



Project: SEC 12-13 T6N R66W
Site: Falken 9-11 PAD
Well: Falken 32N-9B-L
Wellbore: OH
Design: Plan #1

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	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	
924.00	12.48	72.50	919.08	20.35	64.56	2.00	72.50	-64.56	
6439.09	12.48	72.50	6303.85	378.74	1201.20	0.00	0.00	-1201.33	
7571.20	89.99	269.98	7070.00	429.46	578.29	9.00	-162.12	-578.44	
18858.54	89.99	269.98	7071.00	425.66	-10709.05	0.00	0.00	10708.90	PBHL_Falken 32N-9B-L

PROJECT DETAILS: SEC 12-13 T6N R66W

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

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
TOP_Falken 32N-9B-L	7070.00	387.27	578.71	1426576.40	3213060.11	40.5018190	-104.7338640	Point
- plan misses target center by 42.19ft at 7570.74ft MD (7070.00 TVD, 429.46 N, 578.74 E)								
PBHL_Falken 32N-9B-L	7071.00	425.66	-10709.05	1426517.53	3201772.44	40.5019180	-104.7744540	Point
- plan hits target center								

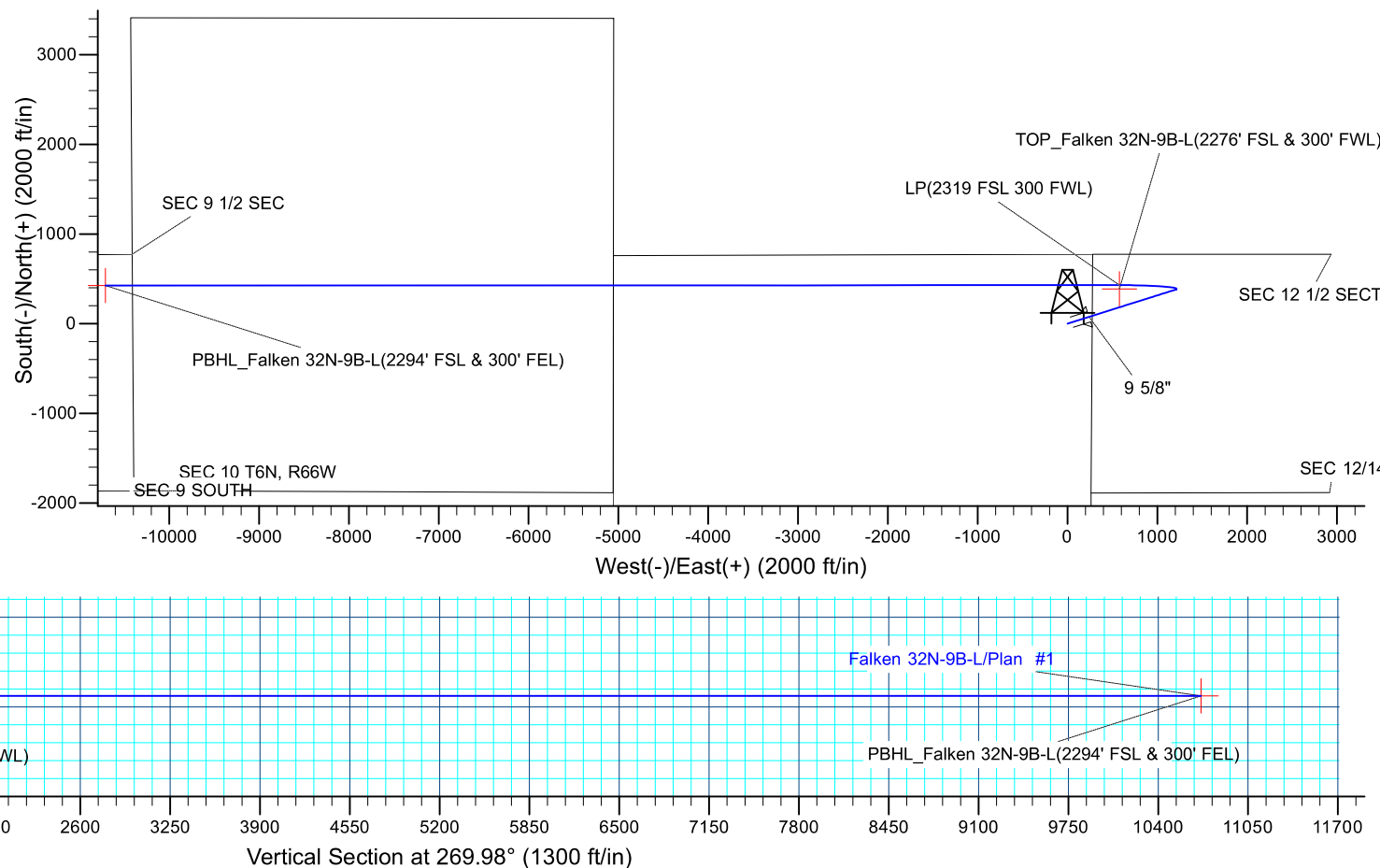
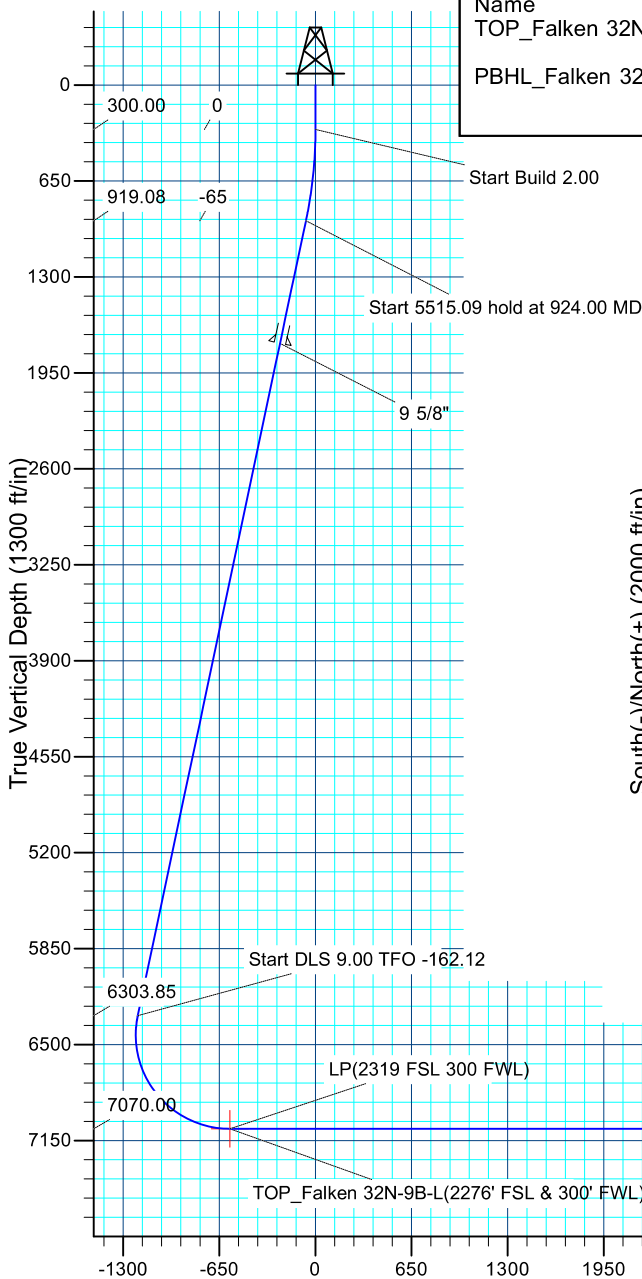
CASING DETAILS

