



Synergy Resources Corp.

Weld County, CO NAD 83
SRC Fagerberg 33-12 Pad
Fagerberg 15N-7A-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 15N-7A-M
Wellbore: OH
Design: Plan #1



Azimuths to True North
Magnetic North: 8.48°



Magnetic Field
Strength: 52591.4snT
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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00
400.00	3.00	260.00	399.91	-0.91	-5.16	1.50	260.00	-5.16
430.00	3.00	260.00	429.87	-1.18	-6.70	0.00	0.00	-6.70
1075.67	13.30	183.78	1069.14	-78.56	-28.33	2.00	-89.03	-28.33
5465.18	13.30	183.78	5340.90	-1086.25	-94.93	0.00	0.00	-94.93
6130.24	0.00	0.00	6000.00	-1162.93	-100.00	2.00	180.00	-100.00
6485.63	0.00	0.00	6355.39	-1162.93	-100.00	0.00	0.00	-100.00
7488.93	90.30	90.00	6992.00	-1162.93	539.92	9.00	90.00	539.92
15205.85	90.30	90.00	6952.00	-1162.93	8256.74	0.00	0.00	8256.74

WELL DETAILS: Fagerberg 15N-7A-M

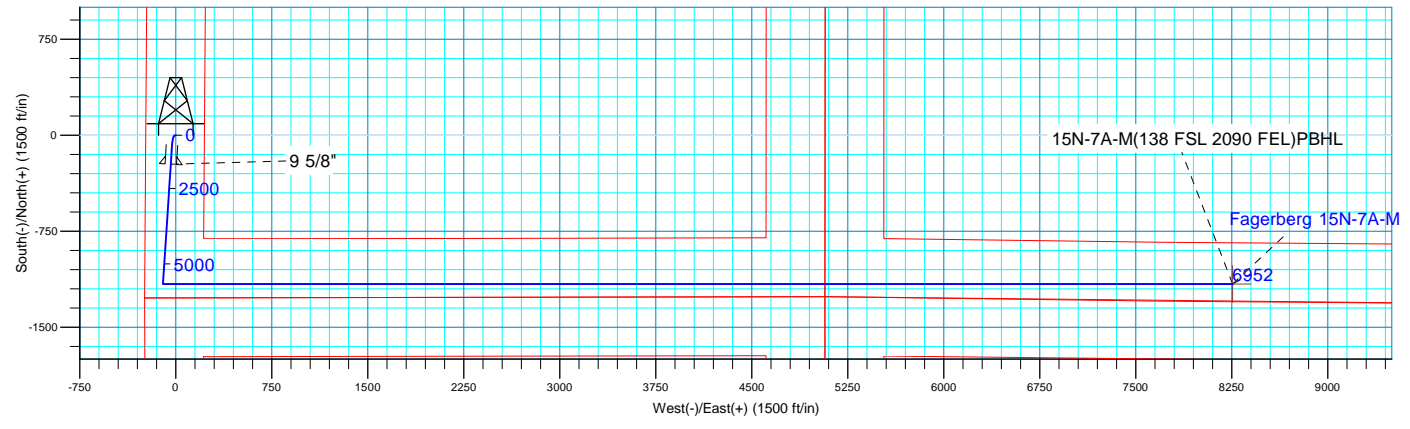
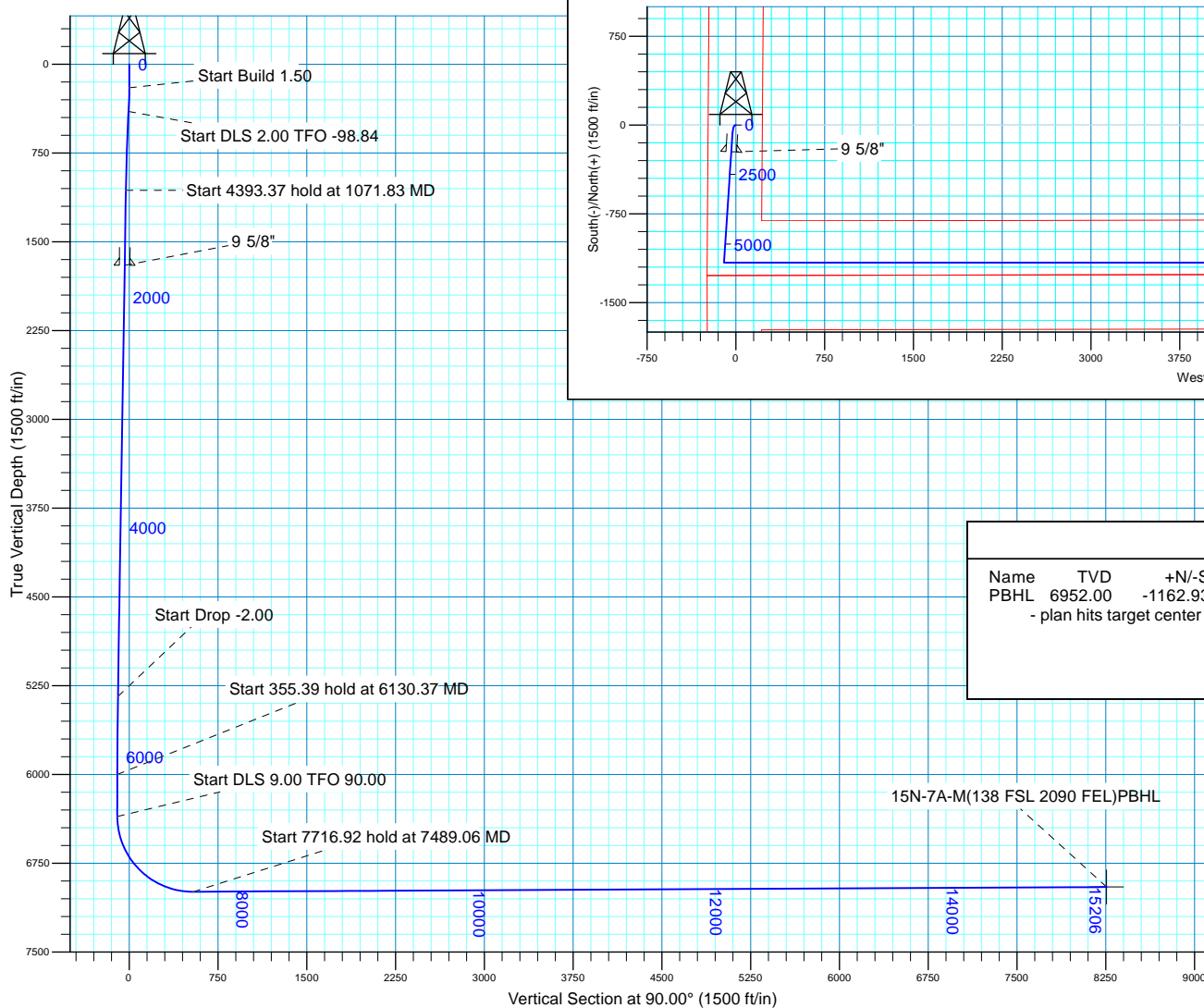
		GL 4800 & KB 20 @ 4820.00ft (PD 462)		4800.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1425567.83	3212989.79	40.4990600	-104.7341250

