



## **Synergy Resources Corp.**

Weld County, CO NAD 83  
SRC Fagerberg 33-12 Pad  
Fagerberg 6C-7-M

OH

Plan: Plan #1

## **Standard Planning Report**

21 March, 2016





## PROJECT DETAILS: Weld County, CO NAD 83

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level  
Local North: True

Project: Weld County, CO NAD 83  
Site: SRC Fagerberg 33-12 Pad  
Well: Fagerberg 6C-7-M  
Wellbore: OH  
Design: Plan #1



Azinuths to True North  
Magnetic North: 8.48°



Magnetic Field  
Strength: 52591.5nT  
Dip Angle: 67.03°  
Date: 3/18/2016  
Model: BGGM2015

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00
1420.26	21.41	355.34	1395.54	196.95	-16.06	2.00	355.34	-16.06
4383.59	21.41	355.34	4154.46	1274.88	-103.94	0.00	0.00	-103.94
5453.85	0.00	0.00	5200.00	1471.83	-120.00	2.00	180.00	-120.00
6859.25	0.00	0.00	6605.40	1471.83	-120.00	0.00	0.00	-120.00
7864.60	90.48	90.00	7242.00	1471.83	521.97	9.00	90.00	521.97
12862.81	90.48	90.00	7200.00	1471.85	5520.00	0.00	0.00	5520.00
12887.03	90.00	90.00	7199.90	1471.85	5544.22	2.00	179.97	5544.22
14838.64	90.00	90.00	7200.00	1471.85	7495.83	0.00	0.00	7495.83

## WELL DETAILS: Fagerberg 6C-7-M

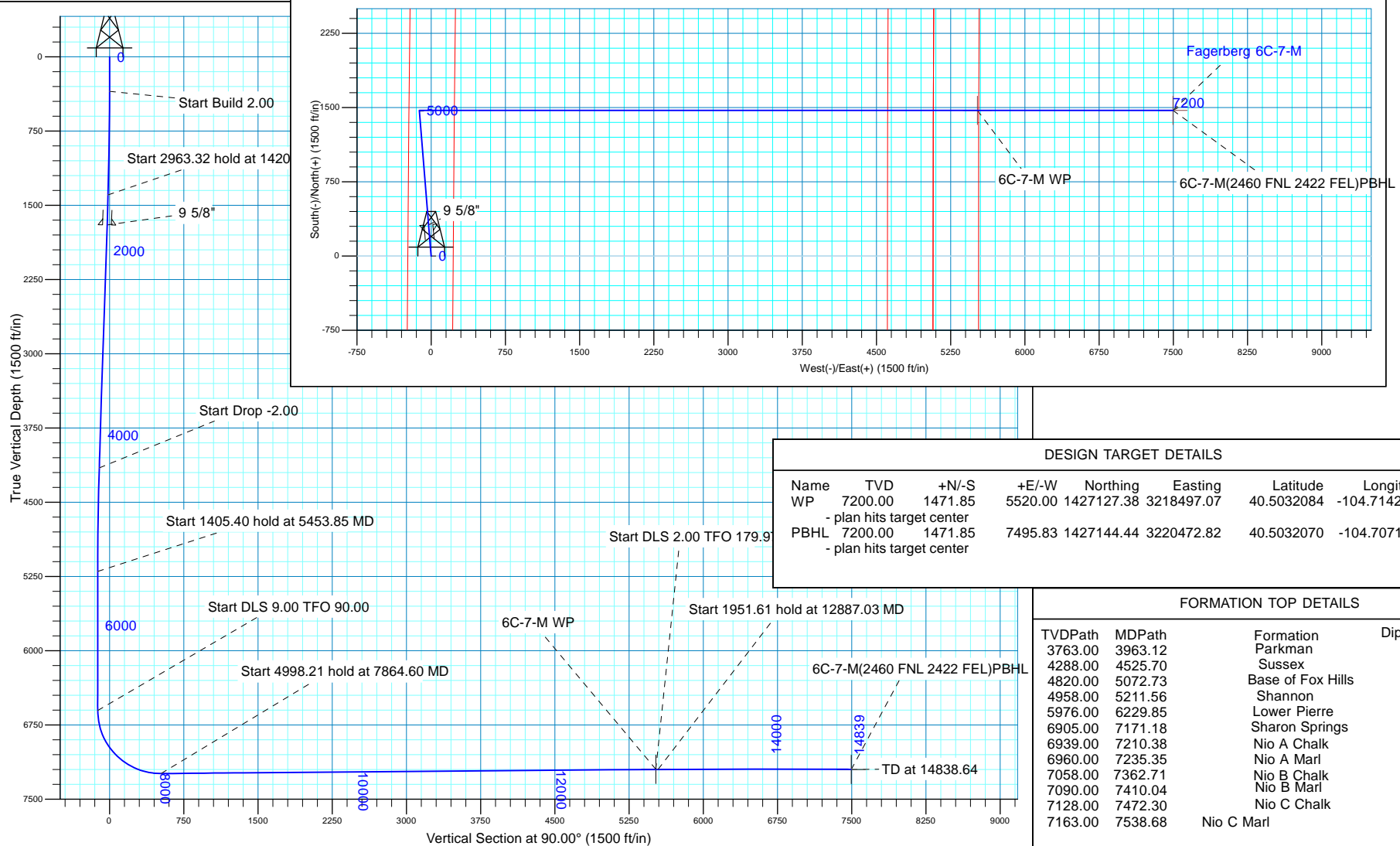
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1425607.91	3212990.00	40.4991700	-104.7341230