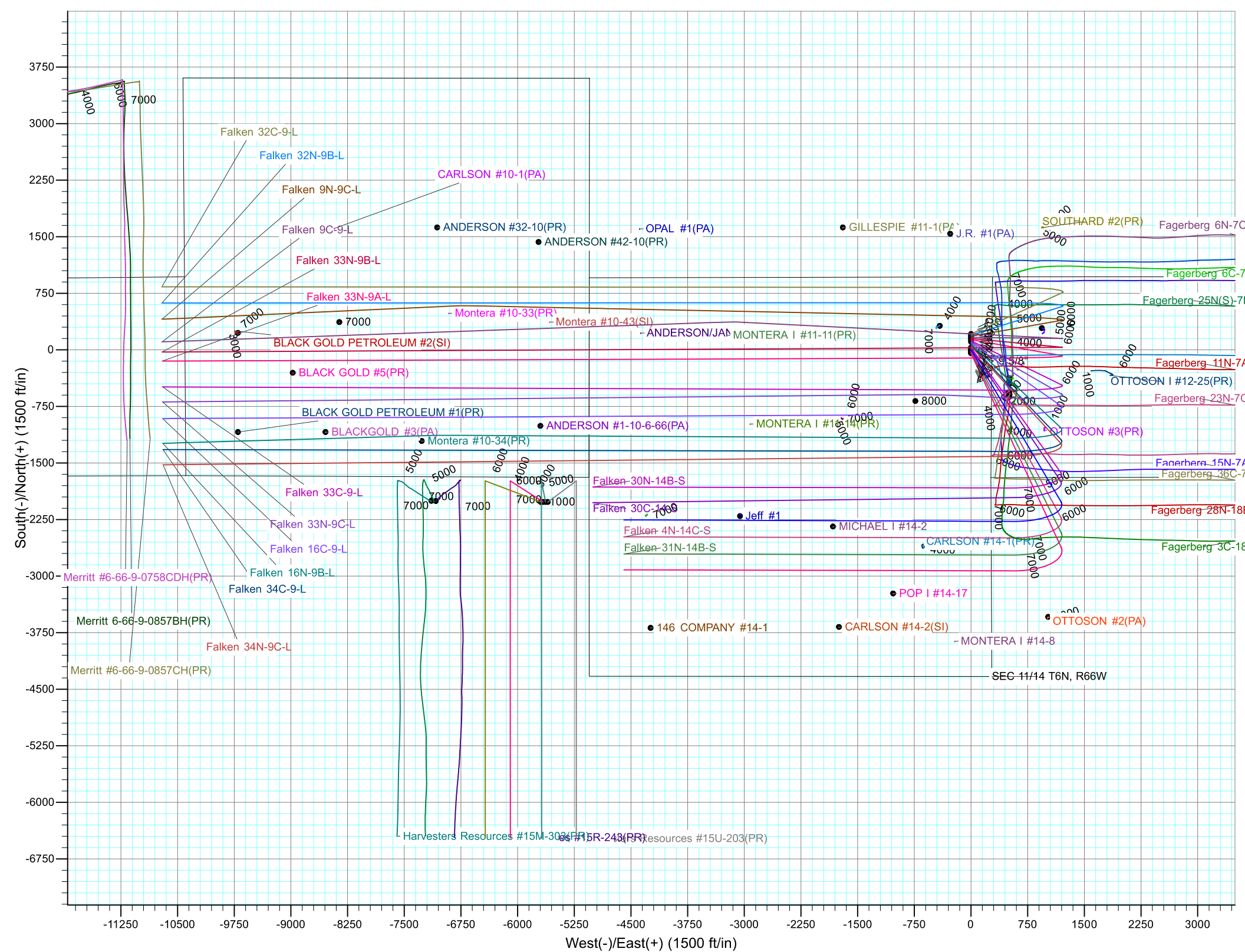
TVD	MD	Name	Size
1750.00	1775.03	9 5/8"	9.625