Plan: Plan #1 (Fagerberg 15N-7A-M/OH)

CASING DETAILS

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

TVD	MD	Name	Size
1700.00	1723.92	9 5/8"	9.625

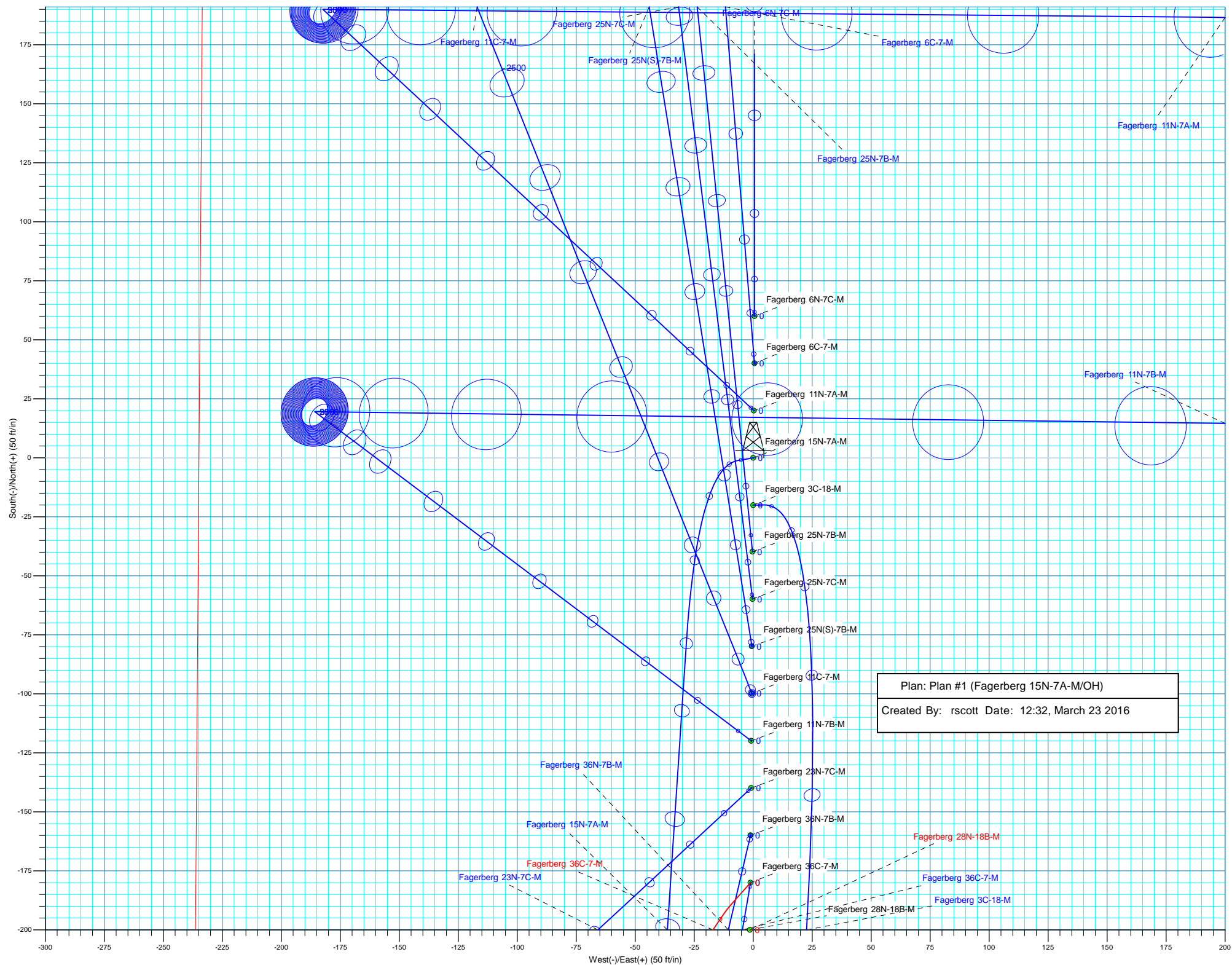