Plan: Plan #1 (Fagerberg 6C-7-M/OH)

## CASING DETAILS

Created By: rscott Date: 15:06, March 21 2016

TVD	MD	Name	Size
1700.00	747.28	9 5/8"	9.625

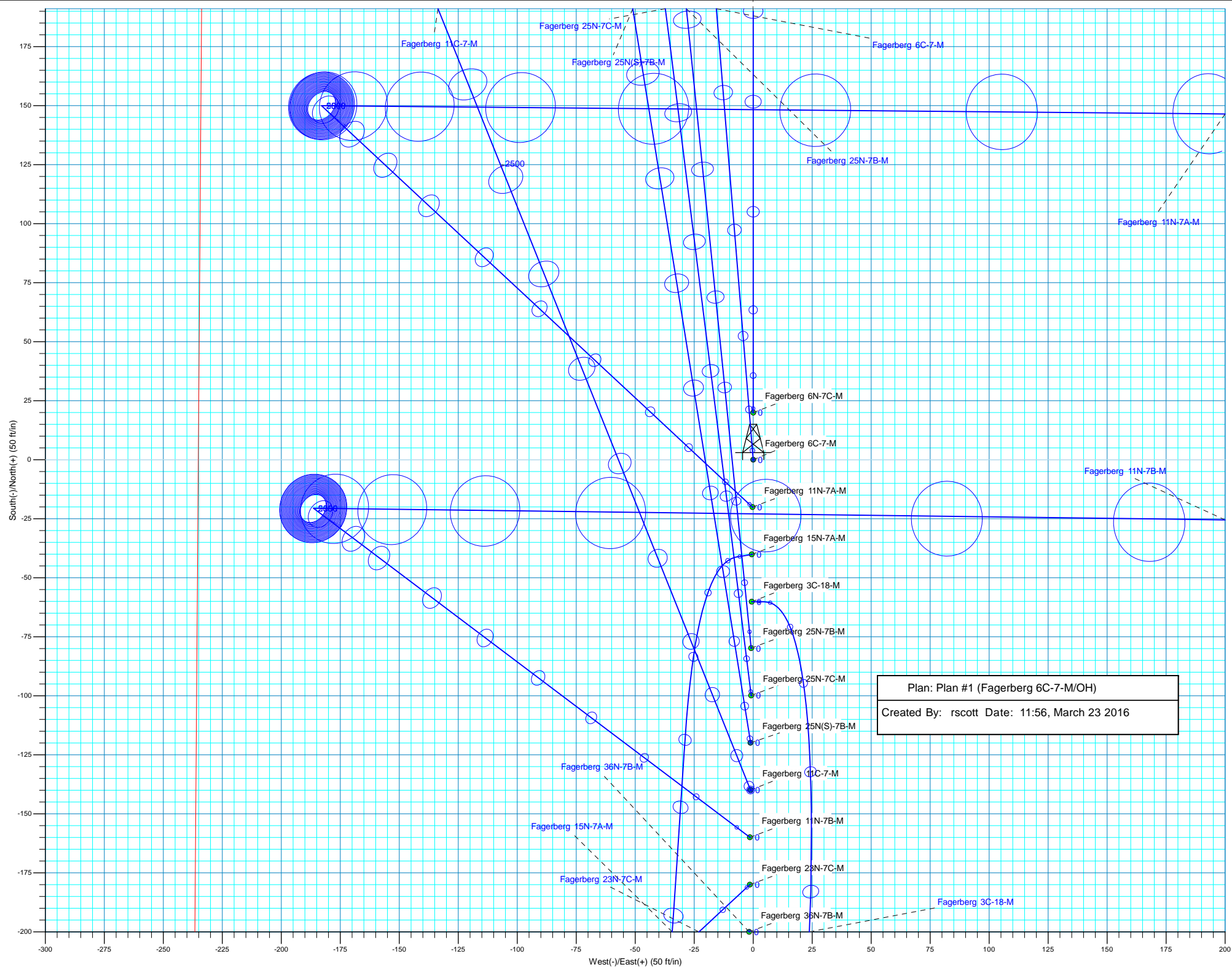


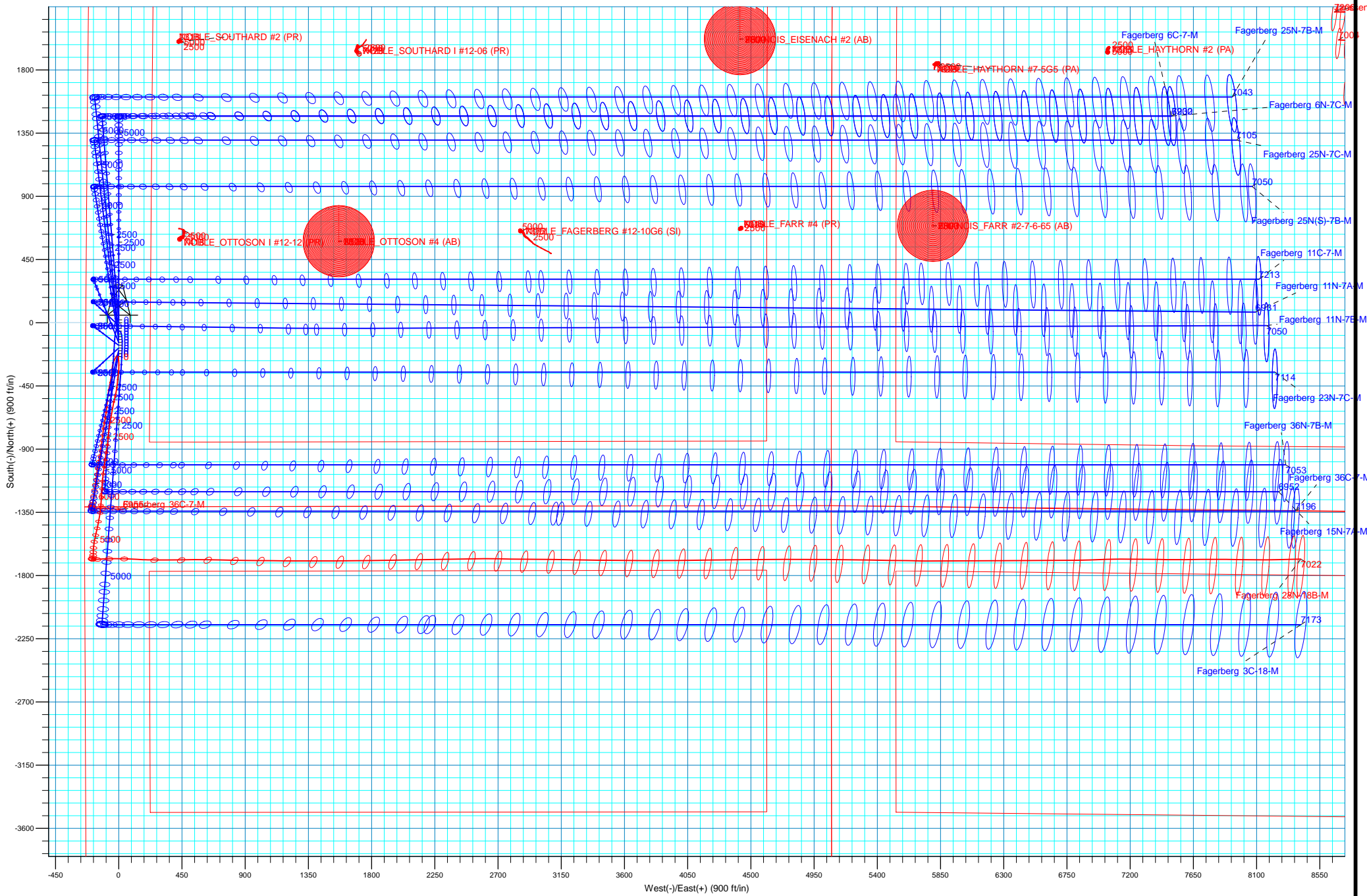
## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
WP	7200.00	1471.85	5520.00	1427127.38	3218497.07	40.5032084	-104.7142731	Point
PBHL	7200.00	1471.85	7495.83	1427144.44	3220472.82	40.5032070	-104.7071680	Point

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipDirInc
3763.00	3963.12	Parkman	21.41
4288.00	4525.70	Sussex	18.56
4820.00	5072.73	Base of Fox Hills	7.62
4958.00	5211.56	Shannon	4.85
5976.00	6229.85	Lower Pierre	0.00
6905.00	7171.18	Sharon Springs	28.07
6939.00	7210.38	Nio A Chalk	31.60
6960.00	7235.35	Nio A Marl	33.85
7058.00	7362.71	Nio B Chalk	45.31
7090.00	7410.04	Nio B Marl	49.57
7128.00	7472.30	Nio C Chalk	55.17
7163.00	7538.68	Nio C Marl	61.15





Plan: Plan #1 (Fagerberg 6C-7-M/OH)

Created By: rscott Date: 12:23, March 23 2016

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Fagerberg 6C-7-M
<b>Company:</b>	Synergy Resources Corp.	<b>TVD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Site:</b>	SRC Fagerberg 33-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Fagerberg 6C-7-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