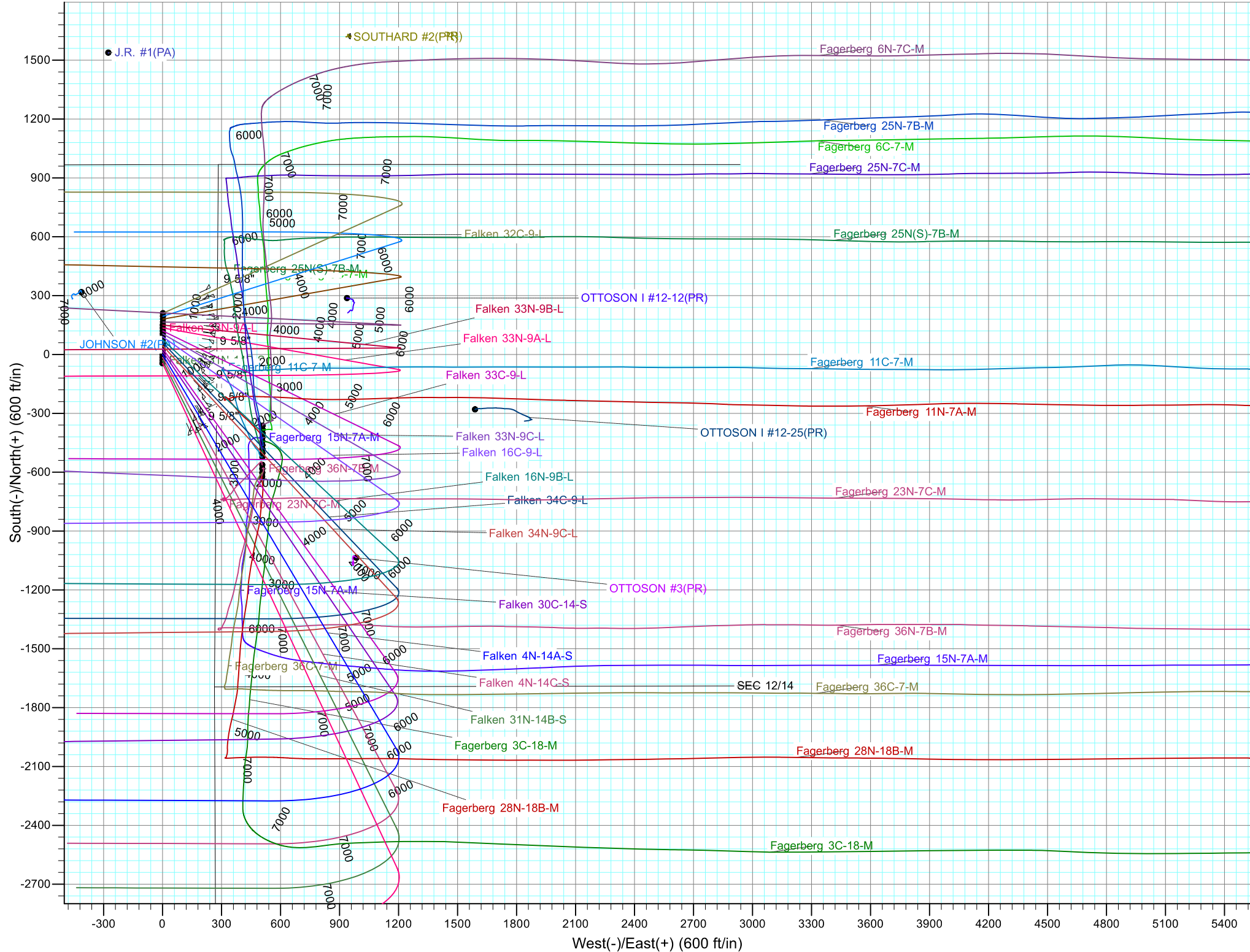


Azimuths to True North
Magnetic North: 8.22°

Magnetic Field
Strength: 52465.5snT
Dip Angle: 66.94°
Date: 4/21/2017
Model: IGRF2015