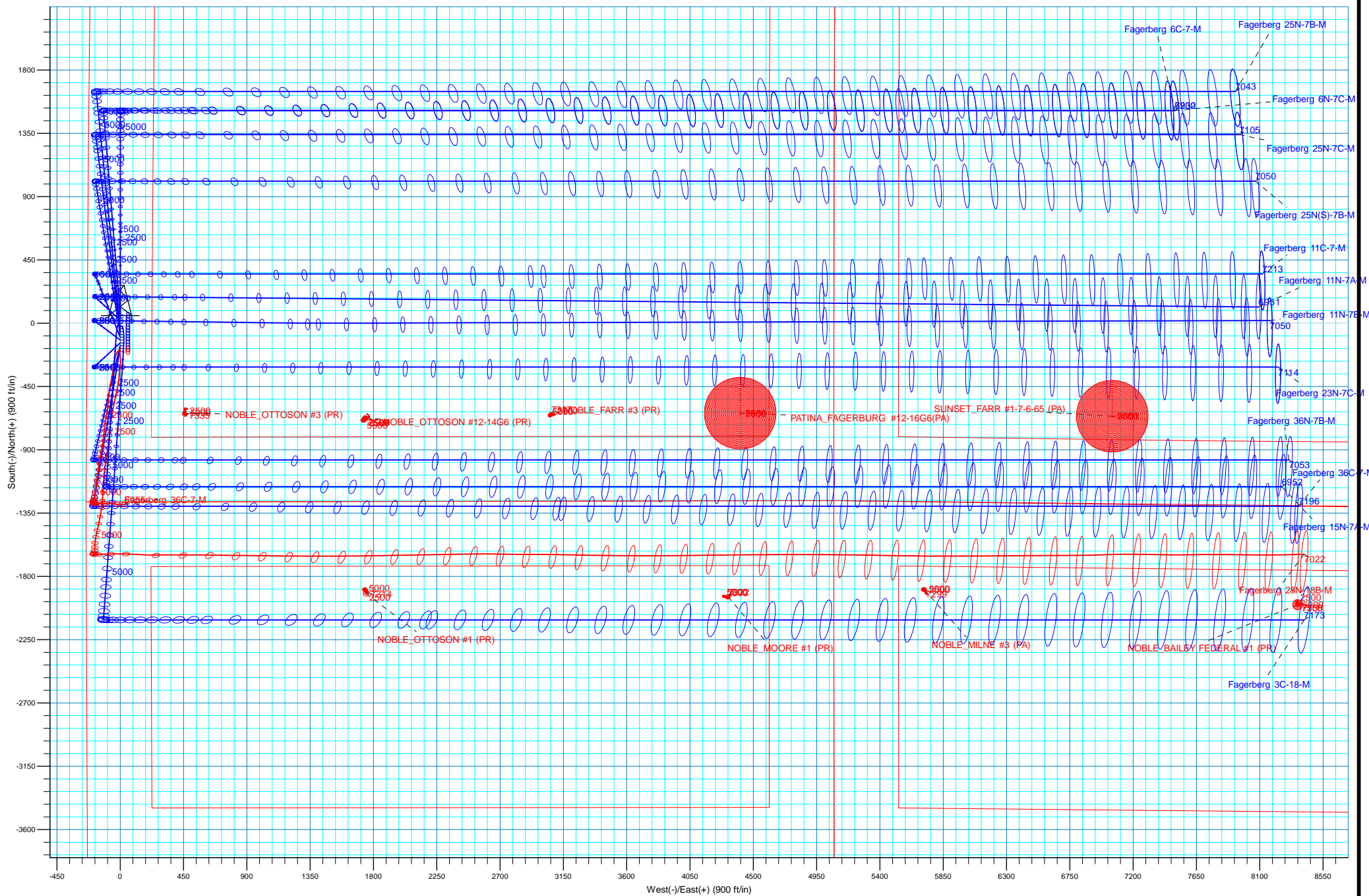
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	6952.00	-1162.93	8256.74	1424476.26	3221256.25	40.4958640	-104.7044370	Point
- plan hits target center								