<b>Project</b>	Weld County, CO NAD 83		
<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 Northern Zone		

Site		SRC Fagerberg 33-12 Pad, SECTION 12 T6N R66W			
Site Position:		Northing:	1,425,367.83 usft	Latitude:	40.4985110
From:	Lat/Long	Easting:	3,212,990.12 usft	Longitude:	-104.7341300
Position Uncertainty:	3.28 ft	Slot Radius:	13.200 in	Grid Convergence:	0.49 °

Well	Fagerberg 6C-7-M, 1311 FSL 235 FWL					
Well Position	+N/-S	240.07 ft	Northing:	1,425,607.91 usft	Latitude:	40.4991700
	+E/-W	1.95 ft	Easting:	3,212,990.00 usft	Longitude:	-104.7341230
Position Uncertainty		3.28 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,800.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2015	3/18/2016	8.48	67.03	52,591

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	90.00

<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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,420.26	21.41	355.34	1,395.54	196.95	-16.06	2.00	2.00	0.00	355.34	
4,383.59	21.41	355.34	4,154.46	1,274.88	-103.94	0.00	0.00	0.00	0.00	
5,453.85	0.00	0.00	5,200.00	1,471.83	-120.00	2.00	-2.00	0.00	180.00	
6,859.25	0.00	0.00	6,605.40	1,471.83	-120.00	0.00	0.00	0.00	0.00	
7,864.60	90.48	90.00	7,242.00	1,471.83	521.97	9.00	9.00	8.95	90.00	
12,862.81	90.48	90.00	7,200.00	1,471.85	5,520.00	0.00	0.00	0.00	0.00	
12,887.03	90.00	90.00	7,199.90	1,471.85	5,544.22	2.00	-2.00	0.00	179.97	
14,838.64	90.00	90.00	7,200.00	1,471.85	7,495.83	0.00	0.00	0.00	0.00	6C-7-M(2460 FNL 24;

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Fagerberg 6C-7-M
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<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Site:</b>	SRC Fagerberg 33-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Fagerberg 6C-7-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
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)
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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	1.00	355.34	400.00	0.43	-0.04	-0.04	2.00	2.00	0.00
500.00	3.00	355.34	499.93	3.91	-0.32	-0.32	2.00	2.00	0.00
600.00	5.00	355.34	599.68	10.87	-0.89	-0.89	2.00	2.00	0.00
700.00	7.00	355.34	699.13	21.28	-1.74	-1.74	2.00	2.00	0.00
800.00	9.00	355.34	798.15	35.15	-2.87	-2.87	2.00	2.00	0.00
900.00	11.00	355.34	896.63	52.46	-4.28	-4.28	2.00	2.00	0.00
1,000.00	13.00	355.34	994.44	73.18	-5.97	-5.97	2.00	2.00	0.00
1,100.00	15.00	355.34	1,091.46	97.29	-7.93	-7.93	2.00	2.00	0.00
1,200.00	17.00	355.34	1,187.58	124.76	-10.17	-10.17	2.00	2.00	0.00
1,300.00	19.00	355.34	1,282.68	155.56	-12.68	-12.68	2.00	2.00	0.00
1,400.00	21.00	355.34	1,376.65	189.65	-15.46	-15.46	2.00	2.00	0.00
1,420.26	21.41	355.34	1,395.54	196.95	-16.06	-16.06	2.00	2.00	0.00
Start 2963.32 hold at 1420.26 MD									
1,500.00	21.41	355.34	1,469.78	225.96	-18.42	-18.42	0.00	0.00	0.00
1,600.00	21.41	355.34	1,562.88	262.33	-21.39	-21.39	0.00	0.00	0.00
1,700.00	21.41	355.34	1,655.98	298.71	-24.35	-24.35	0.00	0.00	0.00
1,747.28	21.41	355.34	1,700.00	315.91	-25.76	-25.76	0.00	0.00	0.00
9 5/8"									
1,800.00	21.41	355.34	1,749.08	335.08	-27.32	-27.32	0.00	0.00	0.00
1,900.00	21.41	355.34	1,842.19	371.46	-30.29	-30.29	0.00	0.00	0.00
2,000.00	21.41	355.34	1,935.29	407.84	-33.25	-33.25	0.00	0.00	0.00
2,100.00	21.41	355.34	2,028.39	444.21	-36.22	-36.22	0.00	0.00	0.00
2,200.00	21.41	355.34	2,121.49	480.59	-39.18	-39.18	0.00	0.00	0.00
2,300.00	21.41	355.34	2,214.59	516.96	-42.15	-42.15	0.00	0.00	0.00
2,400.00	21.41	355.34	2,307.70	553.34	-45.11	-45.11	0.00	0.00	0.00
2,500.00	21.41	355.34	2,400.80	589.71	-48.08	-48.08	0.00	0.00	0.00
2,600.00	21.41	355.34	2,493.90	626.09	-51.05	-51.05	0.00	0.00	0.00
2,700.00	21.41	355.34	2,587.00	662.46	-54.01	-54.01	0.00	0.00	0.00
2,800.00	21.41	355.34	2,680.11	698.84	-56.98	-56.98	0.00	0.00	0.00
2,900.00	21.41	355.34	2,773.21	735.21	-59.94	-59.94	0.00	0.00	0.00
3,000.00	21.41	355.34	2,866.31	771.59	-62.91	-62.91	0.00	0.00	0.00
3,100.00	21.41	355.34	2,959.41	807.97	-65.87	-65.87	0.00	0.00	0.00
3,200.00	21.41	355.34	3,052.51	844.34	-68.84	-68.84	0.00	0.00	0.00
3,300.00	21.41	355.34	3,145.62	880.72	-71.81	-71.81	0.00	0.00	0.00
3,400.00	21.41	355.34	3,238.72	917.09	-74.77	-74.77	0.00	0.00	0.00
3,500.00	21.41	355.34	3,331.82	953.47	-77.74	-77.74	0.00	0.00	0.00
3,600.00	21.41	355.34	3,424.92	989.84	-80.70	-80.70	0.00	0.00	0.00
3,700.00	21.41	355.34	3,518.03	1,026.22	-83.67	-83.67	0.00	0.00	0.00
3,800.00	21.41	355.34	3,611.13	1,062.59	-86.63	-86.63	0.00	0.00	0.00
3,900.00	21.41	355.34	3,704.23	1,098.97	-89.60	-89.60	0.00	0.00	0.00
3,963.12	21.41	355.34	3,763.00	1,121.93	-91.47	-91.47	0.00	0.00	0.00
Parkman									
4,000.00	21.41	355.34	3,797.33	1,135.35	-92.57	-92.57	0.00	0.00	0.00
4,100.00	21.41	355.34	3,890.44	1,171.72	-95.53	-95.53	0.00	0.00	0.00
4,200.00	21.41	355.34	3,983.54	1,208.10	-98.50	-98.50	0.00	0.00	0.00
4,300.00	21.41	355.34	4,076.64	1,244.47	-101.46	-101.46	0.00	0.00	0.00
4,383.59	21.41	355.34	4,154.46	1,274.88	-103.94	-103.94	0.00	0.00	0.00
Start Drop -2.00									