Synergy Resources Corporation

SEC 12-13 T6N R66W

Falken 9-11 PAD

Falken 32N-9B-L

OH

Plan: Plan #1

Standard Planning Report

25 April, 2017



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 32N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 32N-9B-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	SEC 12-13 T6N R66W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Falken 9-11 PAD			
Site Position:		Northing:	1,426,199.10 ft	Latitude:	40.5007970
From:	Lat/Long	Easting:	3,212,484.63 ft	Longitude:	-104.7359450
Position Uncertainty:	3.28 ft	Slot Radius:	13.200 in	Grid Convergence:	0.49 °

Well	Falken 32N-9B-L, 1889' FSL & 276' FEL					
Well Position	+N/-S	-14.94 ft	Northing:	1,426,184.16 ft	Latitude:	40.5007560
	+E/-W	0.00 ft	Easting:	3,212,484.76 ft	Longitude:	-104.7359450
Position Uncertainty		3.28 ft	Wellhead Elevation:		Ground Level:	4,810.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/21/2017	8.22	66.94	52,465

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	269.98

Plan Survey Tool Program	Date	4/24/2017		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,858.29 Plan #1 (OH)	MWD+IFR1	
			OWSG MWD + IFR1	

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
924.00	12.48	72.50	919.08	20.35	64.56	2.00	2.00	0.00	72.50	
6,439.09	12.48	72.50	6,303.85	378.74	1,201.20	0.00	0.00	0.00	0.00	
7,571.20	89.99	269.98	7,070.00	429.46	578.29	9.00	6.85	-14.36	-162.12	
18,858.54	89.99	269.98	7,071.00	425.66	-10,709.05	0.00	0.00	0.00	0.00	PBHL_Falken 32N-9E

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 32N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 32N-9B-L	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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	72.50	399.98	0.52	1.66	-1.66	2.00	2.00	0.00
500.00	4.00	72.50	499.84	2.10	6.66	-6.66	2.00	2.00	0.00
600.00	6.00	72.50	599.45	4.72	14.97	-14.97	2.00	2.00	0.00
700.00	8.00	72.50	698.70	8.38	26.59	-26.59	2.00	2.00	0.00
800.00	10.00	72.50	797.47	13.09	41.51	-41.51	2.00	2.00	0.00
900.00	12.00	72.50	895.62	18.82	59.71	-59.71	2.00	2.00	0.00
924.00	12.48	72.50	919.08	20.35	64.56	-64.56	2.00	2.00	0.00
Start 5515.09 hold at 924.00 MD									
1,000.00	12.48	72.50	993.28	25.29	80.22	-80.23	0.00	0.00	0.00
1,100.00	12.48	72.50	1,090.92	31.79	100.83	-100.84	0.00	0.00	0.00
1,200.00	12.48	72.50	1,188.56	38.29	121.44	-121.45	0.00	0.00	0.00
1,300.00	12.48	72.50	1,286.19	44.79	142.05	-142.07	0.00	0.00	0.00
1,400.00	12.48	72.50	1,383.83	51.29	162.66	-162.68	0.00	0.00	0.00
1,500.00	12.48	72.50	1,481.47	57.78	183.27	-183.29	0.00	0.00	0.00
1,600.00	12.48	72.50	1,579.10	64.28	203.88	-203.90	0.00	0.00	0.00
1,700.00	12.48	72.50	1,676.74	70.78	224.49	-224.51	0.00	0.00	0.00
1,775.03	12.48	72.50	1,750.00	75.66	239.95	-239.98	0.00	0.00	0.00
9 5/8"									
1,800.00	12.48	72.50	1,774.38	77.28	245.10	-245.13	0.00	0.00	0.00
1,900.00	12.48	72.50	1,872.02	83.78	265.71	-265.74	0.00	0.00	0.00
2,000.00	12.48	72.50	1,969.65	90.28	286.32	-286.35	0.00	0.00	0.00
2,100.00	12.48	72.50	2,067.29	96.77	306.93	-306.96	0.00	0.00	0.00
2,200.00	12.48	72.50	2,164.93	103.27	327.54	-327.57	0.00	0.00	0.00
2,300.00	12.48	72.50	2,262.56	109.77	348.15	-348.19	0.00	0.00	0.00
2,400.00	12.48	72.50	2,360.20	116.27	368.76	-368.80	0.00	0.00	0.00
2,500.00	12.48	72.50	2,457.84	122.77	389.37	-389.41	0.00	0.00	0.00
2,600.00	12.48	72.50	2,555.48	129.27	409.98	-410.02	0.00	0.00	0.00
2,700.00	12.48	72.50	2,653.11	135.76	430.59	-430.63	0.00	0.00	0.00
2,800.00	12.48	72.50	2,750.75	142.26	451.20	-451.25	0.00	0.00	0.00
2,900.00	12.48	72.50	2,848.39	148.76	471.81	-471.86	0.00	0.00	0.00
3,000.00	12.48	72.50	2,946.02	155.26	492.42	-492.47	0.00	0.00	0.00
3,100.00	12.48	72.50	3,043.66	161.76	513.03	-513.08	0.00	0.00	0.00
3,200.00	12.48	72.50	3,141.30	168.25	533.63	-533.69	0.00	0.00	0.00
3,300.00	12.48	72.50	3,238.94	174.75	554.24	-554.31	0.00	0.00	0.00
3,400.00	12.48	72.50	3,336.57	181.25	574.85	-574.92	0.00	0.00	0.00
3,500.00	12.48	72.50	3,434.21	187.75	595.46	-595.53	0.00	0.00	0.00
3,600.00	12.48	72.50	3,531.85	194.25	616.07	-616.14	0.00	0.00	0.00
3,700.00	12.48	72.50	3,629.48	200.75	636.68	-636.75	0.00	0.00	0.00
3,800.00	12.48	72.50	3,727.12	207.24	657.29	-657.37	0.00	0.00	0.00
3,900.00	12.48	72.50	3,824.76	213.74	677.90	-677.98	0.00	0.00	0.00
4,000.00	12.48	72.50	3,922.40	220.24	698.51	-698.59	0.00	0.00	0.00
4,100.00	12.48	72.50	4,020.03	226.74	719.12	-719.20	0.00	0.00	0.00
4,200.00	12.48	72.50	4,117.67	233.24	739.73	-739.81	0.00	0.00	0.00
4,300.00	12.48	72.50	4,215.31	239.73	760.34	-760.43	0.00	0.00	0.00
4,400.00	12.48	72.50	4,312.94	246.23	780.95	-781.04	0.00	0.00	0.00
4,500.00	12.48	72.50	4,410.58	252.73	801.56	-801.65	0.00	0.00	0.00
4,600.00	12.48	72.50	4,508.22	259.23	822.17	-822.26	0.00	0.00	0.00
4,700.00	12.48	72.50	4,605.86	265.73	842.78	-842.87	0.00	0.00	0.00