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipDirInc
3756.00	3836.59	Parkman	13.30
4281.00	4376.06	Sussex	13.30
4820.00	4929.92	Base of Fox Hills	13.30
4951.00	5064.53	Shannon	13.30
5969.00	6099.24	Lower Pierre	0.62
6898.00	7135.25	Sharon Springs	58.47
6932.00	7206.99	Nio A Chalk	64.92
6953.00	7261.61	Nio A Marl	69.84





Plan: Plan #1 (Fagerberg 15N-7A-M/OH)

Created By: rscott Date: 12:30, March 23 2016

Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 15N-7A-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 15N-7A-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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 15N-7A-M, 1271 FSL 235 FWL					
Well Position	+N/-S	200.00 ft	Northing:	1,425,567.83 usft	Latitude:	40.4990600
	+E/-W	1.39 ft	Easting:	3,212,989.79 usft	Longitude:	-104.7341250
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 #1			
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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	3.00	260.00	399.91	-0.91	-5.16	1.50	1.50	0.00	260.00	
430.00	3.00	260.00	429.87	-1.18	-6.70	0.00	0.00	0.00	0.00	
1,075.67	13.30	183.78	1,069.14	-78.56	-28.33	2.00	1.60	-11.80	-89.03	
5,465.18	13.30	183.78	5,340.90	-1,086.25	-94.93	0.00	0.00	0.00	0.00	
6,130.24	0.00	0.00	6,000.00	-1,162.93	-100.00	2.00	-2.00	0.00	180.00	
6,485.63	0.00	0.00	6,355.39	-1,162.93	-100.00	0.00	0.00	0.00	0.00	
7,488.93	90.30	90.00	6,992.00	-1,162.93	539.92	9.00	9.00	8.97	90.00	
15,205.85	90.30	90.00	6,952.00	-1,162.93	8,256.74	0.00	0.00	0.00	0.00	15N-7A-M(138 FSL 21)

Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 15N-7A-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 15N-7A-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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
Start Build 1.50									
300.00	1.50	260.00	299.99	-0.23	-1.29	-1.29	1.50	1.50	0.00
400.00	3.00	260.00	399.91	-0.91	-5.16	-5.16	1.50	1.50	0.00
Start DLS 2.00 TFO -98.84									
430.00	3.00	260.00	429.87	-1.18	-6.70	-6.70	0.00	0.00	0.00
500.00	3.33	235.14	499.76	-2.66	-10.17	-10.17	2.00	0.47	-35.51
600.00	4.57	211.92	599.53	-7.71	-14.67	-14.67	2.00	1.24	-23.22
700.00	6.22	199.71	699.09	-16.19	-18.60	-18.60	2.00	1.65	-12.21
800.00	8.03	192.78	798.31	-28.10	-21.97	-21.97	2.00	1.81	-6.93
900.00	9.91	188.43	897.09	-43.43	-24.78	-24.78	2.00	1.88	-4.36
1,000.00	11.83	185.46	995.29	-62.15	-27.02	-27.02	2.00	1.92	-2.97
1,071.83	13.23	183.86	1,065.40	-77.68	-28.27	-28.27	2.00	1.94	-2.23
Start 4393.37 hold at 1071.83 MD									
1,075.67	13.30	183.78	1,069.14	-78.56	-28.33	-28.33	2.00	1.95	-1.99
1,100.00	13.30	183.78	1,092.82	-84.14	-28.70	-28.70	0.00	0.00	0.00
1,200.00	13.30	183.78	1,190.14	-107.10	-30.22	-30.22	0.00	0.00	0.00
1,300.00	13.30	183.78	1,287.46	-130.06	-31.73	-31.73	0.00	0.00	0.00
1,400.00	13.30	183.78	1,384.77	-153.01	-33.25	-33.25	0.00	0.00	0.00
1,500.00	13.30	183.78	1,482.09	-175.97	-34.77	-34.77	0.00	0.00	0.00
1,600.00	13.30	183.78	1,579.41	-198.93	-36.29	-36.29	0.00	0.00	0.00
1,700.00	13.30	183.78	1,676.73	-221.88	-37.80	-37.80	0.00	0.00	0.00
1,723.92	13.30	183.78	1,700.00	-227.37	-38.17	-38.17	0.00	0.00	0.00
9 5/8"									
1,800.00	13.30	183.78	1,774.04	-244.84	-39.32	-39.32	0.00	0.00	0.00
1,900.00	13.30	183.78	1,871.36	-267.80	-40.84	-40.84	0.00	0.00	0.00
2,000.00	13.30	183.78	1,968.68	-290.75	-42.36	-42.36	0.00	0.00	0.00
2,100.00	13.30	183.78	2,065.99	-313.71	-43.87	-43.87	0.00	0.00	0.00
2,200.00	13.30	183.78	2,163.31	-336.67	-45.39	-45.39	0.00	0.00	0.00
2,300.00	13.30	183.78	2,260.63	-359.62	-46.91	-46.91	0.00	0.00	0.00
2,400.00	13.30	183.78	2,357.95	-382.58	-48.42	-48.42	0.00	0.00	0.00
2,500.00	13.30	183.78	2,455.26	-405.54	-49.94	-49.94	0.00	0.00	0.00
2,600.00	13.30	183.78	2,552.58	-428.49	-51.46	-51.46	0.00	0.00	0.00
2,700.00	13.30	183.78	2,649.90	-451.45	-52.98	-52.98	0.00	0.00	0.00
2,800.00	13.30	183.78	2,747.22	-474.41	-54.49	-54.49	0.00	0.00	0.00
2,900.00	13.30	183.78	2,844.53	-497.36	-56.01	-56.01	0.00	0.00	0.00
3,000.00	13.30	183.78	2,941.85	-520.32	-57.53	-57.53	0.00	0.00	0.00
3,100.00	13.30	183.78	3,039.17	-543.28	-59.05	-59.05	0.00	0.00	0.00
3,200.00	13.30	183.78	3,136.49	-566.23	-60.56	-60.56	0.00	0.00	0.00
3,300.00	13.30	183.78	3,233.80	-589.19	-62.08	-62.08	0.00	0.00	0.00
3,400.00	13.30	183.78	3,331.12	-612.15	-63.60	-63.60	0.00	0.00	0.00
3,500.00	13.30	183.78	3,428.44	-635.10	-65.11	-65.11	0.00	0.00	0.00
3,600.00	13.30	183.78	3,525.76	-658.06	-66.63	-66.63	0.00	0.00	0.00
3,700.00	13.30	183.78	3,623.07	-681.02	-68.15	-68.15	0.00	0.00	0.00
3,800.00	13.30	183.78	3,720.39	-703.98	-69.67	-69.67	0.00	0.00	0.00
3,836.59	13.30	183.78	3,756.00	-712.38	-70.22	-70.22	0.00	0.00	0.00
Parkman									
3,900.00	13.30	183.78	3,817.71	-726.93	-71.18	-71.18	0.00	0.00	0.00
4,000.00	13.30	183.78	3,915.03	-749.89	-72.70	-72.70	0.00	0.00	0.00
4,100.00	13.30	183.78	4,012.34	-772.85	-74.22	-74.22	0.00	0.00	0.00
4,200.00	13.30	183.78	4,109.66	-795.80	-75.74	-75.74	0.00	0.00	0.00
4,300.00	13.30	183.78	4,206.98	-818.76	-77.25	-77.25	0.00	0.00	0.00

