	-1,750.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	-1,650.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	-1,550.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	-1,450.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	-1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	-1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	-1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	-1,050.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP @ 6381.5' MD; Build 7°/100'</b>										
6,381.5	0.00	0.00	6,381.5	-968.5	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	1.30	90.00	6,400.0	-950.0	0.0	0.2	0.2	7.00	7.00	0.00
6,500.0	8.30	90.00	6,499.6	-850.4	0.0	8.6	6.8	7.00	7.00	0.00
6,600.0	15.30	90.00	6,597.4	-752.6	0.0	29.0	23.0	7.00	7.00	0.00
6,700.0	22.30	90.00	6,692.0	-658.0	0.0	61.2	48.6	7.00	7.00	0.00
6,800.0	29.30	90.00	6,782.0	-568.0	0.0	104.7	83.2	7.00	7.00	0.00
6,900.0	36.30	90.00	6,866.0	-484.0	0.0	158.8	126.2	7.00	7.00	0.00
7,000.0	43.30	90.00	6,942.8	-407.2	0.0	222.8	177.0	7.00	7.00	0.00
7,100.0	50.30	90.00	7,011.2	-338.8	0.0	295.6	234.9	7.00	7.00	0.00
7,200.0	57.30	90.00	7,070.2	-279.8	0.0	376.3	299.0	7.00	7.00	0.00
7,300.0	64.30	90.00	7,119.0	-231.0	0.0	463.5	368.3	7.00	7.00	0.00
7,400.0	71.30	90.00	7,156.8	-193.2	0.0	556.0	441.8	7.00	7.00	0.00
7,500.0	78.30	90.00	7,183.0	-167.0	0.0	652.5	518.5	7.00	7.00	0.00
7,600.0	85.30	90.00	7,197.2	-152.8	0.0	751.4	597.1	7.00	7.00	0.00
<b>Land @ 90° Inc - 7" Casing Point</b>										
7,667.2	90.00	90.00	7,200.0	-150.0	0.0	818.5	650.4	7.00	7.00	0.00
<b>Turn 2°/100' - Hotchkiss Fed 1289 #18-H2 Landing Pt</b>										
7,689.7	90.00	90.00	7,200.0	-150.0	0.0	841.1	668.3	0.00	0.00	0.00
7,700.0	90.00	90.21	7,200.0	-150.0	0.0	851.3	676.5	2.00	0.04	2.00
7,800.0	90.05	92.20	7,200.0	-150.0	-2.1	951.3	757.2	2.00	0.04	2.00
7,900.0	90.09	94.20	7,199.8	-150.2	-7.7	1,051.1	839.9	2.00	0.04	2.00
8,000.0	90.13	96.20	7,199.7	-150.3	-16.8	1,150.7	924.6	2.00	0.04	2.00
8,100.0	90.17	98.20	7,199.4	-150.6	-29.3	1,249.9	1,011.0	2.00	0.04	2.00
8,200.0	90.21	100.20	7,199.1	-150.9	-45.3	1,348.6	1,099.2	2.00	0.04	2.00
8,300.0	90.25	102.20	7,198.7	-151.3	-64.7	1,446.7	1,188.9	2.00	0.04	2.00
8,400.0	90.29	104.20	7,198.2	-151.8	-87.6	1,544.1	1,280.1	2.00	0.04	2.00
8,500.0	90.33	106.20	7,197.6	-152.4	-113.8	1,640.5	1,372.7	2.00	0.04	2.00
8,600.0	90.37	108.20	7,197.0	-153.0	-143.4	1,736.1	1,466.6	2.00	0.04	2.00
8,700.0	90.41	110.20	7,196.4	-153.6	-176.3	1,830.5	1,561.6	2.00	0.04	2.00
8,800.0	90.45	112.20	7,195.6	-154.4	-212.4	1,923.7	1,657.6	2.00	0.04	2.00