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Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 32N-9B-L	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)
4,800.00	12.48	72.50	4,703.49	272.23	863.39	-863.49	0.00	0.00	0.00
4,900.00	12.48	72.50	4,801.13	278.72	884.00	-884.10	0.00	0.00	0.00
5,000.00	12.48	72.50	4,898.77	285.22	904.61	-904.71	0.00	0.00	0.00
5,100.00	12.48	72.50	4,996.40	291.72	925.22	-925.32	0.00	0.00	0.00
5,200.00	12.48	72.50	5,094.04	298.22	945.83	-945.93	0.00	0.00	0.00
5,300.00	12.48	72.50	5,191.68	304.72	966.44	-966.54	0.00	0.00	0.00
5,400.00	12.48	72.50	5,289.32	311.22	987.05	-987.16	0.00	0.00	0.00
5,500.00	12.48	72.50	5,386.95	317.71	1,007.66	-1,007.77	0.00	0.00	0.00
5,600.00	12.48	72.50	5,484.59	324.21	1,028.27	-1,028.38	0.00	0.00	0.00
5,700.00	12.48	72.50	5,582.23	330.71	1,048.88	-1,048.99	0.00	0.00	0.00
5,800.00	12.48	72.50	5,679.87	337.21	1,069.49	-1,069.60	0.00	0.00	0.00
5,900.00	12.48	72.50	5,777.50	343.71	1,090.10	-1,090.22	0.00	0.00	0.00
6,000.00	12.48	72.50	5,875.14	350.20	1,110.71	-1,110.83	0.00	0.00	0.00
6,100.00	12.48	72.50	5,972.78	356.70	1,131.32	-1,131.44	0.00	0.00	0.00
6,200.00	12.48	72.50	6,070.41	363.20	1,151.93	-1,152.05	0.00	0.00	0.00
6,300.00	12.48	72.50	6,168.05	369.70	1,172.54	-1,172.66	0.00	0.00	0.00
6,400.00	12.48	72.50	6,265.69	376.20	1,193.15	-1,193.28	0.00	0.00	0.00
6,439.09	12.48	72.50	6,303.85	378.74	1,201.20	-1,201.33	0.00	0.00	0.00
Start DLS 9.00 TFO -162.12									
6,500.00	7.45	59.43	6,363.83	382.73	1,210.89	-1,211.02	9.00	-8.25	-21.46
6,600.00	4.60	325.72	6,463.45	389.35	1,214.22	-1,214.35	9.00	-2.85	-93.71
6,700.00	12.19	287.91	6,562.37	395.92	1,201.89	-1,202.03	9.00	7.59	-37.81
6,800.00	20.92	280.00	6,658.14	402.28	1,174.21	-1,174.35	9.00	8.73	-7.91
6,900.00	29.81	276.64	6,748.42	408.27	1,131.85	-1,131.99	9.00	8.89	-3.35
7,000.00	38.75	274.73	6,830.97	413.74	1,075.86	-1,076.00	9.00	8.94	-1.91
7,100.00	47.70	273.45	6,903.77	418.55	1,007.62	-1,007.76	9.00	8.96	-1.28
7,200.00	56.67	272.49	6,965.01	422.60	928.80	-928.95	9.00	8.97	-0.96
7,300.00	65.64	271.70	7,013.20	425.77	841.35	-841.50	9.00	8.97	-0.78
7,400.00	74.62	271.03	7,047.15	428.00	747.43	-747.58	9.00	8.98	-0.68
7,500.00	83.60	270.41	7,066.02	429.22	649.34	-649.49	9.00	8.98	-0.62
7,570.63	89.94	269.98	7,070.00	429.46	578.85	-579.00	9.00	8.98	-0.60
TOP_Falken 32N-9B-L(2276' FSL & 300' FWL)									
7,571.20	89.99	269.98	7,070.00	429.46	578.29	-578.44	9.00	8.98	-0.60
LP(2319 FSL 300 FWL)									
7,600.00	89.99	269.98	7,070.00	429.45	549.49	-549.64	0.00	0.00	0.00
7,700.00	89.99	269.98	7,070.01	429.42	449.49	-449.64	0.00	0.00	0.00
7,800.00	89.99	269.98	7,070.02	429.38	349.49	-349.64	0.00	0.00	0.00
7,900.00	89.99	269.98	7,070.03	429.35	249.49	-249.64	0.00	0.00	0.00
8,000.00	89.99	269.98	7,070.04	429.31	149.49	-149.64	0.00	0.00	0.00
8,100.00	89.99	269.98	7,070.05	429.28	49.49	-49.64	0.00	0.00	0.00
8,200.00	89.99	269.98	7,070.05	429.25	-50.51	50.36	0.00	0.00	0.00
8,300.00	89.99	269.98	7,070.06	429.21	-150.51	150.36	0.00	0.00	0.00
8,400.00	89.99	269.98	7,070.07	429.18	-250.51	250.36	0.00	0.00	0.00
8,500.00	89.99	269.98	7,070.08	429.15	-350.51	350.36	0.00	0.00	0.00
8,600.00	89.99	269.98	7,070.09	429.11	-450.51	450.36	0.00	0.00	0.00
8,700.00	89.99	269.98	7,070.10	429.08	-550.51	550.36	0.00	0.00	0.00
8,800.00	89.99	269.98	7,070.11	429.05	-650.51	650.36	0.00	0.00	0.00
8,900.00	89.99	269.98	7,070.12	429.01	-750.51	750.36	0.00	0.00	0.00
9,000.00	89.99	269.98	7,070.13	428.98	-850.51	850.36	0.00	0.00	0.00
9,100.00	89.99	269.98	7,070.13	428.94	-950.51	950.36	0.00	0.00	0.00
9,200.00	89.99	269.98	7,070.14	428.91	-1,050.51	1,050.36	0.00	0.00	0.00
9,300.00	89.99	269.98	7,070.15	428.88	-1,150.51	1,150.36	0.00	0.00	0.00
9,400.00	89.99	269.98	7,070.16	428.84	-1,250.51	1,250.36	0.00	0.00	0.00