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Site:	SRC Fagerberg 33-12 Pad	North Reference:	True
Well:	Fagerberg 15N-7A-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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)
4,376.06	13.30	183.78	4,281.00	-836.22	-78.41	-78.41	0.00	0.00	0.00
Sussex									
4,400.00	13.30	183.78	4,304.30	-841.72	-78.77	-78.77	0.00	0.00	0.00
4,500.00	13.30	183.78	4,401.61	-864.67	-80.29	-80.29	0.00	0.00	0.00
4,600.00	13.30	183.78	4,498.93	-887.63	-81.80	-81.80	0.00	0.00	0.00
4,700.00	13.30	183.78	4,596.25	-910.59	-83.32	-83.32	0.00	0.00	0.00
4,800.00	13.30	183.78	4,693.57	-933.54	-84.84	-84.84	0.00	0.00	0.00
4,900.00	13.30	183.78	4,790.88	-956.50	-86.36	-86.36	0.00	0.00	0.00
4,929.92	13.30	183.78	4,820.00	-963.37	-86.81	-86.81	0.00	0.00	0.00
Base of Fox Hills									
5,000.00	13.30	183.78	4,888.20	-979.46	-87.87	-87.87	0.00	0.00	0.00
5,064.53	13.30	183.78	4,951.00	-994.27	-88.85	-88.85	0.00	0.00	0.00
Shannon									
5,100.00	13.30	183.78	4,985.52	-1,002.41	-89.39	-89.39	0.00	0.00	0.00
5,200.00	13.30	183.78	5,082.84	-1,025.37	-90.91	-90.91	0.00	0.00	0.00
5,300.00	13.30	183.78	5,180.15	-1,048.33	-92.43	-92.43	0.00	0.00	0.00
5,400.00	13.30	183.78	5,277.47	-1,071.28	-93.94	-93.94	0.00	0.00	0.00
5,465.18	13.30	183.78	5,340.90	-1,086.25	-94.93	-94.93	0.00	0.00	0.00
5,465.20	13.30	183.78	5,340.92	-1,086.25	-94.93	-94.93	0.00	0.00	0.00
Start Drop -2.00									
5,500.00	12.60	183.78	5,374.84	-1,094.04	-95.45	-95.45	2.00	-2.00	0.00
5,600.00	10.60	183.78	5,472.79	-1,114.11	-96.77	-96.77	2.00	-2.00	0.00
5,700.00	8.60	183.78	5,571.38	-1,130.75	-97.87	-97.87	2.00	-2.00	0.00
5,800.00	6.60	183.78	5,670.50	-1,143.96	-98.75	-98.75	2.00	-2.00	0.00
5,900.00	4.60	183.78	5,770.01	-1,153.70	-99.39	-99.39	2.00	-2.00	0.00
6,000.00	2.60	183.78	5,869.81	-1,159.98	-99.80	-99.80	2.00	-2.00	0.00
6,099.24	0.62	183.78	5,969.00	-1,162.76	-99.99	-99.99	2.00	-2.00	0.00
Lower Pierre									
6,100.00	0.60	183.78	5,969.76	-1,162.77	-99.99	-99.99	2.00	-2.00	0.00
6,130.24	0.00	0.00	6,000.00	-1,162.93	-100.00	-100.00	2.00	-2.00	0.00
6,130.37	0.00	0.00	6,000.14	-1,162.93	-100.00	-100.00	0.00	0.00	0.00
Start 355.39 hold at 6130.37 MD									
6,200.00	0.00	0.00	6,069.76	-1,162.93	-100.00	-100.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,169.76	-1,162.93	-100.00	-100.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,269.76	-1,162.93	-100.00	-100.00	0.00	0.00	0.00
6,485.63	0.00	0.00	6,355.39	-1,162.93	-100.00	-100.00	0.00	0.00	0.00
6,485.76	0.00	90.00	6,355.53	-1,162.93	-100.00	-100.00	0.00	0.00	0.00
Start DLS 9.00 TFO 90.00									
6,500.00	1.29	90.00	6,369.76	-1,162.93	-99.84	-99.84	9.09	9.09	0.00
6,600.00	10.29	90.00	6,469.15	-1,162.93	-89.75	-89.75	9.00	9.00	0.00
6,700.00	19.29	90.00	6,565.74	-1,162.93	-64.25	-64.25	9.00	9.00	0.00
6,800.00	28.29	90.00	6,657.14	-1,162.93	-23.94	-23.94	9.00	9.00	0.00
6,900.00	37.29	90.00	6,741.12	-1,162.93	30.16	30.16	9.00	9.00	0.00
7,000.00	46.29	90.00	6,815.60	-1,162.93	96.74	96.74	9.00	9.00	0.00
7,100.00	55.29	90.00	6,878.74	-1,162.93	174.15	174.15	9.00	9.00	0.00
7,135.25	58.47	90.00	6,898.00	-1,162.93	203.66	203.66	9.00	9.00	0.00
Sharon Springs									
7,200.00	64.29	90.00	6,929.00	-1,162.93	260.48	260.48	9.00	9.00	0.00
7,206.99	64.92	90.00	6,932.00	-1,162.93	266.79	266.79	9.00	9.00	0.00
Nio A Chalk									
7,261.61	69.84	90.00	6,953.00	-1,162.93	317.20	317.20	9.00	9.00	0.00
Nio A Marl									

Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 15N-7A-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 15N-7A-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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)
7,300.00	73.29	90.00	6,965.14	-1,162.93	353.61	353.61	9.00	9.00	0.00
7,400.00	82.29	90.00	6,986.26	-1,162.93	451.25	451.25	9.00	9.00	0.00
7,488.93	90.30	90.00	6,992.00	-1,162.93	539.92	539.92	9.00	9.00	0.00
7,489.06	90.30	90.00	6,992.00	-1,162.93	540.05	540.05	0.00	0.00	0.00
Start 7716.92 hold at 7489.06 MD									
7,500.00	90.30	90.00	6,991.94	-1,162.93	550.99	550.99	0.00	0.00	0.00
7,600.00	90.30	90.00	6,991.43	-1,162.93	650.99	650.99	0.00	0.00	0.00
7,700.00	90.30	90.00	6,990.91	-1,162.93	750.99	750.99	0.00	0.00	0.00
7,800.00	90.30	90.00	6,990.39	-1,162.93	850.99	850.99	0.00	0.00	0.00
7,900.00	90.30	90.00	6,989.87	-1,162.93	950.99	950.99	0.00	0.00	0.00
8,000.00	90.30	90.00	6,989.35	-1,162.93	1,050.99	1,050.99	0.00	0.00	0.00
8,100.00	90.30	90.00	6,988.83	-1,162.93	1,150.99	1,150.99	0.00	0.00	0.00
8,200.00	90.30	90.00	6,988.32	-1,162.93	1,250.98	1,250.98	0.00	0.00	0.00
8,300.00	90.30	90.00	6,987.80	-1,162.93	1,350.98	1,350.98	0.00	0.00	0.00
8,400.00	90.30	90.00	6,987.28	-1,162.93	1,450.98	1,450.98	0.00	0.00	0.00
8,500.00	90.30	90.00	6,986.76	-1,162.93	1,550.98	1,550.98	0.00	0.00	0.00
8,600.00	90.30	90.00	6,986.24	-1,162.93	1,650.98	1,650.98	0.00	0.00	0.00
8,700.00	90.30	90.00	6,985.72	-1,162.93	1,750.98	1,750.98	0.00	0.00	0.00
8,800.00	90.30	90.00	6,985.21	-1,162.93	1,850.98	1,850.98	0.00	0.00	0.00
8,900.00	90.30	90.00	6,984.69	-1,162.93	1,950.97	1,950.97	0.00	0.00	0.00
9,000.00	90.30	90.00	6,984.17	-1,162.93	2,050.97	2,050.97	0.00	0.00	0.00
9,100.00	90.30	90.00	6,983.65	-1,162.93	2,150.97	2,150.97	0.00	0.00	0.00
9,200.00	90.30	90.00	6,983.13	-1,162.93	2,250.97	2,250.97	0.00	0.00	0.00
9,300.00	90.30	90.00	6,982.61	-1,162.93	2,350.97	2,350.97	0.00	0.00	0.00
9,400.00	90.30	90.00	6,982.10	-1,162.93	2,450.97	2,450.97	0.00	0.00	0.00
9,500.00	90.30	90.00	6,981.58	-1,162.93	2,550.97	2,550.97	0.00	0.00	0.00
9,600.00	90.30	90.00	6,981.06	-1,162.93	2,650.97	2,650.97	0.00	0.00	0.00
9,700.00	90.30	90.00	6,980.54	-1,162.93	2,750.96	2,750.96	0.00	0.00	0.00
9,800.00	90.30	90.00	6,980.02	-1,162.93	2,850.96	2,850.96	0.00	0.00	0.00
9,900.00	90.30	90.00	6,979.50	-1,162.93	2,950.96	2,950.96	0.00	0.00	0.00
10,000.00	90.30	90.00	6,978.99	-1,162.93	3,050.96	3,050.96	0.00	0.00	0.00
10,100.00	90.30	90.00	6,978.47	-1,162.93	3,150.96	3,150.96	0.00	0.00	0.00
10,200.00	90.30	90.00	6,977.95	-1,162.93	3,250.96	3,250.96	0.00	0.00	0.00
10,300.00	90.30	90.00	6,977.43	-1,162.93	3,350.96	3,350.96	0.00	0.00	0.00
10,400.00	90.30	90.00	6,976.91	-1,162.93	3,450.95	3,450.95	0.00	0.00	0.00
10,500.00	90.30	90.00	6,976.39	-1,162.93	3,550.95	3,550.95	0.00	0.00	0.00
10,600.00	90.30	90.00	6,975.87	-1,162.93	3,650.95	3,650.95	0.00	0.00	0.00
10,700.00	90.30	90.00	6,975.36	-1,162.93	3,750.95	3,750.95	0.00	0.00	0.00
10,800.00	90.30	90.00	6,974.84	-1,162.93	3,850.95	3,850.95	0.00	0.00	0.00
10,900.00	90.30	90.00	6,974.32	-1,162.93	3,950.95	3,950.95	0.00	0.00	0.00
11,000.00	90.30	90.00	6,973.80	-1,162.93	4,050.95	4,050.95	0.00	0.00	0.00
11,100.00	90.30	90.00	6,973.28	-1,162.93	4,150.95	4,150.95	0.00	0.00	0.00
11,200.00	90.30	90.00	6,972.76	-1,162.93	4,250.94	4,250.94	0.00	0.00	0.00
11,300.00	90.30	90.00	6,972.25	-1,162.93	4,350.94	4,350.94	0.00	0.00	0.00
