



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 2



Azimuths to True North
Magnetic North: 8.48°



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

Plan: Plan 2 (Fagerberg 6C-7-M/OH)

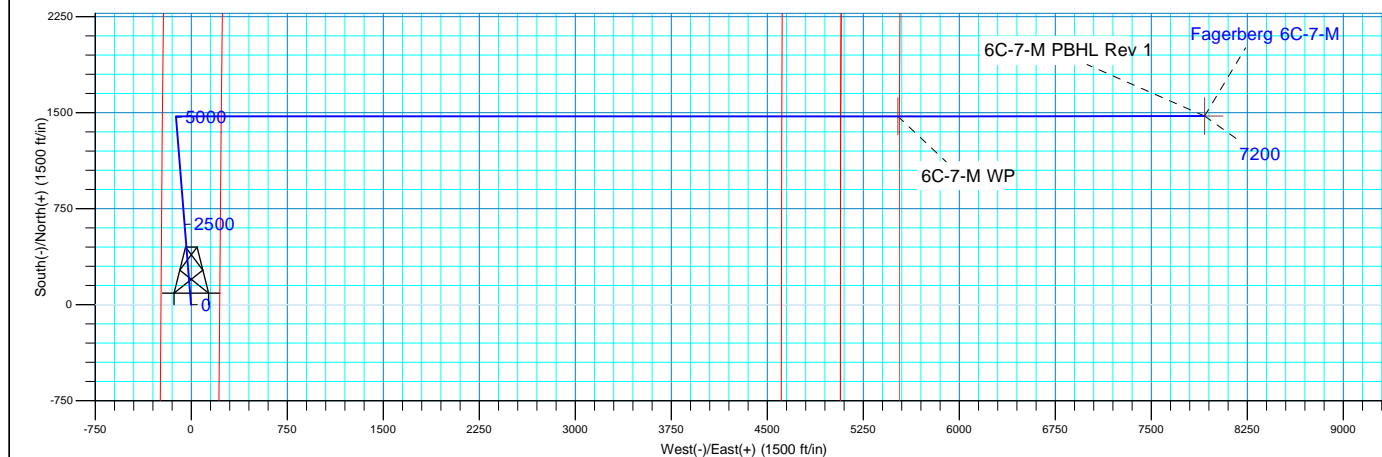
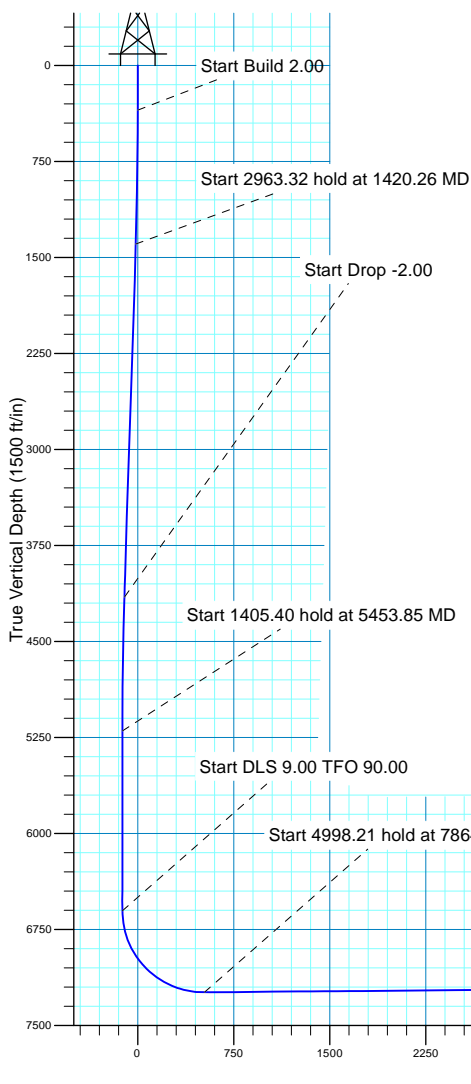
Created By: Seth Burstad Date: 5-16-2016