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Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 32N-9B-L	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)
9,500.00	89.99	269.98	7,070.17	428.81	-1,350.51	1,350.36	0.00	0.00	0.00
9,600.00	89.99	269.98	7,070.18	428.78	-1,450.51	1,450.36	0.00	0.00	0.00
9,700.00	89.99	269.98	7,070.19	428.74	-1,550.51	1,550.36	0.00	0.00	0.00
9,800.00	89.99	269.98	7,070.20	428.71	-1,650.51	1,650.36	0.00	0.00	0.00
9,900.00	89.99	269.98	7,070.21	428.67	-1,750.51	1,750.36	0.00	0.00	0.00
10,000.00	89.99	269.98	7,070.21	428.64	-1,850.51	1,850.36	0.00	0.00	0.00
10,100.00	89.99	269.98	7,070.22	428.61	-1,950.51	1,950.36	0.00	0.00	0.00
10,200.00	89.99	269.98	7,070.23	428.57	-2,050.51	2,050.36	0.00	0.00	0.00
10,300.00	89.99	269.98	7,070.24	428.54	-2,150.51	2,150.36	0.00	0.00	0.00
10,400.00	89.99	269.98	7,070.25	428.51	-2,250.51	2,250.36	0.00	0.00	0.00
10,500.00	89.99	269.98	7,070.26	428.47	-2,350.51	2,350.36	0.00	0.00	0.00
10,600.00	89.99	269.98	7,070.27	428.44	-2,450.51	2,450.36	0.00	0.00	0.00
10,700.00	89.99	269.98	7,070.28	428.41	-2,550.51	2,550.36	0.00	0.00	0.00
10,800.00	89.99	269.98	7,070.28	428.37	-2,650.51	2,650.36	0.00	0.00	0.00
10,900.00	89.99	269.98	7,070.29	428.34	-2,750.51	2,750.36	0.00	0.00	0.00
11,000.00	89.99	269.98	7,070.30	428.30	-2,850.51	2,850.36	0.00	0.00	0.00
11,100.00	89.99	269.98	7,070.31	428.27	-2,950.51	2,950.36	0.00	0.00	0.00
11,200.00	89.99	269.98	7,070.32	428.24	-3,050.51	3,050.36	0.00	0.00	0.00
11,300.00	89.99	269.98	7,070.33	428.20	-3,150.51	3,150.36	0.00	0.00	0.00
11,400.00	89.99	269.98	7,070.34	428.17	-3,250.51	3,250.36	0.00	0.00	0.00
11,500.00	89.99	269.98	7,070.35	428.14	-3,350.51	3,350.36	0.00	0.00	0.00
11,600.00	89.99	269.98	7,070.36	428.10	-3,450.51	3,450.36	0.00	0.00	0.00
11,700.00	89.99	269.98	7,070.36	428.07	-3,550.51	3,550.36	0.00	0.00	0.00
11,800.00	89.99	269.98	7,070.37	428.03	-3,650.51	3,650.36	0.00	0.00	0.00
11,900.00	89.99	269.98	7,070.38	428.00	-3,750.51	3,750.36	0.00	0.00	0.00
12,000.00	89.99	269.98	7,070.39	427.97	-3,850.51	3,850.36	0.00	0.00	0.00
12,100.00	89.99	269.98	7,070.40	427.93	-3,950.51	3,950.36	0.00	0.00	0.00
12,200.00	89.99	269.98	7,070.41	427.90	-4,050.51	4,050.36	0.00	0.00	0.00
12,300.00	89.99	269.98	7,070.42	427.87	-4,150.51	4,150.36	0.00	0.00	0.00
12,400.00	89.99	269.98	7,070.43	427.83	-4,250.51	4,250.36	0.00	0.00	0.00
12,500.00	89.99	269.98	7,070.44	427.80	-4,350.51	4,350.36	0.00	0.00	0.00
12,600.00	89.99	269.98	7,070.44	427.77	-4,450.51	4,450.36	0.00	0.00	0.00
12,700.00	89.99	269.98	7,070.45	427.73	-4,550.51	4,550.36	0.00	0.00	0.00
12,800.00	89.99	269.98	7,070.46	427.70	-4,650.51	4,650.36	0.00	0.00	0.00
12,900.00	89.99	269.98	7,070.47	427.66	-4,750.51	4,750.36	0.00	0.00	0.00
13,000.00	89.99	269.98	7,070.48	427.63	-4,850.51	4,850.36	0.00	0.00	0.00
13,100.00	89.99	269.98	7,070.49	427.60	-4,950.51	4,950.36	0.00	0.00	0.00
13,200.00	89.99	269.98	7,070.50	427.56	-5,050.51	5,050.36	0.00	0.00	0.00
13,300.00	89.99	269.98	7,070.51	427.53	-5,150.51	5,150.36	0.00	0.00	0.00
13,400.00	89.99	269.98	7,070.52	427.50	-5,250.51	5,250.36	0.00	0.00	0.00
13,500.00	89.99	269.98	7,070.52	427.46	-5,350.51	5,350.36	0.00	0.00	0.00
13,600.00	89.99	269.98	7,070.53	427.43	-5,450.51	5,450.36	0.00	0.00	0.00
13,700.00	89.99	269.98	7,070.54	427.39	-5,550.51	5,550.36	0.00	0.00	0.00
13,800.00	89.99	269.98	7,070.55	427.36	-5,650.51	5,650.36	0.00	0.00	0.00
13,900.00	89.99	269.98	7,070.56	427.33	-5,750.51	5,750.36	0.00	0.00	0.00
14,000.00	89.99	269.98	7,070.57	427.29	-5,850.51	5,850.36	0.00	0.00	0.00
14,100.00	89.99	269.98	7,070.58	427.26	-5,950.51	5,950.36	0.00	0.00	0.00
14,200.00	89.99	269.98	7,070.59	427.23	-6,050.51	6,050.36	0.00	0.00	0.00
14,300.00	89.99	269.98	7,070.60	427.19	-6,150.51	6,150.36	0.00	0.00	0.00
14,400.00	89.99	269.98	7,070.60	427.16	-6,250.51	6,250.36	0.00	0.00	0.00
14,500.00	89.99	269.98	7,070.61	427.13	-6,350.51	6,350.36	0.00	0.00	0.00
14,600.00	89.99	269.98	7,070.62	427.09	-6,450.51	6,450.36	0.00	0.00	0.00
14,700.00	89.99	269.98	7,070.63	427.06	-6,550.51	6,550.36	0.00	0.00	0.00