11,400.00	90.30	90.00	6,971.73	-1,162.93	4,450.94	4,450.94	0.00	0.00	0.00
11,500.00	90.30	90.00	6,971.21	-1,162.93	4,550.94	4,550.94	0.00	0.00	0.00
11,600.00	90.30	90.00	6,970.69	-1,162.93	4,650.94	4,650.94	0.00	0.00	0.00
11,700.00	90.30	90.00	6,970.17	-1,162.93	4,750.94	4,750.94	0.00	0.00	0.00
11,800.00	90.30	90.00	6,969.65	-1,162.93	4,850.94	4,850.94	0.00	0.00	0.00
11,900.00	90.30	90.00	6,969.14	-1,162.93	4,950.93	4,950.93	0.00	0.00	0.00
12,000.00	90.30	90.00	6,968.62	-1,162.93	5,050.93	5,050.93	0.00	0.00	0.00
12,100.00	90.30	90.00	6,968.10	-1,162.93	5,150.93	5,150.93	0.00	0.00	0.00
12,200.00	90.30	90.00	6,967.58	-1,162.93	5,250.93	5,250.93	0.00	0.00	0.00
12,300.00	90.30	90.00	6,967.06	-1,162.93	5,350.93	5,350.93	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 15N-7A-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 15N-7A-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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)
12,400.00	90.30	90.00	6,966.54	-1,162.93	5,450.93	5,450.93	0.00	0.00	0.00
12,500.00	90.30	90.00	6,966.03	-1,162.93	5,550.93	5,550.93	0.00	0.00	0.00
12,600.00	90.30	90.00	6,965.51	-1,162.93	5,650.93	5,650.93	0.00	0.00	0.00
12,700.00	90.30	90.00	6,964.99	-1,162.93	5,750.92	5,750.92	0.00	0.00	0.00
12,800.00	90.30	90.00	6,964.47	-1,162.93	5,850.92	5,850.92	0.00	0.00	0.00
12,900.00	90.30	90.00	6,963.95	-1,162.93	5,950.92	5,950.92	0.00	0.00	0.00
13,000.00	90.30	90.00	6,963.43	-1,162.93	6,050.92	6,050.92	0.00	0.00	0.00
13,100.00	90.30	90.00	6,962.92	-1,162.93	6,150.92	6,150.92	0.00	0.00	0.00
13,200.00	90.30	90.00	6,962.40	-1,162.93	6,250.92	6,250.92	0.00	0.00	0.00
13,300.00	90.30	90.00	6,961.88	-1,162.93	6,350.92	6,350.92	0.00	0.00	0.00
13,400.00	90.30	90.00	6,961.36	-1,162.93	6,450.91	6,450.91	0.00	0.00	0.00
13,500.00	90.30	90.00	6,960.84	-1,162.93	6,550.91	6,550.91	0.00	0.00	0.00
13,600.00	90.30	90.00	6,960.32	-1,162.93	6,650.91	6,650.91	0.00	0.00	0.00
13,700.00	90.30	90.00	6,959.81	-1,162.93	6,750.91	6,750.91	0.00	0.00	0.00
13,800.00	90.30	90.00	6,959.29	-1,162.93	6,850.91	6,850.91	0.00	0.00	0.00
13,900.00	90.30	90.00	6,958.77	-1,162.93	6,950.91	6,950.91	0.00	0.00	0.00
14,000.00	90.30	90.00	6,958.25	-1,162.93	7,050.91	7,050.91	0.00	0.00	0.00
14,100.00	90.30	90.00	6,957.73	-1,162.93	7,150.91	7,150.91	0.00	0.00	0.00
14,200.00	90.30	90.00	6,957.21	-1,162.93	7,250.90	7,250.90	0.00	0.00	0.00
14,300.00	90.30	90.00	6,956.70	-1,162.93	7,350.90	7,350.90	0.00	0.00	0.00
14,400.00	90.30	90.00	6,956.18	-1,162.93	7,450.90	7,450.90	0.00	0.00	0.00
14,500.00	90.30	90.00	6,955.66	-1,162.93	7,550.90	7,550.90	0.00	0.00	0.00
14,600.00	90.30	90.00	6,955.14	-1,162.93	7,650.90	7,650.90	0.00	0.00	0.00
14,700.00	90.30	90.00	6,954.62	-1,162.93	7,750.90	7,750.90	0.00	0.00	0.00
14,800.00	90.30	90.00	6,954.10	-1,162.93	7,850.90	7,850.90	0.00	0.00	0.00
14,900.00	90.30	90.00	6,953.59	-1,162.93	7,950.89	7,950.89	0.00	0.00	0.00
15,000.00	90.30	90.00	6,953.07	-1,162.93	8,050.89	8,050.89	0.00	0.00	0.00
15,100.00	90.30	90.00	6,952.55	-1,162.93	8,150.89	8,150.89	0.00	0.00	0.00
15,200.00	90.30	90.00	6,952.03	-1,162.93	8,250.89	8,250.89	0.00	0.00	0.00
15,205.85	90.30	90.00	6,952.00	-1,162.93	8,256.74	8,256.74	0.00	0.00	0.00
TD at 15205.98 - 15N-7A-M(138 FSL 2090 FEL)PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
15N-7A-M(138 FSL 2090) - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	6,952.00	-1,162.93	8,256.74	1,424,476.26	3,221,256.25	40.4958640	-104.7044370