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Fagerberg 6C-7-M
<b>Company:</b>	Synergy Resources Corp.	<b>TVD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Site:</b>	SRC Fagerberg 33-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Fagerberg 6C-7-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
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)
4,400.00	21.08	355.34	4,169.76	1,280.80	-104.43	-104.43	2.00	-2.00	0.00
4,500.00	19.08	355.34	4,263.68	1,315.02	-107.21	-107.21	2.00	-2.00	0.00
4,525.70	18.56	355.34	4,288.00	1,323.28	-107.89	-107.89	2.00	-2.00	0.00
<b>Sussex</b>									
4,600.00	17.08	355.34	4,358.74	1,345.94	-109.74	-109.74	2.00	-2.00	0.00
4,700.00	15.08	355.34	4,454.82	1,373.54	-111.99	-111.99	2.00	-2.00	0.00
4,800.00	13.08	355.34	4,551.81	1,397.78	-113.96	-113.96	2.00	-2.00	0.00
4,900.00	11.08	355.34	4,649.59	1,418.64	-115.66	-115.66	2.00	-2.00	0.00
5,000.00	9.08	355.34	4,748.05	1,436.07	-117.08	-117.08	2.00	-2.00	0.00
5,072.73	7.62	355.34	4,820.00	1,446.60	-117.94	-117.94	2.00	-2.00	0.00
<b>Base of Fox Hills</b>									
5,100.00	7.08	355.34	4,847.05	1,450.08	-118.23	-118.23	2.00	-2.00	0.00
5,200.00	5.08	355.34	4,946.48	1,460.63	-119.09	-119.09	2.00	-2.00	0.00
5,211.56	4.85	355.34	4,958.00	1,461.62	-119.17	-119.17	2.00	-2.00	0.00
<b>Shannon</b>									
5,300.00	3.08	355.34	5,046.22	1,467.71	-119.66	-119.66	2.00	-2.00	0.00
5,400.00	1.08	355.34	5,146.15	1,471.33	-119.96	-119.96	2.00	-2.00	0.00
5,453.85	0.00	0.00	5,200.00	1,471.83	-120.00	-120.00	2.00	-2.00	0.00
<b>Start 1405.40 hold at 5453.85 MD</b>									
5,500.00	0.00	0.00	5,246.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,346.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,446.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,546.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,646.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,000.00	0.00	0.00	5,746.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,100.00	0.00	0.00	5,846.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,200.00	0.00	0.00	5,946.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,229.85	0.00	0.00	5,976.00	1,471.83	-120.00	-120.00	0.00	0.00	0.00
<b>Lower Pierre</b>									
6,300.00	0.00	0.00	6,046.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,146.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,246.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,346.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,446.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,546.15	1,471.83	-120.00	-120.00	0.00	0.00	0.00
6,859.25	0.00	0.00	6,605.40	1,471.83	-120.00	-120.00	0.00	0.00	0.00
<b>Start DLS 9.00 TFO 90.00</b>									
6,900.00	3.67	90.00	6,646.12	1,471.83	-118.70	-118.70	9.00	9.00	0.00
7,000.00	12.67	90.00	6,745.01	1,471.83	-104.50	-104.50	9.00	9.00	0.00
7,100.00	21.67	90.00	6,840.45	1,471.83	-75.02	-75.02	9.00	9.00	0.00
7,171.18	28.07	90.00	6,905.00	1,471.83	-45.10	-45.10	9.00	9.00	0.00
<b>Sharon Springs</b>									
7,200.00	30.67	90.00	6,930.11	1,471.83	-30.96	-30.96	9.00	9.00	0.00
7,210.38	31.60	90.00	6,939.00	1,471.83	-25.59	-25.59	9.00	9.00	0.00
<b>Nio A Chalk</b>									
7,235.35	33.85	90.00	6,960.00	1,471.83	-12.10	-12.10	9.00	9.00	0.00
<b>Nio A Marl</b>									
7,300.00	39.67	90.00	7,011.77	1,471.83	26.57	26.57	9.00	9.00	0.00
7,362.71	45.31	90.00	7,058.00	1,471.83	68.92	68.92	9.00	9.00	0.00
<b>Nio B Chalk</b>									
7,400.00	48.67	90.00	7,083.43	1,471.83	96.18	96.18	9.00	9.00	0.00
7,410.04	49.57	90.00	7,090.00	1,471.83	103.77	103.77	9.00	9.00	0.00