8,900.0	90.49	114.20	7,194.8	-155.2	-251.8	2,015.6	1,754.6	2.00	0.04	2.00
9,000.0	90.52	116.20	7,193.9	-156.1	-294.4	2,106.1	1,852.3	2.00	0.04	2.00
9,100.0	90.56	118.20	7,193.0	-157.0	-340.1	2,195.0	1,950.7	2.00	0.04	2.00
9,200.0	90.60	120.20	7,192.0	-158.0	-388.9	2,282.3	2,049.7	2.00	0.04	2.00
9,300.0	90.63	122.20	7,190.9	-159.1	-440.7	2,367.8	2,149.1	2.00	0.04	2.00
9,400.0	90.67	124.20	7,189.7	-160.3	-495.4	2,451.5	2,248.8	2.00	0.03	2.00
9,500.0	90.70	126.20	7,188.6	-161.4	-553.0	2,533.2	2,348.7	2.00	0.03	2.00
9,600.0	90.73	128.20	7,187.3	-162.7	-613.5	2,612.9	2,448.7	2.00	0.03	2.00
9,700.0	90.77	130.20	7,186.0	-164.0	-676.7	2,690.3	2,548.7	2.00	0.03	2.00
9,800.0	90.80	132.20	7,184.6	-165.4	-742.6	2,765.6	2,648.4	2.00	0.03	2.00
9,900.0	90.83	134.20	7,183.2	-166.8	-811.0	2,838.5	2,747.9	2.00	0.03	2.00
10,000.0	90.86	136.20	7,181.7	-168.3	-881.9	2,908.9	2,846.9	2.00	0.03	2.00

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<b>Project:</b>	Gunnison Co., CO	<b>MD Reference:</b>	WELL @ 7350.0ft (Original Well Elev)
<b>Site:</b>	Sec 18-T12S-R89W	<b>North Reference:</b>	True
<b>Well:</b>	Hotchkiss Federal 1289 #18-H2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	H2		
<b>Design:</b>	Plan #2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,100.0	90.88	138.20	7,180.2	-169.8	-955.3	2,976.9	2,945.5	2.00	0.03	2.00
10,200.0	90.91	140.20	7,178.7	-171.3	-1,031.0	3,042.2	3,043.3	2.00	0.03	2.00
10,300.0	90.94	142.20	7,177.1	-172.9	-1,108.9	3,104.8	3,140.4	2.00	0.03	2.00
10,400.0	90.96	144.20	7,175.4	-174.6	-1,189.0	3,164.7	3,236.6	2.00	0.02	2.00
10,500.0	90.99	146.20	7,173.7	-176.3	-1,271.1	3,221.8	3,331.8	2.00	0.02	2.00
End Turn										
10,559.5	91.00	147.39	7,172.7	-177.3	-1,320.8	3,254.4	3,387.9	2.00	0.02	2.00
10,600.0	91.00	147.39	7,172.0	-178.0	-1,354.9	3,276.2	3,425.9	0.00	0.00	0.00
10,700.0	91.00	147.39	7,170.2	-179.8	-1,439.2	3,330.1	3,519.9	0.00	0.00	0.00
10,800.0	91.00	147.39	7,168.5	-181.5	-1,523.4	3,384.0	3,613.8	0.00	0.00	0.00
10,900.0	91.00	147.39	7,166.7	-183.3	-1,607.6	3,437.8	3,707.8	0.00	0.00	0.00
11,000.0	91.00	147.39	7,165.0	-185.0	-1,691.8	3,491.7	3,801.7	0.00	0.00	0.00
11,100.0	91.00	147.39	7,163.2	-186.8	-1,776.1	3,545.6	3,895.7	0.00	0.00	0.00
11,200.0	91.00	147.39	7,161.5	-188.5	-1,860.3	3,599.5	3,989.6	0.00	0.00	0.00
11,300.0	91.00	147.39	7,159.8	-190.2	-1,944.5	3,653.4	4,083.6	0.00	0.00	0.00
11,400.0	91.00	147.39	7,158.0	-192.0	-2,028.7	3,707.3	4,177.5	0.00	0.00	0.00
11,500.0	91.00	147.39	7,156.3	-193.7	-2,113.0	3,761.1	4,271.5	0.00	0.00	0.00
11,600.0	91.00	147.39	7,154.5	-195.5	-2,197.2	3,815.0	4,365.4	0.00	0.00	0.00