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
12887.04	90.00	89.97	7199.90	1471.86	5544.24	2.00	-176.55	5544.24
15260.50	90.00	89.97	7200.00	1473.08	7917.69	0.00	0.00	7917.69

WELL DETAILS: Fagerberg 6C-7-M

+N/-S	+E/-W	GL 4800 & KB 20 @ 4820.00ft (PD 462)	4800.00		
Northing	Easting	Latitude	Longitude		
0.00	0.00	1425607.91	3212990.00	40.4991700	-104.7341230

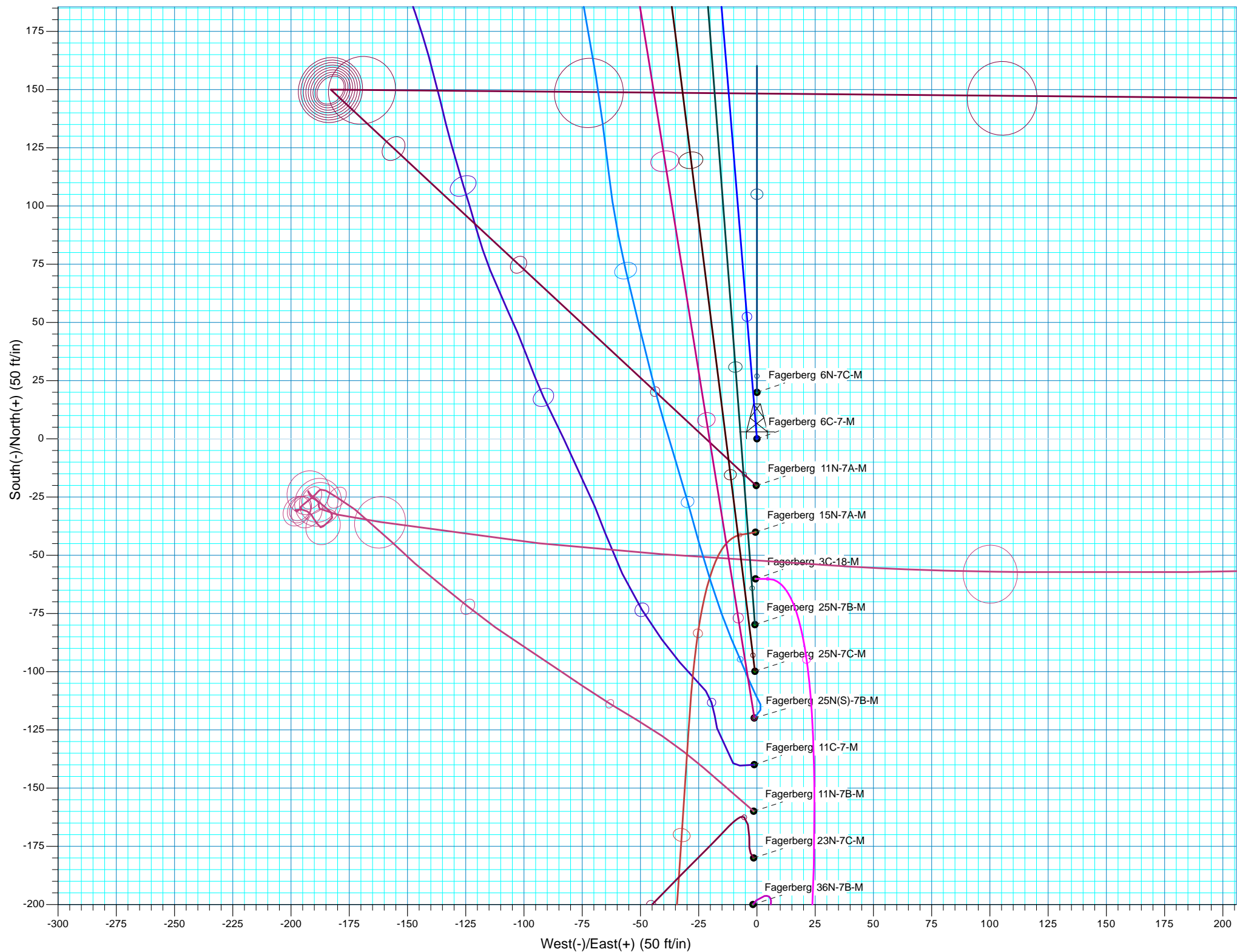


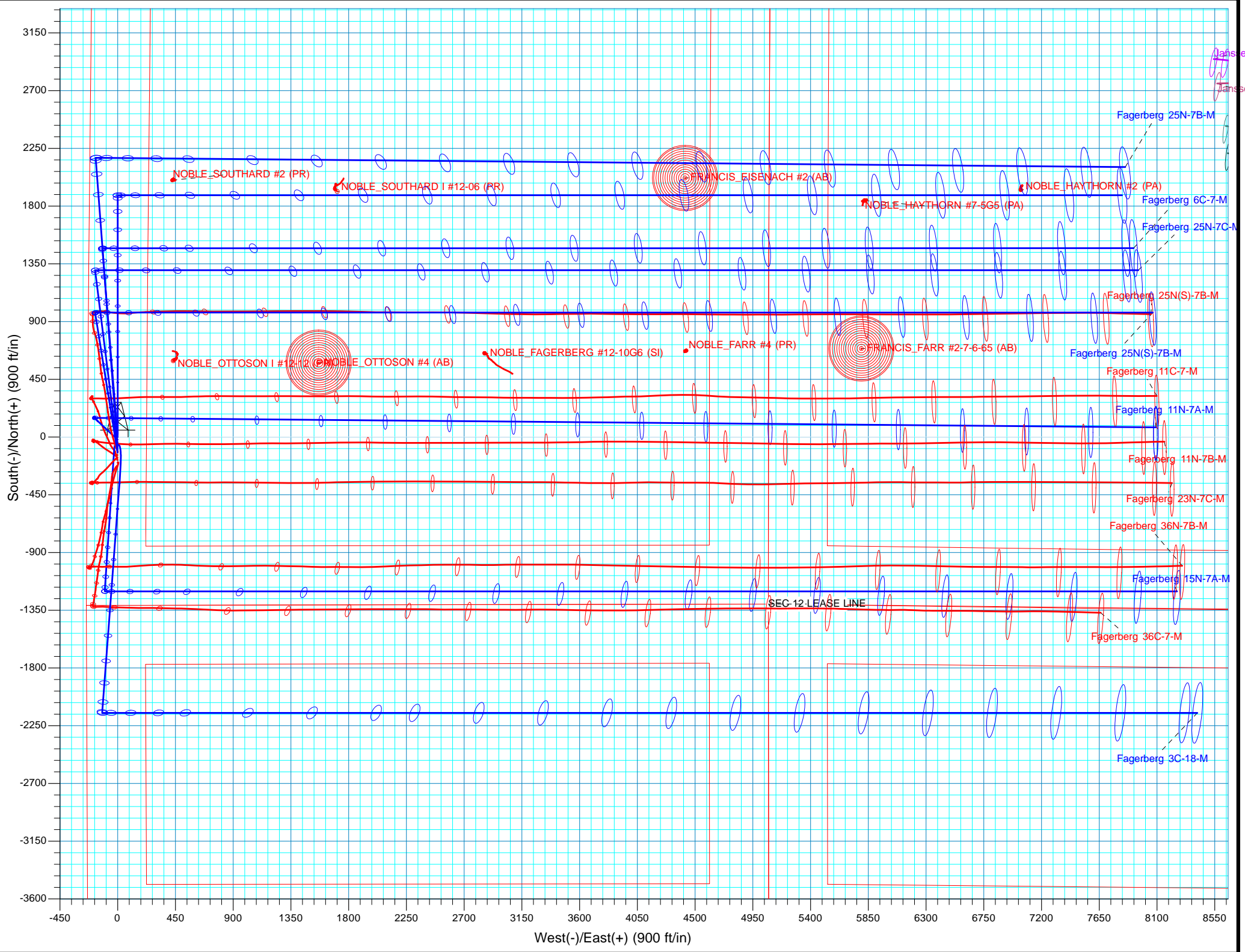
DESIGN TARGET DETAILS

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
- plan hits target center								
PBHL Rev 1	7200.00	1473.08	7917.69	1427149.31	3220894.65	40.5032100	-104.7056510	Point
- plan hits target center								

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3763.00	3963.12	Parkman
4288.00	4525.70	Sussex
4820.00	5072.73	Base of Fox Hills
4958.00	5211.56	Shannon
5976.00	6229.85	Lower Pierre
6905.00	7171.18	Sharon Springs
6939.00	7210.38	Nio A Chalk
6960.00	7235.35	Nio A Marl
7058.00	7362.71	Nio B Chalk
7090.00	7410.04	Nio B Marl
7128.00	7472.30	Nio C Chalk
7163.00	7538.68	Nio C Marl







Synergy Resources Corp.

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

OH

Plan: Plan 2

Standard Planning Report

16 May, 2016



Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 6C-7-M
Company:	Synergy Resources Corp.	TVD Reference:	GL 4800 & KB 20 @ 4820.00ft (PD 462)