14,800.00	89.99	269.98	7,070.64	427.02	-6,650.51	6,650.36	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 32N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 32N-9B-L	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)
14,900.00	89.99	269.98	7,070.65	426.99	-6,750.51	6,750.36	0.00	0.00	0.00
15,000.00	89.99	269.98	7,070.66	426.96	-6,850.51	6,850.36	0.00	0.00	0.00
15,100.00	89.99	269.98	7,070.67	426.92	-6,950.51	6,950.36	0.00	0.00	0.00
15,200.00	89.99	269.98	7,070.68	426.89	-7,050.51	7,050.36	0.00	0.00	0.00
15,300.00	89.99	269.98	7,070.68	426.86	-7,150.51	7,150.36	0.00	0.00	0.00
15,400.00	89.99	269.98	7,070.69	426.82	-7,250.51	7,250.36	0.00	0.00	0.00
15,500.00	89.99	269.98	7,070.70	426.79	-7,350.51	7,350.36	0.00	0.00	0.00
15,600.00	89.99	269.98	7,070.71	426.75	-7,450.51	7,450.36	0.00	0.00	0.00
15,700.00	89.99	269.98	7,070.72	426.72	-7,550.51	7,550.36	0.00	0.00	0.00
15,800.00	89.99	269.98	7,070.73	426.69	-7,650.51	7,650.36	0.00	0.00	0.00
15,900.00	89.99	269.98	7,070.74	426.65	-7,750.51	7,750.36	0.00	0.00	0.00
16,000.00	89.99	269.98	7,070.75	426.62	-7,850.51	7,850.36	0.00	0.00	0.00
16,100.00	89.99	269.98	7,070.76	426.59	-7,950.51	7,950.36	0.00	0.00	0.00
16,200.00	89.99	269.98	7,070.76	426.55	-8,050.51	8,050.36	0.00	0.00	0.00
16,300.00	89.99	269.98	7,070.77	426.52	-8,150.51	8,150.36	0.00	0.00	0.00
16,400.00	89.99	269.98	7,070.78	426.49	-8,250.51	8,250.36	0.00	0.00	0.00
16,500.00	89.99	269.98	7,070.79	426.45	-8,350.51	8,350.36	0.00	0.00	0.00
16,600.00	89.99	269.98	7,070.80	426.42	-8,450.51	8,450.36	0.00	0.00	0.00
16,700.00	89.99	269.98	7,070.81	426.38	-8,550.51	8,550.36	0.00	0.00	0.00
16,800.00	89.99	269.98	7,070.82	426.35	-8,650.51	8,650.36	0.00	0.00	0.00
16,900.00	89.99	269.98	7,070.83	426.32	-8,750.51	8,750.36	0.00	0.00	0.00
17,000.00	89.99	269.98	7,070.84	426.28	-8,850.51	8,850.36	0.00	0.00	0.00
17,100.00	89.99	269.98	7,070.84	426.25	-8,950.51	8,950.36	0.00	0.00	0.00
17,200.00	89.99	269.98	7,070.85	426.22	-9,050.51	9,050.36	0.00	0.00	0.00
17,300.00	89.99	269.98	7,070.86	426.18	-9,150.51	9,150.36	0.00	0.00	0.00
17,400.00	89.99	269.98	7,070.87	426.15	-9,250.51	9,250.36	0.00	0.00	0.00
17,500.00	89.99	269.98	7,070.88	426.11	-9,350.51	9,350.36	0.00	0.00	0.00
17,600.00	89.99	269.98	7,070.89	426.08	-9,450.51	9,450.36	0.00	0.00	0.00
17,700.00	89.99	269.98	7,070.90	426.05	-9,550.51	9,550.36	0.00	0.00	0.00
17,800.00	89.99	269.98	7,070.91	426.01	-9,650.51	9,650.36	0.00	0.00	0.00
17,900.00	89.99	269.98	7,070.92	425.98	-9,750.51	9,750.36	0.00	0.00	0.00
18,000.00	89.99	269.98	7,070.92	425.95	-9,850.51	9,850.36	0.00	0.00	0.00
18,100.00	89.99	269.98	7,070.93	425.91	-9,950.51	9,950.36	0.00	0.00	0.00
18,200.00	89.99	269.98	7,070.94	425.88	-10,050.51	10,050.36	0.00	0.00	0.00
18,300.00	89.99	269.98	7,070.95	425.85	-10,150.51	10,150.36	0.00	0.00	0.00
18,400.00	89.99	269.98	7,070.96	425.81	-10,250.51	10,250.36	0.00	0.00	0.00
18,500.00	89.99	269.98	7,070.97	425.78	-10,350.51	10,350.36	0.00	0.00	0.00
18,600.00	89.99	269.98	7,070.98	425.74	-10,450.51	10,450.36	0.00	0.00	0.00
18,700.00	89.99	269.98	7,070.99	425.71	-10,550.51	10,550.36	0.00	0.00	0.00
18,800.00	89.99	269.98	7,070.99	425.68	-10,650.51	10,650.36	0.00	0.00	0.00
18,858.54	89.99	269.98	7,071.00	425.66	-10,709.05	10,708.90	0.00	0.00	0.00
TD at 18858.54 - PBHL_Falken 32N-9B-L(2294' FSL & 300' FEL)									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 32N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 32N-9B-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
TOP_Falken 32N-9B-L(2	0.00	0.00	7,070.00	387.27	578.71	1,426,576.40	3,213,060.11	40.5018190	-104.7338640
- plan misses target center by 42.19ft at 7570.79ft MD (7070.00 TVD, 429.46 N, 578.70 E)									
- Point									
PBHL_Falken 32N-9B-L	0.00	0.00	7,071.00	425.66	-10,709.05	1,426,517.53	3,201,772.44	40.5019180	-104.7744540
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(ft)	(ft)		Name	(in)	(in)
1,775.03	1,750.00	9 5/8"		9.625	13.500

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
924.00	919.08	20.35	64.56	Start 5515.09 hold at 924.00 MD
6,439.09	6,303.85	378.74	1,201.20	Start DLS 9.00 TFO -162.12
7,571.20	7,070.00	429.46	578.29	LP(2319 FSL 300 FWL)
18,858.54	7,071.00	425.66	-10,709.05	TD at 18858.54