11,700.0	91.00	147.39	7,152.8	-197.2	-2,281.4	3,868.9	4,459.4	0.00	0.00	0.00
11,800.0	91.00	147.39	7,151.0	-199.0	-2,365.6	3,922.8	4,553.3	0.00	0.00	0.00
11,900.0	91.00	147.39	7,149.3	-200.7	-2,449.8	3,976.7	4,647.3	0.00	0.00	0.00
12,000.0	91.00	147.39	7,147.6	-202.4	-2,534.1	4,030.6	4,741.2	0.00	0.00	0.00
12,100.0	91.00	147.39	7,145.8	-204.2	-2,618.3	4,084.4	4,835.2	0.00	0.00	0.00
12,200.0	91.00	147.39	7,144.1	-205.9	-2,702.5	4,138.3	4,929.1	0.00	0.00	0.00
12,300.0	91.00	147.39	7,142.3	-207.7	-2,786.7	4,192.2	5,023.1	0.00	0.00	0.00
12,400.0	91.00	147.39	7,140.6	-209.4	-2,871.0	4,246.1	5,117.0	0.00	0.00	0.00
12,500.0	91.00	147.39	7,138.8	-211.2	-2,955.2	4,300.0	5,211.0	0.00	0.00	0.00
12,600.0	91.00	147.39	7,137.1	-212.9	-3,039.4	4,353.9	5,304.9	0.00	0.00	0.00
12,700.0	91.00	147.39	7,135.4	-214.6	-3,123.6	4,407.7	5,398.9	0.00	0.00	0.00
12,800.0	91.00	147.39	7,133.6	-216.4	-3,207.9	4,461.6	5,492.8	0.00	0.00	0.00
12,900.0	91.00	147.39	7,131.9	-218.1	-3,292.1	4,515.5	5,586.8	0.00	0.00	0.00
13,000.0	91.00	147.39	7,130.1	-219.9	-3,376.3	4,569.4	5,680.7	0.00	0.00	0.00
13,100.0	91.00	147.39	7,128.4	-221.6	-3,460.5	4,623.3	5,774.7	0.00	0.00	0.00
13,200.0	91.00	147.39	7,126.6	-223.4	-3,544.7	4,677.2	5,868.6	0.00	0.00	0.00
Hotchkiss Fed 1289 #18-H2 PBHL										
13,265.8	91.00	147.39	7,125.5	-224.5	-3,600.1	4,712.6	5,930.4	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Hotchkiss Fed 1289 #18	0.00	0.00	7,125.5	-3,600.1	4,712.6	1,857,724.84	2,471,092.87	39° 0' 27.264 N	107° 21' 39.695 W
- plan hits target center									
- Point									
Hotchkiss Fed 1289 #18		0.00	7,200.0	0.0	841.1	1,861,402.05	2,467,294.46	39° 1' 2.846 N	107° 22' 28.731 W
- plan hits target center									
- Point									

# Phoenix Technology Services

## Planning Report



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well Hotchkiss Federal 1289 #18-H2
<b>Company:</b>	Gunnison Energy Corporation	<b>TVD Reference:</b>	WELL @ 7350.0ft (Original Well Elev)
<b>Project:</b>	Gunnison Co., CO	<b>MD Reference:</b>	WELL @ 7350.0ft (Original Well Elev)
<b>Site:</b>	Sec 18-T12S-R89W	<b>North Reference:</b>	True
<b>Well:</b>	Hotchkiss Federal 1289 #18-H2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #2		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,667.2	7,200.0	7" Casing Point	7	8-3/4	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
6,381.5	6,381.5	0.0	0.0	KOP @ 6381.5' MD; Build 7°/100'	
7,667.2	7,200.0	0.0	818.5	Land @ 90° Inc	
7,689.7	7,200.0	0.0	841.1	Turn 2°/100'	
10,559.5	7,172.7	-1,320.8	3,254.4	End Turn	
13,265.8	7,125.5	-3,600.2	4,712.6	TD = 13265.8' MD	