Project:	Weld County, CO NAD 83	MD Reference:	GL 4800 & KB 20 @ 4820.00ft (PD 462)
Site:	SRC Fagerberg 33-12 Pad	North Reference:	True
Well:	Fagerberg 6C-7-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

Project	Weld County, CO NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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

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

Design	Plan 2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	90.00

Plan Sections										
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	
12,887.04	90.00	89.97	7,199.90	1,471.86	5,544.24	2.00	-2.00	-0.12	-176.55	
15,260.50	90.00	89.97	7,200.00	1,473.08	7,917.69	0.00	0.00	0.00	0.00	6C-7-M(2460 FNL 24;

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Project:	Weld County, CO NAD 83	MD Reference:	GL 4800 & KB 20 @ 4820.00ft (PD 462)
Site:	SRC Fagerberg 33-12 Pad	North Reference:	True
Well:	Fagerberg 6C-7-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

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									

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Site:	SRC Fagerberg 33-12 Pad	North Reference:	True
Well:	Fagerberg 6C-7-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

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
Sussex									
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
Base of Fox Hills									
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
Shannon									
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
Start 1405.40 hold at 5453.85 MD									
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
Lower Pierre									
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
Start DLS 9.00 TFO 90.00									
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
Sharon Springs									
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
Nio A Chalk									
7,235.35	33.85	90.00	6,960.00	1,471.83	-12.10	-12.10	9.00	9.00	0.00
Nio A Marl									
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
Nio B Chalk									
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

Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 6C-7-M
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Project:	Weld County, CO NAD 83	MD Reference:	GL 4800 & KB 20 @ 4820.00ft (PD 462)
Site:	SRC Fagerberg 33-12 Pad	North Reference:	True
Well:	Fagerberg 6C-7-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

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

Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 6C-7-M
Company:	Synergy Resources Corp.	TVD Reference:	GL 4800 & KB 20 @ 4820.00ft (PD 462)
Project:	Weld County, CO NAD 83	MD Reference:	GL 4800 & KB 20 @ 4820.00ft (PD 462)
Site:	SRC Fagerberg 33-12 Pad	North Reference:	True
Well:	Fagerberg 6C-7-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