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<b>Company:</b>	Synergy Resources Corp.	<b>TVD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Site:</b>	SRC Fagerberg 33-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Fagerberg 6C-7-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey										
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)	
Nio B Marl										
7,472.30	55.17	90.00	7,128.00	1,471.83	153.06	153.06	9.00	9.00	0.00	
Nio C Chalk										
7,500.00	57.67	90.00	7,143.32	1,471.83	176.14	176.14	9.00	9.00	0.00	
7,538.68	61.15	90.00	7,163.00	1,471.83	209.43	209.43	9.00	9.00	0.00	
Nio C Marl										
7,600.00	66.67	90.00	7,189.96	1,471.83	264.48	264.48	9.00	9.00	0.00	
7,700.00	75.67	90.00	7,222.21	1,471.83	359.03	359.03	9.00	9.00	0.00	
7,800.00	84.67	90.00	7,239.26	1,471.83	457.46	457.46	9.00	9.00	0.00	
7,864.60	90.48	90.00	7,242.00	1,471.83	521.97	521.97	9.00	9.00	0.00	
Start 4998.21 hold at 7864.60 MD										
7,900.00	90.48	90.00	7,241.70	1,471.83	557.37	557.37	0.00	0.00	0.00	
8,000.00	90.48	90.00	7,240.86	1,471.83	657.37	657.37	0.00	0.00	0.00	
8,100.00	90.48	90.00	7,240.02	1,471.83	757.36	757.36	0.00	0.00	0.00	
8,200.00	90.48	90.00	7,239.18	1,471.83	857.36	857.36	0.00	0.00	0.00	
8,300.00	90.48	90.00	7,238.34	1,471.83	957.35	957.35	0.00	0.00	0.00	
8,400.00	90.48	90.00	7,237.50	1,471.83	1,057.35	1,057.35	0.00	0.00	0.00	
8,500.00	90.48	90.00	7,236.66	1,471.83	1,157.35	1,157.35	0.00	0.00	0.00	
8,600.00	90.48	90.00	7,235.82	1,471.84	1,257.34	1,257.34	0.00	0.00	0.00	
8,700.00	90.48	90.00	7,234.98	1,471.84	1,357.34	1,357.34	0.00	0.00	0.00	
8,800.00	90.48	90.00	7,234.14	1,471.84	1,457.34	1,457.34	0.00	0.00	0.00	
8,900.00	90.48	90.00	7,233.30	1,471.84	1,557.33	1,557.33	0.00	0.00	0.00	
9,000.00	90.48	90.00	7,232.46	1,471.84	1,657.33	1,657.33	0.00	0.00	0.00	
9,100.00	90.48	90.00	7,231.62	1,471.84	1,757.33	1,757.33	0.00	0.00	0.00	
9,200.00	90.48	90.00	7,230.78	1,471.84	1,857.32	1,857.32	0.00	0.00	0.00	
9,300.00	90.48	90.00	7,229.94	1,471.84	1,957.32	1,957.32	0.00	0.00	0.00	
9,400.00	90.48	90.00	7,229.10	1,471.84	2,057.32	2,057.32	0.00	0.00	0.00	
9,500.00	90.48	90.00	7,228.26	1,471.84	2,157.31	2,157.31	0.00	0.00	0.00	
9,600.00	90.48	90.00	7,227.42	1,471.84	2,257.31	2,257.31	0.00	0.00	0.00	
9,700.00	90.48	90.00	7,226.58	1,471.84	2,357.31	2,357.31	0.00	0.00	0.00	
9,800.00	90.48	90.00	7,225.74	1,471.84	2,457.30	2,457.30	0.00	0.00	0.00	
9,900.00	90.48	90.00	7,224.90	1,471.84	2,557.30	2,557.30	0.00	0.00	0.00	
10,000.00	90.48	90.00	7,224.05	1,471.84	2,657.30	2,657.30	0.00	0.00	0.00	
10,100.00	90.48	90.00	7,223.21	1,471.84	2,757.29	2,757.29	0.00	0.00	0.00	
10,200.00	90.48	90.00	7,222.37	1,471.84	2,857.29	2,857.29	0.00	0.00	0.00	
10,300.00	90.48	90.00	7,221.53	1,471.84	2,957.28	2,957.28	0.00	0.00	0.00	
10,400.00	90.48	90.00	7,220.69	1,471.84	3,057.28	3,057.28	0.00	0.00	0.00	
10,500.00	90.48	90.00	7,219.85	1,471.84	3,157.28	3,157.28	0.00	0.00	0.00	
10,600.00	90.48	90.00	7,219.01	1,471.84	3,257.27	3,257.27	0.00	0.00	0.00	
10,700.00	90.48	90.00	7,218.17	1,471.84	3,357.27	3,357.27	0.00	0.00	0.00	
10,800.00	90.48	90.00	7,217.33	1,471.84	3,457.27	3,457.27	0.00	0.00	0.00	
10,900.00	90.48	90.00	7,216.49	1,471.84	3,557.26	3,557.26	0.00	0.00	0.00	
11,000.00	90.48	90.00	7,215.65	1,471.84	3,657.26	3,657.26	0.00	0.00	0.00	
11,100.00	90.48	90.00	7,214.81	1,471.84	3,757.26	3,757.26	0.00	0.00	0.00	
11,200.00	90.48	90.00	7,213.97	1,471.85	3,857.25	3,857.25	0.00	0.00	0.00	
11,300.00	90.48	90.00	7,213.13	1,471.85	3,957.25	3,957.25	0.00	0.00	0.00	
11,400.00	90.48	90.00	7,212.29	1,471.85	4,057.25	4,057.25	0.00	0.00	0.00	
11,500.00	90.48	90.00	7,211.45	1,471.85	4,157.24	4,157.24	0.00	0.00	0.00	
11,600.00	90.48	90.00	7,210.61	1,471.85	4,257.24	4,257.24	0.00	0.00	0.00	
11,700.00	90.48	90.00	7,209.77	1,471.85	4,357.24	4,357.24	0.00	0.00	0.00	
11,800.00	90.48	90.00	7,208.93	1,471.85	4,457.23	4,457.23	0.00	0.00	0.00	
11,900.00	90.48	90.00	7,208.09	1,471.85	4,557.23	4,557.23	0.00	0.00	0.00	
12,000.00	90.48	90.00	7,207.25	1,471.85	4,657.22	4,657.22	0.00	0.00	0.00	