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,723.92	1,700.00	9 5/8"	9.625	13.500	

Database:	Casper District	Local Co-ordinate Reference:	Well Fagerberg 15N-7A-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 15N-7A-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,836.59	3,756.00	Parkman				
4,376.06	4,281.00	Sussex				
4,929.92	4,820.00	Base of Fox Hills				
5,064.53	4,951.00	Shannon				
6,099.24	5,969.00	Lower Pierre				
7,135.25	6,898.00	Sharon Springs				
7,206.99	6,932.00	Nio A Chalk				
7,261.61	6,953.00	Nio A Marl				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.00	200.00	0.00	0.00	Start Build 1.50	
400.00	399.91	-0.91	-5.16	Start DLS 2.00 TFO -98.84	
1,071.83	1,065.40	-77.68	-28.27	Start 4393.37 hold at 1071.83 MD	
5,465.20	5,340.92	-1,086.25	-94.93	Start Drop -2.00	
6,130.37	6,000.14	-1,162.93	-100.00	Start 355.39 hold at 6130.37 MD	
6,485.76	6,355.53	-1,162.93	-100.00	Start DLS 9.00 TFO 90.00	
7,489.06	6,992.00	-1,162.93	540.05	Start 7716.92 hold at 7489.06 MD	
15,205.85	6,952.00	-1,162.93	8,256.74	TD at 15205.98	