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
Start DLS 2.00 TFO -176.55									
12,887.04	90.00	89.97	7,199.90	1,471.86	5,544.24	5,544.24	2.00	-2.00	-0.12
Start 2373.45 hold at 12887.04 MD									
12,900.00	90.00	89.97	7,199.90	1,471.86	5,557.19	5,557.19	0.00	0.00	0.00
13,000.00	90.00	89.97	7,199.90	1,471.92	5,657.19	5,657.19	0.00	0.00	0.00
13,100.00	90.00	89.97	7,199.91	1,471.97	5,757.19	5,757.19	0.00	0.00	0.00
13,200.00	90.00	89.97	7,199.91	1,472.02	5,857.19	5,857.19	0.00	0.00	0.00
13,300.00	90.00	89.97	7,199.92	1,472.07	5,957.19	5,957.19	0.00	0.00	0.00
13,400.00	90.00	89.97	7,199.92	1,472.12	6,057.19	6,057.19	0.00	0.00	0.00
13,500.00	90.00	89.97	7,199.93	1,472.17	6,157.19	6,157.19	0.00	0.00	0.00
13,600.00	90.00	89.97	7,199.93	1,472.22	6,257.19	6,257.19	0.00	0.00	0.00
13,700.00	90.00	89.97	7,199.93	1,472.28	6,357.19	6,357.19	0.00	0.00	0.00
13,800.00	90.00	89.97	7,199.94	1,472.33	6,457.19	6,457.19	0.00	0.00	0.00
13,900.00	90.00	89.97	7,199.94	1,472.38	6,557.19	6,557.19	0.00	0.00	0.00
14,000.00	90.00	89.97	7,199.95	1,472.43	6,657.19	6,657.19	0.00	0.00	0.00
14,100.00	90.00	89.97	7,199.95	1,472.48	6,757.19	6,757.19	0.00	0.00	0.00
14,200.00	90.00	89.97	7,199.95	1,472.53	6,857.19	6,857.19	0.00	0.00	0.00
14,300.00	90.00	89.97	7,199.96	1,472.58	6,957.19	6,957.19	0.00	0.00	0.00
14,400.00	90.00	89.97	7,199.96	1,472.63	7,057.19	7,057.19	0.00	0.00	0.00
14,500.00	90.00	89.97	7,199.97	1,472.69	7,157.19	7,157.19	0.00	0.00	0.00
14,600.00	90.00	89.97	7,199.97	1,472.74	7,257.19	7,257.19	0.00	0.00	0.00
14,700.00	90.00	89.97	7,199.98	1,472.79	7,357.19	7,357.19	0.00	0.00	0.00
14,800.00	90.00	89.97	7,199.98	1,472.84	7,457.19	7,457.19	0.00	0.00	0.00
14,900.00	90.00	89.97	7,199.98	1,472.89	7,557.19	7,557.19	0.00	0.00	0.00
15,000.00	90.00	89.97	7,199.99	1,472.94	7,657.19	7,657.19	0.00	0.00	0.00
15,100.00	90.00	89.97	7,199.99	1,472.99	7,757.19	7,757.19	0.00	0.00	0.00
15,200.00	90.00	89.97	7,200.00	1,473.05	7,857.19	7,857.19	0.00	0.00	0.00
15,260.50	90.00	89.97	7,200.00	1,473.08	7,917.69	7,917.69	0.00	0.00	0.00
TD at 15260.50									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
6C-7-M(2460 FNL 2422 - hit/miss target - Shape - Point	0.00	0.00	7,200.00	1,473.08	7,917.69	1,427,149.31	3,220,894.65	40.5032100	-104.7056510
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

Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 6C-7-M
Company:	Synergy Resources Corp.	TVD Reference:	GL 4800 & KB 20 @ 4820.00ft (PD 462)
Project:	Weld County, CO NAD 83	MD Reference:	GL 4800 & KB 20 @ 4820.00ft (PD 462)
Site:	SRC Fagerberg 33-12 Pad	North Reference:	True
Well:	Fagerberg 6C-7-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

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 -176.55	
12,887.04	7,199.90	1,471.86	5,544.24	Start 2373.45 hold at 12887.04 MD	
15,260.50	7,200.00	1,473.08	7,917.69	TD at 15260.50	