<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Fagerberg 6C-7-M
<b>Company:</b>	Synergy Resources Corp.	<b>TVD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Site:</b>	SRC Fagerberg 33-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Fagerberg 6C-7-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
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)
12,100.00	90.48	90.00	7,206.41	1,471.85	4,757.22	4,757.22	0.00	0.00	0.00
12,200.00	90.48	90.00	7,205.57	1,471.85	4,857.22	4,857.22	0.00	0.00	0.00
12,300.00	90.48	90.00	7,204.73	1,471.85	4,957.21	4,957.21	0.00	0.00	0.00
12,400.00	90.48	90.00	7,203.89	1,471.85	5,057.21	5,057.21	0.00	0.00	0.00
12,500.00	90.48	90.00	7,203.05	1,471.85	5,157.21	5,157.21	0.00	0.00	0.00
12,600.00	90.48	90.00	7,202.21	1,471.85	5,257.20	5,257.20	0.00	0.00	0.00
12,700.00	90.48	90.00	7,201.37	1,471.85	5,357.20	5,357.20	0.00	0.00	0.00
12,800.00	90.48	90.00	7,200.53	1,471.85	5,457.20	5,457.20	0.00	0.00	0.00
12,862.81	90.48	90.00	7,200.00	1,471.85	5,520.00	5,520.00	0.00	0.00	0.00
<b>Start DLS 2.00 TFO 179.97 - 6C-7-M WP</b>									
12,887.03	90.00	90.00	7,199.90	1,471.85	5,544.22	5,544.22	2.00	-2.00	0.00
<b>Start 1951.61 hold at 12887.03 MD</b>									
12,900.00	90.00	90.00	7,199.90	1,471.85	5,557.19	5,557.19	0.00	0.00	0.00
13,000.00	90.00	90.00	7,199.90	1,471.85	5,657.19	5,657.19	0.00	0.00	0.00
13,100.00	90.00	90.00	7,199.91	1,471.85	5,757.19	5,757.19	0.00	0.00	0.00
13,200.00	90.00	90.00	7,199.92	1,471.85	5,857.19	5,857.19	0.00	0.00	0.00
13,300.00	90.00	90.00	7,199.92	1,471.85	5,957.19	5,957.19	0.00	0.00	0.00
13,400.00	90.00	90.00	7,199.93	1,471.85	6,057.19	6,057.19	0.00	0.00	0.00
13,500.00	90.00	90.00	7,199.93	1,471.85	6,157.19	6,157.19	0.00	0.00	0.00
13,600.00	90.00	90.00	7,199.94	1,471.85	6,257.19	6,257.19	0.00	0.00	0.00
13,700.00	90.00	90.00	7,199.94	1,471.85	6,357.19	6,357.19	0.00	0.00	0.00
13,800.00	90.00	90.00	7,199.95	1,471.85	6,457.19	6,457.19	0.00	0.00	0.00
13,900.00	90.00	90.00	7,199.95	1,471.85	6,557.19	6,557.19	0.00	0.00	0.00
14,000.00	90.00	90.00	7,199.96	1,471.85	6,657.19	6,657.19	0.00	0.00	0.00
14,100.00	90.00	90.00	7,199.96	1,471.85	6,757.19	6,757.19	0.00	0.00	0.00
14,200.00	90.00	90.00	7,199.97	1,471.85	6,857.19	6,857.19	0.00	0.00	0.00
14,300.00	90.00	90.00	7,199.97	1,471.85	6,957.19	6,957.19	0.00	0.00	0.00
14,400.00	90.00	90.00	7,199.98	1,471.85	7,057.19	7,057.19	0.00	0.00	0.00
14,500.00	90.00	90.00	7,199.98	1,471.85	7,157.19	7,157.19	0.00	0.00	0.00
14,600.00	90.00	90.00	7,199.99	1,471.85	7,257.19	7,257.19	0.00	0.00	0.00
14,700.00	90.00	90.00	7,199.99	1,471.85	7,357.19	7,357.19	0.00	0.00	0.00
14,800.00	90.00	90.00	7,200.00	1,471.85	7,457.19	7,457.19	0.00	0.00	0.00
14,838.64	90.00	90.00	7,200.00	1,471.85	7,495.83	7,495.83	0.00	0.00	0.00
<b>TD at 14838.64 - 6C-7-M(2460 FNL 2422 FEL)PBHL</b>									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
6C-7-M(2460 FNL 2422 - plan hits target center - Point	0.00	0.00	7,200.00	1,471.85	7,495.83	1,427,144.45	3,220,472.82	40.5032070	-104.7071680
6C-7-M WP - plan hits target center - Point	0.00	0.00	7,200.00	1,471.85	5,520.00	1,427,127.38	3,218,497.07	40.5032084	-104.7142731

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Fagerberg 6C-7-M
<b>Company:</b>	Synergy Resources Corp.	<b>TVD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4800 & KB 20 @ 4820.00ft (PD 462)
<b>Site:</b>	SRC Fagerberg 33-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Fagerberg 6C-7-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,747.28	1,700.00	9 5/8"	9.625	13.500	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,963.12	3,763.00	Parkman				
4,525.70	4,288.00	Sussex				
5,072.73	4,820.00	Base of Fox Hills				
5,211.56	4,958.00	Shannon				
6,229.85	5,976.00	Lower Pierre				
7,171.18	6,905.00	Sharon Springs				
7,210.38	6,939.00	Nio A Chalk				
7,235.35	6,960.00	Nio A Marl				
7,362.71	7,058.00	Nio B Chalk				
7,410.04	7,090.00	Nio B Marl				
7,472.30	7,128.00	Nio C Chalk				
7,538.68	7,163.00	Nio C Marl				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
350.00	350.00	0.00	0.00	Start Build 2.00	
1,420.26	1,395.54	196.95	-16.06	Start 2963.32 hold at 1420.26 MD	
4,383.59	4,154.46	1,274.88	-103.94	Start Drop -2.00	
5,453.85	5,200.00	1,471.83	-120.00	Start 1405.40 hold at 5453.85 MD	
6,859.25	6,605.40	1,471.83	-120.00	Start DLS 9.00 TFO 90.00	
7,864.60	7,242.00	1,471.83	521.97	Start 4998.21 hold at 7864.60 MD	
12,862.81	7,200.00	1,471.85	5,520.00	Start DLS 2.00 TFO 179.97	
12,887.03	7,199.90	1,471.85	5,544.22	Start 1951.61 hold at 12887.03 MD	
14,838.64	7,200.00	1,471.85	7,495.83	TD at 14838.64	